DATE 12/21/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025335

APPLICANT KATIE REED PHONE 752-4072

ADDRESS 2230 SE BAYA DR LAKE CITY FL 32025

OWNER HAROLD & BARBARA BASS PHONE 752-4072

ADDRESS 268 NW EVERETT TERR WHITE SPRINGS FL 32096

CONTRACTOR DON REED PHONE 752-4072

LOCATION OF PROPERTY 41 N, L SUWANNEE VALLEY RD, R ON EVERETT, 1ST DRIVEWAY
ON LEFT - LOOK FOR THE GATE

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 138150.00

HEATED FLOOR AREA 2763.00 TOTAL AREA 3963.00 HEIGHT 21.80 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING ESA-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE AE DEVELOPMENT PERMIT NO. 06-018

PARCEL ID 20-2S-16-01660-005 SUBDIVISION LEVINGS UNRECORDED

LOT 5 BLOCK PHASE UNIT TOTAL ACRES 13.06

000001283		CGC036224	Katie Reed
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor

CULVERT	06-1014-N	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE
ONE FOOT RISE LETTER ON FILE

Check # or Cash 6031

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by Foundation _____ date/app. by Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by Slab _____ date/app. by Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by Heat & Air Duct _____ date/app. by Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by C.O. Final _____ date/app. by Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by Pool _____ date/app. by

Reconnection _____ date/app. by Pump pole _____ date/app. by Utility Pole _____ date/app. by

M/H Pole _____ date/app. by Travel Trailer _____ date/app. by Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 659.00 CERTIFICATION FEE $ 19.82 SURCHARGE FEE $ 19.82

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ 50.00 FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 848.64

INSPECTORS OFFICE L. Hodson CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

THIS INSTRUMENT PREPARED BY
AND RETURN TO:
TITLE OFFICES, LLC
1089 SW MAIN BLVD.
LAKE CITY, FLORIDA 32025

Parcel I.D. #: ***01660-005***

Inst:2006028590 Date:12/04/2006 Time:16:04
DC,P.DeWitt Cason,Columbia County B:1103 P:2507

SPACE ABOVE THIS LINE FOR PROCESSING DATA

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713.13, Florida Statutes, the following information is provided in this Notice of Commencement. This Notice shall be void and of no force and effect if construction is not commenced within ninety (90) days after recordation.

1. Description of property: (Legal description of property, and street address if available)

268 NW EVERETT TERRACE, WHITE SPRINGS, FL 32096
TRACT #5: A PART OF THE SW1/4 OF SECTION 20, TOWNSHIP 2 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA MORE PARTICIULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SE CORNER OF THE SW1/4 OF SW1/4 OF SAID SECTION 20, AND RUN N00°18'00"W A DISTANCE OF 465.65 FEET TO THE POINT OF BEGINNING, THENCE CONTINUE N00°18'00W, A DISTANCE OF 442.88 FEET, THENCE N89°14'41"E A DISTANCE OF 1285.63 FEET TO THE WEST MAINTAINED RIGHT OF WAY LINE OF EVERETT LANE, THENCE S00°09'02"E, ALONG SAID MAINTAINED RIGHT OF WAY LINE, A DISTANCE OF 442.88 FEET, THENCE S89°14'39"W A DISTANCE OF 1284.47 FEET TO THE POINT OF BEGINNING.

2. General description of improvement: **construction of single family dwelling**

3. Owner information:
   a. Name and address:
   HAROLD L. BASS and BARBARA R. BASS
   3430 HENRY J. AVE., ST. CLOUD, FLORIDA 34772
   b. Interest in property: **Fee Simple**
   c. Name and Address of Fee Simple Titleholder (if other than owner):

4. Contractor: (Name and Address)
DON REED CONSTRUCTION
3492 E. BAYA AVE., LAKE CITY, FLORIDA 32025
Telephone Number: **(386) 752-4072**

5. Surety (if any):
   a. Name and Address:
   Telephone Number: _____
   b. Amount of Bond $_____

6. Lender: (Name and Address)
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HWY 90, P.O. BOX 2029, LAKE CITY, FL 32056
Telephone Number: **755-0600**

7. Persons within the State of Florida designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: (Name and Address)
N/A

8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: (Name and Address) **PAULA HACKER**
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HWY 90, P.O. BOX 2029, LAKE CITY, FL 32056
Telephone Number: **755-0600**

9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified) _____.

Harold L Bass {SEAL}
HAROLD L. BASS

Barbara R. Bass {SEAL}
BARBARA R. BASS

01Y-10008

Sworn to and subscribed before me this **1ST** day of **DECEMBER, 2006**, by **HAROLD L. BASS and BARBARA R. BASS**, who are personally known to me or who have produced Drivers License as identification.

Martha Bryan

Notary Public
My Commission Expires: _____

Martha Bryan
MY COMMISSION # DD232534 EXPIRES
August 10, 2007
BONDED THRU TROY FAIN INSURANCE, INC.

Inst:2006028590 Date:12/04/2006 Time:16:04
_____DC,P.DeWitt Cason,Columbia County B:1103 P:2508

Columbia County Building Permit Application

ck# 6031 Revised 9-23-04

For Office Use Only Application # 0612-10 Date Received 12/5/06 By CT Permit # 28331 / 25-335

Application Approved by - Zoning Official BLK Date 12.12.06 Plans Examiner JTH Date 12-14-06

Flood Zone AE Development Permit YES Zoning ESA-2 Land Use Plan Map Category ESA

Comments DP# 06-018

Applicants Name Katie Reed Phone 386-752-4072

Address 2230 SE Baya Dr. LAKE CITY, FL 32025

Owners Name HAROLD & BARBARA BASS Phone 386-752-4072

911 Address 216 NW EVERETT TER WHITE SPRINGS, FL 32096

Contractors Name DON REED CONSTRUCTION, INC Phone 386-7524072

Address 2230 SE BAYA DR, STE 101 LAKE CITY, FL 32025

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address MARK DISOSWAY PO BOX 868 LAKE CITY, FL 32056

Mortgage Lenders Name & Address FIRST FEDERAL 4307 US 90 WEST LAKE CITY, FL 32055

Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progressive Energy

Property ID Number 20-2S-16-01616D-005 Estimated Cost of Construction

Subdivision Name Cevings S/D Unrecorded Lot 5 Block Unit Phase

Driving Directions 41 N, TL SUWANNEE VALLEY ROAD, TR ON EVERETT, 1ST DRIVEWAY ON LEFT – LOOK FOR GATE

Type of Construction SFD - NEW CONSTRUCT. Number of Existing Dwellings on Property 0

Total Acreage 13.016 Lot Size 13.016 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 300' Side 206' Side 150' Rear 923'

Total Building Height 21'8" Number of Stories 1 Heated Floor Area 2763 TOTAL 3963 Roof Pitch 6/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNER'S AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Don Reed

DON REED

Owner Builder or Agent (including Contractor)

Contractor Signature

Contractors License Number CGC036224

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 5th day of December 2006.

Personally known ✓ or Produced Identification

Ingrid Geiger

Notary Signature

Notary Public State of Florida
Ingrid Geiger
My Commission DD385312
Expires 01/26/2009

Notice of Treatment 12325

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 5356 Bayas Ave
City Lake City Phone

Site Location: Subdivision Contractor Dan Reed
Lot # Block# Permit # 25335
Address 768 NW Everett Ter White Springs

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☑ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling		639	6 gals

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

4-4-07 (Date) 8:40 (Time) F Dan (Print Technician's Name)

Remarks:

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: Florida Pest Control 536 SE Baya DR.
City Lake City Phone 752-1703

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # 25335
Address _____

Product used	Active Ingredient	% Concentration
☑ Premise	Imidacloprid	~~0.1%~~ .05%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
~~MAIN BODY~~	~~3963~~	~~348~~	~~650~~ 505

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

~~01-19-07~~ Date

~~12 00~~ Time

~~RDC~~ Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

Inst:2004007974 Date:04/07/2004 Time:15:36
Doc Stamp-Deed : 413.00
DC,P.DeWitt Cason,Columbia County B:1011 P:2085

This Instrument Prepared by & return to:
Name: *JOYCE KIRPACH, an employee of TITLE OFFICES, LLC*
Address: *1009 SW MAIN BLVD. LAKE CITY, FLORIDA 32025*
04Y-03119JK
Parcel I.D. #: *01660-005 & 01660-006*

SPACE ABOVE THIS LINE FOR PROCESSING DATA | *SPACE ABOVE THIS LINE FOR RECORDING DATA*

THIS WARRANTY DEED *Made the 6th day of April, A.D. 2004, by*

TALQUIN HOLDINGS INC., having its principal place of business at RT 8 BOX 732, LAKE CITY, FL 32055, hereinafter called the grantor, to CARL B. WAGONER and WANDA L. WAGONER, HIS WIFE, AS TO A ½ UNDIVIDED INTEREST and HAROLD L. BASS and BARBARA R. BASS, HIS WIFE, AS TO A ½ UNDIVIDED INTEREST whose post office address is PO BOX 540874, ORLANDO, FL 32854-0874, hereinafter called the grantees:

(Wherever used herein the terms "grantor" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: That the grantor, for and in consideration of the sum of $10.00 and other valuable consideration, receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantees all that certain land situate in Columbia County, State of FLORIDA, viz:

TRACT #5: A PART OF THE SW1/4 OF SECTION 20, TOWNSHIP 2 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SE CORNER OF THE SW1/4 OF SW1/4 OF SAID SECTION 20, AND RUN N00°18'00"W A DISTANCE OF 465.65 FEET TO THE POINT OF BEGINNING, THENCE CONTINUE N00°18'00W, A DISTANCE OF 442.88 FEET, THENCE N89°14'41"E A DISTANCE OF 1285.63 FEET TO THE WEST MAINTAINED RIGHT OF WAY LINE OF EVERETT LANE, THENCE S00°09'02"E, ALONG SAID MAINTAINED RIGHT OF WAY LINE, A DISTANCE OF 442.88 FEET, THENCE S89°14'39"W A DISTANCE OF 1284.47 FEET TO THE POINT OF BEGINNING.

TRACT #6: A PART OF THE SW1/4 OF SECTION 20, TOWNSHIP 2 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SE CORNER OF THE SE1/4 OF SW1/4 OF SAID SECTION 20, AND RUN N00°18'00"W, A DISTANCE OF 908.53 FEET TO THE POINT OF BEGINNING THENCE CONTINUE N00°18'00"W, A DISTANCE OF 442.18 FEET, THENCE N89°14'42"E, A DISTANCE OF 1286.78 FEET TO THE WEST MAINTAINED RIGHT OF WAY LINE OF EVERETT LANE, THENCE S00°09'02"E, ALONG SAID MAINTAINED RIGHT OF WAY LINE , A DISTANCE OF 442.18 FEET, THENCE S89°14'41"W, A DISTANCE OF 1285.63 FEET TO THE POINT OF BEGINNING.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold the same in fee simple forever.

And the grantor hereby covenants with said grantees that it is lawfully seized of said land in fee simple; that it has good right and lawful authority to sell and convey said land, and hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2003.

Inst:2004007374 Date:04/07/2004 Time:15:28
Doc Stamp-Deed : 412.00
DC,P.DeWitt Cason,Columbia County B:1011 P:2089

In Witness Whereof, the said grantor has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its proper officers thereunto duly authorized, the day and year first above written.

Signed, sealed and delivered in the presence of:

Janet G. Fessler
Witness Signature

Janet G. Fessler
Printed Name

Brandy Sandage
Witness Signature

Brandy Sandage
Printed Name

TALQUIN HOLDINGS INC.

By: Phillip E Taylor
Name:
Title: PHILLIP E TAYLOR
VICE PRESIDENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 2nd *day of April, 2004, by* Phillip E. Taylor *as* V.P. *of* TALQUIN HOLDINGS INC., *a Florida corporation. He (she) is personally known to me or has produced* D.L. *as identification.*

Martha Bryan
Notary Public
My commission expires _____

Martha Bryan
MY COMMISSION # DD [illegible]
August 10, 2007
[illegible]

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001283

DATE 12/21/2006 PARCEL ID # 20-2S-16-01660-005

APPLICANT KATIE REED PHONE 752-4072

ADDRESS 2230 SE BAYA DR LAKE CITY FL 32025

OWNER HAROLD & BARBARA BASS PHONE 752-4072

ADDRESS 268 NW EVERETT TERR WHITE SPRINGS FL 32096

CONTRACTOR DON REED PHONE 752-4072

LOCATION OF PROPERTY 41 N, L SUWANNEE VALLEY RD, R ON EVERETT, 1ST DRIVEWAY

ON LEFT - LOOK FOR THE GATE

SUBDIVISION/LOT/BLOCK/PHASE/UNIT LEVINGS UNRECORDED 5

SIGNATURE Katie Reed

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

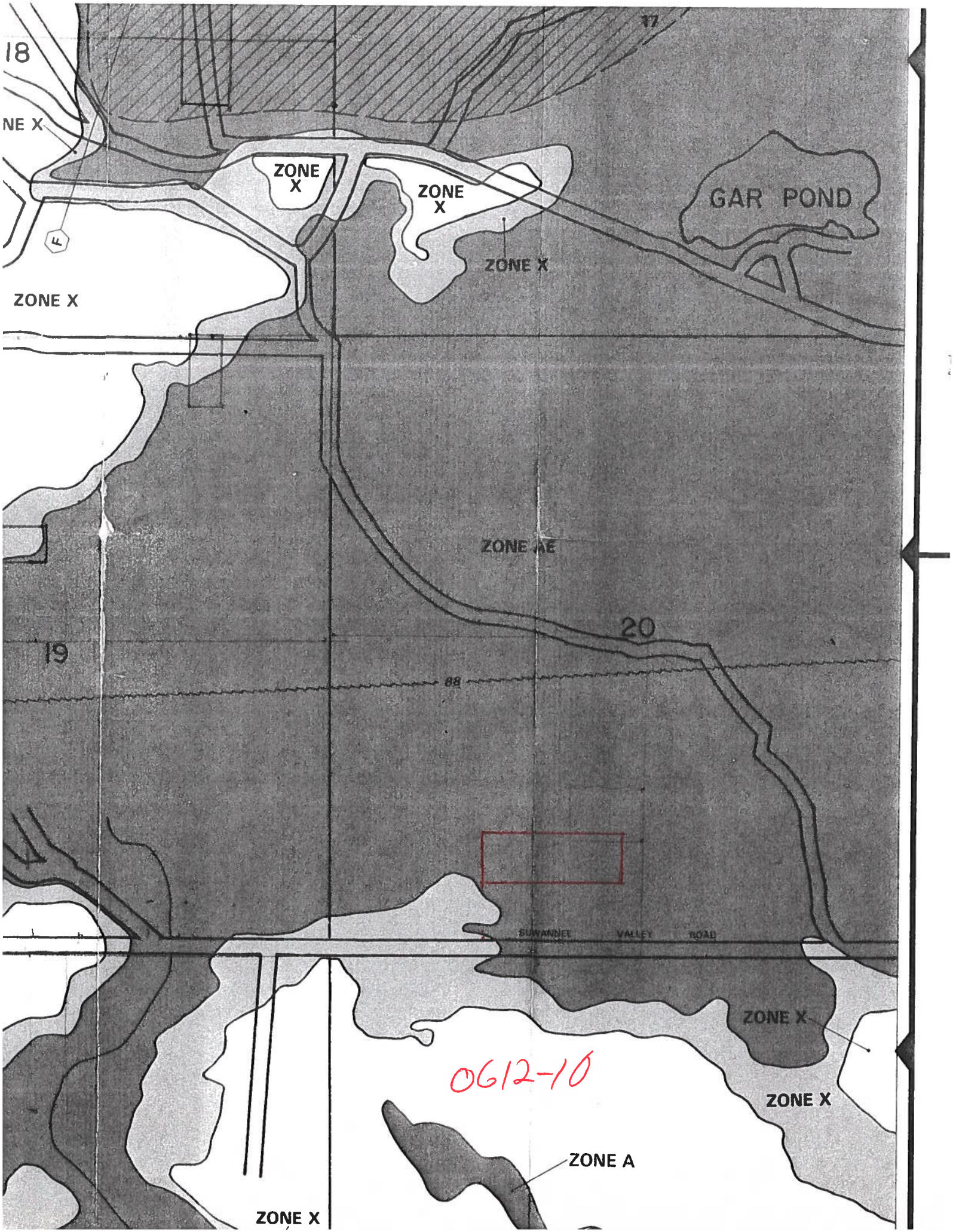
[ ] Other _____

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

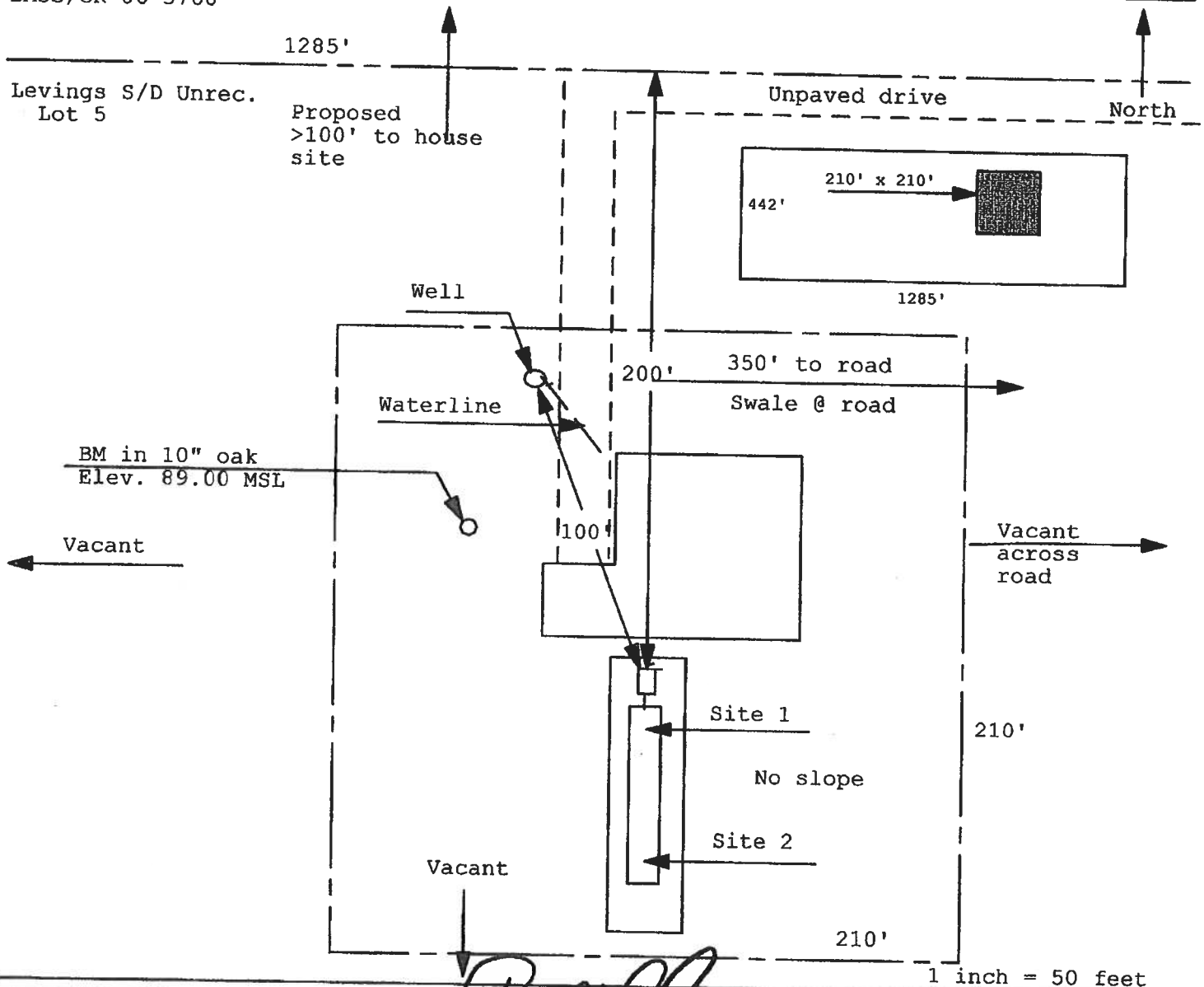

18
17
NE X
ZONE X
ZONE X
ZONE X
GAR POND
ZONE X
ZONE X
ZONE AE
20
19
SUWANNEE VALLEY ROAD
ZONE X
0612-10
ZONE X
ZONE A
ZONE X

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-1014N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

BASS/CR 06-3766



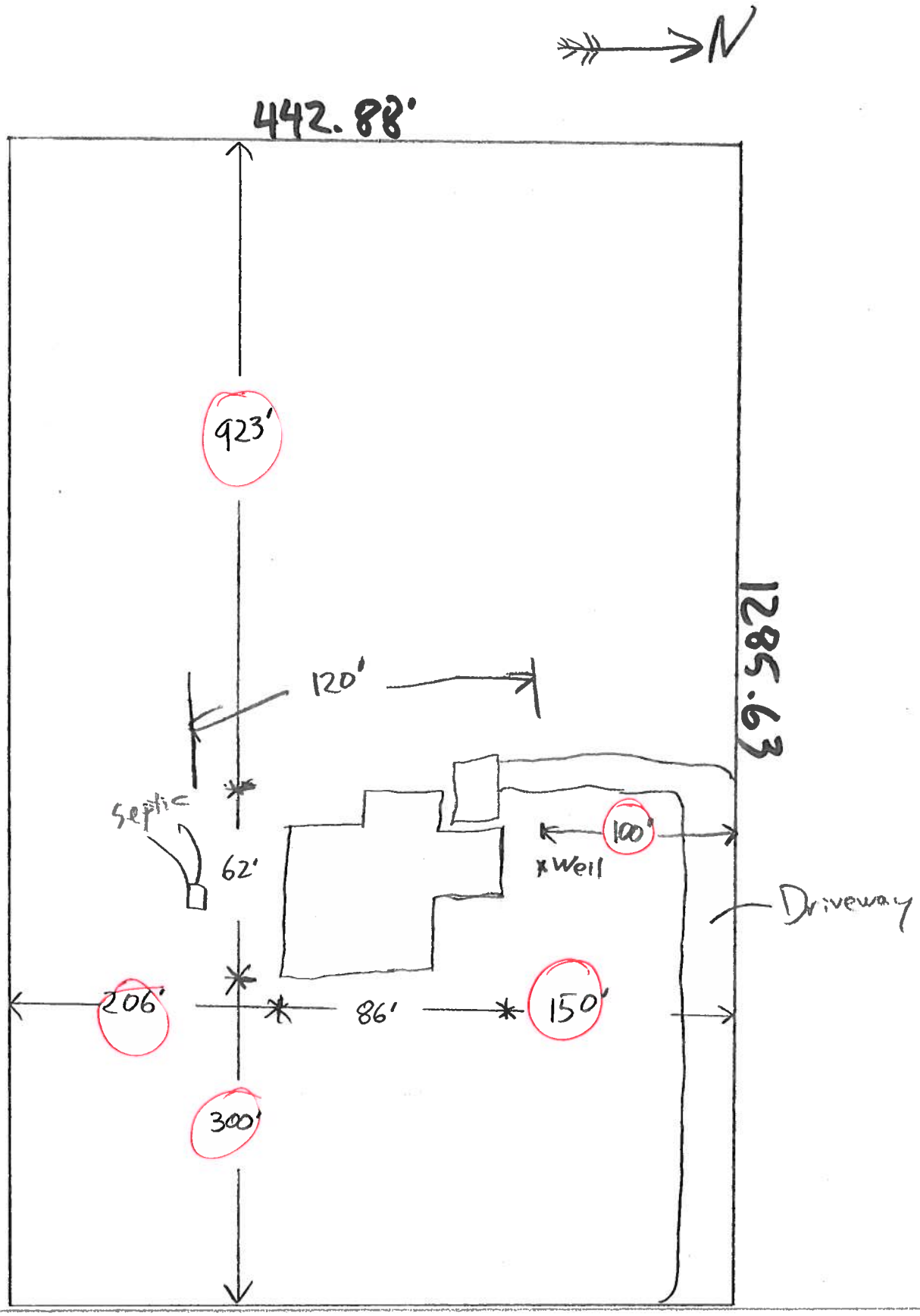
Site Plan Submitted By Paul Lloyd **Date** 11/9/06

Plan Approved X **Not Approved** ____ **Date** ____

By Sallie Gladdy EHS 12-4-06 **CPHU**

Notes:

Columbia CHD



EVERETT LANE

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 5/31/2006 **DATE ISSUED:** 6/2/2006

ENHANCED 9-1-1 ADDRESS:

268 NW EVERETT TER

WHITE SPRINGS FL 32096

PROPERTY APPRAISER PARCEL NUMBER:

20-2S-16-01660-005

Remarks:

LOT 5 LEVINGS UNR S/D

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

279

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
LAKE CITY, FLORIDA 32055
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June 12, 2002

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If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

FORM 600A-2004 EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Bass Residence**	Builder:	**Don Reed**
Address:		Permitting Office:	Columbia County
City, State:	**Lake City, FL**	Permit Number:	25335
Owner:	**Harold & Barbara Bass**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 48.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2763 ft²	13. Heating systems	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 48.0 kBtu/hr
a. U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 236.4 ft²		HSPF: 7.20
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 236.4 ft²	b. N/A	
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 264.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.92
9. Wall types		b. N/A	
a. Concrete, Int Insul, Exterior	R=5.0, 2380.0 ft²	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
b. Frame, Wood, Exterior	R=13.0, 260.0 ft²	15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	CF,
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 2763.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 120.0 ft		
b. N/A			

Glass/Floor Area: 0.12

Total as-built points: 37908

Total base points: 41341

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 8-3-06

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2635.00	10540.0	50.0	0.92	4	1.00	2635.00	1.00	10540.0	
				As-Built Total:						**10540.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
16229	**14572**	**10540**	**41341**	**10069**	**17300**	**10540**	**37908**

PASS

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,**	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**23225.7**	**Winter As-Built Points:**					**31429.4**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 48000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			31429.4	1.000	(1.069 x 1.169 x 0.93)	0.474	1.000	17299.5
23225.7	**0.6274**	**14571.8**	**31429.4**	**1.00**	**1.162**	**0.474**	**1.000**	**17299.5**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2763.0	12.74	6336.1	Double, Clear	E	1.5	7.0	108.0	18.79	1.03	2083.5	
				Double, Clear	E	9.0	7.0	36.0	18.79	1.35	915.9	
				Double, Clear	E	9.0	10.0	6.7	18.79	1.26	157.7	
				Double, Clear	E	9.0	3.0	4.0	18.79	1.51	113.3	
				Double, Clear	E	1.5	7.0	15.0	18.79	1.03	289.4	
				Double, Clear	N	1.5	7.0	36.0	24.58	1.00	886.1	
				Double, Clear	N	1.5	5.0	12.0	24.58	1.00	296.0	
				Double, Clear	W	1.5	7.0	72.0	20.73	1.02	1516.9	
				Double, Clear	W	18.0	7.0	36.0	20.73	1.23	921.0	
				Double, Clear	W	1.5	3.0	3.8	20.73	1.08	84.2	
				Double, Clear	S	1.5	7.0	15.0	13.30	1.07	214.2	
				As-Built Total:				**344.4**			**7478.3**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior			5.0	2380.0	5.70	13566.0		
Exterior	2640.0	3.70	9768.0	Frame, Wood, Exterior			13.0	260.0	3.40	884.0		
Base Total:	**2640.0**		**9768.0**	**As-Built Total:**				**2640.0**		**14450.0**		
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =	Points		
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	8.40	336.0		
Exterior	60.0	12.30	738.0	Exterior Insulated				20.0	8.40	168.0		
Base Total:	**60.0**		**738.0**	**As-Built Total:**				**60.0**		**504.0**		
CEILING TYPES	Area X	BWPM =	Points	Type		R-Value		Area X	WPM X WCM =	Points		
Under Attic	2763.0	2.05	5664.1	Under Attic			30.0	2763.0	2.05 X 1.00	5664.1		
Base Total:	**2763.0**		**5664.1**	**As-Built Total:**				**2763.0**		**5664.1**		
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Slab	264.0(p)	8.9	2349.6	Slab-On-Grade Edge Insulation			0.0	264.0(p	18.80	4963.2		
Raised	0.0	0.00	0.0									
Base Total:			**2349.6**	**As-Built Total:**				**264.0**		**4963.2**		
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =	Points		
	2763.0	-0.59	-1630.2					2763.0	-0.59	-1630.2		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 38042.9			**Summer As-Built Points:**					**35483.7**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 48000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			35484	1.00	(1.09 x 1.147 x 0.91)	0.263	0.950	10068.8
38042.9	**0.4266**	**16229.1**	**35483.7**	**1.00**	**1.138**	**0.263**	**0.950**	**10068.8**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2763.0	20.04	9966.7	Double, Clear	E	1.5	7.0	108.0	42.06	0.94	4262.7	
				Double, Clear	E	9.0	7.0	36.0	42.06	0.46	694.8	
				Double, Clear	E	9.0	10.0	6.7	42.06	0.54	152.2	
				Double, Clear	E	9.0	3.0	4.0	42.06	0.36	60.0	
				Double, Clear	E	1.5	7.0	15.0	42.06	0.94	592.0	
				Double, Clear	N	1.5	7.0	36.0	19.20	0.96	660.1	
				Double, Clear	N	1.5	5.0	12.0	19.20	0.92	210.9	
				Double, Clear	W	1.5	7.0	72.0	38.52	0.94	2604.3	
				Double, Clear	W	18.0	7.0	36.0	38.52	0.38	530.5	
				Double, Clear	W	1.5	3.0	3.8	38.52	0.73	105.4	
				Double, Clear	S	1.5	7.0	15.0	35.87	0.89	481.3	
				As-Built Total:				**344.4**			**10364.3**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =	Points		
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior			5.0	2380.0	1.00	2380.0		
Exterior	2640.0	1.70	4488.0	Frame, Wood, Exterior			13.0	260.0	1.50	390.0		
Base Total:	**2640.0**		**4488.0**	**As-Built Total:**				**2640.0**		**2770.0**		
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =	Points		
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	4.10	164.0		
Exterior	60.0	6.10	366.0	Exterior Insulated				20.0	4.10	82.0		
Base Total:	**60.0**		**366.0**	**As-Built Total:**				**60.0**		**246.0**		
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =	Points		
Under Attic	2763.0	1.73	4780.0	Under Attic			30.0	2763.0	1.73 X 1.00	4780.0		
Base Total:	**2763.0**		**4780.0**	**As-Built Total:**				**2763.0**		**4780.0**		
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =	Points		
Slab	264.0(p)	-37.0	-9768.0	Slab-On-Grade Edge Insulation			0.0	264.0(p	-41.20	-10876.8		
Raised	0.0	0.00	0.0									
Base Total:			**-9768.0**	**As-Built Total:**				**264.0**		**-10876.8**		
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =	Points		
	2763.0	10.21	28210.2					2763.0	10.21	28210.2		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.9

The higher the score, the more efficient the home.

Harold & Barbara Bass, , Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family	a.	Central Unit	Cap: 48.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4	b.	N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2763 ft²	c.	N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 236.4 ft²	a.	Electric Heat Pump	Cap: 48.0 kBtu/hr
b.	SHGC:				HSPF: 7.20
	(or Clear or Tint DEFAULT) 7b.	(Clear) 236.4 ft²	b.	N/A	
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 264.0(p) ft	c.	N/A	
b.	N/A				
c.	N/A		14.	Hot water systems	
9.	Wall types		a.	Electric Resistance	Cap: 50.0 gallons
a.	Concrete, Int Insul, Exterior	R=5.0, 2380.0 ft²			EF: 0.92
b.	Frame, Wood, Exterior	R=13.0, 260.0 ft²	b.	N/A	
c.	N/A				
d.	N/A		c.	Conservation credits	
e.	N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 2763.0 ft²	15.	HVAC credits	CF,
b.	N/A			(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 120.0 ft		MZ-C-Multizone cooling,	
b.	N/A			MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

25335

FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

O.M.B. No. 3067-0077
Expires July 31, 2002

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

BUILDING OWNER'S NAME: HAROLD & BARBARA BASS
For Insurance Company Use:
Policy Number:
Company NAIC Number:
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.: 2108 NW EVERETT TERR.
CITY: WHITE SPRINGS STATE: FL. ZIP CODE: 320
PROPERTY DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.): LOT LEVINGS S/D UNRECORED PN 20-2S-16-01660-
BUILDING USE (e.g., Residential, Non-residential, Addition, Accessory, etc. Use a Comments area, if necessary.): RESIDENTIAL
LATITUDE/LONGITUDE (OPTIONAL) (##° - ## - ##.## or ##.######) HORIZONTAL DATUM: ☐ NAD 1927 ☐ NAD 1983 SOURCE: ☐ GPS (Type): ☐ USGS Quad Map ☐ Other:

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER	B2. COUNTY NAME	B3. STATE
COLUMBIA UNICORP 120070	COLUMBIA	FL

B4. MAP AND PANEL NUMBER	B5. SUFFIX	B6. FIRM INDEX DATE	B7. FIRM PANEL EFFECTIVE/REVISED DATE	B8. FLOOD ZONE(S)	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding)
120070 0150	B	1-16-88	9-16-88	AE	88

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe):
B11. Indicate the elevation datum used for the BFE in B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe):
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date:

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Building Diagram Number 3 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)
C3. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO
Complete Items C3.a-i below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.
Datum NGVD 29 Conversion/Comments
Elevation reference mark used SITE BM Does the elevation reference mark used appear on the FIRM? ☐ Yes ☒ No

☐ a) Top of bottom floor (including basement or enclosure)	89.1	ft.(m)
☐ b) Top of next higher floor	NA	ft.(m)
☐ c) Bottom of lowest horizontal structural member (V zones only)	NA	ft.(m)
☐ d) Attached garage (top of slab)	87.3	ft.(m)
☐ e) Lowest elevation of machinery and/or equipment servicing the building (Describe in a Comments area.)	NA	ft.(m)
☐ f) Lowest adjacent (finished) grade (LAG)	84.9	ft.(m)
☐ g) Highest adjacent (finished) grade (HAG)	86	ft.(m)

☐ h) No. of permanent openings (flood vents) within 1 ft. above adjacent grade NA
☐ i) Total area of all permanent openings (flood vents) in C3.h NA sq. in. (sq. cm)

License Number, Embossed Seal, Signature, and Date: William N. Kitchen 6-21-07 PSM 5490

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information.
I certify that the information in Sections A, B, and C on this certificate represents my best efforts to interpret the data available.
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: WILLIAM N. KITCHEN LICENSE NUMBER: PLS 5490
TITLE: PROF SURVEYOR & MAPPER COMPANY NAME: WILLIAM N. KITCHEN P
ADDRESS: 152 N MARION AVE CITY: LAKE CITY STATE: FL. ZIP CODE: 32055
SIGNATURE: William N. Kitchen DATE: 6-21-07 TELEPHONE: 386 755-77

HAROLD & BARBARA BASS

IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO. 2108 NW EVERETT TERR	Policy Number
CITY WHITE SPRING STATE FL ZIP CODE	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

COMMENTS

|__| Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zone AO and Zone A (without BFE), complete Items E1. through E4. If the Elevation Certificate is intended for use as supporting information for a LOMA or LOMR-F, Section C must be completed.

E1. Building Diagram Number _____ (Select the building diagram most similar to the building for which this certificate is being completed – see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

E2. The top of the bottom floor (including basement or enclosure) of the building is |__|__| ft.(m) |__|__|in.(cm) |__| above or |__| below (check one) the highest adjacent grade. (Use natural grade, if available.)

E3. For Building Diagrams 6-8 with openings (see page 7), the next higher floor or elevated floor (elevation b) of the building is | | | ft.(m) | |__|in.(cm) above the highest adjacent grade. Complete Items C3.h and C3.i on front of form.

E4. For Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? |__| Yes |__| No | | Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE)

The property owner or owner's authorized representative who completes Sections A, B, C (Items C3.h and C3.i only), and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, C, and E are correct to the best of my knowledge.*

PROPERTY OWNER'S OR OWNER'S AUTHORIZED REPRESENTATIVE'S NAME

ADDRESS CITY STATE ZIP CODE

SIGNATURE DATE TELEPHONE

COMMENTS

|__| Check here if attachments

SECTION G

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or F), and G of this Elevation Certificate. Complete the applicable item(s) and sign below.

G1. |__| The information in Section C was taken from other documentation that has been signed and embossed by a licensed surveyor, engineer, or architect who is authorized by state or local law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. |__| A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. |__| The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED	G6. DATE CERTIFICATE OF COMPLIANCE/OCCUPANCY ISSUED

G7. This permit has been issued for: |_| New Construction | | Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building is: _____ . ___ ft.(m) Datum: _____

G9. BFE or (in Zone AO) depth of flooding at the building site is: _____ . ___ ft.(m) Datum: _____

LOCAL OFFICIAL'S NAME TITLE

COMMUNITY NAME TELEPHONE

SIGNATURE DATE

COMMENTS

|__| Check here if attachments

BUILDING DIAGRAMS

The following eight diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item C2. and the elevations in Items C3.a-C3.g.

In A zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, the floor elevation is taken at the bottom of the lowest horizontal structural member (see drawing in instructions for Section C).

DIAGRAM 1

All slab-on-grade single- and multiple-floor buildings (other than split-level) and high-rise buildings, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor is at or above ground level (grade) on at least one side. *

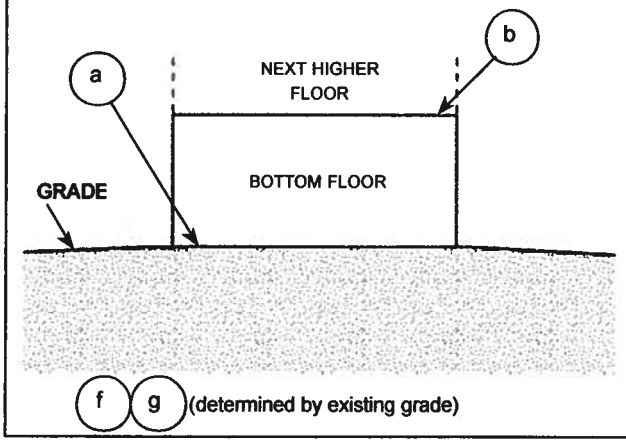


DIAGRAM 2

All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram.*

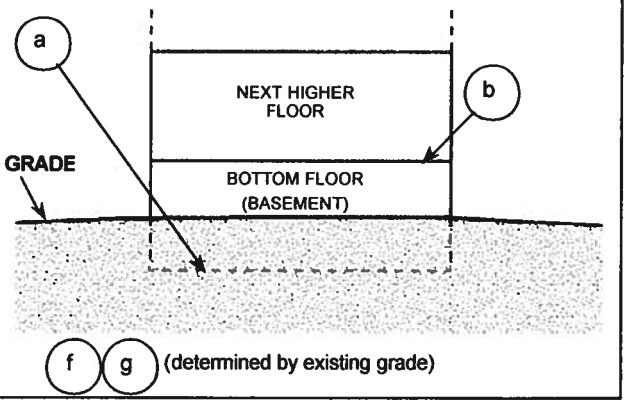


DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least one side.*

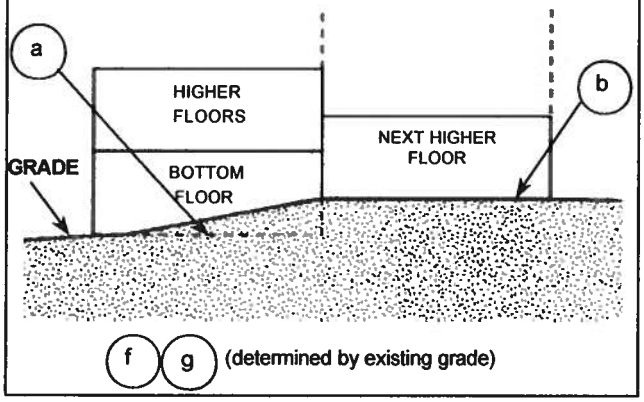
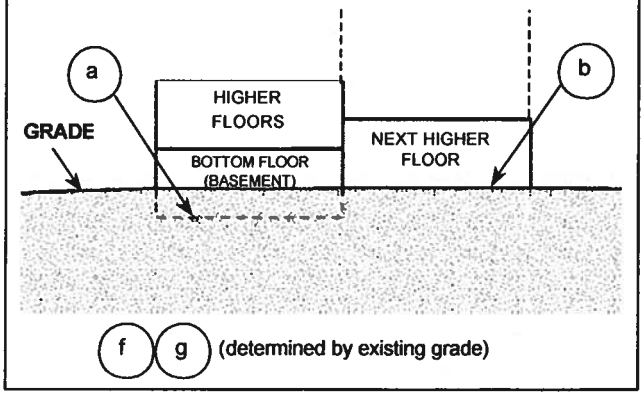


DIAGRAM 4

All split-level buildings (other than slab-on-grade), either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram. *



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or readily removable insect screening is permissible).

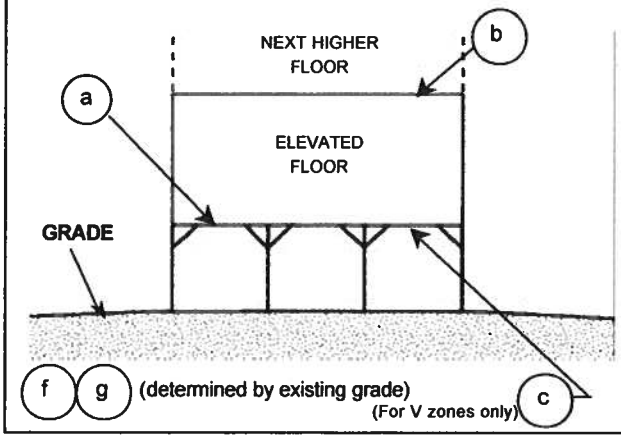


DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

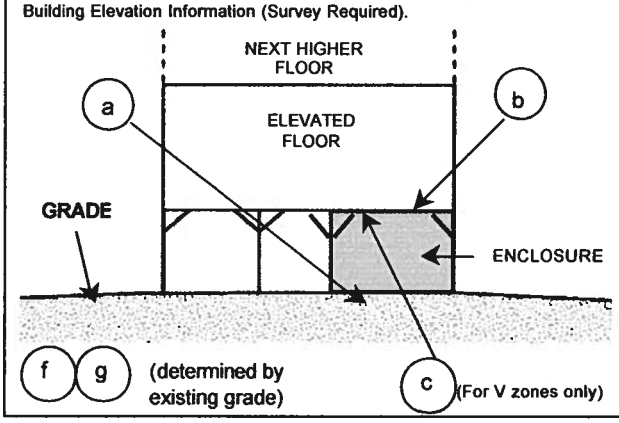


DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).

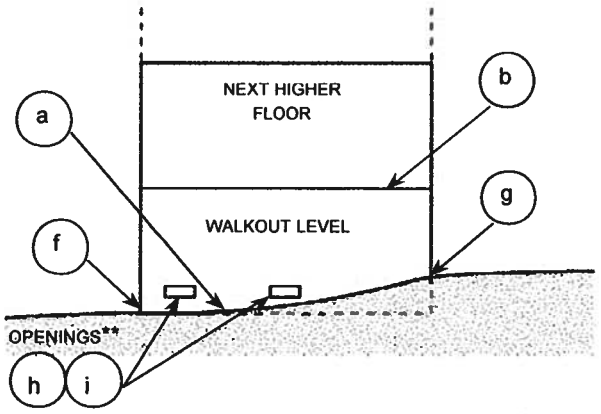
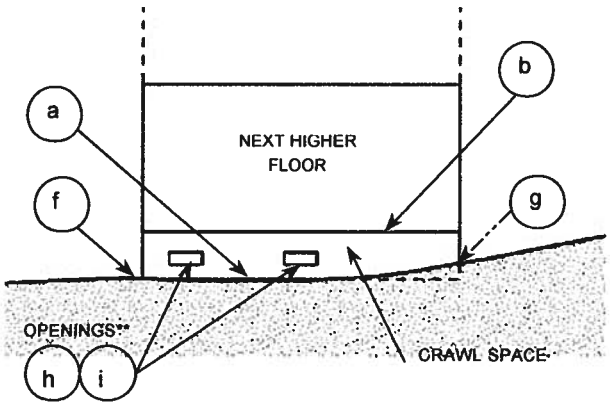


DIAGRAM 8

All buildings elevated on a crawl space with the floor of the crawl space at or above grade on at least one side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawl space is with or without openings** present in the walls of the crawl space. Indicate information about the openings in Section C, Building Elevation Information (Survey Required).



** An "opening" (flood vent) is defined as a permanent opening in a wall that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawl spaces with a total net area of not less than one square inch for every square foot of area enclosed. Each opening must be on different sides of the enclosed area. If a building has more than one enclosed area, each area must have openings on exterior walls to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the grade underneath the flood vents. Alternatively, you may submit a certification by a registered professional engineer or architect that the design will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening.

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 20-2S-16-01660-005 **Building permit No.** 000025335

Use Classification SFD,UTILITY **Fire:** 32.37

Permit Holder DON REED **Waste:** 50.25

Owner of Building HAROLD & BARBARA BASS **Total:** 82.62

Location: 268 NW EVERETT TERR, WHITE SPRINGS, FL

Date: 07/09/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Columbia County Building Department
Flood Development Permit

Development Permit
F 023- 06-018

DATE 12/21/2006 BUILDING PERMIT NUMBER 000025335

APPLICANT KATIE REED PHONE 752-4072

ADDRESS 2230 SE BAYA DR LAKE CITY FL 32025

OWNER HAROLD & BARBARA BASS PHONE 752-4072

ADDRESS 268 NW EVERETT TERR WHITE SPRINGS FL 32096

CONTRACTOR DON REED PHONE 752-4072

ADDRESS 2230 SE BAYA DR LAKE CITY FL 32025

SUBDIVISION LEVINGS UNRECORDED Lot 5 Block ____ Unit ____ Phase ____

TYPE OF DEVELOPMENT SFD,UTILITY PARCEL ID NO. 20-2S-16-01660-005

FLOOD ZONE AE BY BK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL #. 105 B

FIRM 100 YEAR ELEVATION 88' PLAN INCLUDED YES or NO

REQUIRED LOWEST HABITABLE FLOOR ELEVATION 89'

IN THE REGULATORY FLOODWAY YES or (NO) RIVER Suwannee River

SURVEYOR / ENGINEER NAME Mark Disosway LICENSE NUMBER 5-3915

✓ ONE FOOT RISE CERTIFICATION INCLUDED

_____ ZERO RISE CERTIFICATION INCLUDED

_____ SRWMD PERMIT NUMBER _____
(INCLUDING THE ONE FOOT RISE CERTIFICATION)

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED _____

INSPECTED DATE _____ BY _____

COMMENTS _____

135 NE Hernando Ave., Suite B-21
Lake City, Florida 32055
Phone: 386-758-1008
Fax: 386-758-2160

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-269-4871

One Foot Rise Analysis and Certification, 100 Year Base Flood

Harold L. and Barbara R. Bass Residence, NW Everett Terrace, Lot 5, 20-2S-16-01660-005, Columbia Co, FL

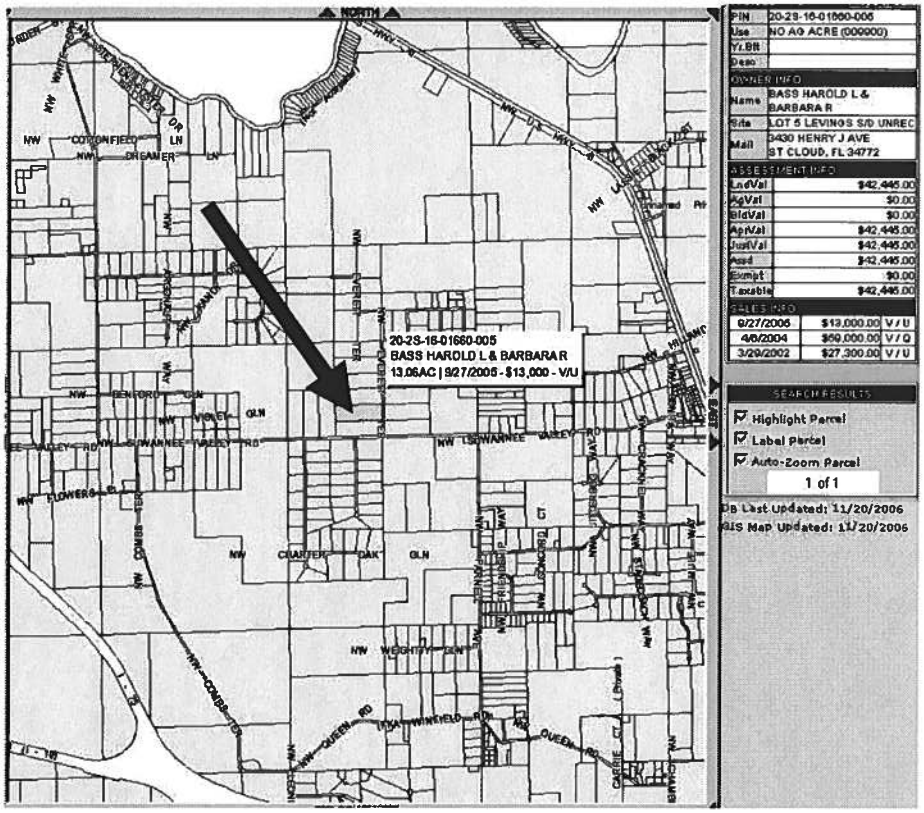
- PROPERTY DESCRIPTION: NW Everett Terrace, Lot 5, 20-2S-16-01660-005, Columbia Co, FL
- OWNER: Harold L. and Barbara R. Bass
- CONTRACTOR: Owner
- PROJECT: A 3963 ft2 addition to existing house on slab on grade stem wall foundation with filled stem wall.
- BASE FLOOD ELEVATION: 88' (Per survey by Wm Kitchen, Dated 20Oct06, Job No.06560.)
- FLOOD ZONE: AE
- BASIN AREA AT BASE FLOOD ELEVATION: 560 Acres (Calculated from FEMA flood plain data.)
- PROPOSED BUILDING AREA: Stem wall filled area 3963 ft2.
- PROPOSED BUILDING VOLUME BELOW FLOODPLAIN: (Slab) 3963 ft2 x 4' = 15852 ft3.
- EXISTING GRADE ELEVATION AT BUILDING LOCATION: 84' average for one foot rise calculations. (Note: Existing grade at building location based on survey by Wm Kitchen, Dated 20Oct06, Job No.06560 which includes topo data.)
- CALCULATIONS: The project only requires volume calculations in this area since it is not a flowing or riverine area.

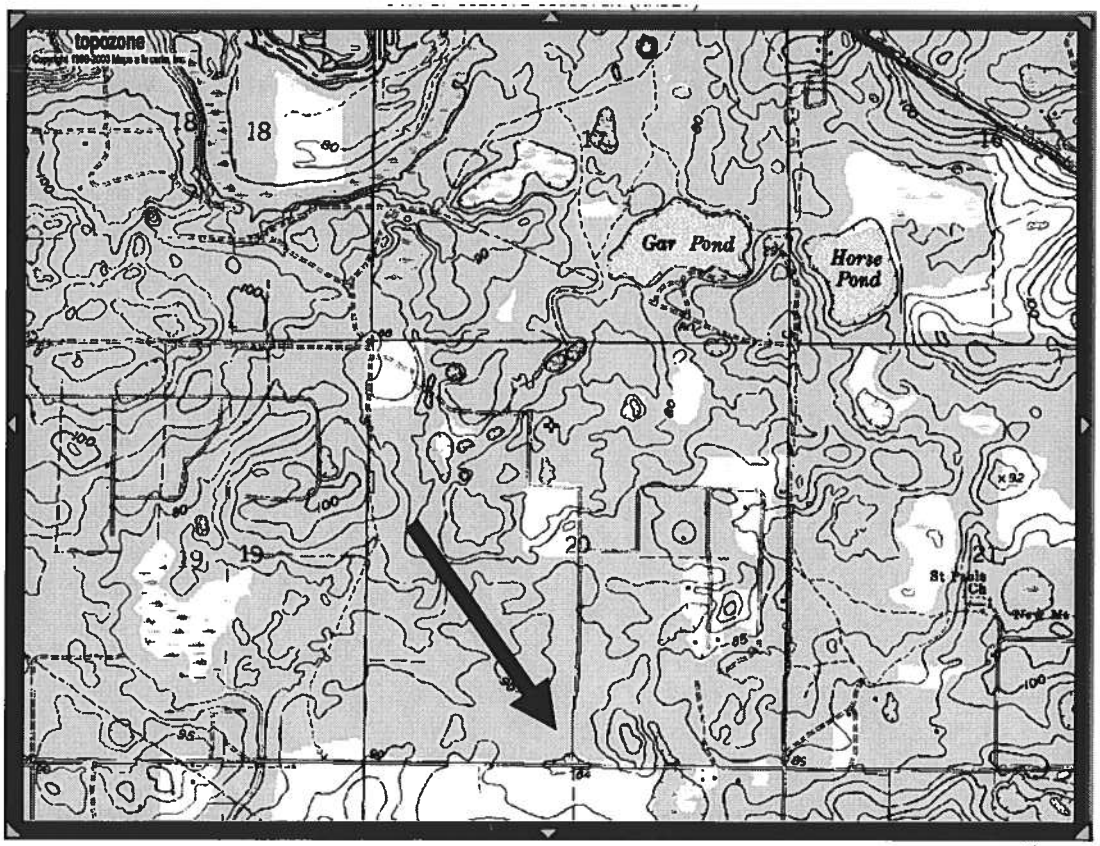
Floodplain volume removed = 15852 ft3

Floodplain level increase = (15852 ft3) / 43560 ft^2/acre / 560 acres = 0.0006 ft

CERTIFICATION:
I hereby certify that construction of Harold L. and Barbara R. Bass Residence, NW Everett Terrace, Lot 5, 20-2S-16-01660-005, Columbia Co, FL will increase flood elevations less than one foot at the project location, to the best of my knowledge.

19 DEC 06


NORTH
20-23-18-01660-005
BASS HAROLD L & BARBARA R
13.06AC | 9/27/2005 - $13,000 - V/U
PIN 20-23-18-01660-005
Use NO AG ACRE (000000)
Yr.Blt
Desc
OWNER INFO
Name BASS HAROLD L & BARBARA R
Site LOT 5 LEVINGS S/D UNREC
Mail 3430 HENRY J AVE ST CLOUD, FL 34772
ASSESSMENT INFO
LndVal $42,445.00
AgVal $0.00
BldVal $0.00
ApiVal $42,445.00
JustVal $42,445.00
Assd $42,445.00
Exempt $0.00
Taxable $42,445.00
SALES INFO
9/27/2006 $13,000.00 V/U
4/6/2004 $50,000.00 V/Q
3/29/2002 $27,300.00 V/U
SEARCH RESULTS
Highlight Parcel
Label Parcel
Auto-Zoom Parcel
1 of 1
DB Last Updated: 11/20/2006
GIS Map Updated: 11/20/2006


topozone
Gar Pond
Horse Pond
St Pauls Ch
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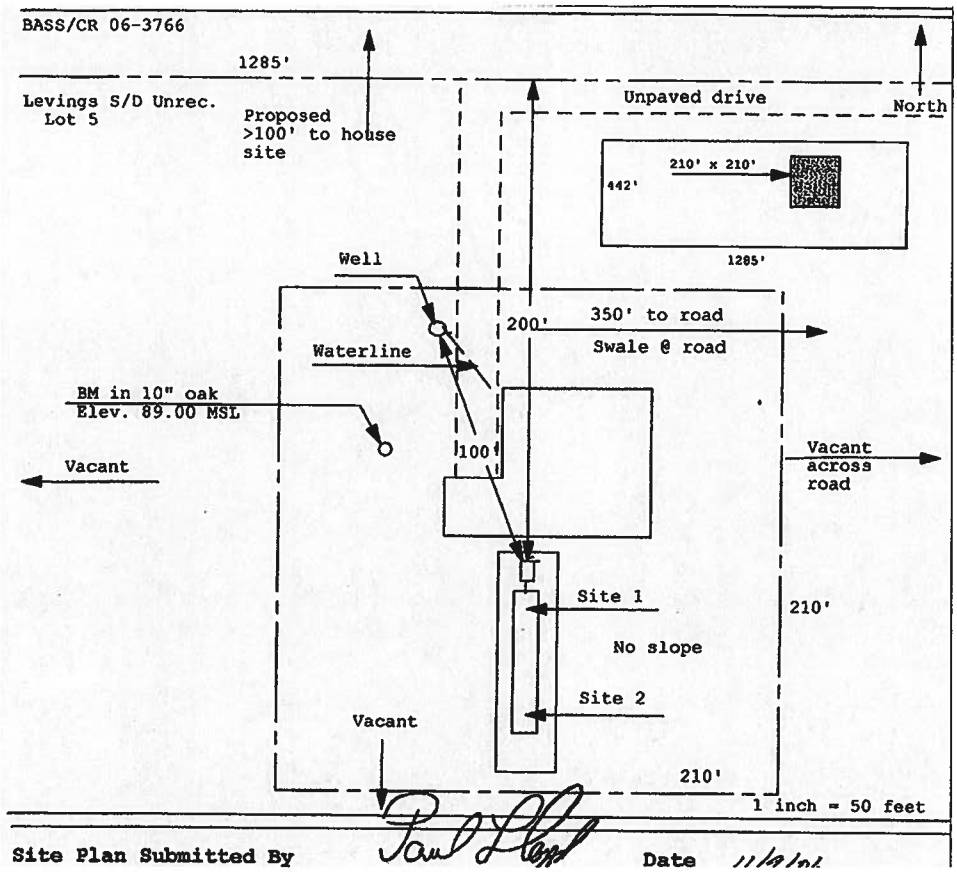
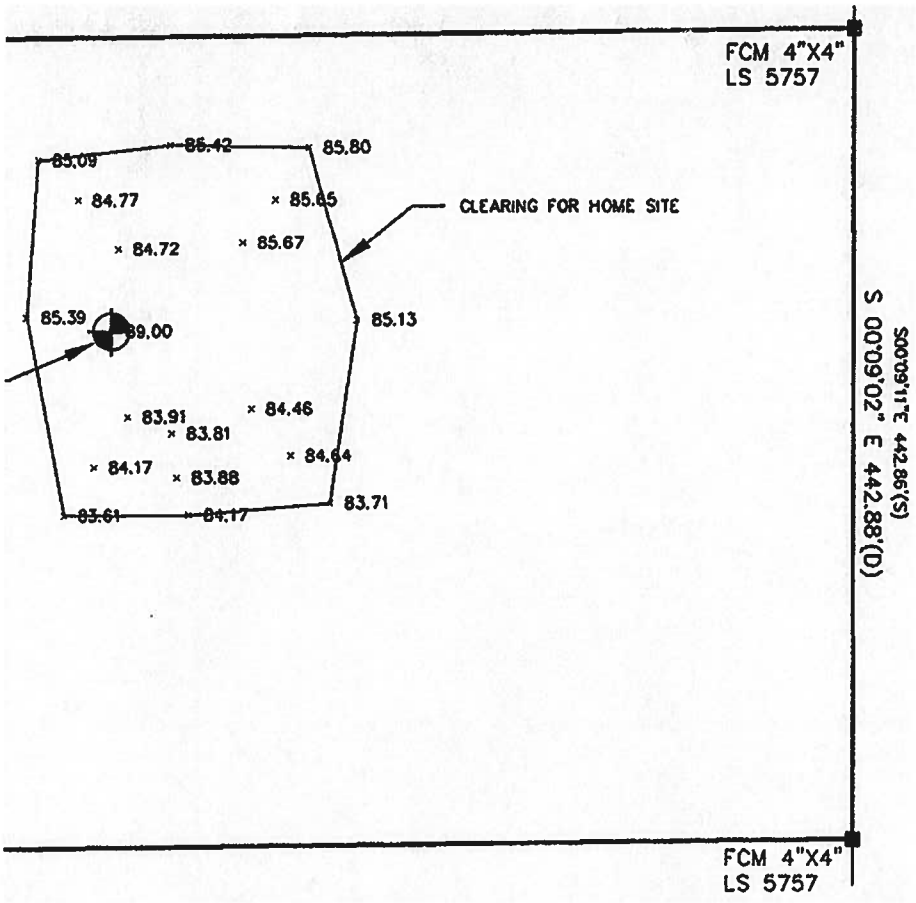
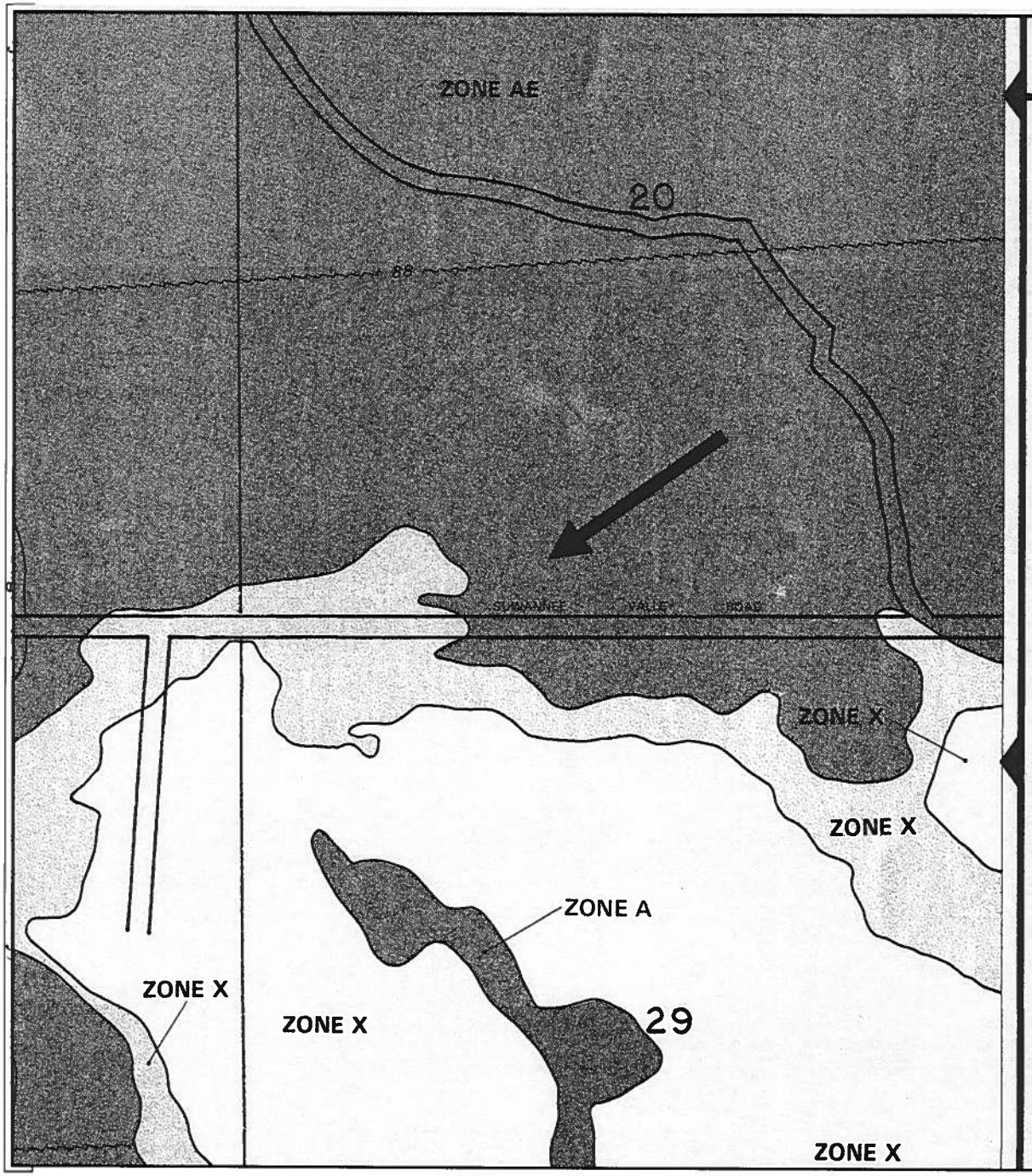
0 0.4 0.8 1.2 1.6 2 mi
M=-4.712


BASS/CR 06-3766
1285'
Levings S/D Unrec.
Lot 5
Proposed
>100' to house
site
Unpaved drive
North
210' x 210'
442'
1285'
Well
200'
350' to road
Swale @ road
Waterline
BM in 10" oak
Elev. 89.00 MSL
100'
Vacant
Vacant
across
road
Site 1
210'
No slope
Site 2
Vacant
210'
1 inch = 50 feet
Site Plan Submitted By
Date


FCM 4"X4"
LS 5757
85.09
85.42
85.80
84.77
85.65
CLEARING FOR HOME SITE
84.72
85.67
85.39
89.00
85.13
83.91
84.46
83.81
84.17
83.88
84.64
83.71
83.61
84.17
S 00°09'02" E 442.88'(D)
S00°09'11"E 442.86'(S)
FCM 4"X4"
LS 5757



N

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 105 OF 290

PANEL LOCATION

COMMUNITY-PANEL NUMBER
120070 0105 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Architectural Testing

AAMA/NWWDA 101/I.S. 2-97 TEST REPORT

Rendered to:

SPECIALTY WINDOWS
5520 Industrial Boulevard
Milton, Florida 32583

Report No: 07-30215.02
Test Date: 11/08/01
Report Date: 04/30/02
Expiration Date: 11/08/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Dayton Technologies, LLC to witness tests performed on one Dayton Series/Model 190.093 SH, PVC single hung window at their Monroe, Ohio, facility. The sample tested successfully met the performance requirements for a H-R50 44 x 96 rating. This test report is a reissue of the original report 07-30215.01. This report is issued in the name of Specialty Windows through written authorization of Dayton Technologies, LLC. Test specimen descriptions and results are reported herein.

Test Procedure: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S. 2-97, *"Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors."*

Test Specimen Description:

Series/Model: Series 1900

Type: PVC Single Hung Window

Overall Size: 3' 7-7/8" wide by 7' 11-3/4" high

Sash Size: 3' 4-3/4" wide by 2' 4-1/2" high

Fixed Daylight Opening Size: 3' 2-3/8" wide by 5' 2-3/4" high

Screen Size: 3' 3-1/4" wide by 2' 3-9/16" high

Glass Type: Nominal 3/4" thick insulating glass fabricated from two sheets 1/8" thick clear tempered sheets with a spacer system.

Reinforcement: Aluminum reinforcement was utilized in fixed meeting rail and bottom lift rail. See Dayton Technologies drawings #6189 and #A6202.

Finish: White PVC.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen N. Reeves
30 APRIL 2002

AAMA/NWWDA 101/I.S. 2-97
TEST REPORT

Rendered to:

SPECIALTY WINDOWS

SERIES/MODEL: Series 1900
TYPE: PVC Single Hung

Title of Test	Summary of Results
Rating	H-R50 44 x 96
Overall Design Pressure	50 psf
Operating Force	8 lbs max.
Air Infiltration	0.08 cfm/ft^2
Water Resistance	7.50 psf
Structural Test Pressure	±75.0 psf
Deglazing	Pass
Forced Entry Resistance	Pass Level 10

Reference should be made to full report for test specimen description and data.

Allen M. Reuss
30 APRIL 2002

Report No: 07-30215.02
Report Date: 04/30/02
Expiration Date: 11/08/05

Test Specimen Description: (Continued)

Glazing Details: The fixed sash was interior wet glazed with silicone and secured with interior PVC snap in beads. The operable sash were exterior wet glazed with silicone with exterior and secured with exterior PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
Bulb (P82060-F)	1 Row	Lift rail
0.290" high by 0.187" back pile with center fin	1 Row	Sill and operable sash meeting rail
0.290" high by 0.187" back pile with center fin	2 Rows	Bottom sash stile

Frame Construction: The frame was constructed of extruded PVC members with mitered and thermally welded corners. The fixed meeting rail was secured with #6 by 1-1/2" steel screws through exterior of jamb into aluminum reinforcement at midpoint of jambs (two total).

Sash Construction: The sash was constructed of extruded PVC members with mitered and thermally welded corners.

Screen Construction: The screen frame was constructed of extruded aluminum with PVC corner keys. Fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Cam lock	2	8" from jambs, 25" apart
Tilt latch	2	Upper sash corners
Tilt pin	2	Lower sash corners
Coil balance	2	One in each jamb

Allen N. Reeves
30 APRIL 2002

Test Specimen Description: (Continued)

Drainage: Sloped sill

Description	Quantity	Location
1" wide by 1/8" high weepslot	2	Screen slot
3/8" wide by 3/16" high weepslot	2	Bottom lift rail
1/4" hole	2	Fixed meeting rail

Installation: The test sample was installed into a nominal 2" by 12" #2 Southern pine wood buck with #6 by 1-1/2" steel screws into jambs, 6" up from sill and 6" down from head, (four total). Exterior perimeter was sealed with silicone.

Test Results: The results are tabulated as follows.

Paragraph	Title of Test	Results	Allowed
2.2.1.6.1	Operating Force Lower Sash	8 lbs	30 lbs max.
2.1.2	Air Infiltration (ASTM E 283-91) (See Note #1) @ 1.56 psf (25 mph)	0.08 cfm/ft^2	0.30 cfm/ft^2 max.
2.1.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 15.0 psf (positive)	0.17"	0.22" max.
	@ 15.0 psf (negative)	0.16"	0.22" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 22.5 psf (positive)	0.02"	0.15" max.
	@ 22.5 psf (negative)	0.02"	0.15" max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration

Allen N. Reese
30 APRIL 2002

Test Results: (Continued)

Paragraph	Title of Test	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction @ 70 lbs		
	Lower Sash		
	Meeting Rail	0.04"/8%	0.50"/100%
	Bottom Rail	0.04"/8%	0.50"/100%
	In remaining direction @ 50 lbs		
	Right stile	0.02"/4%	0.50"/100%
	Bottom Rail	0.02"/4%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance (ASTM F 588-97) (Unit was tested with single and double locks)		
	Type A Grade 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance:			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP =7.50 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 50.0 psf (positive)	0.69"*	0.22" max.
	@ 50.0 psf (negative)	0.64"*	0.22" max.
4.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 75.0 psf (positive)	0.15"	0.15" max.
	@ 75.0 psf (negative)	0.15"	0.15" max.

**Exceeds L/175 for deflection, but meets all other test requirements.*

Allen N. Reese
30 APRIL 2002

This report is reissued in the name of Specialty Windows through written authorization of Dayton Technologies, LLC to whom the original report was rendered. The original Dayton Technologies, LLC Report No. is 07-30215.01.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC.:

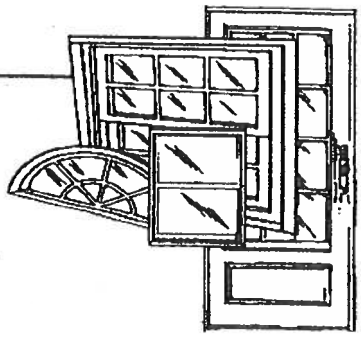
Larry D. Mankin
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
30 APRIL 2002

LDM:nlb
07-30215.02

CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822
(407)-384-7744 • Fax (407)-384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch@bellsouth.net



Report Number: CTLA-619W
Report Date October 26, 2000

STRUCTURAL PERFORMANCE TEST REPORT

Client: Specialty Window of Florida
690 Heinberg Street
Pensacola, Florida 32501

Product Type and Series: Series Vinyl Fin Frame Picture Window F-HC 80 (85" x 85")

Test Specifications: AAMA/NWWDA 101/I.S. 2-97 "Voluntary Specification for Aluminum Vinyl (PVC) and Wood Window and Glass Door".

Test Specimen

Frame: The vinyl fin frame measured 85.25" x 85.25" overall, miter and welded corner construction. With clear lite opening measuring 82" x 82".

Glazing: 1/4" Tempered glass. Interior glazed with silicone backbedding compound.

Sealant: Silicone caulk was used on perimeter of main frame

Weepholes: N/A

Reinforcement: N/A

Additional Description: N/A

Screen: N/A

Installation: Fifty six (56) # 10 x 2" phillips pan head were used to secure the specimen to the wooden test buck. Fourteen (14) in each of the main frame member located 4",11",15",23",29",35",41",47", 53",59",65",71",77",and 83", measuring from left to right head and sill and measuring from head to sill on jambs.

Surface Finish: White

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @ 6.24 psf	ASTM E283-91	.0 cfm/ft²	.3 cfm/ft²
	The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for Air Infiltration.			
2.1.3/4.3	Water Resistance 5.0 gph/ft² WTP=12PSF	ASTM E547-93 Four (4), five minute cycles ASTM E331-93 Fifteen (15)minute duration	No Entry No Entry	No Entry No Entry
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation @ 120 psf Positive @ 120 psf Negative	ASTM E330-90 Ten (10) seconds loads	 .00" .00"	 .336" .336"
2.1.7	Corner Weld Test	AAMA 101/I.S.2-97	Passed	Passed
2.1.8	Forced Entry Resistance T-1 = 10 minutes. Tools used: A spatula (10.1.1.1) and a piece of stiff wire (10.1.1.2) The test specimen meets the performance Grade 40	ASTM F588-97 Test D Window Assemblies	Passed	Passed

Test Date: October 17, 2000

Test Completion Date: October 17, 2000

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the clients is accurate and that the physical and chemical properties of the components as stated by the manufacture.

Certified Testing Laboratories, Inc.

Christopher Bennett
Lab Manager
Architectural Division

P.E.
11/7/00

cc NAMI (2)
Specialty (2)
Ramesh Patel P.E.
File

received
3.27.02

333 Pfingsten Road
Northbrook, Illinois 60062-2096
United States Country Code (1)
(847) 272-8800
FAX No. (847) 272-8129
http://www.ul.com

Underwriters Laboratories Inc.®

March 4, 2002

GAF Materials Corporation
Mr Randall Ziegler
1361 Alps Road
Wayne, NJ 07470

Our Reference: R21

Subject: UL Listed products

Dear Mr Ziegler:

This is is response to your request to identify some of the products that are curently Listed with Underwriters Laboratories relating to various Standards. Following are those products:

Royal Soveraign®
Marquis®/Marquis® WeatherMax®
SLATELINE®
Grand canyon™
Grand Sequoia®
Country Mansion™
Country Estates™
Timberline 30™
Timberline Select™ 40
Timberline Ultra™
Sentinel®
The above products have been tested to ASTM D3462 , Class A UL790/ASTM E108 and UL 997/ ASTM D3161(secured with 4 nails)with velocities up to 110 mph and have successfully met those test criteria.

If you have any questions please feel free to contact the writer.

Very truly yours,

Roger Anderson (Ext. 43283)
Senior Engineering Associate
Conformity Assessment Services- 3011E-NBK

Reviewed by,

Douglas C. Miller (Ext. 43262)
Engineering Group Leader
Conformity Assessment Services- 3011E-NBK

** TOTAL PAGE.01 **

GAF®
GAF MATERIALS CORPORATION

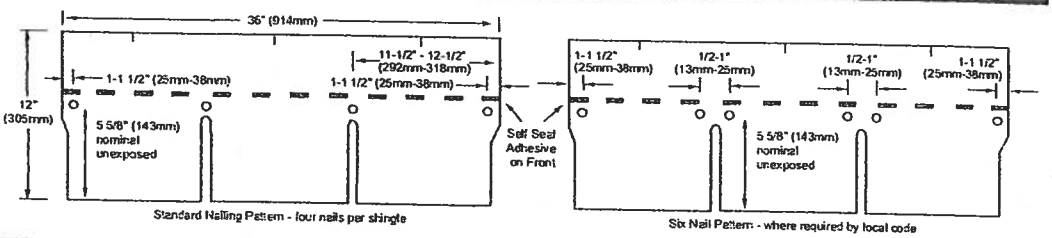
MARQUIS® WeatherMax® SHINGLES

ROYAL SOVEREIGN® SHINGLES

SENTINEL® SHINGLES

APPLICATION INSTRUCTIONS

Note: These shingles must be nailed a nominal 5 5/8" (143mm) from bottom of shingles, not in or above self seal, as shown. Nails should remain unexposed.



GENERAL INSTRUCTIONS

• **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayments as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.

• **UNDERLAYMENT:** Underlayment is required on new construction and required for reroofing when old roof is removed from the deck. Use only "breather type" material like GAF Materials Corporation Shingle-Mate™ Underlayment or equivalent. Underlayments must be installed flat, without wrinkles.

• **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5 5/8" (143mm) up from the bottom of the shingle. Fasteners must be installed approximately 1"- 1 1/2" (25-38mm) and 11 1/2"-12 1/2" (292-318mm) from each side.

• **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply 2 quarter-sized dabs of shingle tab adhesive on the back of each tab, approximately 1" (25mm) from end and 1" (25mm) up from bottom of each tab corner. The shingle must be pressed firmly into the adhesive.

NOTE: Application of excess tab adhesive can cause blistering of the shingle.

For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

• **CANADIAN COLD WEATHER APPLICATIONS:** CSA A123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.

• **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21" (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 2 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.

• **EXPOSURE:** 5" (127mm)

• **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.

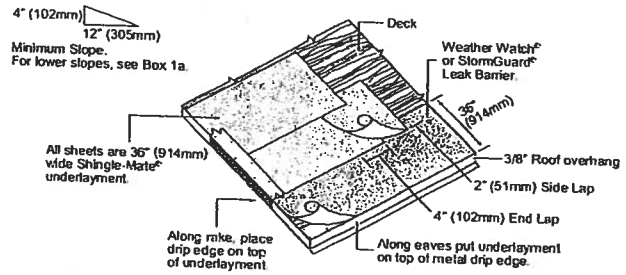
• **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

• **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope–4/12 (333mm/m) or more

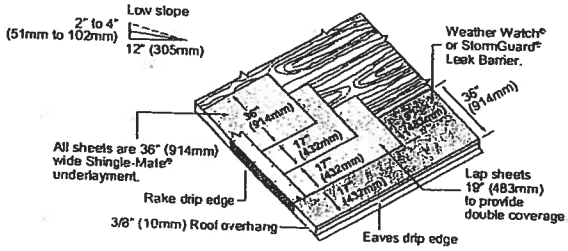
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch™ or StormGuard™ Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



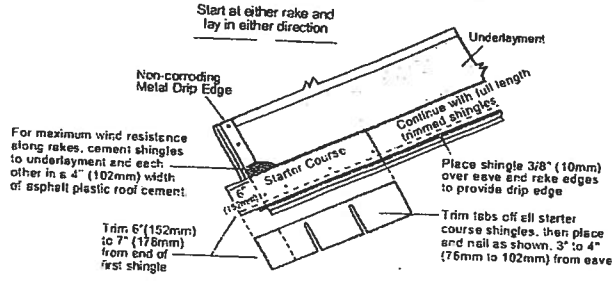
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch™ or StormGuard™ Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate® underlayment.



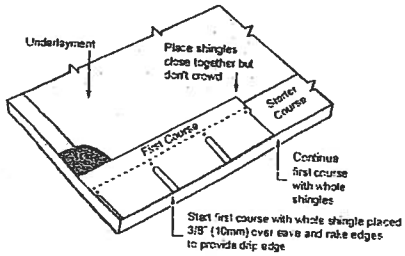
2 Starter Course

Use of any GAF MC 3-tab Shingle is recommended. Apply as shown.



3 First Course

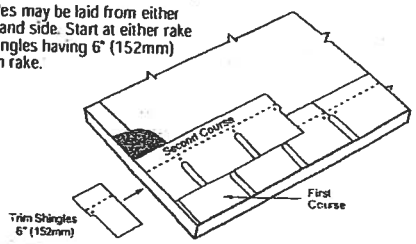
Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



4 Second Course

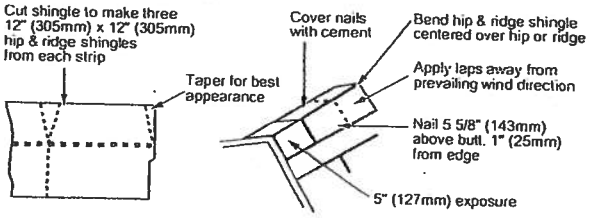
Start and continue second course and all even numbered courses as shown. Position the shingle on the top of the cutouts of the underlying shingle so that there will be 5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied self-sealing dots on lower courses are designed to seal down the shingle tabs in an upper course.

NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.

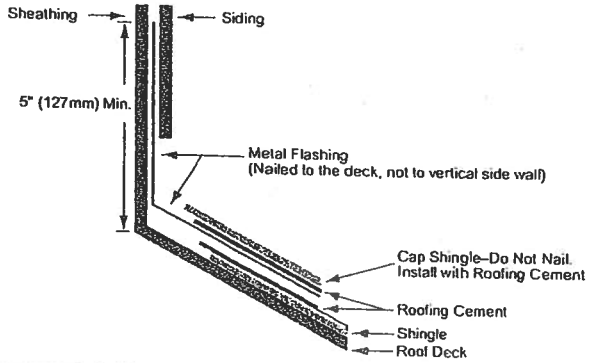


5 Hip and Ridge

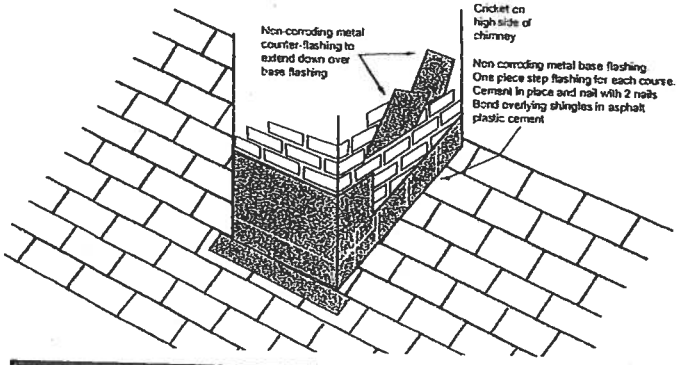
Use GAF hip & ridge shingles, or cut hip & ridge shingles from these full shingles, and apply as shown. Position laps away from prevailing wind direction.



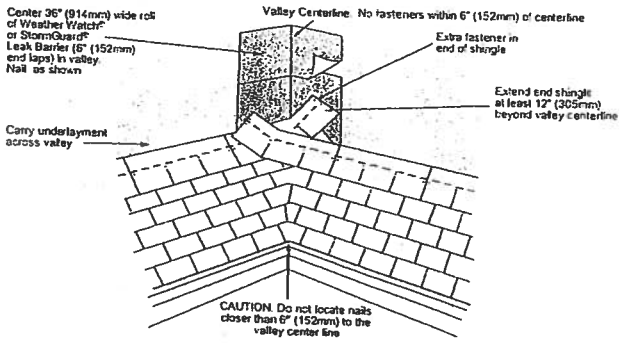
6 Wall Flashing (Sloped Roof to Vertical Wall)



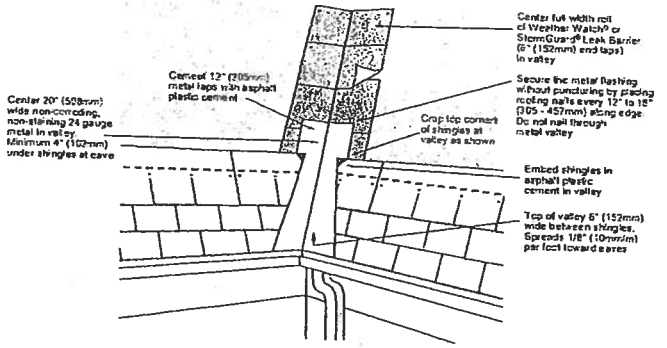
7 Chimney Flashing



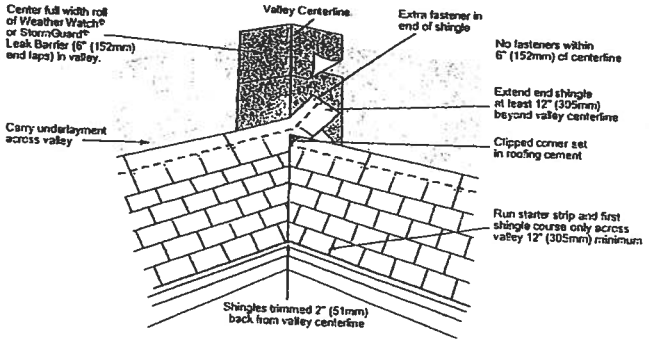
8 Valley Construction - Closed or Woven Valley



9 Valley Construction–Open Cut



10 Valley Construction–Closed Cut



Precautionary Notes

These shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area–maximum temperature 110°F (43°C.) Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

Re-Roofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application. *Note*: Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.

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ENGLISH 110600

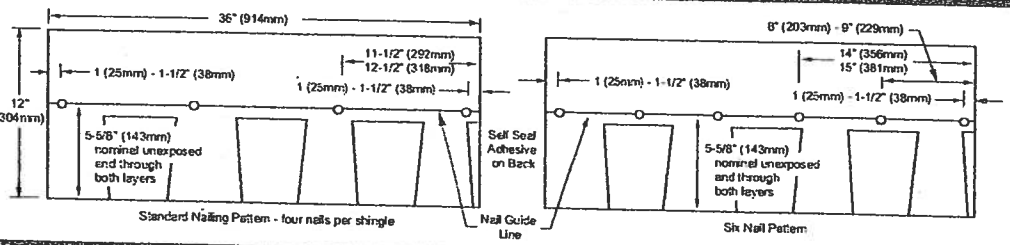
GAF®
GAF MATERIALS CORPORATION

TIMBERLINE® Ultra® SHINGLES
TIMBERLINE® SELECT 40 SHINGLES
TIMBERLINE® 30 SHINGLES

APPLICATION INSTRUCTIONS

Timberline® Series shingles come in either 36" (914mm) or 36-15/16" (938mm) lengths, depending on shingle brand. Application instructions apply to both.

These shingles must be nailed a nominal 5-5/8" (143mm) from bottom of shingles, as shown, to allow for penetration through the double ply area just above the tabs. Nails should remain unexposed.



GENERAL INSTRUCTIONS

• **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayments as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.

• **UNDERLAYMENT:** Underlayment beneath shingles has many benefits, including preventing wind driven rain from reaching the interior of the building and preventing sap in some wood decking from reacting with asphalt shingles. Underlayment is also required by many code bodies. Consult your local building department for its requirements. Where an underlayment is to be installed, a breather-type underlayment such as GAFMC's Shingle-Mate® underlayment is recommended. Underlayment must be installed flat, without wrinkles.

• **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5-5/8" (143mm) up from the bottom of the shingle, to penetrate both layers of the shingle. Fasteners must be installed approximately 1"- 1 1/2" (25-38mm) and 11-1/2"- 12-1/2" (292-318mm) from each side.

• **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply 4 quarter-sized dabs of shingle tab adhesive on the back of the shingle 1" (25mm) and 13" (330mm) in from each side and 1" (25mm) up from bottom of the shingle. The shingle must be pressed firmly into the adhesive.

NOTE: Application of excess tab adhesive can cause blistering of the shingle.

For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

• **CANADIAN COLD WEATHER APPLICATIONS:** CSA 123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.

• **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21" (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 4 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.

• **EXPOSURE:** 5" (127mm)

• **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements

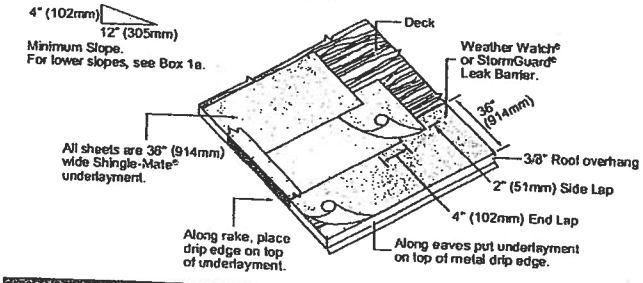
• **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

• **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope—4/12 (333mm/m) or more

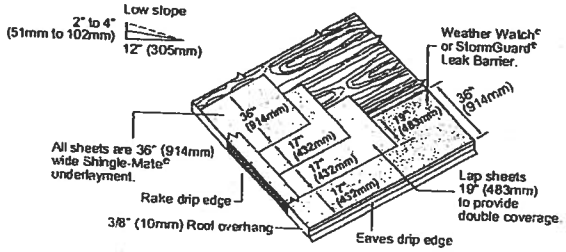
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



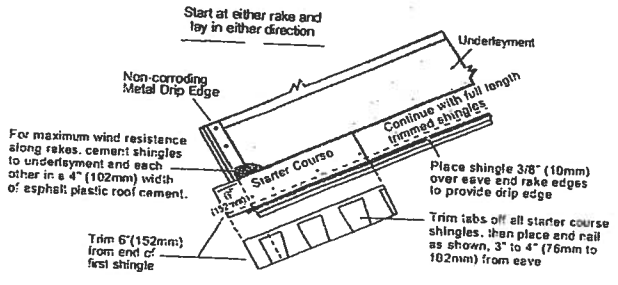
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate® underlayment.



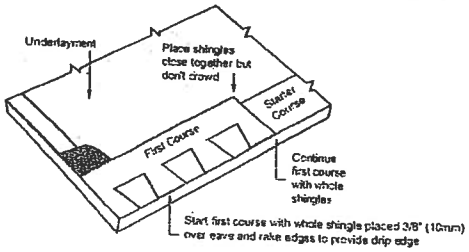
2 Starter Course

Apply as shown.



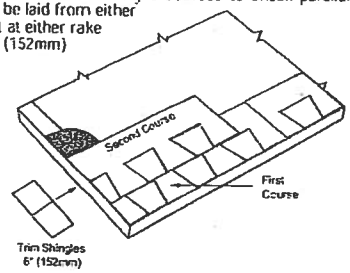
3 First Course

Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



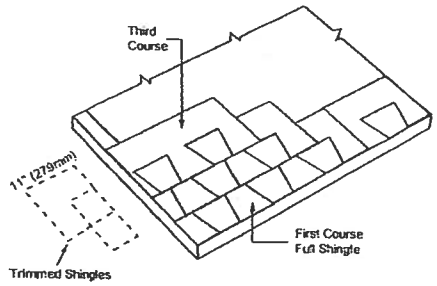
4 Second Course

Start and continue second course as shown. Trim 6" (152mm) from the end of the shingle. Position the shingles in the second and subsequent courses flush with the tops of the wide cutouts. This results in a 5" (127mm) exposure. Continue with full width shingles across the roof. Strike a chalk line about every 6 courses to check parallel alignment with eaves. NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.



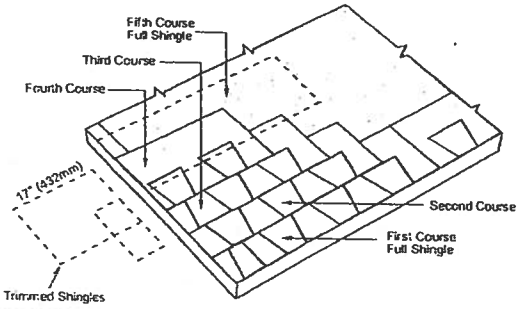
5 Third Course

Trim 11" (279mm) from the first shingle in the course then continue with full shingles across the roof.



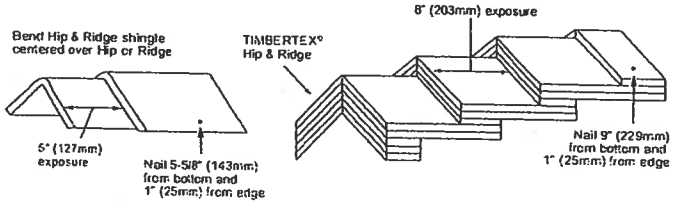
6 Fourth Course and Remaining Courses

Trim 17" (432 mm) from first shingle in the course, then continue with full shingles across the roof. Fifth and subsequent courses repeat full shingle instructions from Step 3.

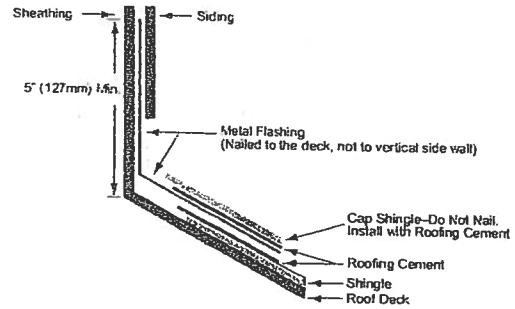


7 Hip and Ridge

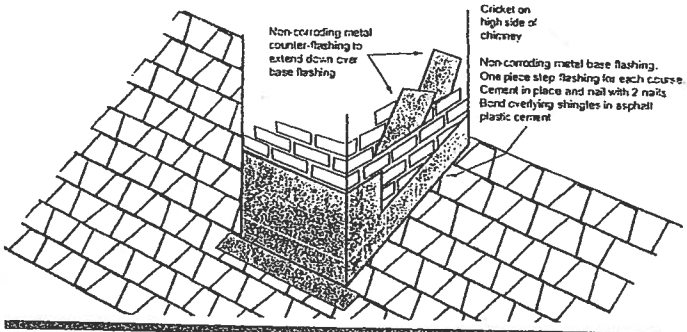
For single layer application, use hip and ridge shingles and apply as shown. To enhance appearance, use GAF TIMBERTEX® or a double layer application of Universal Hip & Ridge. (One bundle of TIMBERTEX® Hip & Ridge covers 20 lineal ft.–6.1 meters.) For double application, start with triple thickness of precut Hip & Ridge shingles and continue remainder with double thickness. Fasten in same manner as single application shown. Apply laps away from prevailing wind direction.



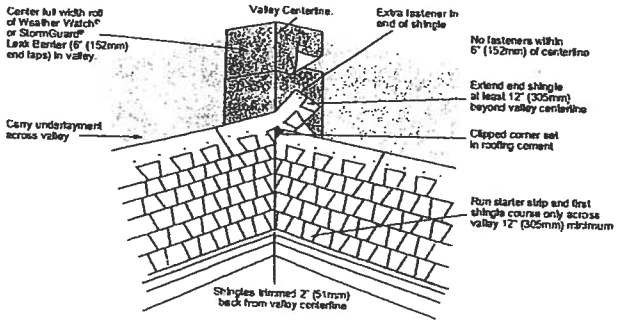
8 Wall Flashing (Sloped Roof to Vertical Wall)



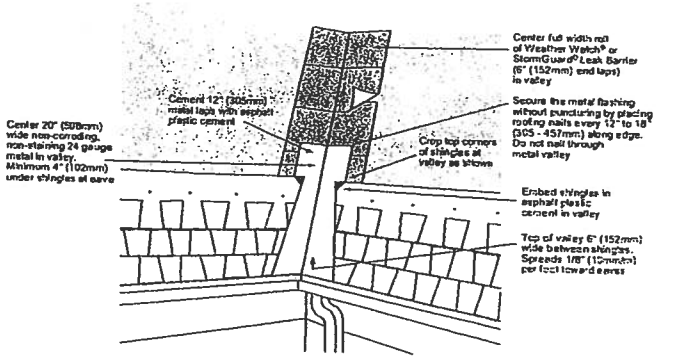
9 Chimney Flashing



10 Valley Construction–Closed Cut



11 Valley Construction–Open



Precautionary Notes

Timberline® Series shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area–maximum temperature 110°F (43°C.) Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

Re-Roofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application.

Note: Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.

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ENGLISH 121201

TAMKO ROOFING PRODUCTS

received
3.27.02

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

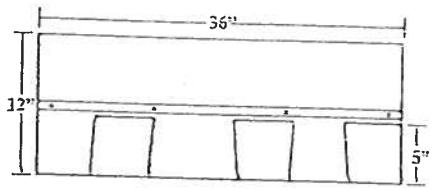
TAMKO Roofing Products, Inc.

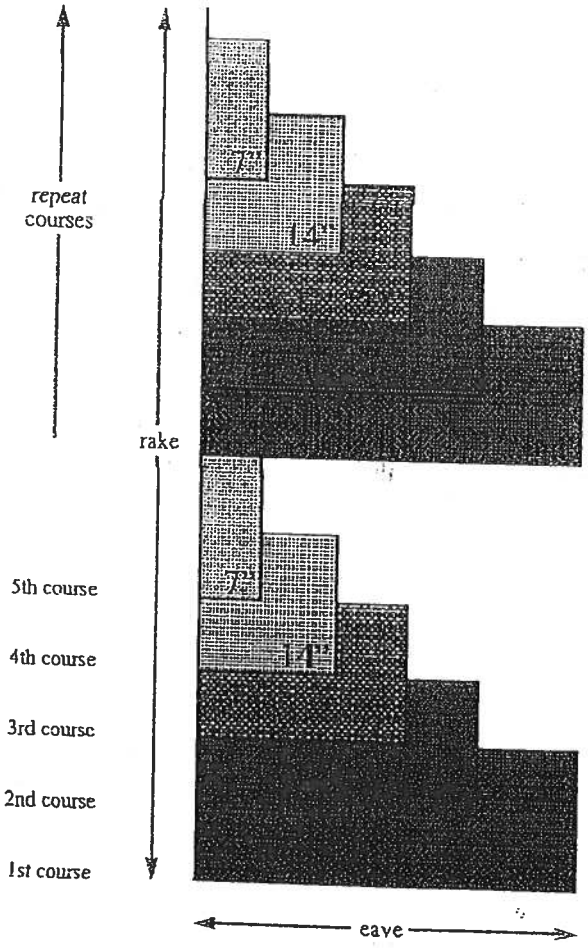
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-841-1925

TAMKO
ROOFING PRODUCTS

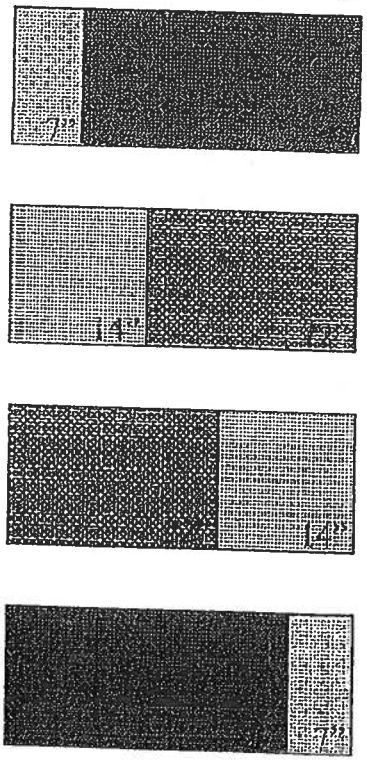
Application Instructions For Heritage® 40 & 30 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	36"
Width	12"
Bundles per Sq.	4
Shingles per Sq.	80
Shingles per Bundle	20
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

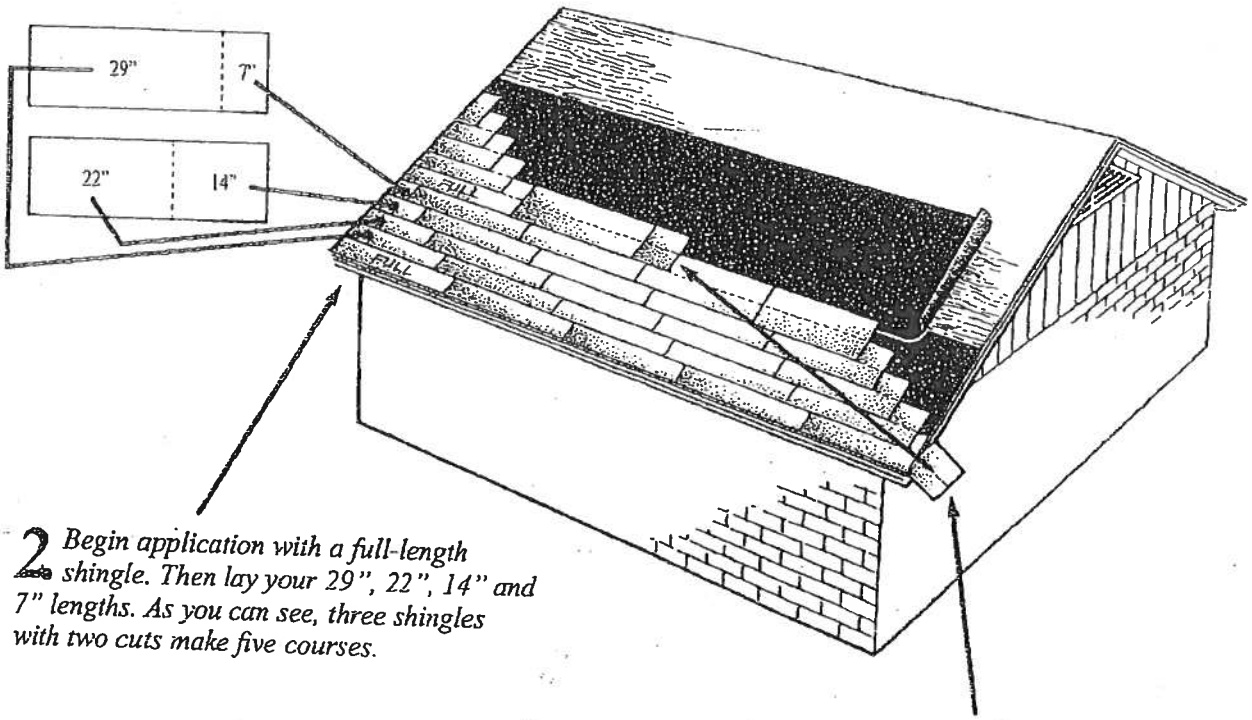
NOTE: These application instructions apply only to Heritage 40, Heritage 30, Heritage 40 AR, and Heritage 30 AR shingles.

TAMKO®
ROOFING PRODUCTS

Application Instructions For Heritage® 40 & 30 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and a 7" length. Cut a second shingle to make a 22" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 22", 14" and 7" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

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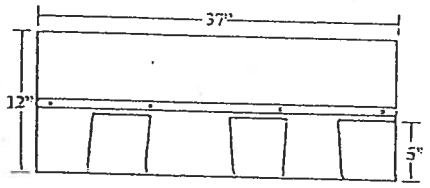
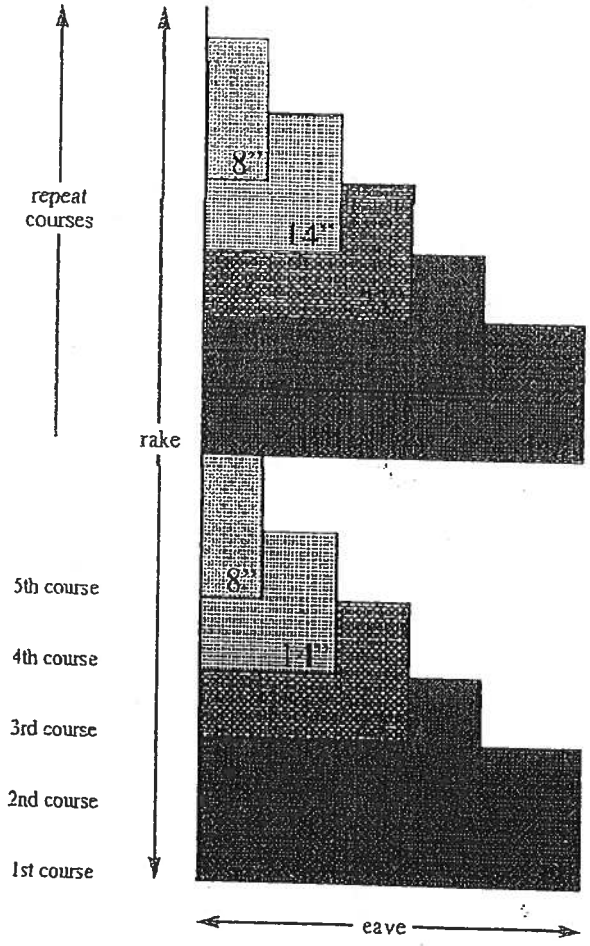
TAMKO
ROOFING PRODUCTS

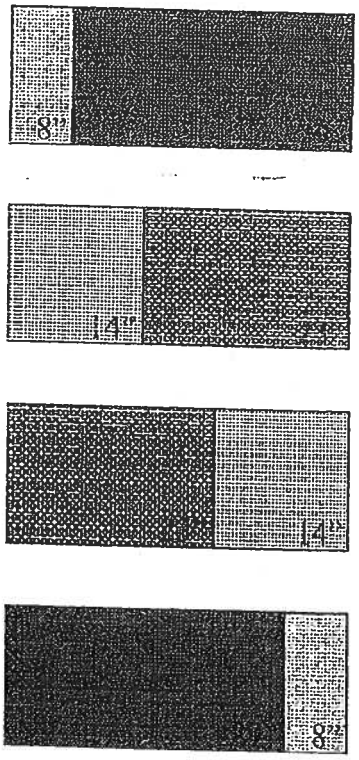
Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

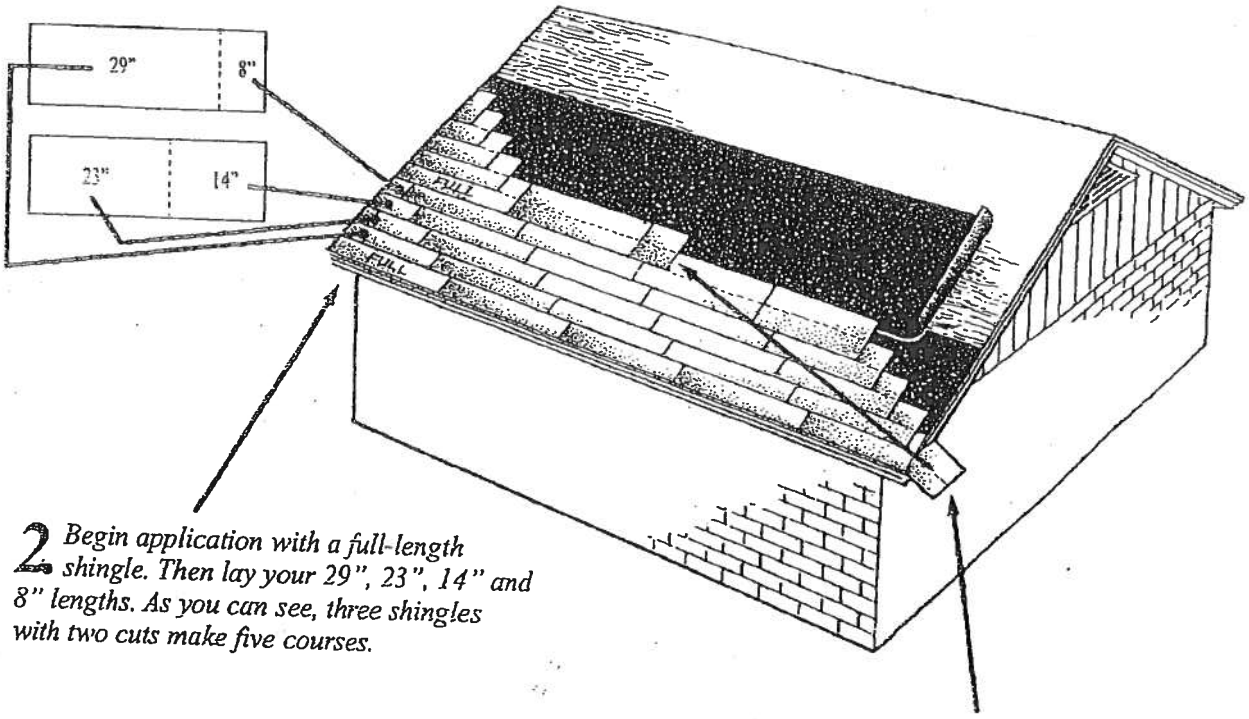
NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 25 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and an 8" length. Cut a second shingle to make a 23" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 23", 14" and 8" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

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TAMKO®
ROOFING PRODUCTS

Application Instructions for

- Glass-Seal
- Glass-Seal AR
- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.
IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.
FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

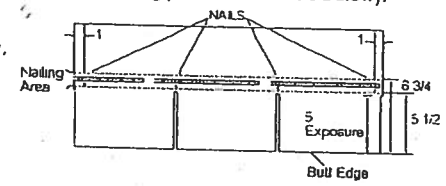
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

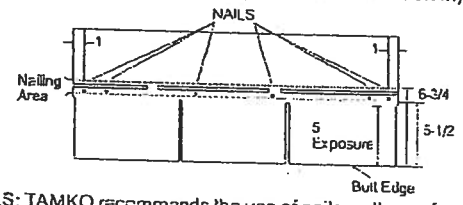
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

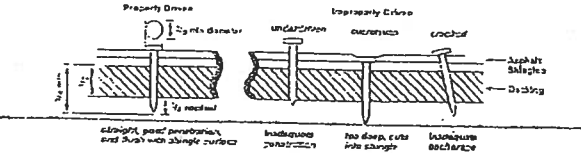
(Continued)

(CONTINUED from Pg. 1)

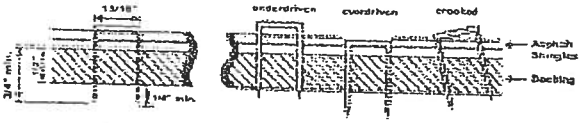
• Glass-Seal • Glass-Seal AR • Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



STAPLES: If staples are used in the attaching process, follow the above instructions for placement. All staples must be driven with pneumatic staplers. The staple must meet the following minimum dimensional requirements. Staples must be made from a minimum 16 gauge galvanized wire. Crown width must be at least 15/16 in. (staple crown width is measured outside the legs). Leg length should be a minimum of 1-1/4 in. for new construction and 1-1/2 in. for reroofing thus allowing a minimum deck penetration of 3/4 in. The crown of the staple must be parallel to the length of the shingle. The staple crown should be driven flush with the shingle surface. Staples that are crooked, underdriven or overdriven are considered improperly applied.



CAUTION: DO NOT FASTEN INTO THE FACTORY APPLIED ADHESIVE.

4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles which is not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I
- Any TAMKO non-perforated asphalt saturated organic felt

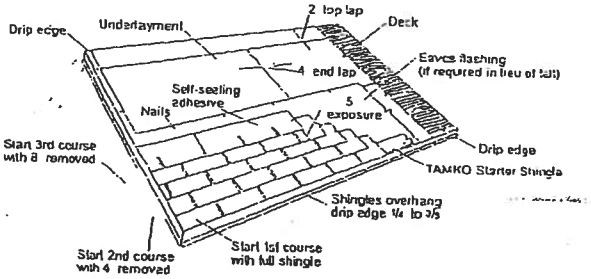
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: A starter course may consist of TAMKO Shingle Starter, self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. Attach the starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eaves edge. The starter course should overhang both the eaves and rake edges 1/4 in. to 3/8 in. If a roll roofing is used, seal down the shingles in the first course by applying adhesive cement in four spots equally spaced to the surface of the starter strip and press the shingle down on the spots of cement. Plastic cement should be used sparingly, as excessive amounts may cause blistering.

SHINGLE APPLICATION: There are three different offset methods for applying strip shingles: the 4-inch method, the 5-inch method and the 6-inch method. By removing different lengths from the first shingle, cutouts in one course of shingles do not line up directly with those of the course below. It is recommended that the shingles be laid according to one of these methods consistent with procedures outlined in ARMA's Residential Asphalt Roofing Manual. This panel will feature the 4-inch method. For information regarding the other methods, please refer to the ARMA Residential Asphalt Roofing Manual.
CAUTION: Never use an alignment system where shingle joints are closer than 4 in. to one another.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of asphalt saturated felt. Begin by applying the felt in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the felts to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus® self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. MANSARD ROOF OR STEEP SLOPE ROOF

If the slope exceeds 21 in. per foot (60°), each shingle must be sealed

(Continued)

(CONTINUED from Pg. 2)

• Glass-Seal • Glass-Seal AR • Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

8. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

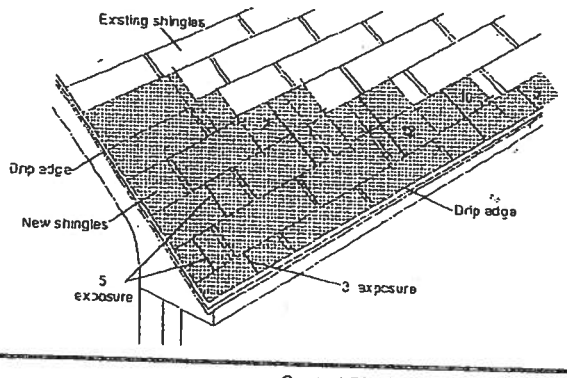
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.



9. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

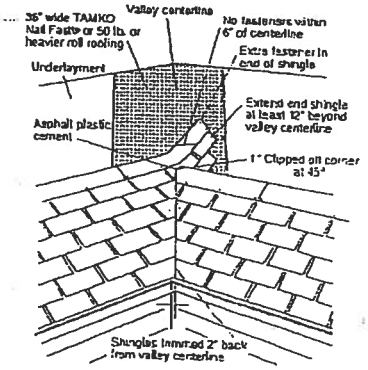
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

- ***CAUTION:*** *Adhesive must be applied in smooth, thin, even layers.*

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



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TAMKO®
ROOFING PRODUCTS

(CONTINUED from Pg. 3)

• Glass-Seal • Glass-Seal AR • Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

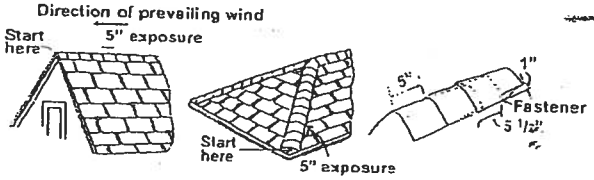
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

received
3.27.02

ELK Premium Roofing

March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:
ASTM D3462
PA 100 (110 mph uplift and wind driven rain resistance)
PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –
PA 100 = 4 nails
PA 107 = 4 nails
MD NOA# = 01-1226.03

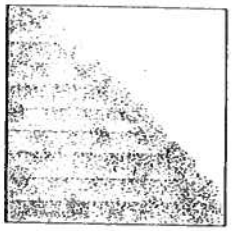
Capstone*
PA 100 = 4 Nails
PA 107 = 4 Nails
MD NOA# = 01-0523.01

* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

Mike Reed – Technical Manager (205) 342-0287 or Daniel DeJarnette – QA Engineer (205) 342-0298

ROOFING PRODUCTS SPECIFICATIONS – TUSCALOOSA, AL



PRESTIQUE® HIGH DEFINITION®

High Definition

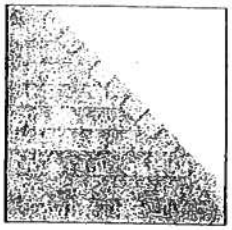
Product size	13¼"x 39⅜"	50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	11	

High Definition

Product size	13¼"x 39⅜"	40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	14	

High Definition

Product size	13¼"x 38¾"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	



RAISED PROFILE™

Product size	13¼"x 38¾"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

HIP AND RIDGE SHINGLES

Size: 12"x 12"
Exposure: 6⅝"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood. Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

***See actual limited warranty for conditions and limitations.**
****Check for product availability.**

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes [4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

SOUTHEAST & ATLANTIC OFFICE: 800.945.5551

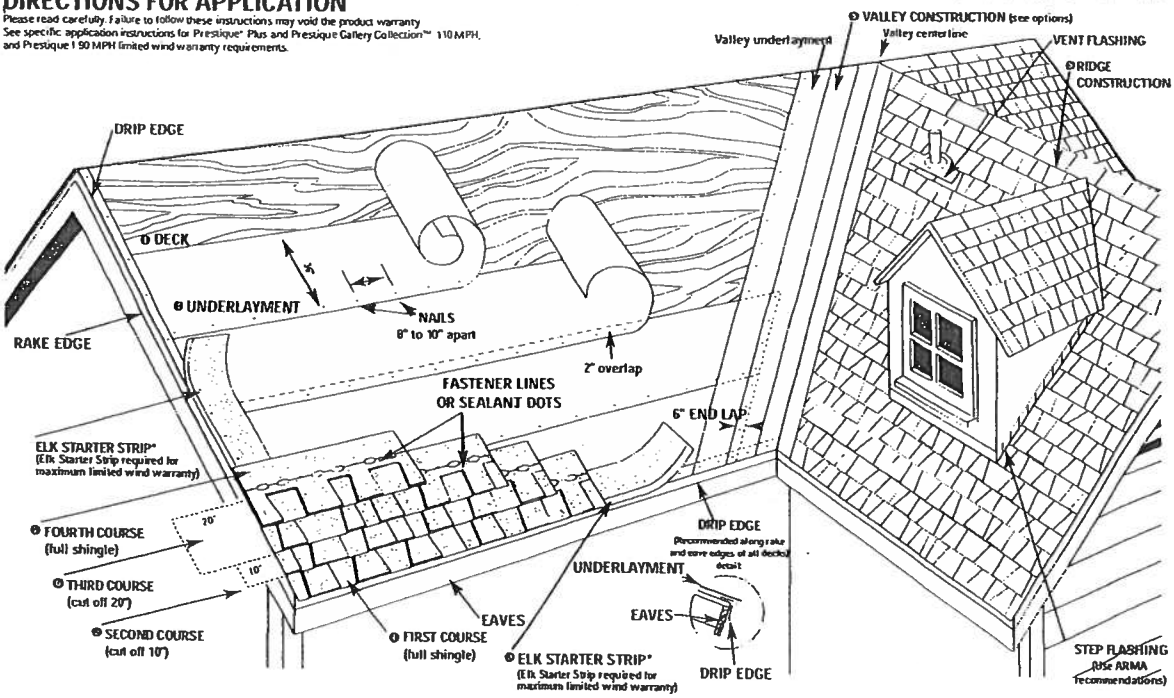
CORPORATE HEADQUARTERS: 800.354.7732

PLANT LOCATION: 800.945.5545

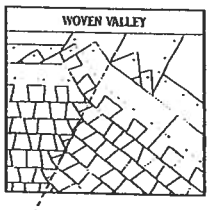
ELK
www.elkcorp.com

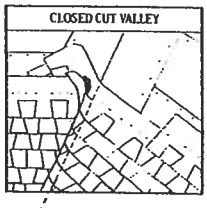
DIRECTIONS FOR APPLICATION

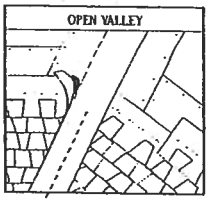
Please read carefully. Failure to follow these instructions may void the product warranty
See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH, and Prestique I 90 MPH limited wind warranty requirements.



❺ VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.







DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

❾ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

❽ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

❺ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❻ RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula *FLX*™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

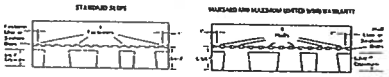
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

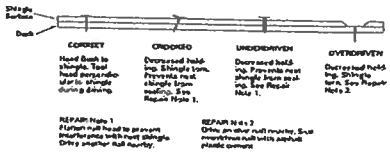
LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

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ELK

www.elkcorp.com

Lake City Glass, Inc.

P. O. Box 114 ~ Lake City, FL 32056
Phone 386-752-6204 ~ Fax 386-752-5952 ~ Email lcglass@isgroup.net
1-877-735-7720

April 08, 2002

To: All Contractors

Since the new windload code has been enforced for the State of Florida we have had several calls wanting information regarding the test reports and pricing. The following prices and enclosures should answer most of your questions. However, if you need further information please contact myself or Carl Bullard, Jr. We will be happy to assist you.

Contractor Prices:
Stratford Series

16 x 7 Raised Panel Steel Door (non-windload)	$425.00
9 x 7 Raised Panel Steel Door (non-windload)	$325.00
8 x 7 Raised Panel Steel Door (non-windload)	$295.00

For 110 mph windload add:

16 x 7	$125.00
9 x 7	$ 45.00
8 x 7	$ 45.00

Note glass, inserts, and insulation are extra, please call for pricing. The above prices do not include sales tax.

Sincerely,

Mandie Jo Page, Office Manager

Enc.: 4
cc: file

FORM 600A-2004 EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Bass Residence**	Builder:	**Don Reed**
Address:		Permitting Office:	
City, State:	**Lake City, FL**	Permit Number:	
Owner:	**Harold & Barbara Bass**	Jurisdiction Number:	
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2763 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 236.4 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 236.4 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 264.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Concrete, Int Insul, Exterior	R=5.0, 2380.0 ft²	
b.	Frame, Wood, Exterior	R=13.0, 260.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2763.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 120.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 48.0 kBtu/hr	
		SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 48.0 kBtu/hr	
		HSPF: 7.20	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons	
		EF: 0.92	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	CF,	

Glass/Floor Area: 0.12

Total as-built points: 37908

Total base points: 41341

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 8-3-06

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL,	PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
4	2635.00	10540.0		50.0	0.92	4	1.00	2635.00	1.00	10540.0
				As-Built Total:						**10540.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
16229	**14572**	**10540**	**41341**	**10069**	**17300**	**10540**	**37908**

PASS

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL,	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**23225.7**	**Winter As-Built Points:**					**31429.4**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 48000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
23225.7	0.6274	14571.8	31429.4	1.00	1.162	0.474	1.000	17299.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2763.0	12.74	6336.1	Double, Clear	E	1.5	7.0	108.0	18.79	1.03	2083.5
				Double, Clear	E	9.0	7.0	36.0	18.79	1.35	915.9
				Double, Clear	E	9.0	10.0	6.7	18.79	1.26	157.7
				Double, Clear	E	9.0	3.0	4.0	18.79	1.51	113.3
				Double, Clear	E	1.5	7.0	15.0	18.79	1.03	289.4
				Double, Clear	N	1.5	7.0	36.0	24.58	1.00	886.1
				Double, Clear	N	1.5	5.0	12.0	24.58	1.00	296.0
				Double, Clear	W	1.5	7.0	72.0	20.73	1.02	1516.9
				Double, Clear	W	18.0	7.0	36.0	20.73	1.23	921.0
				Double, Clear	W	1.5	3.0	3.8	20.73	1.08	84.2
				Double, Clear	S	1.5	7.0	15.0	13.30	1.07	214.2
				As-Built Total:				**344.4**			**7478.3**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior	5.0	2380.0	5.70	13566.0
Exterior	2640.0	3.70	9768.0	Frame, Wood, Exterior	13.0	260.0	3.40	884.0
Base Total:	**2640.0**		**9768.0**	**As-Built Total:**		**2640.0**		**14450.0**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0	8.40	336.0
Exterior	60.0	12.30	738.0	Exterior Insulated	20.0	8.40	168.0
Base Total:	**60.0**		**738.0**	**As-Built Total:**	**60.0**		**504.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	2763.0	2.05	5664.1	Under Attic	30.0	2763.0	2.05 X 1.00	5664.1
Base Total:	**2763.0**		**5664.1**	**As-Built Total:**		**2763.0**		**5664.1**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	264.0(p)	8.9	2349.6	Slab-On-Grade Edge Insulation	0.0	264.0(p	18.80	4963.2
Raised	0.0	0.00	0.0					
Base Total:			**2349.6**	**As-Built Total:**		**264.0**		**4963.2**

INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points
	2763.0	-0.59	-1630.2		2763.0	-0.59	-1630.2

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 38042.9			**Summer As-Built Points:**					**35483.7**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 48000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
38042.9	**0.4266**	**16229.1**	35484 **35483.7**	1.00 **1.00**	(1.09 x 1.147 x 0.91) **1.138**	0.263 **0.263**	0.950 **0.950**	10068.8 **10068.8**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , **Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2763.0	20.04	9966.7	Double, Clear	E	1.5	7.0	108.0	42.06	0.94	4262.7	
				Double, Clear	E	9.0	7.0	36.0	42.06	0.46	694.8	
				Double, Clear	E	9.0	10.0	6.7	42.06	0.54	152.2	
				Double, Clear	E	9.0	3.0	4.0	42.06	0.36	60.0	
				Double, Clear	E	1.5	7.0	15.0	42.06	0.94	592.0	
				Double, Clear	N	1.5	7.0	36.0	19.20	0.96	660.1	
				Double, Clear	N	1.5	5.0	12.0	19.20	0.92	210.9	
				Double, Clear	W	1.5	7.0	72.0	38.52	0.94	2604.3	
				Double, Clear	W	18.0	7.0	36.0	38.52	0.38	530.5	
				Double, Clear	W	1.5	3.0	3.8	38.52	0.73	105.4	
				Double, Clear	S	1.5	7.0	15.0	35.87	0.89	481.3	
				As-Built Total:				**344.4**			**10354.3**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior			5.0	2380.0	1.00		2380.0	
Exterior	2640.0	1.70	4488.0	Frame, Wood, Exterior			13.0	260.0	1.50		390.0	
Base Total:	**2640.0**		**4488.0**	**As-Built Total:**				**2640.0**			**2770.0**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	Exterior Insulated				40.0	4.10		164.0	
Exterior	60.0	6.10	366.0	Exterior Insulated				20.0	4.10		82.0	
Base Total:	**60.0**		**366.0**	**As-Built Total:**				**60.0**			**246.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	2763.0	1.73	4780.0	Under Attic			30.0	2763.0	1.73 X 1.00		4780.0	
Base Total:	**2763.0**		**4780.0**	**As-Built Total:**				**2763.0**			**4780.0**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	264.0(p)	-37.0	-9768.0	Slab-On-Grade Edge Insulation			0.0	264.0(p	-41.20		-10876.8	
Raised	0.0	0.00	0.0									
Base Total:			**-9768.0**	**As-Built Total:**				**264.0**			**-10876.8**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	2763.0	10.21	28210.2					2763.0	10.21		28210.2	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.9

The higher the score, the more efficient the home.

Harold & Barbara Bass, , Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family	a.	Central Unit	Cap: 48.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4	b.	N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2763 ft²	c.	N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 236.4 ft²	a.	Electric Heat Pump	Cap: 48.0 kBtu/hr
b.	SHGC:				HSPF: 7.20
	(or Clear or Tint DEFAULT) 7b.	(Clear) 236.4 ft²	b.	N/A	
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 264.0(p) ft	c.	N/A	
b.	N/A				
c.	N/A		14.	Hot water systems	
9.	Wall types		a.	Electric Resistance	Cap: 50.0 gallons
a.	Concrete, Int Insul, Exterior	R=5.0, 2380.0 ft²			EF: 0.92
b.	Frame, Wood, Exterior	R=13.0, 260.0 ft²	b.	N/A	
c.	N/A				
d.	N/A		c.	Conservation credits	
e.	N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 2763.0 ft²	15.	HVAC credits	CF,
b.	N/A			(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 120.0 ft		MZ-C-Multizone cooling,	
b.	N/A			MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

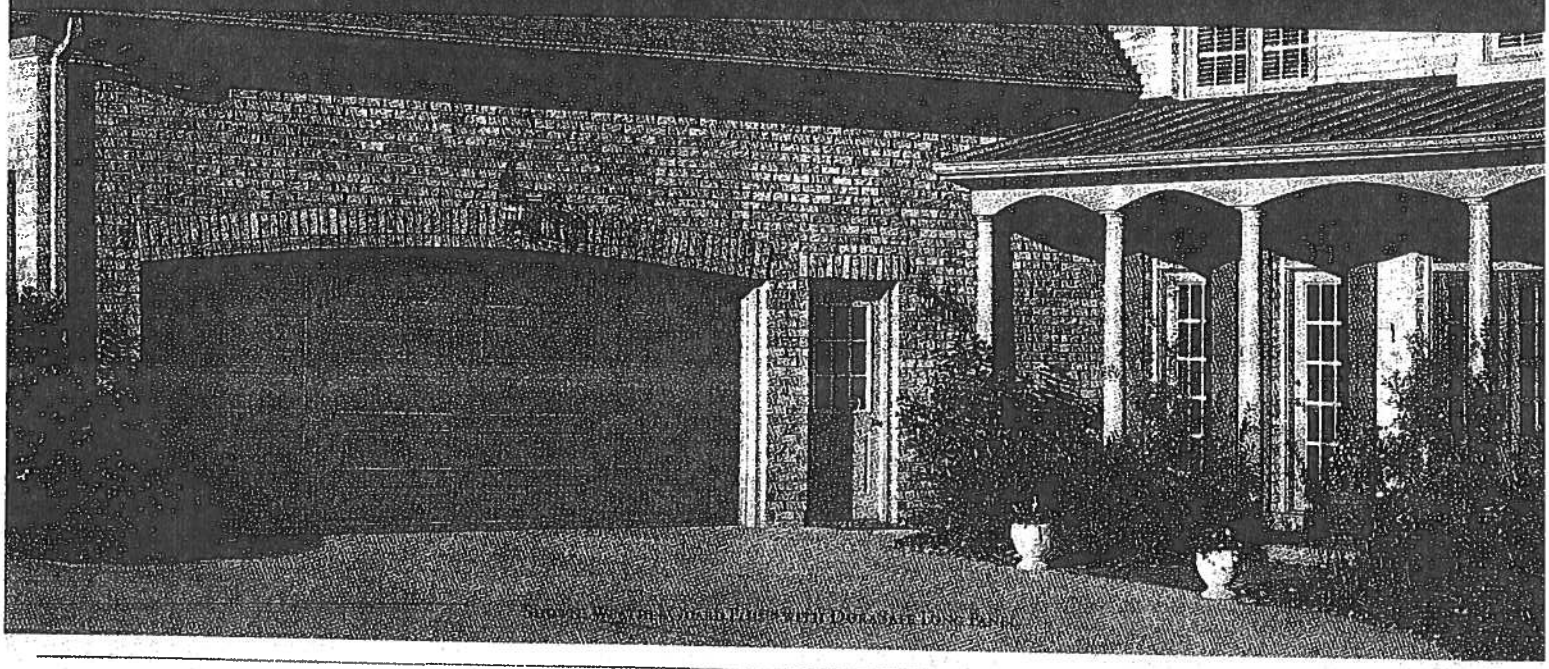
Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

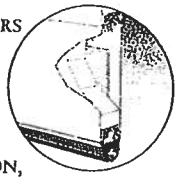
1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Amarr® GARAGE DOORS

BEST | WEATHERGUARD™ SERIES
FEATURING OUR **DuraSafe System**



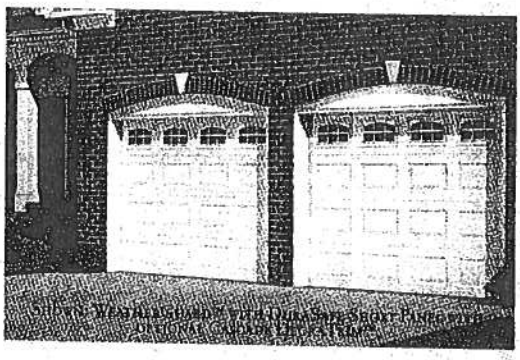
WEATHERGUARD PLUS™ WITH DuraSafe



THE WEATHERGUARD PLUS OFFERS DISCERNING HOMEOWNERS A MASTERFUL COMBINATION OF PREMIUM FEATURES. SUPERIOR TRIPLE-LAYER CONSTRUCTION, 2" (5.1 CM) POLYSTYRENE INSULATION, AN R-VALUE OF 8.34, AND UNMATCHED BEAUTY PUT THE WEATHERGUARD PLUS AT THE TOP OF ITS CLASS.

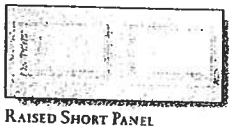
WEATHERGUARD™ WITH DuraSafe

TOP-QUALITY TRIPLE-LAYER CONSTRUCTION AND 1 3/8" (3.5 CM) POLYSTYRENE INSULATION MAKE OUR WEATHERGUARD STEEL DOOR STRONG, QUIET, AND ENERGY EFFICIENT. FEATURING AN R-VALUE OF 5.73, THE WEATHERGUARD IS THE PERFECT ADDITION TO YOUR HOME FOR YEARS OF TROUBLE FREE SERVICE AND GREAT LOOKS.

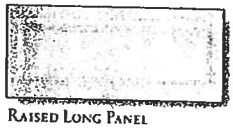


DESIGN ELEMENTS

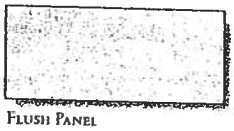
THE WEATHERGUARD SERIES DOORS ARE AVAILABLE WITH A RAISED SHORT, RAISED LONG, OR FLUSH PANEL DESIGN IN YOUR CHOICE OF FOUR COLORS.*



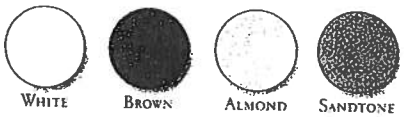
RAISED SHORT PANEL



RAISED LONG PANEL



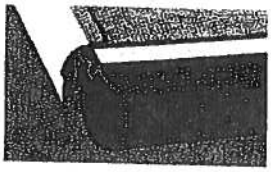
FLUSH PANEL



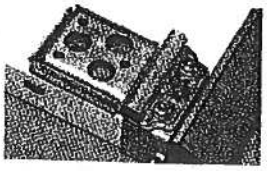
WHITE BROWN ALMOND SANDTONE

* ACTUAL PAINT COLORS MAY VARY FROM SAMPLES SHOWN.

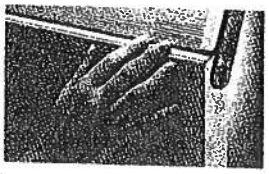
Bottom Seal
NEW ALUMINUM BOTTOM SEAL MEANS EASY AND FAST INSTALLATION AND MAINTENANCE... AS WELL AS A BETTER SEAL AGAINST THE ELEMENTS.



Bottom Bracket
NEW TAMPER RESISTANT BOTTOM BRACKET HELPS PREVENT ACCIDENTS, YET ALLOWS FOR ROLLER MAINTENANCE/CHANGE WITHOUT DISASSEMBLY. FULL LENGTH ROLLER TUBE PREVENTS SLIP-OUTS.

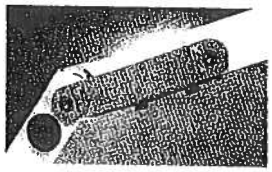


Door Sections
THE SECTION JOINT OF THE FUTURE: TODAY. NEW SECTION PROFILE ASSURES PINCH RESISTANCE BOTH INSIDE AND OUT, EXCEEDING INDUSTRY STANDARDS - NEITHER FINGERS NOR WEATHER GETS IN.



Center Hinge
FLUSH MOUNT INBOARD DESIGN CENTER HINGES PROVIDE PINCH RESISTANT PROTECTION AND A LOW PROFILE CLEAN LOOK ON THE INSIDE OF THE DOOR.

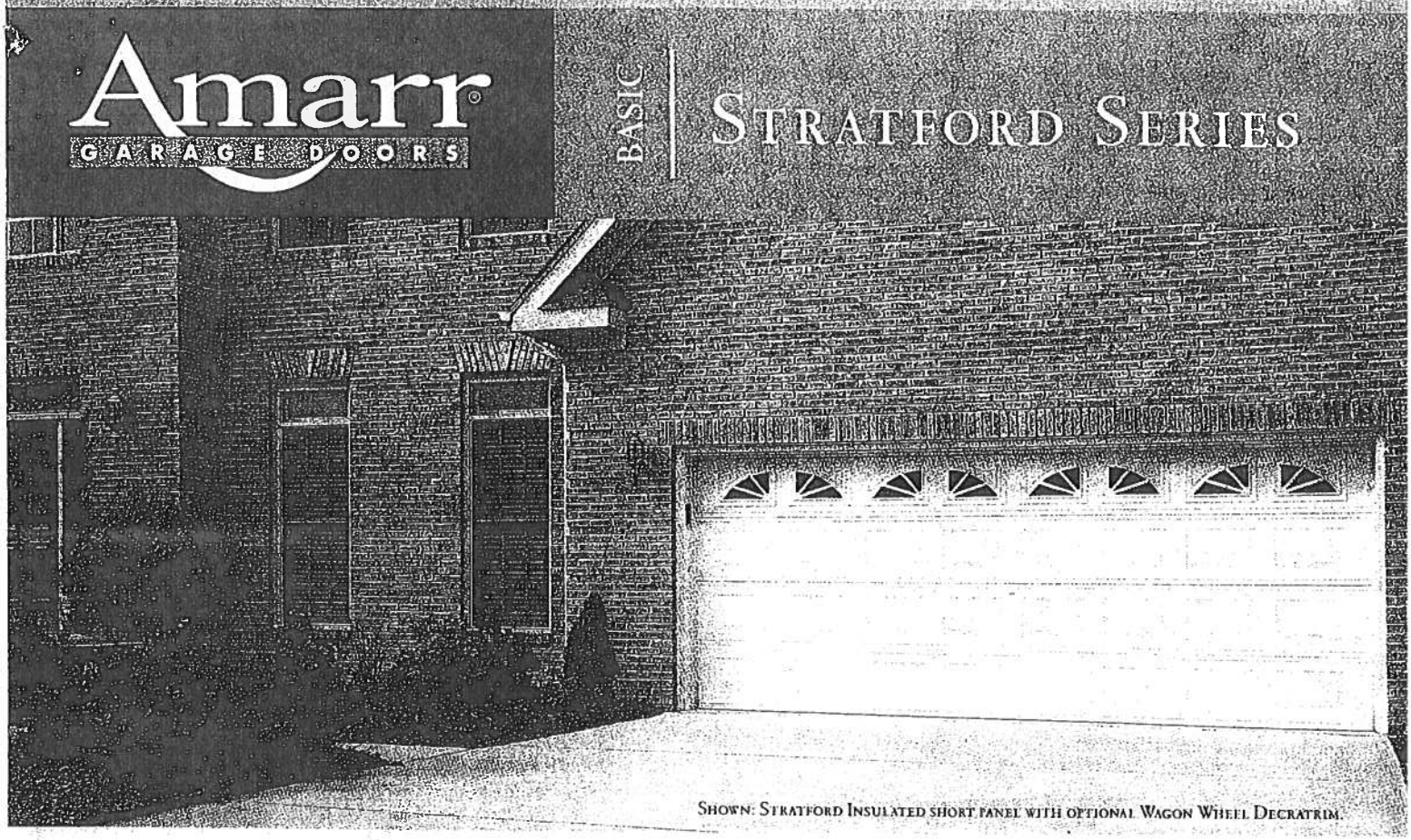
End Hinge
WITH MOST OF ITS ACTION HIDDEN INSIDE THE DOOR, OUR RE-ENGINEERED END HINGES LEAVE NO ROOM FOR EVEN THE SMALLEST FINGERS.



AMARR DURASAFE DOORS UNDER 8'9" WILL BE SUPPLIED WITH DURASAFE HARDWARE. DASMA STANDARDS FOR PINCH-RESISTANCE DO NOT APPLY TO DOORS OVER 8' HIGH SINCE THE POTENTIAL PINCH POINTS ARE ABOVE TYPICAL GRASPING HEIGHTS; AMARR DOORS OVER 8'9" ARE SUPPLIED WITH CONVENTIONAL HARDWARE. THE BOTTOM BRACKET, DOOR SECTIONS, CENTER HINGE AND END HINGE SHOWN ABOVE ARE PATENTED. DOORS SHOWN ARE ELECTRICALLY OPERATED. NON-ELECTRICALLY OPERATED DOORS SHOULD HAVE EXTERIOR AND INTERIOR LIFT HANDLES ATTACHED TO THE DOOR.

Amarr
GARAGE DOORS

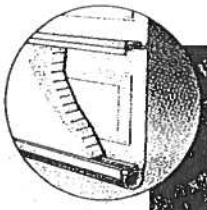
BASIC | STRATFORD SERIES



SHOWN: STRATFORD INSULATED SHORT PANEL WITH OPTIONAL WAGON WHEEL DECRATRIM.

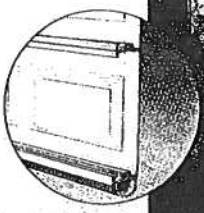
STRATFORD INSULATED

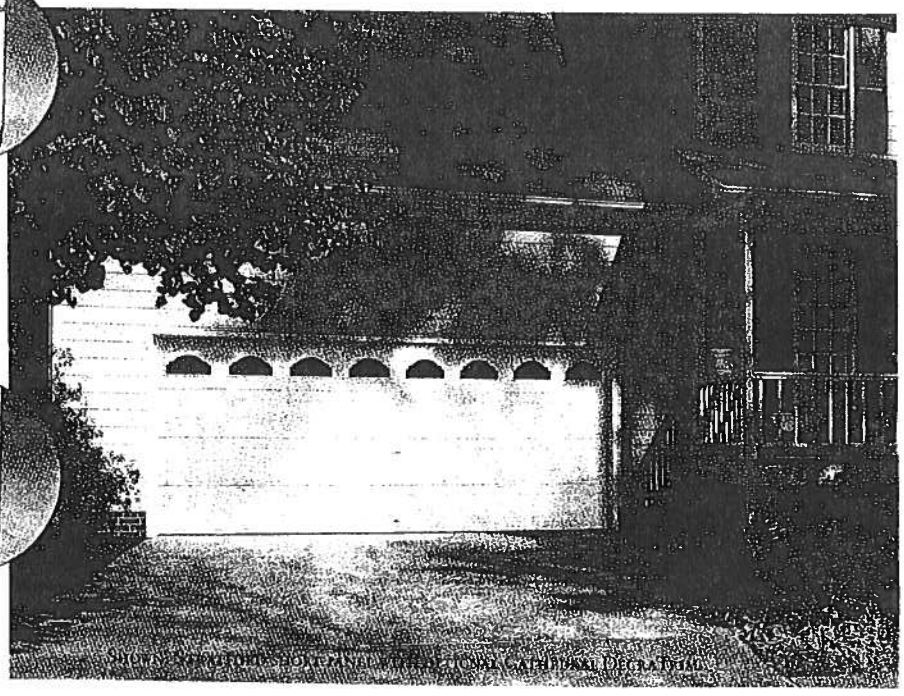
THE 2" (5.1 CM) THICK STRATFORD INSULATED PROVIDES HOMEOWNERS EXCELLENT THERMAL PROTECTION AND HANDSOME GOOD LOOKS. FEATURES INCLUDE DOUBLE-LAYER CONSTRUCTION OF STURDY 25-GAUGE STEEL, AND 1 7/16" (3.7 CM) POLYSTYRENE INSULATION WITH LAMINATED BACKING AND AN R-VALUE OF 5.65.



STRATFORD

A SUPERLATIVE ADDITION TO ANY HOME, THE STRATFORD'S DURABLE SINGLE-LAYER CONSTRUCTION, 25-GAUGE STEEL, AND ATTRACTIVE DESIGN PROVIDE HOMEOWNERS WITH EXCEPTIONAL VALUE.

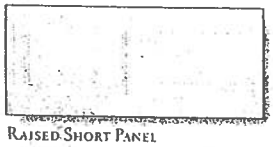




SHOWN: STRATFORD SOLID PANEL WITH OPTIONAL CATHEDRAL DECRATRIM.

DESIGN ELEMENTS

THE STRATFORD SERIES DOORS ARE AVAILABLE WITH A RAISED SHORT PANEL DESIGN IN YOUR CHOICE OF THREE COLORS.*



RAISED SHORT PANEL

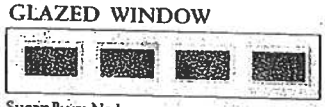
WHITE ALMOND SANDTONE

* ACTUAL PAINT COLORS MAY VARY FROM SAMPLES SHOWN.

DecraTrim Window Accents

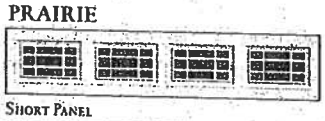
Add visual interest to your windows with a variety of color-matched, easy-to-snap-in DecraTrim inserts.

GLAZED WINDOW



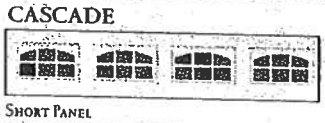
Short Panel No Inserts not available on 156" (472.55 cm) 158" (477.52 cm)

PRAIRIE



Short Panel

CASCADE



Short Panel

CATHEDRAL

Short Panel

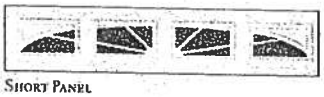
WATERFORD

Short Panel

WAGON WHEEL

Short Panel

SUNRAY



Short Panel

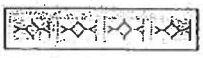
FULL SUNRAY

Short Panel — only available on 16' (487.68 cm) 17' (518.16 cm) 18' (548.64 cm)

DecraGlass™ Windows

Add a touch of elegance with translucent, tempered DecraGlass, featuring V-groove etching.

CHALET



Brass Came & Etched Design

RIVIERA

V-Groove Etched Design

VICTORIAN

V-Groove Etched Design

DecraTrim and DecraGlass Windows not available for 15'6" and 15'8" short panel doors.

The Amarr Philosophy

Since 1951, we have successfully raised the standards of quality, value, and dependability in our industry. Today, with the same promise of individual attention and great value for all our customers, we remain committed to offering products and services that raise those standards even higher.

Richard A. Brenner, President

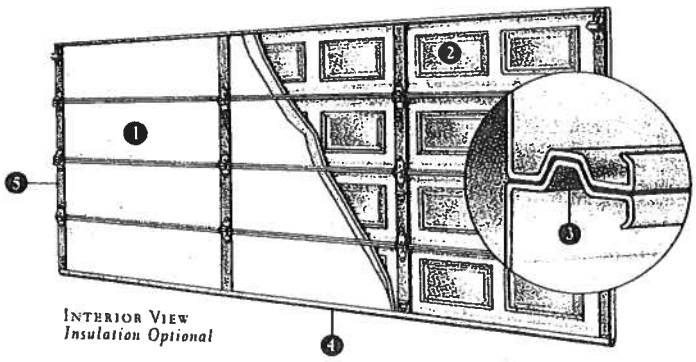
Photos and drawings shown meet future DASMA 116 requirements. Your door may be supplied with fewer lift handles. To continue its Program of Quality and Design Improvements, Amarr Reserves the Right to Change Specifications and Designs Without Notice and Without Incurring Obligations.

BASIC

Stratford Series

Product Classification	BEST WeatherGuard	BETTER Heritage	BASIC Stratford

Even our most basic door offers you durable, heavy-gauge steel construction. Available with or without insulation, the Stratford Series also allows you to customize with our broad selection of window and trim options.



Interior View
Insulation Optional

1 Stratford Insulated doors feature an exterior layer of heavy-gauge steel and an interior layer of insulation.

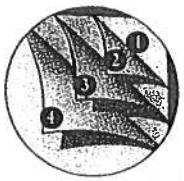
2 Stratford non-insulated doors consist of a single-layer of heavy-gauge steel.

3 Tongue-and-groove joints seal the gap between sections more tightly than ship-lap joints. They eliminate drafts and offer stability and superior protection against the elements.

4 The Weather Seal, held in place with an aluminum retainer, provides a flexible, contoured vinyl seal between the door and floor to help prevent outside air, dirt, dust, and moisture from seeping in.

5 Galvanized end and center stiles are both durable and functional.

Every Amarr Door Is Built For Good



1 Every Amarr garage door is constructed of rugged, real gauge steel. Beware of nominal gauge steel numbers.
2 We help prevent rusting with the best process available: hot-dip galvanizing.
3-4 Amarr doors feature a two-step paint system that includes (3) a primer coat and (4) a tough polyester top-coat that requires no painting.
Warranted To Last: Amarr's powerful warranties cover paint, finish, adhesive, and hardware.

15-Year Limited Warranty

The Stratford Series features a limited 15 year warranty on paint and finish, and 1-year on hardware.

Amarr Garage Doors

Built For Good.™

5931 Grassy Creek Blvd.
Winston-Salem, NC 27105

336.744.5100 • 800.503.DOOR
Fax 336.744.0895 • www.amarr.com

Your Local Amarr Dealer:

P. O. BOX 114
LAKE CITY, FL 32056-0114

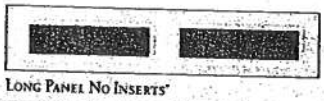
Printed in USA Form #5040101/75M/HA

DecraTrim Window Accents

Add visual interest to your windows with a variety of color-matched, easy-to-snap-in DecraTrim inserts available in either short or long panel designs.

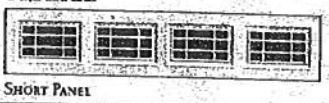
GLAZED WINDOW

Short Panel No Inserts (Not available on 15'6" (472.35 cm) 15'8" (477.52 cm))

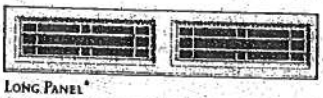


Long Panel No Inserts*

PRAIRIE

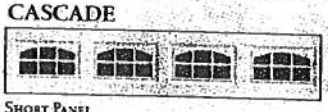


Short Panel

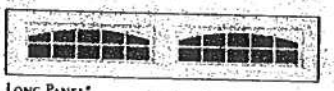


Long Panel*

CASCADE



Short Panel



Long Panel*

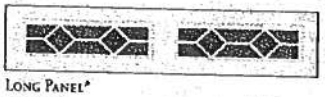
CATHEDRAL

Short Panel

Long Panel*

WATERFORD

Short Panel



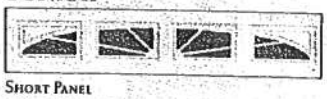
Long Panel*

WAGON WHEEL

Short Panel

Long Panel*

SUNRAY



Short Panel

Long Panel*

FULL SUNRAY

Short Panel

Only available on 16' (487.68 cm) 17' (518.16 cm) 18' (548.64 cm)

Long Panel*

Only available on 15' (457.20 cm), 15'6" (472.44 cm), 15'8" (477.52 cm), 16' (487.68 cm), 17' (518.16 cm), 18' (548.64 cm)

DecraGlass™ Windows

Add a touch of elegance with translucent, tempered DecraGlass, featuring V-groove etching. (Available in short or long panel.)

CHALET

Brass Came & Etched Design

RIVIERA

V-Groove Etched Design

VICTORIAN

V-Groove Etched Design

DecraTrim and DecraGlass Windows not available for 15'6" and 15'8" short panel doors.

The Amarr Philosophy

Since 1951, we have successfully raised the standards of quality, value, and dependability in our industry. Today, with the same promise of individual attention and great value for all our customers, we remain committed to offering products and services that raise those standards even higher.

Richard A. Brenner, President

To Continue its Program of Quality and Design Improvements, Amarr Reserves the Right to Change Specifications and Designs Without Notice and Without Incurring Obligations.

BEST

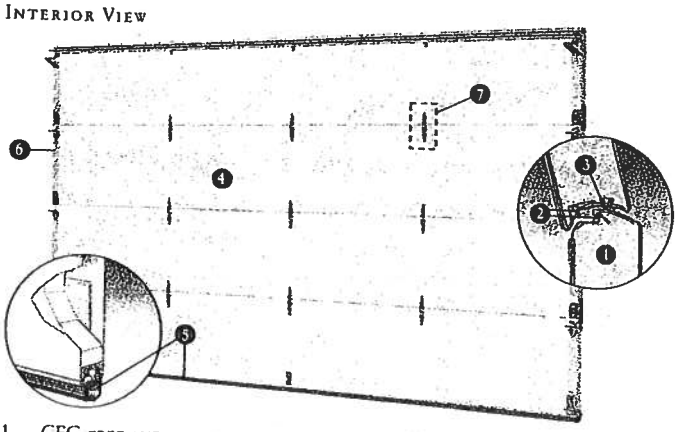
WeatherGuard™ Series

Featuring our **DuraSafe System**

Product Classification	BEST WeatherGuard	BETTER Heritage	BASIC Stratford

DuraSafe System features include inboard design center hinges and end hinges, new pinch resistant sections, and tamper proof bottom bracket. These features result in a new state of the art design for overall homeowner safety, as well as a more finished interior appearance.

Interior View



1 CFC-free and environmentally safe polystyrene insulation provides an energy-saving barrier against extreme temperatures.

2 WeatherGuard PRO-Bond unites exterior and interior steel surfaces to create a thermal barrier against heat and cold.

3 Exclusive Amarr Wear-Seal features an air-tight thermal seal between individual door sections, eliminating drafts and extending the life of your door.

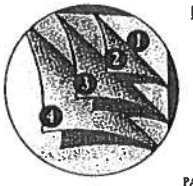
4 A finished interior of painted steel and flush hinge design makes your door look great both inside and out.

5 The Weather Seal, held in place with an aluminum retainer, provides a flexible, contoured vinyl seal between the door and floor to help prevent outside air, dirt, dust, and moisture from seeping in.

6 Painted end stiles add a finished touch to your garage.

7 Steel support plates are located under each hinge location and are pre-punched for hinge attachment.

Every Amarr Door Is Built For Good



1 Every Amarr garage door is constructed of rugged, real gauge steel. Beware of nominal gauge steel numbers.

2 We help prevent rusting with the best process available: hot-dip galvanizing.

3-4 Amarr doors feature a two-step paint system that includes (3) a primer coat and (4) a tough polyester top-coat that requires no painting.

Warranted To Last: Amarr's powerful warranties cover paint, finish, adhesive, and hardware.

Lifetime Limited Warranty

The WeatherGuard Plus comes with a limited lifetime warranty on paint, finish, and hardware.

The WeatherGuard features a limited lifetime warranty on paint and finish, and a 3-year hardware warranty.

Amarr

Built For Good.™

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Winston-Salem, NC 27105

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Your Local Amarr Dealer:

LAKE CITY GLASS
P. O. BOX 114
LAKE CITY, FL 32056-0114

Printed in USA Form #5050101/75M/HA

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
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CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Outswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.21
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.23 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Outswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-O, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door with Sidelites in a Wood Frames with Bumper Threshold (Outswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
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CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.24
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.24

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.26 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EW-1, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.24

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.18
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.20 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door in Wood Frames with a Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2. Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit will not require a hurricane protection system.

4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

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   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

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9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.18
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.20 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door in Wood Frames with a Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2. Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit will not require a hurricane protection system.

4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

AAMA/NWWDA 101/I.S. 2-97
TEST REPORT

Rendered to:

SPECIALTY WINDOWS

SERIES/MODEL: Series 1900
TYPE: PVC Single Hung

Title of Test	Summary of Results
Rating	H-R50 44 x 96
Overall Design Pressure	50 psf
Operating Force	8 lbs max.
Air Infiltration	0.08 cfm/ft^2
Water Resistance	7.50 psf
Structural Test Pressure	±75.0 psf
Deglazing	Pass
Forced Entry Resistance	Pass Level 10

Reference should be made to full report for test specimen description and data.

Allen N. Reuss
30 APRIL 2002

Report No: 07-30215.02
Report Date: 04/30/02
Expiration Date: 11/08/05

Architectural Testing

AAMA/NWWDA 101/I.S. 2-97 TEST REPORT

Rendered to:

SPECIALTY WINDOWS
5520 Industrial Boulevard
Milton, Florida 32583

Report No:	07-30215.02
Test Date:	11/08/01
Report Date:	04/30/02
Expiration Date:	11/08/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Dayton Technologies, LLC to witness tests performed on one Dayton Series/Model 190.093 SH, PVC single hung window at their Monroe, Ohio, facility. The sample tested successfully met the performance requirements for a H-R50 44 x 96 rating. This test report is a reissue of the original report 07-30215.01. This report is issued in the name of Specialty Windows through written authorization of Dayton Technologies, LLC. Test specimen descriptions and results are reported herein.

Test Procedure: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S. 2-97, *"Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors."*

Test Specimen Description:

Series/Model: Series 1900

Type: PVC Single Hung Window

Overall Size: 3' 7-7/8" wide by 7' 11-3/4" high

Sash Size: 3' 4-3/4" wide by 2' 4-1/2" high

Fixed Daylight Opening Size: 3' 2-3/8" wide by 5' 2-3/4" high

Screen Size: 3' 3-1/4" wide by 2' 3-9/16" high

Glass Type: Nominal 3/4" thick insulating glass fabricated from two sheets 1/8" thick clear tempered sheets with a spacer system.

Reinforcement: Aluminum reinforcement was utilized in fixed meeting rail and bottom lift rail. See Dayton Technologies drawings #6189 and #A6202.

Finish: White PVC.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen N. Reamer
30 APRIL 2002

Test Specimen Description: (Continued)

Glazing Details: The fixed sash was interior wet glazed with silicone and secured with interior PVC snap in beads. The operable sash were exterior wet glazed with silicone with exterior and secured with exterior PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
Bulb (P82060-F)	1 Row	Lift rail
0.290" high by 0.187" back pile with center fin	1 Row	Sill and operable sash meeting rail
0.290" high by 0.187" back pile with center fin	2 Rows	Bottom sash stile

Frame Construction: The frame was constructed of extruded PVC members with mitered and thermally welded corners. The fixed meeting rail was secured with #6 by 1-1/2" steel screws through exterior of jamb into aluminum reinforcement at midpoint of jambs (two total).

Sash Construction: The sash was constructed of extruded PVC members with mitered and thermally welded corners.

Screen Construction: The screen frame was constructed of extruded aluminum with PVC corner keys. Fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Cam lock	2	8" from jambs, 25" apart
Tilt latch	2	Upper sash corners
Tilt pin	2	Lower sash corners
Coil balance	2	One in each jamb

Allen N. Reeves
30 APRIL 2002

Test Specimen Description: (Continued)

Drainage: Sloped sill

Description	Quantity	Location
1" wide by 1/8" high weepslot	2	Screen slot
3/8" wide by 3/16" high weepslot	2	Bottom lift rail
1/4" hole	2	Fixed meeting rail

Installation: The test sample was installed into a nominal 2" by 12" #2 Southern pine wood buck with #6 by 1-1/2" steel screws into jambs, 6" up from sill and 6" down from head, (four total). Exterior perimeter was sealed with silicone.

Test Results: The results are tabulated as follows.

Paragraph	Title of Test	Results	Allowed
2.2.1.6.1	Operating Force Lower Sash	8 lbs	30 lbs max.
2.1.2	Air Infiltration (ASTM E 283-91) (See Note #1) @ 1.56 psf (25 mph)	0.08 cfm/ft^2	0.30 cfm/ft^2 max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration

2.1.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) @ 15.0 psf (positive) @ 15.0 psf (negative)	 0.17" 0.16"	 0.22" max. 0.22" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) @ 22.5 psf (positive) @ 22.5 psf (negative)	 0.02" 0.02"	 0.15" max. 0.15" max.

Allen N. Reas
30 APRIL 2002

Test Results: (Continued)

Paragraph	Title of Test	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction @ 70 lbs		
	Lower Sash		
	Meeting Rail	0.04"/8%	0.50"/100%
	Bottom Rail	0.04"/8%	0.50"/100%
	In remaining direction @ 50 lbs		
	Right stile	0.02"/4%	0.50"/100%
	Bottom Rail	0.02"/4%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance (ASTM F 588-97) (Unit was tested with single and double locks)		
	Type A Grade 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance:			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP =7.50 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 50.0 psf (positive)	0.69"*	0.22" max.
	@ 50.0 psf (negative)	0.64"*	0.22" max.
4.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 75.0 psf (positive)	0.15"	0.15" max.
	@ 75.0 psf (negative)	0.15"	0.15" max.

**Exceeds L/175 for deflection, but meets all other test requirements.*

Allen N. Reese
30 APRIL 2002

This report is reissued in the name of Specialty Windows through written authorization of Dayton Technologies, LLC to whom the original report was rendered. The original Dayton Technologies, LLC Report No. is 07-30215.01.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC.:

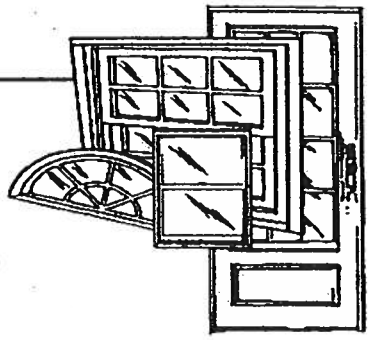
Larry D. Mankin
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
30 APRIL 2002

LDM:nlb
07-30215.02

CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822
(407)-384-7744 • Fax (407)-384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch@bellsouth.net



Report Number: CTLA-619W
Report Date October 26, 2000

STRUCTURAL PERFORMANCE TEST REPORT

Client: **Specialty Window of Florida**
690 Heinberg Street
Pensacola, Florida 32501

Product Type and Series: Series Vinyl Fin Frame Picture Window F-HC 80 (85" x 85")

Test Specifications: AAMA/NWWDA 101/I.S. 2-97 "Voluntary Specification for Aluminum Vinyl (PVC) and Wood Window and Glass Door".

Test Specimen

Frame: The vinyl fin frame measured 85.25" x 85.25" overall, miter and welded corner construction. With clear lite opening measuring 82" x 82".

Glazing: 1/4" Tempered glass. Interior glazed with silicone backbedding compound.

Sealant: Silicone caulk was used on perimeter of main frame

Weepholes: N/A

Reinforcement: N/A

Additional Description: N/A

Screen: N/A

Installation: Fifty six (56) # 10 x 2" phillips pan head were used to secure the specimen to the wooden test buck. Fourteen (14) in each of the main frame member located 4",11",15",23",29",35",41",47", 53",59",65",71",77",and 83", measuring from left to right head and sill and measuring from head to sill on jambs.

Surface Finish: White

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @ 6.24 psf	ASTM E283-91	.0 cfm/ft²	.3 cfm/ft²
	The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for Air Infiltration.			
2.1.3/4.3	Water Resistance 5.0 gph/ft²	ASTM E547-93 Four (4), five minute cycles	No Entry	No Entry
	WTP=12PSF	ASTM E331-93 Fifteen (15)minute duration	No Entry	No Entry
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation	ASTM E330-90 Ten (10) seconds loads		
	@ 120 psf Positive		.00"	.336"
	@ 120 psf Negative		.00"	.336"
2.1.7	Corner Weld Test	AAMA 101/I.S.2-97	Passed	Passed
2.1.8	Forced Entry Resistance T-1 = 10 minutes.	ASTM F588-97 Test D Window Assemblies	Passed	Passed
	Tools used: A spatula (10.1.1.1) and a piece of stiff wire (10.1.1.2) The test specimen meets the performance Grade 40			

Test Date: October 17, 2000

Test Completion Date: October 17, 2000

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the clients is accurate and that the physical and chemical properties of the components as stated by the manufacture.

Certified Testing Laboratories, Inc.

Christopher Bennett
Lab Manager
Architectural Division

P.E.
11/7/00

cc NAMI (2)
Specialty (2)
Ramesh Patel P.E.
File

received
3.27.02

Underwriters Laboratories Inc.®

333 Pfingsten Road
Northbrook, Illinois 60062-2096
United States Country Code (1)
(847) 272-8800
FAX No. (847) 272-8129
http://www.ul.com

March 4, 2002

GAF Materials Corporation
Mr Randall Ziegler
1361 Alps Road
Wayne, NJ 07470

Our Reference: R21

Subject: UL Listed products

Dear Mr Ziegler:

This is is response to your request to identify some of the products that are curently Listed with Underwriters Laboratories relating to various Standards. Following are those products:

Royal Sovereign®
Marquis®/Marquis® WeatherMax®
SLATELINE®
Grand canyon™
Grand Sequoia®
Country Mansion™
Country Estates™
Timberline 30™
Timberline Select™ 40
Timberline Ultra™
Sentinel®

The above products have been tested to ASTM D3462 , Class A UL790/ASTM E108 and UL 997/ ASTM D3161(secured with 4 nails)with velocities up to 110 mph and have successfully met those test criteria.

If you have any questions please feel free to contact the writer.

Very truly yours,

Roger Anderson (Ext. 43283)
Senior Engineering Associate
Conformity Assessment Services- 3011E-NBK

Reviewed by,

Douglas C. Miller (Ext. 43262)
Engineering Group Leader
Conformity Assessment Services- 3011E-NBK

** TOTAL PAGE.01 **

GAF®
GAF MATERIALS CORPORATION

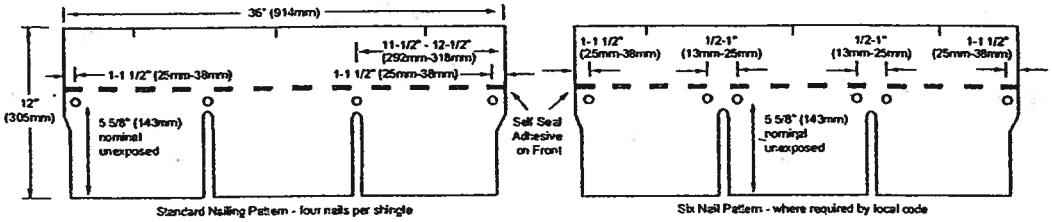
MARQUIS WeatherMax® SHINGLES

ROYAL SOVEREIGN® SHINGLES

SENTINEL® SHINGLES

APPLICATION INSTRUCTIONS

Note: These shingles must be nailed a nominal 5 5/8" (143mm) from bottom of shingles, not in or above self seal, as shown. Nails should remain unexposed.



Standard Nailing Pattern - four nails per shingle

Six Nail Pattern - where required by local code

GENERAL INSTRUCTIONS

• **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayments as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.

• **UNDERLAYMENT:** Underlayment is required on new construction and required for reroofing when old roof is removed from the deck. Use only "breather type" material like GAF Materials Corporation Shingle-Mate® Underlayment or equivalent. Underlayments must be installed flat, without wrinkles.

• **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5 5/8" (143mm) up from the bottom of the shingle. Fasteners must be installed approximately 1"- 1 1/2" (25-38mm) and 11 1/2"- 12 1/2" (292-318mm) from each side.

• **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply 2 quarter-sized dabs of shingle tab adhesive on the back of each tab, approximately 1" (25mm) from end and 1" (25mm) up from bottom of each tab corner. The shingle must be pressed firmly into the adhesive.
NOTE: Application of excess tab adhesive can cause blistering of the shingle.
For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.
NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

• **CANADIAN COLD WEATHER APPLICATIONS:** CSA A123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.

• **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21" (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 2 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.

• **EXPOSURE:** 5" (127mm)

• **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.

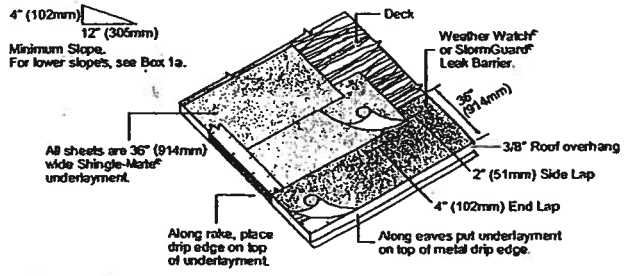
• **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

• **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope–4/12 (333mm/m) or more

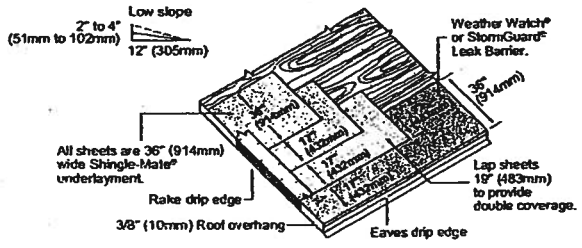
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



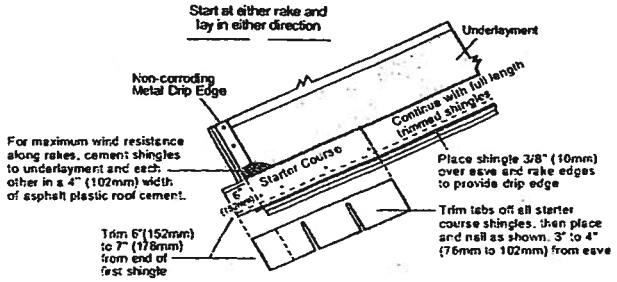
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate® underlayment.



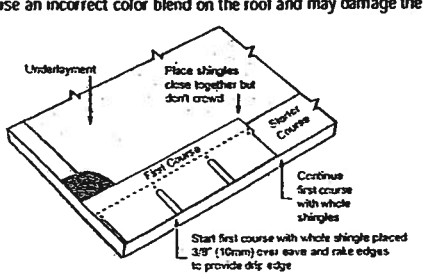
2 Starter Course

Use of any GAF MC 3-tab Shingle is recommended. Apply as shown.



3 First Course

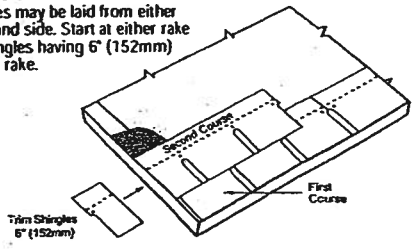
Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



4 Second Course

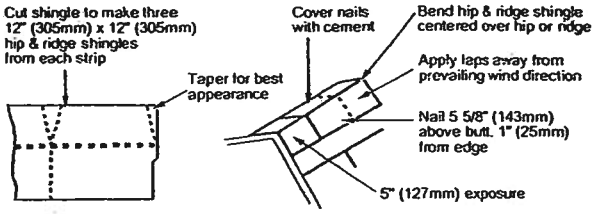
Start and continue second course and all even numbered courses as shown. Position the shingle on the top of the cutouts of the underlying shingle so that there will be 5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied self-sealing dots on lower courses are designed to seal down the shingle tabs in an upper course.

NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.

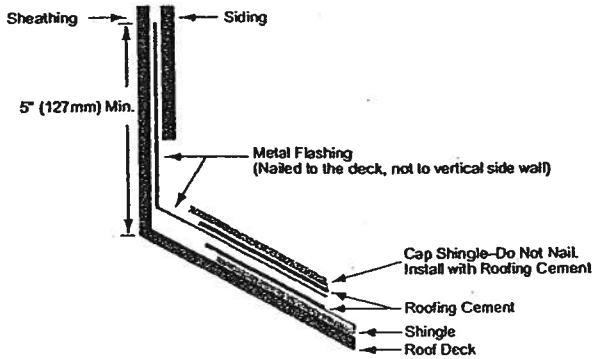


5 Hip and Ridge

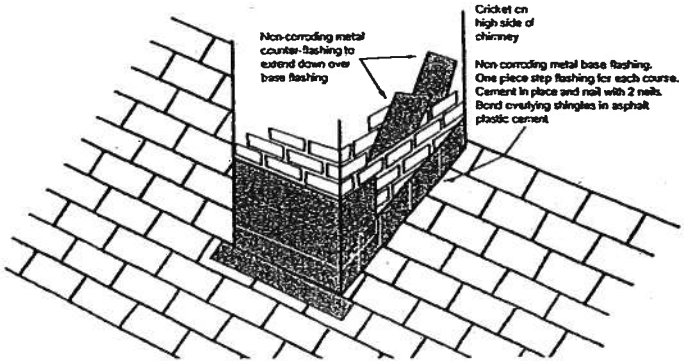
Use GAF hip & ridge shingles, or cut hip & ridge shingles from these full shingles, and apply as shown. Position laps away from prevailing wind direction.



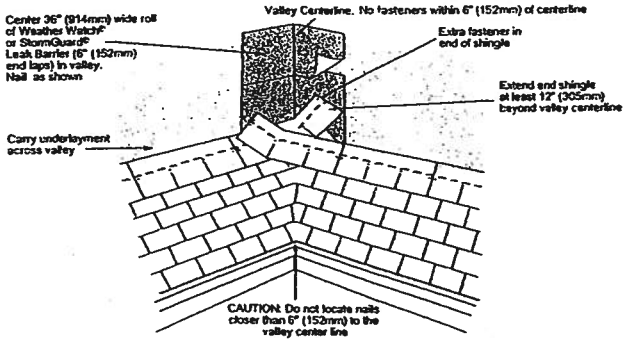
6 Wall Flashing (Sloped Roof to Vertical Wall)



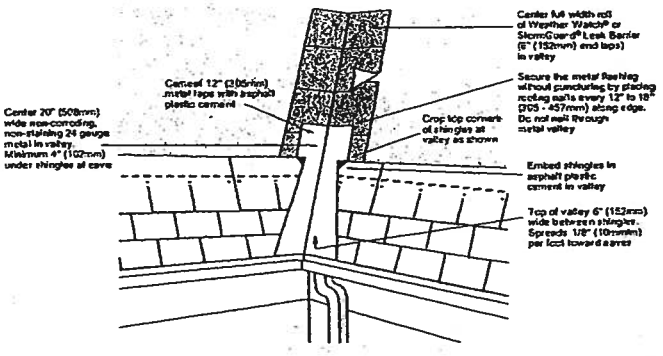
7 Chimney Flashing



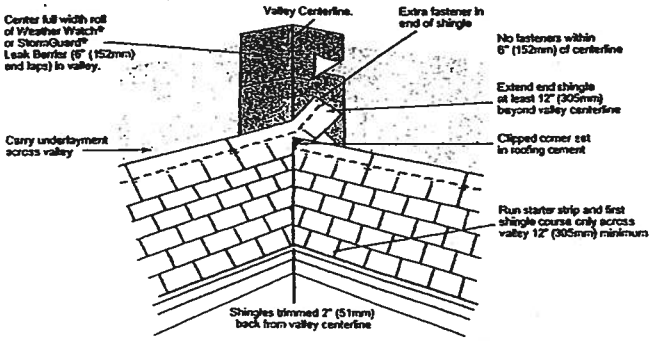
8 Valley Construction - Closed or Woven Valley



9 Valley Construction–Open Cut



10 Valley Construction–Closed Cut



Precautionary Notes

These shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area–maximum temperature 110°F (43°C.) Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

Re-Roofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application. *Note:* Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.

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ENGLISH 110600

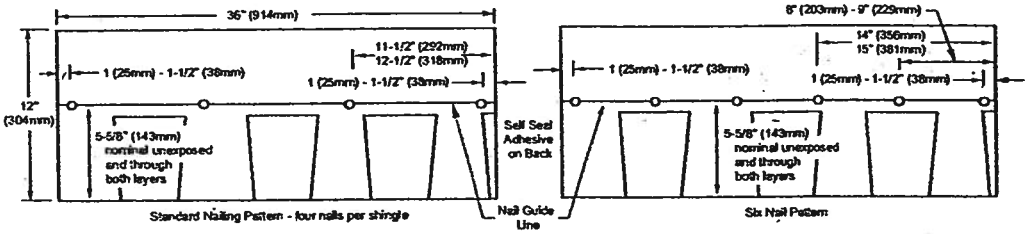
GAF
GAF MATERIALS CORPORATION

TIMBERLINE® Ultra® SHINGLES
TIMBERLINE® SELECT 40 SHINGLES
TIMBERLINE® 30 SHINGLES

APPLICATION INSTRUCTIONS

Timberline® Series shingles come in either 36" (914mm) or 36-15/16" (938mm) lengths, depending on shingle brand. Application instructions apply to both.

These shingles must be nailed a nominal 5-5/8" (143mm) from bottom of shingles, as shown, to allow for penetration through the double ply area just above the tabs. Nails should remain unexposed.



GENERAL INSTRUCTIONS

- **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayments as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.
- **UNDERLAYMENT:** Underlayment beneath shingles has many benefits, including preventing wind driven rain from reaching the interior of the building and preventing sap in some wood decking from reacting with asphalt shingles. Underlayment is also required by many code bodies. Consult your local building department for its requirements. Where an underlayment is to be installed, a breather-type underlayment such as GAFMC's Shingle-Mate® underlayment is recommended. Underlayment must be installed flat, without wrinkles.
- **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5-5/8" (143mm) up from the bottom of the shingle, to penetrate both layers of the shingle. Fasteners must be installed approximately 1"- 1 1/2" (25-38mm) and 11-1/2"-12-1/2" (292-318mm) from each side.
- **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply 4 quarter-sized dabs of shingle tab adhesive on the back of the shingle 1" (25mm) and 13" (330mm) in from each side and 1" (25mm) up from bottom of the shingle. The shingle must be pressed firmly into the adhesive.

NOTE: Application of excess tab adhesive can cause blistering of the shingle.

For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

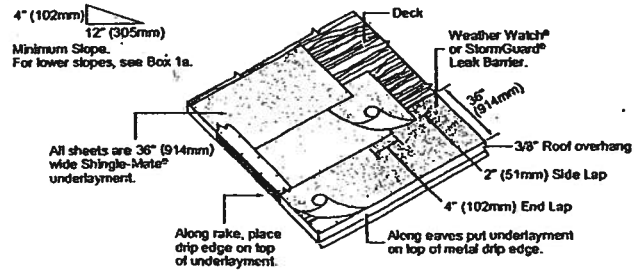
NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

- **CANADIAN COLD WEATHER APPLICATIONS:** CSA 123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.
- **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21" (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 4 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.
- **EXPOSURE:** 5" (127mm)
- **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.
- **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.
- **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope–4/12 (333mm/m) or more

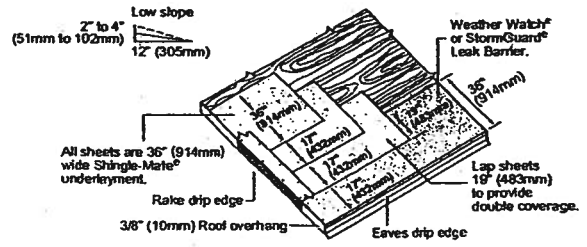
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



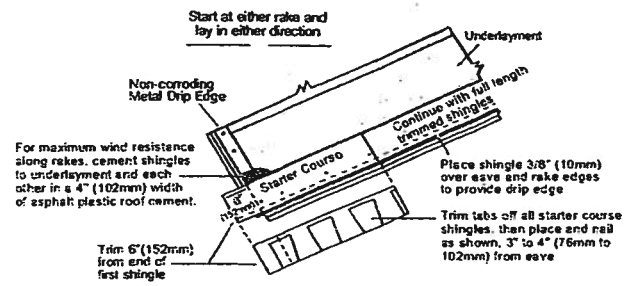
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate® underlayment.



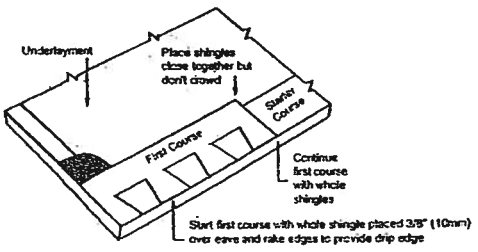
2 Starter Course

Apply as shown.



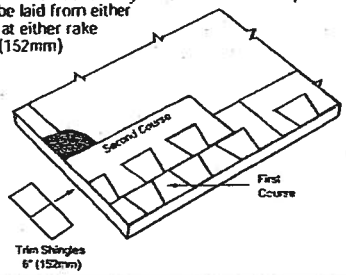
3 First Course

Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



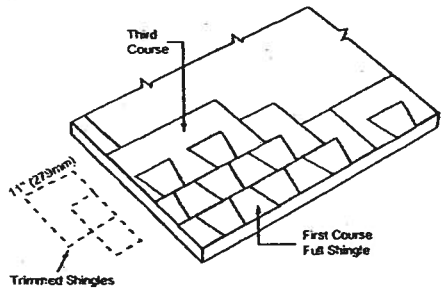
4 Second Course

Start and continue second course as shown. Trim 6" (152mm) from the end of the shingle. Position the shingles in the second and subsequent courses flush with the tops of the wide cutouts. This results in a 5" (127mm) exposure. Continue with full width shingles across the roof. Strike a chalk line about every 6 courses to check parallel alignment with eaves. NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.



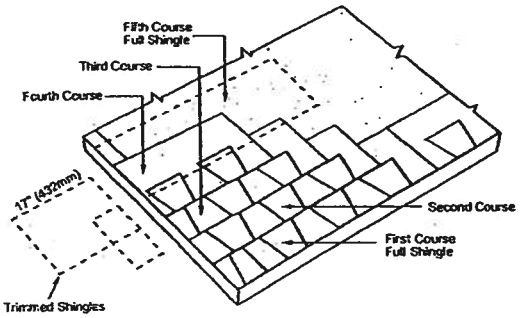
5 Third Course

Trim 11" (279mm) from the first shingle in the course then continue with full shingles across the roof.



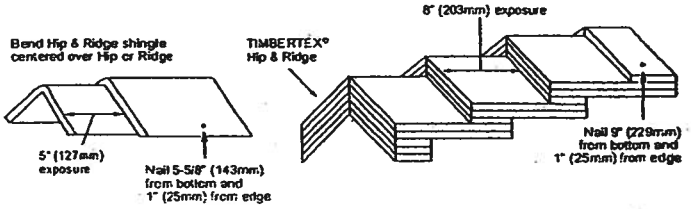
6 Fourth Course and Remaining Courses

Trim 17" (432 mm) from first shingle in the course, then continue with full shingles across the roof. Fifth and subsequent courses repeat full shingle instructions from Step 3.

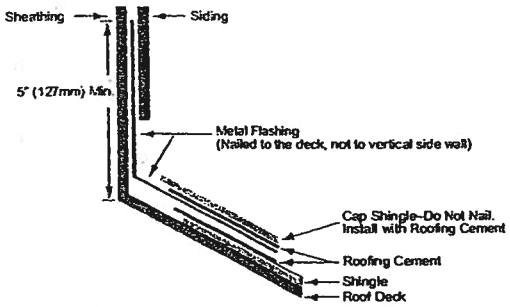


7 Hip and Ridge

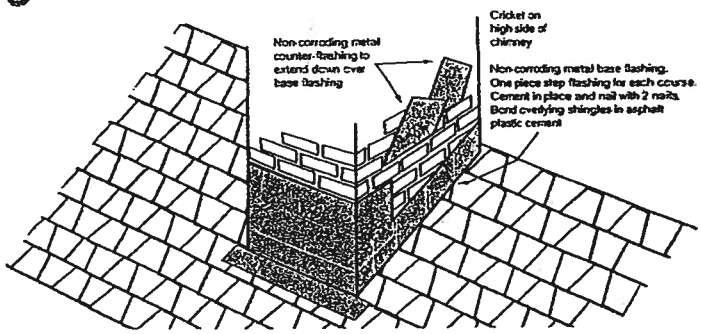
For single layer application, use hip and ridge shingles and apply as shown. To enhance appearance, use GAF TIMBERTEX® or a double layer application of Universal Hip & Ridge. (One bundle of TIMBERTEX® Hip & Ridge covers 20 lineal ft.–6.1 meters.) For double application, start with triple thickness of precut Hip & Ridge shingles and continue remainder with double thickness. Fasten in same manner as single application shown. Apply laps away from prevailing wind direction.



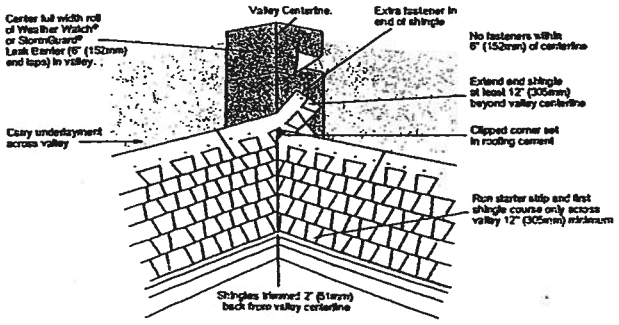
8 Wall Flashing (Sloped Roof to Vertical Wall)



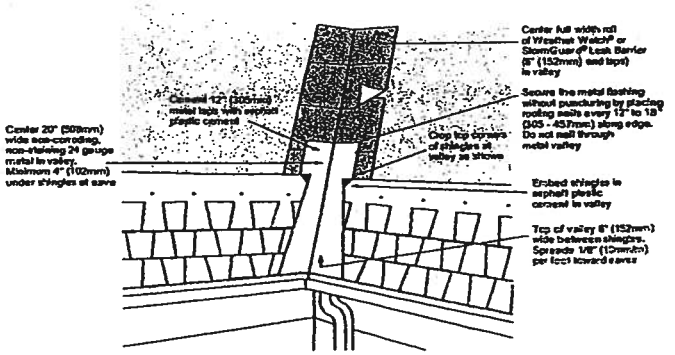
9 Chimney Flashing



10 Valley Construction–Closed Cut



11 Valley Construction–Open



Precautionary Notes

Timberline® Series shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area–maximum temperature 110°F (43°C.) Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

Re-Roofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application.

Note: Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.

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ENGLISH 121201

TAMKO
ROOFING PRODUCTS

received
3.27.02

FEB - 4 2002

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

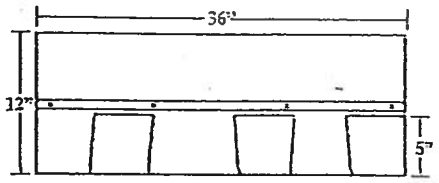
TAMKO Roofing Products, Inc.

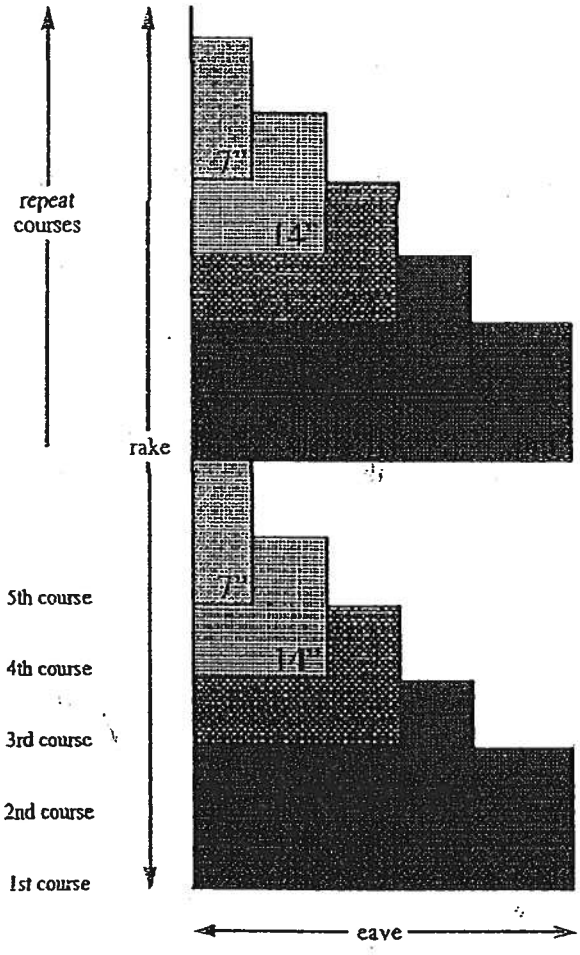
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

TAMKO
ROOFING PRODUCTS

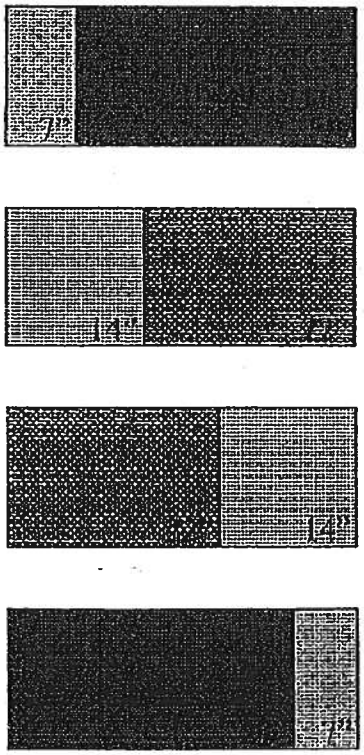
Application Instructions For Heritage® 40 & 30 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	36"
Width	12"
Bundles per Sq.	4
Shingles per Sq.	80
Shingles per Bundle	20
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

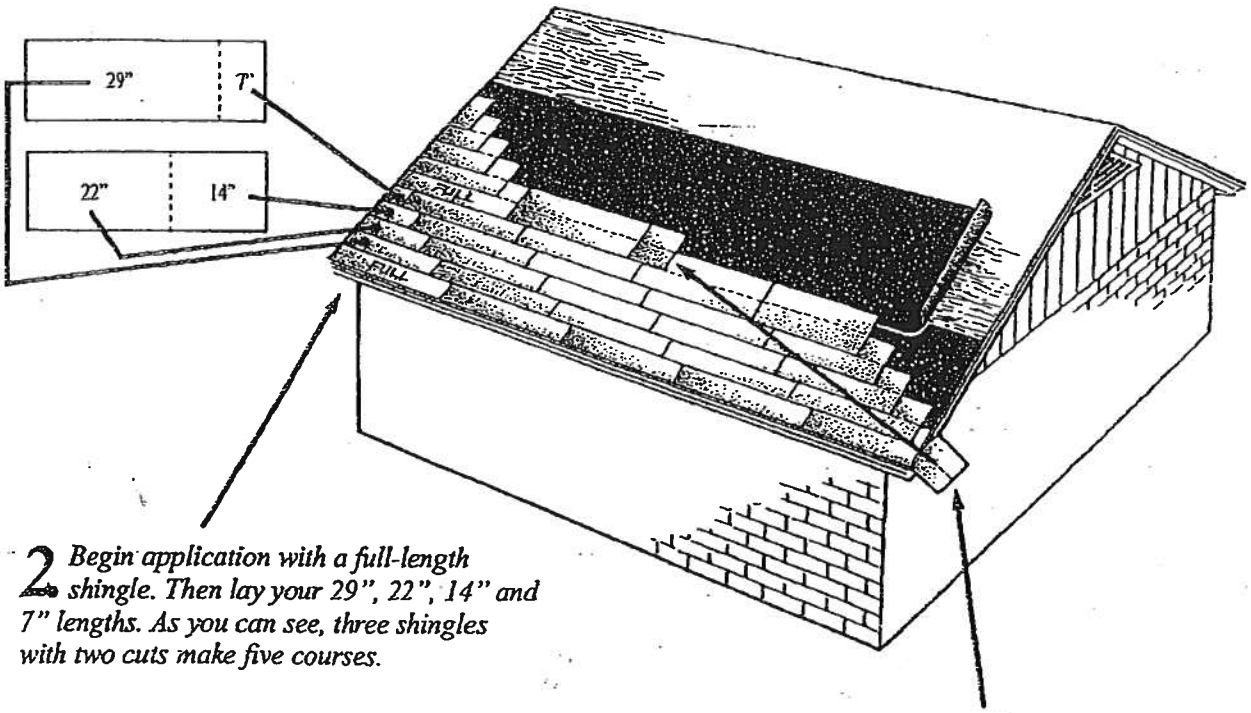
NOTE: These application instructions apply only to Heritage 40, Heritage 30, Heritage 40 AR, and Heritage 30 AR shingles.

TAMKO ROOFING PRODUCTS

Application Instructions For Heritage® 40 & 30 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and a 7" length. Cut a second shingle to make a 22" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 22", 14" and 7" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

997494

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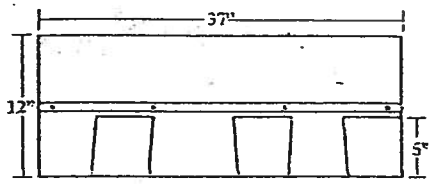
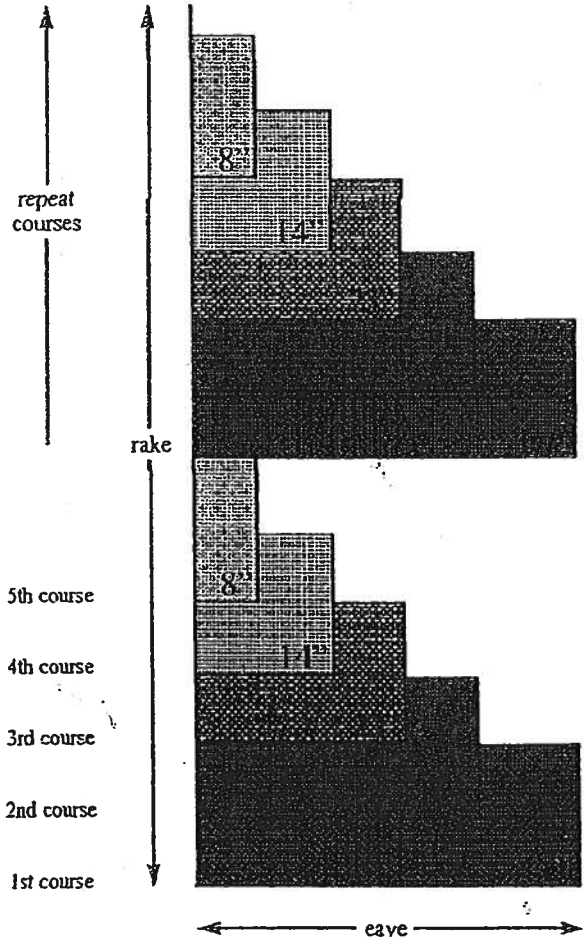
SP28912

TAMKO
ROOFING PRODUCTS

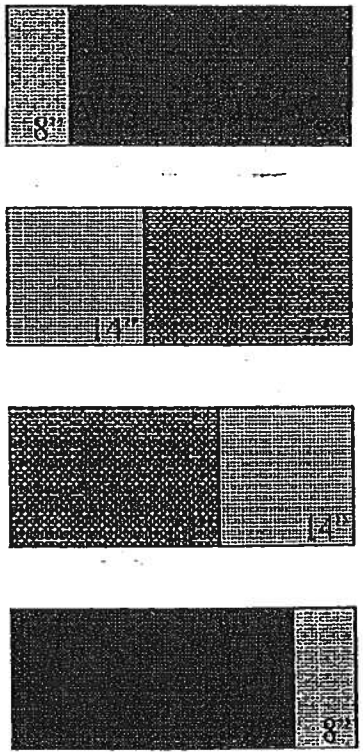
Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

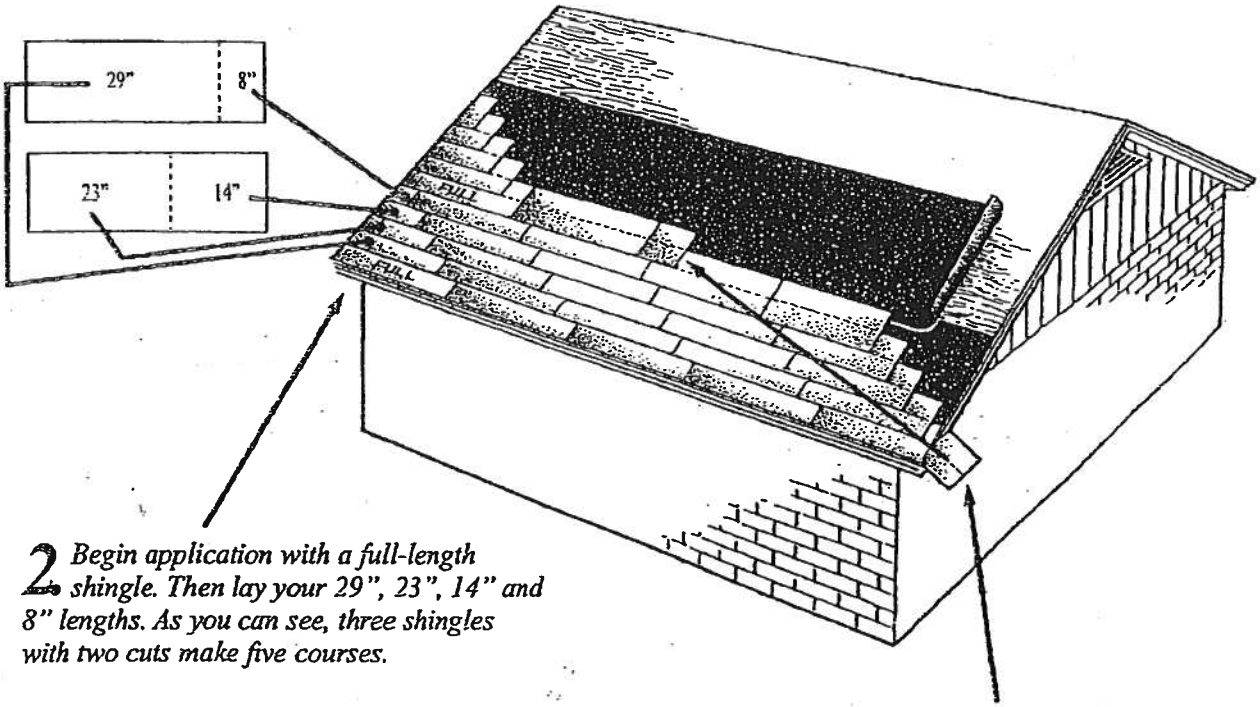
NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 25 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and an 8" length. Cut a second shingle to make a 23" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 23", 14" and 8" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

997493

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TAMKO®
ROOFING PRODUCTS

Application Instructions for

- Glass-Seal
- Glass-Seal AR
- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.
IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.
FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

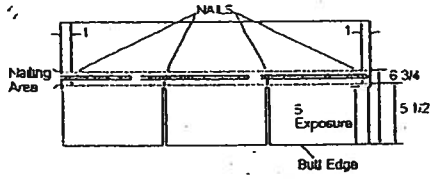
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

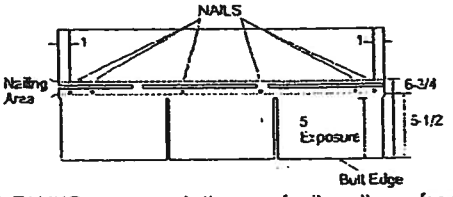
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

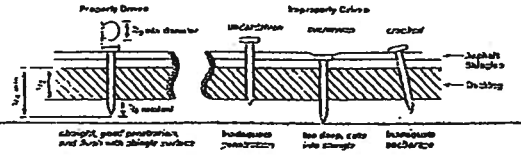
(CONTINUED from Pg. 1)

TAMKO ROOFING PRODUCTS

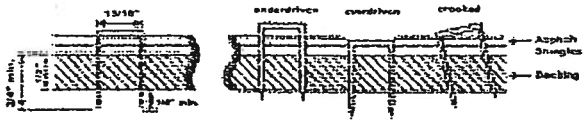
- Glass-Seal
- Glass-Seal AR
- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



STAPLES: If staples are used in the attaching process, follow the above instructions for placement. All staples must be driven with pneumatic staplers. The staple must meet the following minimum dimensional requirements. Staples must be made from a minimum 16 gauge galvanized wire. Crown width must be at least 15/16 in. (staple crown width is measured outside the legs). Leg length should be a minimum of 1-1/4 in. for new construction and 1-1/2 in. for reroofing thus allowing a minimum deck penetration of 3/4 in. The crown of the staple must be parallel to the length of the shingle. The staple crown should be driven flush with the shingle surface. Staples that are crooked, underdriven or overdriven are considered improperly applied.



CAUTION: DO NOT FASTEN INTO THE FACTORY APPLIED ADHESIVE.

4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles which is not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I
- Any TAMKO non-perforated asphalt saturated organic felt

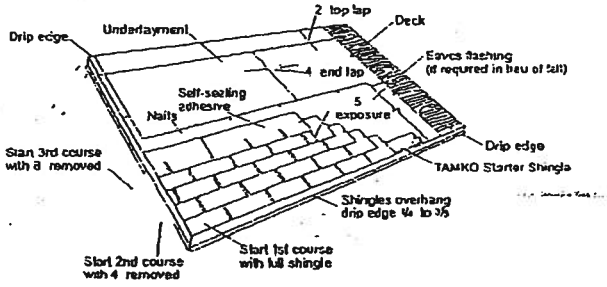
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: A starter course may consist of TAMKO Shingle Starter, self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. Attach the starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eaves edge. The starter course should overhang both the eaves and rake edges 1/4 in. to 3/8 in. If a roll roofing is used, seal down the shingles in the first course by applying adhesive cement in four spots equally spaced to the surface of the starter strip and press the shingle down on the spots of cement. Plastic cement should be used sparingly, as excessive amounts may cause blistering.

SHINGLE APPLICATION: There are three different offset methods for applying strip shingles: the 4-inch method, the 5-inch method and the 6-inch method. By removing different lengths from the first shingle, cutouts in one course of shingles do not line up directly with those of the course below. It is recommended that the shingles be laid according to one of these methods consistent with procedures outlined in ARMA's Residential Asphalt Roofing Manual. This panel will feature the 4-inch method. For information regarding the other methods, please refer to the ARMA Residential Asphalt Roofing Manual.
CAUTION: Never use an alignment system where shingle joints are closer than 4 in. to one another.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of asphalt saturated felt. Begin by applying the felt in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the felts to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus® self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. MANSARD ROOF OR STEEP SLOPE ROOF

If the slope exceeds 21 in. per foot (60°), each shingle must be sealed

(Continued)

(CONTINUED from Pg. 2)

TAMKO
ROOFING PRODUCTS

• Glass-Seal • Elite Glass-Seal®
• Glass-Seal AR • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

8. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

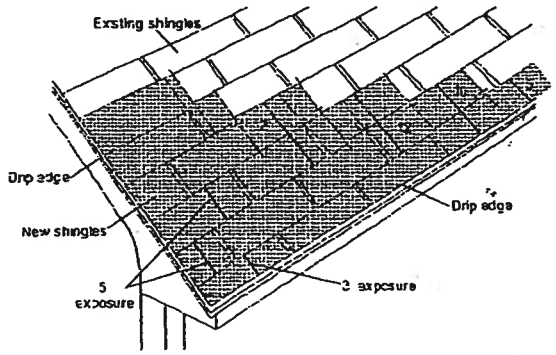
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.



9. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

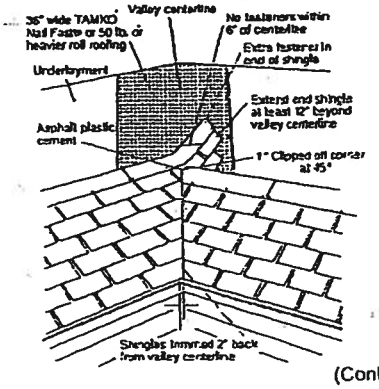
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

- ***CAUTION:*** *Adhesive must be applied in smooth, thin, even layers.*

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



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(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

- Glass-Seal
- Glass-Seal AR
- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

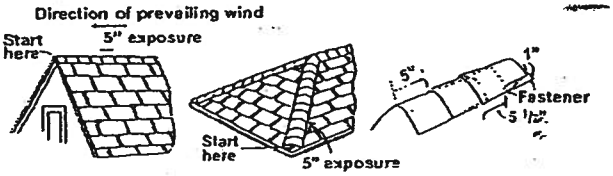
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

received
3.27.02

ELK Premium Roofing

March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:
ASTM D3462
PA 100 (110 mph uplift and wind driven rain resistance)
PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –
PA 100 = 4 nails
PA 107 = 4 nails
MD NOA# = 01-1226.03

Capstone*
PA 100 = 4 Nails
PA 107 = 4 Nails
MD NOA# = 01-0523.01

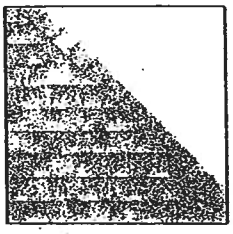
* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

Mike Reed – Technical Manager
(205) 342-0287

or

Daniel DeJarnette – QA Engineer
(205) 342-0298



PRESTIQUE® HIGH DEFINITION®

High Definition

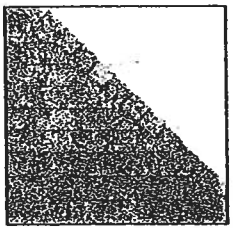
Product size	13¼"x 39⅜"	50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	11	

High Definition

Product size	13¼"x 39⅜"	40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	14	

High Definition

Product size	13¼"x 38¾"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	



RAISED PROFILE™

Product size	13¼"x 38¾"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅝"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

HIP AND RIDGE SHINGLES

Size: 12"x 12"
Exposure: 6⅝"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood. Gallery Collection: Balsam Forest**, Weathered Sage**, Sienna Sunset**.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.
**Check for product availability.

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes [4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

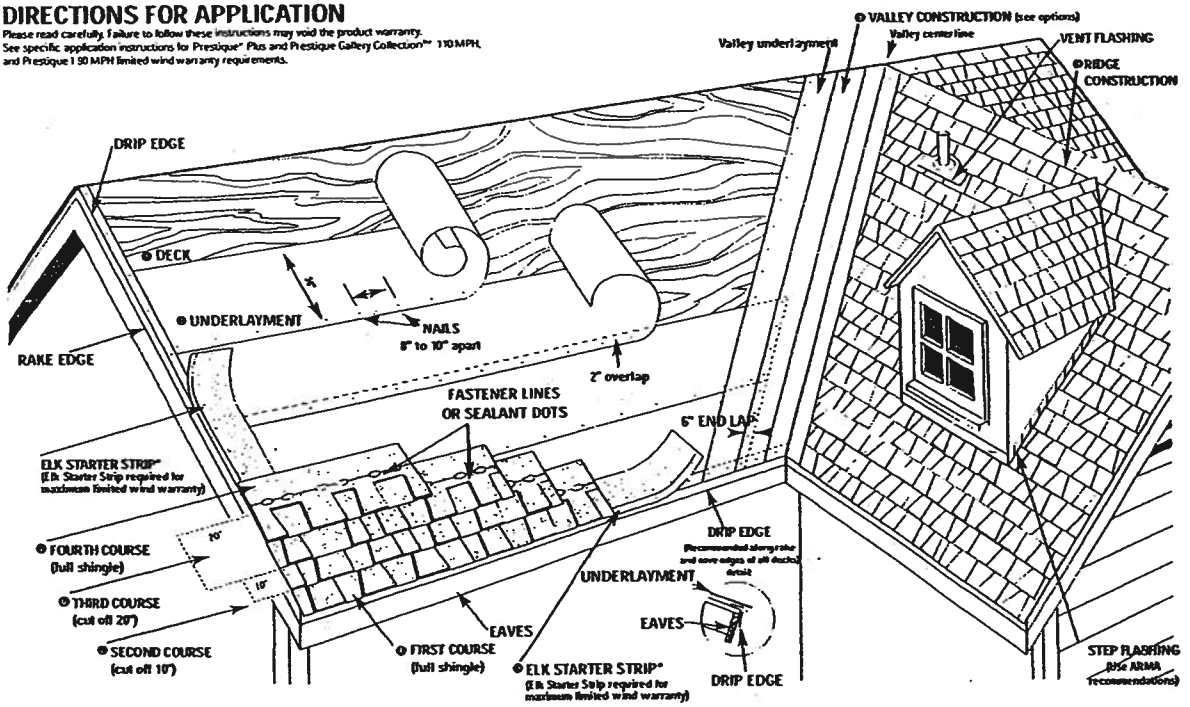
CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

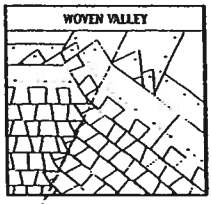
ELK
www.elkcorp.com

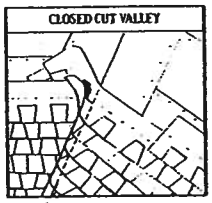
DIRECTIONS FOR APPLICATION

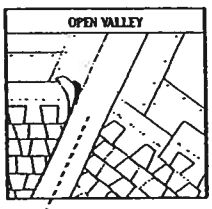
Please read carefully. Failure to follow these instructions may void the product warranty.
See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH, and Prestique I 90 MPH limited wind warranty requirements.



❸ VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.







DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❹ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

❷ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

❶ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

❷ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

❸ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

❸ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❻ RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula *FLX*™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

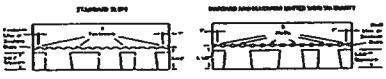
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

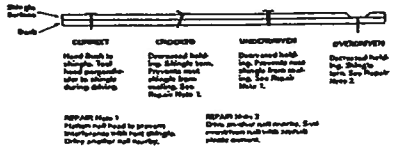
LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

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All trademarks, ®, are registered trademarks of Elk Corporation of Dallas, an ELCOR company. Raised Profile, RidgeCrest, Gallery Collection and FLX are trademarks pending registration of Elk Corporation of Dallas. UL is a registered trademark of Underwriters Laboratories, Inc.

ELK

www.elkcorp.com

Lake City Glass, Inc.

P. O. Box 114 ~ Lake City, FL 32056
Phone 386-752-6204 ~ Fax 386-752-5952 ~ Email lcglass@isgroup.net
1-877-735-7720

April 08, 2002

To: All Contractors

Since the new windload code has been enforced for the State of Florida we have had several calls wanting information regarding the test reports and pricing. The following prices and enclosures should answer most of your questions. However, if you need further information please contact myself or Carl Bullard, Jr. We will be happy to assist you.

Contractor Prices:
Stratford Series

16 x 7 Raised Panel Steel Door (non-windload)	$425.00
9 x 7 Raised Panel Steel Door (non-windload)	$325.00
8 x 7 Raised Panel Steel Door (non-windload)	$295.00

For 110 mph windload add:

16 x 7	$125.00
9 x 7	$ 45.00
8 x 7	$ 45.00

Note glass, inserts, and insulation are extra, please call for pricing. The above prices do not include sales tax.

Sincerely,

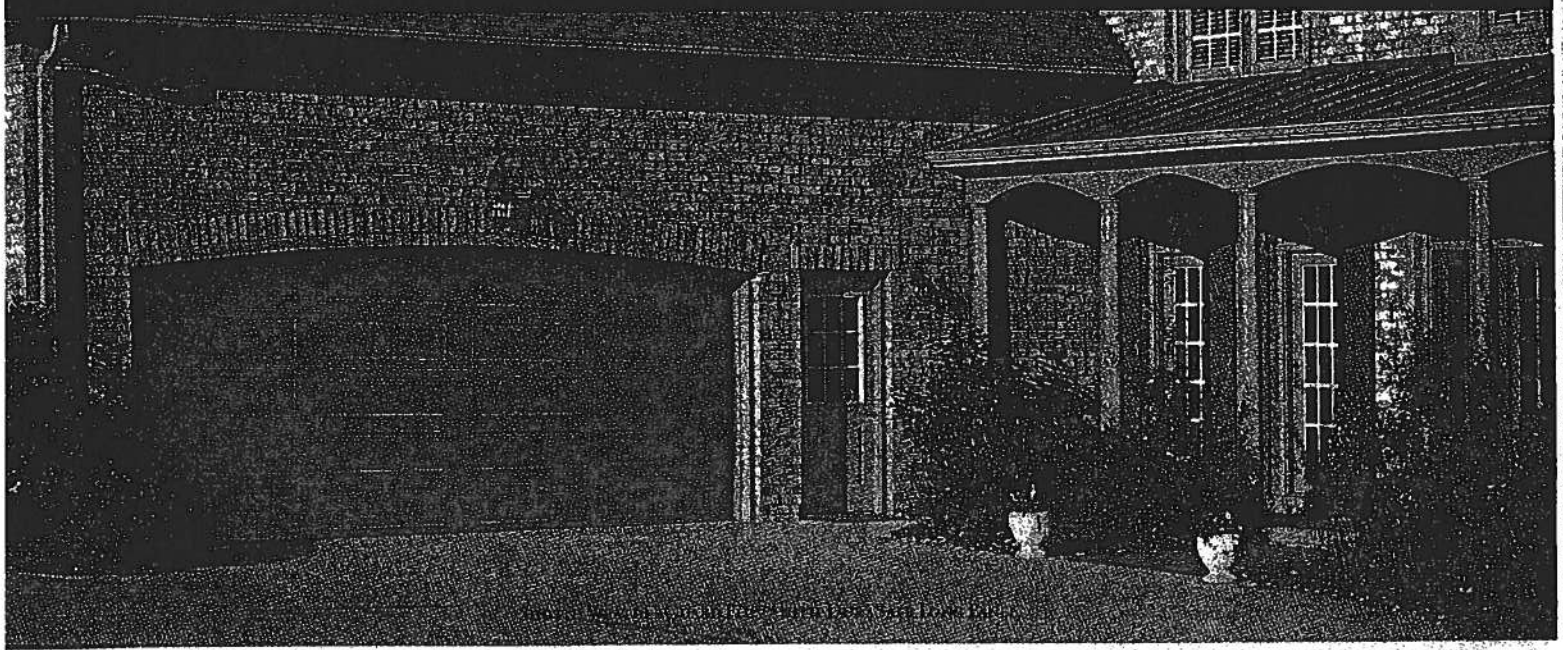
Mandie Jo Page, Office Manager

Enc.: 4
cc: file

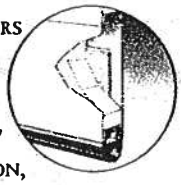
Amarr GARAGE DOORS

BEST

WeatherGuard™ Series
featuring our DuraSafe System



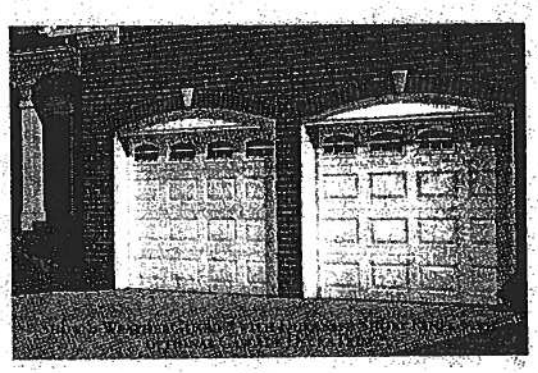
WeatherGuard Plus™ with DuraSafe



The WeatherGuard Plus offers discerning homeowners a masterful combination of premium features. Superior triple-layer construction, 2" (5.1 cm) polystyrene insulation, an R-value of 8.34, and unmatched beauty put the WeatherGuard Plus at the top of its class.

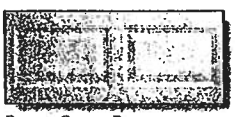
WeatherGuard™ with DuraSafe

Top-quality triple-layer construction and 1 3/8" (3.5 cm) polystyrene insulation make our WeatherGuard steel door strong, quiet, and energy efficient. Featuring an R-value of 5.73, the WeatherGuard is the perfect addition to your home for years of trouble free service and great looks.



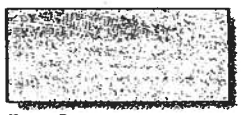
Design Elements

The WeatherGuard Series doors are available with a raised short, raised long, or flush panel design in your choice of four colors.*

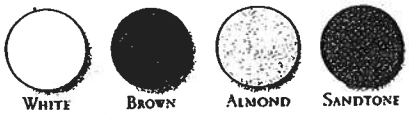


Raised Short Panel

Raised Long Panel



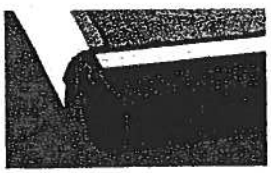
Flush Panel



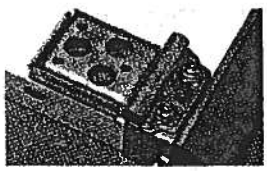
White Brown Almond Sandtone

* Actual paint colors may vary from samples shown.

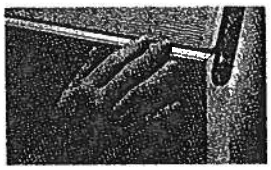
Bottom Seal
New aluminum bottom seal means easy and fast installation and maintenance... as well as a better seal against the elements.



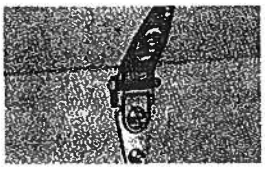
Bottom Bracket
New tamper resistant bottom bracket helps prevent accidents, yet allows for roller maintenance/change without disassembly. Full length roller tube prevents slip-outs.



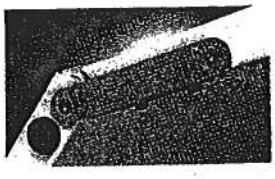
Door Sections
The section joint of the future: today. New section profile assures pinch resistance both inside and out, exceeding industry standards - neither fingers nor weather gets in.



Center Hinge
Flush mount inboard design center hinges provide pinch resistant protection and a low profile clean look on the inside of the door.



End Hinge
With most of its action hidden inside the door, our re-engineered end hinges leave no room for even the smallest fingers.

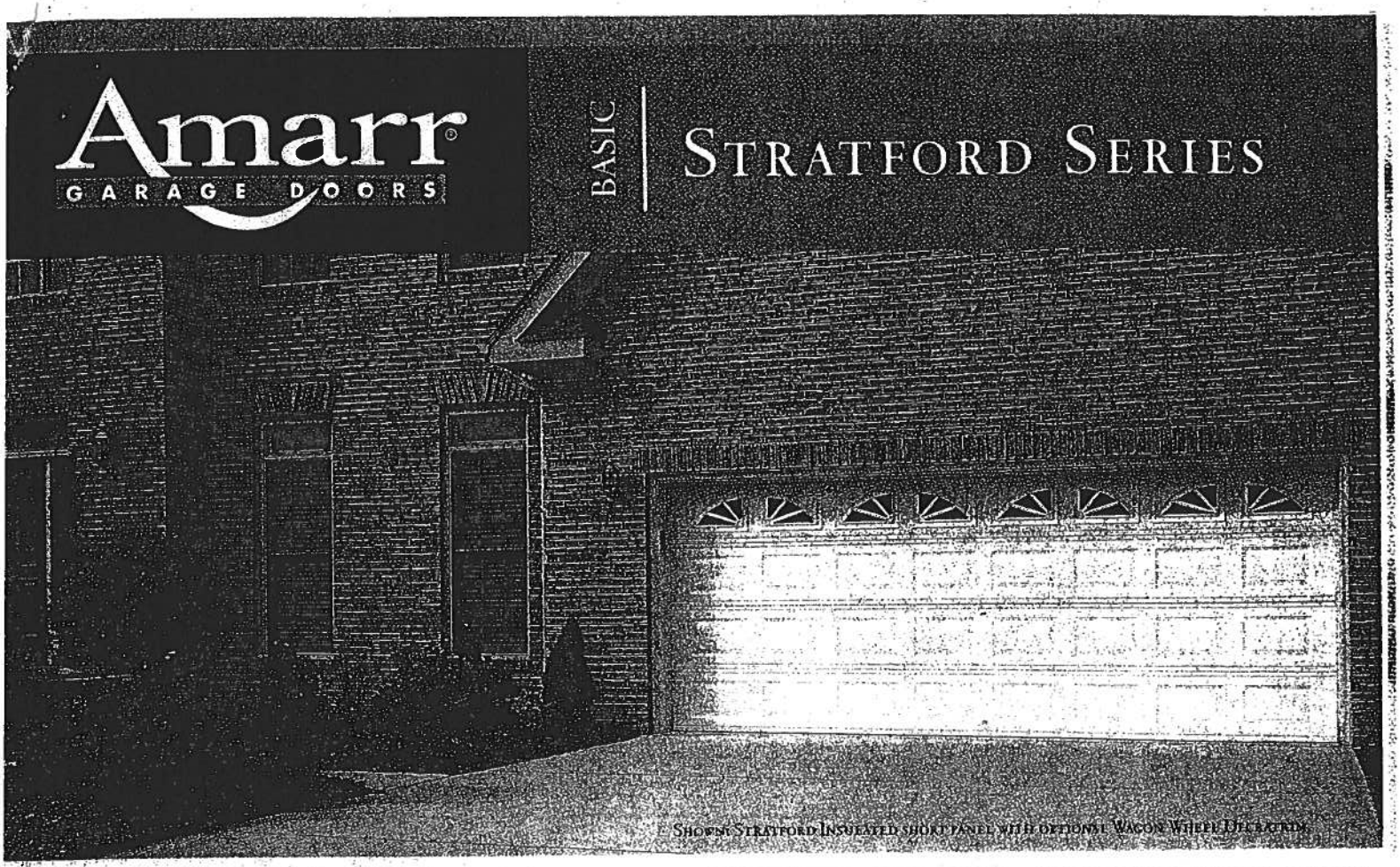


Amarr DuraSafe doors under 8'9" will be supplied with DuraSafe hardware. DASMA standards for pinch-resistance do not apply to doors over 8' high since the potential pinch points are above typical grasping heights; Amarr doors over 8'9" are supplied with conventional hardware. The Bottom Bracket, Door Sections, Center Hinge and End Hinge shown above are patented. Doors shown are electrically operated. Non-electrically operated doors should have exterior and interior lift handles attached to the door.

Amarr
GARAGE DOORS

BASIC

STRATFORD SERIES



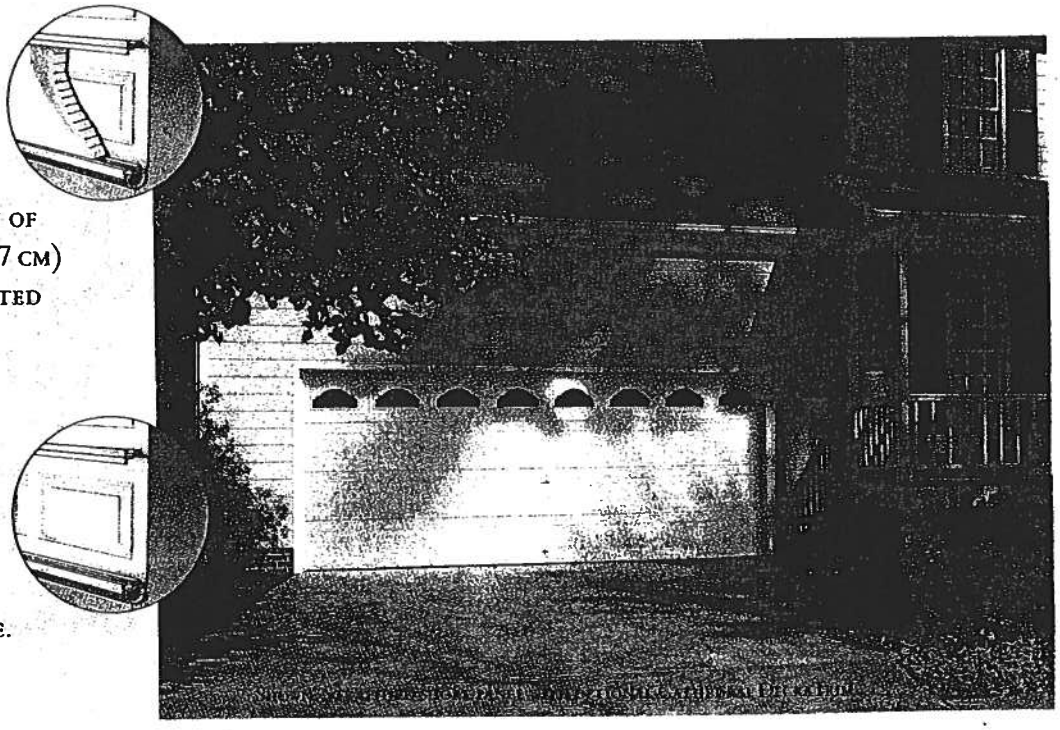
SHOWN: STRATFORD INSULATED SHORT PANEL WITH OPTIONAL WAGON WHEEL DECORATIVE HARDWARE.

STRATFORD INSULATED

THE 2" (5.1 CM) THICK STRATFORD INSULATED PROVIDES HOMEOWNERS EXCELLENT THERMAL PROTECTION AND HANDSOME GOOD LOOKS. FEATURES INCLUDE DOUBLE-LAYER CONSTRUCTION OF STURDY 25-GAUGE STEEL, AND 1 7/16" (3.7 CM) POLYSTYRENE INSULATION WITH LAMINATED BACKING AND AN R-VALUE OF 5.65.

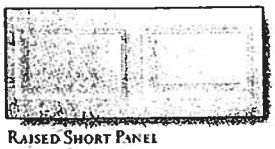
STRATFORD

A SUPERLATIVE ADDITION TO ANY HOME, THE STRATFORD'S DURABLE SINGLE-LAYER CONSTRUCTION, 25-GAUGE STEEL, AND ATTRACTIVE DESIGN PROVIDE HOMEOWNERS WITH EXCEPTIONAL VALUE.



DESIGN ELEMENTS

THE STRATFORD SERIES DOORS ARE AVAILABLE WITH A RAISED SHORT PANEL DESIGN IN YOUR CHOICE OF THREE COLORS.*



RAISED SHORT PANEL

WHITE ALMOND SANDTONE

* ACTUAL PAINT COLORS MAY VARY FROM SAMPLES SHOWN.

MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.24
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.24

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.26 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EW-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11 00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.24

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
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Entergy 6-8 S-W/E Outswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.21
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.23 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Outswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-O, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door with Sidelites in a Wood Frames with Bumper Threshold (Outswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
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CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Outswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

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The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.21
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

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Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.23 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Outswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-O, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door with Sidelites in a Wood Frames with Bumper Threshold (Outswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
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6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Outswing Glazed Double w/sidelites Residential Insulated Steel Doors
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.29
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.29

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.31 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Outswing Glazed Double Residential Insulated Steel Door with Sidelites and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1028-EW-O, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Outswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters): the installation of this unit will require a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.29

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez, P.E., Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.18
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.20 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-1, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door in Wood Frames with a Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2. Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit will not require a hurricane protection system.

4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
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7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

Residential System Sizing Calculation

Summary

Project Title:
Bass Residence

Code Only
Professional Version
Climate: North

Lake City, FL

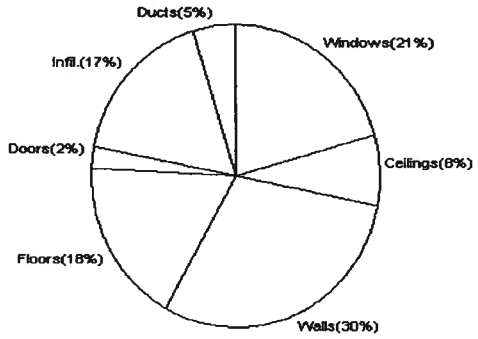
8/3/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature	31	F	Summer design temperature	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	39	F	Summer temperature difference	18	F
Total heating load calculation	**47075**	**Btuh**	**Total cooling load calculation**	**41211**	**Btuh**
Submitted heating capacity	48000	Btuh	Submitted cooling capacity	48000	Btuh
Submitted as % of calculated	102.0	%	Submitted as % of calculated	116.5	%

WINTER CALCULATIONS

Winter Heating Load (for 2763 sqft)

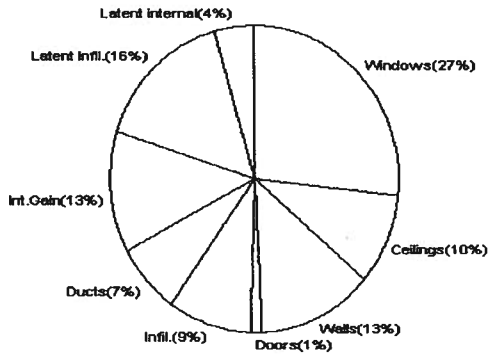
Load component			Load	
Window total	344	sqft	9747	Btuh
Wall total	2640	sqft	14134	Btuh
Door total	60	sqft	1100	Btuh
Ceiling total	2763	sqft	3592	Btuh
Floor total	264	ft	8342	Btuh
Infiltration	185	cfm	7918	Btuh
Subtotal			**44833**	**Btuh**
Duct loss			2242	Btuh
TOTAL HEAT LOSS			**47075**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2763 sqft)

Load component			Load	
Window total	344	sqft	11126	Btuh
Wall total	2640	sqft	5260	Btuh
Door total	60	sqft	608	Btuh
Ceiling total	2763	sqft	3923	Btuh
Floor total			0	Btuh
Infiltration	185	cfm	3654	Btuh
Internal gain			5400	Btuh
Subtotal(sensible)			**29973**	**Btuh**
Duct gain			2997	Btuh
Total sensible gain			**32970**	**Btuh**
Latent gain(infiltration)			6401	Btuh
Latent gain(internal)			1840	Btuh
Total latent gain			**8241**	**Btuh**
TOTAL HEAT GAIN			**41211**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY:

DATE: 8-3-06

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Bass Residence

Code Only
Professional Version
Climate: North

Lake City, FL

8/3/2006

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Winter

Residential Load - Component Details

Project Title:
Bass Residence

Code Only
Professional Version
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

8/3/2006

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	108.0	28.3	3056 Btuh
2	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
3	2, Clear, Metal, DEF	N	6.7	28.3	189 Btuh
4	2, Clear, Metal, DEF	N	4.0	28.3	113 Btuh
5	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
6	2, Clear, Metal, DEF	W	36.0	28.3	1019 Btuh
7	2, Clear, Metal, DEF	W	12.0	28.3	340 Btuh
8	2, Clear, Metal, DEF	S	72.0	28.3	2038 Btuh
9	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
10	2, Clear, Metal, DEF	S	3.8	28.3	106 Btuh
11	2, Clear, Metal, DEF	E	15.0	28.3	424 Btuh
	Window Total		344		9747 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete - Exterior	5.0	2380	5.6	13328 Btuh
2	Frame - Exterior	13.0	260	3.1	806 Btuh
	Wall Total		2640		14134 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		40	18.3	733 Btuh
2	Insulated - Exter		20	18.3	367 Btuh
	Door Total		60		1100Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2763	1.3	3592 Btuh
	Ceiling Total		2763		3592Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	264.0 ft(p)	31.6	8342 Btuh
	Floor Total		264		8342 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	27630(sqft)	185	7918 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			185	7918 Btuh

Totals for Heating	**Subtotal**	**44833 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**2242 Btuh**
	Total Btuh Loss	**47075 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
Bass Residence

Code Only
Professional Version
Climate: North

Lake City, FL

8/3/2006

Totals for Cooling	**Subtotal**	**29973**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**2997**	**Btuh**
	Total sensible gain	**32970**	**Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	**6401**	**Btuh**
	Latent occupant gain (8 people @ 230 Btuh per person)	**1840**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**41211**	**Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

System Sizing Calculations - Summer

Residential Load - Component Details

Project Title:
Bass Residence

Code Only
Professional Version
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 8/3/2006

Window	Type Panes/SHGC/U/InSh/ExSh	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, DEF, N, N	N	1.5	7	108.0	0.0	108.0	22	22	2376 Btuh
2	2, Clear, DEF, N, N	N	9	7	36.0	0.0	36.0	22	22	792 Btuh
3	2, Clear, DEF, N, N	N	9	10	6.7	0.0	6.7	22	22	147 Btuh
4	2, Clear, DEF, N, N	N	9	3	4.0	0.0	4.0	22	22	88 Btuh
5	2, Clear, DEF, N, N	N	1.5	7	15.0	0.0	15.0	22	22	330 Btuh
6	2, Clear, DEF, N, N	W	1.5	7	36.0	1.5	34.5	22	72	2518 Btuh
7	2, Clear, DEF, N, N	W	1.5	5	12.0	0.7	11.3	22	72	827 Btuh
8	2, Clear, DEF, N, N	S	1.5	7	72.0	36.0	36.0	22	37	2124 Btuh
9	2, Clear, DEF, N, N	S	18	7	36.0	36.0	0.0	22	37	792 Btuh
10	2, Clear, DEF, N, N	S	1.5	3	3.8	3.8	0.0	22	37	82 Btuh
11	2, Clear, DEF, N, N	E	1.5	7	15.0	0.6	14.4	22	72	1049 Btuh
	Window Total				344					11126 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Concrete - Exterior	5.0	2380.0	2.0	4808 Btuh
2	Frame - Exterior	13.0	260.0	1.7	452 Btuh
	Wall Total		2640.0		5260 Btuh

Doors	Type	Area	HTM	Load
1	Insulated - Exter	40.0	10.1	406 Btuh
2	Insulated - Exter	20.0	10.1	203 Btuh
	Door Total	60.0		608 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	2763.0	1.4	3923 Btuh
	Ceiling Total		2763.0		3923 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab-On-Grade Edge Insulation	0.0	264.0 ft(p)	0.0	0 Btuh
	Floor Total		264.0		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.40	27630	184.6	3654 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			185	3654 Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load
		8	X	300	+	3000	5400 Btuh

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC

SERIES/MODEL: 420/430/440
PRODUCT TYPE: Aluminum Sliding Glass Door

Title	Summary of Results		
	Test Specimen #1	Test Specimen #2	Test Specimen #3
Rating	SGD-R25 182 x 96	SGD-R35 182 x 80	SGD-R40 144 x 96
Operating Force	17 lbf max.	17 lbf max.	N/A
Air Infiltration	0.23 cfm/ft^2	0.27 cfm/ft^2	N/A
Water Resistance Test Pressure	3.75/6.0/9.0 psf	6.0 psf	N/A
Uniform Load Deflection Test Pressure	±35.0 psf	±35.0 psf	+40.0 psf/-40.1 psf
Uniform Load Structural Test Pressure	±37.5 psf	±52.5 psf	+60.0 psf/-60.2 psf
Forced Entry Resistance	Grade 10	Grade 10	N/A

Reference should be made to ATI Report No. 52112.01-122-47 for complete test specimen description and data.

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.:	52112.01-122-47
Revision 1:	09/13/04
Test Dates:	06/30/04
Through:	08/12/04
Report Date:	08/30/04
Expiration Date:	07/02/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on three Series/Model 420/430/440, aluminum sliding glass doors at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: SGD-R25 182 x 96; Test Specimen #2: SGD-R35 182 x 80; Test Specimen #3: SGD-R40 144 x 96. Test specimen description and results are reported herein.

Test Specification: The test specimens were evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 420/430/440

Product Type: Aluminum Sliding Glass Door

Test Specimen #1: SGD-R25 182 x 96 (XXO)

Overall Size: 15' 1-3/4" wide by 8' 0" high

Active Door Panel Size (2): 5' 0-1/2" wide by 7' 11" high

Fixed Door Panel Size: 5' 1" wide by 7' 11" high

Screen Size: 5' 0-3/8" wide by 7' 11" high

Overall Area: 121.2 ft^2

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520).

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
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www.archtest.com

Test Specimen Description: (Continued)

Test Specimen #2: SGD-R35 182 x 80 (OXX)

Overall Size: 15' 1-3/4" wide by 6' 8" high

Active Door Panel Size (2): 5' 0-1/2" wide by 6' 7" high

Fixed Door Panel Size: 4' 8-7/8" wide by 6' 2-5/8" high

Screen Size: 5' 0-3/8" wide by 6' 7" high

Overall Area: 101 ft^2

Reinforcement: No reinforcement was utilized.

Test Specimen #3: SGD-R40 144 x 96 (XOX)

Overall Size: 12' 0" wide by 8' 0" high

Active Door Panel Size: 3' 8-1/4" wide by 7' 10-1/2" high

Fixed Door Panel Size (2): 3' 8-3/4" wide by 7' 6-1/2" high

Screen Size: 3' 11-1/2" wide by 7' 11-3/8" high

Overall Area: 96 ft^2

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520). The interlock utilized an aluminum reinforcement (Drawing #SECT4237).

The following descriptions apply to all specimens.

Finish: All aluminum was white.

Glazing Details: All glazing consisted of a single sheet of 3/16" thick clear tempered glass that was channel glazed with a wrap around rubber gasket.

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.270" high polypile with center fin	2 Rows	Stiles

Frame Construction: The frame was constructed of extruded aluminum. Corners were coped, butted, sealed, and fastened with two #8 by 5/8" screws.

Door Panel Construction: The door panels were constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" by 3/4" screw at the bottom and two #8 by 3/4" screws at the top.

Screen Construction: The screen was constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" by 3/4" and one #8 by 1" screw at the bottom and one #8 by 1" screw at the top.

Hardware:

Description	Quantity	Location
Locking handle	1	44" from active panel bottom
Roller assembly	2	3" from bottom rail ends
Screen locking handle	1	46" from screen bottom rail

Drainage:

Description	Quantity	Location
Sloped sill	1	Sill

Installation: The units were installed into a #2 Spruce-Pine-Fir wood test buck. The units were fastened to the test buck with two rows of #8 by 1-1/4" screws, 8" from each end and 23" on center. The exterior perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	24 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283		
	1.57 psf (25 mph)	0.23 cfm/ft^2	0.3 cfm/ft^2 max.

Note #1: *The tested specimen meets the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.*

2.1.3	Water Resistance per ASTM E 547		
	(with and without screen)		
	2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the meeting rail)		
	(Loads were held for 52 seconds)		
	15.0 psf (positive)	0.56"	See Note #2
	15.0 psf (negative)	0.57"	See Note #2

Note #2: *The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

2.1.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the meeting stile)		
	(Loads were held for 10 seconds)		
	22.5 psf (positive)	0.02"	0.30" max.
	22.5 psf (negative)	0.03"	0.30" max.
2.2.1.6.2	Deglazing Test per ASTM E 987		
	In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
2.2.1.6.2	Deglazing Test per ASTM E 987 In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen) 3.75 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with 2-5/8" Dade County sill extension) 9.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	35.0 psf (positive)	2.98"	See Note #2
	35.0 psf (negative)	2.52"	See Note #2

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	37.5 psf (positive)	0.20"	0.36" max.
	37.5 psf (negative)	0.19"	0.36" max.
Test Specimen #2: SGD-R35 182 x 80 (OXX)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	21 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283		
	1.57 psf (25 mph)	0.27 cfm/ft^2	0.3 cfm/ft^2 max.
Note #1: The tested specimen meets the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.			
2.1.3	Water Resistance per ASTM E 547 (with and without screen)		
	2.86 psf	No leakage	No leakage
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #2: SGD-R35 182 x 80 (OXX) (Continued)			
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	35.0 psf (positive)	1.28"	See Note #2
	35.0 psf (negative)	1.33"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	52.5 psf (positive)	0.13"	0.30" max.
	52.5 psf (negative)	0.15"	0.30" max.
Test Specimen #3: SGD-R40 144 x 96 (XOX)			
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	40.0 psf (positive)	1.42"	See Note #2
	40.1 psf (negative)	1.28"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	60.0 psf (positive)	0.27"	0.37" max.
	60.2 psf (negative)	0.30"	0.37" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess vlm

Digitally Signed for: Mark A. Hess by Vicki L. McElwain

Mark Hess
Technician

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer

MH:vlm

MI WINDOWS AND DOORS, INC.

420 / 430 / 440 SERIES ALUMINUM SLIDING GLASS DOOR

COMAPARATIVE ANALYSIS CHART IN DESIGN PRESSURE

STEEL AND ALUMINUM REINFORCING

09/08/2004

SGD ALUM & STL REINF

PANEL WIDTH >>	24	30	36	48
PANEL HEIGHT 80	85	71	62	51
96	69	57	49	40

TEST REPORT NO: ATI-52112.01-122-47
DESIGN PRESSURE ACHIEVED IN TEST: POS. & NEG. 40.0 PSF
WATER TEST PRESSURE:
- 1-3/8 IN. SILL RISER: 3.75 PSF
- 1-7/8 IN. SILL RISER: 6.0 PSF
- 2-5/8 IN. SILL RISER: 9.0 PSF

OVERALL TEST SIZE: 12'-0" X 8'-0" NOMINAL

OVERALL PANEL SIZE: 48 IN. X 96 IN. NOMINAL
GLAZING: SINGLE PC. OF 3/16 IN. THK. TEMPERED GLASS
REINFORCING: STEEL IN INTERLOCKING STILES AND INTERMEDIATE JAMB. ADDITIONAL ALUM. REINFORCING ON EXTERIOR OF OPERATING INTERLOCK STILE.
CONFIGURATION: XOX

LIMITATIONS:
THE ABOVE ARE POSITIVE AND NEGATIVE STRUCTURAL DESIGN LOADS FROM COMPARATIVE ANALYSIS & HAVE NOT BEEN CAPPED BY RESULTS OF WATER PERFORMANCE TESTING.
WHERE LOCAL CODE REQUIRES WATER RESISTANCE TESTING TO PASS A MIN. 15% OF DESIGN PRESSURE, ALLOWABLE POSITIVE DESIGN PRESSURE WOULD BE CAPPED AS FOLLOWS:
- WHERE 1-3/8 IN. SILL RISER IS EMPLOYED POSITIVE DESIGN PRESSURE IS CAPPED AT 25.0 PSF.
- WHERE 1-7/8 IN. SILL RISER IS EMPLOYED POSITIVE DESIGN PRESSURE IS CAPPED AT 40.0 PSF.
- WHERE 2-5/8 IN. SILL RISER IS EMPLOYED POSITIVE DESIGN PRESSURE IS CAPPED AT 60.0 PSF.

PANEL WIDTHS AND HEIGHTS ARE NOMINAL, IN INCHES.

PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
1150 LOUISIANA AVENUE, SUITE 6
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MI WINDOWS AND DOORS, INC.

420 / 430 / 440 SERIES ALUMNUM SLIDING GLASS DOOR

09/08/2004

COMAPARATIVE ANALYSIS CHART IN DESIGN PRESSURE

SGD non-Reinf

PANEL WIDTH >>	24	30	36	48	60
PANEL HEIGHT 80	64	54	47	39	35

TEST REPORT NO: ATI-52112.01-122-47
DESIGN PRESSURE ACHIEVED IN TEST: POS. & NEG. 35.0 PSF
WATER TEST PRESSURE:
- 1-3/8 IN. SILL RISER: 3.75 PSF
- 1-7/8 IN. SILL RISER: 6.0 PSF
- 2-5/8 IN. SILL RISER: 9.0 PSF

OVERALL SIZE TESTED: 15'-0" X 6'-8" NOMINAL
OVERALL PANEL SIZE TESTED: 5'-0" X 6'-8" NOMINAL
GLAZING: SINGLE PC. OF 3/16 IN THICK TEMP. GLASS
REINFORCING: NONE
CONFIGURATION TESTED: XXO

LIMITATIONS:
THE ABOVE ARE POSITIVE AND NEGATIVE STRUCTURAL DESIGN LOADS FROM COMPARATIVE ANALYSIS & HAVE NOT BEEN CAPPED BY RESULTS OF WATER PERFORMANCE TESTING.
WHERE LOCAL CODE REQUIRES WATER RESISTANCE TESTING TO PASS A MIN. 15% OF DESIGN PRESSURE, ALLOWABLE POSITIVE DESIGN PRESSURE WOULD BE CAPPED AS FOLLOWS:
- WHERE 1-3/8 IN. SILL RISER IS EMPLOYED, POSITIVE DESIGN PRESSURE = 25.0 PSF
- WHERE 1-7/8 IN. SILL RISER IS EMPLOYED, POSITIVE DESIGN PRESSURE = 40.0PSF
- WHERE 2-5/8 IN. SILL RISER IS EMPLOYED, POSITIVE DESIGN PRESSURE = 60.0 PSF

PANEL WIDTHS AND HEIGHTS ARE NOMINAL, IN INCHES.

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MI WINDOWS AND DOORS, INC.

420 / 430 / 440 SERIES ALUMINUM SLIDING GLASS DOOR | STEEL REINFORCED | 09/08/2004

COMAPARATIVE ANALYSIS CHART IN DESIGN PRESSURE | SGD STL REINF

PANEL WIDTH >>	24	30	36	48	60
PANEL HEIGHT 80	61	51	44	37	33
96	49	41	35	29	25

TEST REPORT NO: ATI-52112.01-122-47
DESIGN PRESSURE ACHIEVED IN TEST: POS. & NEG. 25.0 PSF
WATER TEST PRESSURE:
- 1-3/8 IN. SILL RISER: 3.75 PSF
- 1-7/8 IN. SILL RISER: 6.0 PSF
- 2-5/8 IN. SILL RISER: 9.0 PSF

OVERALL SIZE TESTED: 15'-0" X 8'-0" NOMINAL
OVERALL PANEL SIZE TESTED: 60 IN. X 96 IN. NOMINAL
GLAZING: SINGLE PC. OF 3/16 IN. THK. TEMPERED GLASS
REINFORCING: STEEL IN INTERLOCKING STILES, AND FIXED INTERMEDIATE JAMB
CONFIGURATION TESTED: OXX

LIMITATIONS:
THE ABOVE ARE POSITIVE AND NEGATIVE STRUCTURAL DESIGN LOADS FROM COMPARATIVE ANALYSIS & HAVE NOT BEEN CAPPED BY RESULTS OF WATER PERFORMANCE TESTING.
WHERE LOCAL CODE REQUIRES WATER RESISTANCE TESTING TO PASS A MIN. 15% OF DESIGN PRESSURE, ALLOWABLE POSITIVE DESIGN PRESSURE WOULD BE CAPPED AS FOLLOWS:
- WHERE 1-3/8 IN. SILL RISER IS EMPLOYED, POSITIVE DESIGN PRESSURES ARE CAPPED AT 25.0 PSF.
- WHERE 1-7/8 IN. SILL RISER IS EMPLOYED, POSITIVE DESIGN PRESSURES ARE CAPPED AT 40.0 PSF.
- WHERE 2-5/8 IN. SILL RISER IS EMPLOYED, POSITIVE DESIGN PRESSURES ARE CAPPED AT 60.0 PSF.

PANEL WIDTHS AND HEIGHTS ARE NOMINAL, IN INCHES.

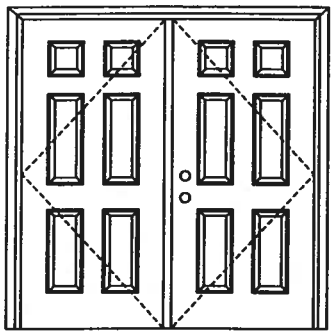
PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
1150 LOUISIANA AVENUE, SUITE 6
WINTER PARK, FLORIDA 32789
PHONE 407 622-6334 FAX 407 622.6335
www.ptc-corp.com

XX
Opaque Outswing Unit

COP-WL-MA0122-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+55.0/-55.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

Flush

6-panel

New England 4-panel

Eyebrow 4-panel

9-panel

Eyebrow 5-panel with scroll

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

XX
Opaque Outswing Unit

COP-WL-MA0122-02

FIBERGLASS DOORS

CERTIFIED TEST REPORTS:

CTLA-772W-2; CTLA-1051W

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202, ASTM E1886 and ASTM E1996

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO PA201, PA202 & PA203
OR ASTM E1996, MIAMI-DADE PA202,
AND ASTM E1886
COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey WH

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-Grain and Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

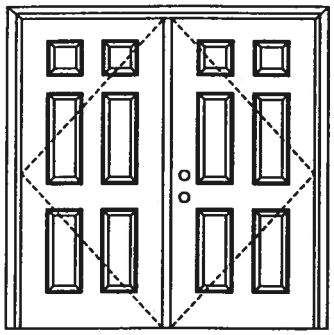
Masonite®

XX
Opaque Inswing Unit

COP-WL-MA0102-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+55.0/-55.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

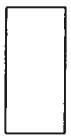
MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0002-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:


Flush

6-panel

New England 4-panel

Eyebrow 4-panel

9-panel

Eyebrow 5-panel with scroll

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite

XX
Opaque Inswing Unit

COP-WL-MA0102-02

FIBERGLASS DOORS

CERTIFIED TEST REPORTS:

CTLA-772W-2; CTLA-1051W

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202, ASTM E1886 and ASTM E1996

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO PA201, PA202 & PA203
OR ASTM E1996, MIAMI-DADE PA202,
AND ASTM E1886
COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK Non-Textured Fiberglass Entry Doors

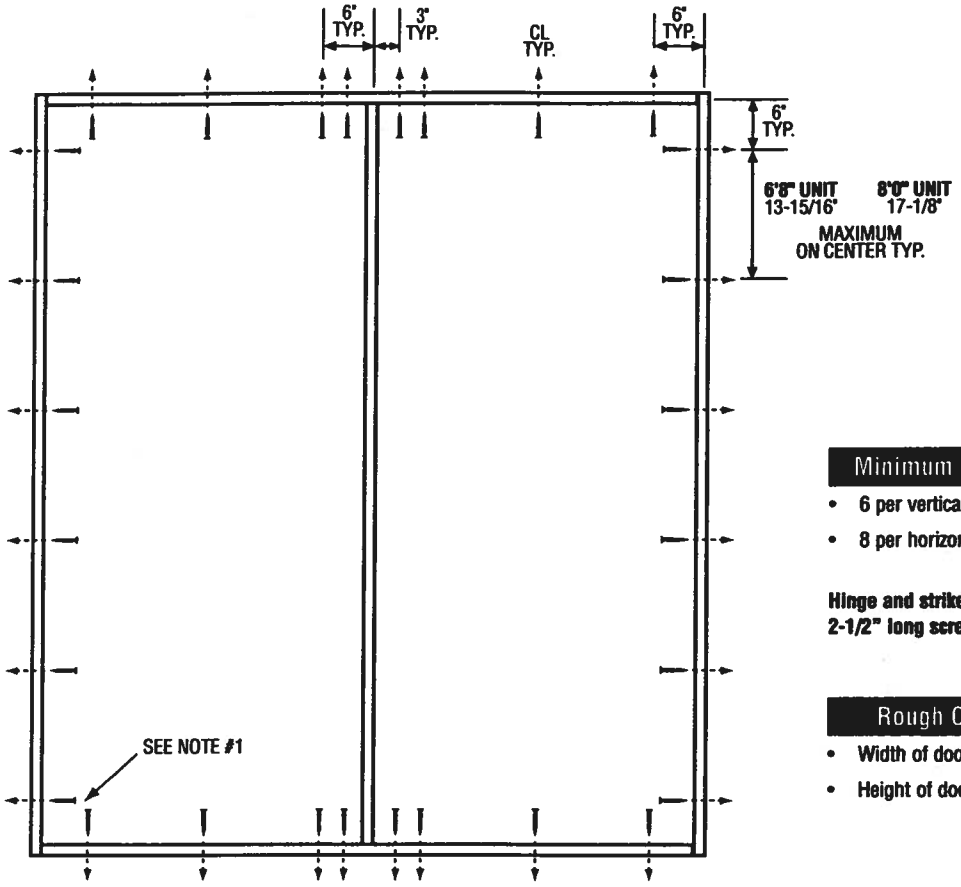
March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite

XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Warnock Hersey Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0247*, 0267*, 3242*, 3247, 3262* or 3267**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

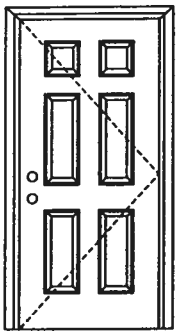
Masonite®

X
Opaque Inswing Unit

COP-WL-MA0101-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure

+76.0/-76.0
limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

Flush

6-panel

New England 4-panel

Eyebrow 4-panel

9-panel

Eyebrow 5-panel with scroll

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

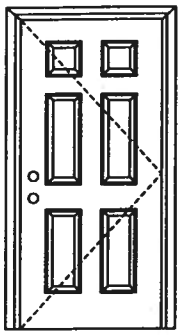
Masonite®

X
Opaque Outswing Unit

COP-WL-MA0121-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+76.0/-76.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0011-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

Flush

6-panel

New England 4-panel

Eyebrow 4-panel

9-panel

Eyebrow 5-panel with scroll

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

X
Opaque Outswing Unit

COP-WL-MA0121-02

FIBERGLASS DOORS

CERTIFIED TEST REPORTS:

NCTL 210-1973-1, 2, 3

Certifying Engineer and License Number: Barry Portney, P.E. 16258

CTLA-1051W

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202, ASTM E1886 and ASTM E1996

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO PA201, PA202 & PA203
OR ASTM E1996, MIAMI-DADE PA202,
AND ASTM E1886

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthy

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-Grain & Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

X
Opaque Inswing Unit

COP-WL-MA0101-02

FIBERGLASS DOORS

CERTIFIED TEST REPORTS:

NCTL 210-1973-1, 2, 3

Certifying Engineer and License Number: Barry Portney, P.E. 16258

CTLA-1051W

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202, ASTM E1886 and ASTM E1996.

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO PA201, PA202 & PA203
OR ASTM E1996, MIAMI-DADE PA202,
AND ASTM E1886
COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

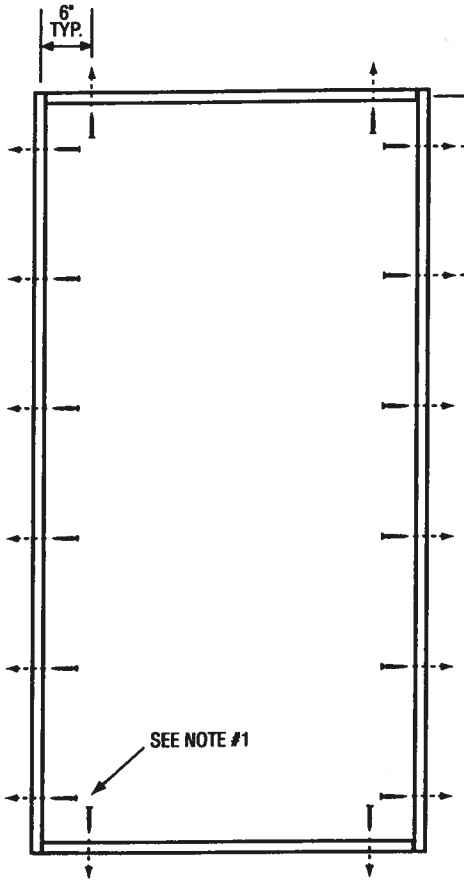
March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

X
Unit

MID-WL-MA0001-02

SINGLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 2 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Warnock Hersey Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0246*, 0266*, 3241*, 3246, 3261* or 3266**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure -- see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

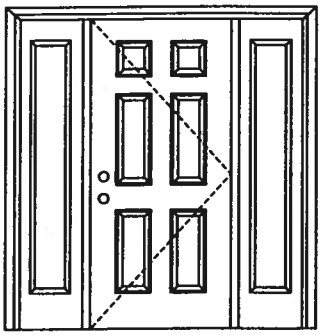
Masonite®

OXO
Opaque Outswing Unit

COP-WL-MA0124-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Single Door with 2 Sidelites
Maximum unit size = 5'4" x 6'8"

Design Pressure

+55.0/-55.0
limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED on opaque panel, but is required on glazed panels.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0014-02 or MAD-WL-MA0017-02 and MAD-WL-MA0041-02.

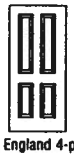
MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0004-02.

APPROVED DOOR STYLES:

Flush

6-panel


New England 4-panel

Eyebrow 4-panel

9-panel

Eyebrow 5-panel with scroll

Oakcraft Wood-Grain Textured FIBREGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

OXO
Opaque Outswing Unit

COP-WL-MA0124-02

FIBERGLASS DOORS

APPROVED SIDELITE STYLES:

129 Series | 200 Series | 12R, 12L, 23R, 23L, 24R, 24L Series | 450 Series | 152 Series | 149 Series | 109 Series | 120, 122 Series | 300 Series

CERTIFIED TEST REPORTS:

CTLA-772W-2; CTLA-1051W

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202, ASTM E1886 and ASTM E1996

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core. Slab and sidelite panel glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO PA201, PA202 & PA203
OR ASTM E1996, MIAMI-DADE PA202,
AND ASTM E1886

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

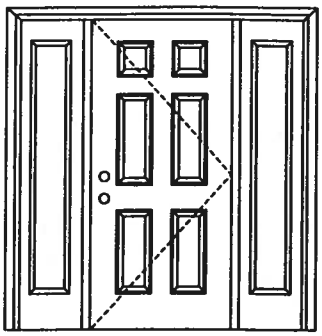
Masonite®

OXO
Opaque Inswing Unit

COP-WL-MA0104-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Single Door with 2 Sidelites
Maximum unit size = 5'4" x 6'8"

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Design Pressure

+55.0/-55.0
limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED on opaque panel, but is required on glazed panels.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

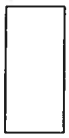
MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0004-02 or MAD-WL-MA0007-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0004-02.

APPROVED DOOR STYLES:


Flush

6-panel

New England 4-panel

Eyebrow 4-panel

9-panel

Eyebrow 5-panel with scroll

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

OXO
Opaque Inswing Unit

COP-WL-MA0104-02

FIBERGLASS DOORS

APPROVED SIDELITE STYLES:

129 Series | 200 Series | 12R, 12L, 23R, 23L, 24R, 24L Series | 450 Series | 152 Series | 149 Series | 109 Series | 120, 122 Series | 300 Series

CERTIFIED TEST REPORTS:

CTLA-772W-2; CTLA-1051W

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202, ASTM E1886 and ASTM E1996

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core. Slab and sidelite panel glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO PA201, PA202 & PA203
OR ASTM E1996, MIAMI-DADE PA202,
AND ASTM E1886

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-Grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

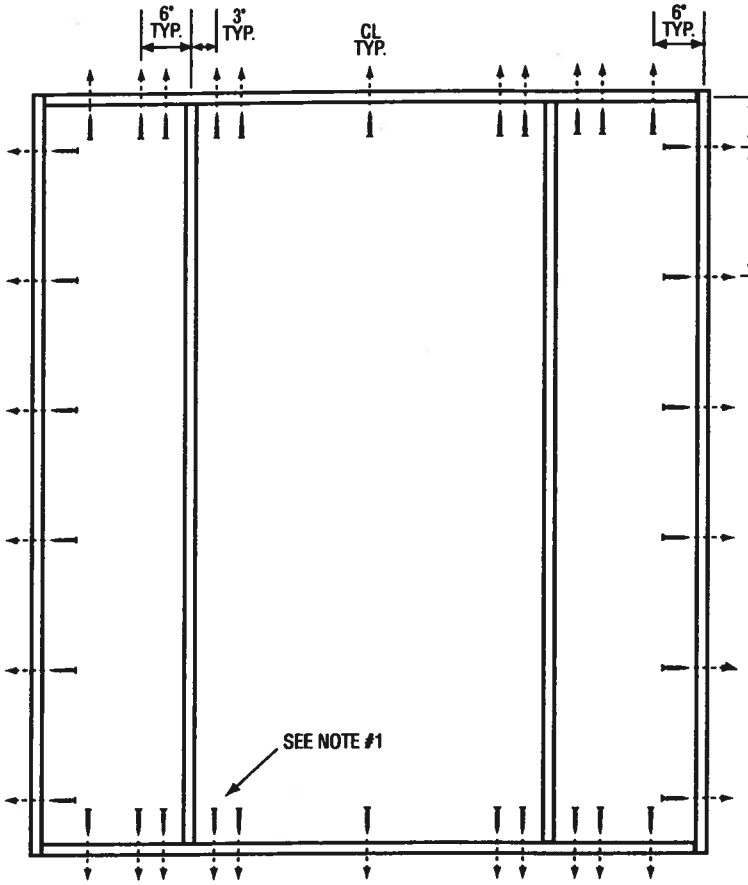
March 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

OXO
Unit

MID-WL-MA0004-02

SINGLE DOOR WITH 2 SIDELITES



Minimum Fastener Count

- 6 per vertical framing member
- 11 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Warnock Hersey Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 0249*, 0269*, 3244*, 3249, 3264* or 3269**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

*Based on required Design Pressure – see COP sheet for details.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons. Threshold fasteners analyzed for this unit include #8 and #10 wood screws, 3/16" Tapcons, or Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

Mrach 10, 2003
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

Masonite®

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

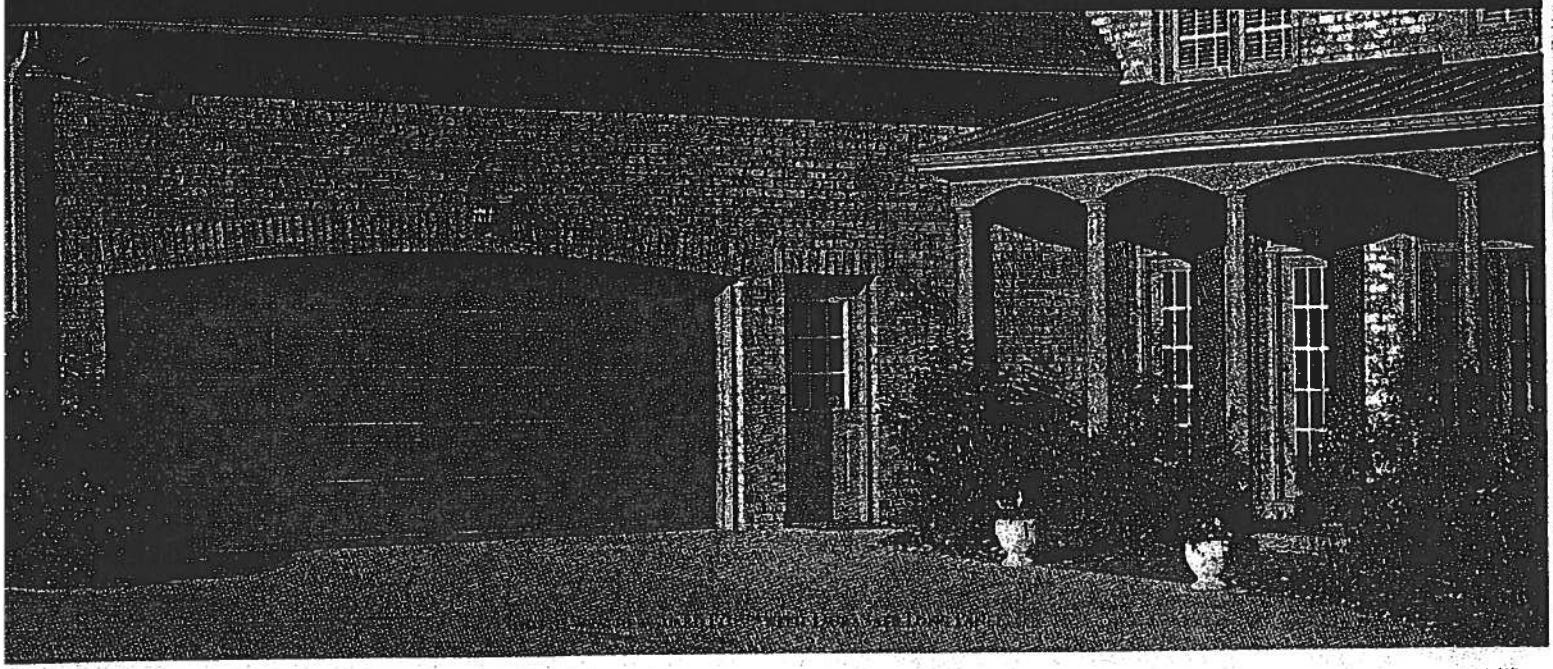
If you have any questions please feel free to call our office anytime.

Thank you,

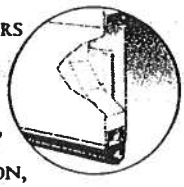
Donald D. Hall
DDH/jk

Amarr GARAGE DOORS

BEST | WeatherGuard™ Series
FEATURING OUR **DuraSafe System**



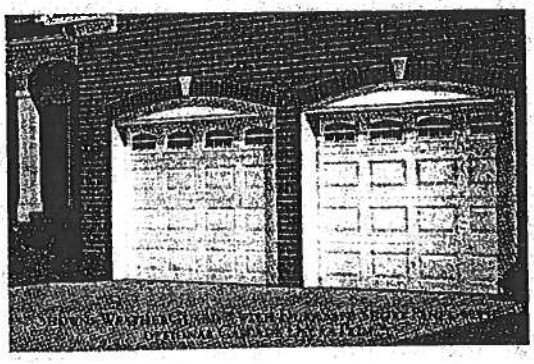
WeatherGuard Plus™ with DuraSafe



The WeatherGuard Plus offers discerning homeowners a masterful combination of premium features. Superior triple-layer construction, 2" (5.1 cm) polystyrene insulation, an R-value of 8.34, and unmatched beauty put the WeatherGuard Plus at the top of its class.

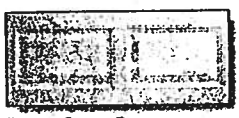
WeatherGuard™ with DuraSafe

Top-quality triple-layer construction and 1 3/8" (3.5 cm) polystyrene insulation make our WeatherGuard steel door strong, quiet, and energy efficient. Featuring an R-value of 5.73, the WeatherGuard is the perfect addition to your home for years of trouble free service and great looks.

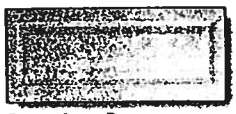


Design Elements

The WeatherGuard Series doors are available with a raised short, raised long, or flush panel design in your choice of four colors.*

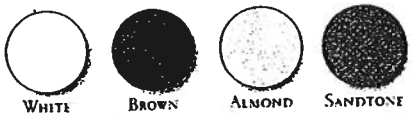


Raised Short Panel



Raised Long Panel

Flush Panel

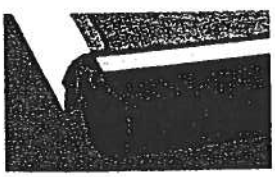


White Brown Almond Sandtone

* Actual paint colors may vary from samples shown.

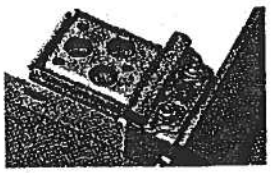
Bottom Seal

New aluminum bottom seal means easy and fast installation and maintenance... as well as a better seal against the elements.



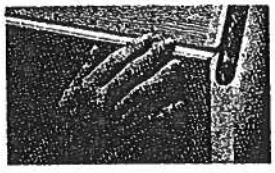
Bottom Bracket

New tamper resistant bottom bracket helps prevent accidents, yet allows for roller maintenance/change without disassembly. Full length roller tube prevents slip-outs.



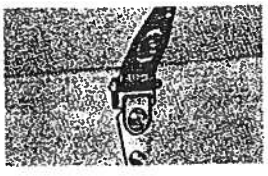
Door Sections

The section joint of the future: today. New section profile assures pinch resistance both inside and out, exceeding industry standards - neither fingers nor weather gets in.



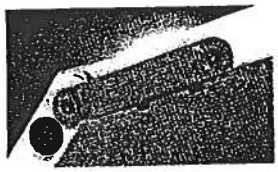
Center Hinge

Flush mount inboard design center hinges provide pinch resistant protection and a low profile clean look on the inside of the door.



End Hinge

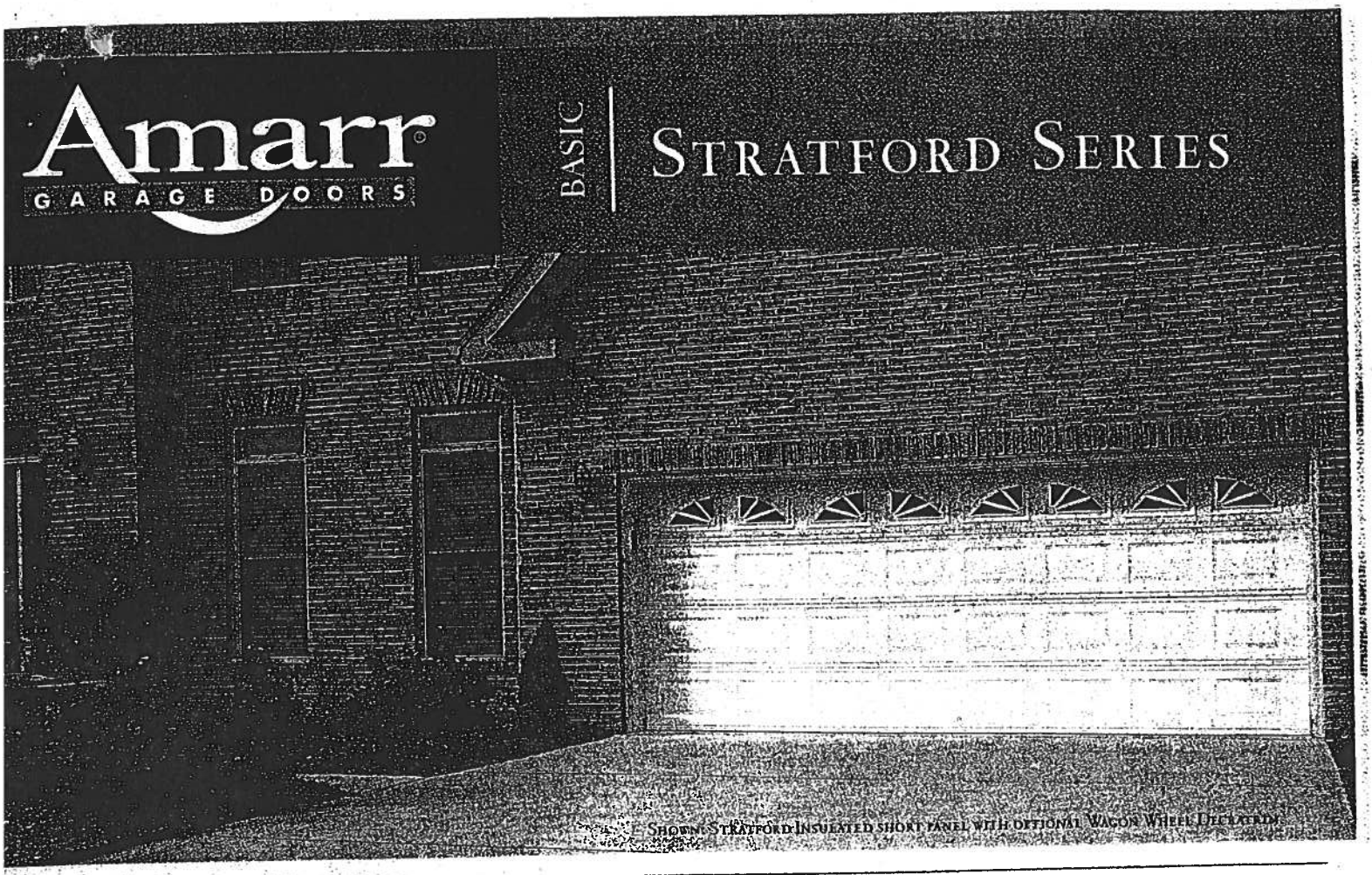
With most of its action hidden inside the door, our re-engineered end hinges leave no room for even the smallest fingers.



Amarr DuraSafe doors under 8'9" will be supplied with DuraSafe hardware. DASMA standards for pinch-resistance do not apply to doors over 8' high since the potential pinch points are above typical grasping heights; Amarr doors over 8'9" are supplied with conventional hardware. The Bottom Bracket, Door Sections, Center Hinge and End Hinge shown above are patented. Doors shown are electrically operated. Non-electrically operated doors should have exterior and interior lift handles attached to the door.

Amarr
GARAGE DOORS

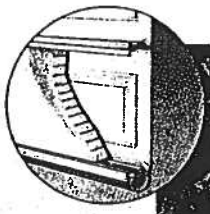
BASIC | STRATFORD SERIES



SHOWN: STRATFORD INSULATED SHORT PANEL WITH OPTIONAL WAGON WHEEL DECORATIVE

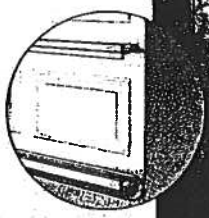
STRATFORD INSULATED

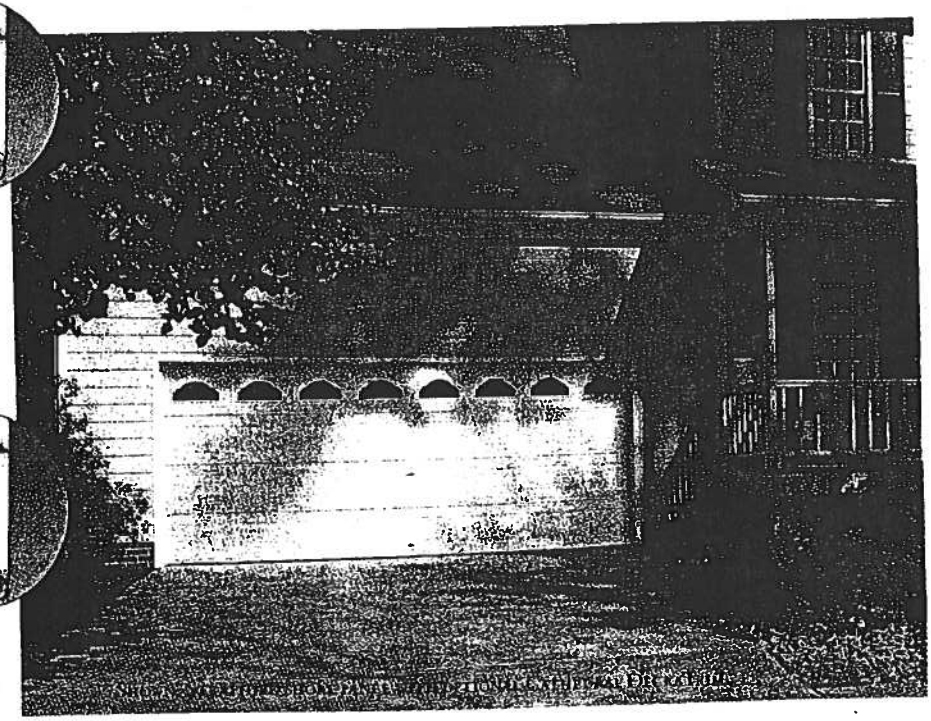
THE 2" (5.1 CM) THICK STRATFORD INSULATED PROVIDES HOMEOWNERS EXCELLENT THERMAL PROTECTION AND HANDSOME GOOD LOOKS. FEATURES INCLUDE DOUBLE-LAYER CONSTRUCTION OF STURDY 25-GAUGE STEEL, AND 1 7/16" (3.7 CM) POLYSTYRENE INSULATION WITH LAMINATED BACKING AND AN R-VALUE OF 5.65.



STRATFORD

A SUPERLATIVE ADDITION TO ANY HOME, THE STRATFORD'S DURABLE SINGLE-LAYER CONSTRUCTION, 25-GAUGE STEEL, AND ATTRACTIVE DESIGN PROVIDE HOMEOWNERS WITH EXCEPTIONAL VALUE.





DESIGN ELEMENTS

THE STRATFORD SERIES DOORS ARE AVAILABLE WITH A RAISED SHORT PANEL DESIGN IN YOUR CHOICE OF THREE COLORS.*

RAISED SHORT PANEL

WHITE

ALMOND

SANDSTONE

* ACTUAL PAINT COLORS MAY VARY FROM SAMPLES SHOWN.

CAPITOL WINDOWS AND DOORS

- Series 3540 Single Hung and Fixed Windows
- Series 8540 Single Hung and Fixed Windows

NOTE: SEE INDIVIDUAL TEST REPORT(S) FOR DP RATINGS AND MAXIMUM ALLOWABLE SIZES.

INSTALLATION INSTRUCTIONS FOR "APPROVED FOR FLORIDA" VINYL FIN WINDOWS

1. Storage: Do not lay windows flat, lean multiple units against poles, or store in the sun before installing.

2. Handle units one at a time in the closed and locked position. Place a continuous bead of adhesive caulk such as silicone or urethane on the back side of "nail fins" (mounting flanges) before placing in opening.

3. Place shims under corners of sill. In the closed and locked position, set unit into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Starting at the center of the longest frame member, place #8 sheet metal or wood screws (with a minimum of 1" penetration into the framing) in every other pre-punched slot which are on 4" to 5" centers (max. spacing 10"). Make sure that screws are driven in straight in order to avoid twisting or bowing. Make sure that the head and sill are straight and level and the jambs are straight and plumb. Check operation of unit frequently as fasteners are set.

4. **Note: Adherence to the above screw spacing and caulk requirements will allow this product to be used for design pressures (DP's) up to and including ± 47.2**

5. Caulk entire perimeter of the fin to mounting surface joint. Also caulk over screw heads and unused slots. Note: This step can be eliminated if 4" wide adhesive type flashing is used (sill 1st, jambs 2nd, head 3rd).

6. Fill voids between window frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows. The use of expanding aerosol type insulating foam, which can bow the frame, voids all stated warranties. The use of muriatic acid for brick clean-up may damage the coil spring sash balance system. Windows must be masked off to avoid muriatic acid exposure, which will void the warranty.

7. Remove plaster, mortar, paint and any other debris that may have collected on the unit and make sure that sash/vent tracks are also clean. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass, scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent.

8. For structures finished in brick or stone, allow ¼" gap under the sill, then caulk this joint when complete. Also caulk the head and jamb joints in the same manner.

9. If one or more holes are field drilled (by others) in any area of the window sill for any purpose (such as security systems), the warranty will be void. Adding holes can cause water leaks and interior damage.

- CAUTION -

Capitol Windows & Doors or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. BetterBilt window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be aware of other code requirements such as emergency egress, structural performance, and energy performance.

Headquarters: M I. Home Products 650 West Market St. Gratz, PA 17030 (717) 365-3300 www.mihp.com

NE 2 21

June 24, 2003

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.

SERIES/MODEL: 3540
PRODUCT TYPE: PVC Triple Single Hung

Title	Summary of Results
Rating	H-R30* 108 x 74
Operating Force	17 lbf max.
Air Infiltration	0.11 cfm/ft^2
Water Resistance Test Pressure	4.50 psf
Uniform Load Deflection Test Pressure	±47.2 psf
Uniform Load Structural Test Pressure	+52.5 psf, -70.8 psf
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 50172.01-122-47 for complete test specimen description and data.

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.:	50172.01-122-47
Revision 1:	08/30/04
Test Dates:	06/11/04
Through:	07/07/04
Report Date:	07/27/04
Expiration Date:	07/07/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on a Series/Model 3540, triple single hung window at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R30* 108 x 74 rating. Reference should be made to Report No. 01-45617.02 for Gateway Performance results. Test specimen description and results are reported herein.

General Note: *An asterisk (*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.*

Test Specification: The test specimen was evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 3540

Product Type: PVC Triple Single Hung

Overall Size: 8' 11-5/8" wide by 6' 1-3/4" high

Interior Sash Size (3): 2' 9-3/4" wide by 3' 0-1/8" high

Fixed Daylight Opening Size (3): 2' 7-3/4" wide by 2' 9-3/16" high

Screen Size: 2' 9" wide by 2' 11-1/4" high

Overall Area: 55.1 ft^2

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Test Specimen Description: (Continued)

Finish: All PVC was white.

Glazing Details: All glazing consisted of 7/8" thick sealed insulating glass units that were comprised of two sheets of 3/32" thick clear annealed glass and a metal reinforced butyl spacer system. The glass was interior glazed against a double-sided adhesive glazing tape and secured with vinyl glazing beads.

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.250" high polypile	1 Row	Meeting rail, stiles
0.187" backed by 0.250" high polypile	1 Row	Sill leg
0.187" backed by 0.310" high polypile	1 Row	Stiles
0.187" backed, 1/4 foam filled single leaf vinyl bulb gasket	1 Row	Bottom rail
0.187" backed, 1/8 foam filled vinyl bulb gasket	1 Row	Fixed meeting rail

Frame Construction: The frame was constructed of extruded PVC members. Corners were mitered and welded. End caps were utilized on the ends of the meeting rail and secured with three #6 by 5/8" screws per cap. The fixed meeting rail was then secured to the frame utilizing three #6 by 5/8" screws.

Sash Construction: The sash was constructed of extruded PVC members. Corners were mitered and welded.

Screen Construction: The screen was constructed of roll-formed aluminum. Corners were square-cut and secured with vinyl corner keys. The mesh was secured with a flexible vinyl spline.

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Constant force balances	6	One per jamb
Metal cam locks with adjacent keepers	6	Meeting rail, 7" from each end
Plastic tilt latches	6	Each end of the interior meeting rail
Metal pivot pins	6	Each end of the bottom rail

Drainage:

Description	Quantity	Location
3/32" by 1/2" weepslot	12	Bottom rail, 2 at each end
1/8" by 1" weepslot	2	Sill, 3" from each end
3/16" by 1/2" weepslot	2	Screen track, 2-1/2" from each end

Reinforcement: The interior meeting rail and bottom rail utilized a roll-formed "I beam" steel reinforcement (Drawing #GVL-451-020). The fixed meeting rail utilized a steel reinforcement (Drawing #RF-104S-020). The intermediate frame rails utilized a steel reinforcement (Drawing #2.75x.125 steel plate).

Installation: The unit was installed into a wood test buck. The nail fin was set against a silicone bedding and fastened to the buck with #6 by 1-5/8" screws, 2" from corners and 8" on center. 3/4" washers were utilized along the entire length of the sill, at midspan of the head and jambs, and at all corners.

Test Results: The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.6.1.1	Operating Force	17 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.11 cfm/ft^2	0.3 cfm/ft^2 max.

***Note #1**: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.*

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.3	Water Resistance per ASTM E 547 (with and without screen)		See Note #2

***Note #2**: The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance".*

2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the mullion) (Loads were held for 52 seconds)		
	35.0 psf (positive)	0.39"	See Note #3
	35.0 psf (negative)	0.54"	See Note #3

***Note #3**: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the mullion) (Loads were held for 10 seconds)		
	52.5 psf (positive)	<0.01"	0.27" max.
	52.5 psf (negative)	0.07"	0.27" max.
2.2.6.1.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Interior meeting rail	0.13"/26%	0.50"/100%
	Bottom rail	0.11"/22%	0.50"/100%
	In remaining direction - 50 lbs		
	Left stile	0.09"/18%	0.50"/100%
	Right stile	0.10"/20%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.8	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1	No entry	No entry
	Test A2	No entry	No entry
	Test A3	No entry	No entry
	Test A4	No entry	No entry
	Test A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen)		
	4.50 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the mullion) (Loads were held for 52 seconds)		
	47.2 psf (positive)	0.73"	See Note #3
	47.2 psf (negative)	0.92"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the mullion) (Loads were held for 10 seconds)		
	52.5 psf (positive)	<0.01"	0.27" max.
	70.8 psf (negative)	0.21"	0.27" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Jeramie D. Grabosch

Jeramie D. Grabosch
Technician

Digitally Signed by: Steven M. Urich

Steven. M. Urich, P.E.
Senior Project Engineer

JDG:vlm

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 3540 Picture Window
with Continuous Head and Sill
PRODUCT TYPE: PVC Triple Fixed Window

Title	Summary of Results
Rating	F-C40 108 x 74
Uniform Load Deflection Test Pressure	±47.0 psf
Uniform Structural Load Test Pressure	±70.5 psf

Reference should be made to ATI Report Identification No. 01-51007.02 for complete test specimen description and data.

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Architectural Testing

ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030

ATI Report Identification No.: 01-51007.02
Test Date: 04/30/04
Report Date: 06/12/04
Expiration Date: 04/30/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc to witness testing on a Series/Model 3540 Picture Window with Continuous Head and Sill, PVC triple fixed window at MI Home Products, Inc.'s test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a F-C40 108 x 74 rating. Test specimen description and results are reported herein. Reference should be made to ATI Report Identification No. 01-51007.01 for air infiltration and water penetration test results.

Test Specification: The test specimen was evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 3540 Picture Window with Continuous Head and Sill

Product Type: PVC Triple Fixed Window

Overall Size: 8' 11-9/16" wide by 6' 1-1/2" high

Daylight Opening Size (3): 2' 7-3/4" wide by 5' 9-1/2" high

Overall Area: 54.90 ft^2

Finish: All PVC was white.

Glazing Details: The window utilized 7/8" thick, sealed insulating glass units fabricated of two sheets of 1/8" thick, clear annealed glass and metal reinforced butyl spacer system. The glass was interior glazed against a dual-sided adhesive foam tape and secured utilizing extruded snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Test Specimen Description: (Continued)

Frame Construction: The frame was constructed of extruded PVC members with mitered and welded corners. An extruded PVC snap-in filler piece was utilized around the entire interior perimeter of the each opening. The mullions were coped, butted, sealed with single-sided adhesive foam pads and secured to the head and sill utilizing two #8 by 2-1/2" long screws and two #8 by 1-1/4" screws. Sealant was utilized at the exterior face of the mullion to jamb joinery.

Drainage:

Description	Quantity	Location
5/8" wide by 1/4" high weepslot	2 Per window	Corners of the sill draining the interior sill hollow
5/8" wide by 1/4" high weepslot	2 Per window	Corners of the sill draining the intermediate sill hollow
1" long by 1/8" high weepslot	2 Per window	Exterior sill face draining the exterior sill hollow
1/2" long by 3/16" high weepslot	2 Per window	2" from corners draining the glazing pocket
1/2" long by 1/8" high weepslot	2 Per window	1" from corners draining the glazing channel

Reinforcement: A 1/8" by 2-1/2" strip of steel was utilized in the mullions.

Installation: The window was installed into a Spruce-Pine-Fir wood test buck utilizing an integral nailing fin. The nailing fin was bedded in silicone and secured to the test buck utilizing 1-5/8" wood screws 3" from the corners and 8" on center. Washers were utilized at the corners and midspan of the head, jambs and entire sill. A 3/4" by 3/4" wood blind stop was secured to the sill utilizing 1-5/8" wood screws 2" from the end and 8" on center.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the mullion) (Loads were held for 52 seconds)		
	47.0 psf (positive)	0.63"	See Note #2
	47.0 psf (negative)	0.69"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the mullion) (Loads were held for 10 seconds)		
	70.5 psf (positive)	0.03"	0.28" max.
	70.5 psf (negative)	0.11"	0.28" max.

***Note #2:** The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Eric Westphal

Eric Westphal
Technician

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer

EW:nlb
01-51007.02

CAPITOL WINDOWS AND DOORS

- Series 165 Single Hung and Fixed Windows
- Series 650 Single Hung and Fixed Windows
- Series 168 Horizontal Slider and Fixed Windows
- Series 680 Horizontal Slider and Fixed Windows

NOTE: SEE INDIVIDUAL TEST REPORT(S) FOR DP RATINGS AND MAXIMUM ALLOWABLE SIZES.

INSTALLATION INSTRUCTIONS FOR "APPROVED FOR FLORIDA" ALUMINUM FIN WINDOWS

Capitol Windows & Doors appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1 Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin. Place a continuous bead of caulk on the back side of nail fin (mounting flange).

2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit frequently as fasteners are set.

3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to 35, do not exceed 24" spacing of additional screws. For DPs from 35.1 to 50, do not exceed 18" spacing.

4. Caulk entire perimeter of fin to mounting surface joint and caulk over screw heads.
Note: this step can be eliminated if 4" wide adhesive type flashing is used (sill 1st., jambs 2nd., head 3rd.).

5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.

6. Remove plaster, mortar, paint, and debris that has collected on the unit and make sure that sash/vent tracks and interlocks are also clean. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass; scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent.

- CAUTION -

Capitol Windows & Doors or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. BetterBilt window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be aware of other code requirements such as emergency egress and structural / energy performance.

Corporate Headquarters:
M.I. Home Products
650 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

www.mihp.com

STEVEN M. URICH CERTIFICATE No. 57795 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jt 221
July 29, 2003

Rev. 7-24-03

AAMA/NWWDA 101/I.S.2-97
TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 450/650/850 Drop In Glazing
TYPE: Aluminum Single Hung Window

Title	Summary of Results
AAMA Rating	H-LC30 53 x 90
Operating Force	24 lb max.
Air Infiltration	0.11 cfm/ft²
Water Resistance Test Pressure	6.75 psf
Uniform Load Deflection Test Pressure	+32.8 psf -47.2 psf
Uniform Load Structural Test Pressure	+49.2 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 01-42487.01 for complete test specimen description and data.

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-42487.01
Test Date: 08.14.02
And: 08.15.02
Report Date: 10.02.02
Expiration Date: 08.15.06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on a Series Model 450 650 850 Drop In Glazing, aluminum single hung window at their facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-LC30 53 x 90 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

Test Specimen Description:

Series/Model: 450 650 850 Drop In Glazing

Type: Aluminum Single Hung Window

Overall Size: 4' 5-1/8" wide by 7' 5-5/8" high

Interior Sash Size: 4' 2-3/4" wide by 3' 8-7/8" high

Fixed Daylight Opening Size: 4' 0" wide by 3' 5-3/8" high

Screen Size: 4' 0-3/4" wide by 3' 8-3/4" high

Finish: The unit was white.

Glazing Details: The specimen utilized 5/8" thick, sealed insulating glass constructed from two sheets of 3/32" thick, clear annealed glass and a metal reinforced butyl spacer system. The lites were interior glazed against double-sided adhesive foam tape and secured with PVC snap in glazing beads.

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Test Specimen Description (Continued)

Weatherstripping:

Description	Quantity	Location
0.190" high by 0.187" polypile with center fin	1 Row	Fixed meeting rail interlock
0.190" high by 0.187" polypile with center fin	2 Rows	Interior sash stiles
1/4" vinyl foam-filled bulb seal	1 Row	Interior sash bottom rail
5/8" wide by 7/8" long polypile plug	4 Pieces	Interior sash, all corners

Frame Construction: The frame was constructed of extruded aluminum. Each corner was coped, butted, sealed, and fastened with two #8 x 1" screws per corner through the head and sill into jamb screw boss. End caps were utilized on the ends of the meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was then secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum. Each corner was coped, butted, and fastened with one #8 x 1-1/4" screw per corner.

Screen Construction: The screen was constructed of roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock	2	Interior sash, 6-1/2" from top rail ends
Spring-loaded coil balance	2	One per jamb
Plastic tilt latch	2	Interior sash top rail ends
Metal tilt latch pin	2	Interior sash bottom rail ends
Screen spring loaded retainer pin	2	6-3/4" from rails on stiles

Test Specimen Description: (Continued)

Drainage: Sloped sill.

Reinforcement: No reinforcement was utilized.

Installation: The specimen was installed into a #2 2 x 8 Spruce-Pine-Fir wood buck. #8 x 1-5/8" drywall screws were placed 3" from corners and 15" on center around nailing fin. Polyurethane was used as a sealant around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	24 lbs	35 lbs max.
2.1.2	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.11 cfm/ft²	0.3 cfm/ft² max.

***Note #1** – The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

2.1.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 3.75 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 52 seconds) @ 25.0 psf (positive) @ 25.0 psf (negative)	0.64"* 0.54"*	0.29" max. 0.29" max.

**Exceeds L/175 for deflection, but meets all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 37.5 psf (positive) @ 37.5 psf (negative)	0.04" 0.03"	0.29" max. 0.29" max.

Test Results:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.14.2	Deglazing Test (ASTM E 987-88)		
	In operating direction at 70 lbs		
	Interior sash meeting rail	0.12"/25%	0.50" 100%
	Interior sash bottom rail	0.12"/25%	0.50" 100%
	In remaining direction at 50 lbs		
	Interior sash right stile	0.06"/12%	0.50" 100%
	Interior sash left stile	0.06"/12%	0.50" 100%
2.1.8	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP – 6.75 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 32.8 psf (positive)	0.85"*	0.29" max.
	@ 47.2 psf (negative)	0.87"*	0.29" max.
4.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 49.2 psf (positive)	0.09"	0.20" max.
	@ 70.8 psf (negative)	0.12"	0.20" max.

**Exceeds L/175 for deflection, but meets all other test requirements.*

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced except in full without the approval of Architectural Testing.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

MAH:mb
01-42487.01

Allen. N. Reeves, P.E.
Director - Engineering Services
11 OCTOBER 2002

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650
TYPE: Aluminum Picture Window

Title of Test	Results
Rating	F-R45 60 x 80
Overall Design Pressure	+45.0 psf -47.2 psf
Air Infiltration	0.04 cfm/ft²
Water Resistance	8.25 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-47135.01 dated 03/29/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:ah

Allen N. Reeves
1 APRIL 2002

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.: 01-41135.01
Test Date: 03.07.02
Report Date: 03.26.02
Expiration Date: 03.07.06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series Model 650, aluminum picture window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a F-R45 60 x 80 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650

Type: Aluminum Picture Window

Overall Size: 5'-0" wide by 6'-0" high

Daylight Opening Size: 4'-9-1/4" wide by 6'-5-1/4" high

Finish: All aluminum was white.

Glazing Details: The test specimen utilized 7/8" thick, sealed insulating glass constructed from two sheets of 3/16" thick, clear annealed glass and a metal reinforced butyl sealant system. The glass was interior glazed against double-sided adhesive foam tape and secured with aluminum snap-in glazing beads.

Test Specimen Description: (Continued)

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss.

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck. #8 x 2-1/2" installation screws were utilized 18" on center around the interior perimeter. Polyurethane was utilized to seal the exterior.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.2	Air Infiltration (ASTM E 283-91)		
	@ 1.57 psf (25 mph)	0.04 cfm/ft^2	0.3 cfm/ft^2 max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

2.1.3	Water Resistance (ASTM E 547-00)		
	WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97)		
	(Measurements reported were taken on the jamb)		
	(Loads were held for 32 seconds)		
	@ 28.9 psf (positive)	0.01"	0.41" max.
	@ 34.7 psf (negative)	0.01"	0.41" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97)		
	(Measurements reported were taken on the jamb)		
	(Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.0"	0.29" max.
	@ 52.1 psf (negative)	0.01"	0.29" max.

Allen H. Reeves
4 APRIL 2002

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.8	Forced Entry Resistance (ASTM F 588-97)		
	Type: D Grade: 10		
	Hand and Tool Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) WTP – 8.25 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the jamb) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.02"	0.41" max.
	@ -47.2 psf (negative)	0.02"	0.41" max.
4.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the jamb) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.01"	0.29" max.
	@ -70.8 psf (negative)	0.02"	0.29" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
4 APRIL 2002

MAH:ab
01-41135.01

Project Information for:	L216492		
Builder:	DON REED CONSTRUCTION	Date:	11/8/2006
Lot:	N/A	Start Number:	1056
Subdivision:	268 NW EVERETT TERRACE	SEI Ref:	L216492
County or City:	COLUMBIA COUNTY		
Truss Page Count:	42		

Truss Design Load Information (UNO) Design Program: MiTek

Gravity		Wind		Building Code:	FBC2004
Roof (psf):	42	Wind Standard:	ASCE 7-02		
Floor (psf):	55	Wind Speed (mph):	110		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

REED, LARRY DON CGC 036224
Address: 2230 E BAYA AVE. STE 101
LAKE CITY ,FLORIDA 32025 Designer: 132

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549 Phone: 813-849-5769

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.
5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitablity and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	1108061056	11/8/2006	41	T31	1108061096	11/8/2006
2	CJ3	1108061057	11/8/2006	42	T32	1108061097	11/8/2006
3	CJ5	1108061058	11/8/2006				
4	EJ7	1108061059	11/8/2006				
5	EJ7G	1108061060	11/8/2006				
6	HGBL1	1108061061	11/8/2006				
7	HGBL2	1108061062	11/8/2006				
8	HGBL3	1108061063	11/8/2006				
9	HJ9	1108061064	11/8/2006				
10	PB01	1108061065	11/8/2006				
11	T01	1108061066	11/8/2006				
12	T02	1108061067	11/8/2006				
13	T03	1108061068	11/8/2006				
14	T04	1108061069	11/8/2006				
15	T05	1108061070	11/8/2006				
16	T06	1108061071	11/8/2006				
17	T07	1108061072	11/8/2006				
18	T08	1108061073	11/8/2006				
19	T09	1108061074	11/8/2006				
20	T10	1108061075	11/8/2006				
21	T11	1108061076	11/8/2006				
22	T12	1108061077	11/8/2006				
23	T13	1108061078	11/8/2006				
24	T14	1108061079	11/8/2006				
25	T15	1108061080	11/8/2006				
26	T16	1108061081	11/8/2006				
27	T17	1108061082	11/8/2006				
28	T18	1108061083	11/8/2006				
29	T19	1108061084	11/8/2006				
30	T20	1108061085	11/8/2006				
31	T21	1108061086	11/8/2006				
32	T22	1108061087	11/8/2006				
33	T23	1108061088	11/8/2006				
34	T24	1108061089	11/8/2006				
35	T25	1108061090	11/8/2006				
36	T26	1108061091	11/8/2006				
37	T27	1108061092	11/8/2006				
38	T28	1108061093	11/8/2006				
39	T29	1108061094	11/8/2006				
40	T30	1108061095	11/8/2006				

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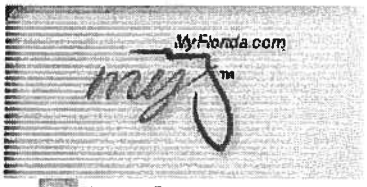

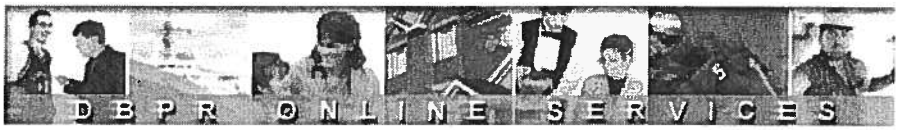

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Licensee Details

Licensee Information

Name:	**REED, LARRY DON (Primary Name)**
	DON REED CONSTRUCTION INC (DBA Name)
Main Address:	**2230 E BAYA AVE STE 101** **LAKE CITY Florida 32025**
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	**2230 E BAYA AVE STE 101** **LAKE CITY FL 32025**
County:	**COLUMBIA**

License Information

License Type:	**Certified General Contractor**
Rank:	**Cert General**
License Number:	**CGC036224**
Status:	**Current,Active**
Licensure Date:	**03/08/1986**
Expires:	**08/31/2006**
Special Qualifications	**Qualification Effective**
Bldg Code Core Course Credit	
Qualified Business License Required	**08/13/2004**

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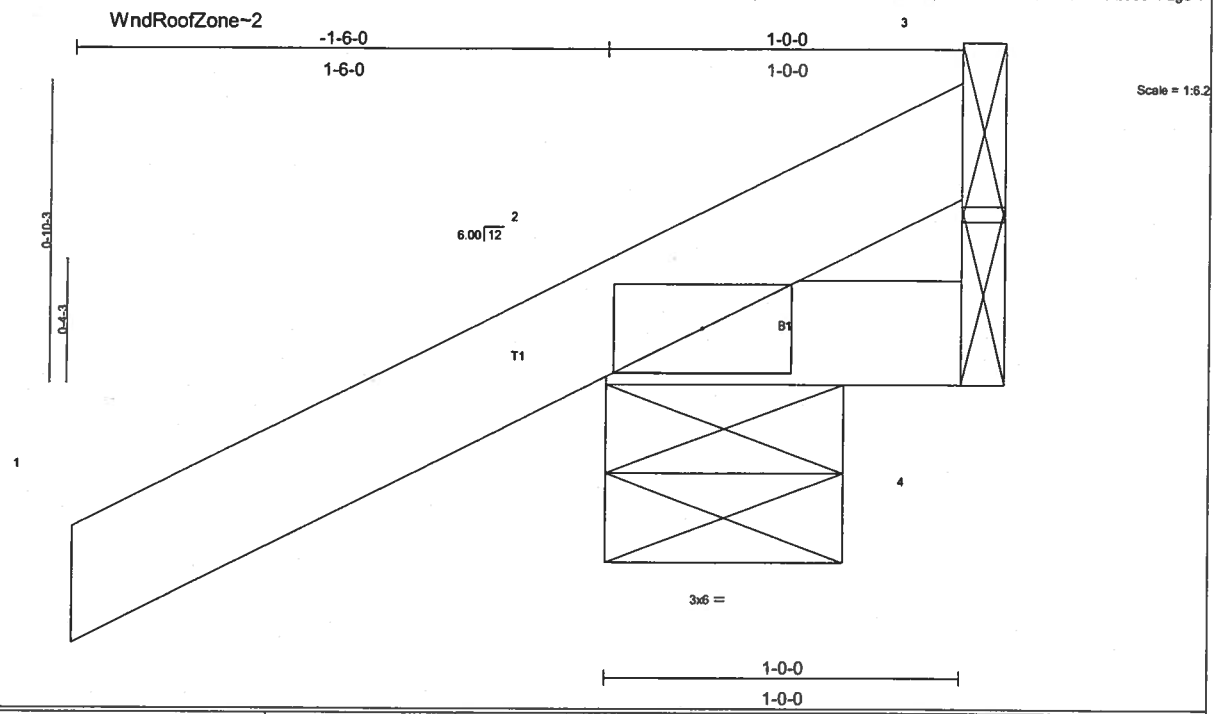
NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL DESIGN ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N.FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061056

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	CJ1	JACK	14	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:08:40 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 6 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=195/0-8-0, 4=14/Mechanical, 3=-47/Mechanical
Max Horz 2=70(load case 5)
Max Uplift2=-188(load case 5), 3=-47(load case 1)
Max Grav 2=195(load case 1), 4=14(load case 1), 3=68(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-48/40
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 47 lb uplift at joint 3.

LOAD CASE(S) Standard

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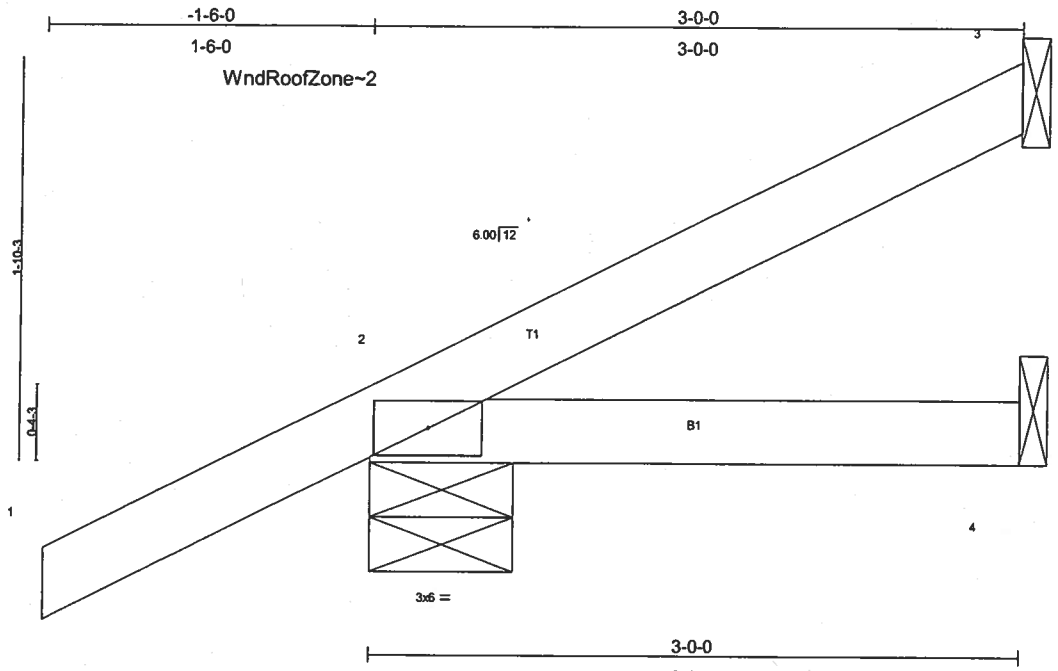
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061057

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	CJ3	JACK	14	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:09:20 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 12 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=35/Mechanical, 2=243/0-8-0, 4=39/Mechanical
Max Horz 2=137(load case 5)
Max Uplift3=-38(load case 6), 2=-245(load case 5), 4=-31(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-53/11
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.13

NOTES
1) Wind: ASCE 7-02; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 3, 245 lb uplift at joint 2 and 31 lb uplift at joint 4.

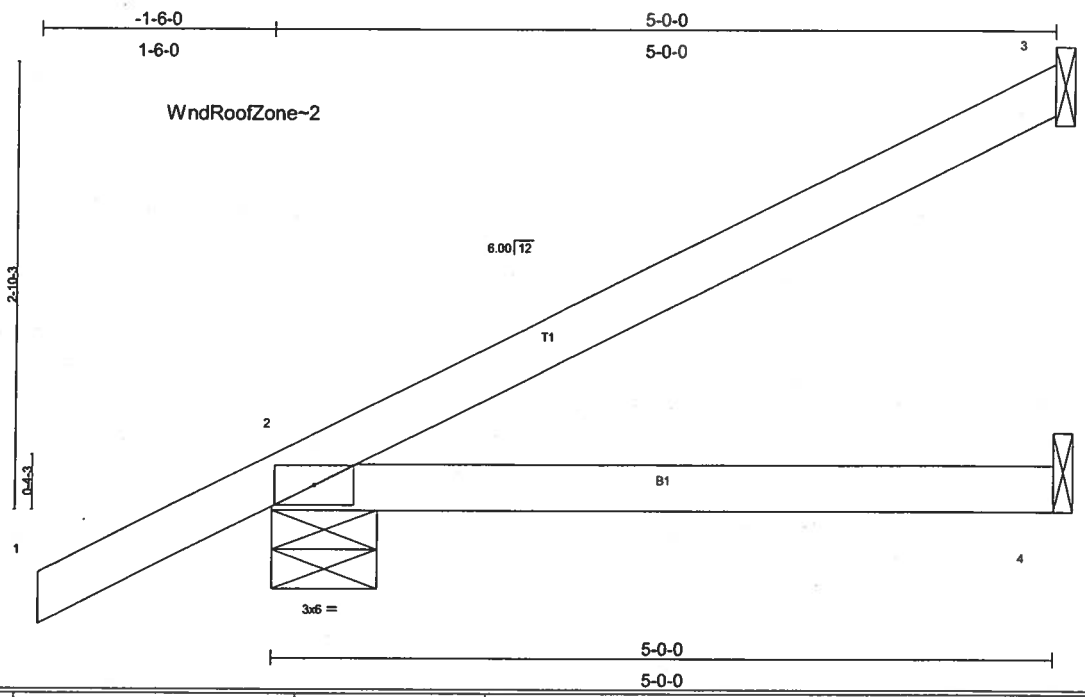
LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061058

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	CJ5	JACK	14	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:09:39 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.09	2-4	>628	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	0.08	2-4	>714	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=105/Mechanical, 2=312/0-8-0, 4=69/Mechanical
Max Horz 2=192(load case 5)
Max Uplift3=-115(load case 5), 2=-279(load case 5), 4=-55(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-109/38
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.16

NOTES
1) Wind: ASCE 7-02; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 3, 279 lb uplift at joint 2 and 55 lb uplift at joint 4.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061059

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	EJ7	MONO TRUSS	49	1	Job Reference (optional)

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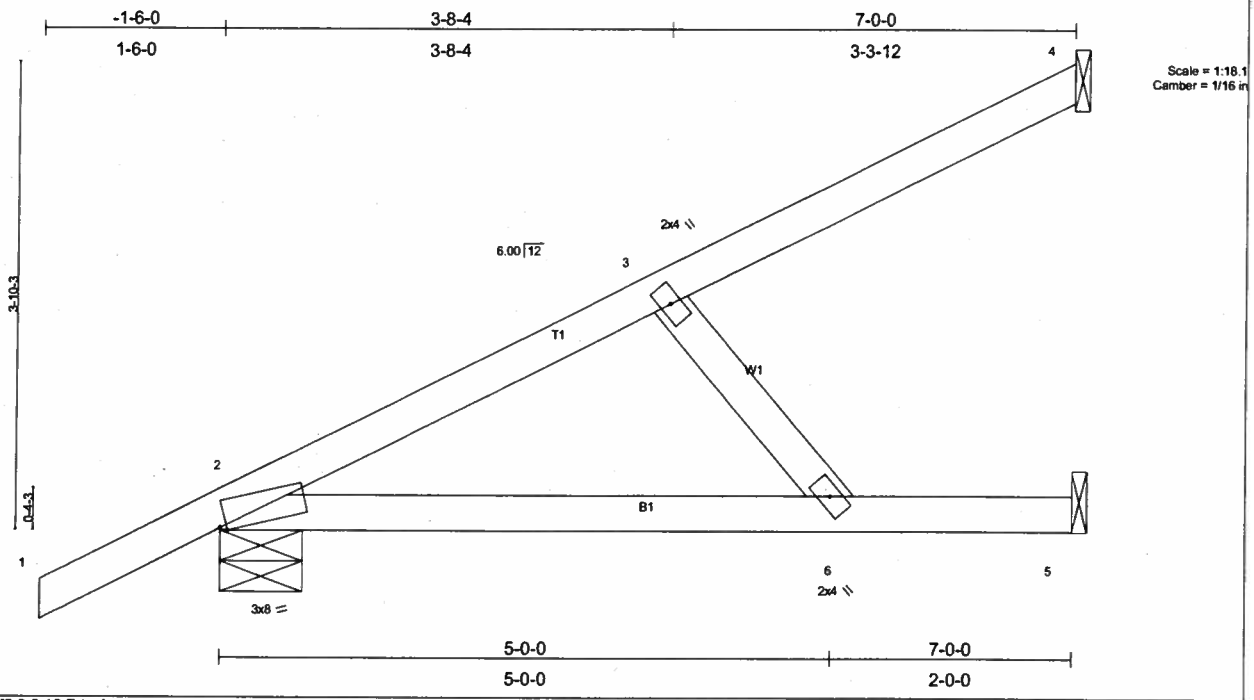

Plate Offsets (X,Y): [2:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.30	2-6	>268	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.41	Vert(TL)	0.25	2-6	>317	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 28 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=102/Mechanical, 2=390/0-8-0, 5=162/Mechanical
Max Horz 2=247(load case 5)
Max Uplift4=-109(load case 5), 2=-327(load case 5), 5=-154(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-142/0, 3-4=-61/37
BOT CHORD 2-6=-107/92, 5-6=0/0
WEBS 3-6=-143/167

JOINT STRESS INDEX
2 = 0.75, 3 = 0.09 and 6 = 0.08

NOTES
1) Wind: ASCE 7-02; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 4, 327 lb uplift at joint 2 and 154 lb uplift at joint 5.

LOAD CASE(S) Standard

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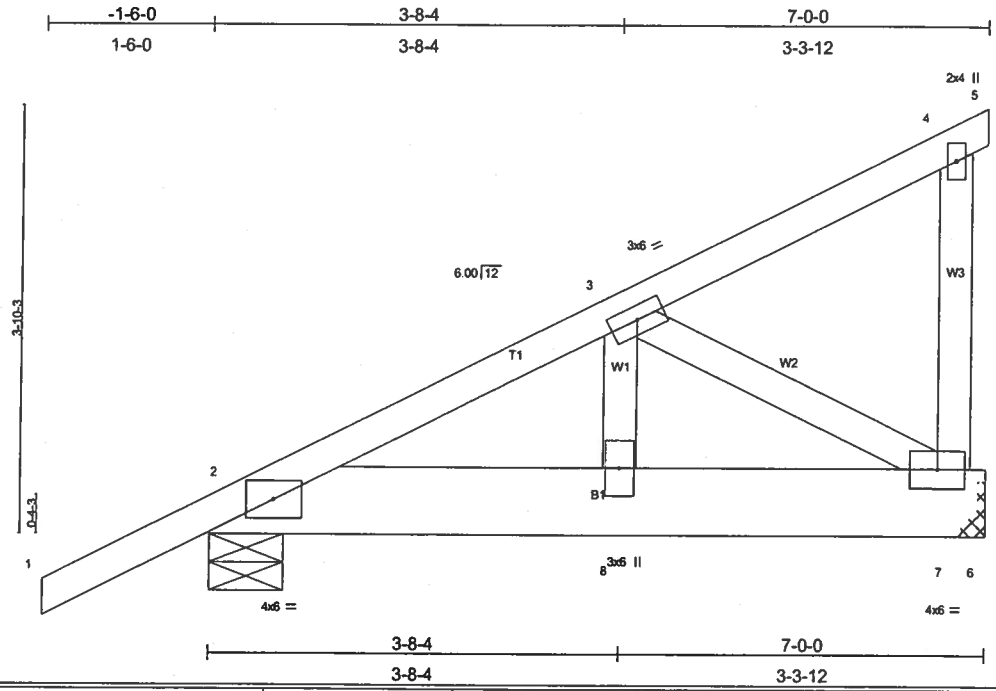
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061060

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	EJ7G	JACK	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:14:23 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.10	Vert(LL)	-0.01	8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.16	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 93 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1296/0-8-0, 7=1270/Mechanical
Max Horz 2=211(load case 4)
Max Uplift2=-527(load case 4), 7=-510(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-1287/372, 3-4=-45/23, 4-5=-2/0
BOT CHORD 2-8=-435/1110, 7-8=-435/1110, 6-7=0/0
WEBS 3-8=-336/1013, 4-7=-72/72, 3-7=-1279/501

JOINT STRESS INDEX
2 = 0.24, 3 = 0.38, 4 = 0.02, 7 = 0.16 and 8 = 0.16

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 527 lb uplift at joint 2 and 510 lb uplift at joint 7.
7) Girder carries tie-in span(s): 16-0-0 from 0-0-0 to 7-0-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-14, 2-6=-318(F=-288)

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061061

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	HGBL1	GABLE	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 10:09:21 2006 Page 1

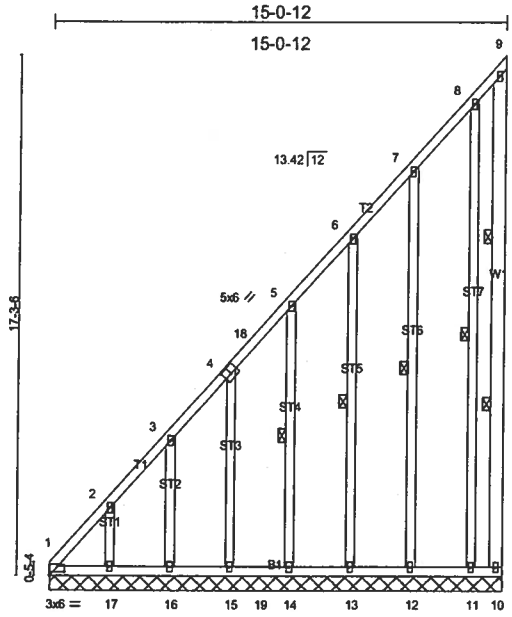

Plate Offsets (X,Y): [1:0-6-1,0-1-4], [4:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	NO	WB	0.20	Horz(TL)	-0.00	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 187 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 6 SYP No.1D
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 6-13, 7-12, 8-11
2 Rows at 1/3 pts 9-10

REACTIONS (lb/size) 10=62/15-0-12, 1=67/15-0-12, 17=209/15-0-12, 16=83/15-0-12, 15=515/15-0-12, 14=670/15-0-12, 13=280/15-0-12, 12=387/15-0-12, 11=238/15-0-12
Max Horz 1=1331(load case 5)
Max Uplift10=-144(load case 5), 17=-264(load case 5), 16=-116(load case 5), 15=-389(load case 5), 14=-594(load case 5), 13=-392(load case 5), 12=-467(load case 5), 11=-216(load case 5)
Max Grav 10=62(load case 1), 1=1455(load case 5), 17=209(load case 1), 16=95(load case 3), 15=515(load case 1), 14=670(load case 1), 13=280(load case 1), 12=387(load case 1), 11=238(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1945/40, 2-3=-1751/33, 3-4=-1612/37, 4-18=-1428/0, 5-18=-1419/83, 5-6=-1070/82, 6-7=-706/83, 7-8=-323/73, 8-9=-85/32, 9-10=-44/103
BOT CHORD 1-17=-8/3, 16-17=-8/3, 15-16=-8/3, 15-19=-4/1, 14-19=-4/1, 13-14=-4/1, 12-13=-4/1, 11-12=-4/1, 10-11=-4/1
WEBS 2-17=-117/241, 3-16=-96/170, 4-15=-126/234, 5-14=-226/451, 6-13=-224/453, 7-12=-238/479, 8-11=-149/284

JOINT STRESS INDEX
1 = 0.76, 2 = 0.12, 3 = 0.08, 4 = 0.15, 5 = 0.22, 6 = 0.22, 7 = 0.23, 8 = 0.14, 9 = 0.50, 10 = 0.31, 11 = 0.16, 12 = 0.27, 13 = 0.26, 14 = 0.26, 15 = 0.13, 16 = 0.10 and 17 = 0.14

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 10, 264 lb uplift at joint 17, 116 lb uplift at joint 16, 389 lb uplift at joint 15, 594 lb uplift at joint 14, 392 lb uplift at joint 13, 467 lb uplift at joint 12 and 216 lb uplift at joint 11.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 37-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-18=-54, 9-18=-112(F=-59), 1-19=-30, 10-19=-63(F=-33)
Concentrated Loads (lb)
Vert: 19=-539(F)

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061062

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	HGBL2	GABLE	1	1	Job Reference (optional)

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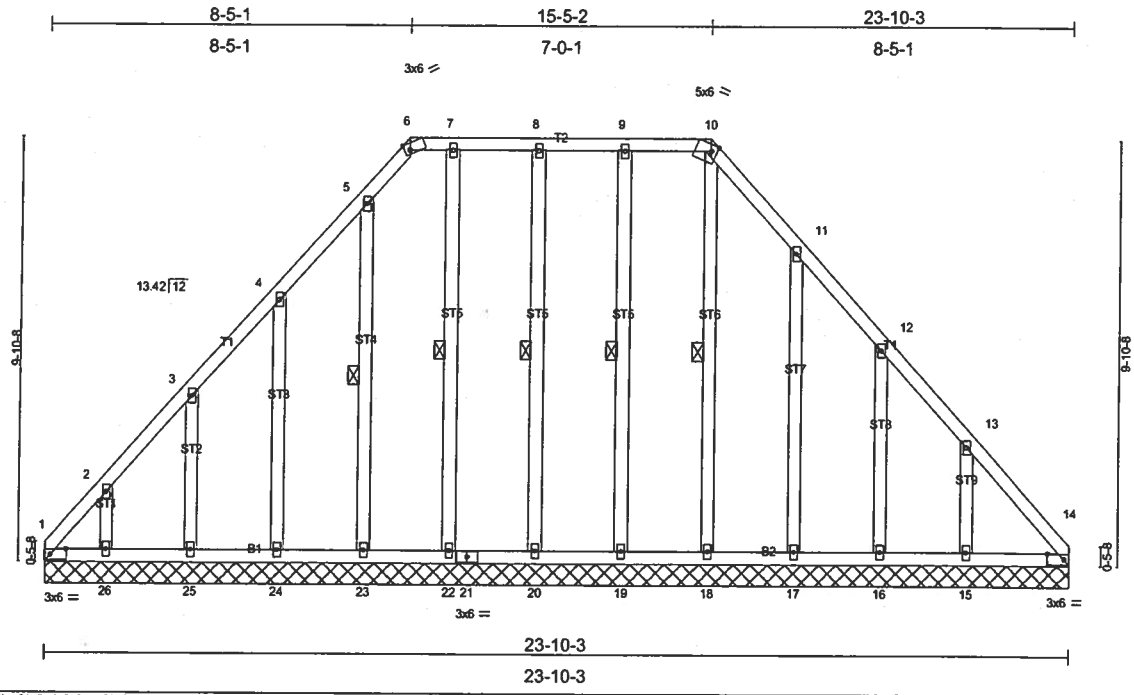


Plate Offsets (X,Y): [1:0-4-9,0-1-8], [6:0-1-9,Edge], [10:0-1-9,Edge], [14:0-4-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.01	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 190 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-18, 9-19, 8-20, 7-22, 5-23

REACTIONS (lb/size) 1=70/23-10-3, 14=109/23-10-3, 18=143/23-10-3, 19=166/23-10-3, 20=171/23-10-3, 22=152/23-10-3, 23=153/23-10-3, 24=171/23-10-3, 25=170/23-10-3, 26=158/23-10-3, 17=171/23-10-3, 16=154/23-10-3, 15=216/23-10-3
Max Horz 1=-345(load case 3)
Max Uplift1=-157(load case 3), 14=-70(load case 4), 18=-2(load case 3), 19=-83(load case 4), 20=-96(load case 3), 22=-60(load case 4), 23=-85(load case 4), 24=-200(load case 5), 25=-177(load case 5), 26=-189(load case 5), 17=-179(load case 6), 16=-166(load case 6), 15=-241(load case 6)
Max Grav 1=282(load case 5), 14=204(load case 6), 18=147(load case 10), 19=171(load case 9), 20=173(load case 10), 22=155(load case 9), 23=155(load case 9), 24=171(load case 1), 25=170(load case 9), 26=158(load case 9), 17=171(load case 10), 16=154(load case 1), 15=216(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-385/222, 2-3=-267/202, 3-4=-162/182, 4-5=-77/186, 5-6=-67/198, 6-7=-23/185, 7-8=-23/185, 8-9=-23/185, 9-10=-24/185, 10-11=-76/203, 11-12=-75/86, 12-13=-123/98, 13-14=-303/124
BOT CHORD 1-26=-83/256, 25-26=-83/256, 24-25=-83/256, 23-24=-83/256, 22-23=-83/256, 21-22=-83/256, 20-21=-83/256, 19-20=-83/256, 18-19=-83/256, 17-18=-83/256, 16-17=-83/256, 15-16=-83/256, 14-15=-83/256
WEBS 10-18=-88/14, 9-19=-110/95, 8-20=-113/108, 7-22=-95/72, 5-23=-95/97, 4-24=-111/212, 3-25=-109/191, 2-26=-98/188, 11-17=-109/189, 12-16=-102/185, 13-15=-130/231

JOINT STRESS INDEX
1 = 0.50, 2 = 0.34, 3 = 0.34, 4 = 0.34, 5 = 0.34, 6 = 0.50, 7 = 0.34, 8 = 0.34, 9 = 0.34, 10 = 0.30, 11 = 0.34, 12 = 0.34, 13 = 0.34, 14 = 0.62, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.15, 22 = 0.34, 23 = 0.34, 24 = 0.34, 25 = 0.34 and 26 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 1, 70 lb uplift at joint 14, 2 lb uplift at joint 18, 83 lb uplift at joint 19, 96 lb uplift at joint 20, 60 lb uplift at joint 22, 85 lb uplift at joint 23, 200 lb uplift at joint 24, 177 lb uplift at joint 25, 189 lb uplift at joint 26, 179 lb uplift at joint 17, 166 lb uplift at joint 16 and 241 lb uplift at joint 15.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061063

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	HGBL3	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 10:08:52 2006 Page 1

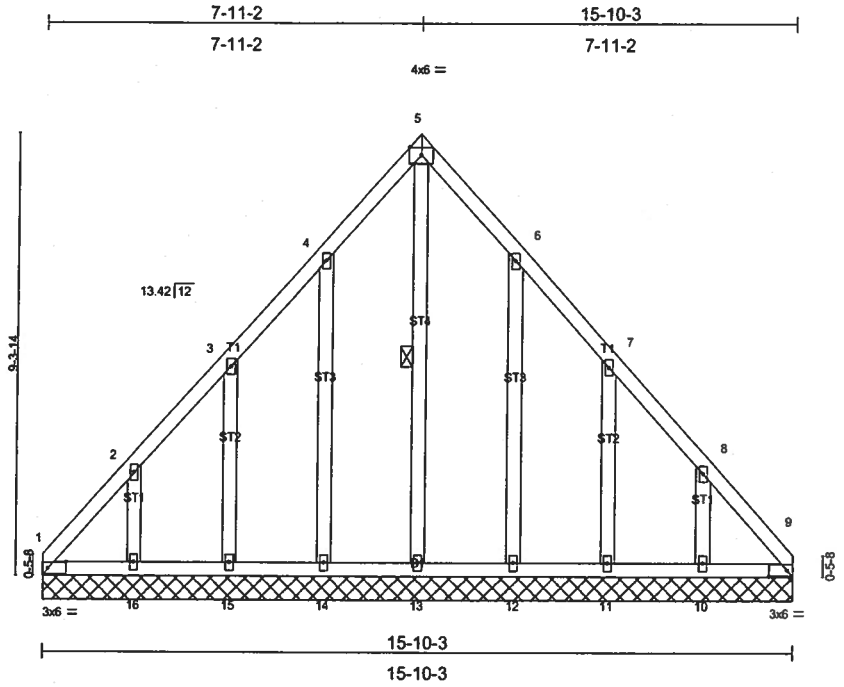


Plate Offsets (X,Y): [1:0-4-9,0-1-8], [5:Edge,0-1-14], [9:0-4-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 111 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS (lb/size) 1=88/15-10-3, 9=88/15-10-3, 13=122/15-10-3, 14=167/15-10-3, 15=164/15-10-3, 16=185/15-10-3, 12=167/15-10-3, 11=164/15-10-3, 10=185/15-10-3
Max Horz 1=-321(load case 3)
Max Uplift1=-118(load case 3), 9=-67(load case 4), 14=-165(load case 5), 15=-180(load case 5), 16=-210(load case 5), 12=-163(load case 6), 11=-181(load case 6), 10=-209(load case 6)
Max Grav 1=243(load case 4), 9=212(load case 6), 13=203(load case 6), 14=172(load case 9), 15=164(load case 1), 16=185(load case 9), 12=172(load case 10), 11=164(load case 1), 10=185(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-334/180, 2-3=-221/157, 3-4=-118/143, 4-5=-71/193, 5-6=-71/181, 6-7=-73/78, 7-8=-156/92, 8-9=-305/113
BOT CHORD 1-16=-75/244, 15-16=-75/244, 14-15=-75/244, 13-14=-75/244, 12-13=-75/244, 11-12=-75/244, 10-11=-75/244, 9-10=-75/244
WEBS 5-13=-191/0, 4-14=-111/176, 3-15=-108/197, 2-16=-113/204, 6-12=-111/173, 7-11=-108/197, 8-10=-113/203

JOINT STRESS INDEX
1 = 0.42, 2 = 0.10, 3 = 0.10, 4 = 0.08, 5 = 0.13, 6 = 0.08, 7 = 0.10, 8 = 0.10, 9 = 0.42, 10 = 0.12, 11 = 0.11, 12 = 0.10, 13 = 0.05, 14 = 0.10, 15 = 0.11 and 16 = 0.12

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1, 67 lb uplift at joint 9, 165 lb uplift at joint 14, 180 lb uplift at joint 15, 210 lb uplift at joint 16, 163 lb uplift at joint 12, 181 lb uplift at joint 11 and 209 lb uplift at joint 10.

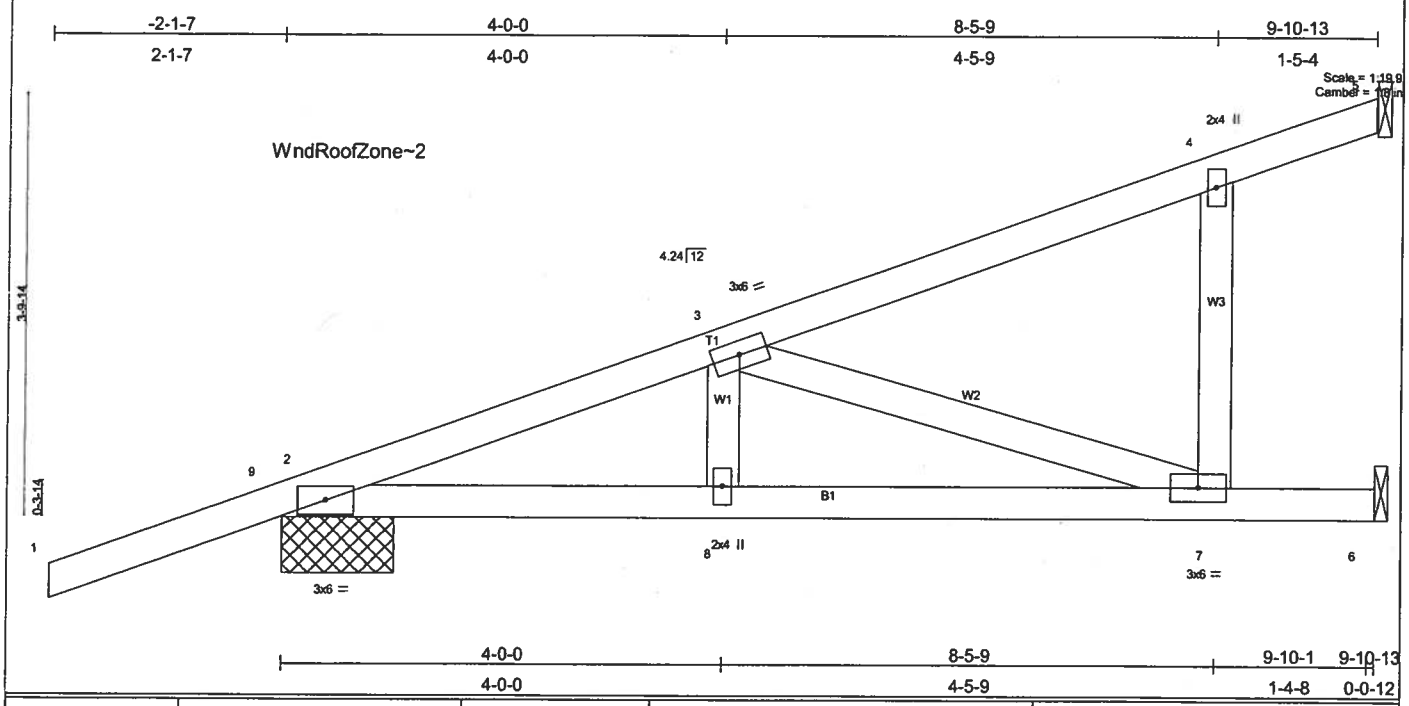
LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061064

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	HJ9	MONO TRUSS	7	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:17:03 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.75	Vert(LL)	0.29	7-8	>393	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-0.34	7-8	>332	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS (lb/size) 5=314/Mechanical, 2=484/1-0-1, 6=339/Mechanical
Max Horz 2=296(load case 2)
Max Uplift5=-255(load case 2), 2=-420(load case 2), 6=-270(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=0/33, 2-9=0/33, 2-3=-963/547, 3-4=-135/17, 4-5=-94/99
BOT CHORD 2-8=-746/893, 7-8=-746/893, 6-7=0/0
WEBS 3-8=-192/264, 3-7=-938/784, 4-7=0/65

JOINT STRESS INDEX
2 = 0.66, 3 = 0.33, 4 = 0.04, 7 = 0.34 and 8 = 0.19

NOTES
1) Wind: ASCE 7-02; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 5, 420 lb uplift at joint 2 and 270 lb uplift at joint 6.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-9=-54
Trapezoidal Loads (plf)
Vert: 9=0(F=27, B=27)-to-5=-134(F=-40, B=-40), 2=-3(F=14, B=14)-to-6=-74(F=-22, B=-22)

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061065

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	PB01	VALLEY	6	1	Job Reference (optional)

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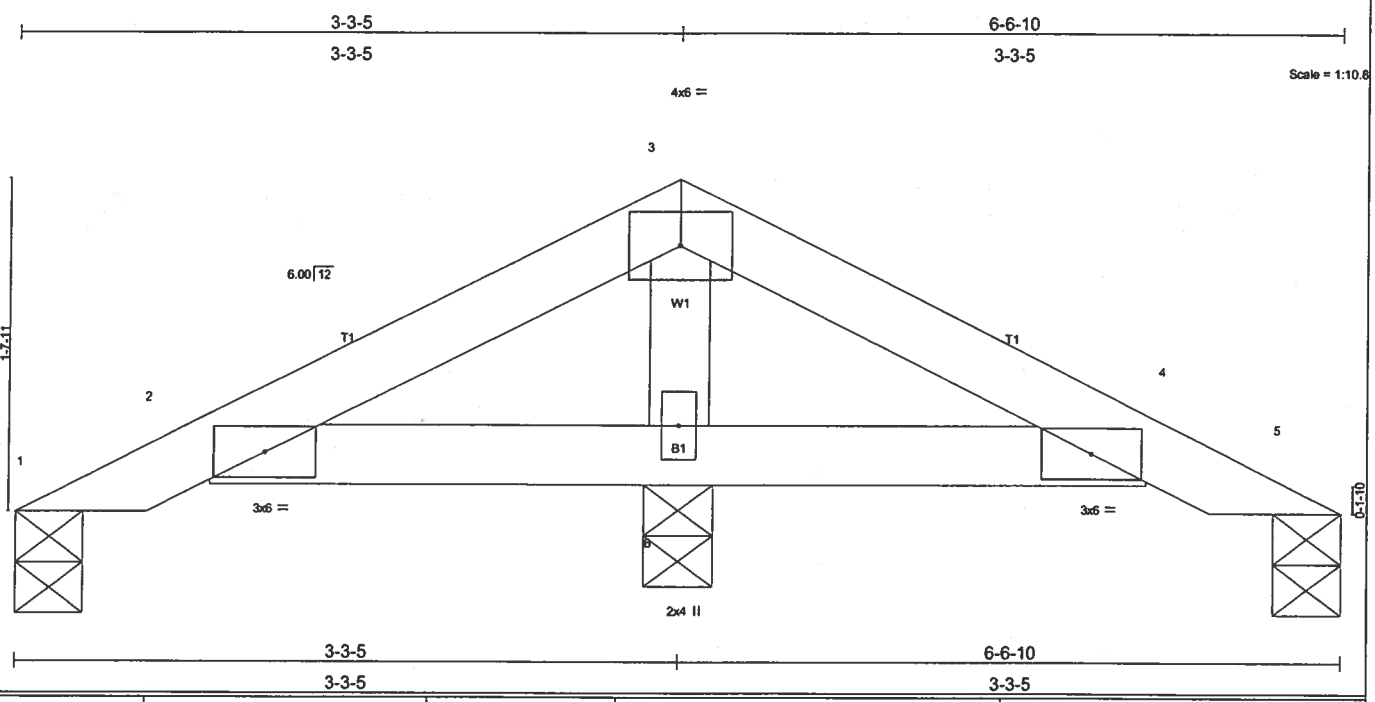

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.08	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.01	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=46/0-4-0, 5=46/0-4-0, 6=400/0-4-0
Max Horz 1=-23(load case 3)
Max Uplift1=-23(load case 5), 5=-31(load case 6), 6=-124(load case 5)
Max Grav 1=64(load case 9), 5=64(load case 10), 6=400(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-24/31, 2-3=-51/174, 3-4=-42/174, 4-5=-24/17
BOT CHORD 2-6=-123/70, 4-6=-123/70
WEBS 3-6=-285/120

JOINT STRESS INDEX
2 = 0.18, 3 = 0.20, 4 = 0.18 and 6 = 0.10

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 31 lb uplift at joint 5 and 124 lb uplift at joint 6.
6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061066

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T01	HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:18:57 2006 Page 1

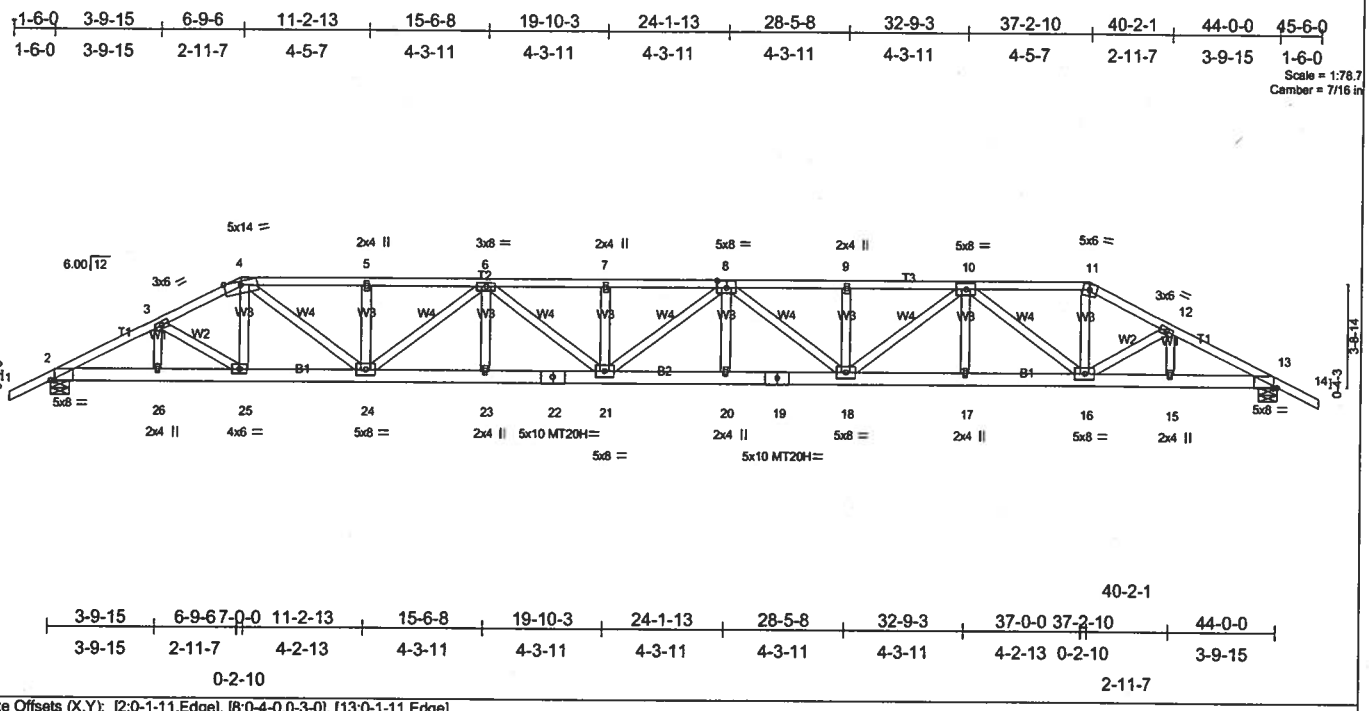

Plate Offsets (X,Y): [2:0-1-11,Edge], [8:0-4-0,0-3-0], [13:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.69	20-21	>748	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-1.11	20-21	>468	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(TL)	0.19	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 556 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-6 oc bracing.

REACTIONS (lb/size) 2=3838/0-8-0, 13=3838/0-8-0
Max Horz 2=-78(load case 5)
Max Uplift2=-1578(load case 3), 13=-1578(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-7331/3108, 3-4=-7541/3302, 4-5=-9638/4275, 5-6=-9637/4276, 6-7=-12514/5542, 7-8=-12514/5542, 8-9=-11560/5125, 9-10=-11560/5125, 10-11=-6830/3020, 11-12=-7501/3282, 12-13=-7342/3115, 13-14=0/39
BOT CHORD 2-26=-2724/6411, 25-26=-2724/6411, 24-25=-2925/6771, 23-24=-5094/11643, 22-23=-5094/11643, 21-22=-5094/11643, 20-21=-5502/12604, 19-20=-5502/12604, 18-19=-5502/12604, 17-18=-4197/9703, 16-17=-4197/9703, 15-16=-2690/6420, 13-15=-2690/6420
WEBS 3-26=-219/153, 3-25=-295/485, 4-25=-276/794, 4-24=-1634/3626, 5-24=-461/394, 6-24=-2570/1160, 6-23=-2/377, 6-21=-506/1136, 7-21=-454/378, 8-21=-142/73, 8-20=0/371, 8-18=-1352/616, 9-18=-456/374, 10-18=-1065/2385, 10-17=0/297, 10-16=-3681/1667, 11-16=-1205/2955, 12-16=-269/434, 12-15=-167/128

JOINT STRESS INDEX
2 = 0.82, 3 = 0.41, 4 = 0.92, 5 = 0.34, 6 = 0.62, 7 = 0.34, 8 = 0.75, 9 = 0.34, 10 = 0.56, 11 = 0.72, 12 = 0.41, 13 = 0.82, 15 = 0.34, 16 = 0.44, 17 = 0.34, 18 = 0.56, 19 = 0.84, 20 = 0.34, 21 = 0.28, 22 = 0.79, 23 = 0.34, 24 = 0.85, 25 = 0.25 and 26 = 0.34

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1578 lb uplift at joint 2 and 1578 lb uplift at joint 13.
9) Girder carries hip end with 7-0-0 end setback.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 37-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-11=-113(F=-58), 11-14=-54, 2-25=-30, 16-25=-62(F=-33), 13-16=-30
Concentrated Loads (lb)
Vert: 25=-539(F) 16=-539(F)

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061067

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T02	SPECIAL	1	1	Job Reference (optional)

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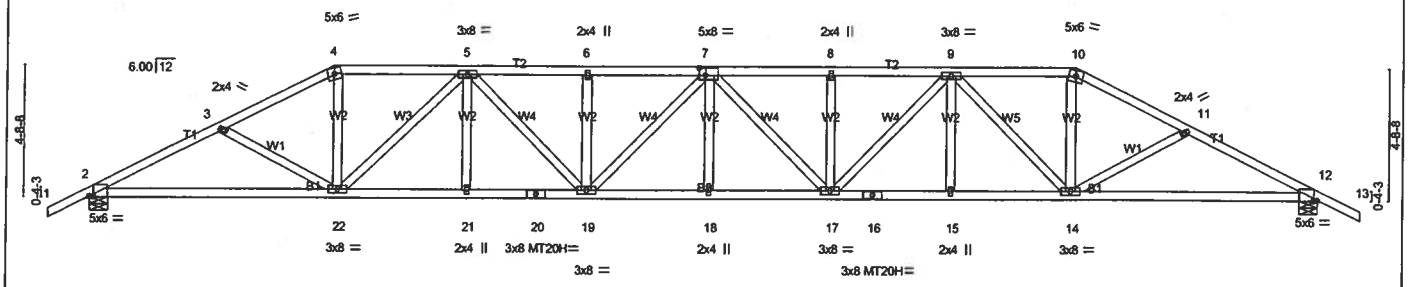
1-6-0	4-9-4	8-8-10	13-5-12	17-9-12	22-1-12	26-5-12	30-9-12	35-3-6	39-2-12	44-0-0	45-6-0
1-6-0	4-9-4	3-11-6	4-9-2	4-4-0	4-4-0	4-4-0	4-4-0	4-5-10	3-11-6	4-9-4	1-6-0

Scale = 1:78.7
Camber = 5/16 in



8-8-10	9-0-0	13-5-12	17-9-12	22-1-12	26-5-12	30-9-12	35-0-0	35-3-6	44-0-0
8-8-10	0-3-6	4-5-12	4-4-0	4-4-0	4-4-0	4-4-0	4-2-4	0-3-6	8-8-10

Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-2-12,0-3-0], [12:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.51	18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.82	18-19	>632	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(TL)	0.25	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 248 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-3-9 oc bracing.

REACTIONS (lb/size) 2=1919/0-8-0, 12=1919/0-8-0
Max Horz 2=90(load case 5)
Max Uplift2=-591(load case 5), 12=-591(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3363/1041, 3-4=-3203/1027, 4-5=-2861/956, 5-6=-4301/1482, 6-7=-4301/1482, 7-8=-4280/1476, 8-9=-4280/1476, 9-10=-2859/955, 10-11=-3202/1027, 11-12=-3363/1042, 12-13=0/36
BOT CHORD 2-22=-909/2918, 21-22=-1222/3774, 20-21=-1222/3774, 19-20=-1222/3774, 18-19=-1450/4466, 17-18=-1450/4470, 16-17=-1147/3723, 15-16=-1147/3723, 14-15=-1147/3723, 12-14=-853/2919
WEBS 3-22=-113/166, 4-22=-316/1158, 5-22=-1320/535, 5-21=0/97, 5-19=-294/793, 6-19=-224/154, 7-19=-282/118, 7-18=0/123, 7-17=-311/125, 8-17=-239/165, 9-17=-312/836, 9-15=0/89, 9-14=-1289/525, 10-14=-323/1165, 11-14=-116/167

JOINT STRESS INDEX
2 = 0.84, 3 = 0.34, 4 = 0.58, 5 = 0.79, 6 = 0.34, 7 = 0.81, 8 = 0.34, 9 = 0.83, 10 = 0.58, 11 = 0.34, 12 = 0.84, 14 = 0.64, 15 = 0.34, 16 = 0.92, 17 = 0.83, 18 = 0.34, 19 = 0.79, 20 = 0.94, 21 = 0.34 and 22 = 0.65

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 591 lb uplift at joint 2 and 591 lb uplift at joint 12.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

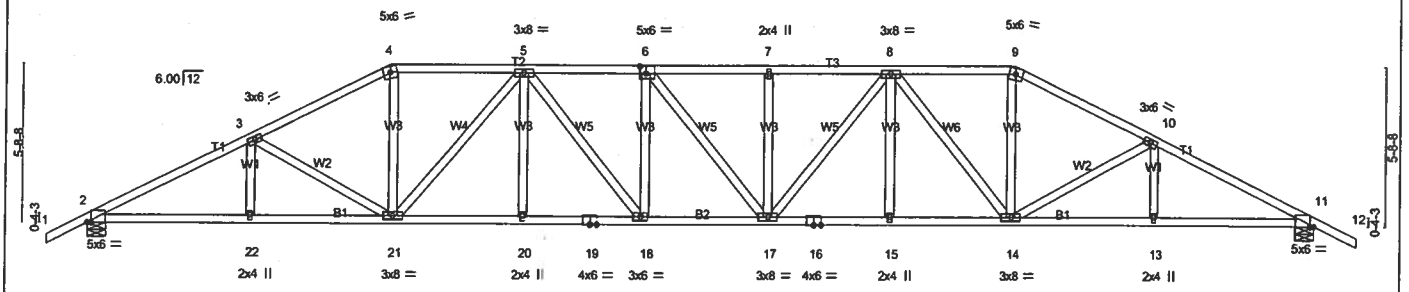
Dwg.#1108061068

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T03	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:23:32 2006 Page 1

1-6-0	5-9-4	10-8-10	15-6-9	19-11-6	24-4-2	28-8-15	33-3-6	38-2-12	44-0-0	45-6-0
1-6-0	5-9-4	4-11-6	4-9-15	4-4-13	4-4-13	4-4-13	4-6-7	4-11-6	5-9-4	1-6-0

Scale = 1:78.7
Camber = 1/4 in



5-9-4	10-8-10	11-0-0	15-6-9	19-11-6	24-4-2	28-8-15	33-0-0	33-3-6	38-2-12	44-0-0
5-9-4	4-11-6	0-3-6	4-6-9	4-4-13	4-4-13	4-4-13	4-3-1	0-3-6	4-11-6	5-9-4

Plate Offsets (X,Y): [2:0-1-11,Edge], [6:0-2-8,0-3-0], [11:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.39	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.63	17-18	>822	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.22	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 259 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-9 oc bracing.

REACTIONS (lb/size) 2=1919/0-8-0, 11=1919/0-8-0
Max Horz 2=104(load case 5)
Max Uplift2=-612(load case 5), 11=-612(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3449/943, 3-4=-3043/932, 4-5=-2697/868, 5-6=-3613/1179, 6-7=-3603/1176, 7-8=-3603/1176, 8-9=-2695/867, 9-10=-3042/931, 10-11=-3450/943, 11-12=0/36
BOT CHORD 2-22=-835/2978, 21-22=-835/2978, 20-21=-992/3322, 19-20=-992/3322, 18-19=-992/3322, 17-18=-1082/3613, 16-17=-924/3290, 15-16=-924/3290, 14-15=-924/3290, 13-14=-764/2979, 11-13=-764/2979
WEBS 3-22=0/161, 3-21=-362/212, 4-21=-270/1058, 5-21=-1036/406, 5-20=0/130, 5-18=-200/518, 6-18=-269/180, 6-17=-79/47, 7-17=-240/165, 8-17=-213/553, 8-15=0/125, 8-14=-1024/401, 9-14=-276/1065, 10-14=-365/213, 10-13=0/162

JOINT STRESS INDEX
2 = 0.86, 3 = 0.41, 4 = 0.54, 5 = 0.57, 6 = 0.54, 7 = 0.34, 8 = 0.57, 9 = 0.54, 10 = 0.41, 11 = 0.86, 13 = 0.34, 14 = 0.57, 15 = 0.34, 16 = 0.98, 17 = 0.57, 18 = 0.40, 19 = 0.99, 20 = 0.34, 21 = 0.57 and 22 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 2 and 612 lb uplift at joint 11.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

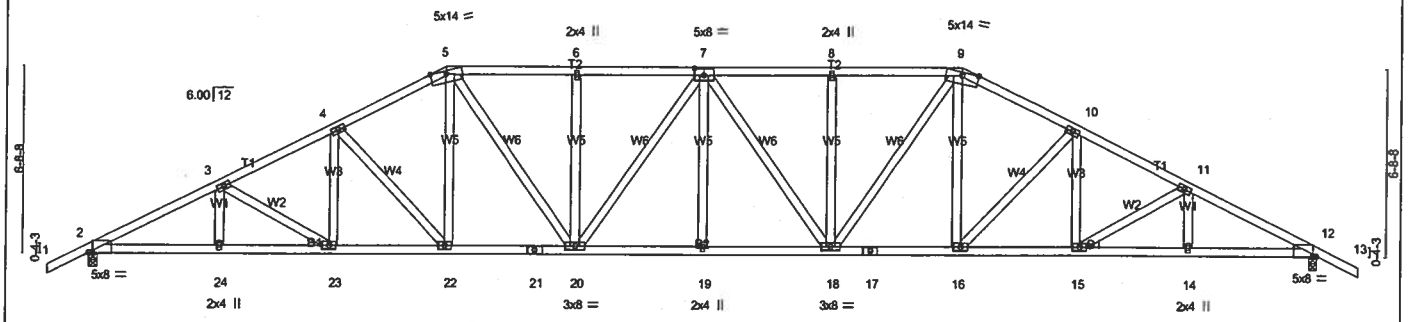
Dwg.#1108061069

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
TEMP	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:26:33 2006 Page 1

1-6-0	4-7-3	8-7-15	12-8-10	17-5-3	22-0-0	26-6-13	31-3-6	35-4-1	39-4-13	44-0-0	45-6-0
1-6-0	4-7-3	4-0-11	4-0-11	4-8-9	4-6-13	4-6-13	4-8-9	4-0-11	4-0-11	4-7-3	1-6-0

Scale = 1:78.7
Camber = 3/16 in



4-7-3	8-7-15	12-8-10	17-5-3	22-0-0	26-6-13	31-3-6	35-4-1	39-4-13	44-0-0
4-7-3	4-0-11	4-0-11	4-8-9	4-6-13	4-6-13	4-8-9	4-0-11	4-0-11	4-7-3

Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-4-0,0-3-0], [12:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.34	19-20	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.54	19-20	>963	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.21	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 279 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-9-6 oc bracing.

REACTIONS (lb/size) 2=1925/0-3-8, 12=1925/0-3-8
Max Horz 2=-118(load case 6)
Max Uplift2=-625(load case 5), 12=-625(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-3594/978, 3-4=-3273/942, 4-5=-2919/899, 5-6=-3000/964, 6-7=-3000/964, 7-8=-3000/964, 8-9=-3000/964, 9-10=-2919/899, 10-11=-3273/942, 11-12=-3594/979, 12-13=0/35
BOT CHORD 2-24=-873/3132, 23-24=-873/3132, 22-23=-740/2885, 21-22=-666/2579, 20-21=-666/2579, 19-20=-830/3136, 18-19=-830/3136, 17-18=-580/2579, 16-17=-580/2579, 15-16=-658/2885, 14-15=-756/3132, 12-14=-756/3132
WEBS 3-24=0/120, 3-23=-291/156, 4-23=-57/272, 4-22=-458/246, 5-22=-151/465, 5-20=-318/807, 6-20=-253/180, 7-20=-320/129, 7-19=0/135, 7-18=-320/129, 8-18=-253/181, 9-18=-318/807, 9-16=-151/465, 10-16=-458/246, 10-15=-58/272, 11-15=-291/157, 11-14=0/120

JOINT STRESS INDEX
2 = 0.81, 3 = 0.41, 4 = 0.41, 5 = 0.67, 6 = 0.34, 7 = 0.51, 8 = 0.34, 9 = 0.67, 10 = 0.41, 11 = 0.41, 12 = 0.81, 14 = 0.34, 15 = 0.35, 16 = 0.38, 17 = 0.89, 18 = 0.83, 19 = 0.34, 20 = 0.83, 21 = 0.89, 22 = 0.38, 23 = 0.35 and 24 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 625 lb uplift at joint 2 and 625 lb uplift at joint 12.

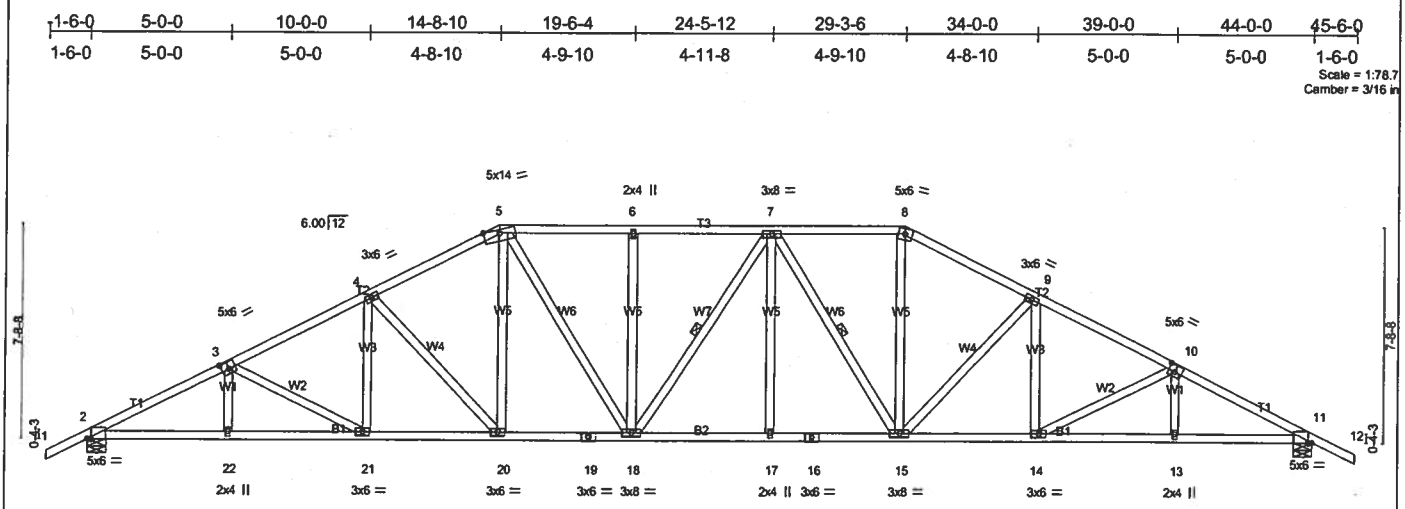
LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061070

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:29:31 2006 Page 1



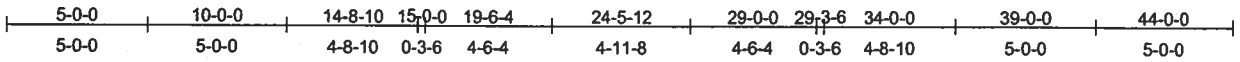


Plate Offsets (X,Y): [2:0-1-11,Edge], [3:0-3-0,0-3-0], [10:0-3-0,0-3-0], [11:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	-0.30	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.48	17-18	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(TL)	0.20	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 278 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-9-6 oc bracing.
WEBS 1 Row at midpt 7-18, 7-15

REACTIONS (lb/size) 2=1919/0-8-0, 11=1919/0-8-0
Max Horz 2=132(load case 5)
Max Uplift2=-647(load case 5), 11=-647(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3461/972, 3-4=-3107/907, 4-5=-2699/838, 5-6=-2633/864, 6-7=-2633/864, 7-8=-2381/788, 8-9=-2700/838, 9-10=-3107/907, 10-11=-3461/973, 11-12=0/36
BOT CHORD 2-22=-872/2989, 21-22=-871/2992, 20-21=-716/2726, 19-20=-539/2372, 18-19=-539/2372, 17-18=-582/2632, 16-17=-582/2632, 15-16=-582/2632, 14-15=-590/2726, 13-14=-740/2992, 11-13=-741/2989
WEBS 3-22=0/141, 3-21=-307/172, 4-21=-50/292, 4-20=-529/285, 5-20=-177/521, 5-18=-244/603, 6-18=-271/190, 7-18=-109/112, 7-17=0/142, 7-15=-595/243, 8-15=-231/920, 9-15=-526/285, 9-14=-51/292, 10-14=-308/173, 10-13=0/141

JOINT STRESS INDEX
2 = 0.86, 3 = 0.44, 4 = 0.41, 5 = 0.60, 6 = 0.34, 7 = 0.59, 8 = 0.48, 9 = 0.41, 10 = 0.44, 11 = 0.86, 13 = 0.34, 14 = 0.35, 15 = 0.59, 16 = 0.90, 17 = 0.34, 18 = 0.64, 19 = 0.81, 20 = 0.38, 21 = 0.35 and 22 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 647 lb uplift at joint 2 and 647 lb uplift at joint 11.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

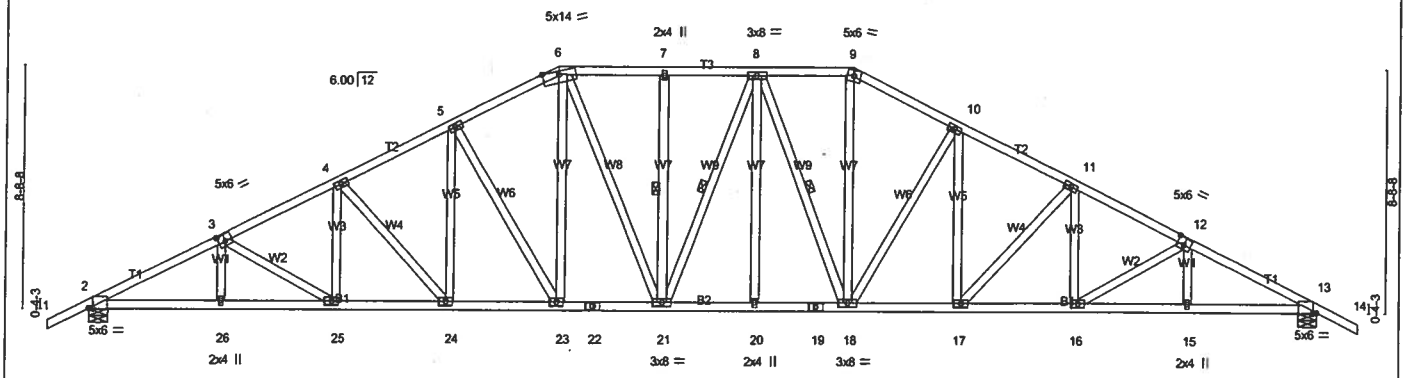
Dwg.#1108061071

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T06	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:31:16 2006 Page 1

1-6-0	4-7-14	8-9-4	12-10-10	16-8-10	20-5-12	23-9-12	27-3-6	31-1-6	35-2-12	39-4-2	44-0-0	45-6-0
1-6-0	4-7-14	4-1-6	4-1-6	3-10-0	3-9-2	3-4-0	3-5-10	3-10-0	4-1-6	4-1-6	4-7-14	1-6-0

Scale = 1:78.7
Camber = 3/16 in



4-7-14	8-9-4	12-10-10	16-8-10	17-0-0	20-5-12	23-9-12	27-0-0	27-3-6	31-1-6	35-2-12	39-4-2	44-0-0
4-7-14	4-1-6	4-1-6	3-10-0	0-3-6	3-5-12	3-4-0	3-2-4	0-3-6	3-10-0	4-1-6	4-1-6	4-7-14

Plate Offsets (X,Y): [2:0-1-11,Edge], [3:0-3-0,0-3-0], [12:0-3-0,0-3-0], [13:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.27	20-21	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.44	20-21	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.19	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 318 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-12 oc bracing.
WEBS 1 Row at midpt 7-21, 8-21, 8-18

REACTIONS (lb/size) 2=1919/0-8-0, 13=1919/0-8-0
Max Horz 2=146(load case 5)
Max Uplift2=-663(load case 5), 13=-663(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3450/996, 3-4=-3175/964, 4-5=-2850/893, 5-6=-2505/817, 6-7=-2330/785, 7-8=-2330/785, 8-9=-2216/771, 9-10=-2506/817, 10-11=-2849/893, 11-12=-3176/964, 12-13=-3450/997, 13-14=0/36
BOT CHORD 2-26=-907/2976, 25-26=-908/2972, 24-25=-799/2799, 23-24=-640/2503, 22-23=-483/2210, 21-22=-483/2210, 20-21=-459/2321, 19-20=-459/2321, 18-19=-459/2321, 17-18=-507/2503, 16-17=-653/2799, 15-16=-763/2972, 13-15=-762/2976
WEBS 3-26=0/119, 3-25=-216/127, 4-25=-46/243, 4-24=-439/233, 5-24=-144/440, 5-23=-585/309, 6-23=-242/615, 6-21=-181/437, 7-21=-194/137, 8-21=-107/151, 8-20=0/88, 8-18=-432/184, 9-18=-242/880, 10-18=-582/309, 10-17=-143/439, 11-17=-440/233, 11-16=-47/243, 12-16=-215/128, 12-15=0/119

JOINT STRESS INDEX
2 = 0.86, 3 = 0.40, 4 = 0.41, 5 = 0.44, 6 = 0.57, 7 = 0.34, 8 = 0.65, 9 = 0.45, 10 = 0.44, 11 = 0.41, 12 = 0.40, 13 = 0.86, 15 = 0.34, 16 = 0.35, 17 = 0.38, 18 = 0.65, 19 = 0.77, 20 = 0.34, 21 = 0.65, 22 = 0.74, 23 = 0.44, 24 = 0.38, 25 = 0.35 and 26 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 663 lb uplift at joint 2 and 663 lb uplift at joint 13.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

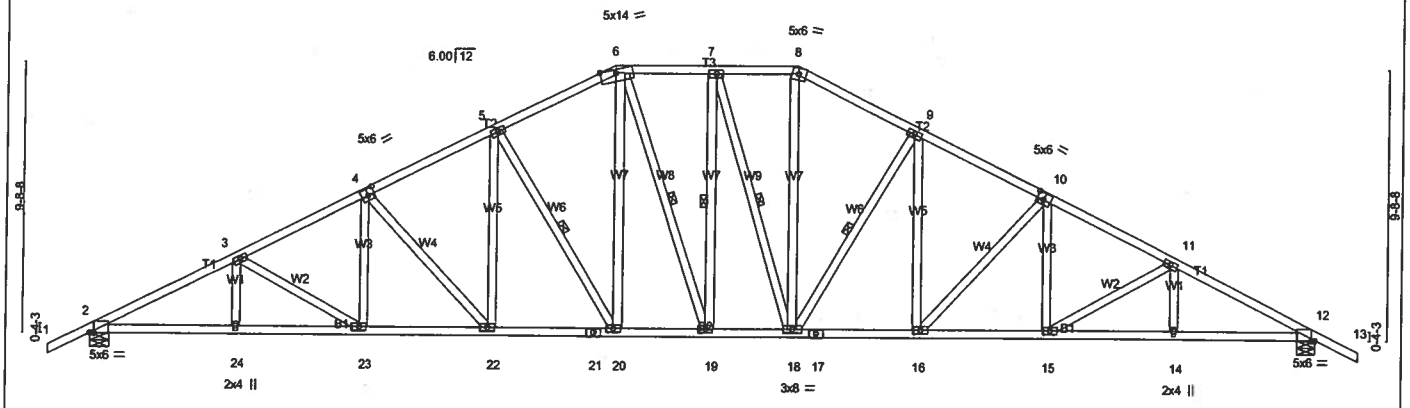
Dwg.#1108061072

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T07	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:32:41 2006 Page 1

1-6-0	5-1-14	9-9-4	14-4-10	18-8-10	22-1-12	25-3-6	29-7-6	34-2-12	38-10-2	44-0-0	45-6-0
1-6-0	5-1-14	4-7-6	4-7-6	4-4-0	3-5-2	3-1-10	4-4-0	4-7-6	4-7-6	5-1-14	1-6-0

Scale = 1:78.7
Camber = 3/16 in



5-1-14	9-9-4	14-4-10	18-8-10	19-0-0	25-3-6	29-7-6	34-2-12	38-10-2	44-0-0
5-1-14	4-7-6	4-7-6	4-4-0	0-3-6	3-1-10	4-4-0	4-7-6	4-7-6	5-1-14

22-1-12

Plate Offsets (X,Y): [2:0-1-11,Edge], [4:0-3-0,0-3-0], [10:0-3-0,0-3-0], [12:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.27	20-22	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.43	20-22	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.19	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 312 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-1 oc bracing.
WEBS 1 Row at midpt 5-20, 6-19, 7-19, 7-18, 9-18

REACTIONS (lb/size) 2=1919/0-8-0, 12=1919/0-8-0
Max Horz 2=160(load case 5)
Max Uplift2=-677(load case 5), 12=-677(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3456/1030, 3-4=-3115/976, 4-5=-2733/893, 5-6=-2336/802, 6-7=-2088/744, 7-8=-2055/762, 8-9=-2337/803, 9-10=-2733/893, 10-11=-3115/976, 11-12=-3456/1031, 12-13=0/36
BOT CHORD 2-24=-948/2984, 23-24=-948/2984, 22-23=-804/2733, 21-22=-623/2394, 20-21=-623/2394, 19-20=-442/2053, 18-19=-422/2088, 17-18=-500/2394, 16-17=-500/2394, 15-16=-644/2733, 14-15=-789/2984, 12-14=-789/2984
WEBS 3-24=0/139, 3-23=-300/165, 4-23=-58/292, 4-22=-506/267, 5-22=-168/510, 5-20=-674/352, 6-20=-275/695, 6-19=-130/282, 7-19=-186/139, 7-18=-288/135, 8-18=-236/790, 9-18=-673/351, 9-16=-167/510, 10-16=-506/267, 10-15=-59/292, 11-15=-300/166, 11-14=0/139

JOINT STRESS INDEX
2 = 0.86, 3 = 0.41, 4 = 0.37, 5 = 0.44, 6 = 0.52, 7 = 0.51, 8 = 0.41, 9 = 0.44, 10 = 0.38, 11 = 0.41, 12 = 0.86, 14 = 0.34, 15 = 0.35, 16 = 0.38, 17 = 0.79, 18 = 0.67, 19 = 0.50, 20 = 0.45, 21 = 0.80, 22 = 0.38, 23 = 0.35 and 24 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 677 lb uplift at joint 2 and 677 lb uplift at joint 12.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061073

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T08	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:33:48 2006 Page 1

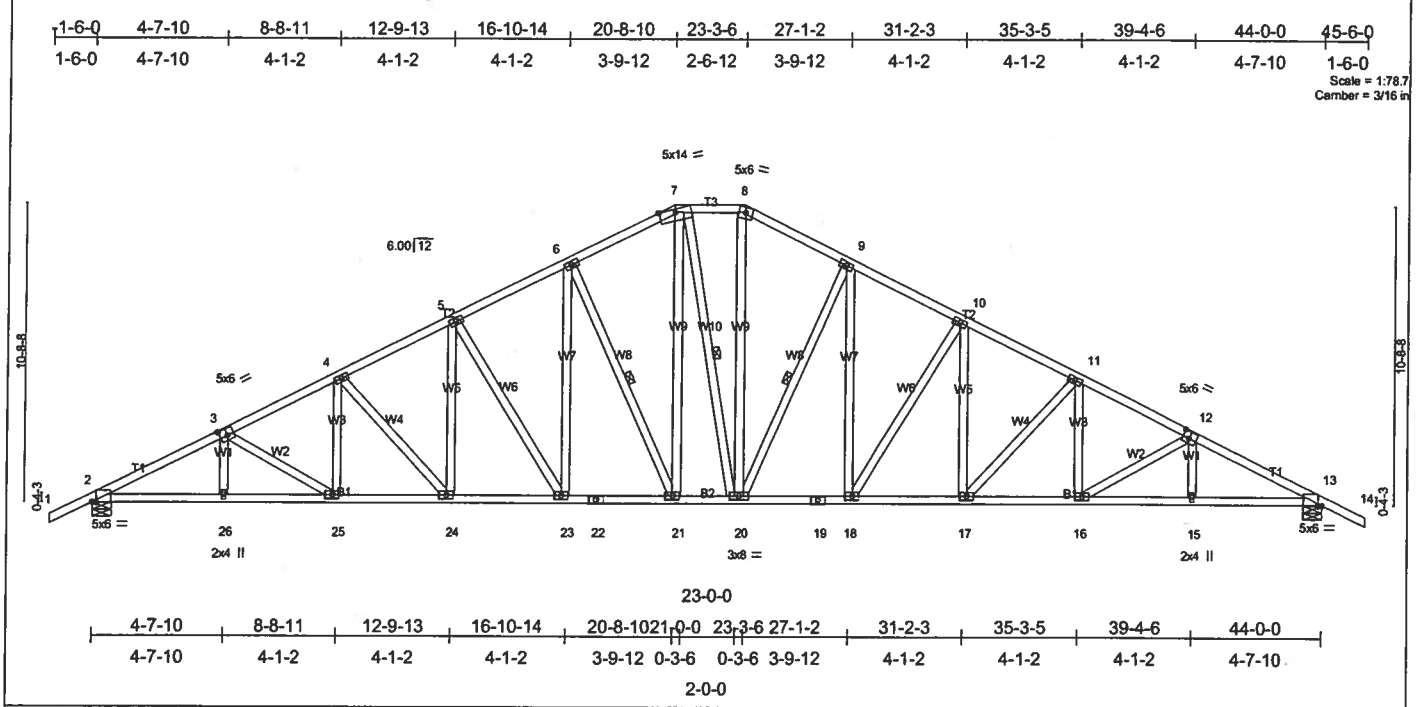


Plate Offsets (X,Y): [2:0-1-11,Edge], [3:0-3-0,0-3-0], [12:0-3-0,0-3-0], [13:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.28	21-23	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.44	21-23	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.19	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 329 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-9 oc bracing.
WEBS 1 Row at midpt 6-21, 7-20, 9-20

REACTIONS (lb/size) 2=1919/0-8-0, 13=1919/0-8-0
Max Horz 2=174(load case 5)
Max Uplift2=-689(load case 5), 13=-707(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3450/1050, 3-4=-3178/1020, 4-5=-2856/952, 5-6=-2504/872, 6-7=-2147/823, 7-8=-1892/783, 8-9=-2150/832, 9-10=-2502/911, 10-11=-2856/991, 11-12=-3178/1059, 12-13=-3450/1089, 13-14=0/36
BOT CHORD 2-26=-982/2975, 25-26=-983/2973, 24-25=-878/2801, 23-24=-722/2510, 22-23=-557/2195, 21-22=-557/2195, 20-21=-394/1884, 19-20=-469/2193, 18-19=-469/2193, 17-18=-583/2511, 16-17=-739/2801, 15-16=-843/2973, 13-15=-842/2975
WEBS 3-26=0/119, 3-25=-227/122, 4-25=-44/246, 4-24=-438/229, 5-24=-142/441, 5-23=-595/309, 6-23=-237/631, 6-21=-769/396, 7-21=-333/767, 7-20=-177/229, 8-20=-274/752, 9-20=-747/387, 9-18=-233/622, 10-18=-597/310, 10-17=-142/441, 11-17=-434/228, 11-16=-43/243, 12-16=-221/121, 12-15=0/120

JOINT STRESS INDEX
2 = 0.86, 3 = 0.40, 4 = 0.41, 5 = 0.44, 6 = 0.47, 7 = 0.48, 8 = 0.38, 9 = 0.46, 10 = 0.44, 11 = 0.41, 12 = 0.40, 13 = 0.86, 15 = 0.34, 16 = 0.35, 17 = 0.38, 18 = 0.44, 19 = 0.74, 20 = 0.63, 21 = 0.50, 22 = 0.75, 23 = 0.44, 24 = 0.38, 25 = 0.35 and 26 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 689 lb uplift at joint 2 and 707 lb uplift at joint 13.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061074

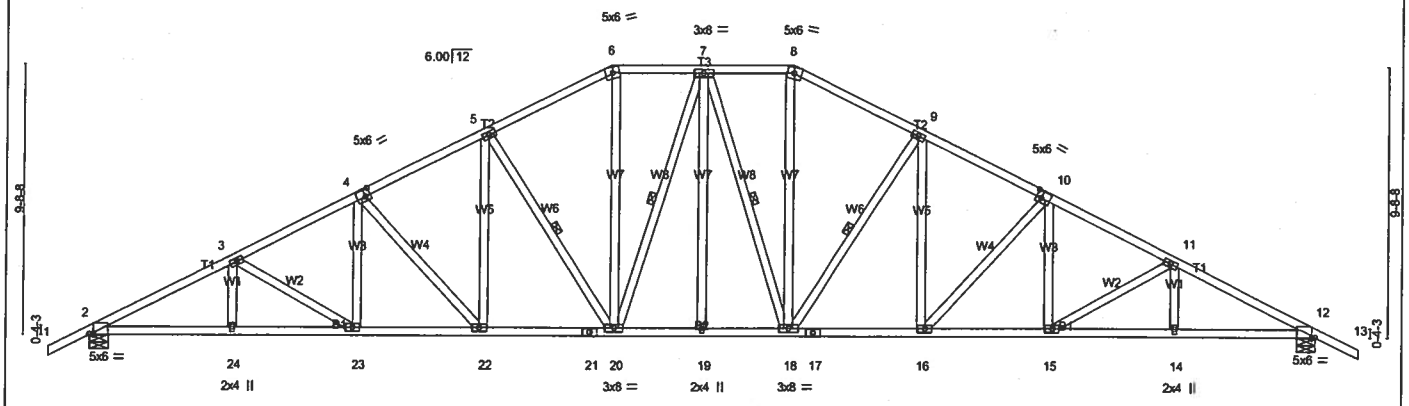
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T09	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:40:19 2006 Page 1

1-6-0 | 5-1-1 | 9-7-9 | 14-2-2 | 18-8-11 | 22-0-0 | 25-3-5 | 29-9-14 | 34-4-7 | 38-10-15 | 44-0-0 | 45-6-0

1-6-0 | 5-1-1 | 4-6-9 | 4-6-9 | 4-6-9 | 3-3-5 | 3-3-5 | 4-6-9 | 4-6-9 | 4-6-9 | 5-1-1 | 1-6-0

Scale = 1:78.7
Camber = 3/16 in



5-1-1 | 9-7-9 | 14-2-2 | 18-8-11 | 22-0-0 | 25-3-5 | 29-9-14 | 34-4-7 | 38-10-15 | 44-0-0

5-1-1 | 4-6-9 | 4-6-9 | 4-6-9 | 3-3-5 | 3-3-5 | 4-6-9 | 4-6-9 | 4-6-9 | 5-1-1

Plate Offsets (X,Y): [2:0-1-10,Edge], [4:0-2-4,0-3-0], [10:0-2-4,0-3-0], [12:0-1-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.27	20-22	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.43	20-22	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.19	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 311 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except 2-0-0 oc purlins (4-3-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-6-1 oc bracing.
WEBS 1 Row at midpt 5-20, 7-20, 7-18, 9-18

REACTIONS (lb/size) 2=1919/0-8-0, 12=1919/0-8-0
Max Horz 2=160(load case 5)
Max Uplift2=-677(load case 5), 12=-677(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3453/1029, 3-4=-3123/979, 4-5=-2750/896, 5-6=-2340/801, 6-7=-2056/762, 7-8=-2056/762, 8-9=-2340/801, 9-10=-2750/896, 10-11=-3123/979, 11-12=-3453/1030, 12-13=0/36
BOT CHORD 2-24=-947/2980, 23-24=-947/2980, 22-23=-810/2746, 21-22=-632/2410, 20-21=-632/2410, 19-20=-422/2084, 18-19=-422/2084, 17-18=-505/2410, 16-17=-505/2410, 15-16=-651/2746, 14-15=-788/2980, 12-14=-788/2980
WEBS 3-24=0/137, 3-23=-286/157, 4-23=-56/283, 4-22=-496/261, 5-22=-160/500, 5-20=-672/352, 6-20=-229/774, 7-20=-272/132, 7-19=0/64, 7-18=-272/132, 8-18=-228/774, 9-18=-672/352, 9-16=-160/500, 10-16=-496/261, 10-15=-56/283, 11-15=-286/158, 11-14=0/137

JOINT STRESS INDEX
2 = 0.86, 3 = 0.41, 4 = 0.50, 5 = 0.44, 6 = 0.43, 7 = 0.67, 8 = 0.43, 9 = 0.44, 10 = 0.50, 11 = 0.41, 12 = 0.86, 14 = 0.34, 15 = 0.35, 16 = 0.38, 17 = 0.79, 18 = 0.67, 19 = 0.34, 20 = 0.67, 21 = 0.79, 22 = 0.38, 23 = 0.35 and 24 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 677 lb uplift at joint 2 and 677 lb uplift at joint 12.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

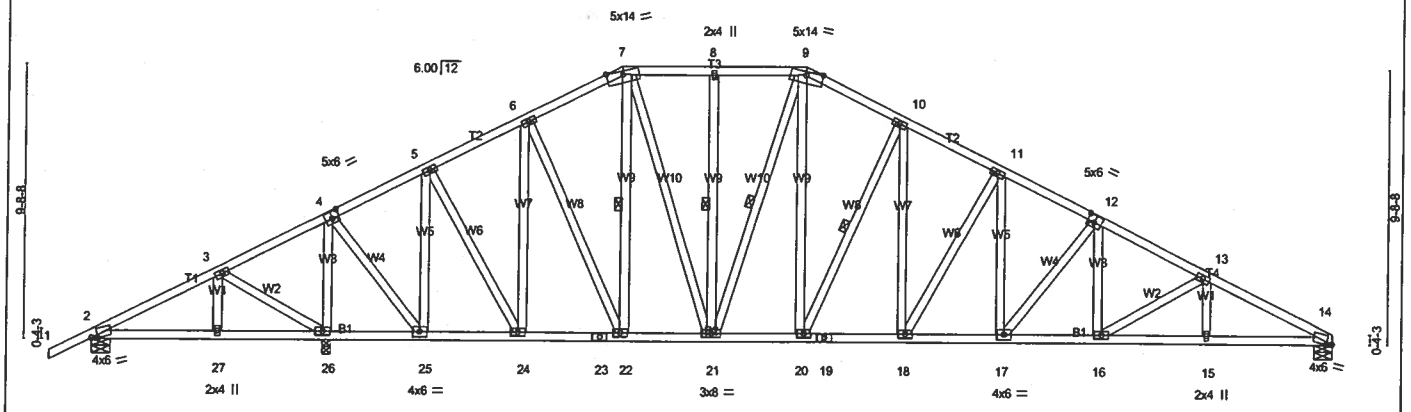
Dwg.#1108061075

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T10	HIP	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:31:40 2006 Page 1

1-6-0	4-5-5	8-4-2	11-9-10	15-3-3	18-8-11	22-0-0	25-3-5	28-8-13	32-2-6	35-7-14	39-6-11	44-0-0
1-6-0	4-5-5	3-10-13	3-5-8	3-5-8	3-5-8	3-3-5	3-3-5	3-5-8	3-5-8	3-5-8	3-10-13	4-5-5

Scale = 1:77.8
Camber = 1/16 in



4-5-5	8-4-2	11-9-10	15-3-3	18-8-11	22-0-0	25-3-5	28-8-13	32-2-6	35-7-14	39-6-11	44-0-0
4-5-5	3-10-13	3-5-8	3-5-8	3-5-8	3-3-5	3-3-5	3-5-8	3-5-8	3-5-8	3-10-13	4-5-5

Plate Offsets (X,Y): [2:0-2-9,0-0-11], [4:0-3-0,0-3-0], [12:0-3-0,0-3-0], [14:0-2-9,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.15	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.24	17-18	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	-0.08	26	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 337 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins, except 2-0-0 oc purlins (5-10-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-22, 8-21, 9-21, 10-20

REACTIONS (lb/size) 2=136/0-8-0, 26=2190/0-3-8, 14=1413/0-8-0
Max Horz 14=178(load case 5)
Max Uplift2=-248(load case 5), 26=-751(load case 5), 14=-459(load case 6)
Max Grav 2=211(load case 9), 26=2190(load case 1), 14=1413(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-46/362, 3-4=-198/674, 4-5=-505/229, 5-6=-963/386, 6-7=-1140/458, 7-8=-1163/492, 8-9=-1163/492, 9-10=-1440/571, 10-11=-1762/649, 11-12=-2064/722, 12-13=-2358/784, 13-14=-2651/851
BOT CHORD 2-27=-302/85, 26-27=-302/85, 25-26=-526/299, 24-25=0/412, 23-24=-68/825, 22-23=-68/825, 21-22=-111/979, 20-21=-228/1262, 19-20=-375/1539, 18-19=-375/1539, 17-18=-518/1809, 16-17=-656/2060, 15-16=-803/2290, 14-15=-803/2290
WEBS 3-27=-134/122, 3-26=-379/296, 4-26=-1872/569, 4-25=-394/1507, 5-25=-1091/339, 5-24=-211/821, 6-24=-601/202, 6-22=-115/433, 7-22=-287/123, 7-21=-216/623, 8-21=-166/124, 9-21=-353/172, 9-20=-302/715, 10-20=-678/357, 10-18=-224/573, 11-18=-538/284, 11-17=-153/419, 12-17=-407/221, 12-16=-63/248, 13-16=-266/169, 13-15=0/127

JOINT STRESS INDEX
2 = 0.87, 3 = 0.41, 4 = 0.82, 5 = 0.69, 6 = 0.46, 7 = 0.35, 8 = 0.34, 9 = 0.35, 10 = 0.46, 11 = 0.69, 12 = 0.81, 13 = 0.41, 14 = 0.87, 15 = 0.34, 16 = 0.61, 17 = 0.72, 18 = 0.67, 19 = 0.53, 20 = 0.48, 21 = 0.78, 22 = 0.48, 23 = 0.53, 24 = 0.67, 25 = 0.72, 26 = 0.61 and 27 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 2, 751 lb uplift at joint 26 and 459 lb uplift at joint 14.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061076

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T11	MONO HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:26:09 2006 Page 1

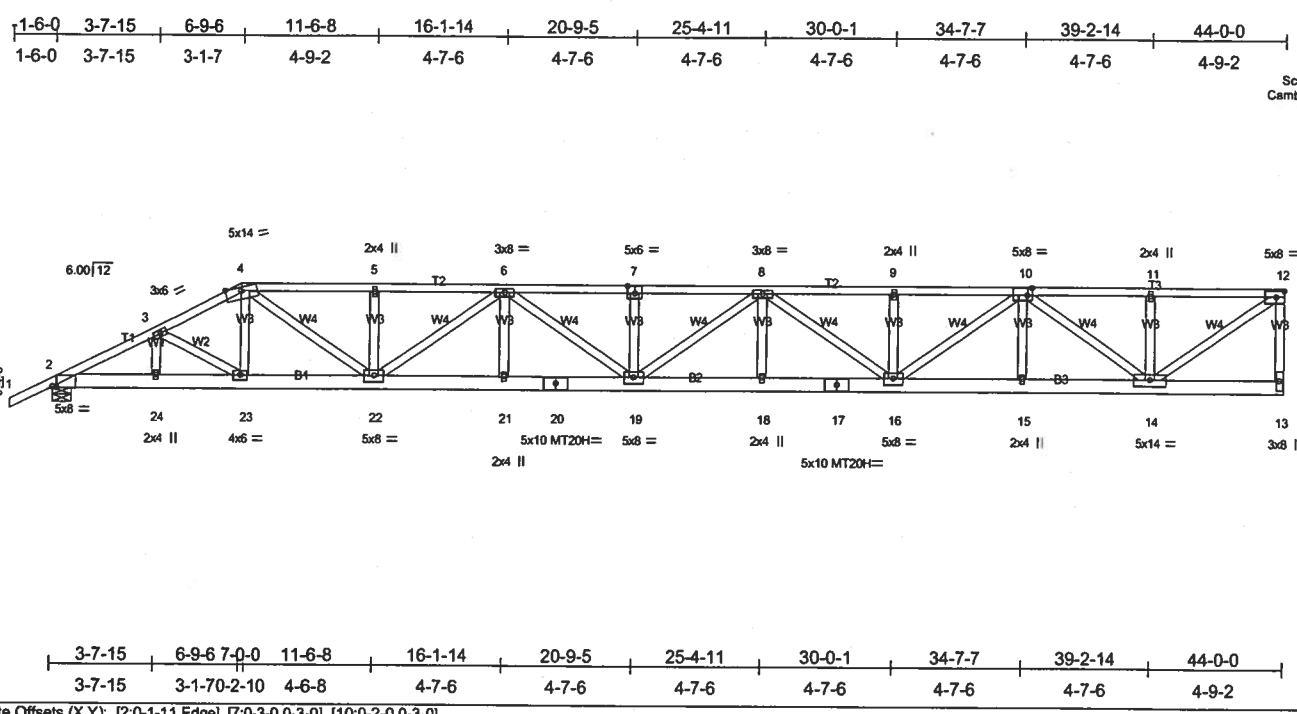


Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-3-0,0-3-0], [10:0-2-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.70	18-19	>750	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-1.11	18-19	>469	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(TL)	0.17	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 563 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-4 oc bracing.

REACTIONS (lb/size) 13=3843/Mechanical, 2=3819/0-8-0
Max Horz 2=207(load case 4)
Max Uplift13=-1724(load case 3), 2=-1580(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-7259/3094, 3-4=-7511/3309, 4-5=-9756/4364, 5-6=-9755/4364, 6-7=-12491/5595, 7-8=-12492/5595, 8-9=-10825/4851, 9-10=-10825/4851, 10-11=-4746/2124, 11-12=-4746/2124, 12-13=-3639/1705
BOT CHORD 2-24=-2784/6344, 23-24=-2784/6344, 22-23=-3006/6745, 21-22=-5269/11763, 20-21=-5269/11763, 19-20=-5269/11763, 18-19=-5514/12297, 17-18=-5514/12297, 16-17=-5514/12297, 15-16=-3773/8408, 14-15=-3773/8408, 13-14=-64/117
WEBS 3-24=-226/156, 3-23=-315/417, 4-23=-266/796, 4-22=-1681/3682, 5-22=-495/425, 6-22=-2484/1134, 6-21=0/391, 6-19=-419/900, 7-19=-491/408, 8-19=-112/241, 8-18=0/385, 8-16=-1822/820, 9-16=-494/409, 10-16=-1334/2990, 10-15=0/369, 10-14=-4531/2040, 11-14=-506/426, 12-14=-2549/5726

JOINT STRESS INDEX
2 = 0.81, 3 = 0.41, 4 = 0.91, 5 = 0.34, 6 = 0.60, 7 = 0.75, 8 = 0.57, 9 = 0.34, 10 = 0.83, 11 = 0.34, 12 = 0.62, 13 = 0.37, 14 = 0.86, 15 = 0.34, 16 = 0.69, 17 = 0.83, 18 = 0.34, 19 = 0.28, 20 = 0.79, 21 = 0.34, 22 = 0.85, 23 = 0.25 and 24 = 0.34

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1724 lb uplift at joint 13 and 1580 lb uplift at joint 2.
9) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-12=-112(F=-58), 2-23=-30, 13-23=-63(F=-33)
Concentrated Loads (lb)
Vert: 23=-539(F)

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061077

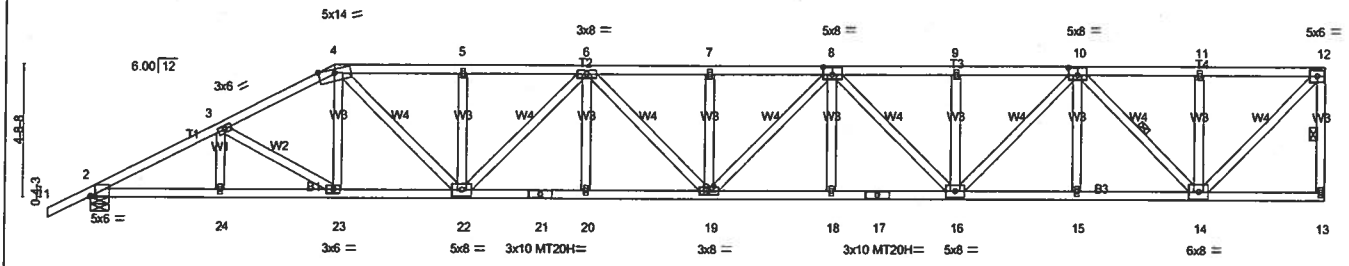
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T12	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:52:25 2006 Page 1

1-6-0 | 4-7-9 | 8-8-10 | 13-2-14 | 17-7-6 | 21-11-13 | 26-4-5 | 30-8-13 | 35-1-5 | 39-5-12 | 44-0-0

1-6-0 | 4-7-9 | 4-1-1 | 4-6-4 | 4-4-8 | 4-4-8 | 4-4-8 | 4-4-8 | 4-4-8 | 4-4-8 | 4-6-4

Scale = 1:78.0
Camber = 5/16 in



4-7-9 | 8-8-10 | 13-2-14 | 17-7-6 | 21-11-13 | 26-4-5 | 30-8-13 | 35-1-5 | 39-5-12 | 44-0-0

4-7-9 | 4-1-1 | 4-6-4 | 4-4-8 | 4-4-8 | 4-4-8 | 4-4-8 | 4-4-8 | 4-4-8 | 4-6-4

Plate Offsets (X,Y): [2:0-2-0,0-0-2], [8:0-4-0,0-3-0], [10:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.51	19-20	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.81	19-20	>646	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.23	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 269 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-5 oc bracing.
WEBS 1 Row at midpt 12-13, 10-14

REACTIONS (lb/size) 13=1826/Mechanical, 2=1929/0-8-0
Max Horz 2=249(load case 5)
Max Uplift13=-681(load case 4), 2=-587(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3466/1077, 3-4=-3199/1092, 4-5=-3767/1367, 5-6=-3767/1368, 6-7=-4517/1666, 7-8=-4517/1666, 8-9=-3812/1415, 9-10=-3812/1415, 10-11=-1652/616, 11-12=-1652/616, 12-13=-1753/686
BOT CHORD 2-24=-1027/2988, 23-24=-1027/2988, 22-23=-1001/2828, 21-22=-1586/4325, 20-21=-1586/4325, 19-20=-1586/4325, 18-19=-1610/4347, 17-18=-1610/4347, 16-17=-1610/4347, 15-16=-1085/2915, 14-15=-1085/2915, 13-14=-11/30
WEBS 3-24=0/108, 3-23=-192/137, 4-23=-48/241, 4-22=-538/1311, 5-22=-226/170, 6-22=-793/331, 6-20=0/131, 6-19=-135/273, 7-19=-234/164, 8-19=-79/242, 8-18=0/130, 8-16=-760/277, 9-16=-234/164, 10-16=-469/1274, 10-15=0/133, 10-14=-1795/667, 11-14=-240/172, 12-14=-859/2305

JOINT STRESS INDEX
2 = 0.87, 3 = 0.41, 4 = 0.74, 5 = 0.34, 6 = 0.57, 7 = 0.34, 8 = 0.57, 9 = 0.34, 10 = 0.76, 11 = 0.34, 12 = 0.78, 13 = 0.83, 14 = 0.85, 15 = 0.34, 16 = 0.61, 17 = 0.94, 18 = 0.34, 19 = 0.57, 20 = 0.34, 21 = 0.94, 22 = 0.63, 23 = 0.35 and 24 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 681 lb uplift at joint 13 and 587 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061078

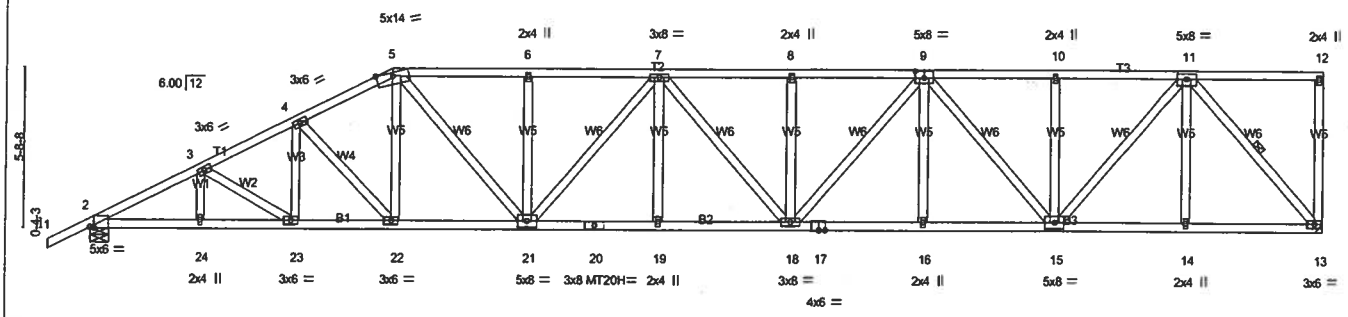
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T13	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:52:39 2006 Page 1

1-6-0 | 3-11-3 | 7-3-15 | 10-8-10 | 15-6-15 | 20-3-8 | 25-0-1 | 29-8-9 | 34-5-2 | 39-1-11 | 44-0-0

1-6-0 | 3-11-3 | 3-4-11 | 3-4-11 | 4-10-5 | 4-8-9 | 4-8-9 | 4-8-9 | 4-8-9 | 4-8-9 | 4-10-5

Scale = 1:78.2
Camber = 1/4 in



3-11-3 | 7-3-15 | 10-8-10 | 15-6-15 | 20-3-8 | 25-0-1 | 29-8-9 | 34-5-2 | 39-1-11 | 44-0-0

3-11-3 | 3-4-11 | 3-4-11 | 4-10-5 | 4-8-9 | 4-8-9 | 4-8-9 | 4-8-9 | 4-8-9 | 4-10-5

Plate Offsets (X,Y): [2:0-1-11,Edge], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.37	18-19	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.59	18-19	>882	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.20	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 287 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-6 oc bracing.
WEBS 1 Row at midpt 11-13

REACTIONS (lb/size) 13=1826/Mechanical, 2=1929/0-8-0
Max Horz 2=296(load case 5)
Max Uplift13=-677(load case 4), 2=-603(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3444/1002, 3-4=-3263/1023, 4-5=-3031/1021, 5-6=-3359/1203, 6-7=-3358/1203, 7-8=-3624/1325, 8-9=-3624/1325, 9-10=-2514/927, 10-11=-2514/927, 11-12=-23/8, 12-13=-119/80
BOT CHORD 2-24=-992/2963, 23-24=-992/2963, 22-23=-982/2891, 21-22=-937/2688, 20-21=-1329/3663, 19-20=-1329/3663, 18-19=-1329/3663, 17-18=-1192/3242, 16-17=-1192/3242, 15-16=-1192/3242, 14-15=-535/1445, 13-14=-535/1445
WEBS 3-24=0/75, 3-23=-84/73, 4-23=-25/151, 4-22=-308/184, 5-22=-108/354, 5-21=-433/1003, 6-21=-253/185, 7-21=-464/222, 7-19=0/140, 7-18=-59/54, 8-18=-252/177, 9-18=-202/583, 9-16=0/140, 9-15=-1109/403, 10-15=-249/173, 11-15=-597/1628, 11-14=0/140, 11-13=-2167/802

JOINT STRESS INDEX
2 = 0.86, 3 = 0.41, 4 = 0.41, 5 = 0.70, 6 = 0.34, 7 = 0.57, 8 = 0.34, 9 = 0.54, 10 = 0.34, 11 = 0.79, 12 = 0.68, 13 = 0.74, 14 = 0.34, 15 = 0.79, 16 = 0.34, 17 = 0.92, 18 = 0.58, 19 = 0.34, 20 = 0.91, 21 = 0.48, 22 = 0.38, 23 = 0.35 and 24 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 677 lb uplift at joint 13 and 603 lb uplift at joint 2.

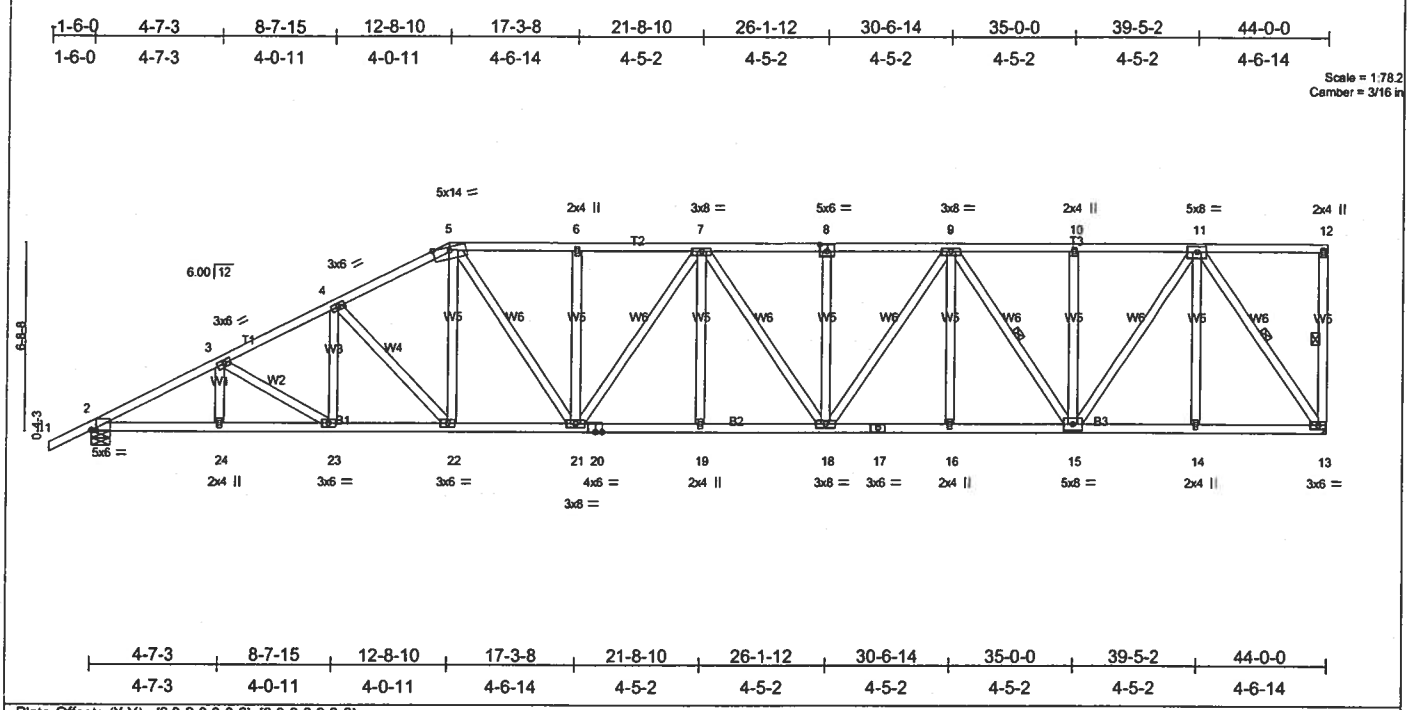
LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061079

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T14	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:52:08 2006 Page 1



4-7-3	8-7-15	12-8-10	17-3-8	21-8-10	26-1-12	30-6-14	35-0-0	39-5-2	44-0-0
4-7-3	4-0-11	4-0-11	4-6-14	4-5-2	4-5-2	4-5-2	4-5-2	4-5-2	4-6-14

Plate Offsets (X,Y): [2:0-2-0,0-0-2], [8:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.30	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.47	19-21	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.18	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 310 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-8 oc bracing.
WEBS 1 Row at midpt 12-13, 9-15, 11-13

REACTIONS (lb/size) 13=1826/Mechanical, 2=1929/0-8-0
Max Horz 2=342(load case 5)
Max Uplift13=-671(load case 4), 2=-618(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3469/953, 3-4=-3203/958, 4-5=-2878/945, 5-6=-2960/1043, 6-7=-2960/1043, 7-8=-3006/1085, 8-9=-3006/1085, 9-10=-2026/740, 10-11=-2026/740, 11-12=-16/6, 12-13=-111/74
BOT CHORD 2-24=-1021/2992, 23-24=-1021/2992, 22-23=-937/2822, 21-22=-870/2541, 20-21=-1113/3111, 19-20=-1113/3111, 18-19=-1113/3111, 17-18=-962/2645, 16-17=-962/2645, 15-16=-962/2645, 14-15=-423/1153, 13-14=-423/1153
WEBS 3-24=0/109, 3-23=-196/125, 4-23=-43/228, 4-22=-419/235, 5-22=-143/435, 5-21=-343/720, 6-21=-233/174, 7-21=-267/161, 7-19=0/131, 7-18=-186/94, 8-18=-236/165, 9-18=-217/636, 9-16=0/131, 9-15=-1090/391, 10-15=-233/162, 11-15=-557/1536, 11-14=0/132, 11-13=-2003/735

JOINT STRESS INDEX
2 = 0.87, 3 = 0.41, 4 = 0.41, 5 = 0.66, 6 = 0.34, 7 = 0.58, 8 = 0.36, 9 = 0.66, 10 = 0.34, 11 = 0.76, 12 = 0.56, 13 = 0.76, 14 = 0.34, 15 = 0.76, 16 = 0.34, 17 = 0.93, 18 = 0.66, 19 = 0.34, 20 = 0.87, 21 = 0.75, 22 = 0.38, 23 = 0.35 and 24 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 671 lb uplift at joint 13 and 618 lb uplift at joint 2.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

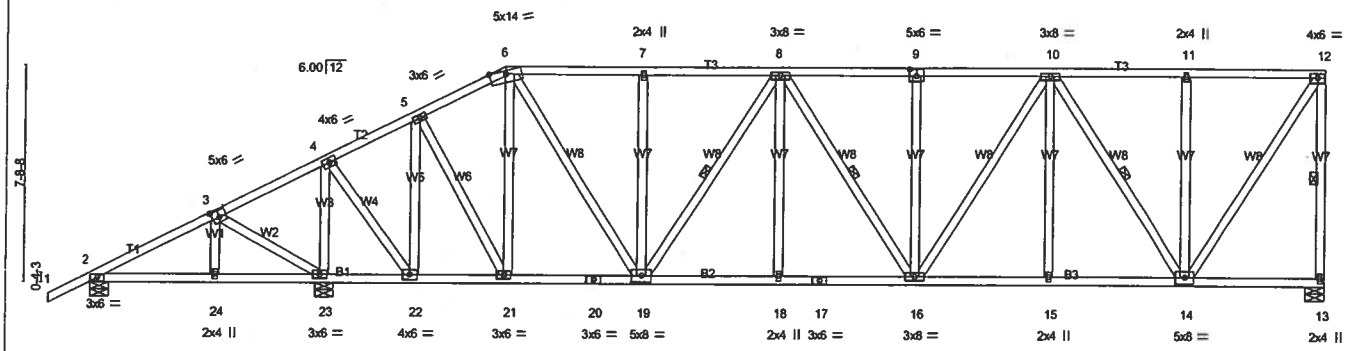
Dwg.#1108061080

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T15	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:53:51 2006 Page 1

1-6-0	4-5-4	8-4-0	11-6-5	14-8-10	19-8-6	24-6-5	29-4-5	34-2-5	39-0-4	44-0-0
1-6-0	4-5-4	3-10-12	3-2-5	3-2-5	4-11-12	4-10-0	4-10-0	4-10-0	4-10-0	4-11-12

Scale = 1:78.2
Camber = 1/16 in



4-5-4	8-4-0	11-6-5	14-8-10	19-8-6	24-6-5	29-4-5	34-2-5	39-0-4	44-0-0
4-5-4	3-10-12	3-2-5	3-2-5	4-11-12	4-10-0	4-10-0	4-10-0	4-10-0	4-11-12

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	-0.12	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.19	16-18	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.05	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 326 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-13, 8-19, 8-16, 10-14

REACTIONS (lb/size) 13=1428/0-8-0, 2=164/0-8-0, 23=2162/0-8-0
Max Horz 2=388(load case 5)
Max Uplift13=-538(load case 4), 2=-164(load case 5), 23=-794(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-168/269, 3-4=-322/609, 4-5=-492/99, 5-6=-967/321, 6-7=-1370/512, 7-8=-1370/512, 8-9=-1623/609, 9-10=-1623/609, 10-11=-820/308, 11-12=-820/308, 12-13=-1356/545
BOT CHORD 2-24=-187/42, 23-24=-191/45, 22-23=-505/152, 21-22=-157/399, 20-21=-304/825, 19-20=-304/825, 18-19=-611/1628, 17-18=-611/1628, 16-17=-611/1628, 15-16=-509/1353, 14-15=-509/1353, 13-14=-6/15
WEBS 3-24=-133/116, 3-23=-367/294, 4-23=-1844/644, 4-22=-497/1495, 5-22=-1121/426, 5-21=-326/878, 6-21=-628/304, 6-19=-386/977, 7-19=-268/192, 8-19=-473/192, 8-18=0/144, 8-16=-9/23, 9-16=-259/182, 10-16=-183/493, 10-15=0/145, 10-14=-976/368, 11-14=-273/194, 12-14=-554/1475

JOINT STRESS INDEX
2 = 0.40, 3 = 0.34, 4 = 0.84, 5 = 0.74, 6 = 0.45, 7 = 0.34, 8 = 0.59, 9 = 0.29, 10 = 0.59, 11 = 0.34, 12 = 0.78, 13 = 0.67, 14 = 0.74, 15 = 0.34, 16 = 0.59, 17 = 0.58, 18 = 0.34, 19 = 0.49, 20 = 0.33, 21 = 0.72, 22 = 0.75, 23 = 0.60 and 24 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 538 lb uplift at joint 13, 164 lb uplift at joint 2 and 794 lb uplift at joint 23.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061081

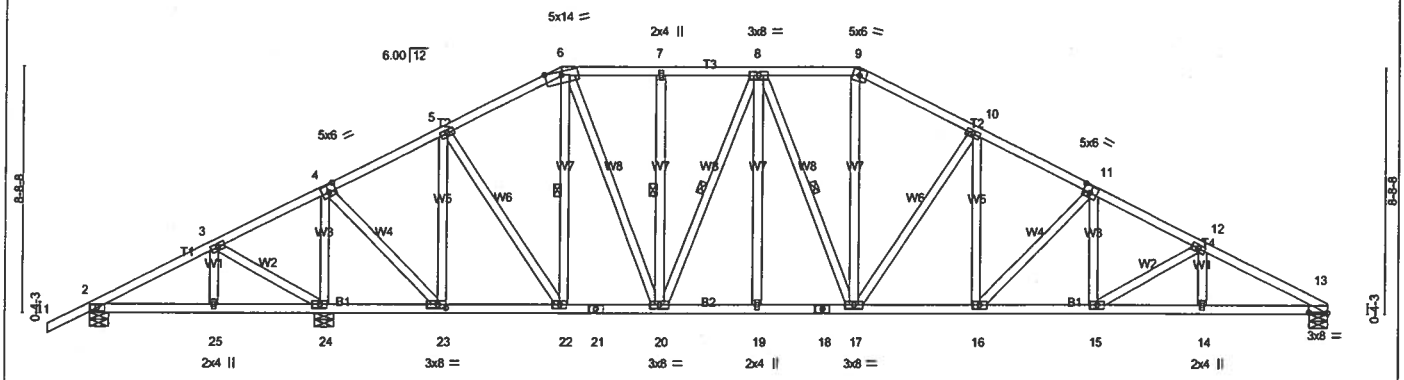
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T16	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:57:33 2006 Page 1

1-6-0 | 4-5-4 | 8-4-0 | 12-6-5 | 16-8-10 | 20-3-7 | 23-8-9 | 27-3-6 | 31-5-11 | 35-8-0 | 39-6-12 | 44-0-0

1-6-0 | 4-5-4 | 3-10-12 | 4-2-5 | 4-2-5 | 3-6-13 | 3-5-1 | 3-6-13 | 4-2-5 | 4-2-5 | 3-10-12 | 4-5-4

Scale = 1:77.9
Camber = 1/16 in



4-5-4 | 8-4-0 | 12-6-5 | 16-8-10 | 20-3-7 | 23-8-9 | 27-3-6 | 31-5-11 | 35-8-0 | 39-6-12 | 44-0-0

4-5-4 | 3-10-12 | 4-2-5 | 4-2-5 | 3-6-13 | 3-5-1 | 3-6-13 | 4-2-5 | 4-2-5 | 3-10-12 | 4-5-4

Plate Offsets (X,Y): [4:0-3-0,0-3-0], [11:0-3-0,0-3-0], [13:0-8-0,0-0-6], [23:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.14	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.22	16-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.07	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 313 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-22, 7-20, 8-20, 8-17

REACTIONS (lb/size) 2=97/0-8-0, 24=2237/0-8-0, 13=1405/0-8-0
Max Horz 2=164(load case 5)
Max Uplift2=-202(load case 5), 24=-790(load case 5), 13=-454(load case 6)
Max Grav 2=172(load case 9), 24=2237(load case 1), 13=1405(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-55/454, 3-4=-231/754, 4-5=-606/229, 5-6=-1056/397, 6-7=-1183/468, 7-8=-1183/468, 8-9=-1410/576, 9-10=-1618/598, 10-11=-2000/691, 11-12=-2344/775, 12-13=-2632/841
BOT CHORD 2-25=-382/142, 24-25=-382/142, 23-24=-595/338, 22-23=-94/497, 21-22=-164/891, 20-21=-164/891, 19-20=-236/1352, 18-19=-236/1352, 17-18=-236/1352, 16-17=-369/1745, 15-16=-535/2050, 14-15=-680/2273, 13-14=-680/2273
WEBS 3-25=-136/121, 3-24=-378/297, 4-24=-1913/611, 4-23=-398/1569, 5-23=-1007/327, 5-22=-179/716, 6-22=-464/166, 6-20=-247/794, 7-20=-193/134, 8-20=-479/172, 8-19=0/97, 8-17=-117/189, 9-17=-135/478, 10-17=-606/323, 10-16=-144/444, 11-16=-440/238, 11-15=-60/252, 12-15=-256/166, 12-14=0/124

JOINT STRESS INDEX
2 = 0.41, 3 = 0.41, 4 = 0.80, 5 = 0.59, 6 = 0.43, 7 = 0.34, 8 = 0.65, 9 = 0.32, 10 = 0.44, 11 = 0.29, 12 = 0.41, 13 = 0.80, 14 = 0.34, 15 = 0.35, 16 = 0.37, 17 = 0.65, 18 = 0.45, 19 = 0.34, 20 = 0.96, 21 = 0.30, 22 = 0.55, 23 = 0.93, 24 = 0.62 and 25 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2, 790 lb uplift at joint 24 and 454 lb uplift at joint 13.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061082

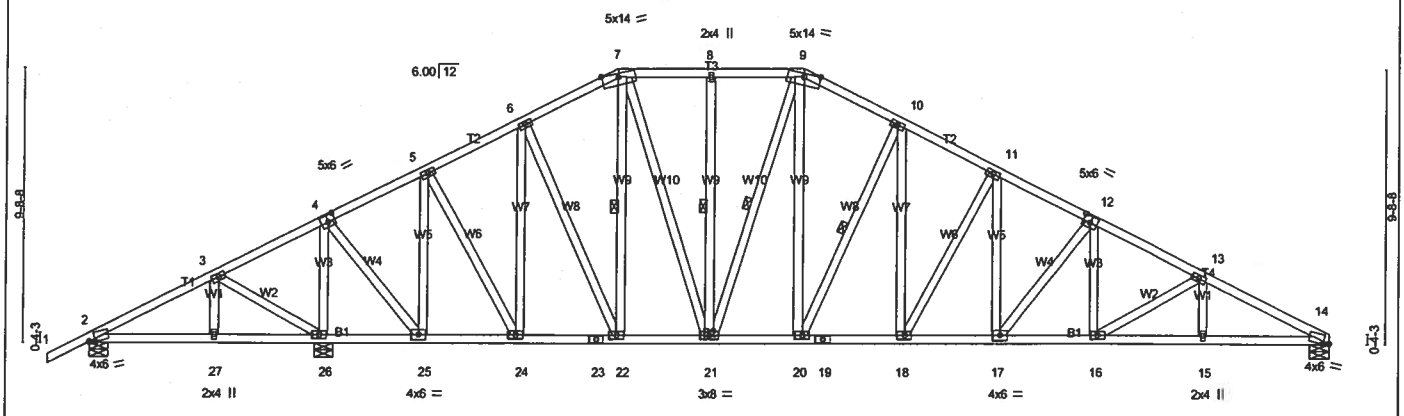
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T17	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:57:23 2006 Page 1

1-6-0 | 4-5-4 | 8-4-0 | 11-9-9 | 15-3-1 | 18-8-10 | 22-0-0 | 25-3-6 | 28-8-15 | 32-2-7 | 35-8-0 | 39-6-12 | 44-0-0

1-6-0 | 4-5-4 | 3-10-12 | 3-5-9 | 3-5-9 | 3-5-9 | 3-3-6 | 3-3-6 | 3-5-9 | 3-5-9 | 3-5-9 | 3-10-12 | 4-5-4

Scale = 1:77.8
Camber = 1/16 in



4-5-4 | 8-4-0 | 11-9-9 | 15-3-1 | 18-8-10 | 22-0-0 | 25-3-6 | 28-8-15 | 32-2-7 | 35-8-0 | 39-6-12 | 44-0-0

4-5-4 | 3-10-12 | 3-5-9 | 3-5-9 | 3-5-9 | 3-3-6 | 3-3-6 | 3-5-9 | 3-5-9 | 3-5-9 | 3-10-12 | 4-5-4

Plate Offsets (X,Y): [2:0-2-9,0-0-11], [4:0-3-0,0-3-0], [12:0-3-0,0-3-0], [14:0-2-9,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.15	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.24	17-18	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.07	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 337 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-22, 8-21, 9-21, 10-20

REACTIONS (lb/size) 2=135/0-8-0, 26=2191/0-8-0, 14=1413/0-8-0
Max Horz 2=178(load case 5)
Max Uplift2=-199(load case 5), 26=-811(load case 5), 14=-466(load case 6)
Max Grav 2=210(load case 9), 26=2191(load case 1), 14=1413(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-60/363, 3-4=-237/676, 4-5=-506/210, 5-6=-965/376, 6-7=-1142/469, 7-8=-1165/508, 8-9=-1165/508, 9-10=-1441/587, 10-11=-1764/665, 11-12=-2066/738, 12-13=-2360/800, 13-14=-2652/867
BOT CHORD 2-27=-303/142, 26-27=-303/142, 25-26=-527/339, 24-25=-61/413, 23-24=-118/826, 22-23=-118/826, 21-22=-124/980, 20-21=-160/1264, 19-20=-276/1540, 18-19=-276/1540, 17-18=-419/1811, 16-17=-556/2062, 15-16=-703/2291, 14-15=-703/2291
WEBS 3-27=-134/122, 3-26=-378/297, 4-26=-1873/626, 4-25=-397/1508, 5-25=-1090/344, 5-24=-190/821, 6-24=-601/182, 6-22=-97/432, 7-22=-286/107, 7-21=-209/623, 8-21=-167/125, 9-21=-353/164, 9-20=-301/715, 10-20=-677/356, 10-18=-223/573, 11-18=-538/284, 11-17=-152/418, 12-17=-406/221, 12-16=-62/247, 13-16=-265/168, 13-15=0/127

JOINT STRESS INDEX
2 = 0.87, 3 = 0.41, 4 = 0.82, 5 = 0.69, 6 = 0.46, 7 = 0.35, 8 = 0.34, 9 = 0.35, 10 = 0.46, 11 = 0.69, 12 = 0.82, 13 = 0.41, 14 = 0.87, 15 = 0.34, 16 = 0.61, 17 = 0.72, 18 = 0.67, 19 = 0.53, 20 = 0.47, 21 = 0.78, 22 = 0.47, 23 = 0.53, 24 = 0.67, 25 = 0.72, 26 = 0.61 and 27 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2, 811 lb uplift at joint 26 and 466 lb uplift at joint 14.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061083

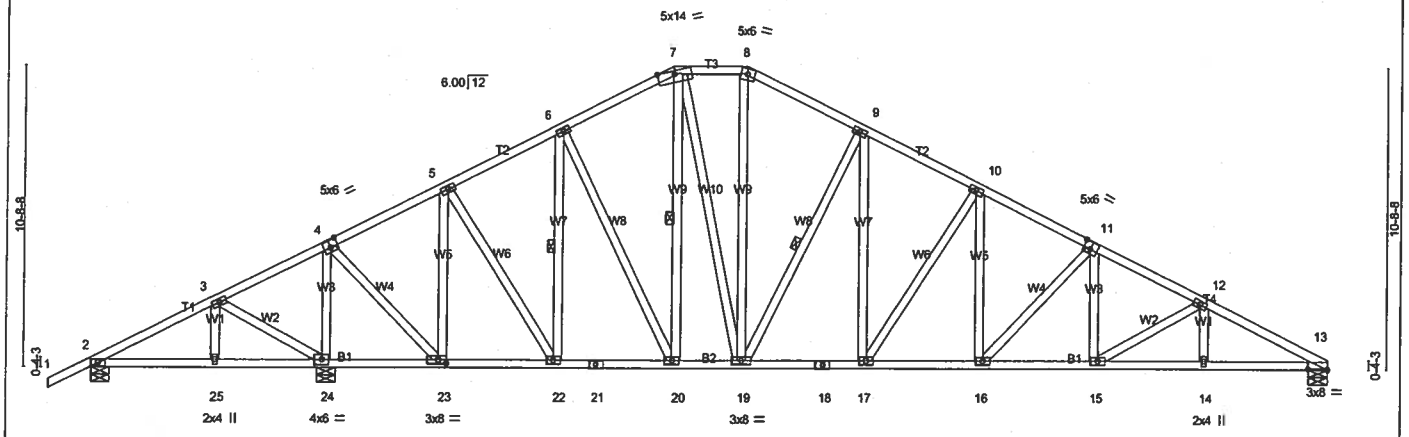
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T18	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:57:14 2006 Page 1

1-6-0 | 4-5-4 | 8-4-0 | 12-5-9 | 16-7-1 | 20-8-10 | 23-3-6 | 27-4-15 | 31-6-7 | 35-8-0 | 39-6-12 | 44-0-0

1-6-0 | 4-5-4 | 3-10-12 | 4-1-9 | 4-1-9 | 4-1-9 | 2-6-12 | 4-1-9 | 4-1-9 | 4-1-9 | 3-10-12 | 4-5-4

Scale = 1:77.9
Camber = 1/16 in



4-5-4 | 8-4-0 | 12-5-9 | 16-7-1 | 20-8-10 | 23-3-6 | 27-4-15 | 31-6-7 | 35-8-0 | 39-6-12 | 44-0-0

4-5-4 | 3-10-12 | 4-1-9 | 4-1-9 | 4-1-9 | 2-6-12 | 4-1-9 | 4-1-9 | 4-1-9 | 3-10-12 | 4-5-4

Plate Offsets (X,Y): [4:0-3-0,0-3-0], [11:0-3-0,0-3-0], [13:0-8-0,0-0-6], [23:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	-0.14	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.23	16-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.07	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 323 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-22, 7-20, 9-19

REACTIONS (lb/size) 2=107/0-8-0, 24=2225/0-8-0, 13=1407/0-8-0
Max Horz 2=192(load case 5)
Max Uplift2=-182(load case 5), 24=-846(load case 5), 13=-474(load case 6)
Max Grav 2=194(load case 9), 24=2225(load case 1), 13=1407(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-94/397, 3-4=-271/733, 4-5=-606/253, 5-6=-1046/430, 6-7=-1158/520, 7-8=-1083/536, 8-9=-1258/555, 9-10=-1644/648, 10-11=-2009/735, 11-12=-2349/816, 12-13=-2637/881
BOT CHORD 2-25=-332/168, 24-25=-332/168, 23-24=-576/364, 22-23=-70/497, 21-22=-143/892, 20-21=-143/892, 19-20=-112/986, 18-19=-237/1427, 17-18=-237/1427, 16-17=-409/1753, 15-16=-572/2054, 14-15=-715/2277, 13-14=-715/2277
WEBS 3-25=-136/121, 3-24=-377/297, 4-24=-1901/666, 4-23=-430/1555, 5-23=-1012/345, 5-22=-169/719, 6-22=-469/167, 6-20=-49/302, 7-20=-167/60, 7-19=-207/514, 8-19=-142/360, 9-19=-768/400, 9-17=-234/628, 10-17=-595/313, 10-16=-147/441, 11-16=-440/237, 11-15=-58/255, 12-15=-262/164, 12-14=0/125

JOINT STRESS INDEX
2 = 0.41, 3 = 0.41, 4 = 0.80, 5 = 0.60, 6 = 0.45, 7 = 0.31, 8 = 0.24, 9 = 0.47, 10 = 0.44, 11 = 0.29, 12 = 0.41, 13 = 0.80, 14 = 0.34, 15 = 0.35, 16 = 0.37, 17 = 0.43, 18 = 0.52, 19 = 0.70, 20 = 0.46, 21 = 0.33, 22 = 0.56, 23 = 0.93, 24 = 0.44 and 25 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2, 846 lb uplift at joint 24 and 474 lb uplift at joint 13.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061084

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T19	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:59:05 2006 Page 1

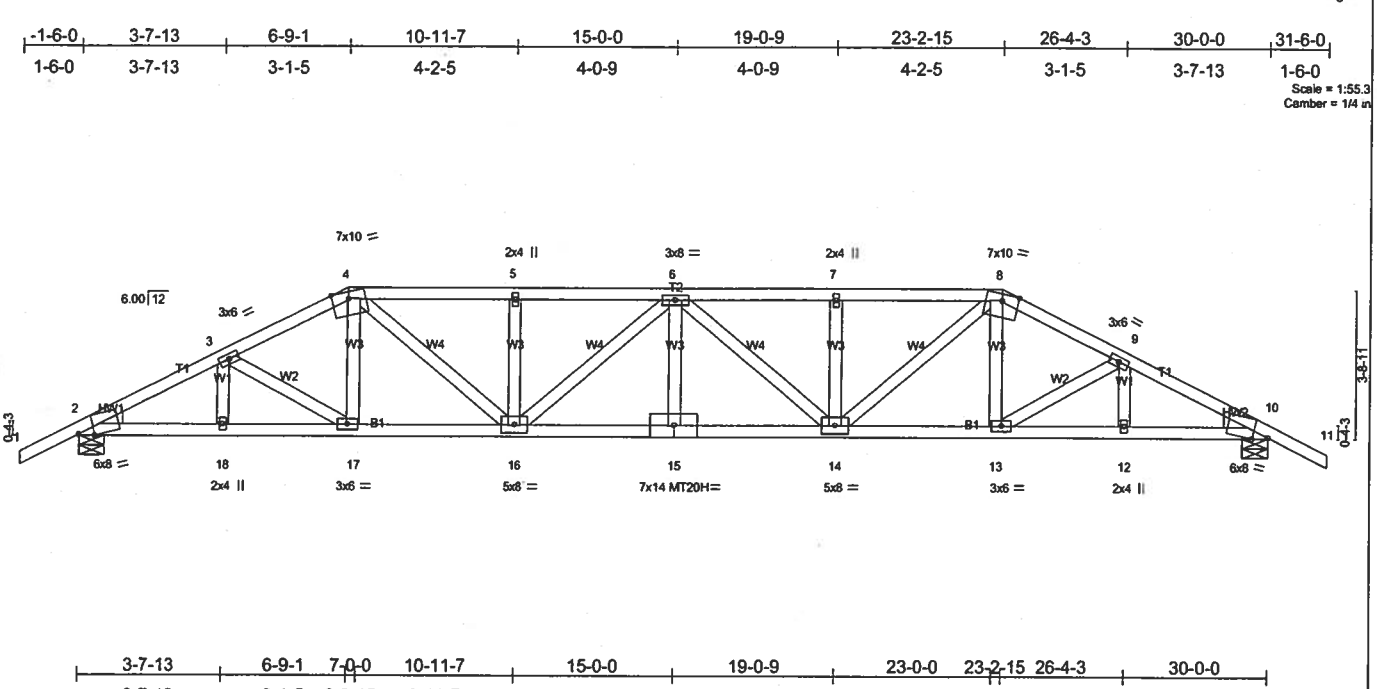


Plate Offsets (X,Y): [2:0-4-13,Edge], [10:0-4-13,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.41	15	>862	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.65	15-16	>538	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.55	Horz(TL)	0.20	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 166 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-2-12 oc bracing.

REACTIONS (lb/size) 2=2616/0-8-0, 10=2616/0-8-0
Max Horz 2=-76(load case 5)
Max Uplift2=-1107(load case 4), 10=-1107(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-4784/1956, 3-4=-4755/2048, 4-5=-5568/2440, 5-6=-5568/2441, 6-7=-5568/2441, 7-8=-5568/2440, 8-9=-4755/2048, 9-10=-4784/1956, 10-11=0/36
BOT CHORD 2-18=-1694/4120, 17-18=-1694/4120, 16-17=-1800/4273, 15-16=-2541/5985, 14-15=-2541/5985, 13-14=-1758/4273, 12-13=-1652/4120, 10-12=-1652/4120
WEBS 3-18=0/56, 3-17=-190/248, 4-17=-238/692, 4-16=-781/1721, 5-16=-460/383, 6-16=-585/267, 6-15=0/254, 6-14=-585/266, 7-14=-460/383, 8-14=-781/1721, 8-13=-239/692, 9-13=-190/248, 9-12=0/55

JOINT STRESS INDEX
2 = 0.91, 3 = 0.41, 4 = 0.99, 5 = 0.34, 6 = 0.57, 7 = 0.34, 8 = 0.99, 9 = 0.41, 10 = 0.91, 12 = 0.34, 13 = 0.45, 14 = 0.81, 15 = 0.76, 16 = 0.81, 17 = 0.45 and 18 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1107 lb uplift at joint 2 and 1107 lb uplift at joint 10.
7) Girder carries hip end with 7-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 23-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-8=-112(F=-59), 8-11=-54, 2-17=-30, 13-17=-62(F=-33), 10-13=-30
Concentrated Loads (lb)
Vert: 17=-539(F) 13=-539(F)

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061085

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T20	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 08:59:35 2006 Page 1

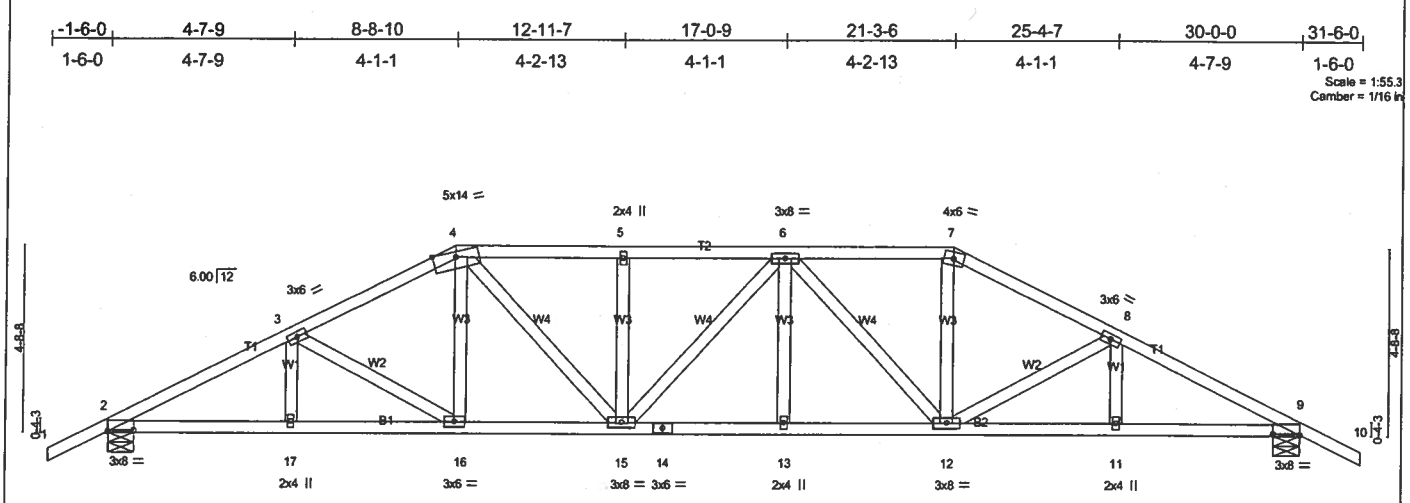


Plate Offsets (X,Y): [2:0-8-0,0-0-6], [9:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.15	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.40	Vert(TL)	-0.23	13-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(TL)	0.09	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 167 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-10 oc bracing.

REACTIONS (lb/size) 2=1331/0-8-0, 9=1331/0-8-0
Max Horz 2=-90(load case 6)
Max Uplift2=-461(load case 5), 9=-461(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-2236/582, 3-4=-1922/564, 4-5=-2009/632, 5-6=-2008/632, 6-7=-1698/539, 7-8=-1923/563, 8-9=-2236/583, 9-10=0/36
BOT CHORD 2-17=-489/1912, 16-17=-489/1912, 15-16=-428/1686, 14-15=-511/2008, 13-14=-511/2008, 12-13=-511/2008, 11-12=-426/1911, 9-11=-426/1911
WEBS 3-17=0/124, 3-16=-274/154, 4-16=-56/267, 4-15=-217/542, 5-15=-228/160, 6-15=-58/60, 6-13=0/118, 6-12=-532/215, 7-12=-119/601, 8-12=-272/155, 8-11=0/124

JOINT STRESS INDEX
2 = 0.70, 3 = 0.41, 4 = 0.41, 5 = 0.34, 6 = 0.57, 7 = 0.48, 8 = 0.41, 9 = 0.70, 11 = 0.34, 12 = 0.57, 13 = 0.34, 14 = 0.69, 15 = 0.57, 16 = 0.35 and 17 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 2 and 461 lb uplift at joint 9.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061086

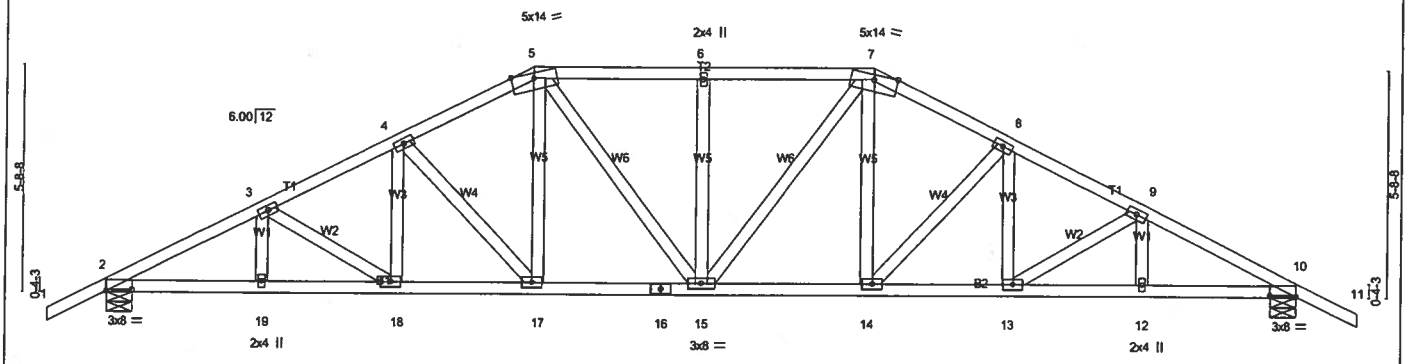
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T21	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:00:03 2006 Page 1

-1-6-0 | 3-11-3 | 7-3-15 | 10-8-10 | 15-0-0 | 19-3-6 | 22-8-1 | 26-0-13 | 30-0-0 | 31-6-0

1-6-0 | 3-11-3 | 3-4-11 | 3-4-11 | 4-3-6 | 4-3-6 | 3-4-11 | 3-4-11 | 3-11-3 | 1-6-0

Scale = 1:55.3
Camber = 1/16 in



3-11-3 | 7-3-15 | 10-8-10 | 15-0-0 | 19-3-6 | 22-8-1 | 26-0-13 | 30-0-0

3-11-3 | 3-4-11 | 3-4-11 | 4-3-6 | 4-3-6 | 3-4-11 | 3-4-11 | 3-11-3

Plate Offsets (X,Y): [2:0-8-0,0-0-6], [10:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.12	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.20	15-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.08	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 181 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-10 oc bracing.

REACTIONS (lb/size) 2=1331/0-8-0, 10=1331/0-8-0
Max Horz 2=-104(load case 6)
Max Uplift2=-478(load case 5), 10=-478(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-2232/610, 3-4=-2013/593, 4-5=-1742/535, 5-6=-1674/547, 6-7=-1674/547, 7-8=-1742/535, 8-9=-2013/594, 9-10=-2232/611, 10-11=0/36
BOT CHORD 2-19=-532/1906, 18-19=-532/1906, 17-18=-453/1765, 16-17=-323/1534, 15-16=-323/1534, 14-15=-274/1534, 13-14=-349/1765, 12-13=-429/1906, 10-12=-429/1906
WEBS 3-19=0/95, 3-18=-173/92, 4-18=-33/197, 4-17=-354/193, 5-17=-116/373, 5-15=-137/323, 6-15=-234/171, 7-15=-137/323, 7-14=-116/373, 8-14=-354/193, 8-13=-33/197, 9-13=-173/93, 9-12=0/95

JOINT STRESS INDEX
2 = 0.70, 3 = 0.41, 4 = 0.41, 5 = 0.38, 6 = 0.34, 7 = 0.38, 8 = 0.41, 9 = 0.41, 10 = 0.70, 12 = 0.34, 13 = 0.35, 14 = 0.38, 15 = 0.58, 16 = 0.52, 17 = 0.38, 18 = 0.35 and 19 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 478 lb uplift at joint 2 and 478 lb uplift at joint 10.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

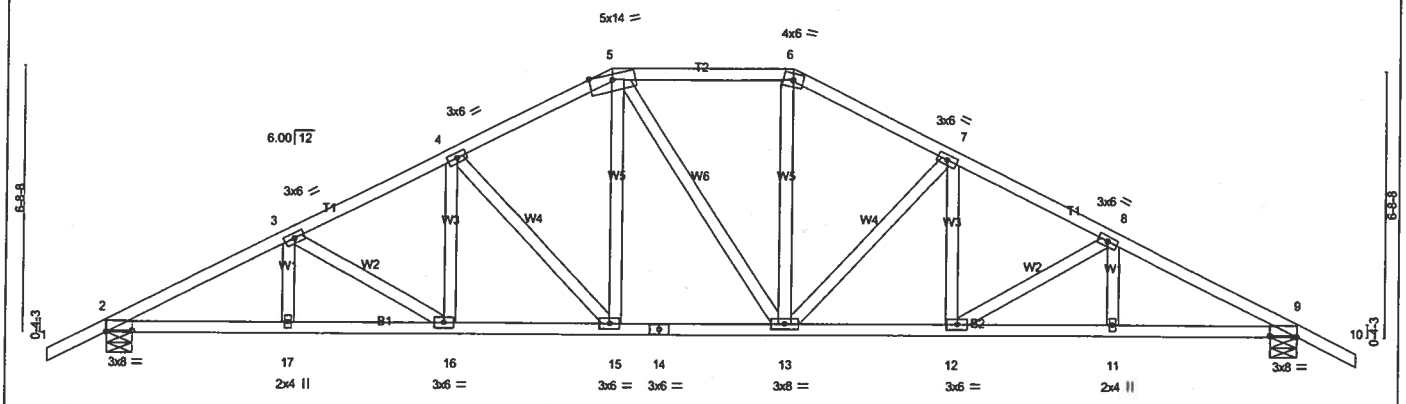
Dwg.#1108061087

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T22	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:00:50 2006 Page 1

-1-6-0	4-7-3	8-7-15	12-8-10	17-3-6	21-4-1	25-4-13	30-0-0	31-6-0
1-6-0	4-7-3	4-0-11	4-0-11	4-6-12	4-0-11	4-0-11	4-7-3	1-6-0

Scale = 1:55.3
Camber = 1/16 in



4-7-3	8-7-15	12-8-10	17-3-6	21-4-1	25-4-13	30-0-0
4-7-3	4-0-11	4-0-11	4-6-12	4-0-11	4-0-11	4-7-3

Plate Offsets (X,Y): [2:0-8-0,0-0-6], [9:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.12	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.19	13-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.08	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 176 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-5 oc bracing.

REACTIONS (lb/size) 2=1331/0-8-0, 9=1331/0-8-0
Max Horz 2=-118(load case 6)
Max Uplift2=-492(load case 5), 9=-492(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-2238/645, 3-4=-1931/602, 4-5=-1583/523, 5-6=-1385/509, 6-7=-1584/524, 7-8=-1931/602, 8-9=-2238/646, 9-10=0/36
BOT CHORD 2-17=-572/1914, 16-17=-572/1914, 15-16=-450/1684, 14-15=-286/1383, 13-14=-286/1383, 12-13=-349/1684, 11-12=-455/1914, 9-11=-455/1914
WEBS 3-17=0/122, 3-16=-277/141, 4-16=-50/266, 4-15=-451/241, 5-15=-147/451, 5-13=-130/135, 6-13=-123/450, 7-13=-449/241, 7-12=-50/265, 8-12=-278/142, 8-11=0/122

JOINT STRESS INDEX
2 = 0.70, 3 = 0.41, 4 = 0.41, 5 = 0.45, 6 = 0.46, 7 = 0.41, 8 = 0.41, 9 = 0.70, 11 = 0.34, 12 = 0.35, 13 = 0.59, 14 = 0.47, 15 = 0.38, 16 = 0.35 and 17 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 2 and 492 lb uplift at joint 9.

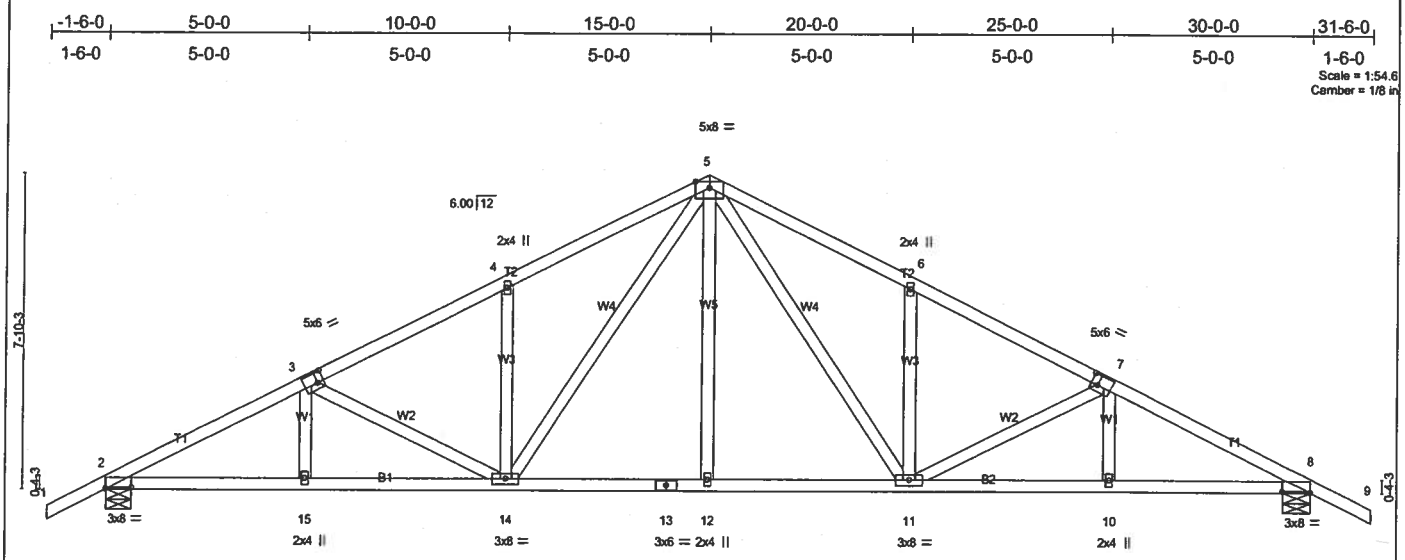
LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061088

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T23	COMMON	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:12:49 2006 Page 1



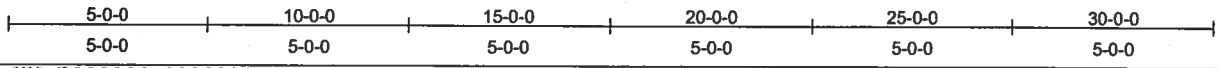


Plate Offsets (X,Y): [2:0-8-0,0-0-6], [3:0-2-0,0-3-0], [7:0-2-0,0-3-0], [8:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.17	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.28	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code	FBC2004/TPI2002	(Matrix)							Weight: 173 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-11 oc bracing.

REACTIONS (lb/size) 2=1435/0-8-0, 8=1477/0-8-0
Max Horz 2=134(load case 5)
Max Uplift2=-545(load case 5), 8=-561(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-2460/760, 3-4=-2064/686, 4-5=-2063/817, 5-6=-2171/858, 6-7=-2173/727, 7-8=-2539/790, 8-9=0/36
BOT CHORD 2-15=-686/2110, 14-15=-686/2110, 13-14=-321/1423, 12-13=-321/1423, 11-12=-321/1423, 10-11=-580/2180, 8-10=-580/2180
WEBS 3-15=0/151, 3-14=-367/188, 4-14=-281/252, 5-14=-359/692, 5-12=-28/298, 5-11=-425/869, 6-11=-280/251, 7-11=-336/177, 7-10=0/124

JOINT STRESS INDEX
2 = 0.79, 3 = 0.56, 4 = 0.34, 5 = 0.57, 6 = 0.34, 7 = 0.56, 8 = 0.79, 10 = 0.34, 11 = 0.91, 12 = 0.34, 13 = 0.59, 14 = 0.91 and 15 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 545 lb uplift at joint 2 and 561 lb uplift at joint 8.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-9=-54, 2-12=-30, 11-12=-80(F=-50), 8-11=-30

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061089

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T24	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:13:33 2006 Page 1

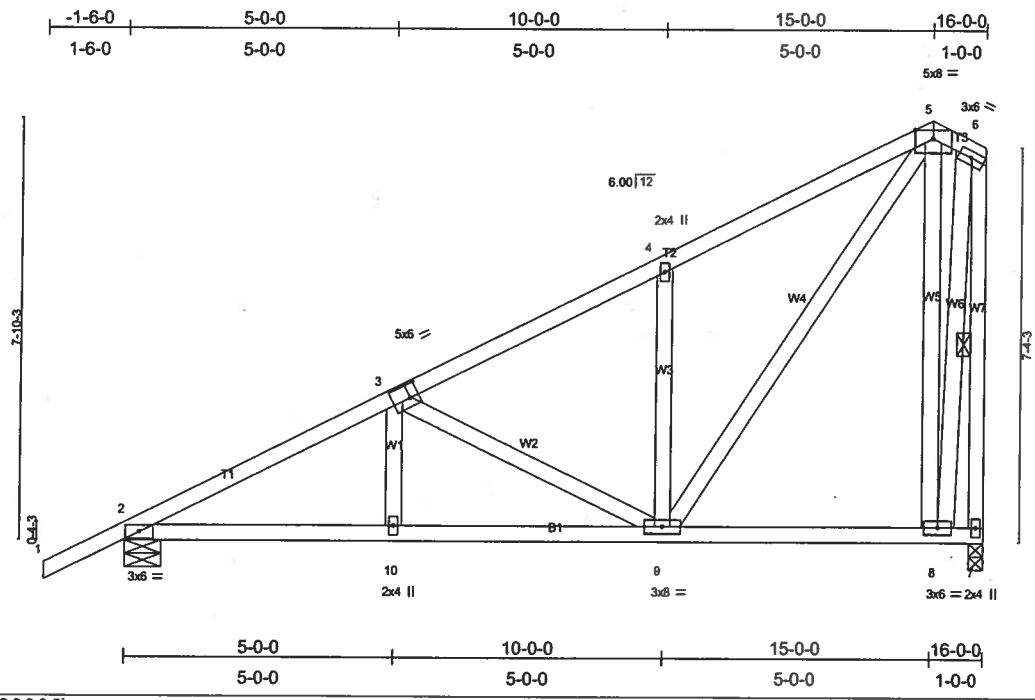


Plate Offsets (X,Y): [3:0-2-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.07	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 116 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.
WEBS 1 Row at midpt 6-7

REACTIONS (lb/size) 2=757/0-8-0, 7=648/0-3-8
Max Horz 2=379(load case 5)
Max Uplift2=-278(load case 5), 7=-306(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-1048/203, 3-4=-620/117, 4-5=-627/252, 5-6=-74/21, 6-7=-588/234
BOT CHORD 2-10=-443/871, 9-10=-443/871, 8-9=-39/79, 7-8=-6/11
WEBS 3-10=0/148, 3-9=-413/209, 4-9=-284/259, 5-9=-394/766, 5-8=-527/353, 6-8=-259/558

JOINT STRESS INDEX
2 = 0.48, 3 = 0.48, 4 = 0.14, 5 = 0.50, 6 = 0.48, 7 = 0.56, 8 = 0.37, 9 = 0.80 and 10 = 0.11

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 2 and 306 lb uplift at joint 7.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061090

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T25	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:14:21 2006 Page 1

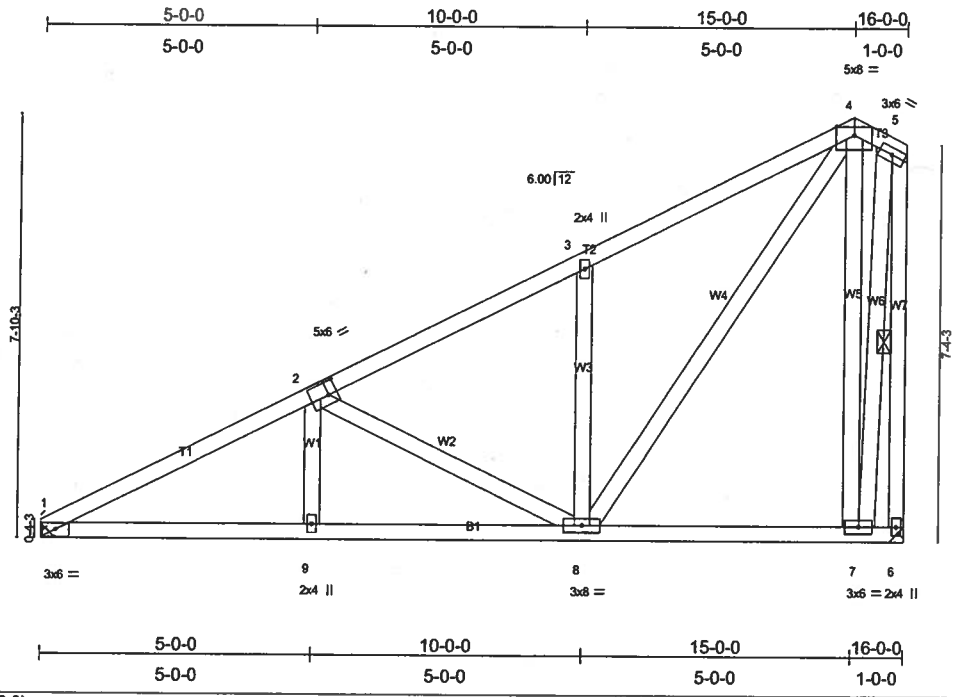


Plate Offsets (X,Y): [2:0-2-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.04	1-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.07	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 113 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing.
WEBS 1 Row at midpt 5-6

REACTIONS (lb/size) 1=660/Mechanical, 6=660/Mechanical
Max Horz 1=334(load case 5)
Max Uplift1=-172(load case 5), 6=-315(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1115/253, 2-3=-638/129, 3-4=-643/261, 4-5=-76/22, 5-6=-600/242
BOT CHORD 1-9=-495/942, 8-9=-495/942, 7-8=-40/81, 6-7=-7/14
WEBS 2-9=0/166, 2-8=-477/257, 3-8=-280/254, 4-8=-408/789, 4-7=-537/362, 5-7=-269/568

JOINT STRESS INDEX
1 = 0.47, 2 = 0.56, 3 = 0.14, 4 = 0.52, 5 = 0.50, 6 = 0.58, 7 = 0.38, 8 = 0.83 and 9 = 0.12

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 1 and 315 lb uplift at joint 6.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061091

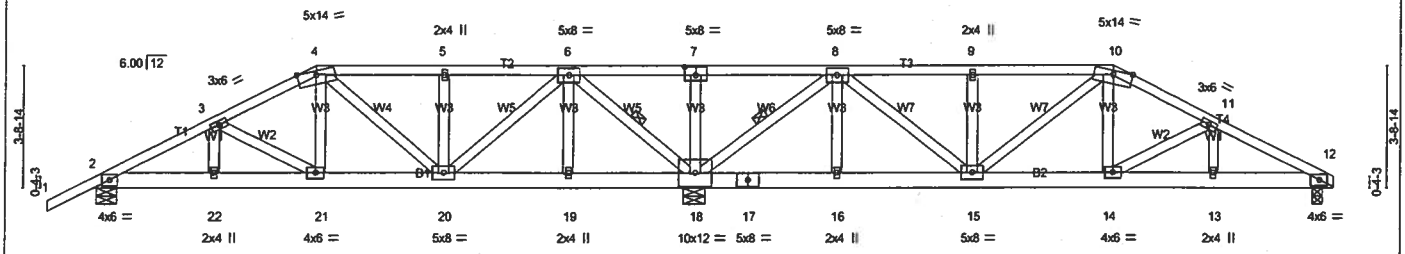
Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T26	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:17:28 2006 Page 1

1-6-0 | 3-7-15 | 6-9-6 | 10-7-12 | 14-6-3 | 18-4-9 | 22-8-8 | 26-10-11 | 31-2-10 | 34-4-1 | 38-0-0

1-6-0 | 3-7-15 | 3-1-7 | 3-10-6 | 3-10-6 | 3-10-6 | 4-3-15 | 4-2-3 | 4-3-15 | 3-1-7 | 3-7-15

Scale = 1:67.4



34-4-1

3-7-15 | 6-9-6 | 7-0-0 | 10-7-12 | 14-6-3 | 18-4-9 | 22-8-8 | 26-10-11 | 31-0-0 | 31-2-10 | 37-6-0 | 38-0-0

3-7-15 | 3-1-7 | 0-2-10 | 3-7-12 | 3-10-6 | 3-10-6 | 4-3-15 | 4-2-3 | 4-1-5 | 0-2-10 | 3-1-15 | 0-6-0

Plate Offsets (X,Y): [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.13	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 239 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-18, 8-18

REACTIONS (lb/size) 2=1170/0-8-0, 18=4329/0-8-0, 12=1213/0-4-0
Max Horz 2=98(load case 4)
Max Uplift2=-749(load case 4), 18=-2165(load case 3), 12=-474(load case 5)
Max Grav 2=1182(load case 8), 18=4329(load case 1), 12=1222(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=-1935/1081, 3-4=-1766/1030, 4-5=-1221/802, 5-6=-1220/803, 6-7=-922/1961, 7-8=-922/1961, 8-9=-1617/690, 9-10=-1617/689, 10-11=-2141/885, 11-12=-2352/916
BOT CHORD 2-22=-958/1661, 21-22=-958/1661, 20-21=-918/1597, 19-20=-100/26, 18-19=-100/26, 17-18=-7/308, 16-17=-7/308, 15-16=-7/308, 14-15=-737/1938, 13-14=-765/2051, 12-13=-765/2051
WEBS 3-22=-47/56, 3-21=-114/118, 4-21=-408/781, 4-20=-517/270, 5-20=-473/385, 6-20=-868/1650, 6-19=-20/148, 6-18=-2517/1417, 7-18=-516/410, 8-18=-2821/1264, 8-16=0/189, 8-15=-761/1694, 9-15=-514/421, 10-15=-421/254, 10-14=-301/836, 11-14=-171/112, 11-13=0/49

JOINT STRESS INDEX
2 = 0.63, 3 = 0.41, 4 = 0.48, 5 = 0.34, 6 = 0.78, 7 = 0.79, 8 = 0.79, 9 = 0.34, 10 = 0.61, 11 = 0.41, 12 = 0.73, 13 = 0.34, 14 = 0.38, 15 = 0.79, 16 = 0.34, 17 = 0.11, 18 = 0.26, 19 = 0.34, 20 = 0.78, 21 = 0.36 and 22 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 749 lb uplift at joint 2, 2165 lb uplift at joint 18 and 474 lb uplift at joint 12.
6) Girder carries hip end with 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 31-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-10=-117(F=-63), 10-12=-54, 2-21=-30, 14-21=-65(F=-35), 12-14=-30
Concentrated Loads (lb)
Vert: 21=-539(F) 14=-539(F)

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

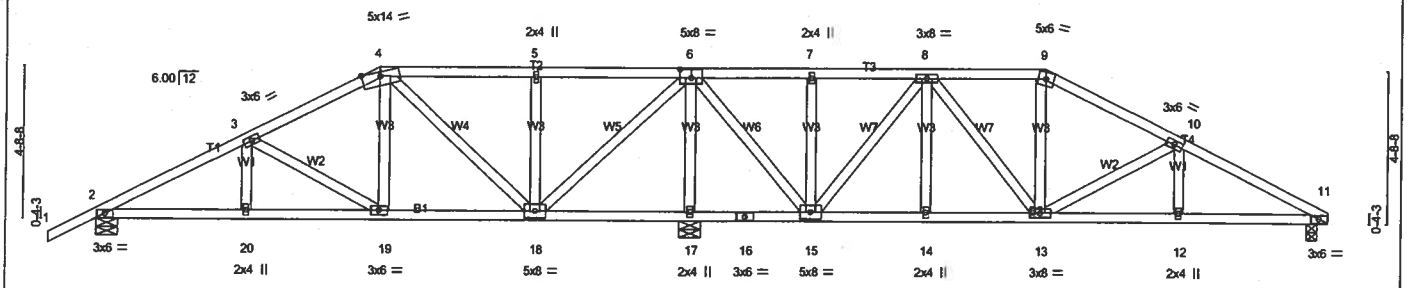
Dwg.#1108061092

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T27	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:25:27 2006 Page 1

1-6-0	4-7-9	8-8-10	13-6-5	18-4-0	22-0-6	25-7-0	29-3-6	33-4-7	38-0-0
1-6-0	4-7-9	4-1-1	4-9-11	4-9-11	3-8-6	3-6-10	3-8-6	4-1-1	4-7-9

Scale = 1:67.7



4-7-9	8-8-10	13-6-5	18-4-0	22-0-6	25-7-0	29-3-6	33-4-7	37-6-0	38-0-0
4-7-9	4-1-1	4-9-11	4-9-11	3-8-6	3-6-10	3-8-6	4-1-1	4-1-9	0-6-0

Plate Offsets (X,Y): [6:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	0.05	19-20	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.06	12-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 217 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 11=654/0-4-0, 2=681/0-8-0, 17=1914/0-8-0
Max Horz 2=108(load case 5)
Max Uplift11=-204(load case 6), 2=-511(load case 5), 17=-853(load case 4)
Max Grav 11=671(load case 10), 2=704(load case 9), 17=1914(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-945/734, 3-4=-590/537, 4-5=-165/313, 5-6=-165/313, 6-7=-42/40, 7-8=-42/40, 8-9=-622/239, 9-10=-744/227, 10-11=-1152/330
BOT CHORD 2-20=-590/780, 19-20=-590/780, 18-19=-362/495, 17-18=-686/402, 16-17=-686/402, 15-16=-686/402, 14-15=-51/453, 13-14=-51/453, 12-13=-234/975, 11-12=-234/975
WEBS 3-20=-137/131, 3-19=-340/282, 4-19=-292/303, 4-18=-481/283, 5-18=-271/189, 6-18=-754/1063, 6-17=-1759/896, 6-15=-326/1034, 7-15=-177/124, 8-15=-684/245, 8-14=0/110, 8-13=-133/291, 9-13=0/102, 10-13=-409/226, 10-12=0/151

JOINT STRESS INDEX
2 = 0.48, 3 = 0.41, 4 = 0.44, 5 = 0.34, 6 = 0.63, 7 = 0.34, 8 = 0.57, 9 = 0.21, 10 = 0.41, 11 = 0.49, 12 = 0.34, 13 = 0.57, 14 = 0.34, 15 = 0.50, 16 = 0.19, 17 = 0.64, 18 = 0.50, 19 = 0.35 and 20 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 11, 511 lb uplift at joint 2 and 853 lb uplift at joint 17.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

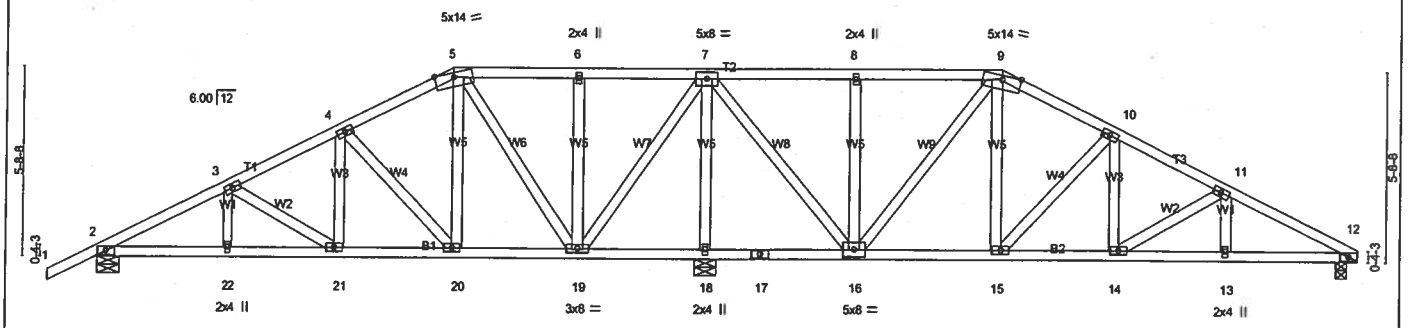
Dwg.#1108061093

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T28	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:24:48 2006 Page 1

1-6-0	3-11-3	7-3-15	10-8-10	14-6-5	18-4-0	22-9-11	27-3-6	30-8-1	34-0-13	38-0-0
1-6-0	3-11-3	3-4-11	3-4-11	3-9-11	3-9-11	4-5-11	4-5-11	3-4-11	3-4-11	3-11-3

Scale = 1:66.2



3-11-3	7-3-15	10-8-10	14-6-5	18-4-0	22-9-11	27-3-6	30-8-1	34-0-13	37-6-0	38-0-0
3-11-3	3-4-11	3-4-11	3-9-11	3-9-11	4-5-11	4-5-11	3-4-11	3-4-11	3-5-3	0-6-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.04	14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.07	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.02	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 12=646/0-4-0, 2=673/0-8-0, 18=1930/0-8-0
Max Horz 2=122(load case 5)
Max Uplift12=-210(load case 6), 2=-512(load case 5), 18=-791(load case 4)
Max Grav 12=673(load case 10), 2=707(load case 9), 18=1930(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-967/725, 3-4=-698/593, 4-5=-399/408, 5-6=-27/194, 6-7=-27/194, 7-8=-138/100, 8-9=-138/99, 9-10=-551/199, 10-11=-865/279, 11-12=-1183/354
BOT CHORD 2-22=-585/802, 21-22=-585/802, 20-21=-423/588, 19-20=-223/332, 18-19=-590/379, 17-18=-590/379, 16-17=-590/379, 15-16=-26/471, 14-15=-111/735, 13-14=-262/1007, 12-13=-262/1007
WEBS 3-22=-100/105, 3-21=-253/197, 4-21=-224/235, 4-20=-388/329, 5-20=-363/395, 5-19=-572/360, 6-19=-201/141, 7-19=-656/917, 7-18=-1779/924, 7-16=-323/1027, 8-16=-249/176, 9-16=-557/220, 9-15=-136/413, 10-15=-399/215, 10-14=-66/259, 11-14=-318/175, 11-13=0/120

JOINT STRESS INDEX
2 = 0.49, 3 = 0.41, 4 = 0.41, 5 = 0.30, 6 = 0.34, 7 = 0.50, 8 = 0.34, 9 = 0.36, 10 = 0.41, 11 = 0.41, 12 = 0.50, 13 = 0.34, 14 = 0.35, 15 = 0.38, 16 = 0.50, 17 = 0.17, 18 = 0.65, 19 = 0.95, 20 = 0.38, 21 = 0.35 and 22 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 12, 512 lb uplift at joint 2 and 791 lb uplift at joint 18.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

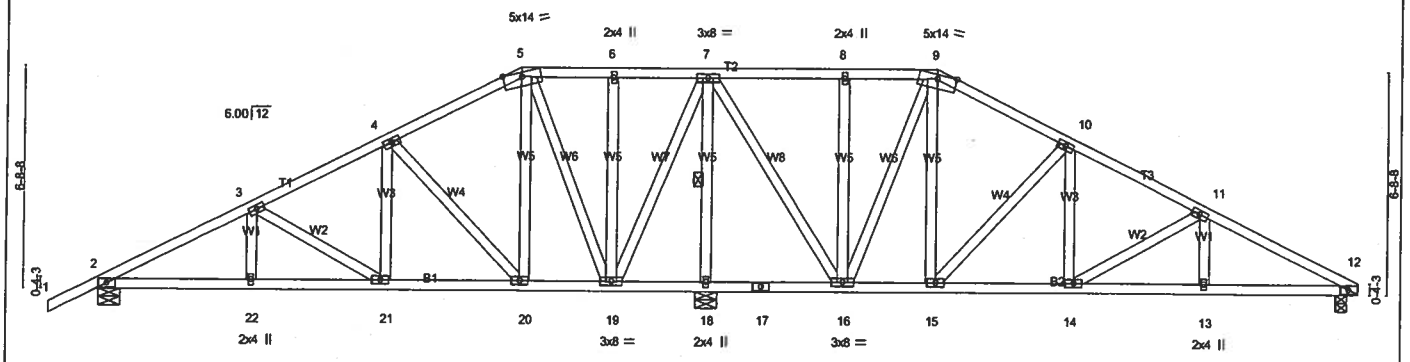
Dwg.#1108061094

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T29	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:24:01 2006 Page 1

-1-6-0	4-7-3	8-7-15	12-8-10	15-6-5	18-4-0	22-5-11	25-3-6	29-4-1	33-4-13	38-0-0
1-6-0	4-7-3	4-0-11	4-0-11	2-9-11	2-9-11	4-1-11	2-9-11	4-0-11	4-0-11	4-7-3

Scale = 1:66.2



4-7-3	8-7-15	12-8-10	15-6-5	18-4-0	22-5-11	25-3-6	29-4-1	33-4-13	37-6-0	38-0-0
4-7-3	4-0-11	4-0-11	2-9-11	2-9-11	4-1-11	2-9-11	4-0-11	4-0-11	4-1-3	0-6-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.05	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.07	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.02	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 254 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-18

REACTIONS (lb/size) 12=639/0-4-0, 2=665/0-8-0, 18=1945/0-8-0
Max Horz 2=136(load case 5)
Max Uplift12=-216(load case 6), 2=-513(load case 5), 18=-779(load case 5)
Max Grav 12=673(load case 10), 2=709(load case 9), 18=1945(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-957/709, 3-4=-610/520, 4-5=-235/284, 5-6=0/186, 6-7=0/186, 7-8=-77/100, 8-9=-77/100, 9-10=-375/161, 10-11=-767/259, 11-12=-1156/354
BOT CHORD 2-22=-569/791, 21-22=-569/791, 20-21=-338/502, 19-20=-131/176, 18-19=-519/370, 17-18=-519/370, 16-17=-519/370, 15-16=0/301, 14-15=-69/641, 13-14=-254/979, 12-13=-254/979
WEBS 3-22=-132/129, 3-21=-339/268, 4-21=-287/298, 4-20=-487/414, 5-20=-424/471, 5-19=-689/450, 6-19=-125/89, 7-19=-597/830, 7-18=-1782/925, 7-16=-301/945, 8-16=-191/136, 9-16=-597/244, 9-15=-175/473, 10-15=-506/262, 10-14=-78/321, 11-14=-393/213, 11-13=0/145

JOINT STRESS INDEX
2 = 0.48, 3 = 0.41, 4 = 0.41, 5 = 0.30, 6 = 0.34, 7 = 1.00, 8 = 0.34, 9 = 0.28, 10 = 0.41, 11 = 0.41, 12 = 0.49, 13 = 0.34, 14 = 0.35, 15 = 0.38, 16 = 1.00, 17 = 0.16, 18 = 0.65, 19 = 0.99, 20 = 0.38, 21 = 0.35 and 22 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 12, 513 lb uplift at joint 2 and 779 lb uplift at joint 18.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061095

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T30	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:23:31 2006 Page 1

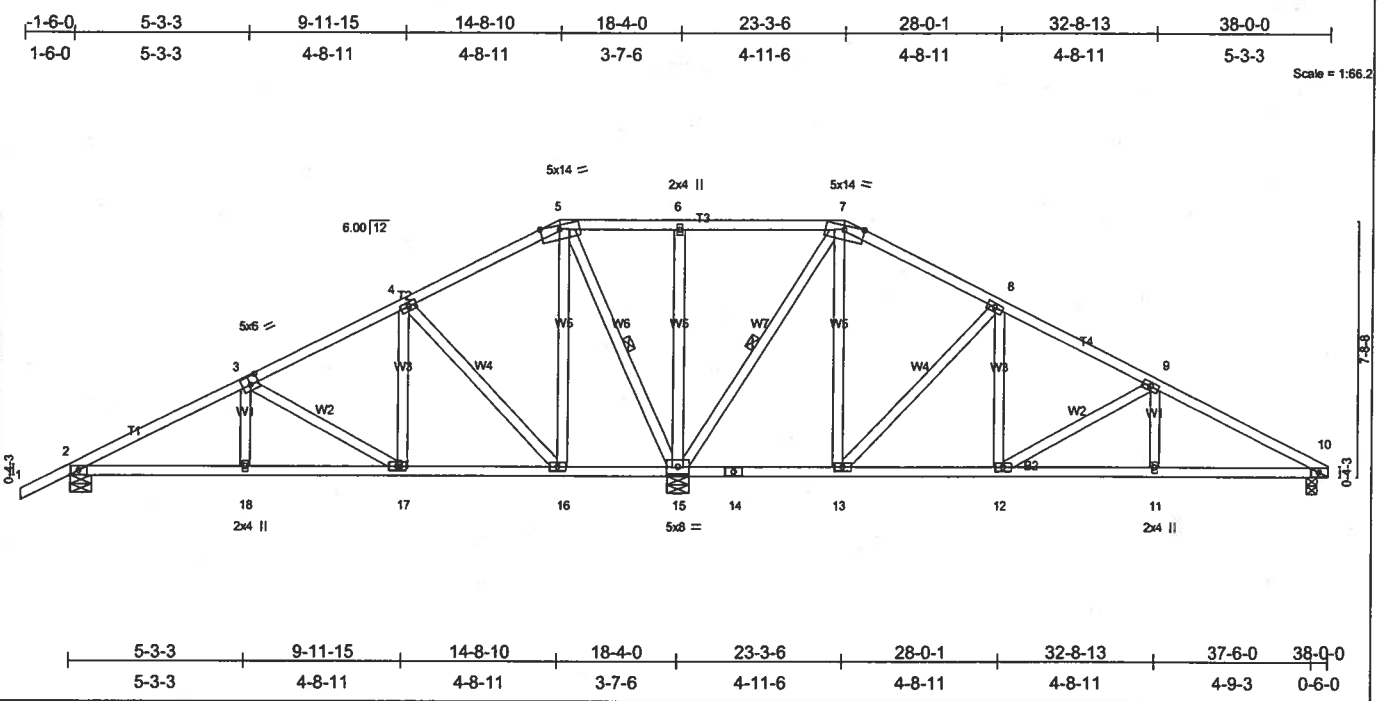


Plate Offsets (X,Y): [3:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.07	10-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 233 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-15, 7-15

REACTIONS (lb/size) 10=544/0-4-0, 2=563/0-8-0, 15=2142/0-8-0
Max Horz 2=150(load case 5)
Max Uplift10=-178(load case 6), 2=-467(load case 5), 15=-897(load case 5)
Max Grav 10=600(load case 10), 2=631(load case 9), 15=2142(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-769/576, 3-4=-342/330, 4-5=0/369, 5-6=-212/700, 6-7=-212/700, 7-8=-77/192, 8-9=-499/145, 9-10=-968/261
BOT CHORD 2-18=-459/622, 17-18=-456/618, 16-17=-191/255, 15-16=-270/279, 14-15=-135/282, 13-14=-135/282, 12-13=0/392, 11-12=-164/808, 10-11=-164/808
WEBS 3-18=-166/154, 3-17=-426/342, 4-17=-346/365, 4-16=-583/491, 5-16=-505/528, 5-15=-979/675, 6-15=-253/176, 7-15=-1065/396, 7-13=-184/560, 8-13=-581/307, 8-12=-95/376, 9-12=-481/254, 9-11=0/173

JOINT STRESS INDEX
2 = 0.44, 3 = 0.32, 4 = 0.41, 5 = 0.44, 6 = 0.34, 7 = 0.57, 8 = 0.41, 9 = 0.41, 10 = 0.43, 11 = 0.34, 12 = 0.35, 13 = 0.38, 14 = 0.15, 15 = 0.29, 16 = 0.38, 17 = 0.35 and 18 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 10, 467 lb uplift at joint 2 and 897 lb uplift at joint 15.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

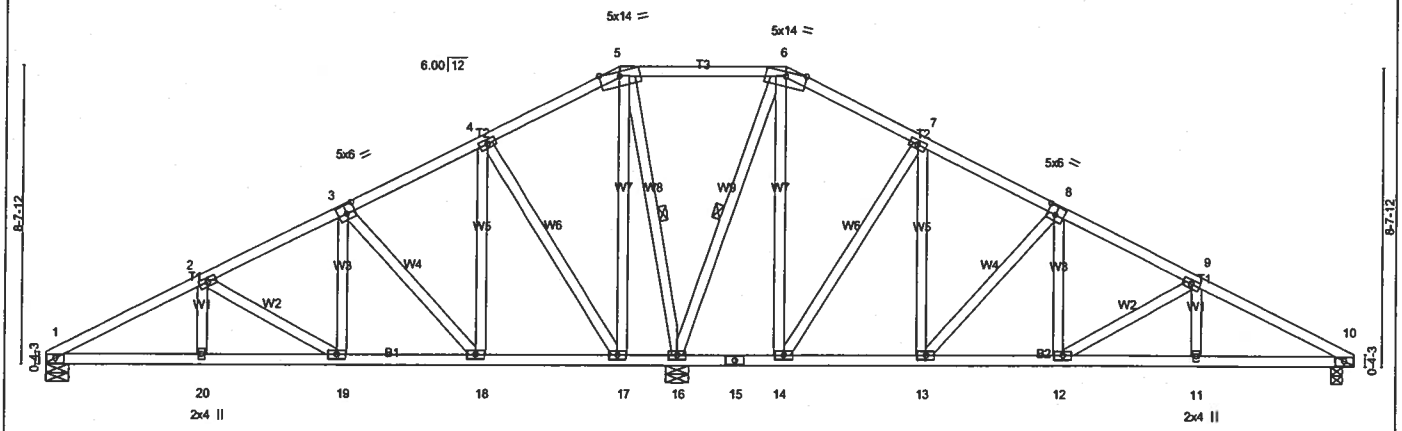
Dwg.#1108061096

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T31	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:22:59 2006 Page 1

4-6-11	8-6-13	12-7-0	16-7-2	21-4-14	25-5-0	29-5-3	33-5-5	38-0-0
4-6-11	4-0-2	4-0-2	4-0-2	4-9-12	4-0-3	4-0-2	4-0-2	4-6-11

Scale: 3/16"=1'



4-6-11	8-6-13	12-7-0	16-7-2	18-4-0	21-4-14	25-5-0	29-5-3	33-5-5	37-6-0	38-0-0
4-6-11	4-0-2	4-0-2	4-0-2	1-8-14	3-0-14	4-0-3	4-0-3	4-0-3	4-0-11	0-6-0

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [8:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.04	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.06	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 255 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 6-16

REACTIONS (lb/size) 1=441/0-8-0, 16=2181/0-8-0, 10=528/0-4-0
Max Horz 1=-121(load case 3)
Max Uplift1=-163(load case 5), 16=-643(load case 5), 10=-213(load case 6)
Max Grav 1=520(load case 9), 16=2181(load case 1), 10=593(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-824/241, 2-3=-446/151, 3-4=-81/247, 4-5=-50/580, 5-6=-67/674, 6-7=-25/407, 7-8=-225/165, 8-9=-597/255, 9-10=-989/350
BOT CHORD 1-20=-270/680, 19-20=-270/680, 18-19=-98/351, 17-18=-214/256, 16-17=-462/361, 15-16=-306/281, 14-15=-306/281, 13-14=-94/158, 12-13=-65/485, 11-12=-251/832, 10-11=-251/832
WEBS 2-20=0/145, 2-19=-387/209, 3-19=-77/303, 3-18=-480/250, 4-18=-165/498, 4-17=-633/329, 5-17=-222/538, 5-16=-1036/383, 6-16=-1063/367, 6-14=-238/599, 7-14=-633/329, 7-13=-165/497, 8-13=-486/252, 8-12=-80/312, 9-12=-402/214, 9-11=0/148

JOINT STRESS INDEX
1 = 0.35, 2 = 0.41, 3 = 0.30, 4 = 0.44, 5 = 0.62, 6 = 0.57, 7 = 0.44, 8 = 0.30, 9 = 0.41, 10 = 0.42, 11 = 0.34, 12 = 0.35, 13 = 0.38, 14 = 0.43, 15 = 0.15, 16 = 0.54, 17 = 0.43, 18 = 0.38, 19 = 0.35 and 20 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 1, 643 lb uplift at joint 16 and 213 lb uplift at joint 10.

LOAD CASE(S) Standard

NOVEMBER 08, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1108061097

Job	Truss	Truss Type	Qty	Ply	BASS RESIDENCE
L216492	T32	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Nov 06 09:28:04 2006 Page 1

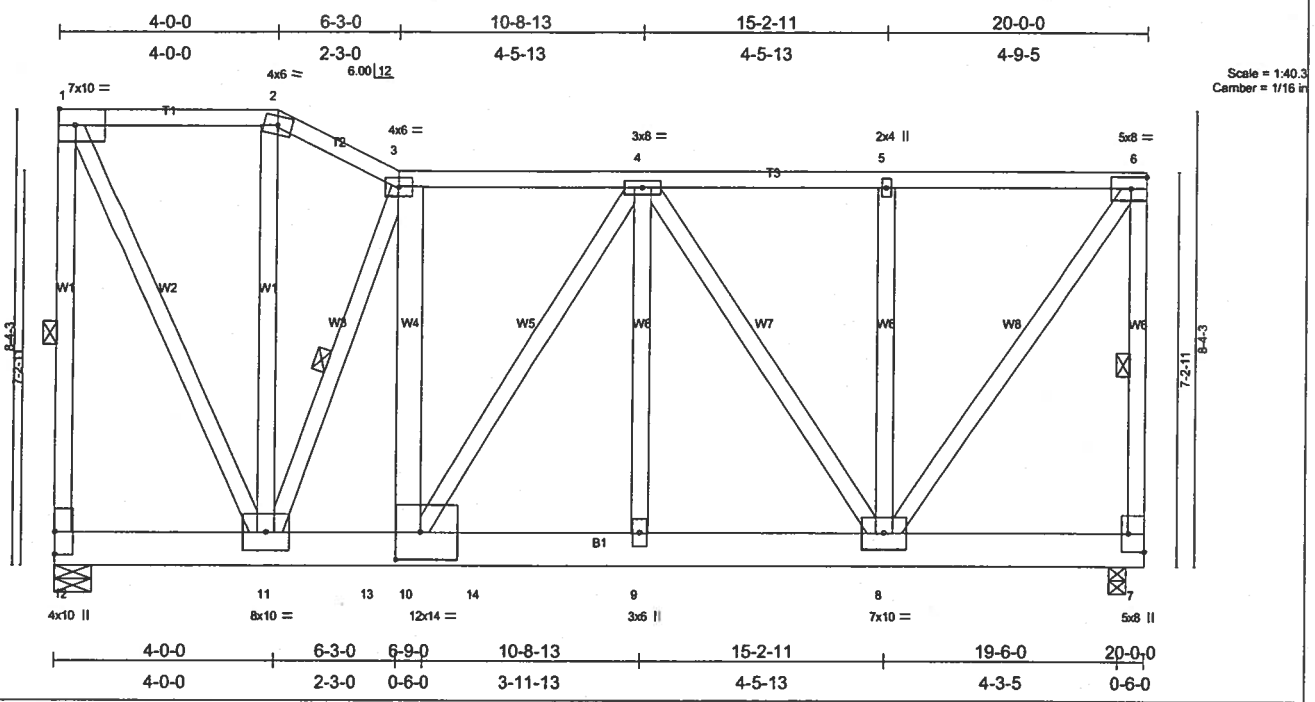


Plate Offsets (X,Y): [7:Edge,0-3-8], [10:0-5-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.86	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.18	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 426 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
W2 2 X 4 SYP No.2, W4 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-12, 6-7, 3-11

REACTIONS (lb/size) 12=7296/0-8-0, 7=4933/0-4-0
Max Horz 12=-36(load case 4)
Max Uplift12=-2706(load case 3), 7=-1838(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-6198/2318, 1-2=-2893/1068, 2-3=-3209/1173, 3-4=-4790/1759, 4-5=-2847/1057, 5-6=-2847/1057, 6-7=-4245/1608
BOT CHORD 11-12=0/31, 11-13=-1715/4670, 10-13=-1715/4670, 10-14=-1644/4437, 9-14=-1644/4437, 8-9=-1644/4437, 7-8=-16/36
WEBS 1-11=-2482/6734, 2-11=-429/1219, 3-11=-5391/2008, 3-10=-1307/3538, 4-10=-283/664, 4-9=-520/1566, 4-8=-2880/1064, 5-8=-229/170, 6-8=-1844/4980

JOINT STRESS INDEX
1 = 0.86, 2 = 0.34, 3 = 0.93, 4 = 0.75, 5 = 0.34, 6 = 0.80, 7 = 0.23, 8 = 0.68, 9 = 0.25, 10 = 0.27, 11 = 0.90 and 12 = 0.38

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
4) Provide adequate drainage to prevent water ponding.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2706 lb uplift at joint 12 and 1838 lb uplift at joint 7.
7) Girder carries tie-in span(s): 30-0-0 from 0-0-0 to 5-9-0; 16-0-0 from 7-9-0 to 20-0-0
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3843 lb down and 1451 lb up at 6-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 3-6=-54, 12-13=-611(F=-581), 13-14=-30, 7-14=-317(F=-287)
Concentrated Loads (lb)
Vert: 10=-3843(F)

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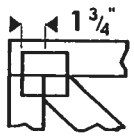
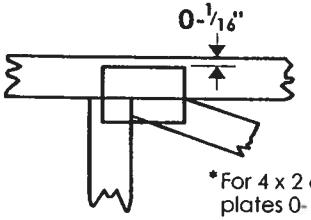
Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

*This symbol indicates the required direction of slots in connector plates.

***Plate location details available in MiTek 20/20 software or upon request.**

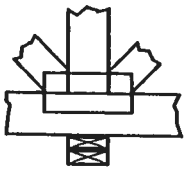
PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

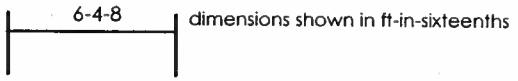


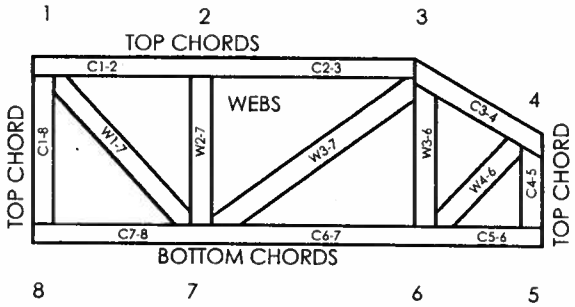
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System





JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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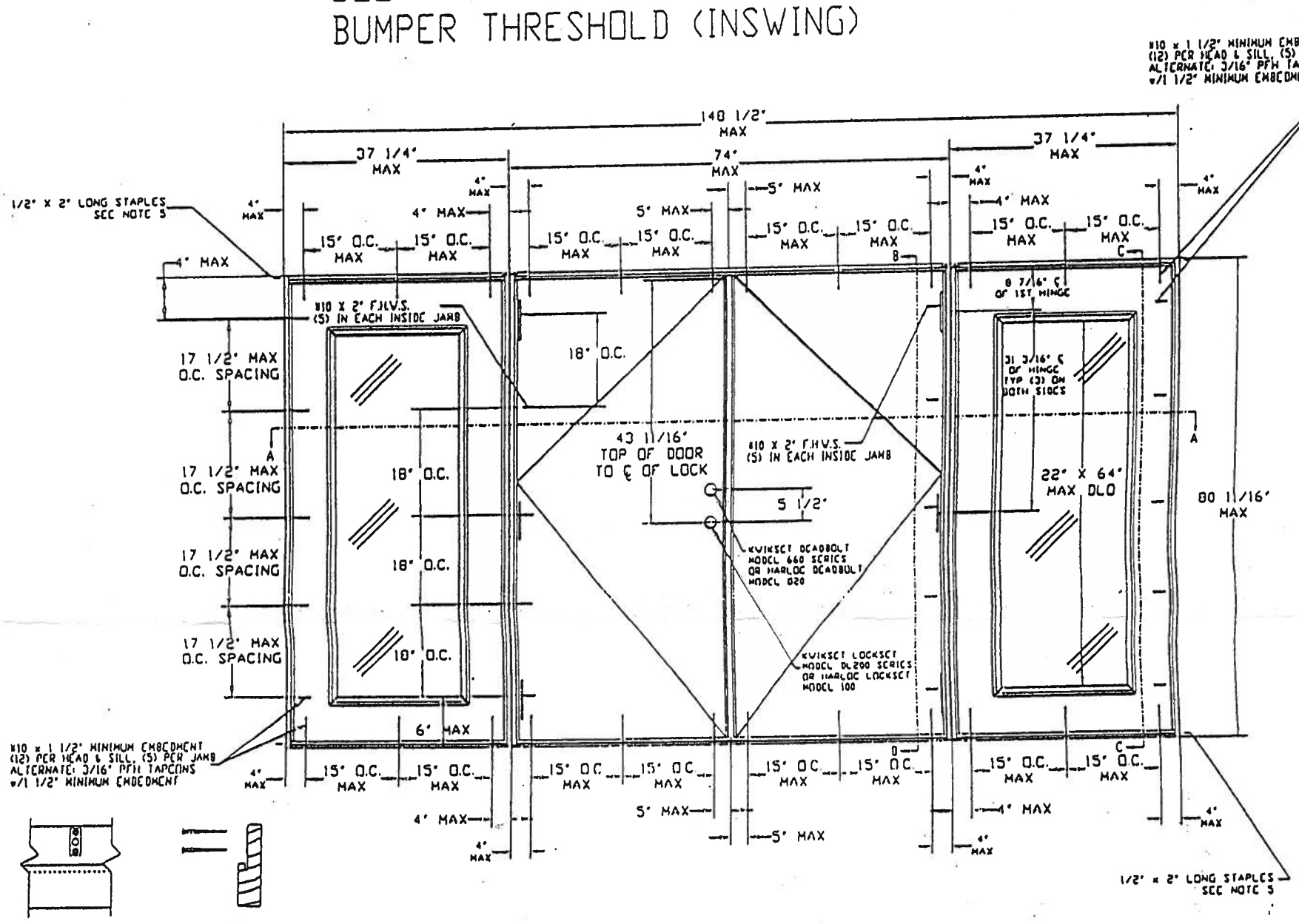
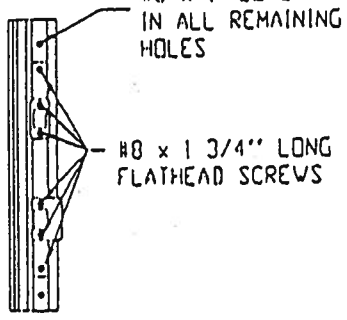
PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH A BUMPER THRESHOLD (INSWING)



ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS



ASTRAGAL

L.H. INSWING R.H. INSWING

NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.

4. UNIT MUST BE INSTALLED WITH 'MIAMI-DADE COUNTY APPROVED' SHUTTERS

5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.

6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.

7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.

8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED x	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED*	+55.0 psf
Negative	NOT APPROVED*	-55.0 psf

x UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.24

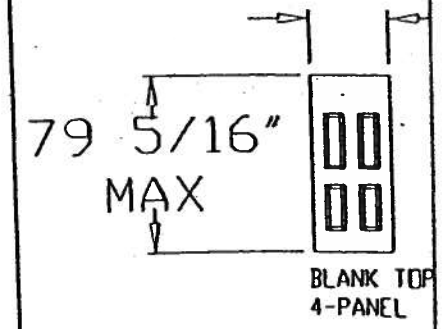
LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS

LIMITS UNLESS NOTED, FRAC : DEC : ANG :
EXTRUSIONS UNLESS NOTED, STD COML TOL'S.
ENGINEER:
DR BY R.S. DATE 7-29-97
PART NAME: ENTERGY-WOOD (DBL) DOUBLE DOOR W/SIDELITES
MAT'L: SCALE: N.T.S.

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

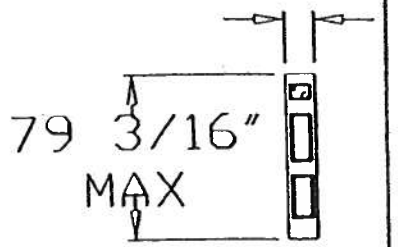
31-1029-EW-1
SHEET 1 OF 6
REVISION LETTER C

OTHER

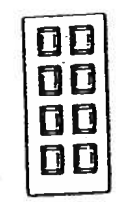


BLANK TOP 4-PANEL

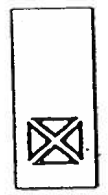
OTHER



SL-10



8-PANEL



CROSSBUCK

12-PANEL

4-PANEL EYEBROW

5-PANEL W/SCROLL

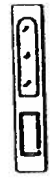
5-PANEL EYEBROW W/SCROLL

5-PANEL

5-PANEL EYEBROW

SL-25

SL-55



SL-30D

SL-40

SL-90A

SL-90B

SL-90C

SL-30B

SL-30C

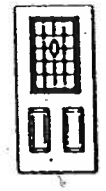
SL-70

SL-80

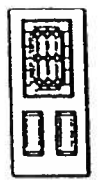
PD-1

PD-2

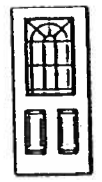
PD-10



PD-11



PD-12



PD-13

PD-14

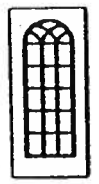
PD-15

PD-16

PD-17

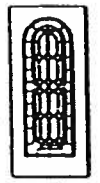
PD-18

PD-19

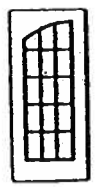


PD-27

PD-28



PD-29

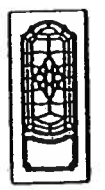


PD-30

PD-31

PD-32

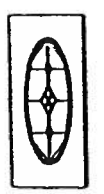
PD-33



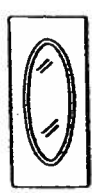
PD-34

PD-35

PD-36



PD-43A



PD-43B

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.24

LIMITS UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS UNLESS NOTED, STD. COM'L. TOL'S

ENGINEER:

DR. BY J.D. | DATE 1/15/01

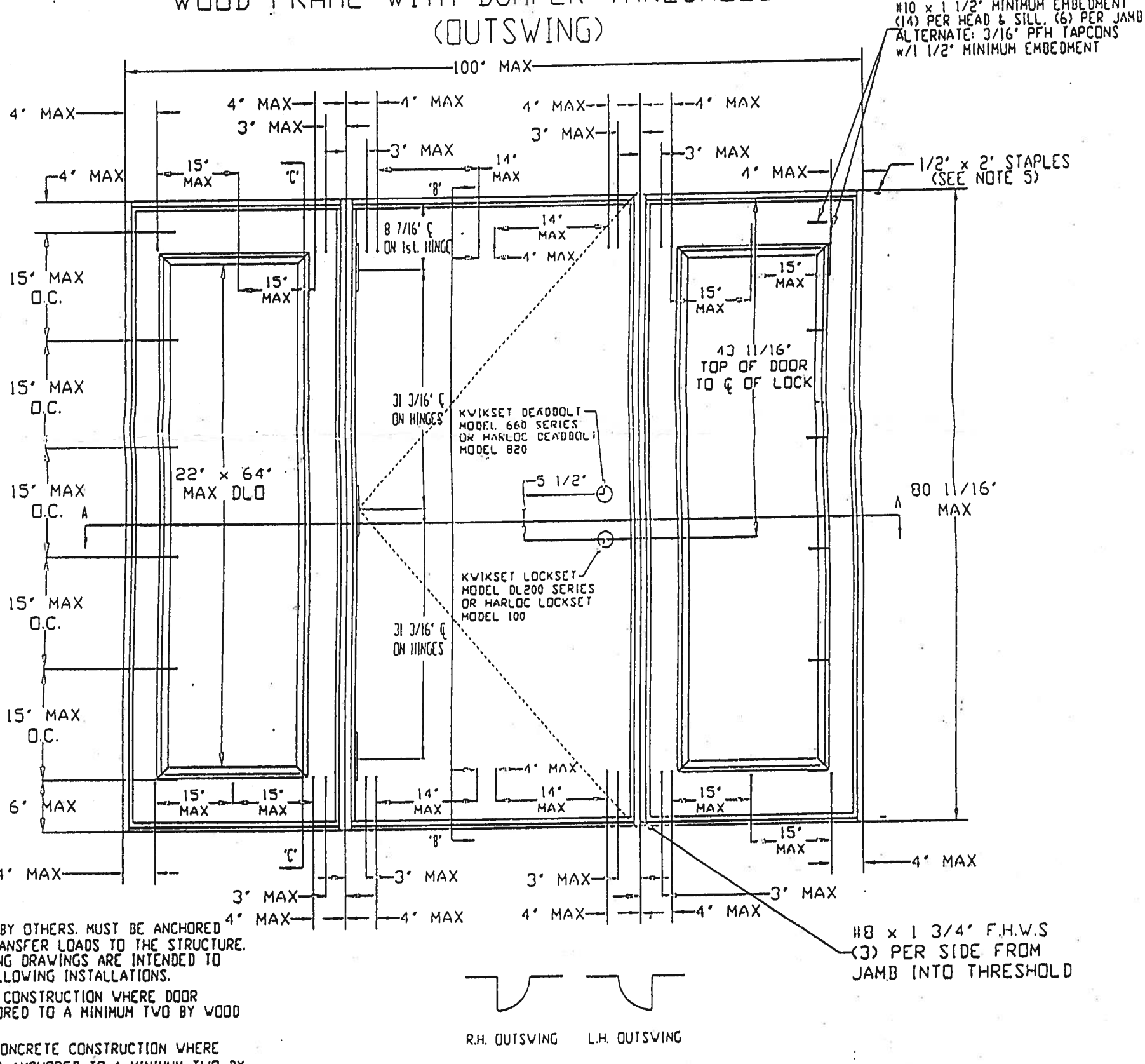
LTR.	REVISIONS	DATE

PART NAME: PREMDOR DOOR OPTIONS
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1029-EW-1
SHEET 6 OF 6

PREMDOR (ENTERGY BRAND) WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (OUTSWING)



R.H. OUTSWING L.H. OUTSWING

NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO BASE ON SIDELITES.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+55.0 psf	+55.0 psf
Negative	NOT APPROVED x	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

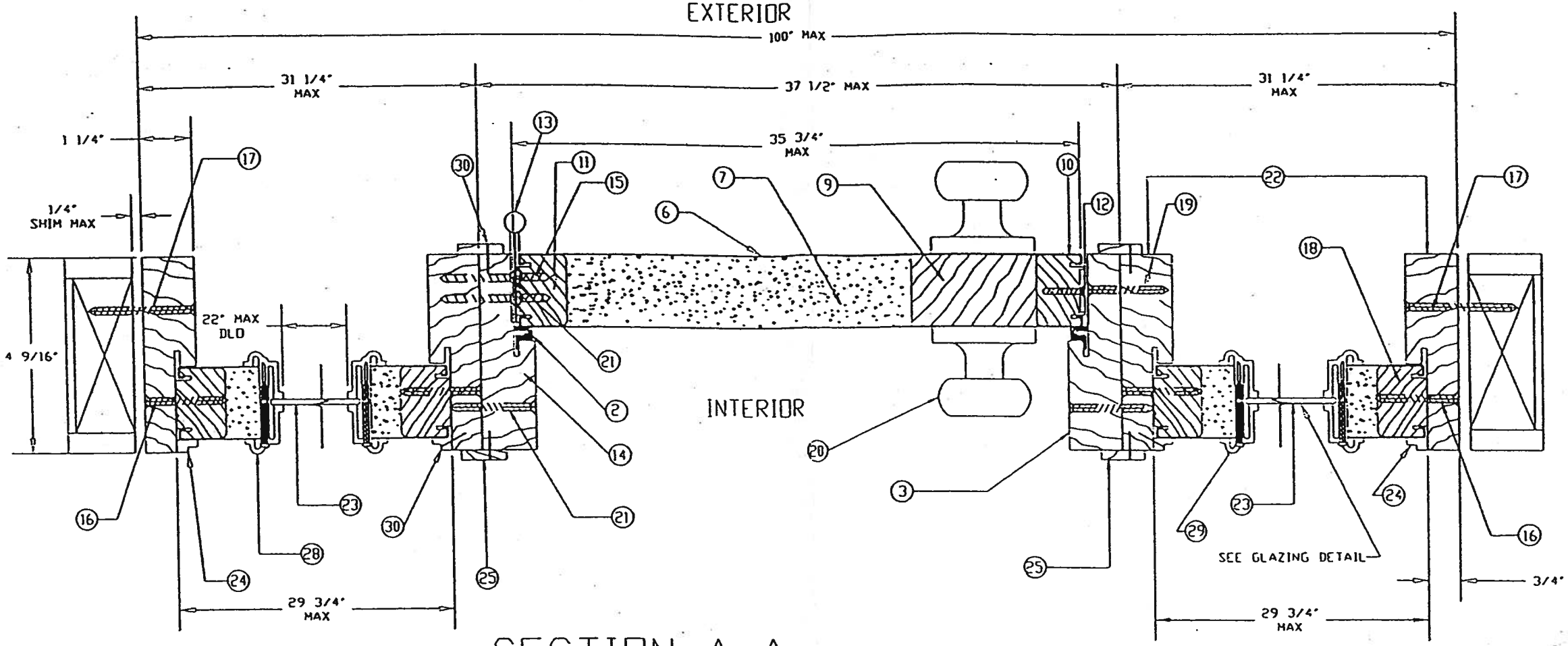
REV	DESCRIPTION	BY	
C	DADE COUNTY MODIFICATIONS	MAS/M	JB
B	ADD RATINGS & REDRAWN	8-25-98	RS
A	ADD SCREWS FROM JAMB TO THICK.D	11-11-97	RS
A	ADD NOTE 4 FOR STAPLES	11-11-97	RS
LTR	REVISIONS	SHT	BY

LIMITS UNLESS NOTED, FRAC ± DEC ± ANG ±
FINISHES UNLESS NOTED, SEE CONT. NO'S
ENGINEER:
DRAWN RS SHT 4-9-97
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE
MATL: SCALE:

PREMDOOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, TX 75686

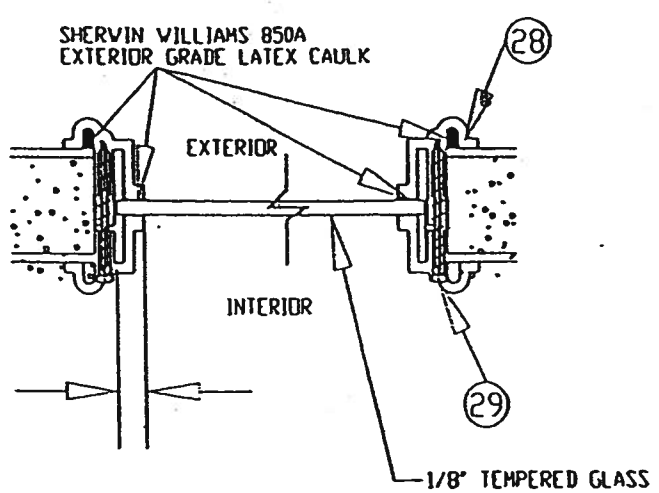
31-1020-EW-D
SHEET 1 OF 6

REVISION LETTER C

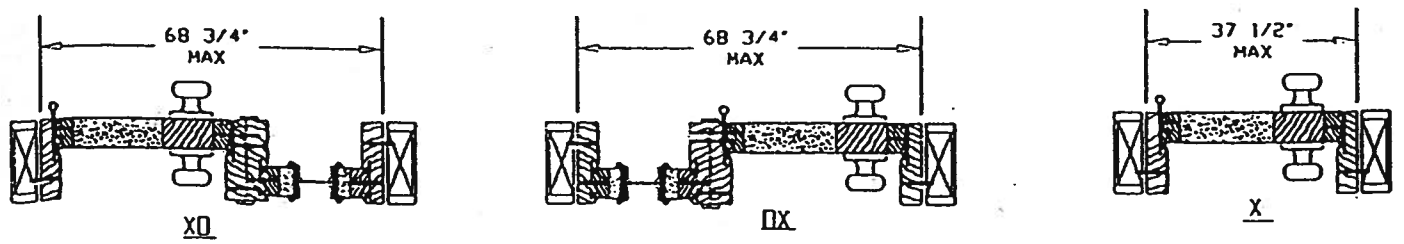


SECTION A-A
OUTSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



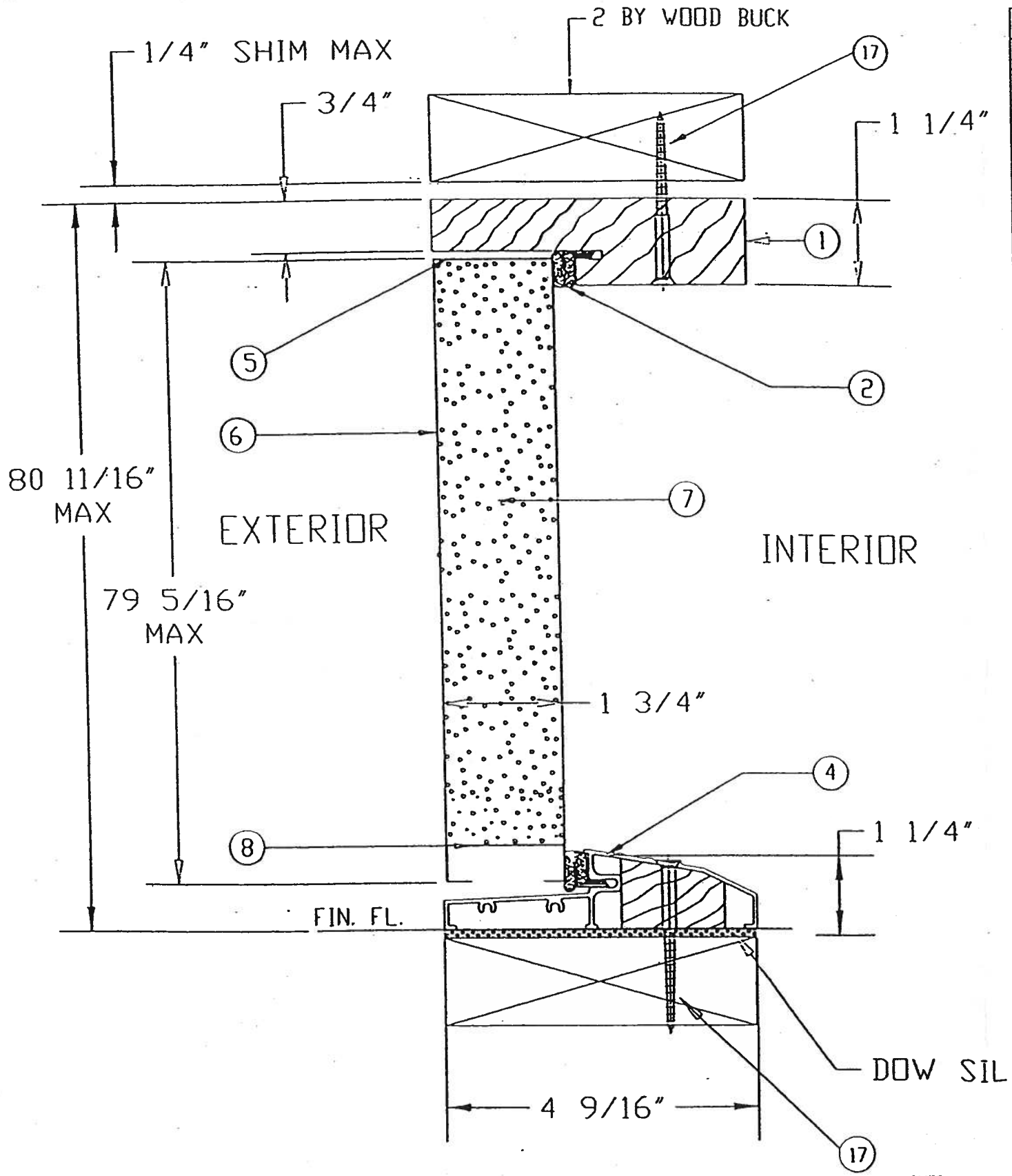
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

	C	DADE COUNTY MODIFICATIONS	5/11/99 JD
	B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98 RS
LIMITS UNLESS NOTED, FRAC. : DEC : ANG. : EXTRUSIONS UNLESS NOTED, STR CONT. TOL'S	A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-18-97 RS
ENGINEER:	LTR	REVISIONS	DATE BY
DR BY R.S. DATE 7-29-97	PART NAME: ENTERGY DOOR W/SIDELITES (A-A)		
	MAT'L:	SCALE: NTS	

PREMDOOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-0
SHEET 2 OF 6

REVISION LETTER C



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN. YIELD STRENGTH 33,000 PSI MIN. THICKNESS PER TENSILE TEST REPORT IS .03"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PTH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 x 1 3/4" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TO MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL-2 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND NO TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND IR

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

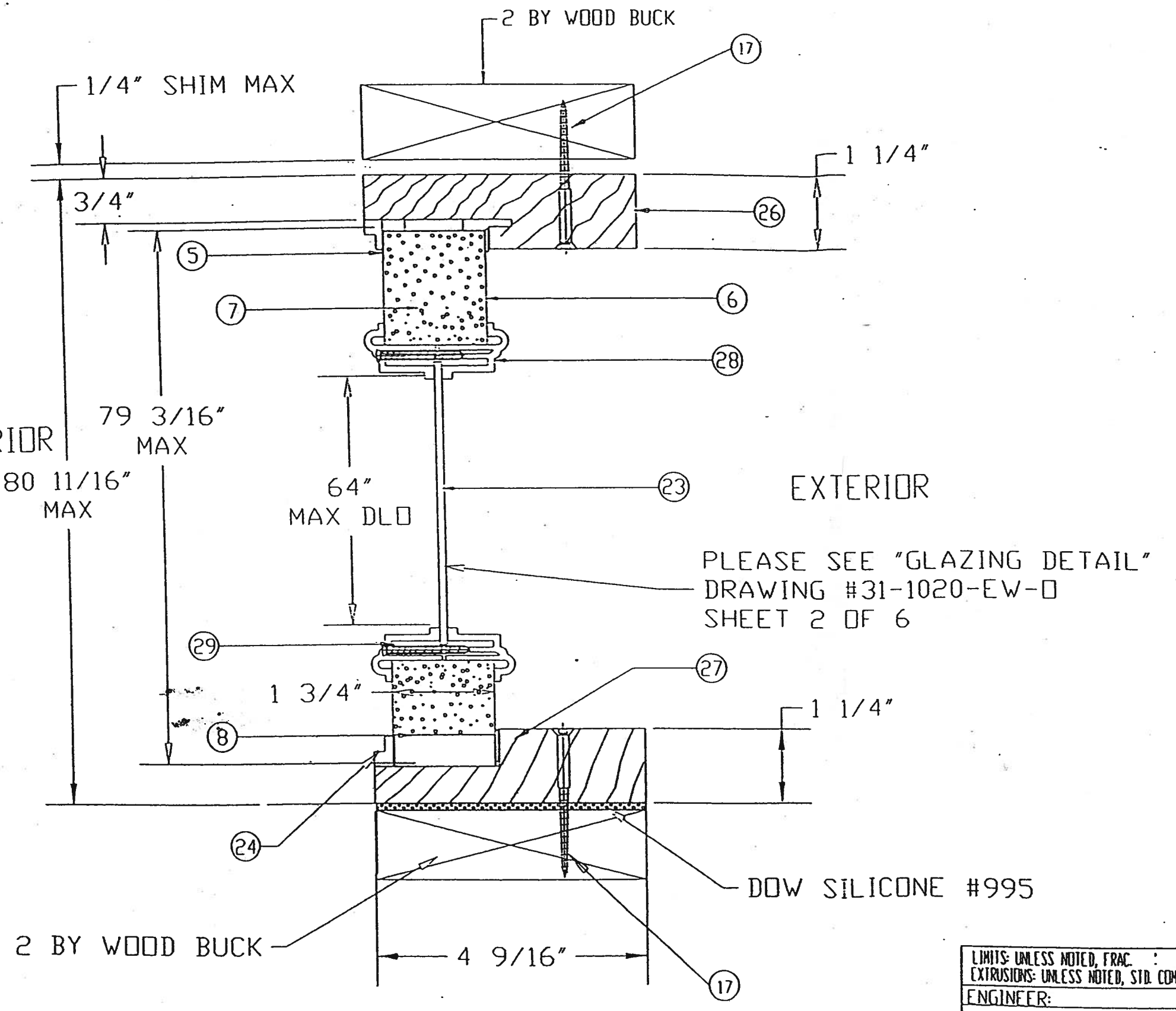
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	B	DADE COUNTY MODIFICATIONS	1/11/01 JD
	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98 RS
ENGINEER:	LTR.	REVISIONS	DATE BY
	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)		
DR. BY R.S. DATE 7-29-97	MAT'L:	SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-D
SHEET 3 OF 6

REVISION LETTER B



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JAN 05 2001
BY Maxwell Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LTR.	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

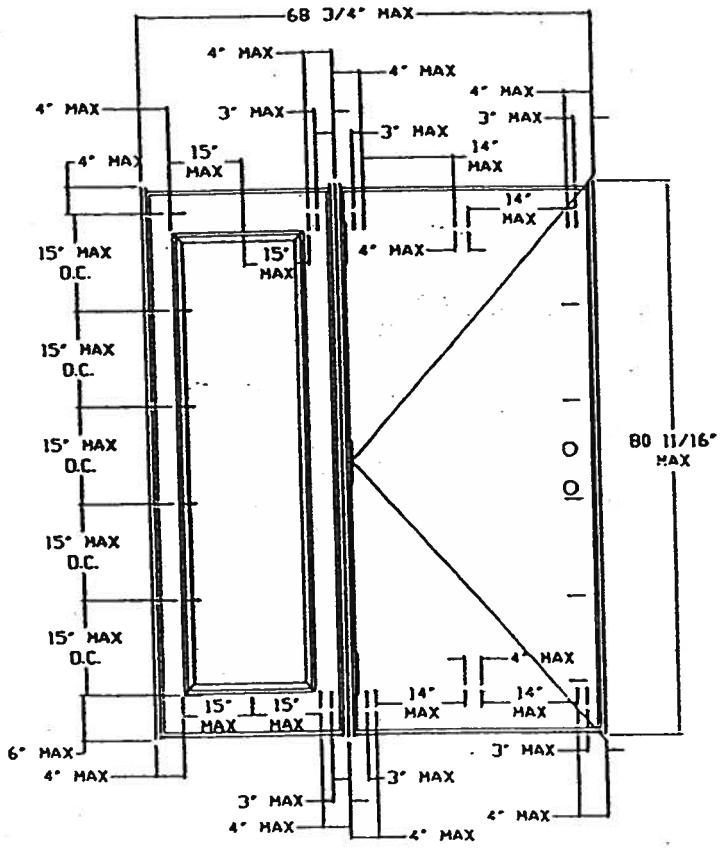
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)
DR. BY R.S. | DATE 7-29-97 | MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-0
SHEET 4 OF 6

REVISION LETTER D

OTHER DOOR CONFIGURATIONS



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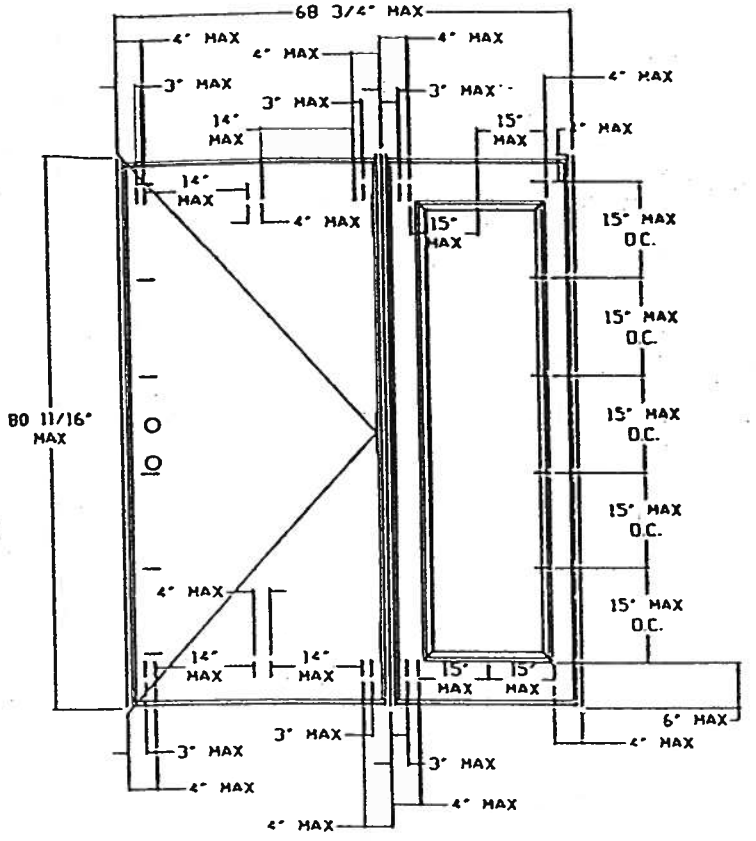

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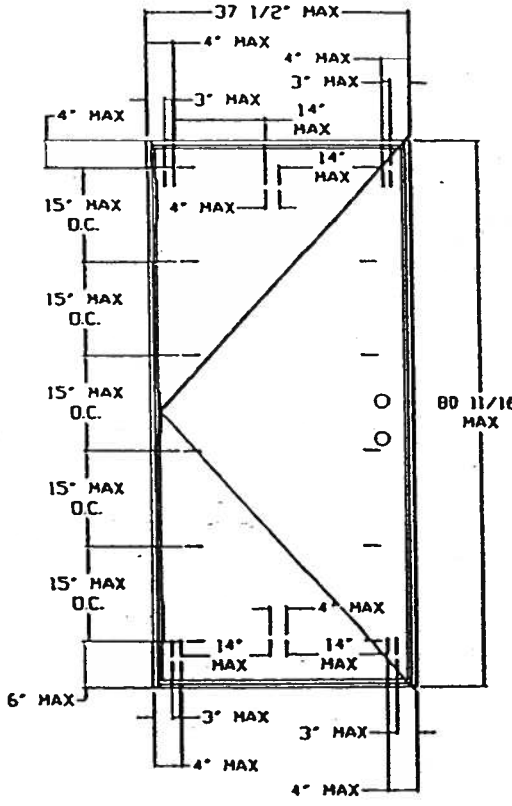

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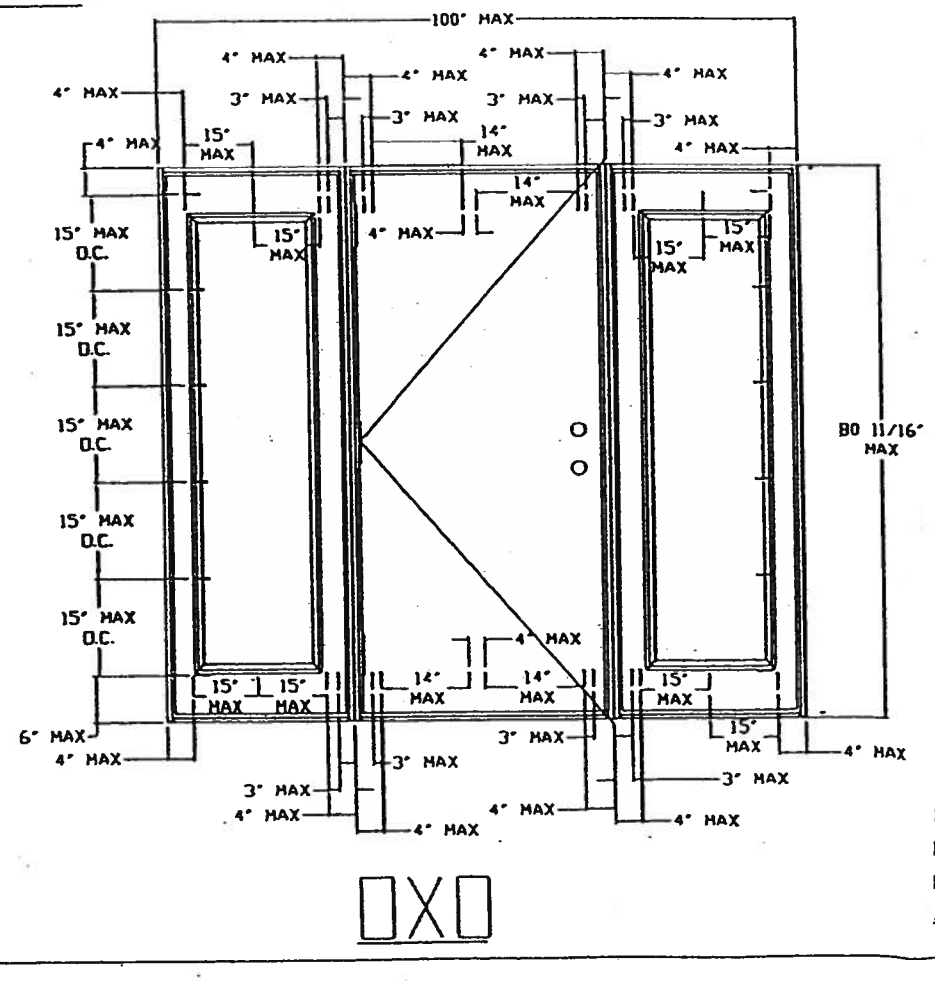
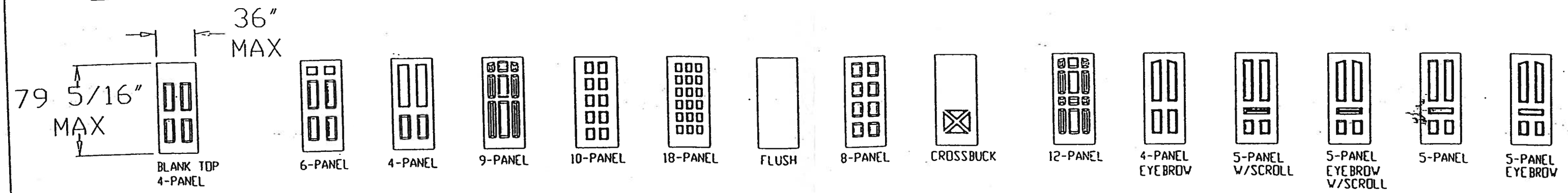


OXO

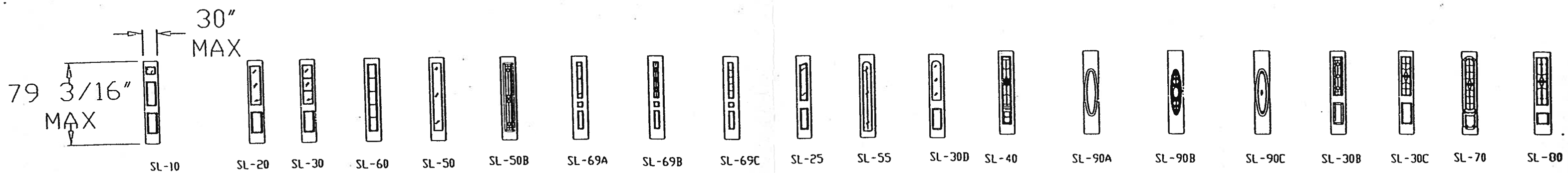
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

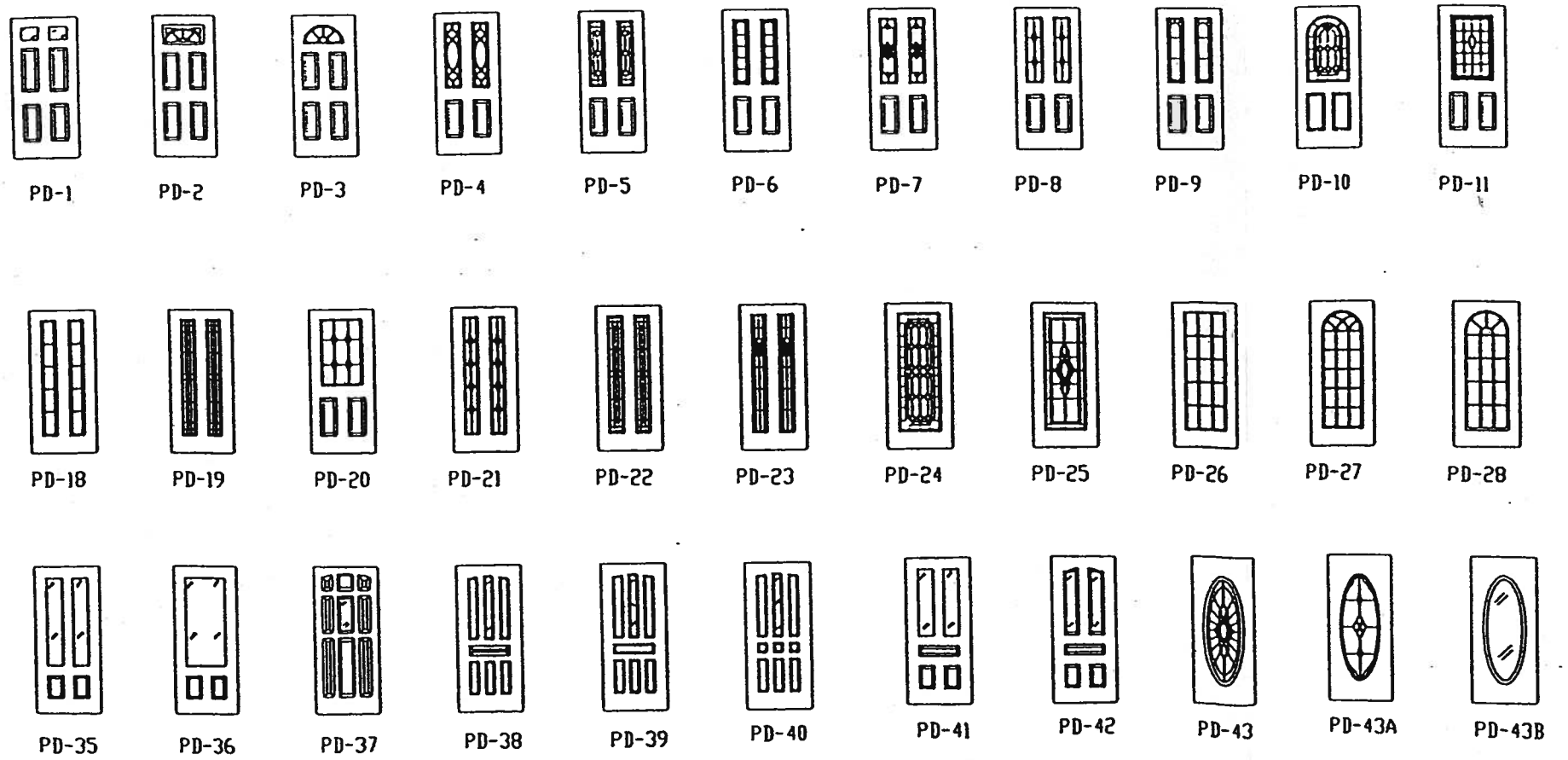
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.			
ENGINEER:	LTR	REVISIONS	DATE BY
	PART NAME:		
DR. BY J.D. DATE 1-11-01	MAT'L:	SCALE:	
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1020-EW-D SHEET 5 OF 6		
	REVISION LETTER		

OTHER DOOR PANEL STYLES



OTHER SIDELITE STYLES





APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COMM. TOL'S.

ENGINEER:

DR. BY J.D. | DATE 1/15/01

LTR	REVISIONS	DATE	BY

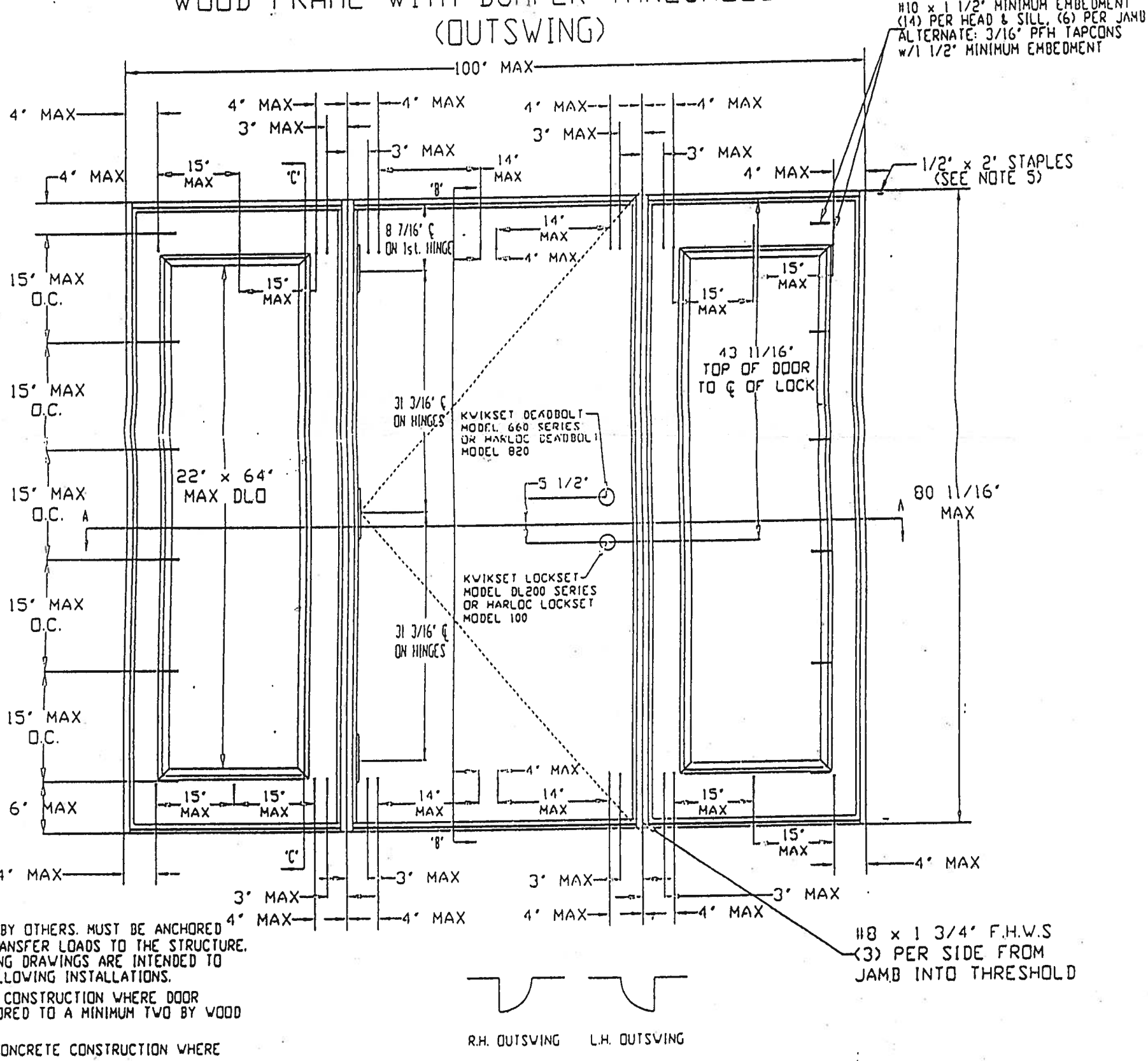
PART NAME: PREMDOR DOOR OPTIONS
MATL: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-D
SHEET 6 OF 6

REVISION LETTER

PREMDOR (ENTERGY BRAND) WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (OUTSWING)



NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.

4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS

5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO BASE ON SIDELITES.

6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.

7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.

8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+55.0 psf	+55.0 psf
Negative	NOT APPROVED *	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

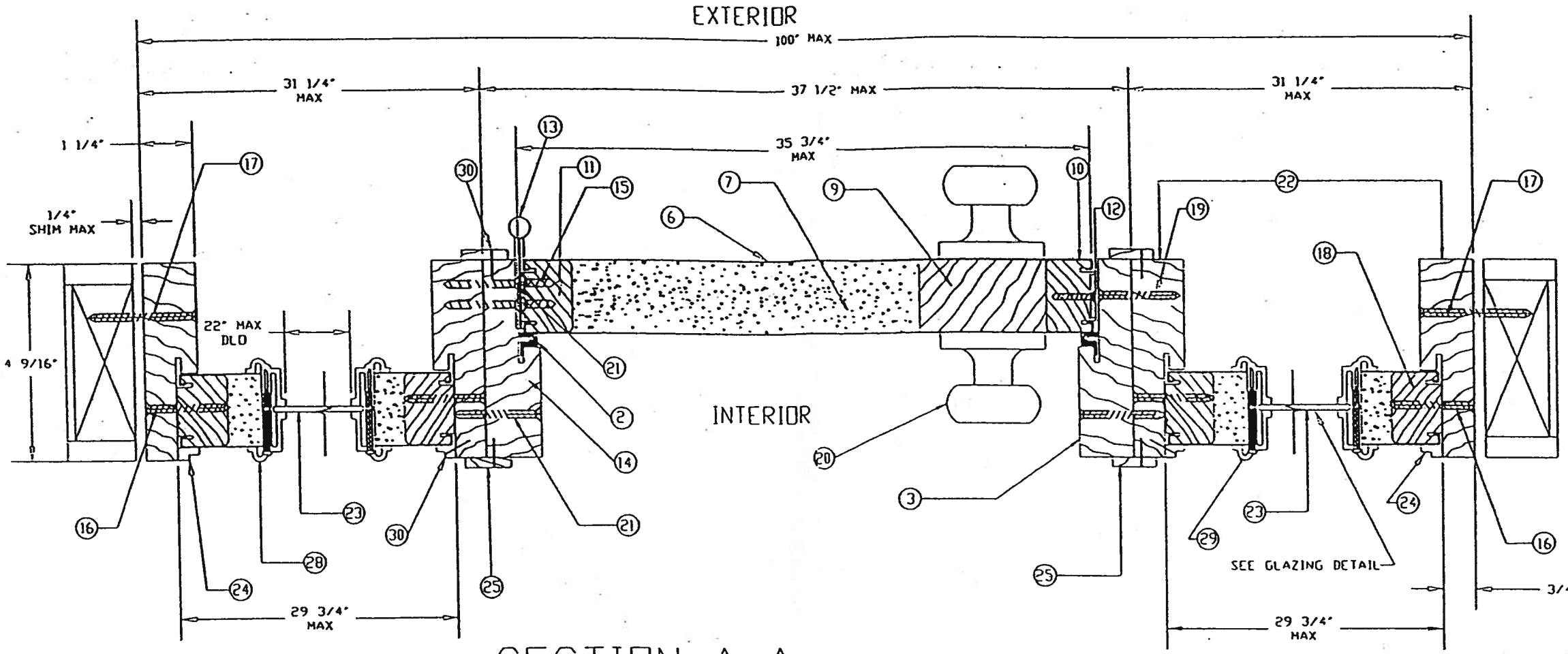
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

REV	REVISIONS	BY	DATE
C	DADE COUNTY MODIFICATIONS	MSM	3-0
B	ADD RATINGS & RE-DRAWN		11-25-98
A	ADD SCREWS FROM JAMB TO THRESH.		11-11-97
A	ADD NOTE 4 FOR STAPLES		11-11-97

UNITS: UNLESS NOTED, FRAC ± DEC ± ANG ±
TOLERANCES: UNLESS NOTED, SEE CONT. NO'S
ENGINEER:
DR BY R.S. DATE 4-9-97
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE
MATL: SCALE:

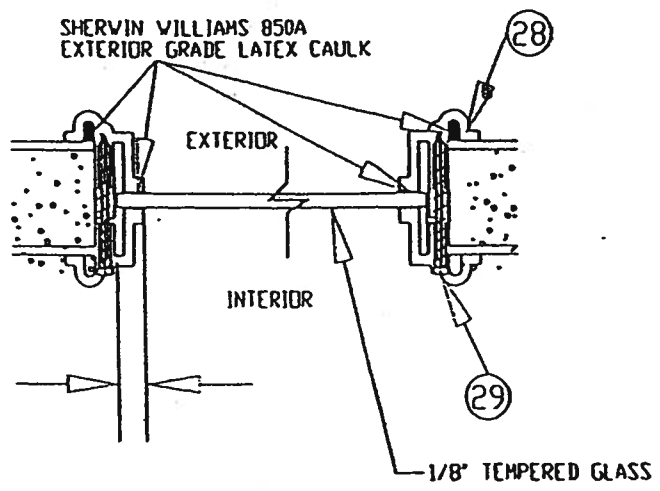
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, CA 94565

31-1020-EW-0
SHEET 1 OF 6
REVISION LETTER C

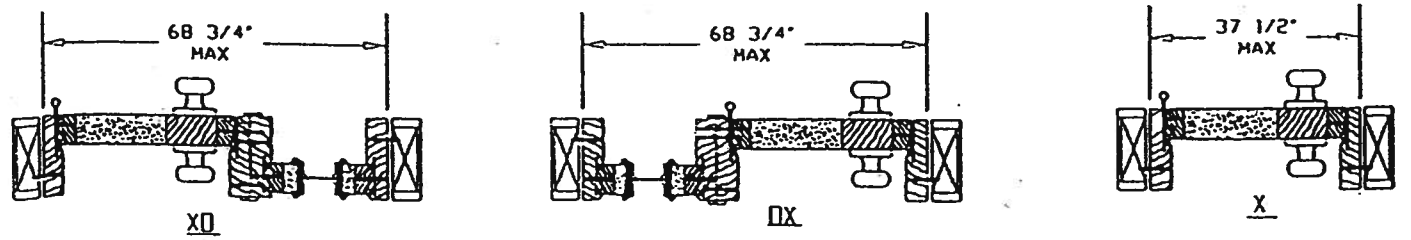


SECTION A-A
OUTSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



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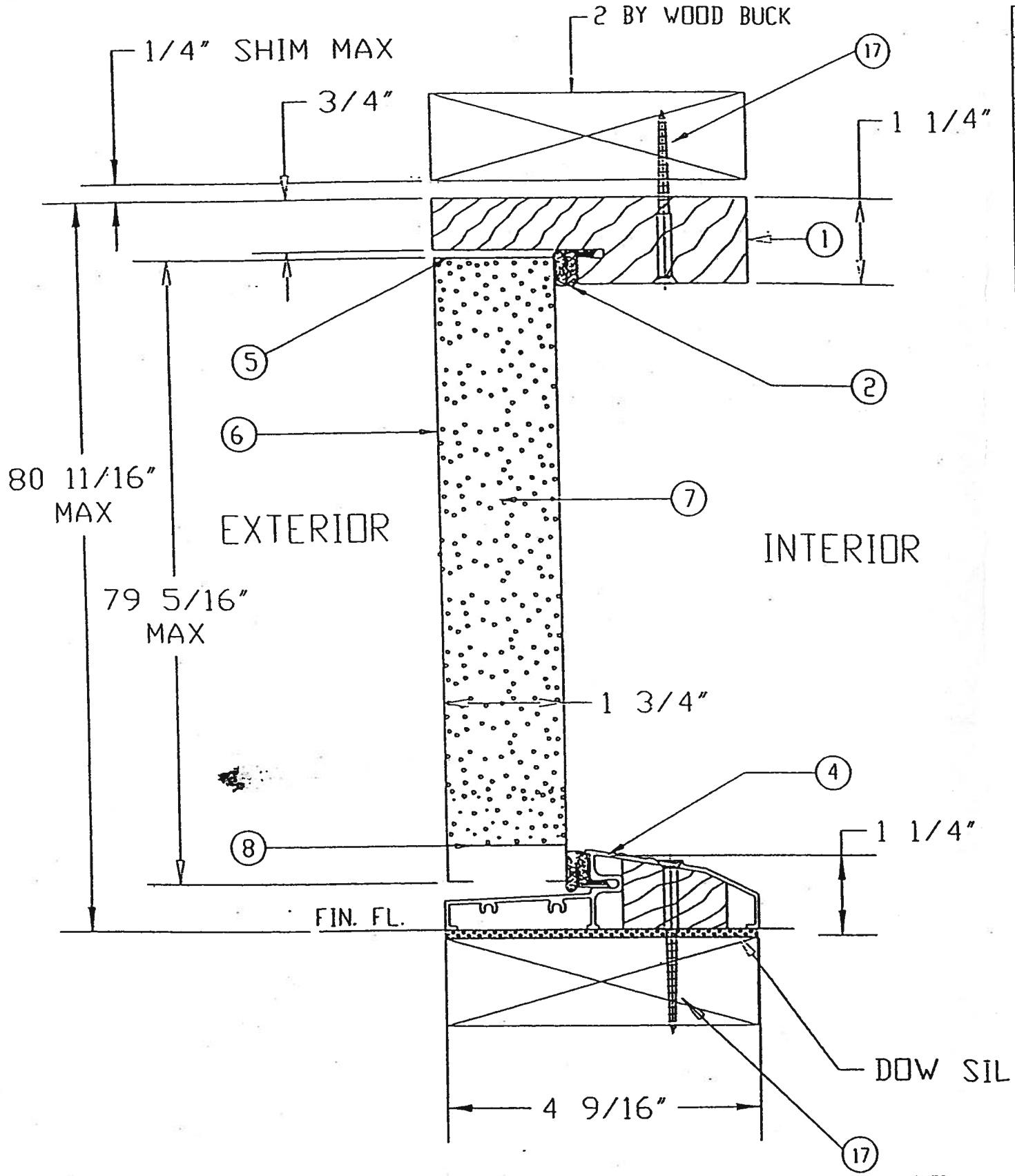
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	5/13/98	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-10-97	RS

LENGTHS UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS UNLESS NOTED, STD COML TOLS
ENGINEER:
DR. BY R.S. DATE 7-29-97
PART NAME: ENTRY DOOR W/SIDELITES (A-A)
MAT'L: SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-0
SHEET 2 OF 6
REVISION LETTER C



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN YIELD STRENGTH 33,000 PSI MIN THICKNESS PER TENSILE TEST REPORT IS .01"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PTH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 x 1 3/4" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TO MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL-2 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND NE TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THEREAFTER, USED ON MULLIONS AND IR

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

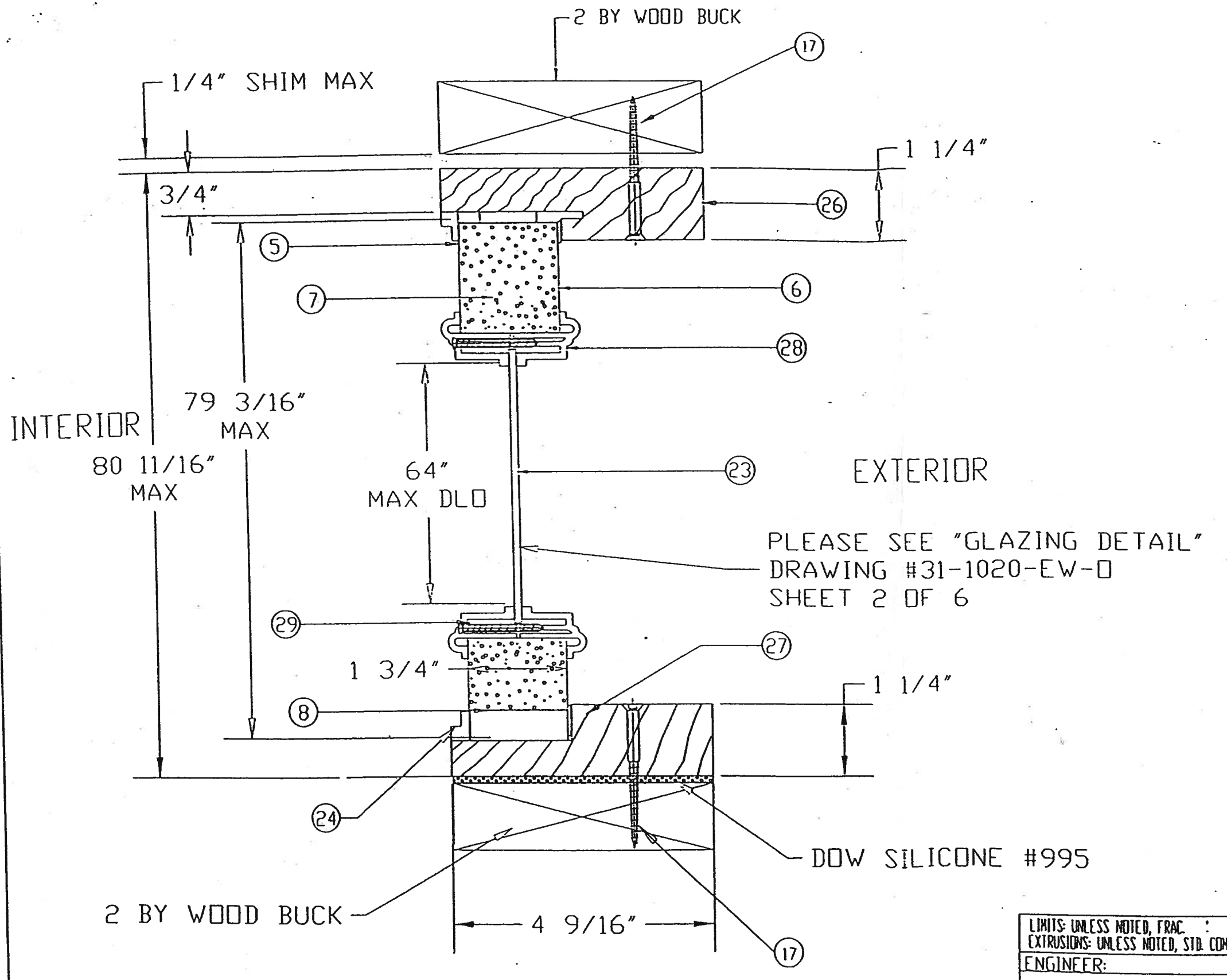
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	B	DADE COUNTY MODIFICATIONS	1/11/01	JD
	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
ENGINEER:	LTR.	REVISIONS	DATE	BY
	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)			
DR. BY R.S. DATE 7-29-97	MAT'L:		SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-0
SHEET 3 OF 6

REVISION LETTER B



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LTR.	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

DR. BY R.S. | DATE 7-29-97

PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)

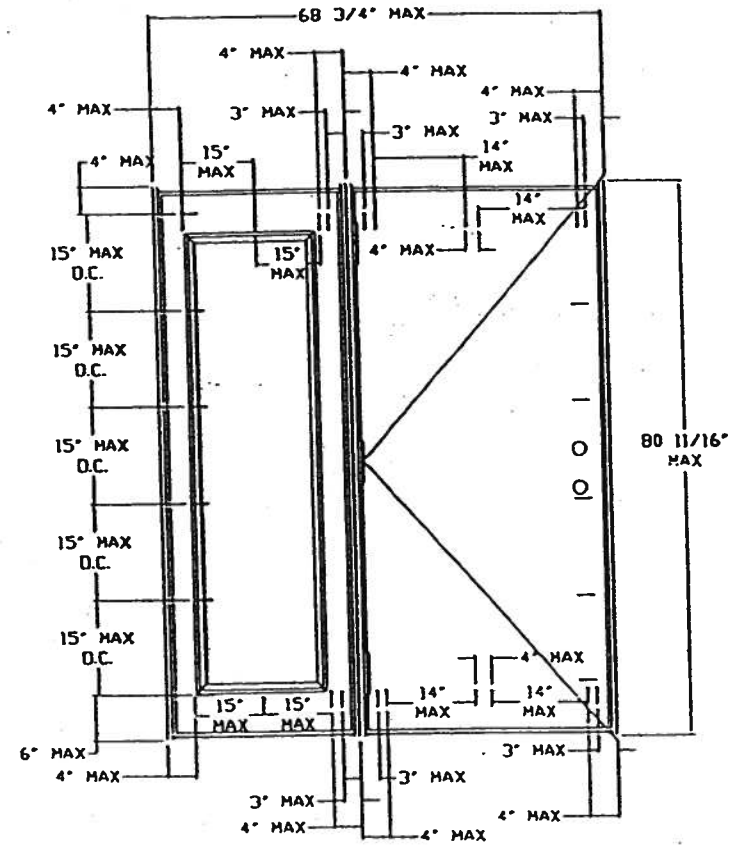
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-0
SHEET 4 OF 6

REVISION LETTER D

OTHER DOOR CONFIGURATIONS



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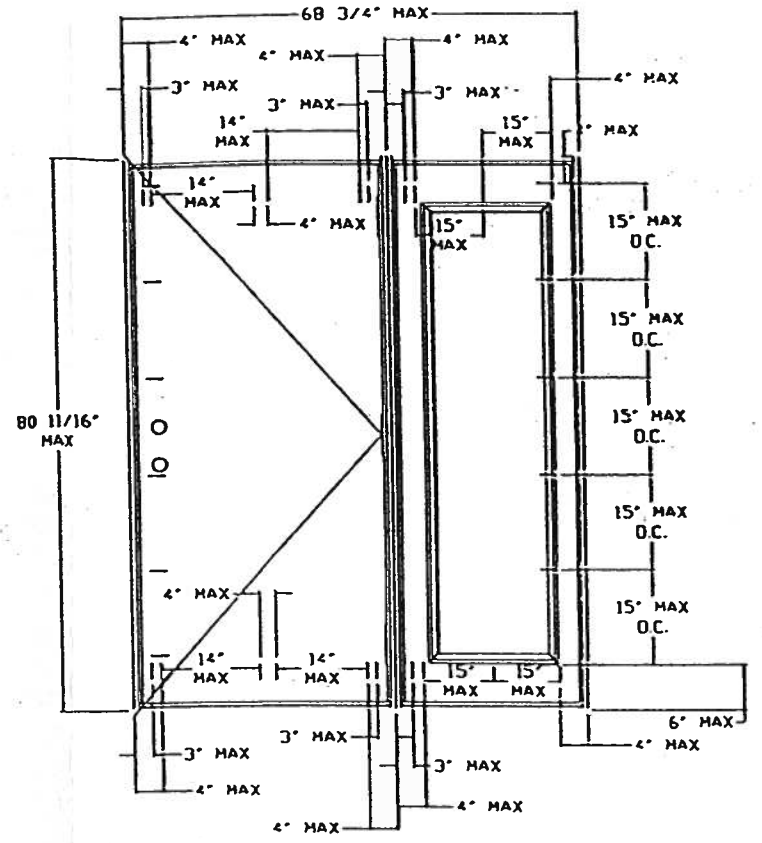

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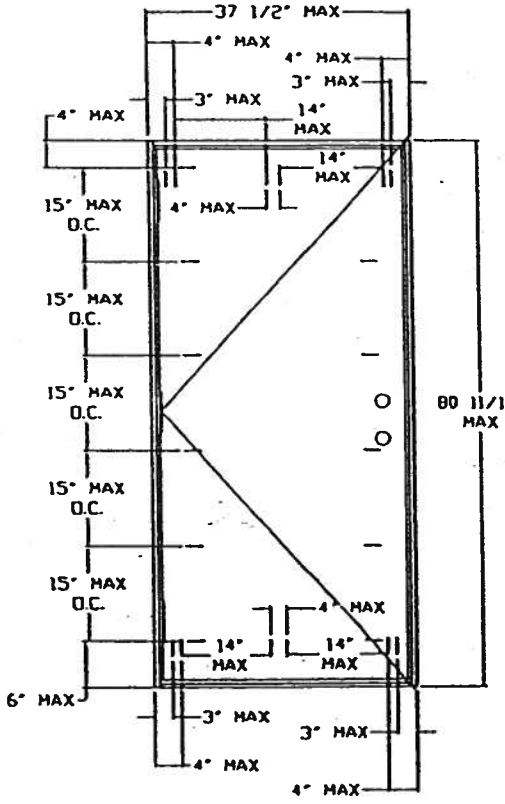

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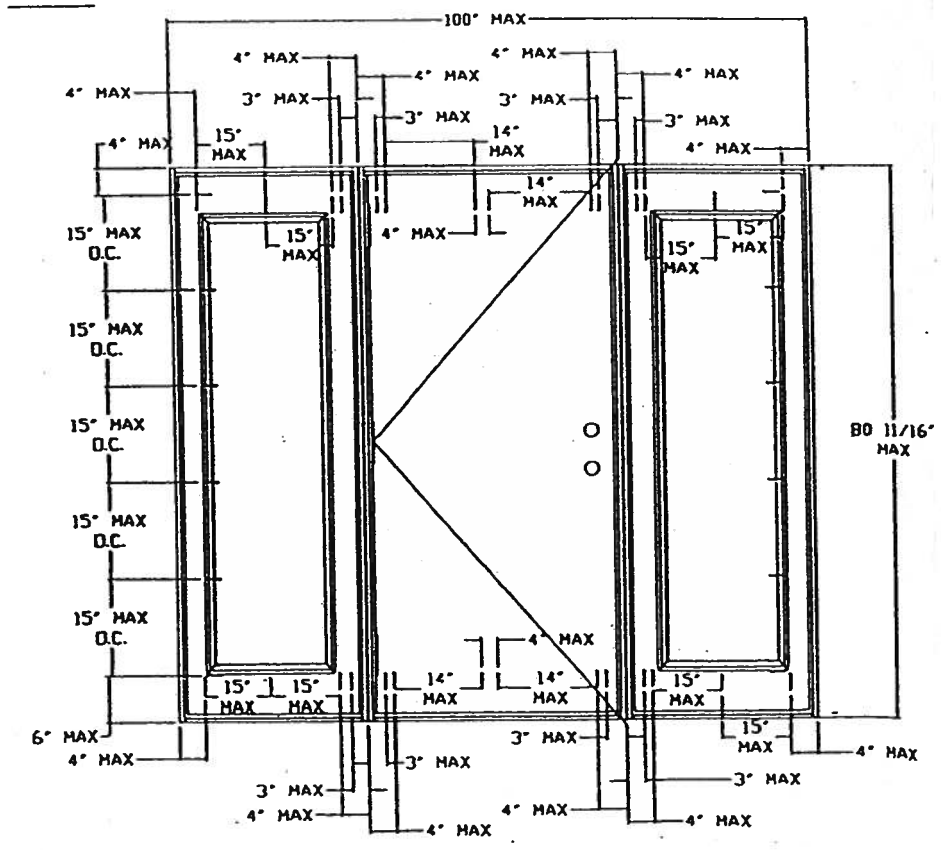

OXO

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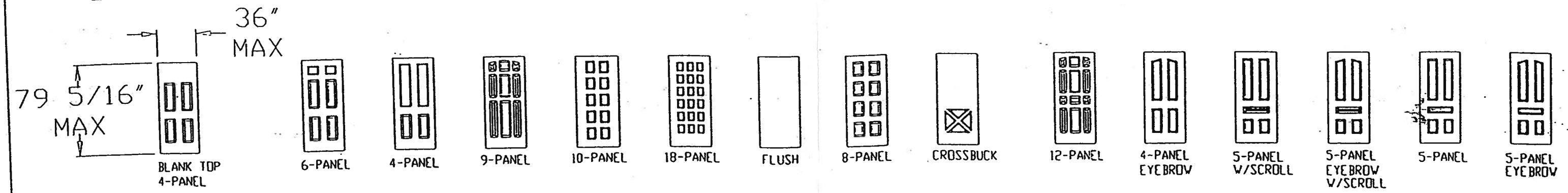
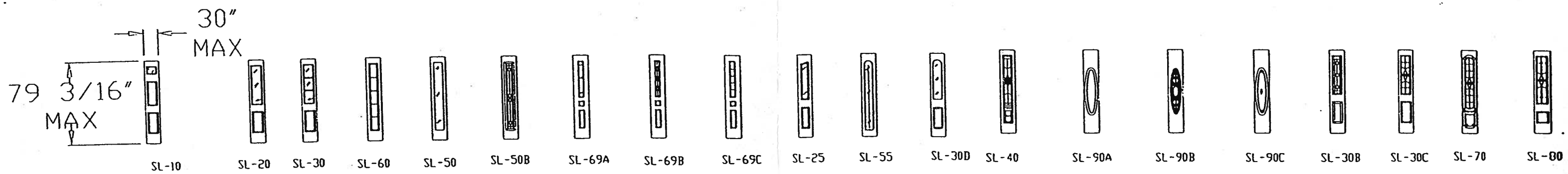
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

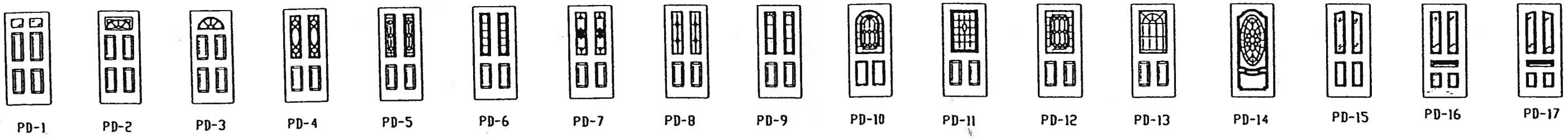
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S.			
ENGINEER:	LTR	REVISIONS	DATE BY
	PART NAME:		
DR. BY J.D. DATE 1-11-01	MAT'L:	SCALE:	
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1020-EW-D SHEET 5 OF 6		
	REVISION LETTER		

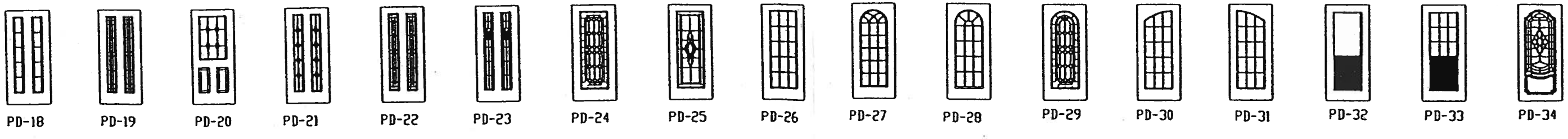
OTHER DOOR PANEL STYLES

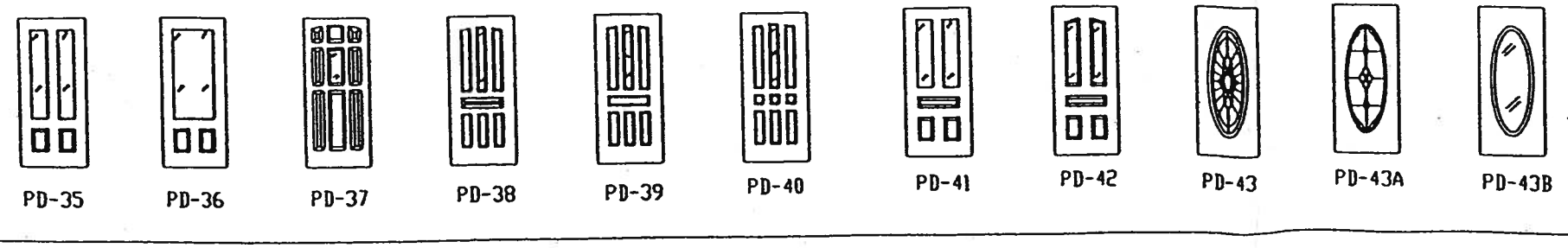


OTHER SIDELITE STYLES









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BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S

LTR.	REVISIONS	DATE	BY

ENGINEER:

PART NAME: PREMDOR DOOR OPTIONS

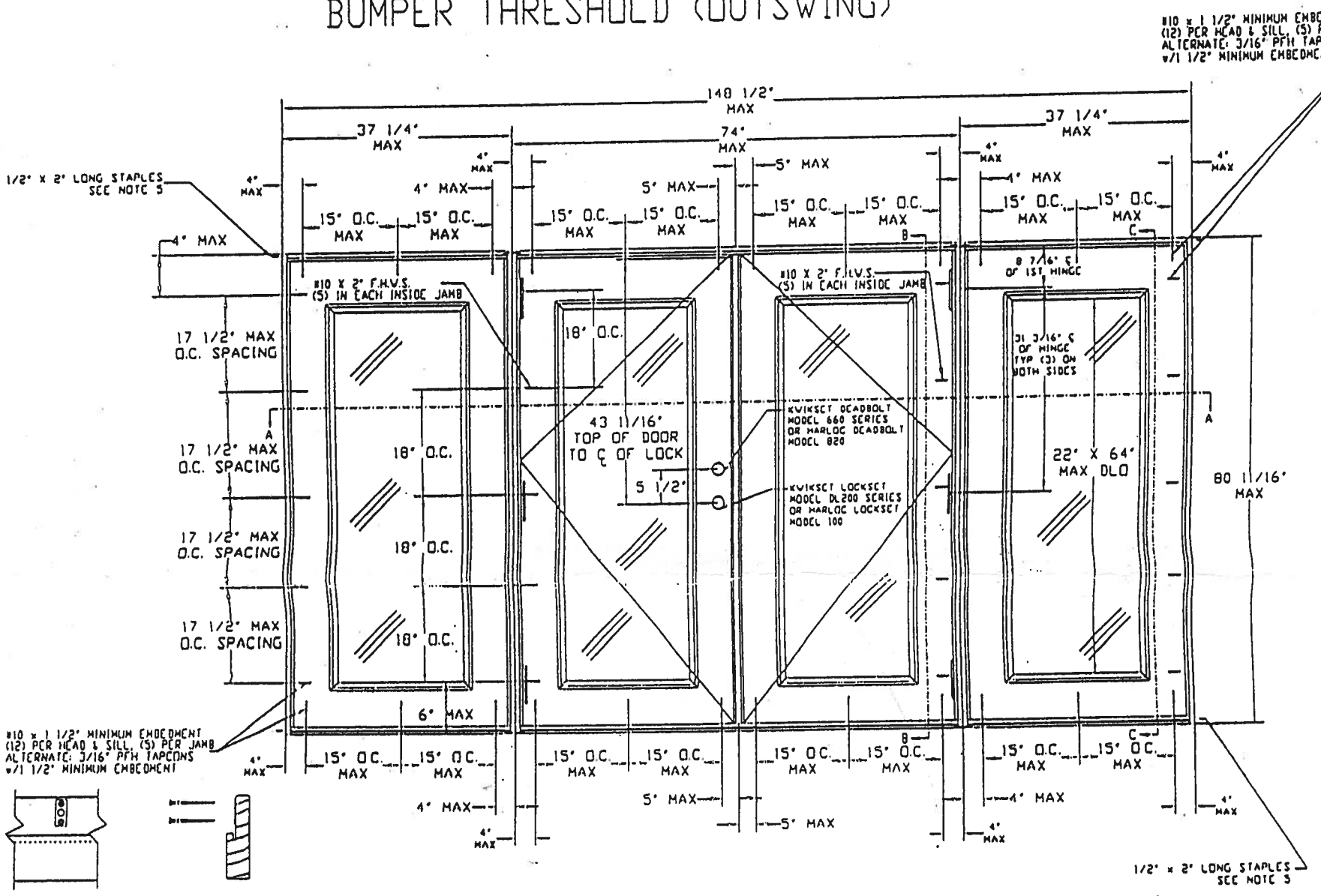
DR. BY J.D. | DATE 1/15/01 | MAT'L: | SCALE:

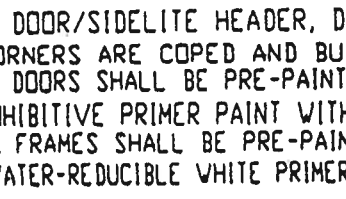
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-0
SHEET 6 OF 6

REVISION LETTER

PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH A BUMPER THRESHOLD (OUTSWING)





ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS

NOTES:

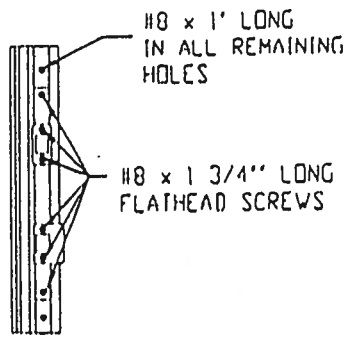
1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

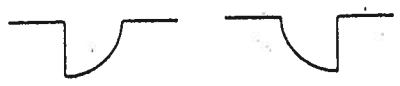
B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH 'MIAMI-DADE COUNTY APPROVED' SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.



ASTRAGAL



R.H. OUTSWING L.H. OUTSWING

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED x	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+ 50.5 psf	+50.5 psf
Negative	NOT APPROVED x	-50.5 psf

x UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0314.29

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS

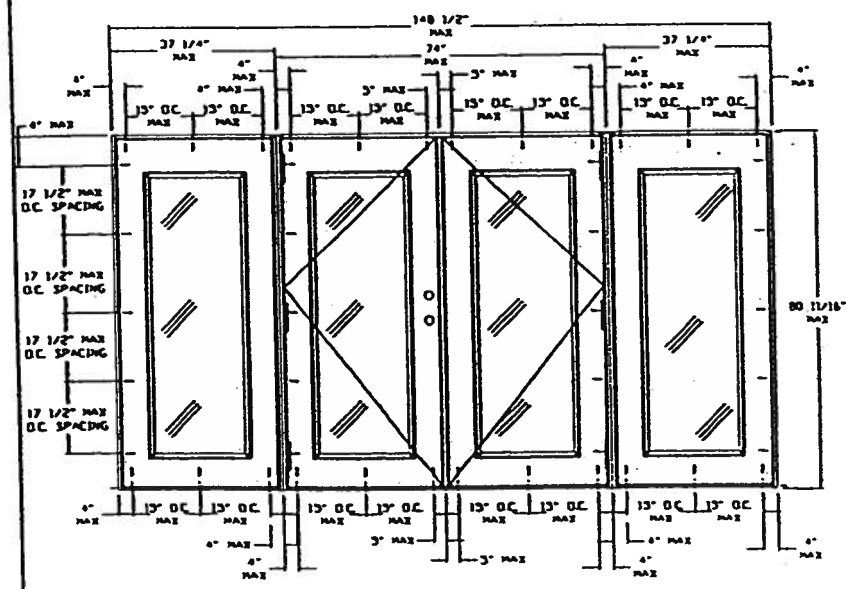
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S
ENGINEER:
DR BY R.S. | DATE 7-29-97
PART NAME: ENTERGY WOOD EDGE DOUBLE DOOR W/SIDELITES
MAT'L: | SCALE: N.T.S.

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1028-EW-0
SHEET 1 OF 6

REVISION LETTER C

OTHER DOOR CONFIGURATIONS



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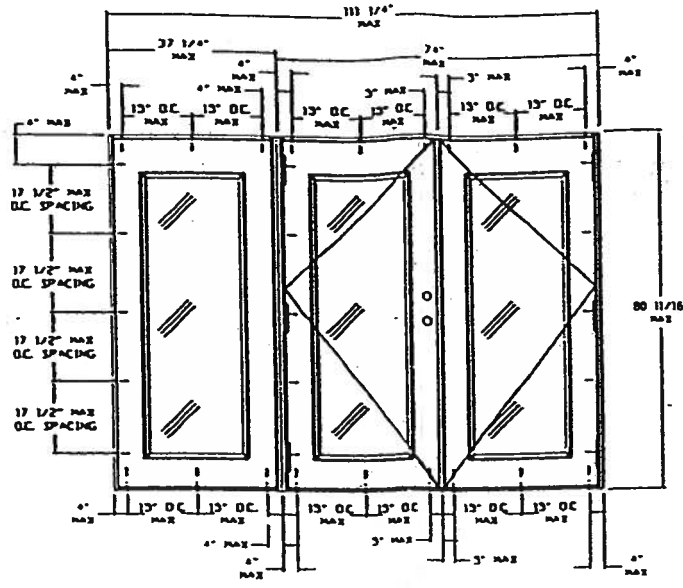

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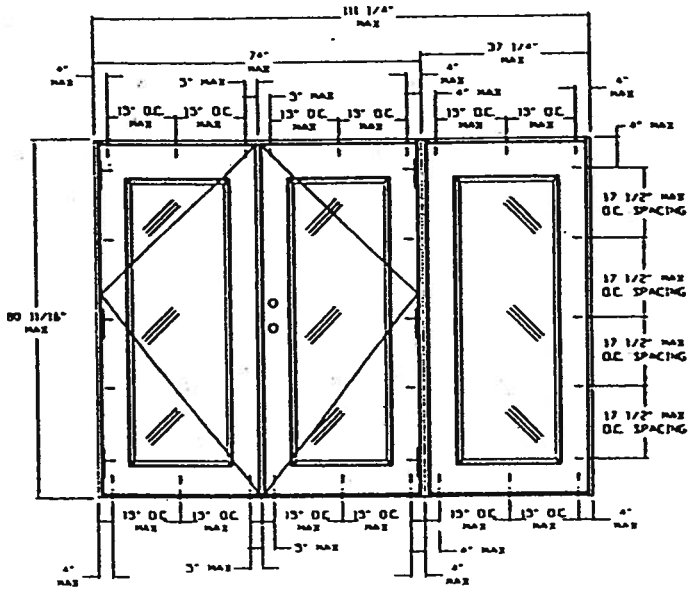

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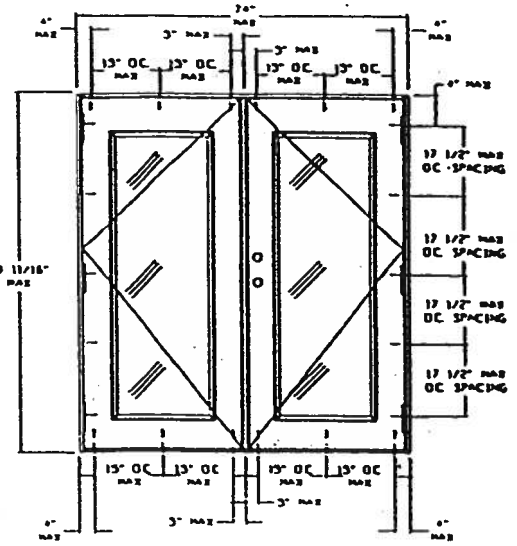

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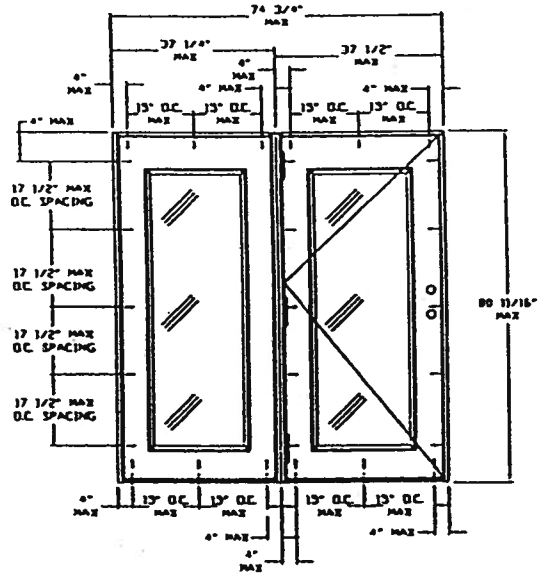

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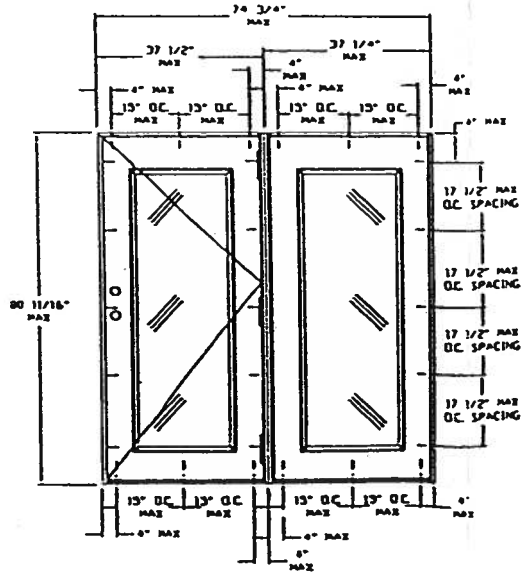

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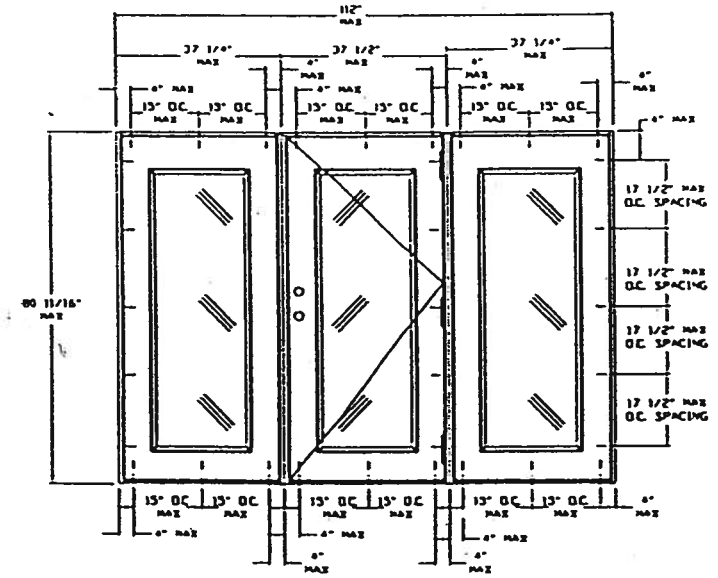

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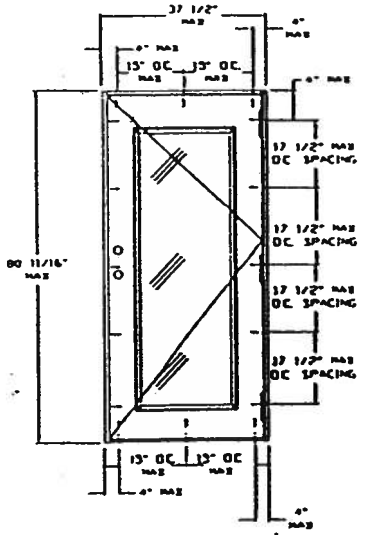


X

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

DR. BY J.D. | DATE 1-11-01

LTR.	REVISIONS	DATE	BY

PART NAME:

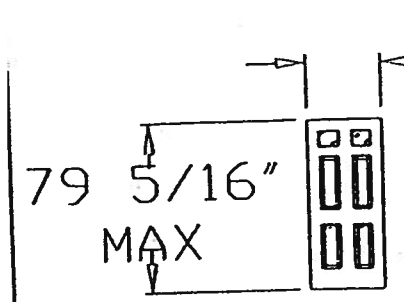
MAT'L: | SCALE:

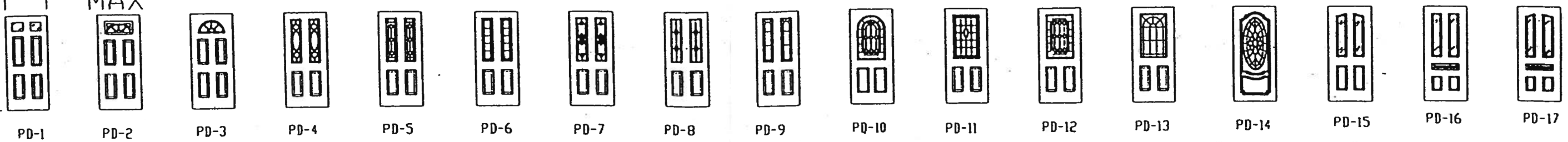
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

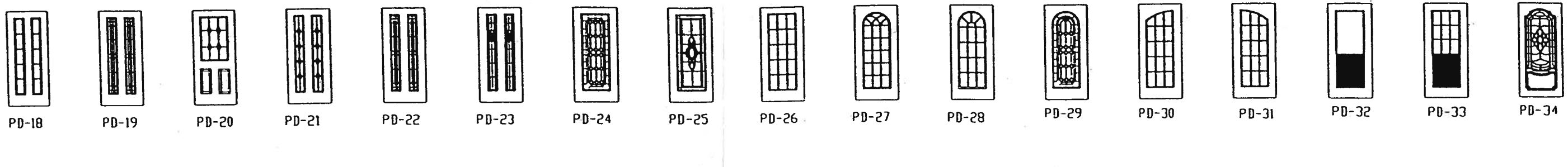
31-1028-EW-0
SHEET 5 OF 6

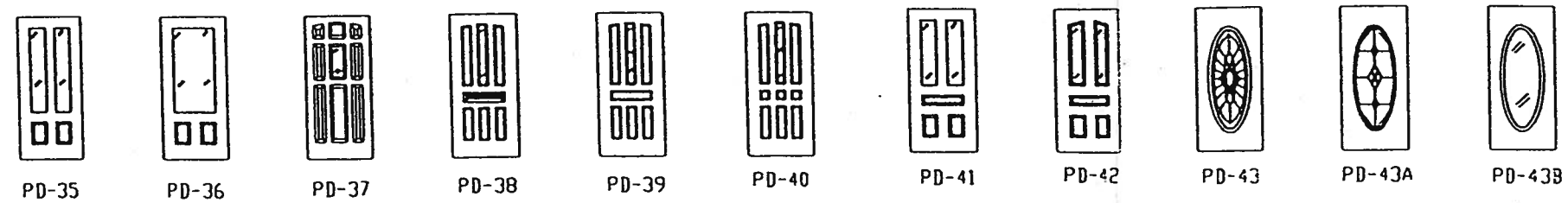
REVISION LETTER

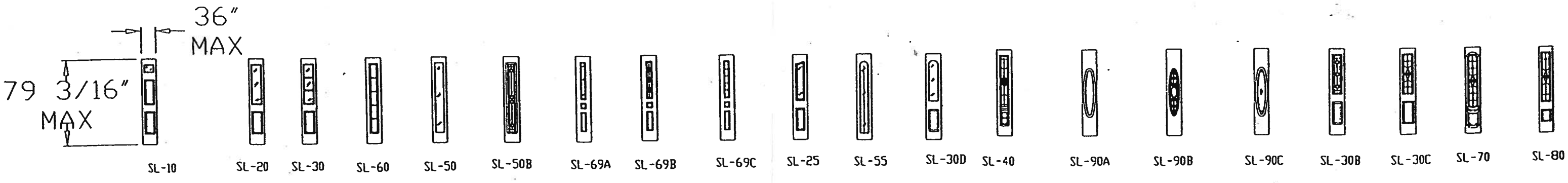
OTHER GLAZED DOOR PANEL/SIDELITE STYLES W/SURFACE APPLIED MUNTINS











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BUILDING CODE COMPLIANCE OFFICE
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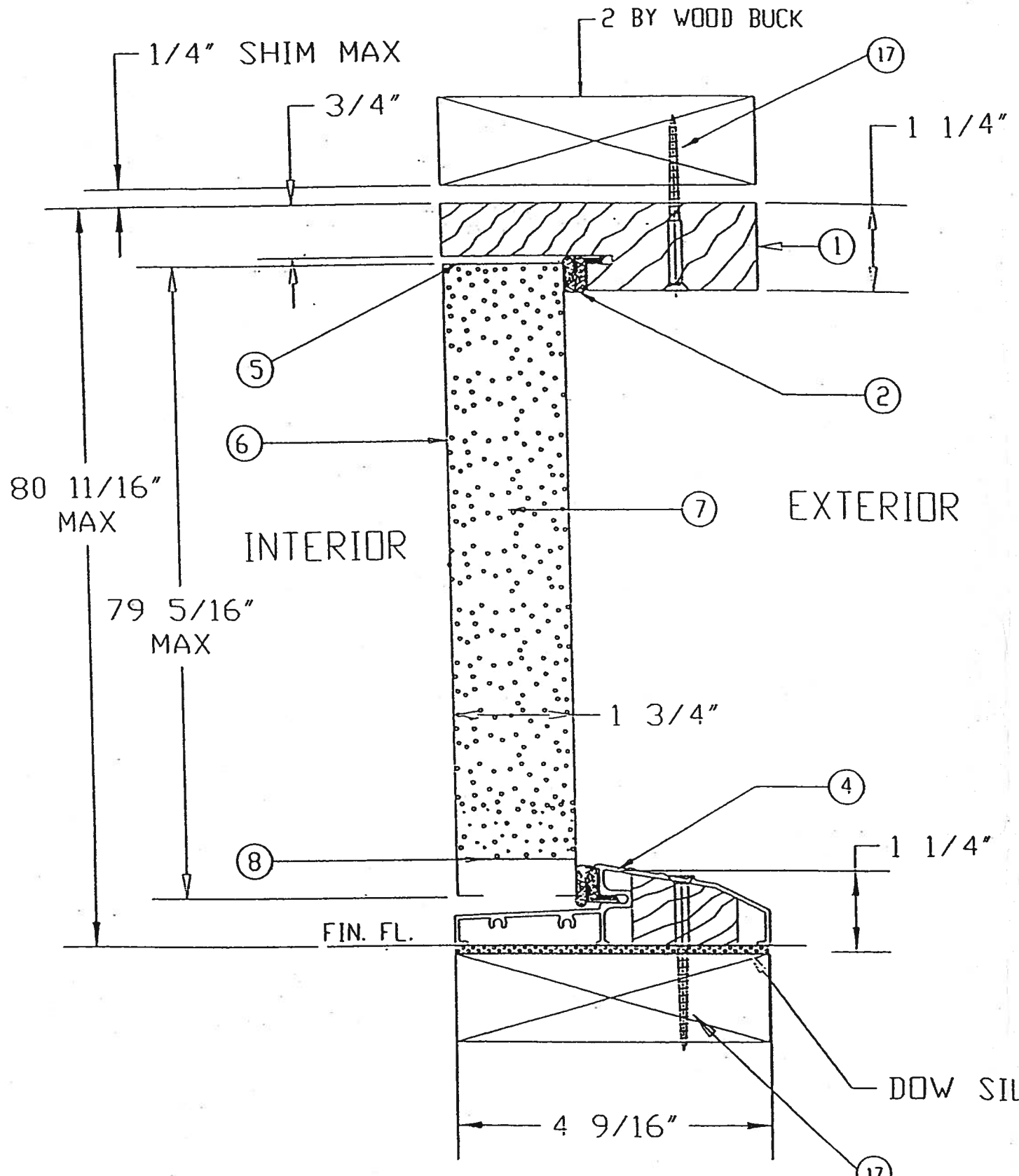
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :			
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.			
ENGINEER:	LTR	REVISIONS	DATE / BY
	PART NAME: PREMDOR DOOR OPTIONS		
DR. BY J.D. / DATE 1/15/01	MAT'L:	SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1028-EW-0
SHEET 6 OF 6
REVISION LETTER



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN. YIELD STRENGTH 33,000 PSI MIN. THICKNESS PER TENSILE TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TO MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB (6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	NOT USED ON THIS MODEL		
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL- 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND N TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND TR

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
DR. BY R.S. | DATE 7-29-97

LTR.	REVISIONS	DATE	BY
B	DADE COUNTY MODIFICATIONS	1/11/01	JD
A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS

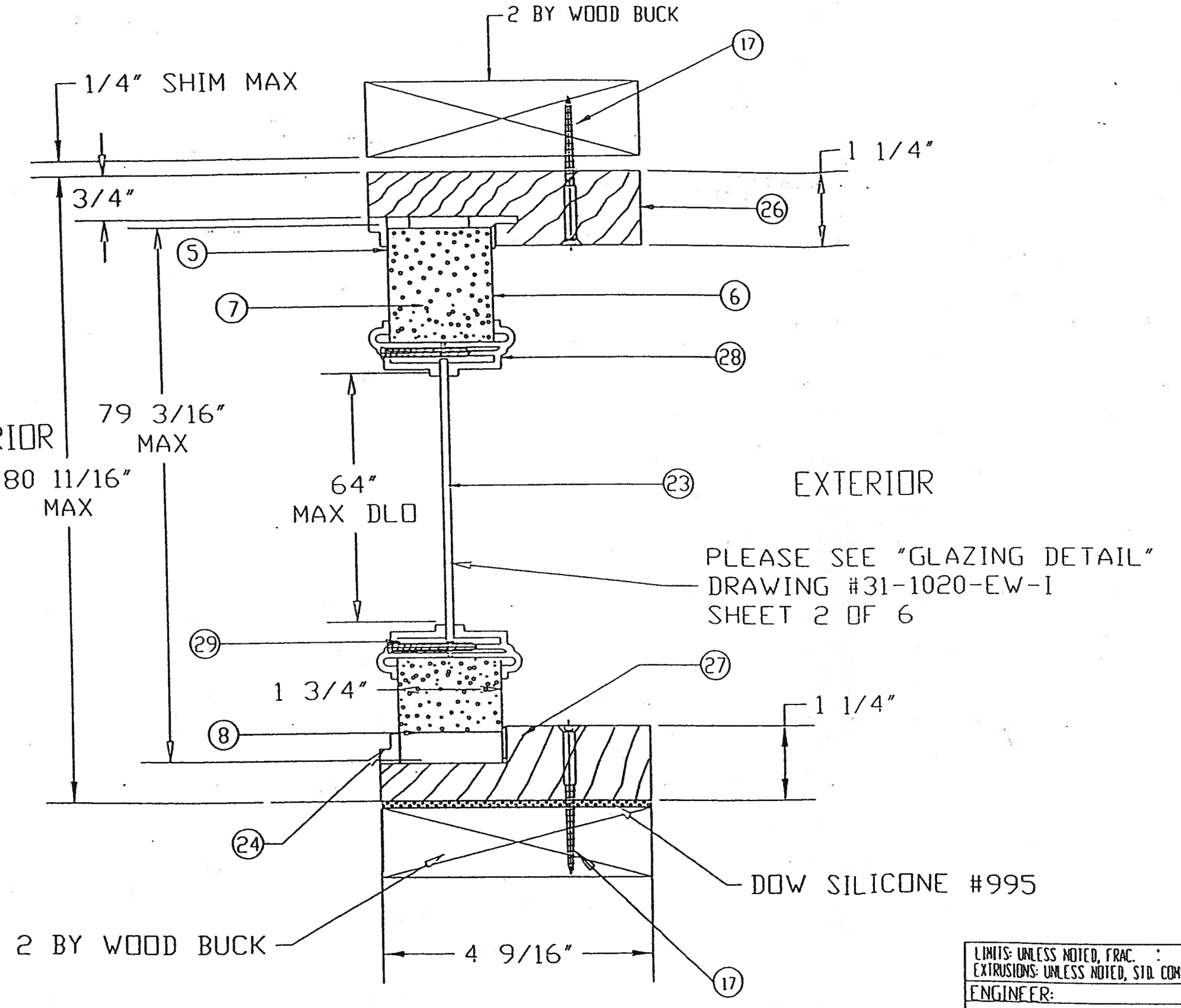
PART NAME: ENTERGY WOOD EDGE DOOR (B-B)
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-I
SHEET 3 OF 6

REVISION LETTER B



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LTR.	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

DR. BY R.S. | DATE 7-29-97

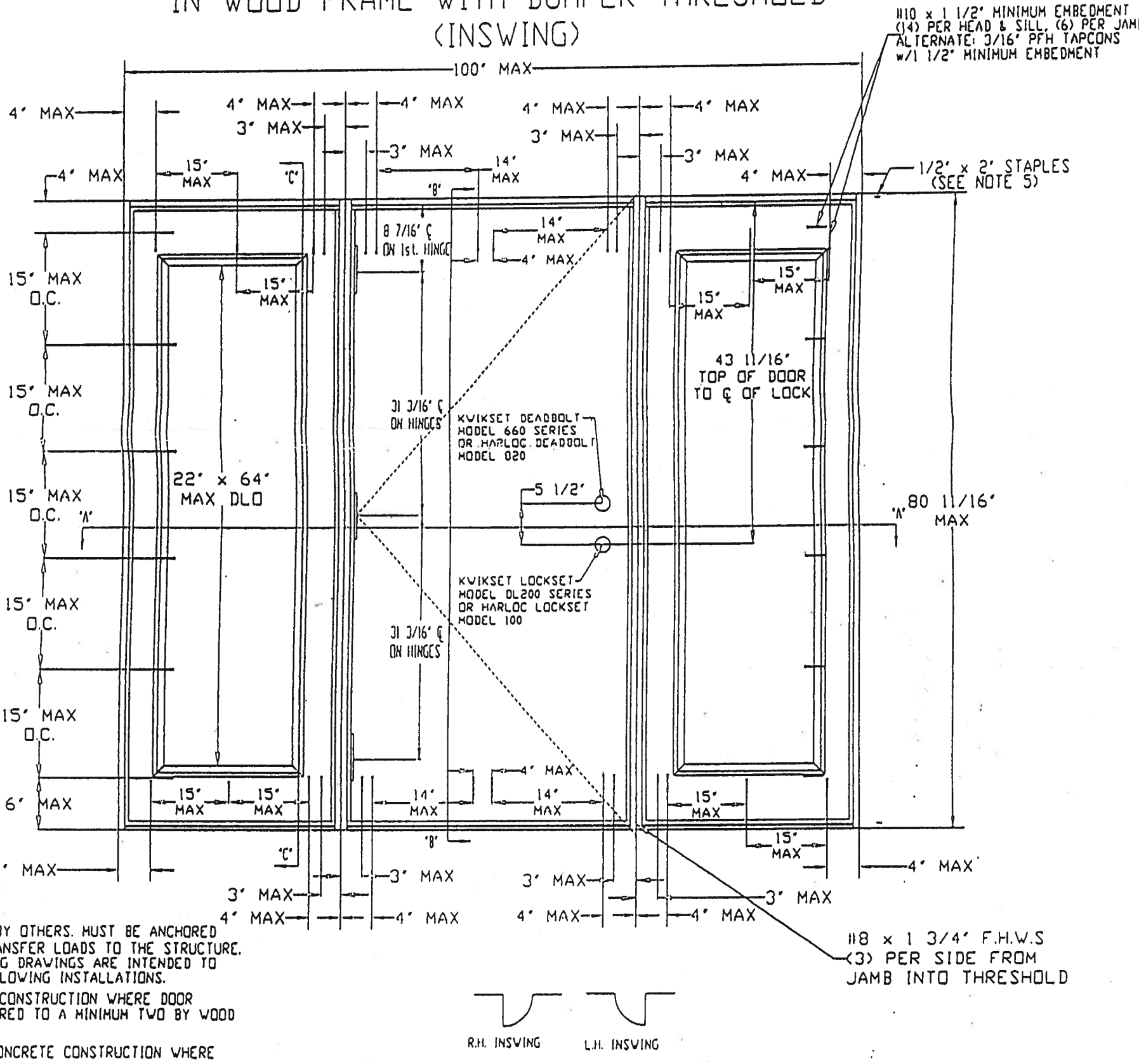
PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-I
SHEET 4 OF 6

REVISION LETTER D

PREMDOR (ENTERGY BRAND)
WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (INSWING)



R.H. INSWING L.H. INSWING

NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL LINE BY WOOD BUCK.

4. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.

5. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS

6. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB. INTO BASE ON SIDELITES.

7. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.

8. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.

9. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

10. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED *	+67.0 psf
Negative	NOT APPROVED *	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
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BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	11/15/00	JD
B	ADD RATINGS & DC DRAWN	6-26-98	RS
A	ADD SCREWS FROM JAMB TO THOLD	11-11-97	RS
A	ADD NOTE 4 FOR STAPLES	11-11-97	RS

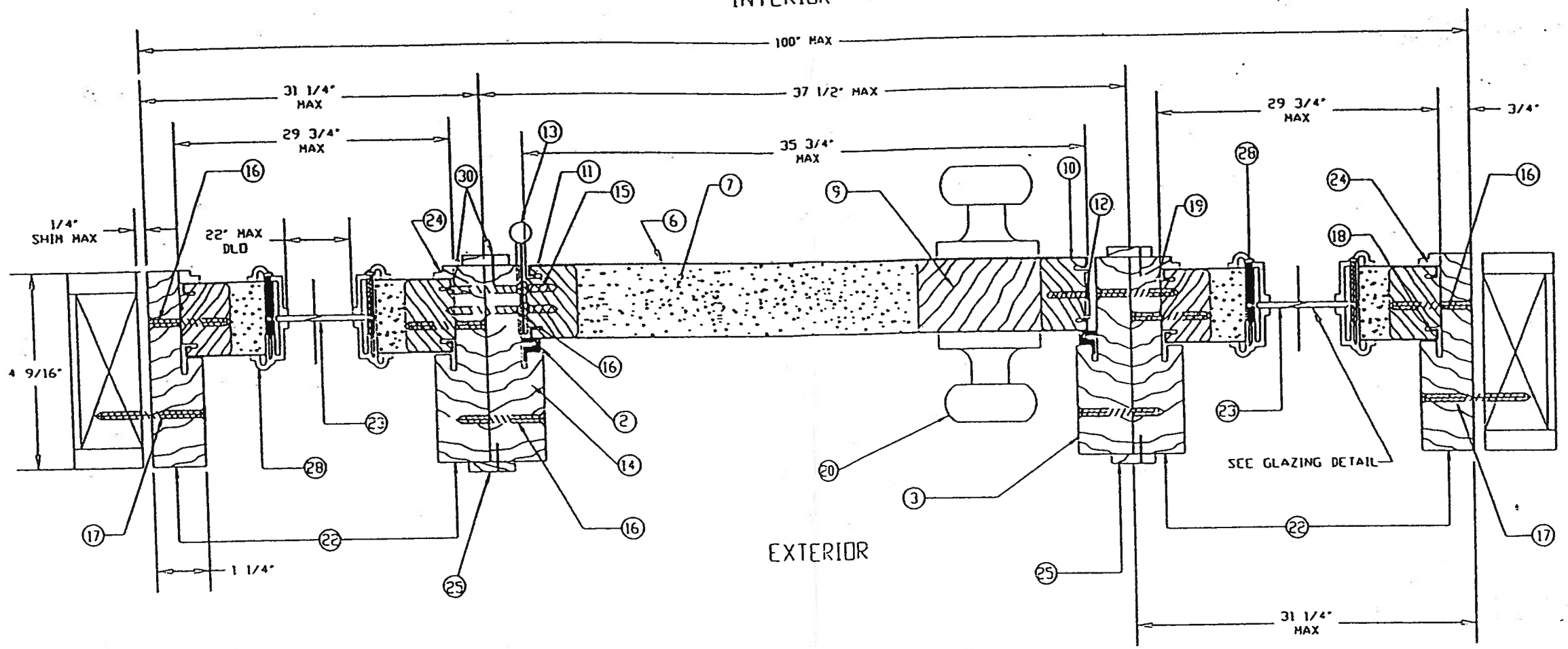
UNITS UNLESS NOTED, FRAC. ± DEC. ± ANG. ±
EXTRUSIONS UNLESS NOTED, SEE CONT. TOL'S
ENGINEER:
DR RS DATE 4-9-97
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE
MAT'L: SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, TX 75762

31-1020-EW-1
SHEET 1 OF 6

REVISION LETTER C

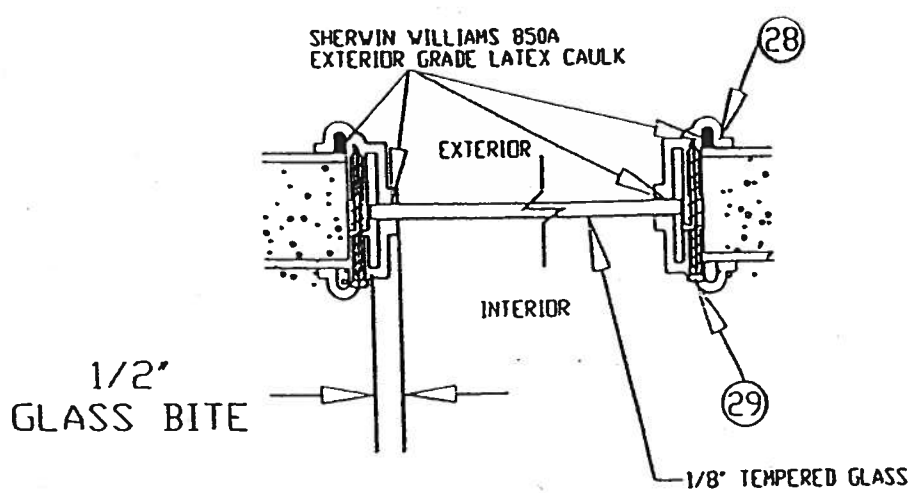
INTERIOR



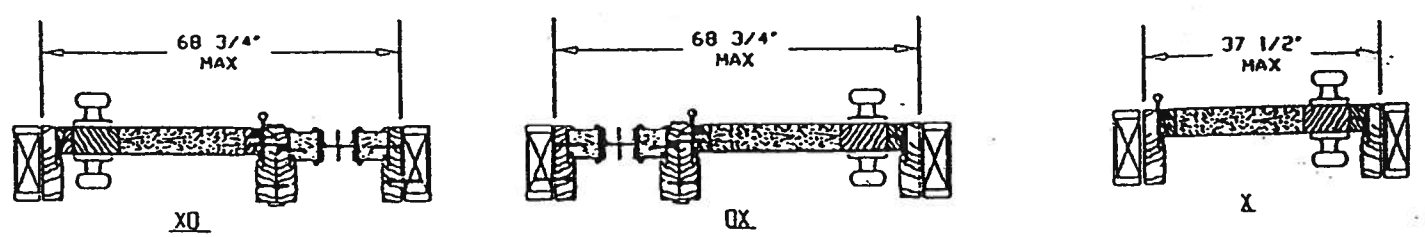
EXTERIOR

SECTION A-A
INSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO.

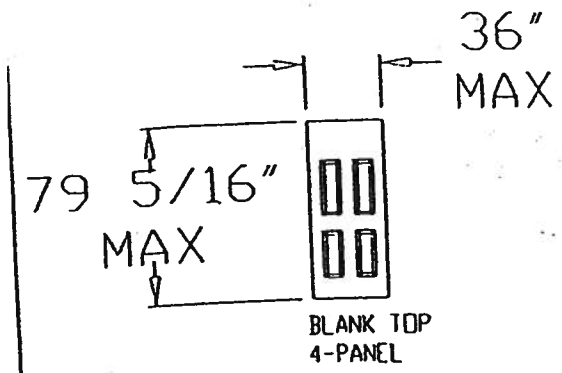
REV	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	6/15/01	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-3-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	7-10-97	RS

LOUIS UNLESS NOTED, FRAC : DEC : ANG :
EXTRUSIONS UNLESS NOTED, STD COMM. TOL'S
ENGINEER:
DR. BY R.S. DATE 7-29-97
PART NAME: ENERGY DOOR W/SIDELITES (A-2)
MATL: SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-1
SHEET 2 OF 6
REVISION LETTER C

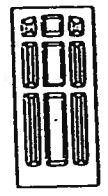
OTHER DOOR PANEL STYLES



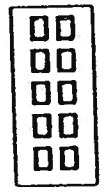
BLANK TOP 4-PANEL

6-PANEL

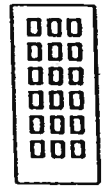
4-PANEL



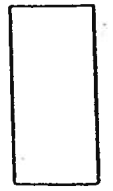
9-PANEL



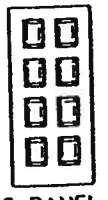
10-PANEL



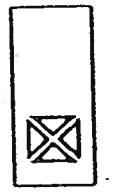
18-PANEL



FLUSH



8-PANEL



CROSSBUCK

12-PANEL

4-PANEL EYEBROW

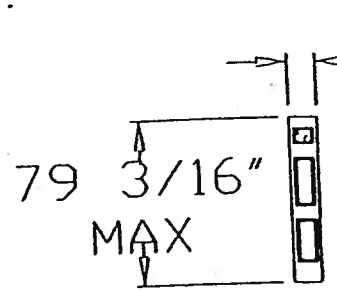
5-PANEL W/SCROLL

5-PANEL EYEBROW W/SCROLL

5-PANEL

5-PANEL EYEBROW

OTHER SIDELITE STYLES



SL-10

SL-20

SL-30

SL-60

SL-50

SL-50B

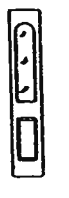
SL-69A

SL-69B

SL-69C

SL-25

SL-55



SL-30D

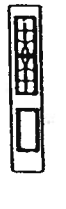
SL-40

SL-90A

SL-90B

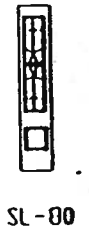
SL-90C

SL-30B



SL-30C

SL-70



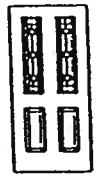
SL-80

PD-1

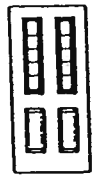
PD-2

PD-3

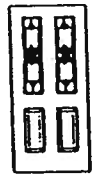
PD-4



PD-5



PD-6



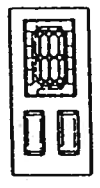
PD-7

PD-8

PD-9

PD-10

PD-11



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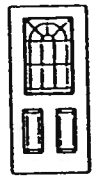


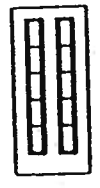
PD-13

PD-14

PD-15

PD-16

PD-17

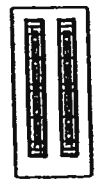


PD-18

PD-19

PD-20

PD-21



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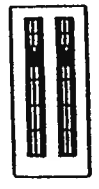

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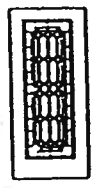
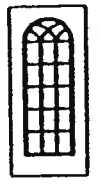


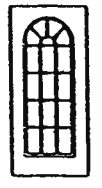
PD-24

PD-25

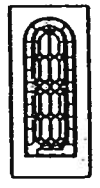
PD-26



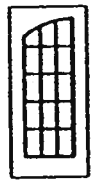
PD-27



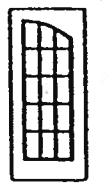
PD-28



PD-29



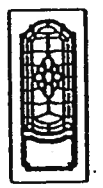
PD-30



PD-31

PD-32

PD-33



PD-34

PD-35

PD-36

PD-37

PD-38

PD-39

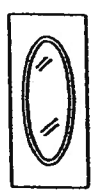
PD-40

PD-41

PD-42

PD-43

PD-43A



PD-43B

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: JUN 05 2001
BY: [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
DR. BY J.D. | DATE 1/15/01

LTR	REVISIONS	DATE	BY

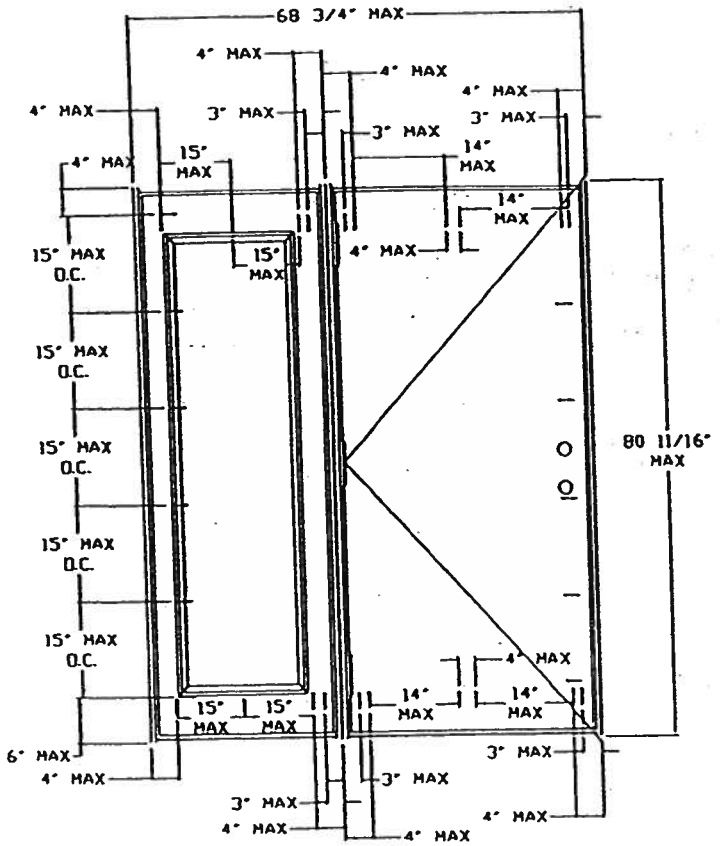
PART NAME: PREMDOR DOOR OPTIONS
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-1
SHEET 6 OF 6

REVISION LETTER

OTHER DOOR CONFIGURATIONS



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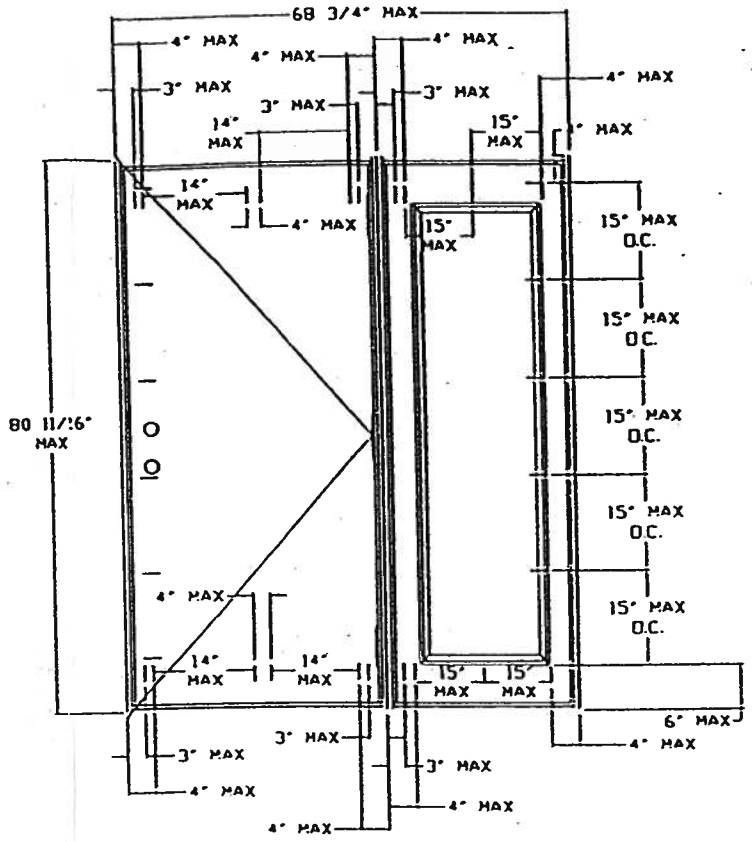

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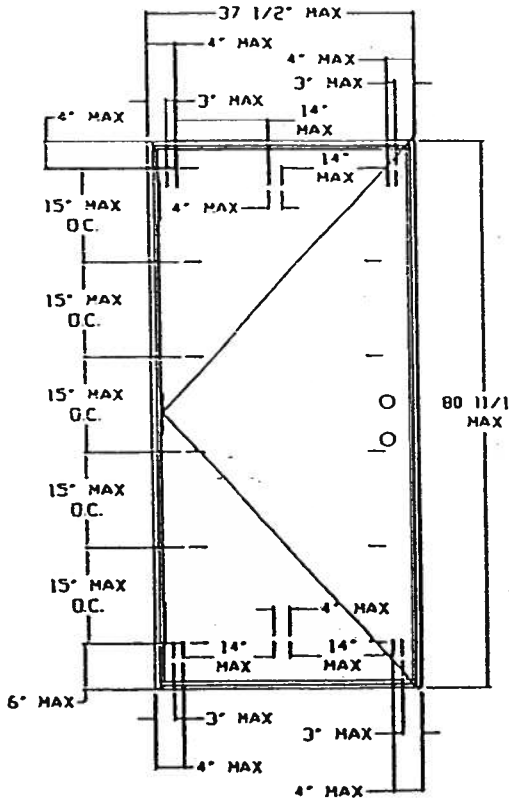

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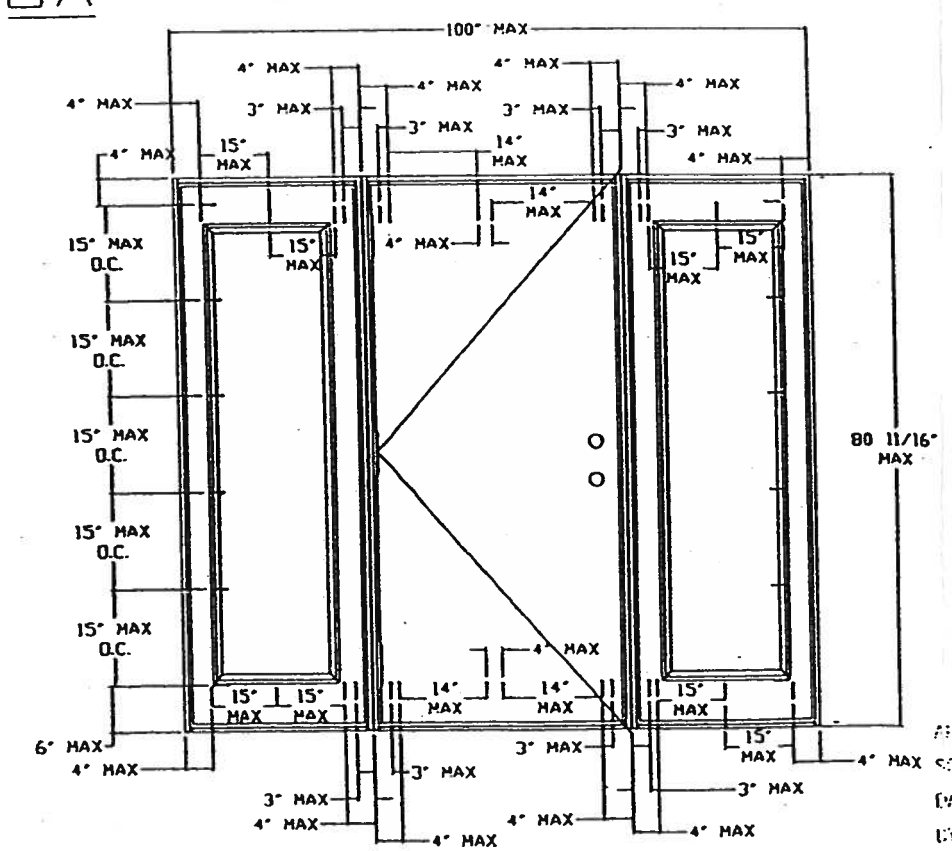

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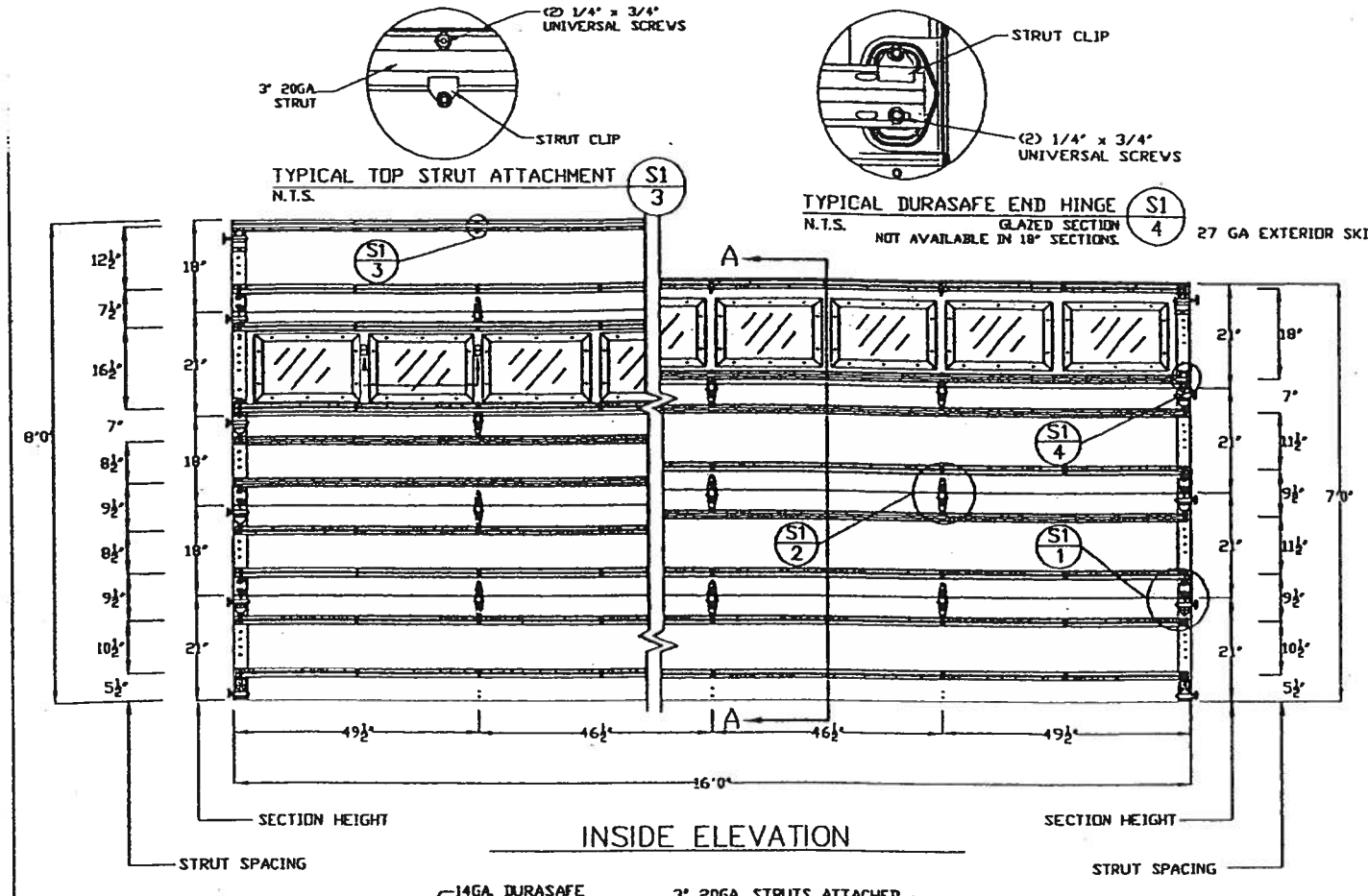
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0314.18

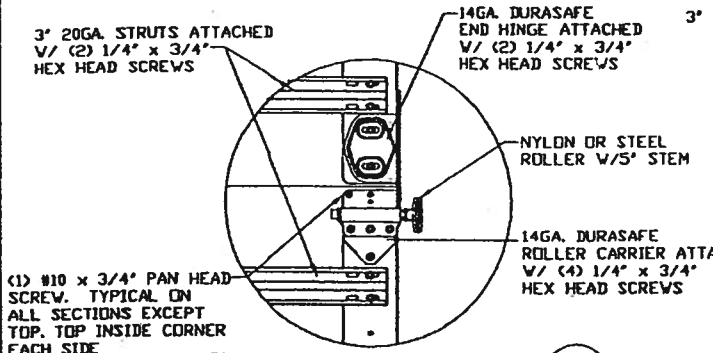
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COMM. TOL'S.			
ENGINEER:	LTR	REVISIONS	DATE BY
	PART NAME:		
DR. BY J.D. DATE 1-11-01	MAT'L:	SCALE:	

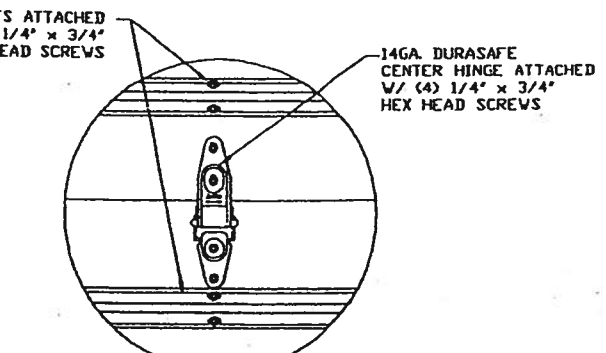
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

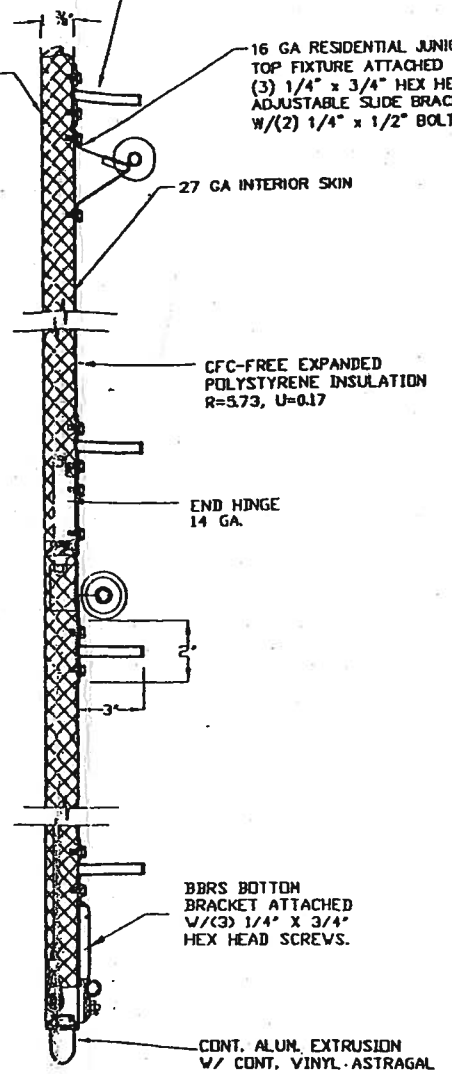
31-1020-EW-I
SHEET 5 OF 6

REVISION LETTER



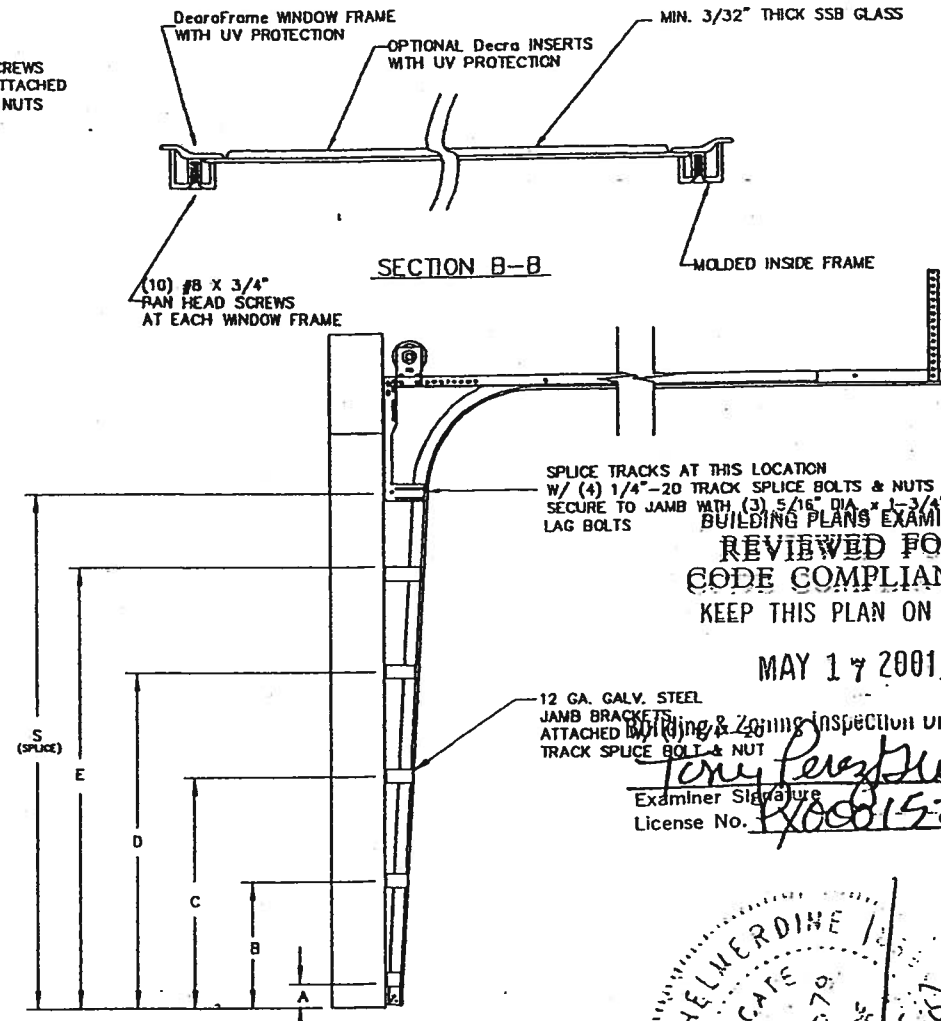






GLAZING OPTION CROSS SECTION

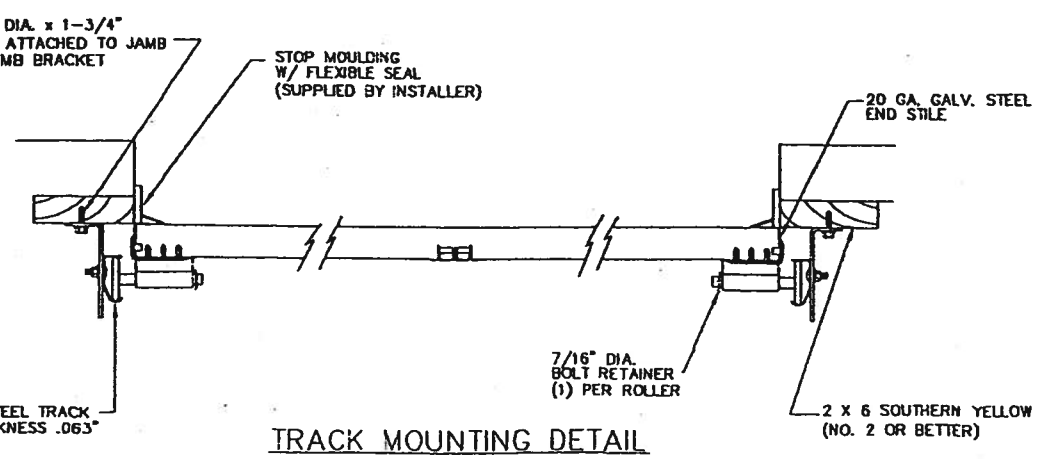
TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' X 7' AND 16' X 8' MODEL 1500-D DOORS.



TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"



WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 3,300 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.016") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (3) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (3) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTN E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1608 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15° MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C

BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div - Jax., FL.
Examiner Signature
License No. EX0001520

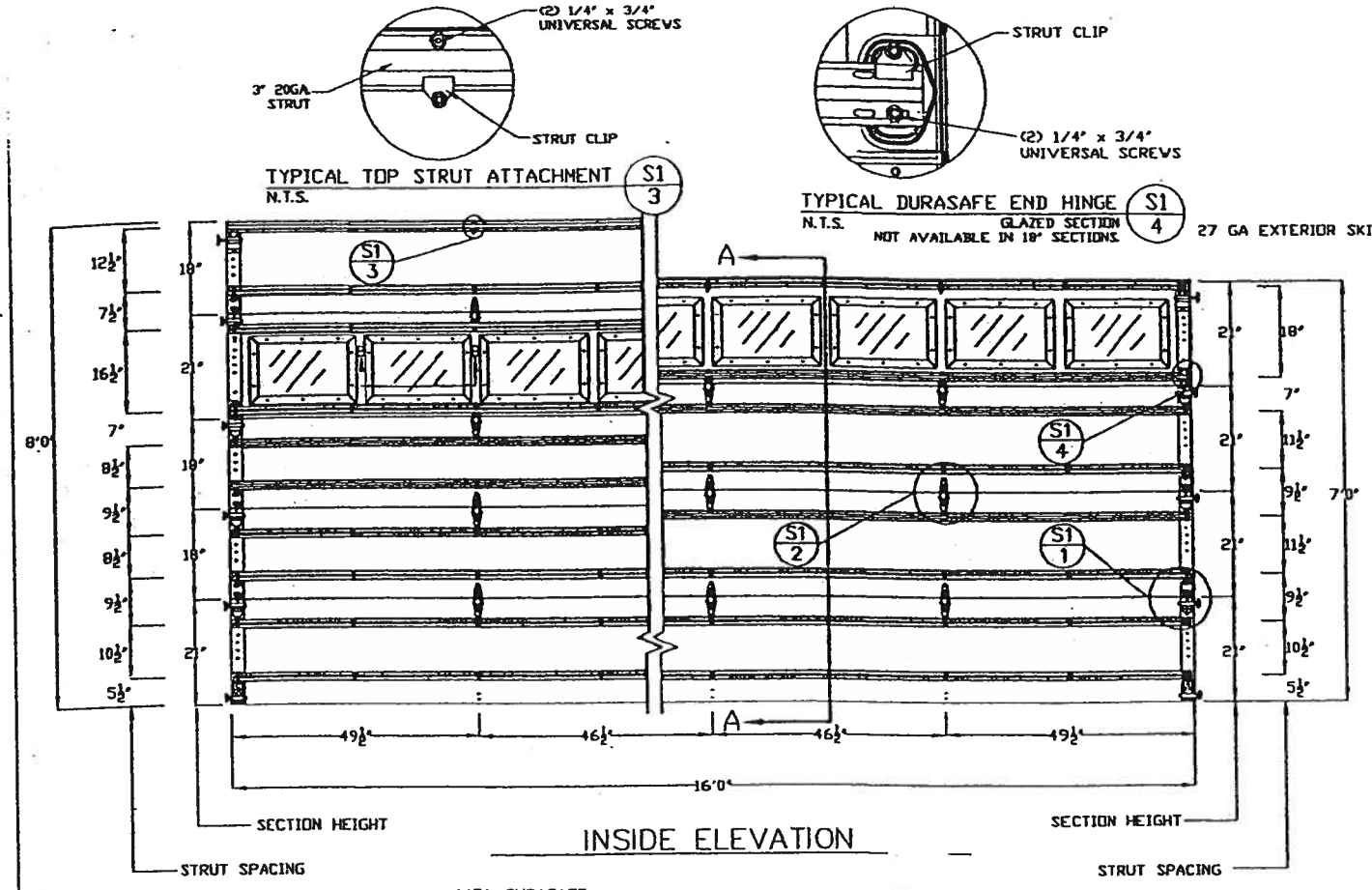
MAX SIZE	16' x 8'
DESIGN LOADS	+29.5 PSF -29.5 PSF
TEST LOADS	+49.3 PSF -49.3 PSF

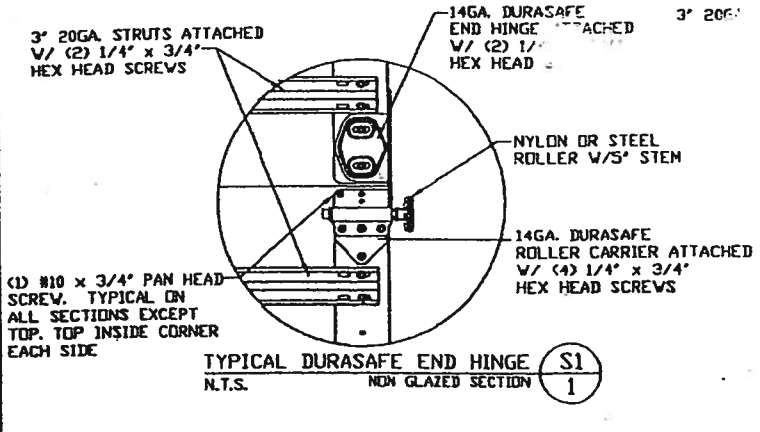
REV	DESCRIPTION OF REVISIONS	DATE	BY

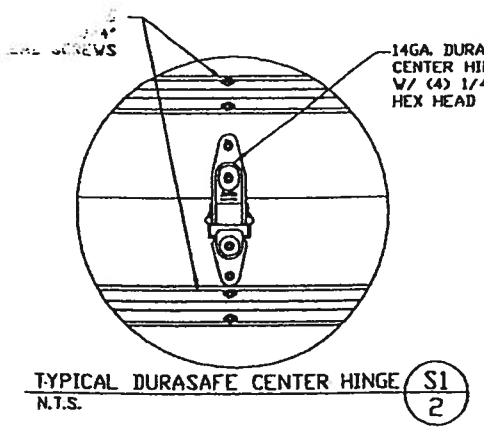
Amarr GARAGE DOORS
5921 GRASSY CREEK BLVD. WINSTON-SALEM, N.C. 27105

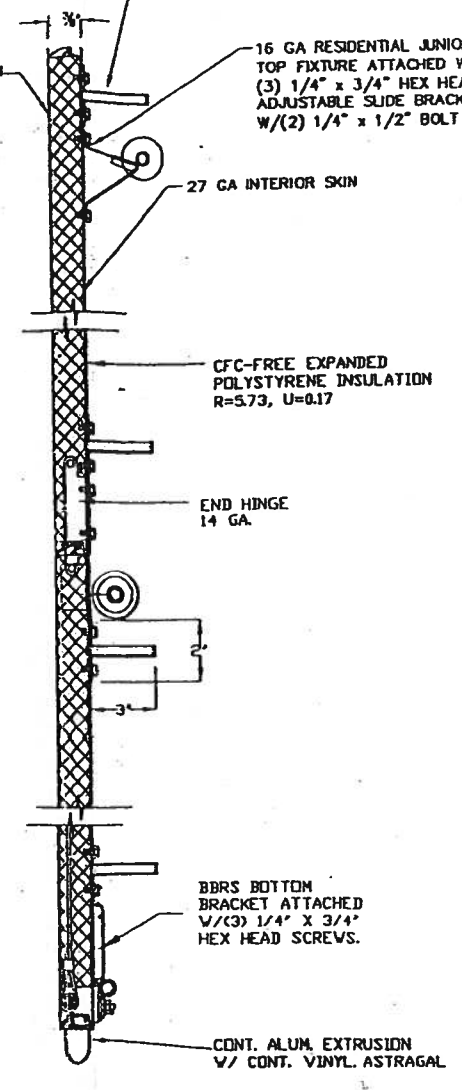
MODEL #1500 WeatherGuard

SIZE	DRAWN BY	DJ	DATE 04/18/01	DRAWING NUMBER
B	CHECKED BY		DATE	SBC-580-019-J
SCALE: NOT TO SCALE				SHEET 1 OF 1





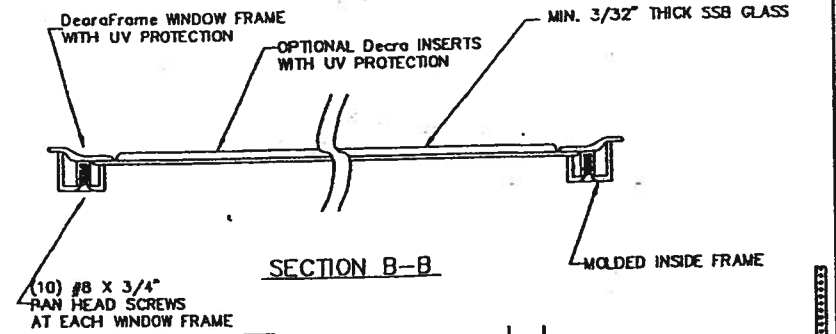




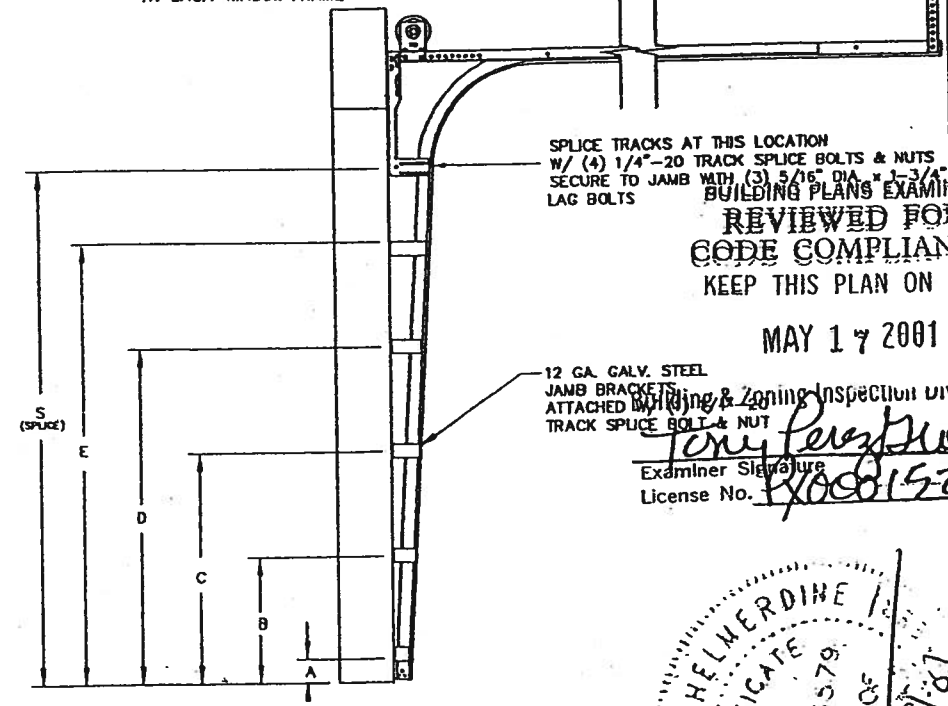
SECTION A-A (SIDE VIEW)

GLAZING OPTION CROSS SECTION

TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' X 7' AND 16' X 8' MODEL 1500-D DOORS.



SECTION B-B



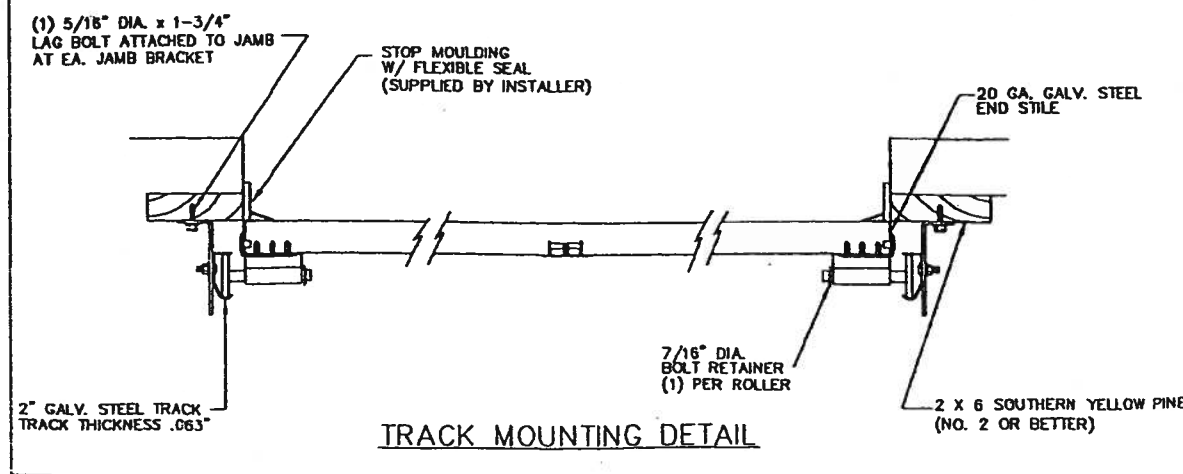
TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.018") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C



TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTIEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 8" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 8" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 8" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div. Jax., FL.
Examiner Signature
License No. R0081520

THOMAS L. SHELMERDINE
CERTIFICATE NO. 48579
STATE OF FLORIDA
REGISTERED

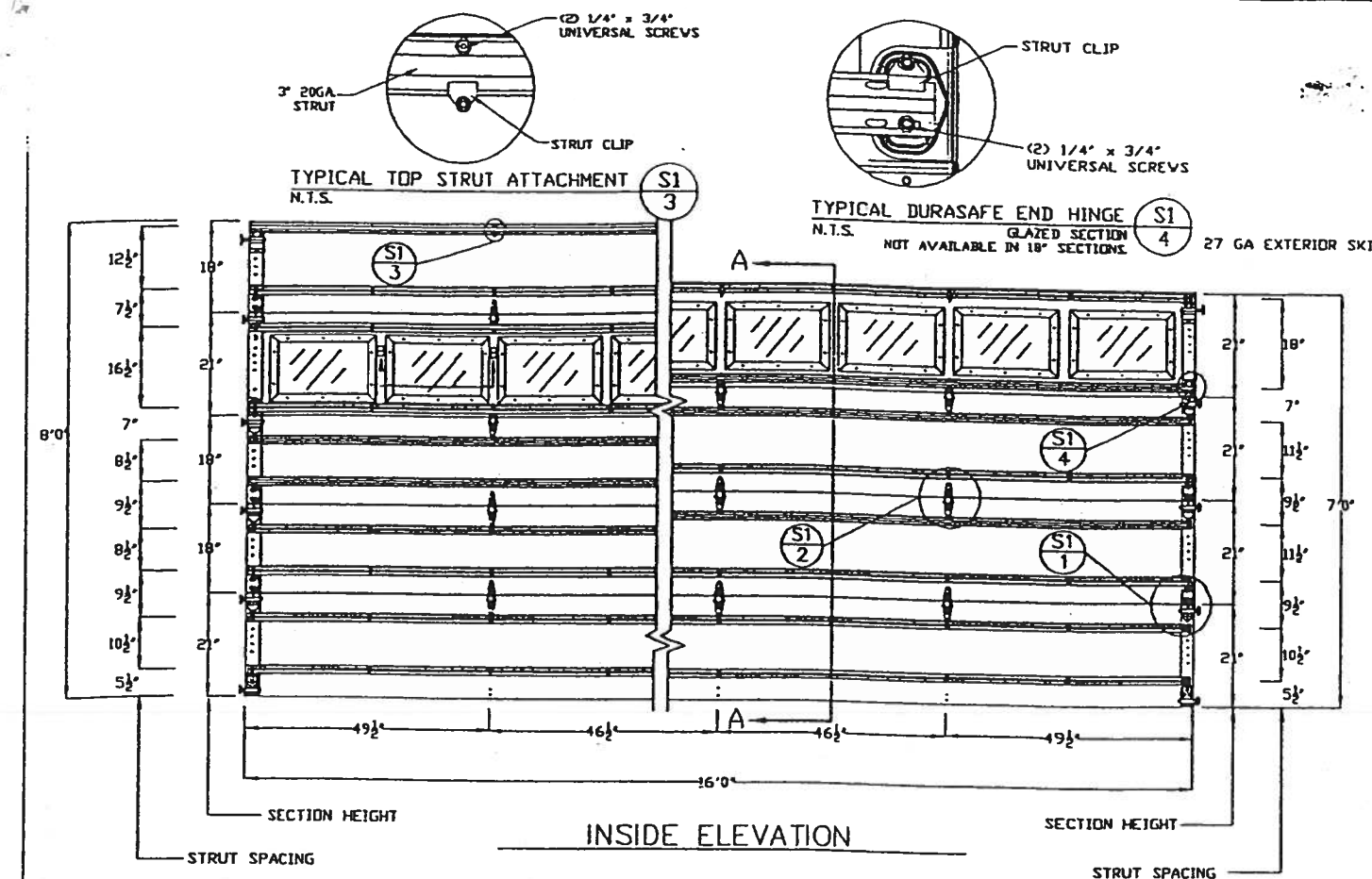
MAX SIZE	16' x 8'
DESIGN LOADS	+29.5 PSF -29.5 PSF
TEST LOADS	+49.3 PSF -49.3 PSF

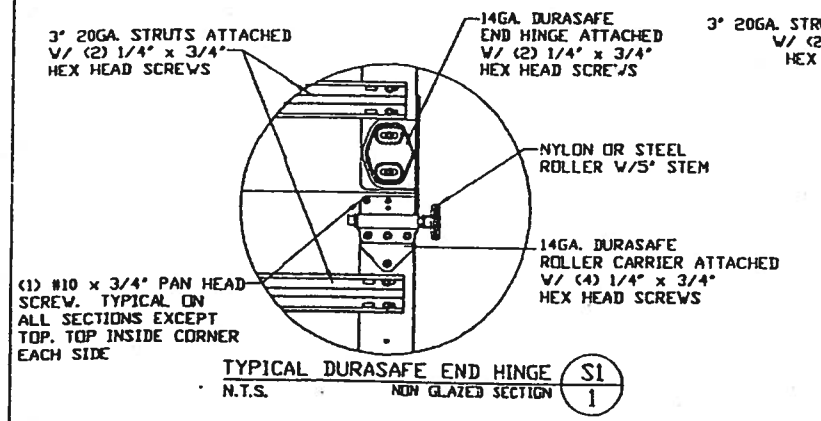
REV	DESCRIPTION OF REVISIONS	DATE	BY

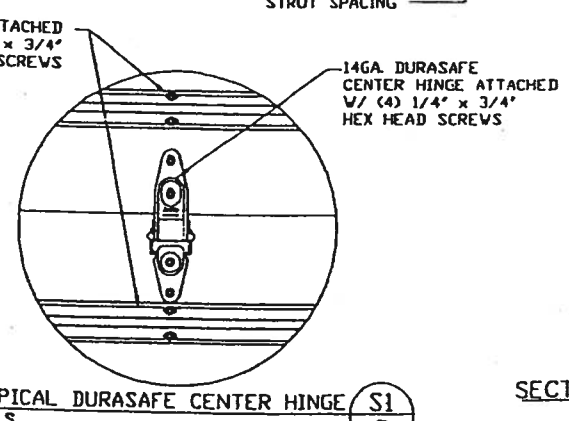
Amarr GARAGE DOORS
5503 GRATTY CREEK BLVD. WINSTON-SALEM, N.C. 27105

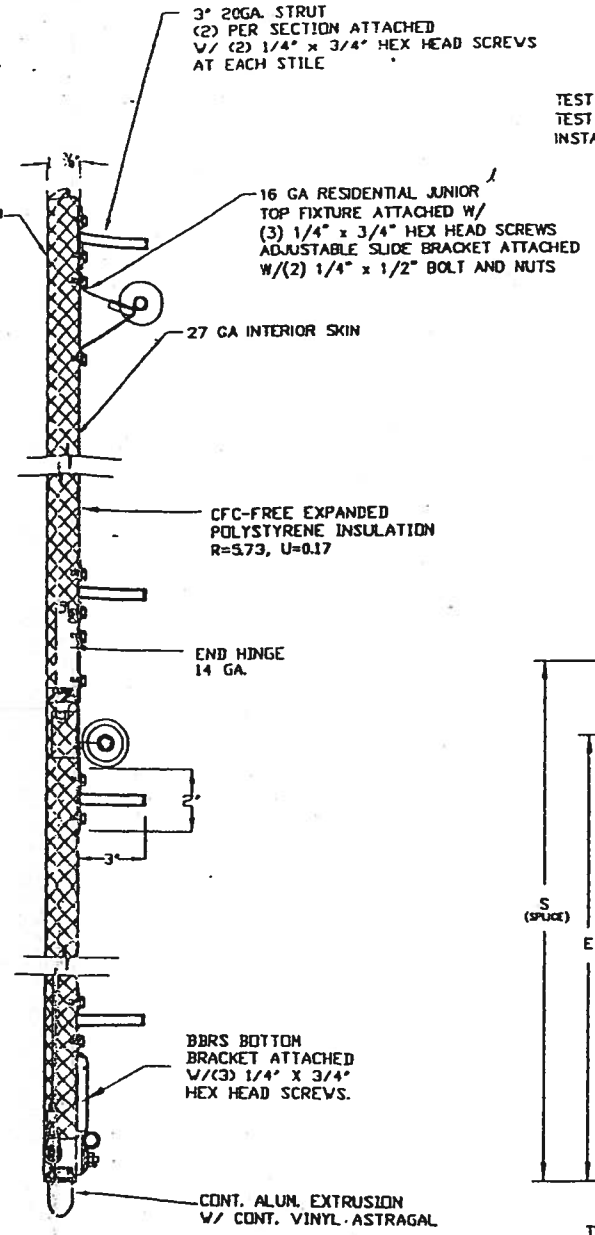
MODEL #1500 WeatherGuard

SIZE	DRAWN BY DJ	DATE 04/14/00	DRAWING NUMBER
B	CHECKED BY	DATE	SBC-580-019-J
SCALE: NOT TO SCALE			SHEET 1 OF 1









GLAZING OPTION CROSS SECTION

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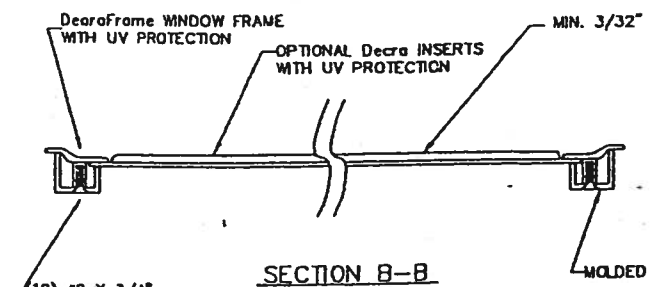
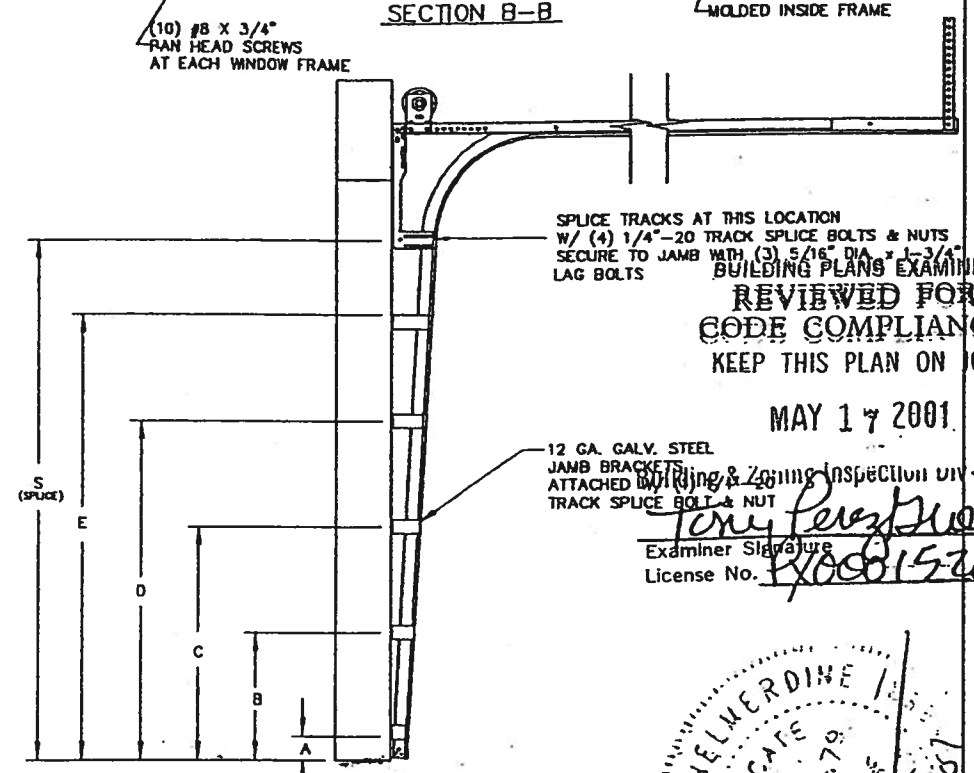


SECTION B-B



TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
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7'-6"	4"	18-1/2"	36"	54"	72"	82"
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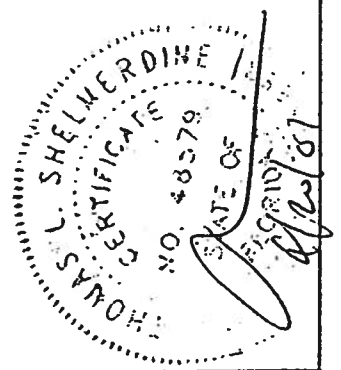
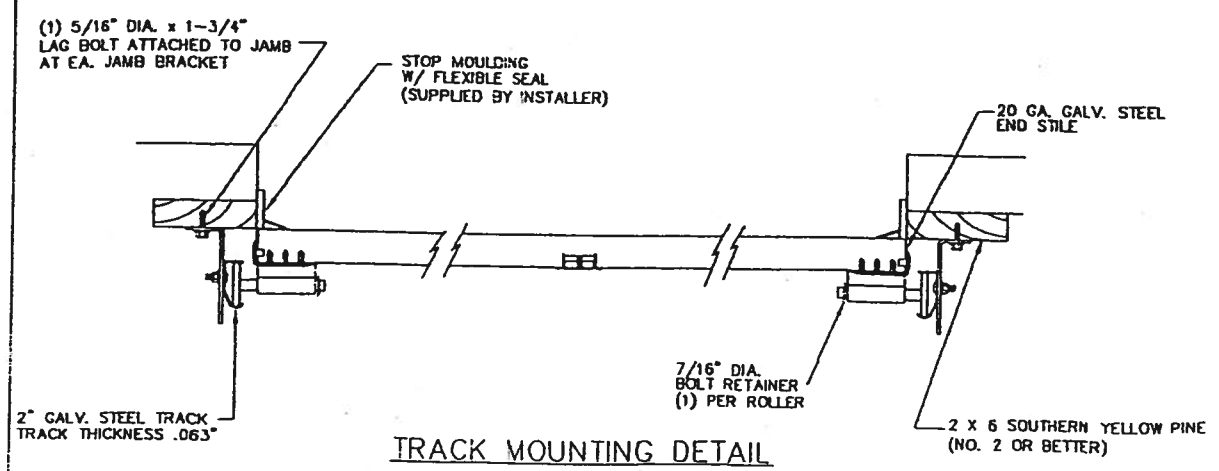
BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div - Jax., FL.
Examiner Signature
License No. RX0001520





TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,700 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

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*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.018") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1608 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C

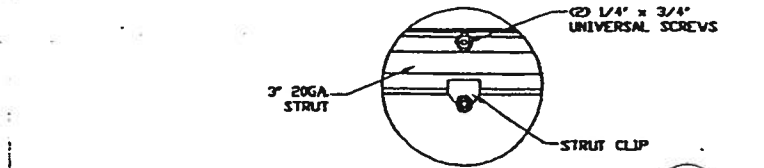
MAX SIZE 16' x 8'
DESIGN LOADS +29.5 PSF -29.5 PSF
TEST LOADS +49.3 PSF -49.3 PSF

REV	DESCRIPTION OF REVISIONS	DATE	BY

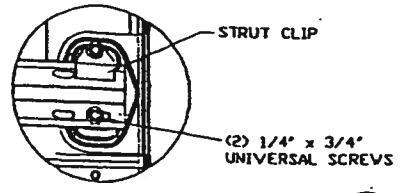
Amarr GARAGE DOORS
5909 GRASSY CREEK BLVD. WINSTON-SALEM, N.C. 27105

MODEL #1500 WeatherGuard

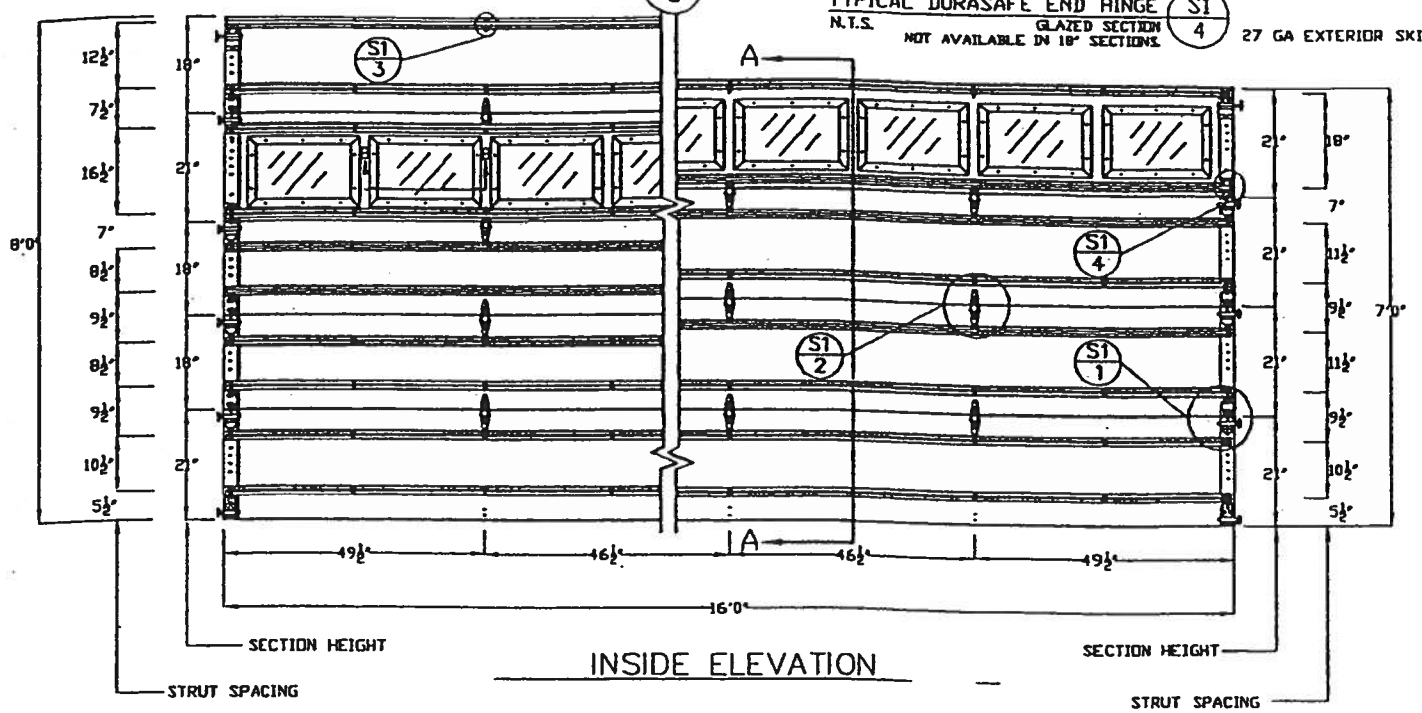
SIZE	DRAWN BY	CJJ	DATE	04/18/01	DRAWING NUMBER
B	CHECKED BY		DATE		SBC-580-019-J
SCALE: NOT TO SCALE					SHEET 1 OF 1



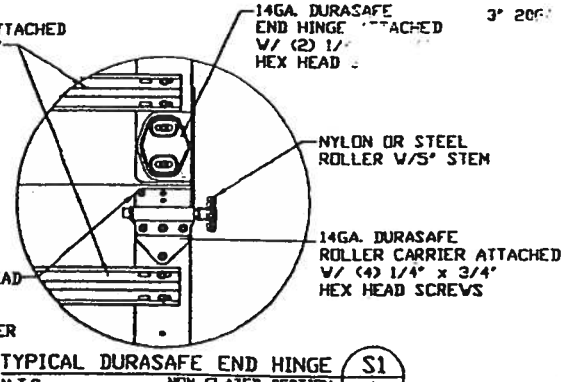
TYPICAL TOP STRUT ATTACHMENT (S1/3)
N.T.S.



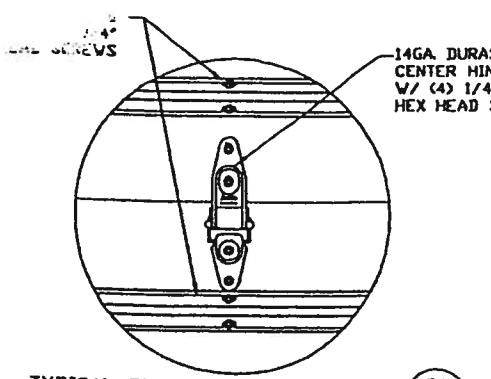
TYPICAL DURASAFE END HINGE (S1/4)
N.T.S. GLAZED SECTION
NOT AVAILABLE IN 18" SECTIONS.



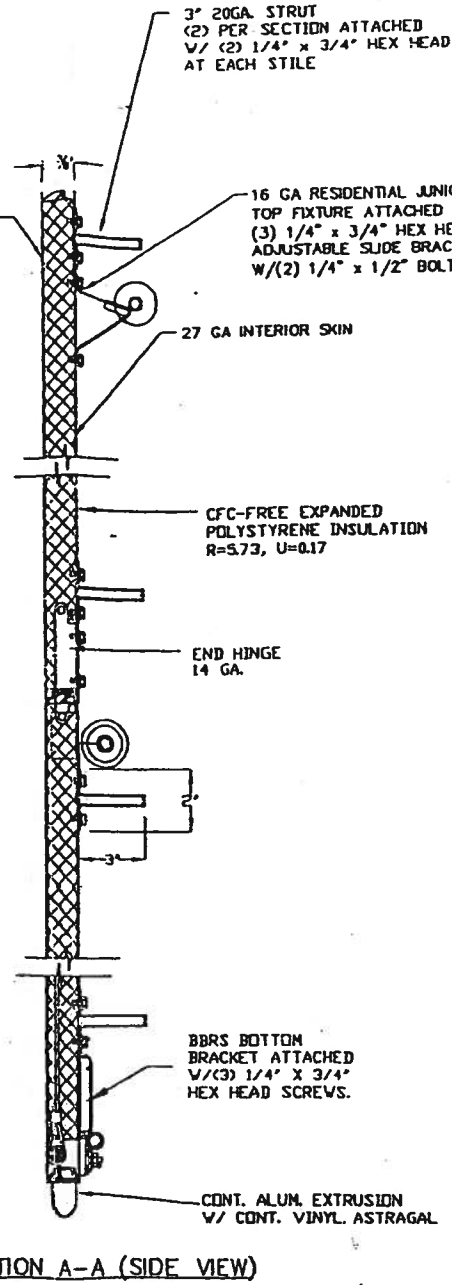
INSIDE ELEVATION



TYPICAL DURASAFE END HINGE (S1/1)
N.T.S. NON GLAZED SECTION



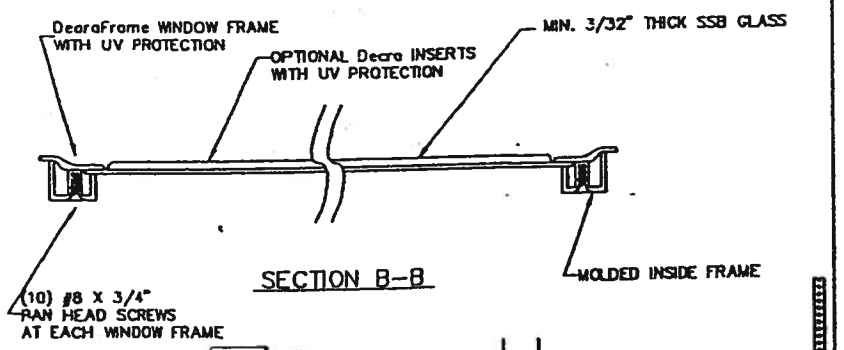
TYPICAL DURASAFE CENTER HINGE (S1/2)
N.T.S.



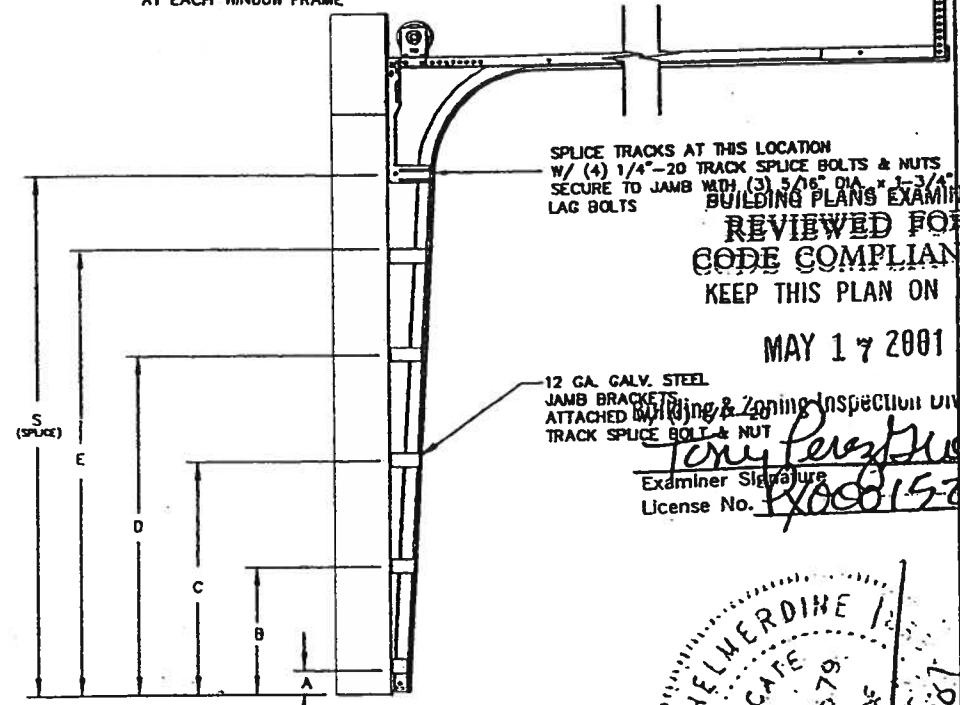
SECTION A-A (SIDE VIEW)

GLAZING OPTION CROSS SECTION

TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' X 7' AND 16' X 8' MODEL 1500-D DOORS.



SECTION B-B



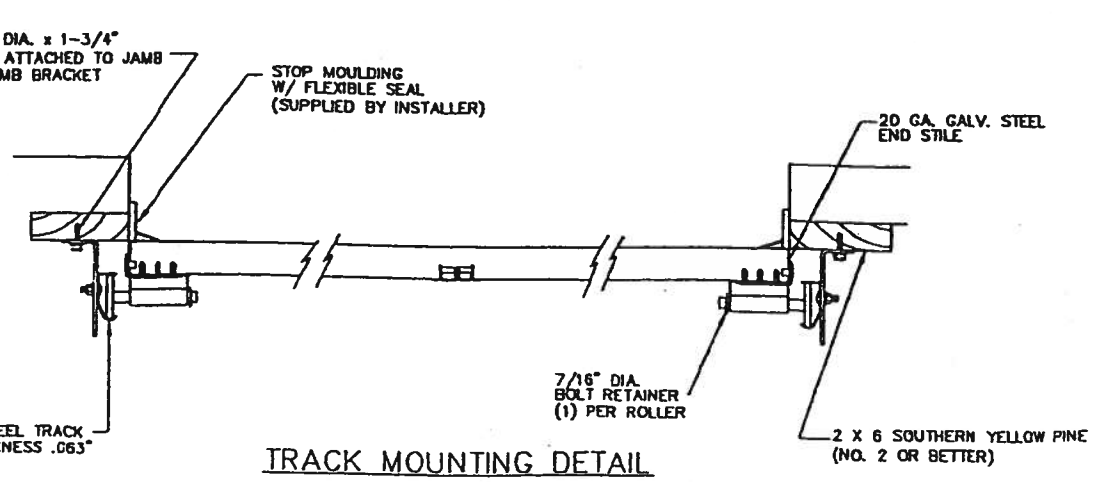
TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.018") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   - A. BASIC WIND SPEED OF 110 MPH
   - B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   - C. 15° MEAN ROOF HEIGHT AT ANY SLOPE
   - D. USE FACTOR OF 1.0
   - E. EXPOSURE RATING OF C



TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div. Jax., FL.
Examiner Signature
License No. R0081520

THOMAS L. SHELMERDINE II
CERTIFICATE NO. 48579
STATE OF FLORIDA

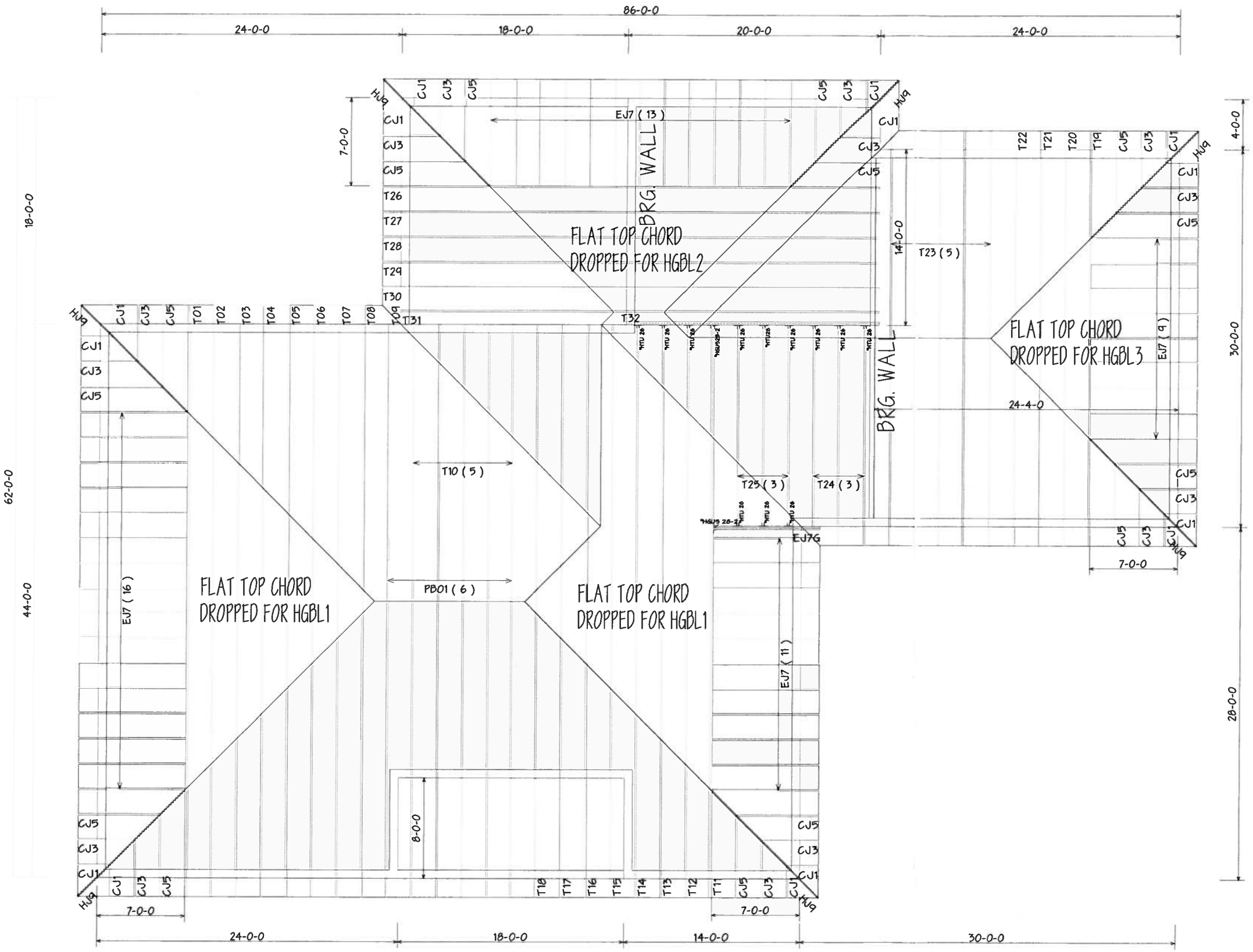
MAX SIZE	16' x 8'
DESIGN LOADS	+29.5 PSF -29.5 PSF
TEST LOADS	+49.3 PSF -49.3 PSF

REV	DESCRIPTION OF REVISIONS	DATE	BY

Amarr GARAGE DOORS
5909 GRAFTY CREEK BLVD. WINSTON-SALEM, N.C. 27105

MODEL #1500 WeatherGuard

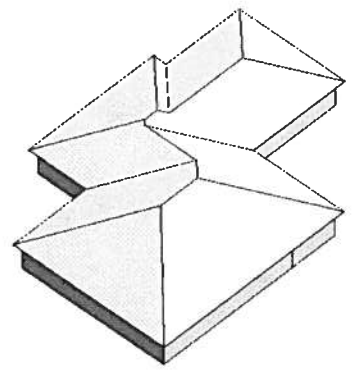
SIZE	DRAWN BY DJ	DATE 04/18/00	DRAWING NUMBER
B	CHECKED BY	DATE	SBC-580-019-J
SCALE: NOT TO SCALE			SHEET 1 OF 1



ROOF/FLOOR TRUSS HANGER LIST

Truss

Location	Manuf.	Product	Member
Girder : EJ7G			
1-0-12	User defined	*HTU 26	T25
3-0-12	User defined	*HTU 26	T25
5-0-12	User defined	*HTU 26	T25
Girder : T11			
27-10-8	User defined	*HGUS 28-2	EJ7G
Girder : T32			
0-11-4	User defined	*HTU 26	T14
2-11-4	User defined	*HTU 26	T13
4-11-4	User defined	*HTU 26	T12
6-10-8	User defined	*HGUS28-2	T11
8-11-4	User defined	*HTU 26	T25
10-11-4	User defined	*HTU26	T25
12-11-4	User defined	*HTU 26	T25
14-11-4	User defined	*HTU 26	T24
16-11-4	User defined	*HTU 26	T24
18-11-4	User defined	*HTU 26	T24



BEARING HEIGHT SCHEDULE

8'0"

6/12 PITCH

18" O.H.

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HUS26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date _____

Approved By: _____ Date _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

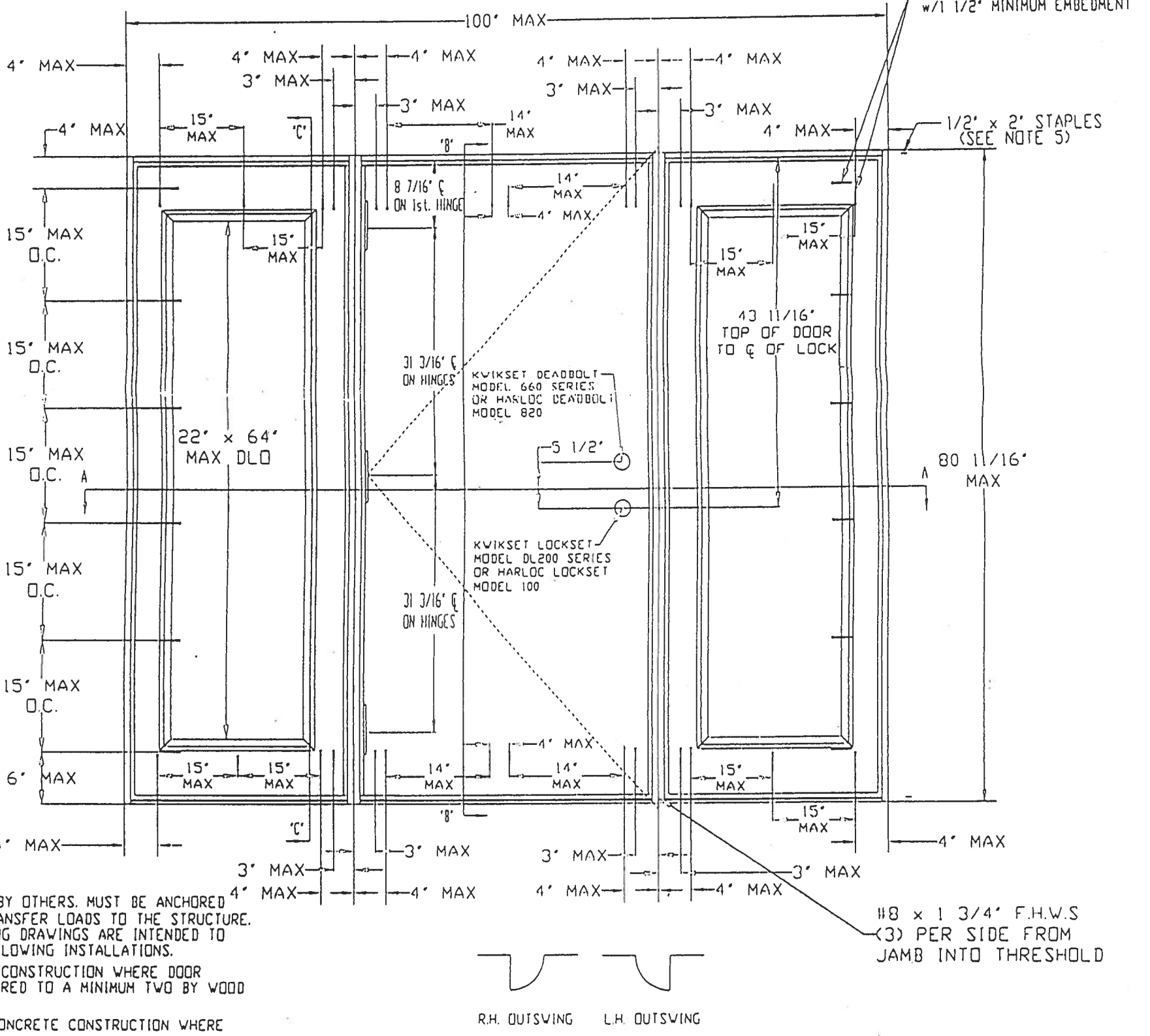
BUILDER: DON REED CONSTRUCTION

LEGAL ADDRESS: BASS RESIDENCE

MODEL: CUSTOM | REVISION:

DATE: 11/6/06 | DRAWN BY: JOE | SCALE: NTS | JOB #: L216492

PREMDOR (ENTERGY BRAND) WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (OUTSWING)



NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO BASE ON SIDELITES.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+55.0 psf	+55.0 psf
Negative	NOT APPROVED *	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

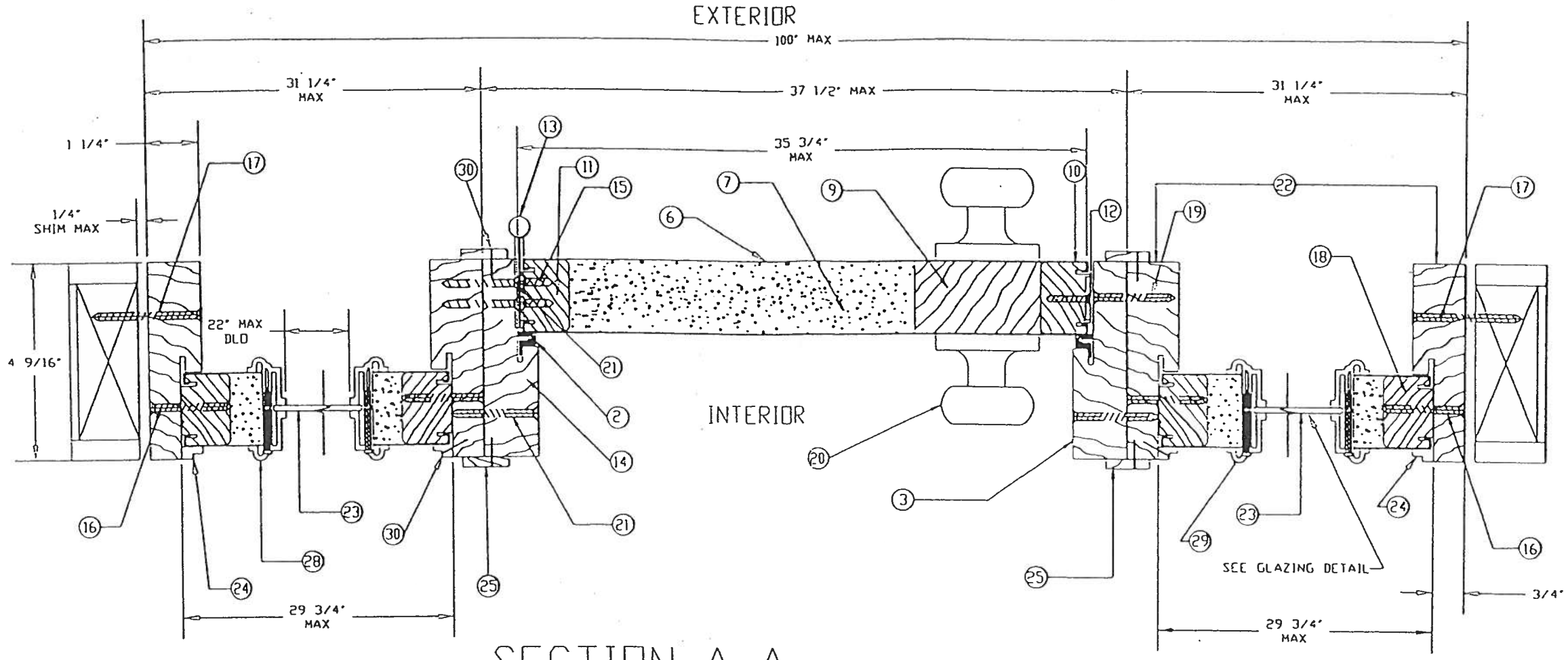
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/25/01	JD
B	ADD RATINGS & REDRAWN	8-24-98	RS
A	ADD SCREWS FROM JAMB TO THOLD	11-11-97	RS
A	ADD NOTE 4 FOR STAPLES	11-11-97	RS

UNITS UNLESS NOTED, FRAC : DEC : ANG :
EXTRUSIONS UNLESS NOTED, STD COM. TOL'S
ENGINEER:
DR BY R.S. DATE 4-9-97
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE
MATL: SCALE:

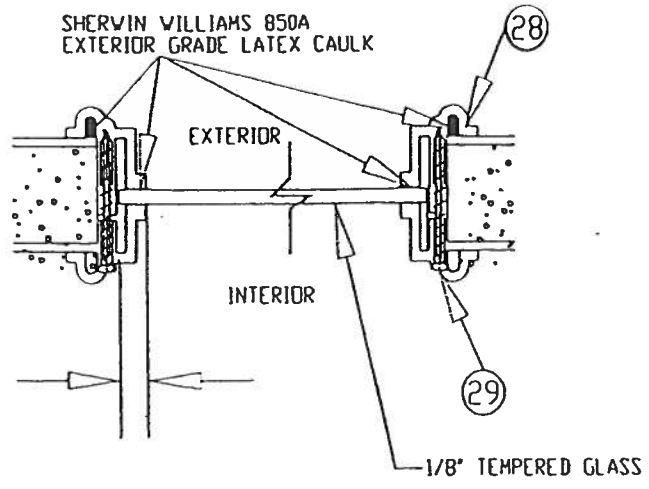
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-D
SHEET 1 OF 6

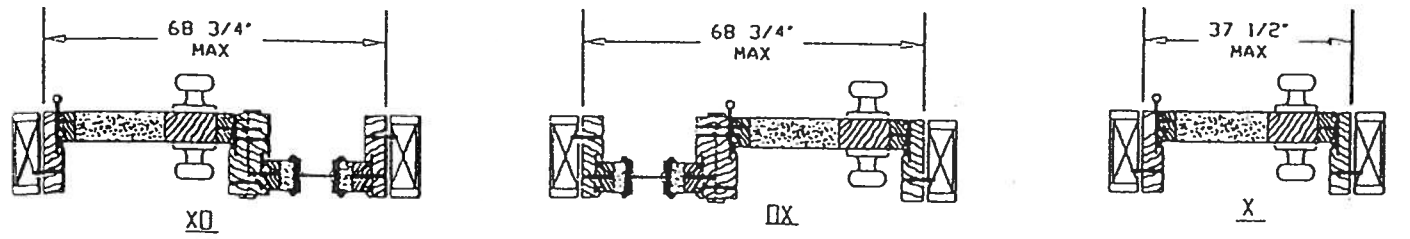


SECTION A-A
OUTSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



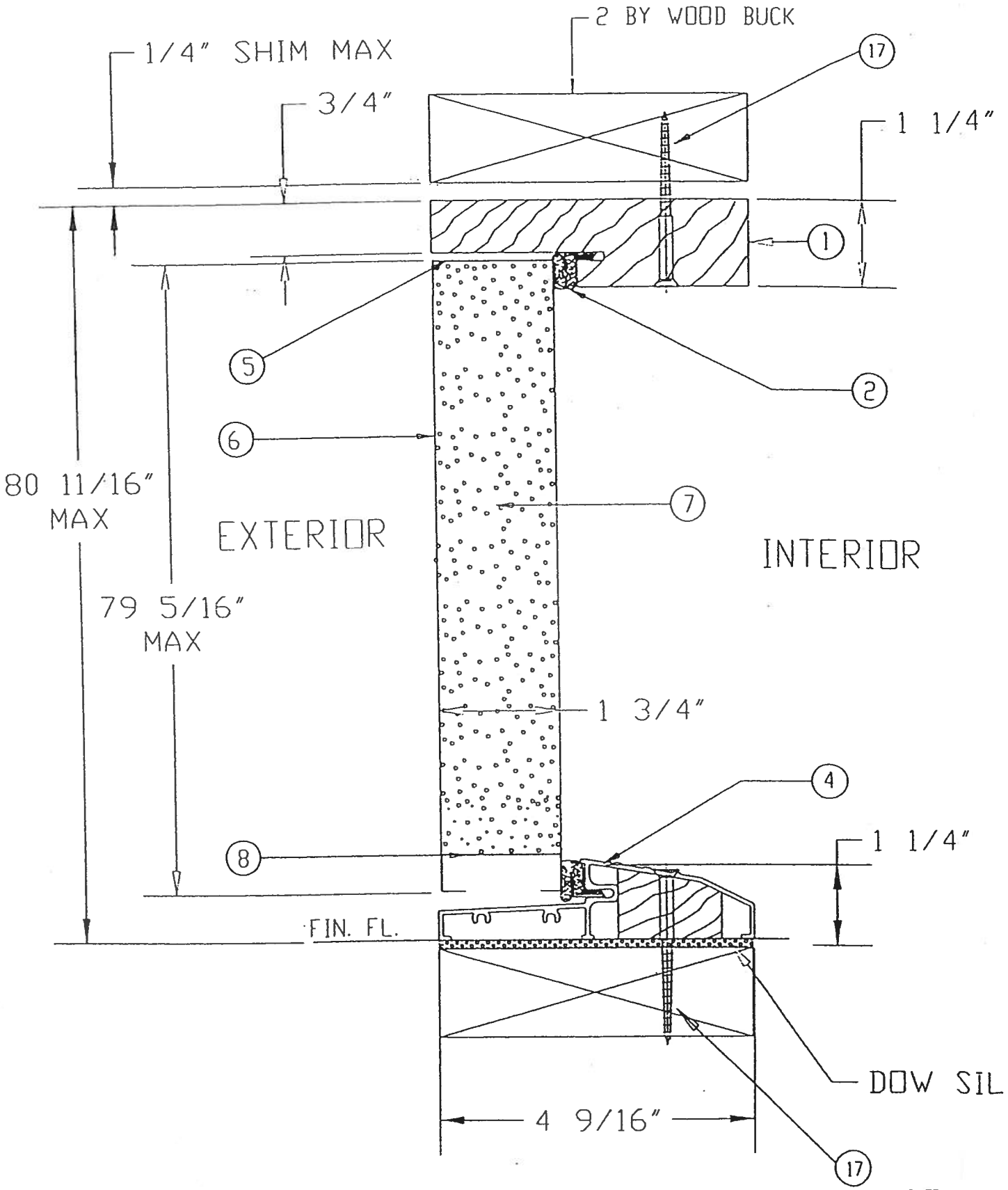
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

	C	DADE COUNTY MODIFICATIONS	5/11/01 JD
	B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98 RS
LIMITS UNLESS NOTED, FRAC : DEC : ANG : EXTRUSIONS UNLESS NOTED, STD COML TOLS	A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-10-97 RS
ENGINEER:	LTR	REVISIONS	DATE JT
DR BY R.S. DATE 7-29-97	PART NAME: ENTRY DOOR W/SIDELITES (A-A)		
	MAT'L:	SCALE: NTS	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-0
SHEET 2 OF 6

REVISION LETTER C



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN. YIELD STRENGTH 33,000 PSI MIN. THICKNESS PER TENSILE TEST REPORT IS .017"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./Ft.³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEI
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PTH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 x 1 3/4" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALEN
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS U FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND I TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND T

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Samuel Gomez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

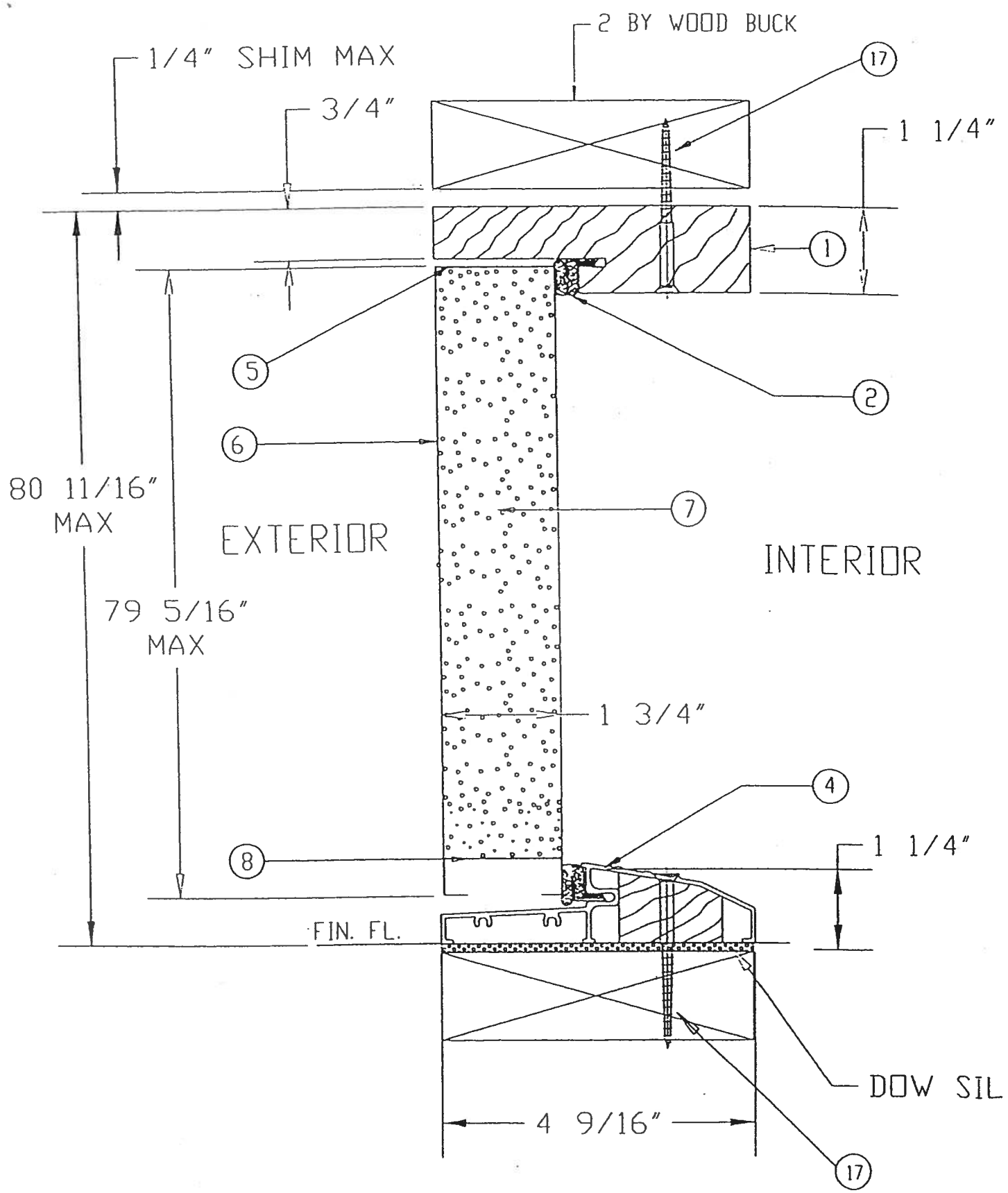
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	B	DADE COUNTY MODIFICATIONS	1/11/01 JD
	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98 RS
ENGINEER:	LTR.	REVISIONS	DATE BY
	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)		
DR. BY R.S. DATE 7-29-97	MAT'L:	SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-0
SHEET 3 OF 6

REVISION LETTER B



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
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③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16".
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN YIELD STRENGTH 37,000 PSI MIN THICKNESS PER TENSILE TEST REPORT IS .071"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft.³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEI
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 x 1 3/4" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALEN
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE HOLDINGS U FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND T

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
DR. BY R.S. | DATE 7-29-97

LTR.	REVISIONS	DATE	BY
B	DADE COUNTY MODIFICATIONS	1/11/01	JD
A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS

PART NAME: ENTERGY WOOD EDGE DOOR (B-B)
MAT'L: SCALE:

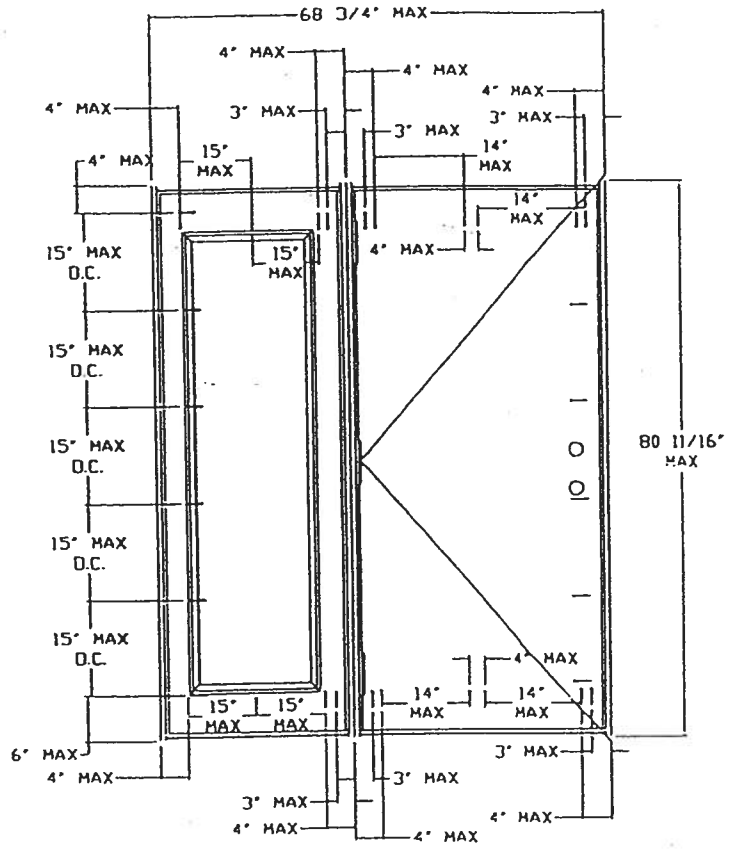
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-0
SHEET 3 OF 6

REVISION LETTER B

OTHER DOOR CONFIGURATIONS



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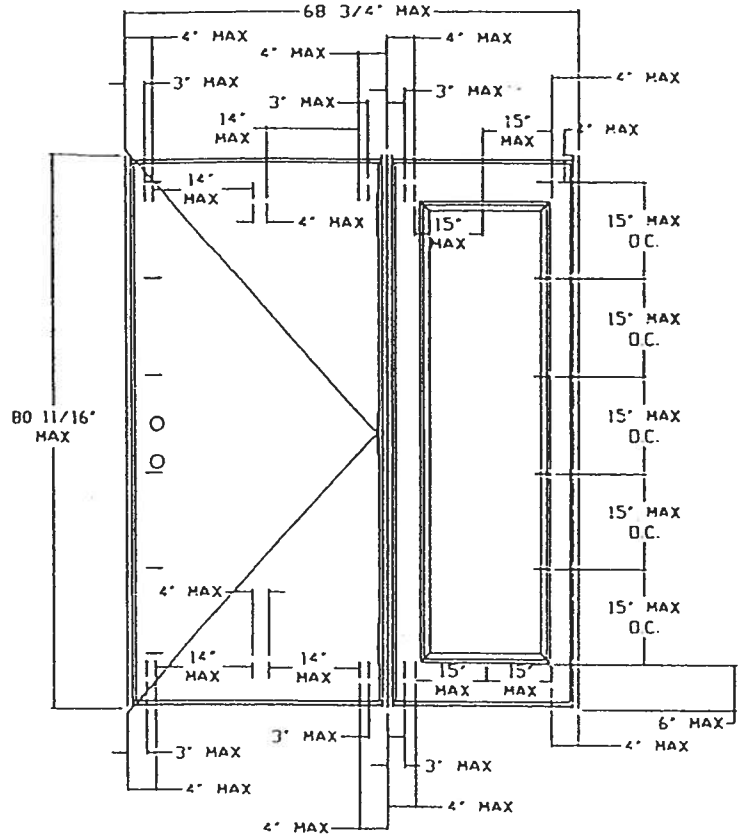

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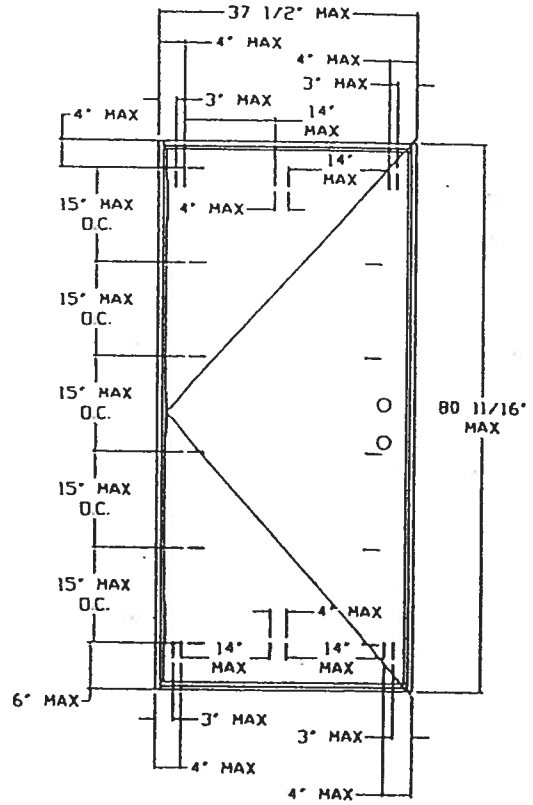

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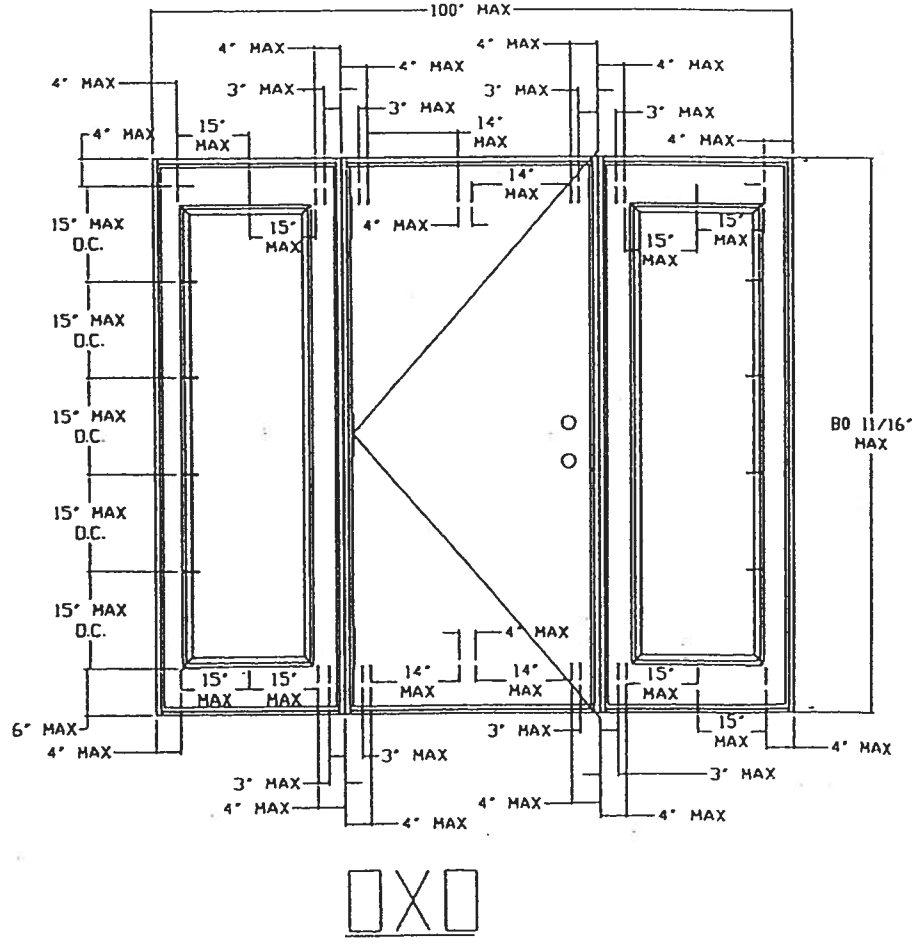

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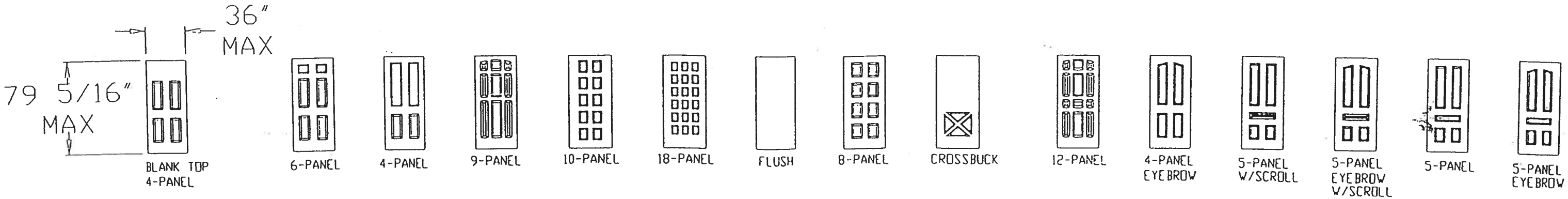
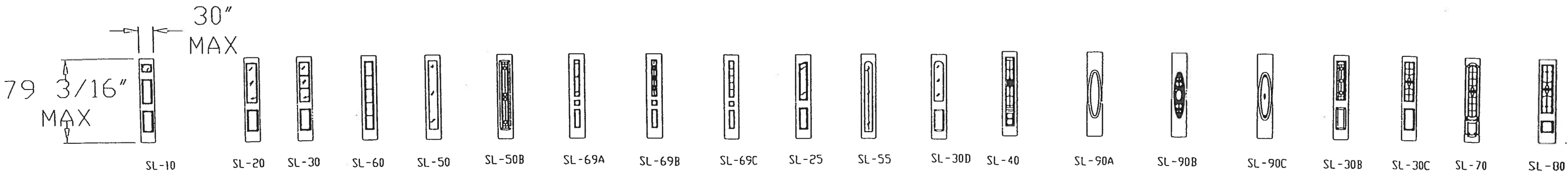
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

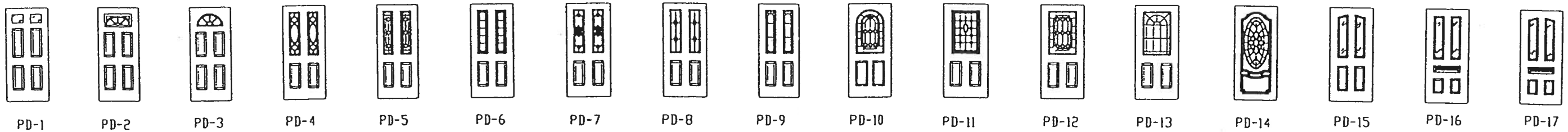
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.			
ENGINEER:	LTR.	REVISIONS	DATE BY
	PART NAME:		
DR. BY J.D. DATE 1-11-01	MAT'L:	SCALE:	
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1020-EW-D SHEET 5 OF 6		
	REVISION LETTER		

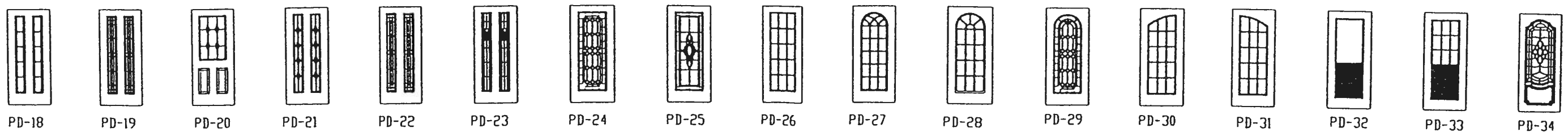
OTHER DOOR PANEL STYLES

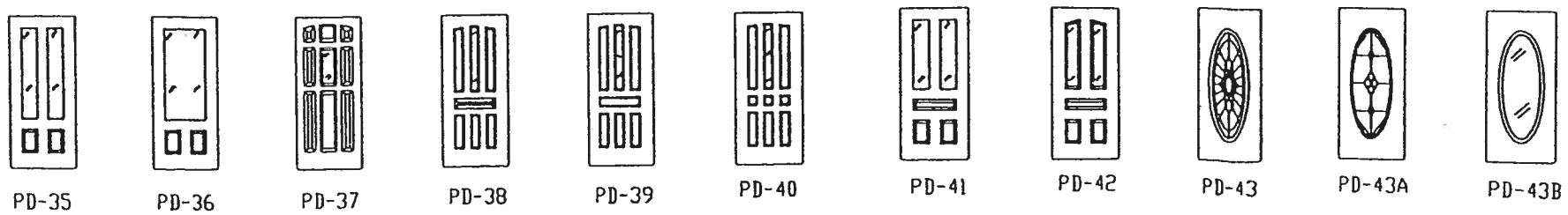


OTHER SIDELITE STYLES









APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S
ENGINEER:
DR. BY J.D. | DATE 1/15/01

LTR.	REVISIONS	DATE	BY

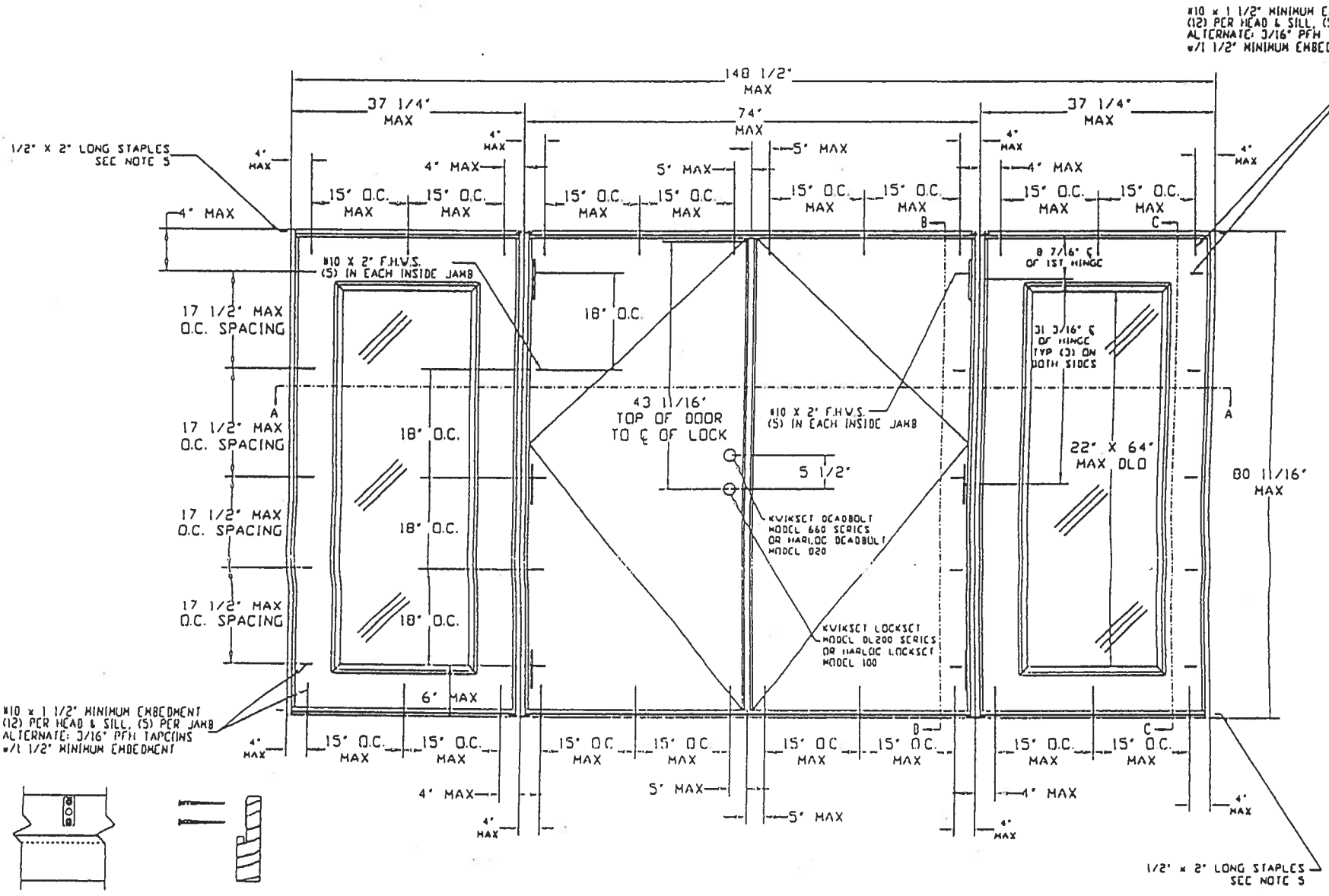
PART NAME: PREMDOOR DOOR OPTIONS
MAT'L: | SCALE:

PREMDOOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-0
SHEET 6 OF 6

REVISION LETTER

PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH A BUMPER THRESHOLD (INSWING)



ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS

NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.

4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS

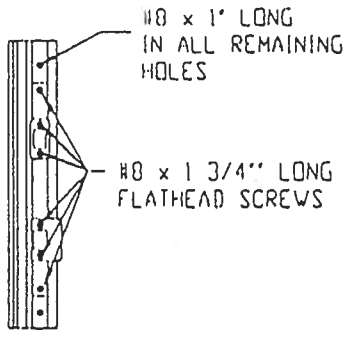
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.

6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.

7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.

8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.



ASTRAGAL

L.H. INSWING R.H. INSWING

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED x	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED*	+55.0 psf
Negative	NOT APPROVED*	-55.0 psf

x UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.24

LTR.	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS

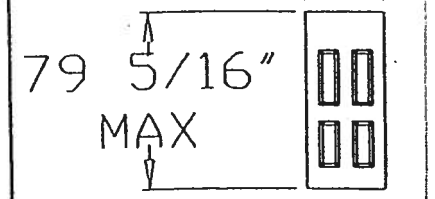
LIMITS UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
DR. BY R.S. | DATE 7-29-97
PART NAME: ENTERGY (WOOD CORE) DOUBLE DOOR W/SIDELITES
MAT'L: | SCALE: N.T.S.

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1029-EW-I
SHEET 1 OF 6

REVISION LETTER C

OTHER



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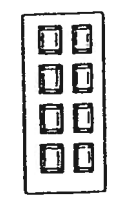
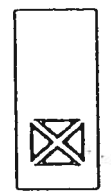


8-PANEL



CROSSBUCK

12-PANEL

4-PANEL EYEBROW

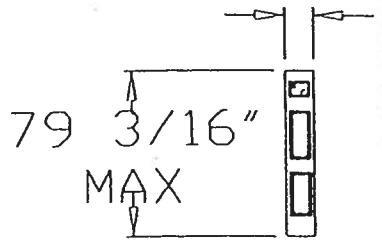
5-PANEL W/SCROLL

5-PANEL EYEBROW W/SCROLL

5-PANEL

5-PANEL EYEBROW

OTHER



SL-10

SL-25

SL-55

SL-30D

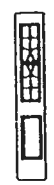
SL-40

SL-90A

SL-90B

SL-90C

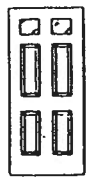
SL-30B



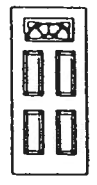
SL-30C

SL-70

SL-80

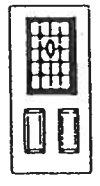


PD-1

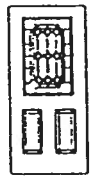


PD-2

PD-10



PD-11



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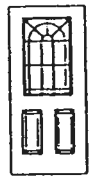
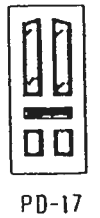


PD-13

PD-14

PD-15

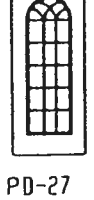
PD-16



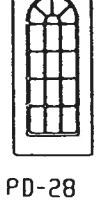
PD-17

PD-18

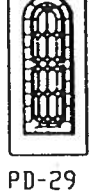
PD-19



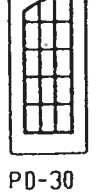
PD-27



PD-28



PD-29



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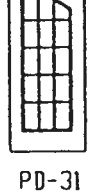
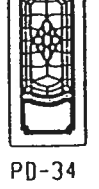


PD-31

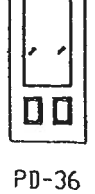
PD-32

PD-33

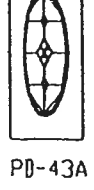


PD-34

PD-35

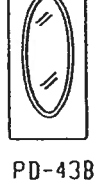


PD-36



43

PD-43A



PD-43B

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.24

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

DR. BY J.D. | DATE 1/15/01

LTR. | REVISIONS | DATE | BY

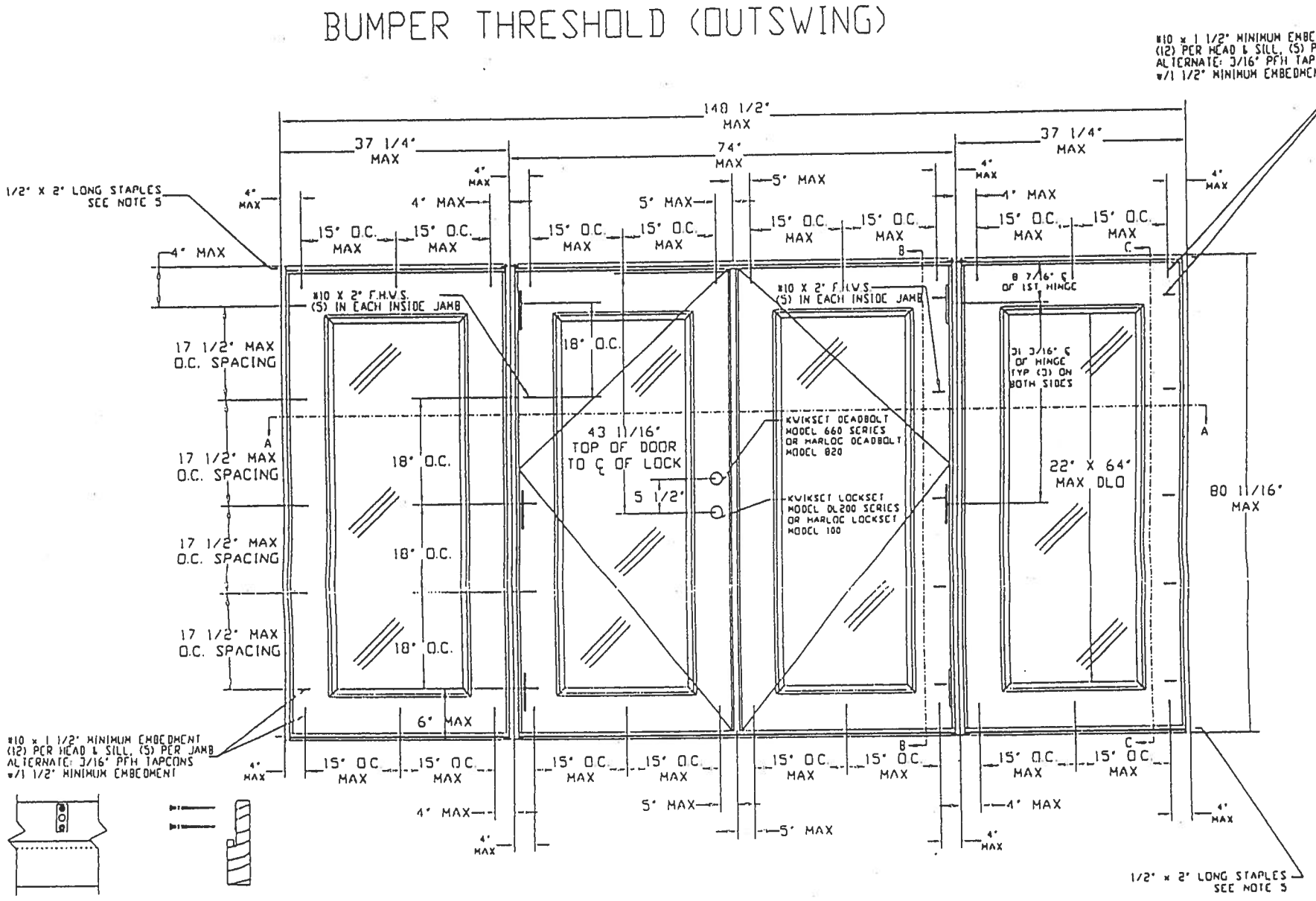
PART NAME: PREMDOR DOOR OPTIONS

MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1029-EW-1
SHEET 6 OF 6

PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH A BUMPER THRESHOLD (OUTSWING)



ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS

NOTES:

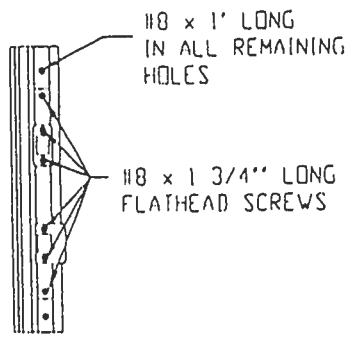
1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.



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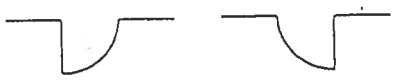


DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+ 50.5 psf	+50.5 psf
Negative	NOT APPROVED*	-50.5 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0314.29

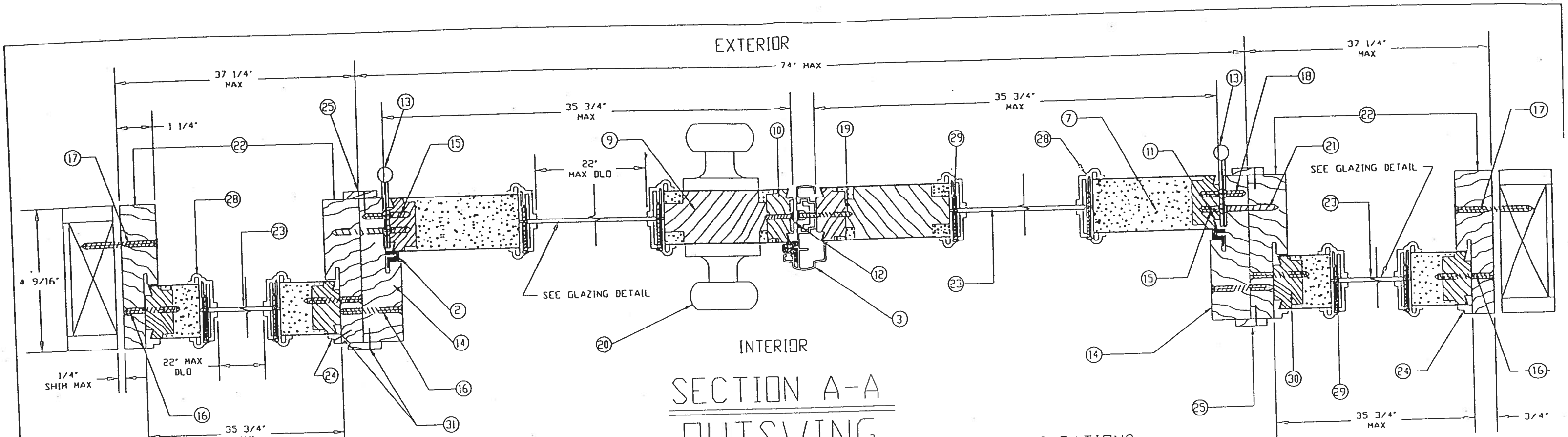
LTR.	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
DR. BY R.S. DATE 7-29-97
PART NAME: ENTERGY WOOD EDGE DOUBLE DOOR W/SIDELITES
MAT'L:
SCALE: N.T.S.

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

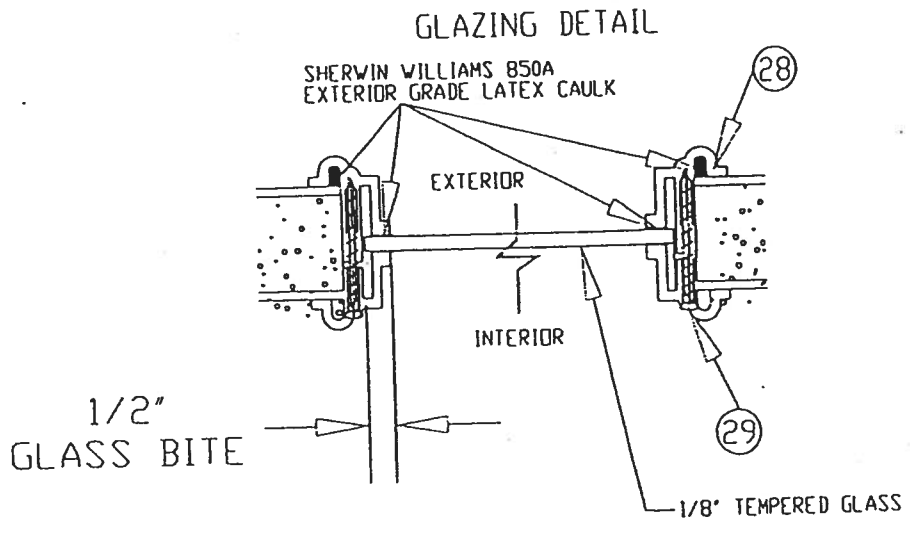
31-1028-EW-0
SHEET 1 OF 6

REVISION LETTER C

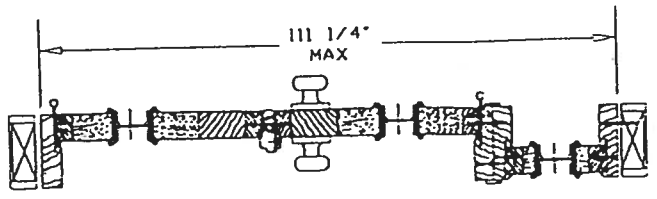


SECTION A-A
OUTSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



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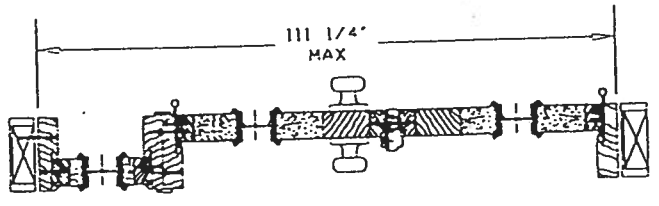

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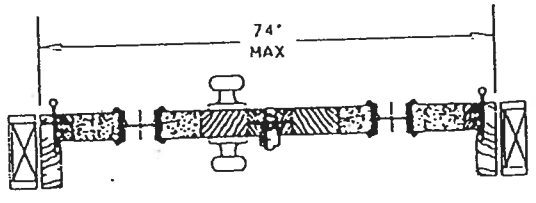

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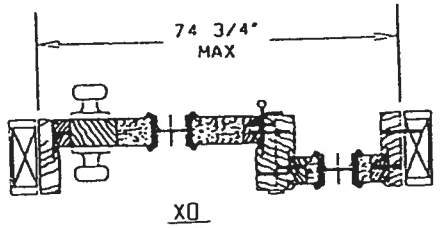

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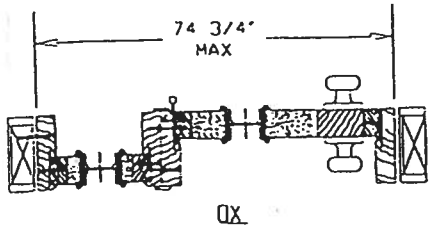

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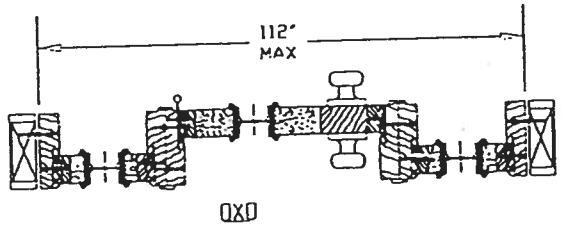

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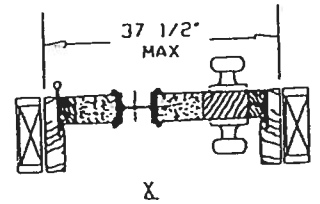


X

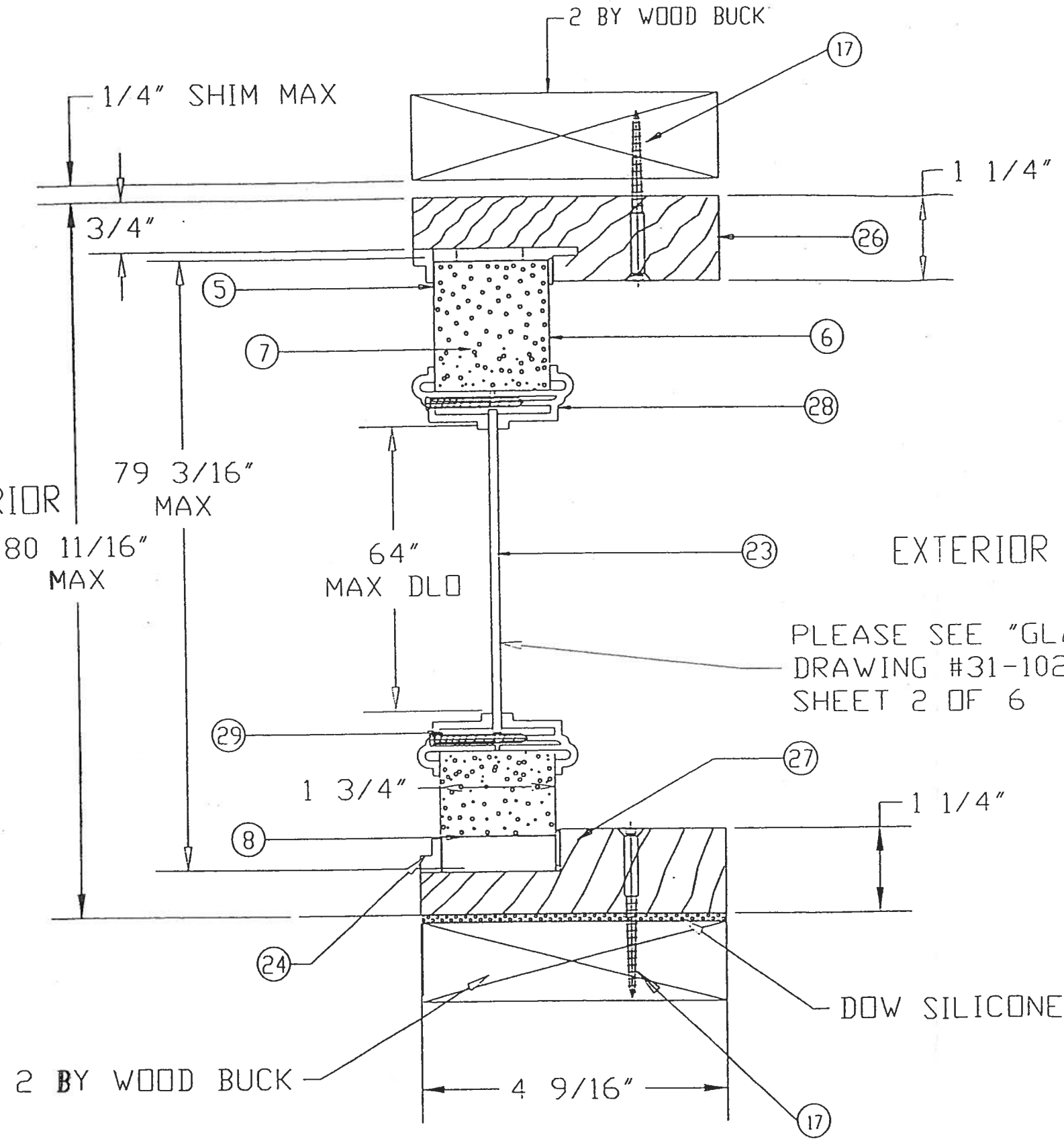
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

C	DADE COUNTY MODIFICATIONS	7/11/01	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-18-97	RS
LTR	REVISIONS	DATE	BY

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COMM. TOLS
ENGINEER:
DR BY R.S. DATE 7-29-97
PART NAME: ENTERGY DOOR W/SIDELITES (A-A)
PART: SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1028-EW-0
SHEET 2 OF 6
REVISION LETTER C



SECTION C-C

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LTR.	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

DR. BY R.S. | DATE 7-29-97

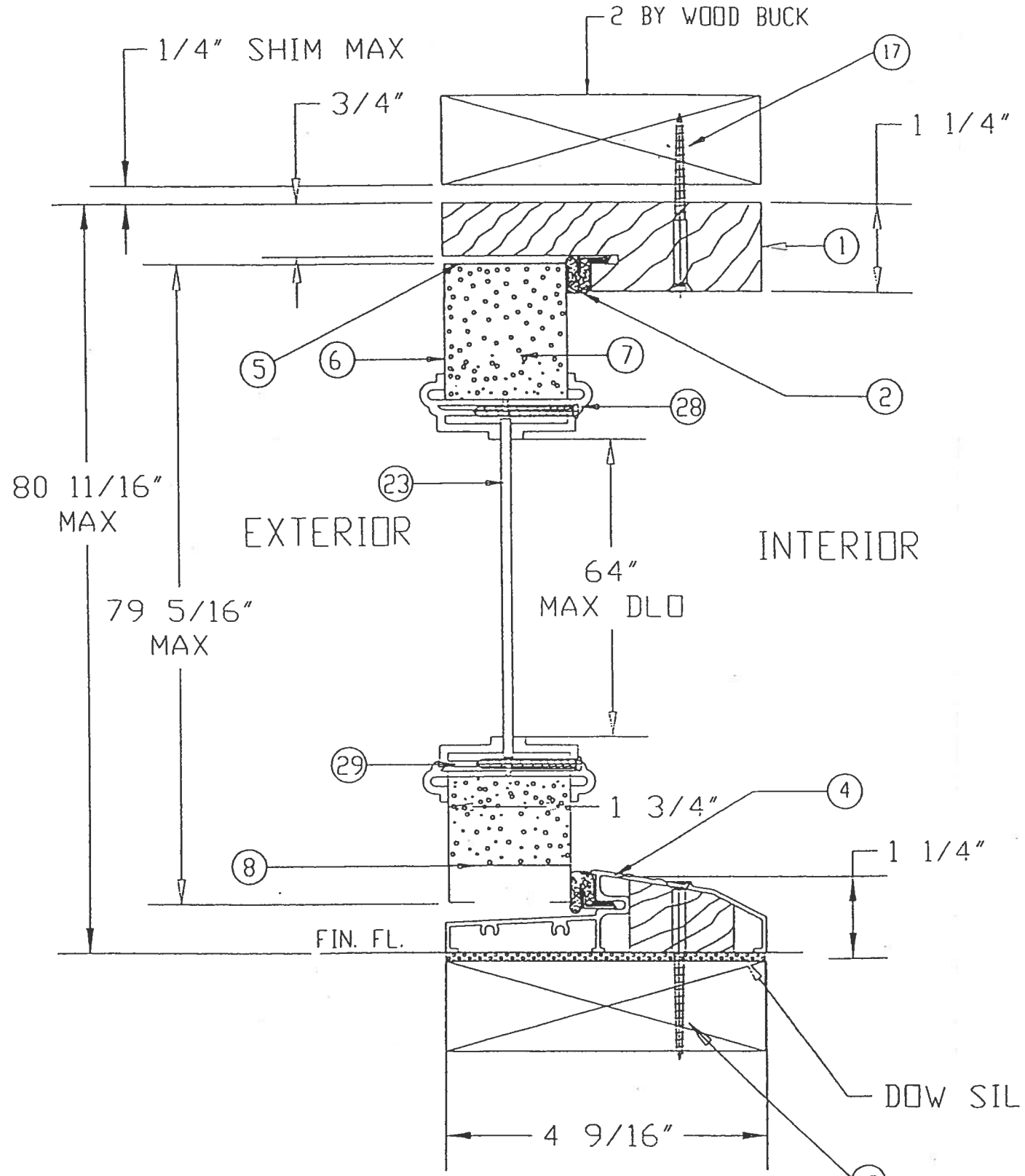
PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)

MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1028-EW-0
SHEET 4 OF 6

REVISION LETTER D



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-14	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-25	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	ALUMINUM ASTRAGAL	EW-12	PREMDOR BRAND OR EQUIVALENT- 5/8" ALUMINUM ASTRAGAL
④	ALUMINUM-BUMPER THRESHOLD	EW-15	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-08	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000) .	MIN. YIELD STRENGTH 45,000 PSI MIN. THICKNESS PER TENSILE TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft³	
⑧	BOTTOM CHANNEL	EW-07	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-09	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-05	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-10	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-16	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL)
⑭	WOOD HINGE JAMB	EW-13	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TOP MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TOP MAX 8" O.C. THEREAFTER (6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	#10 X 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 X 1 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
㉒	WOOD SIDELITE JAMB	EW-19	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-20	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL-2 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-21	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-22	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-24	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND NO TO EXCEED 14" OC THERE AFTER.
㉚	SIDELITE STILES	EW-26	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
㉛	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND TRI

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	B	DADE COUNTY MODIFICATIONS	1/11/01	JD
	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
ENGINEER:	LTR.	REVISIONS	DATE	BY
	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)			
DR. BY R.S. DATE 7-29-97	MAT'L:		SCALE:	

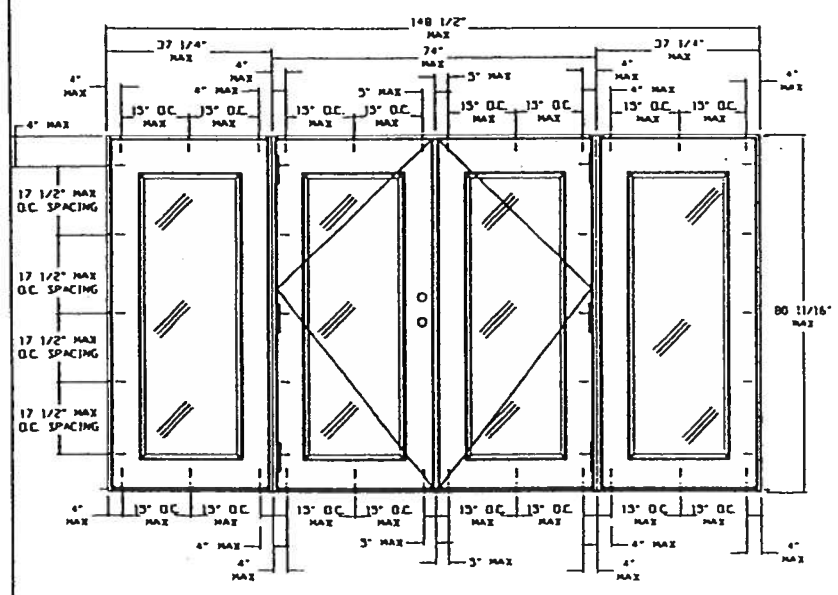
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1028-EW-0
SHEET 3 OF 6

REVISION LETTER B

OTHER DOOR CONFIGURATIONS



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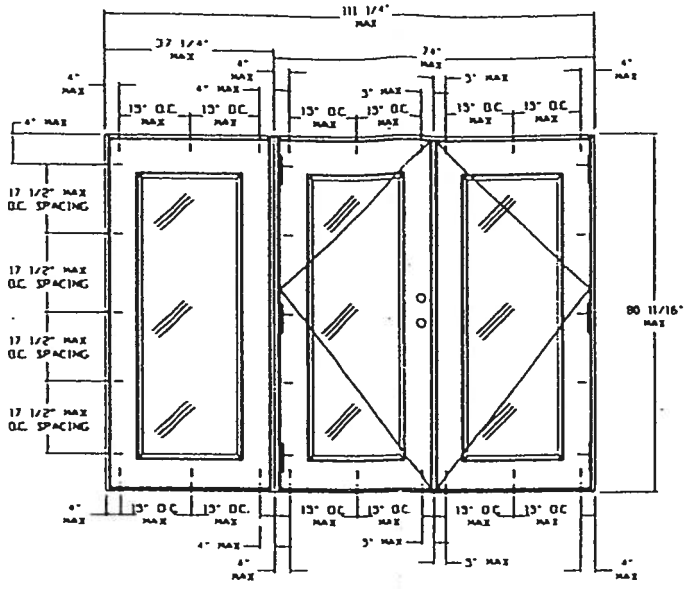

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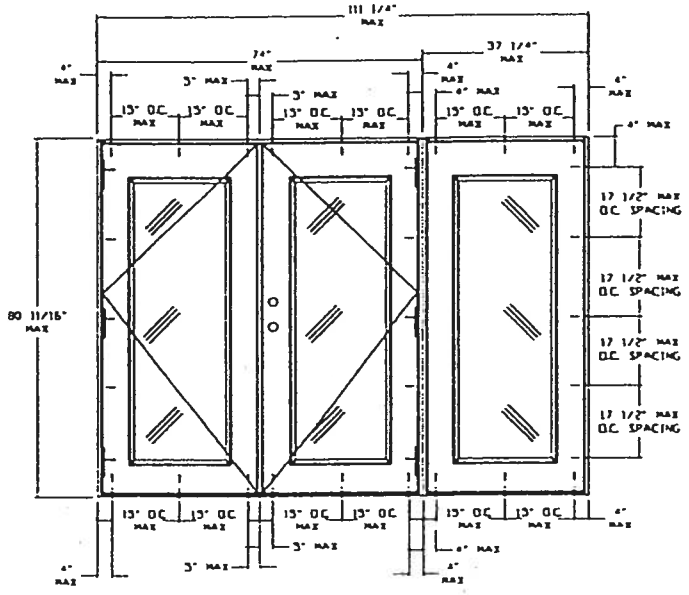

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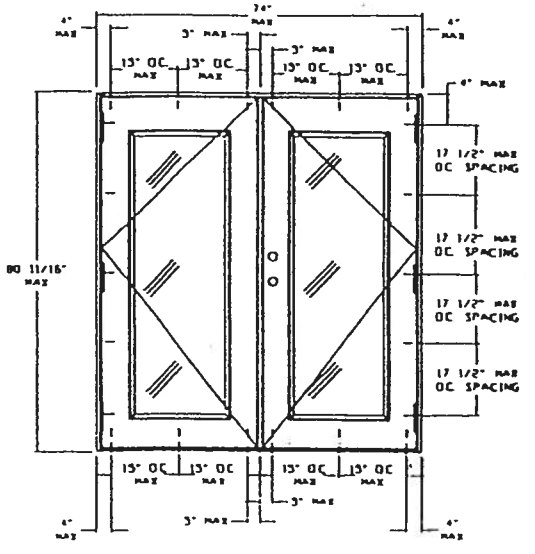

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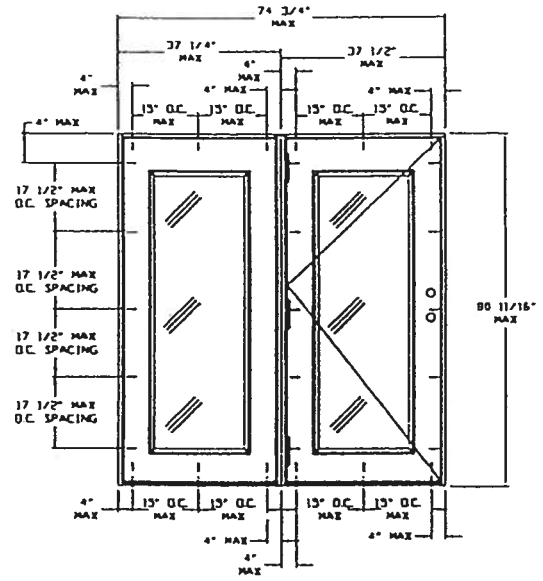

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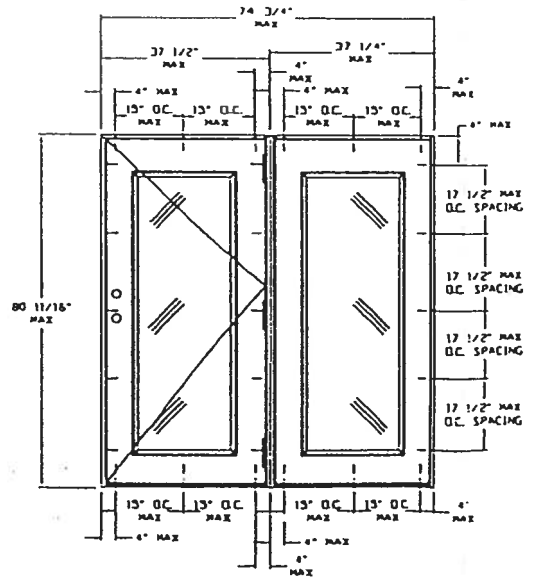

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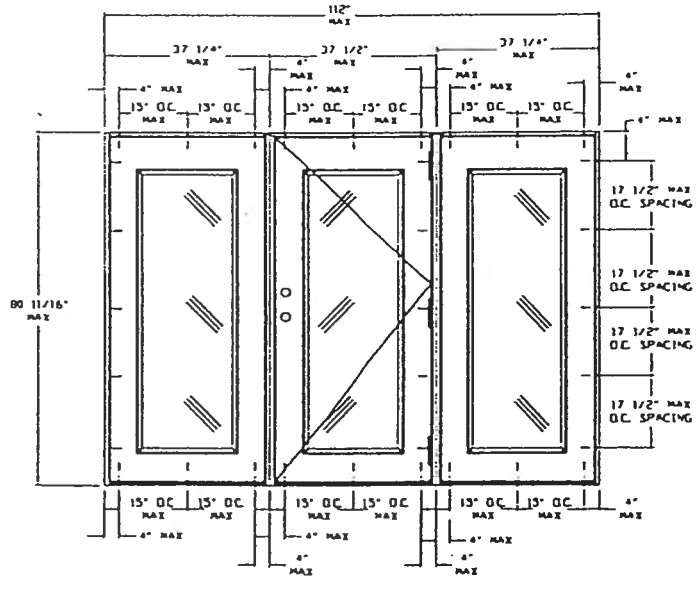

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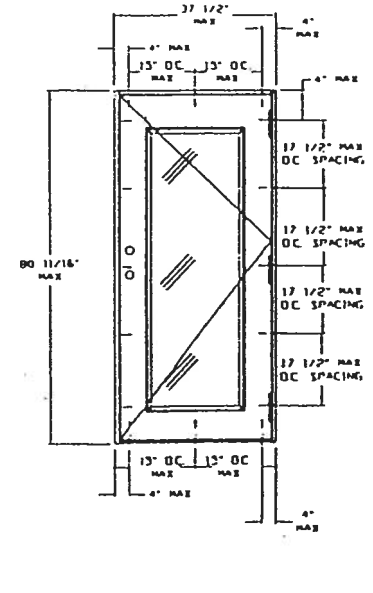

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APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. CON'L. TOL'S.

ENGINEER:

DR. BY J.D. | DATE 1-11-01

LTR.	REVISIONS	DATE	BY

PART NAME:

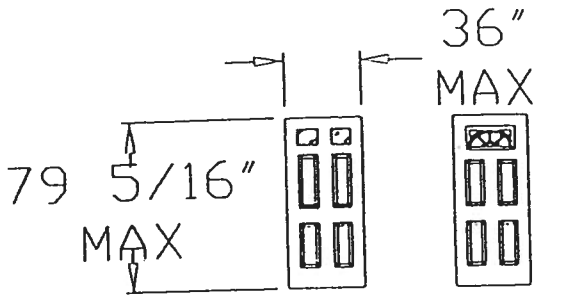
MAT'L: | SCALE:

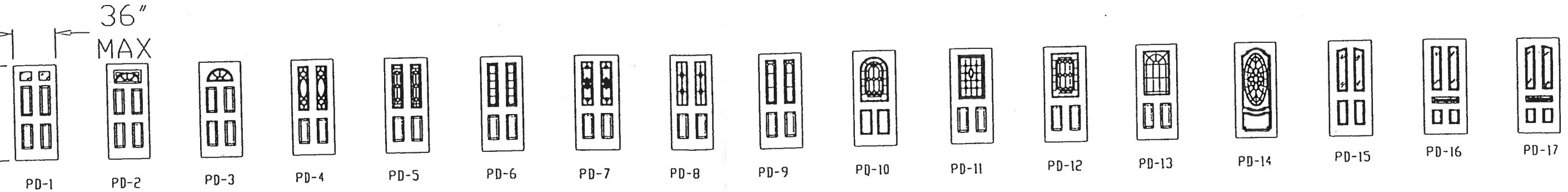
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

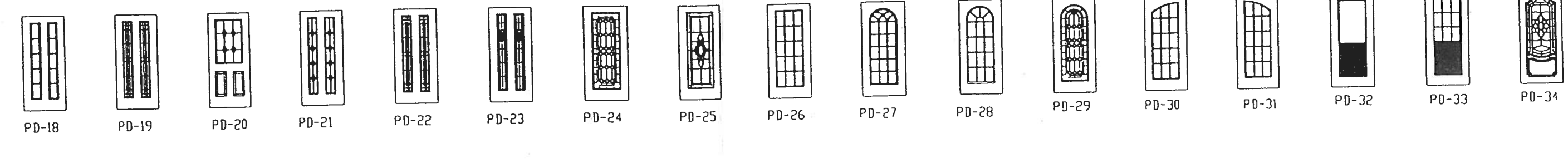
31-1028-EW-0
SHEET 5 OF 6

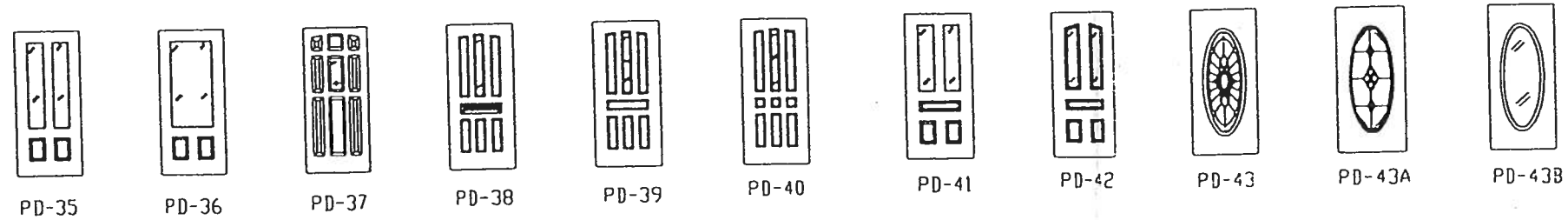
REVISION LETTER

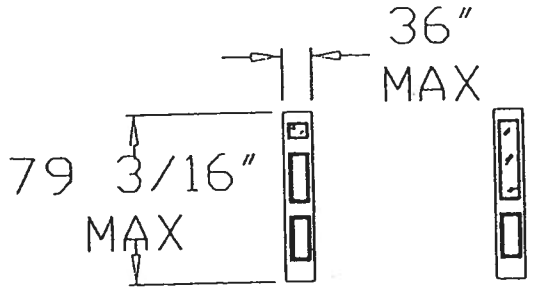
OTHER GLAZED DOOR PANEL/SIDELITE STYLES W/SURFACE APPLIED MUNTINS

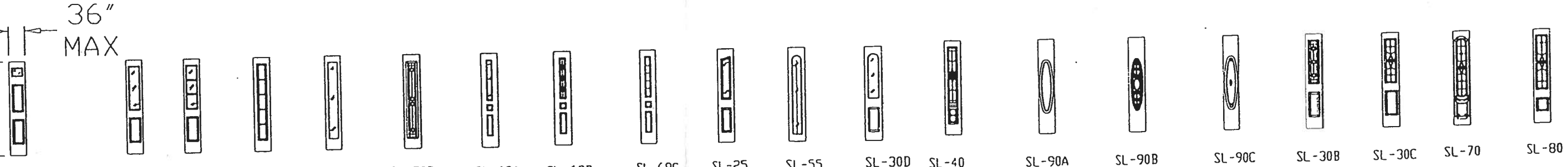






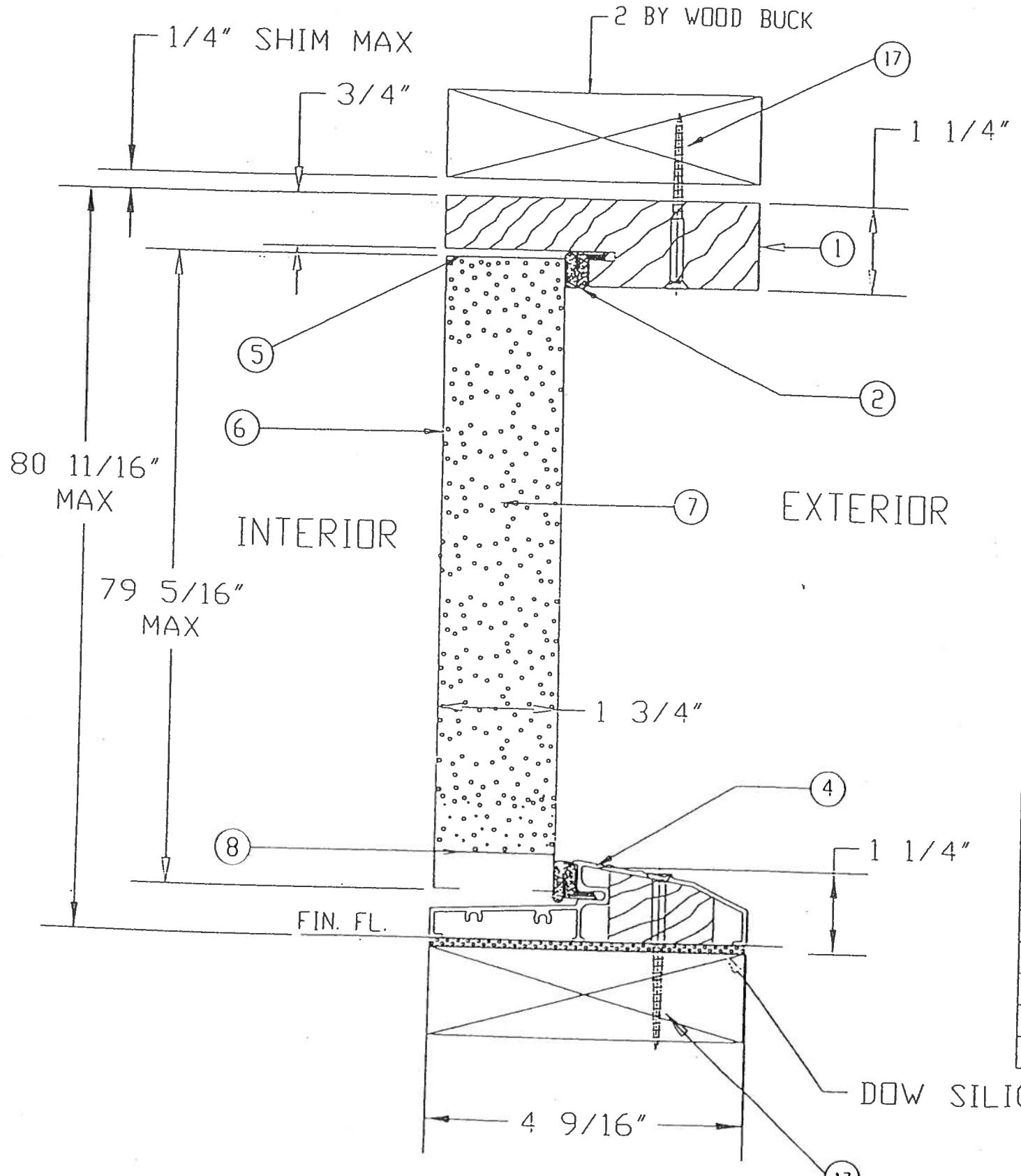






APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Sosa
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.			
	LTR.	REVISIONS	DATE BY
ENGINEER:	PART NAME: PREMDOR DOOR OPTIONS		
DR. BY J.D. DATE 1/15/01	MAT'L:	SCALE:	
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1028-EW-0 SHEET 6 OF 6		
	REVISION LETTER		



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN. YIELD STRENGTH 33,000 PSI MIN. THICKNESS PER TENSILE TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs/ft³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TOP MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB (6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PER TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	NOT USED ON THIS MODEL		
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL-2 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS.
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND NO TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND TRI

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.
ENGINEER:
DR. BY R.S. | DATE 7-29-97

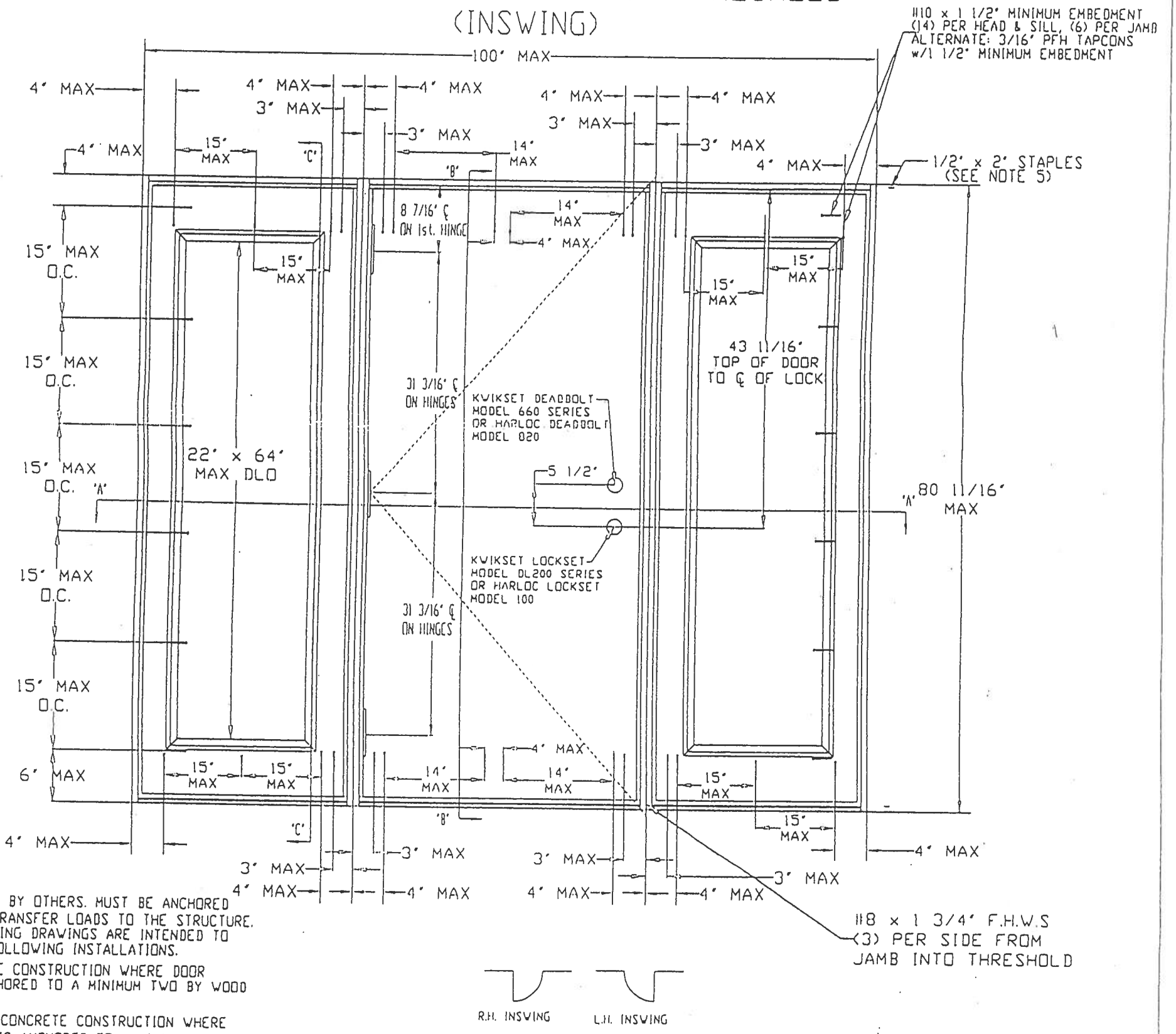
LTR.	REVISIONS	DATE	BY
B	DADE COUNTY MODIFICATIONS	1/11/01	JD
A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS

PART NAME: ENTERGY WOOD EDGE DOOR (B-B)
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-I
SHEET 2 OF 6

PREMDOR (ENTERGY BRAND)
WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (INSWING)



NOTES:

WOOD BUCKS BY OTHERS. MUST BE ANCHORED)PERLY TO TRANSFER LOADS TO THE STRUCTURE. THE PRECEDING DRAWINGS ARE INTENDED TO LIFY THE FOLLOWING INSTALLATIONS.

WOOD FRAME CONSTRUCTION WHERE DOOR TEM IS ANCHORED TO A MINIMUM TWO BY WOOD NING.

MASONRY OR CONCRETE CONSTRUCTION WHERE R SYSTEM IS ANCHORED TO A MINIMUM TWO BY UCTURAL WOOD BUCK.

MASONRY OR CONCRETE CONSTRUCTION WHERE R SYSTEM IS ANCHORED DIRECTLY TO CONCRETE MASONRY WITH OR WITHOUT A NON-STRUCTURAL BY WOOD BUCK.

ALL ANCHORING SCREWS TO BE #10 WITH IMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT O MASONRY.

UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY ROVED" SHUTTERS

THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES DOOR, THREE STAPLES PER JAMB. INTO BASE ON SIDELITES.

LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE IBS AND SIDELITES.

DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE RNERS ARE COPED AND BUTT JOINED.

DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST IIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ ATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED *	+67.0 psf
Negative	NOT APPROVED *	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 200[illegible]
BY [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/15/98	JD
B	ADD RATINGS & REDRAWN	6-26-97	RS
A	ADD SCREWS FROM JAMB TO THOLD	11-11-97	RS
A	ADD NOTE 4 FOR STAPLES	11-11-97	RS

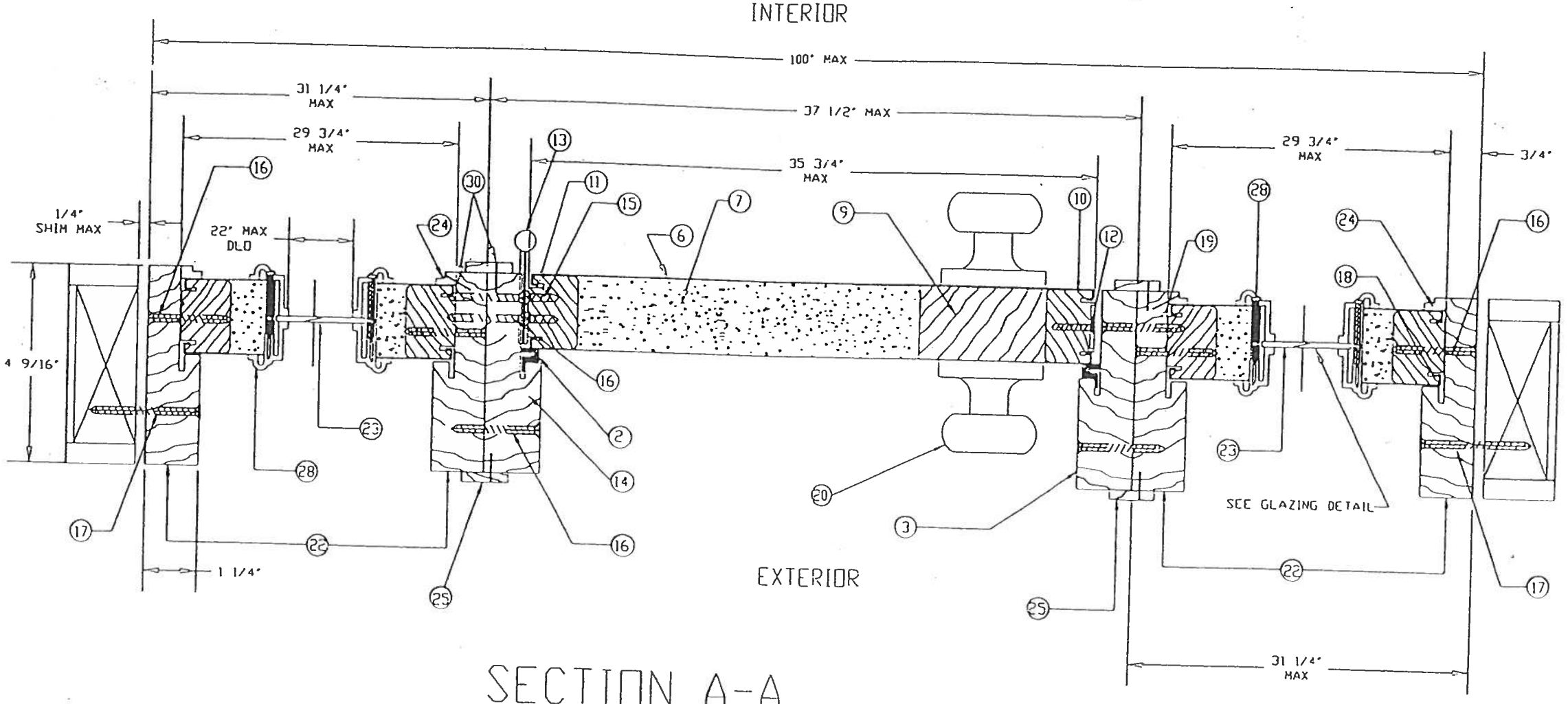
LINEAR: UNLESS NOTED, FRAC ± DEC ± ANG. ±
EXTRUSIONS: UNLESS NOTED, STD COMM. TOL'S
ENGINEER:
DR RT RS | DATE 4-9-97
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE
MATL: | SCALE:

PREMDOOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-1
SHEET 1 OF 6

revision letter C

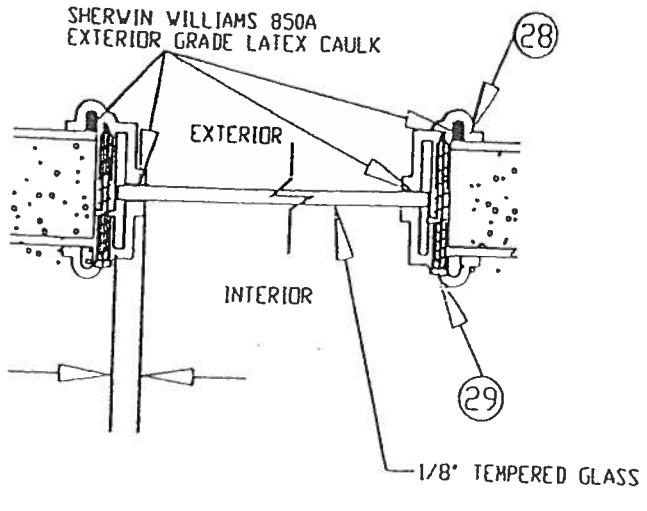
INTERIOR



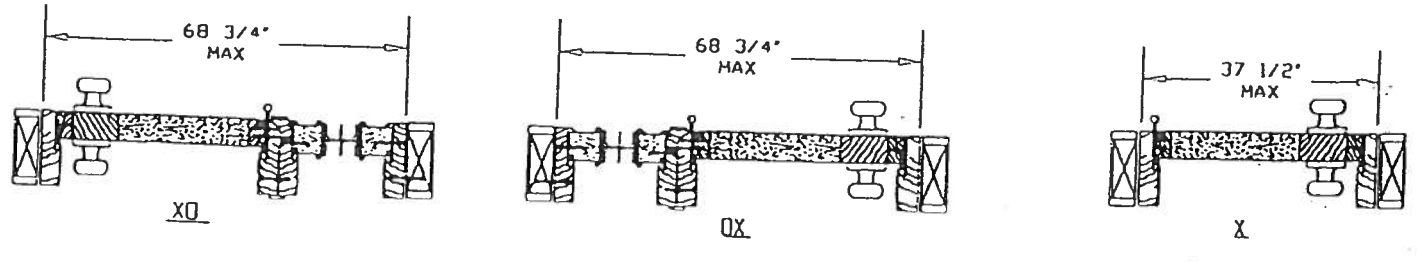
EXTERIOR

SECTION A-A
INSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

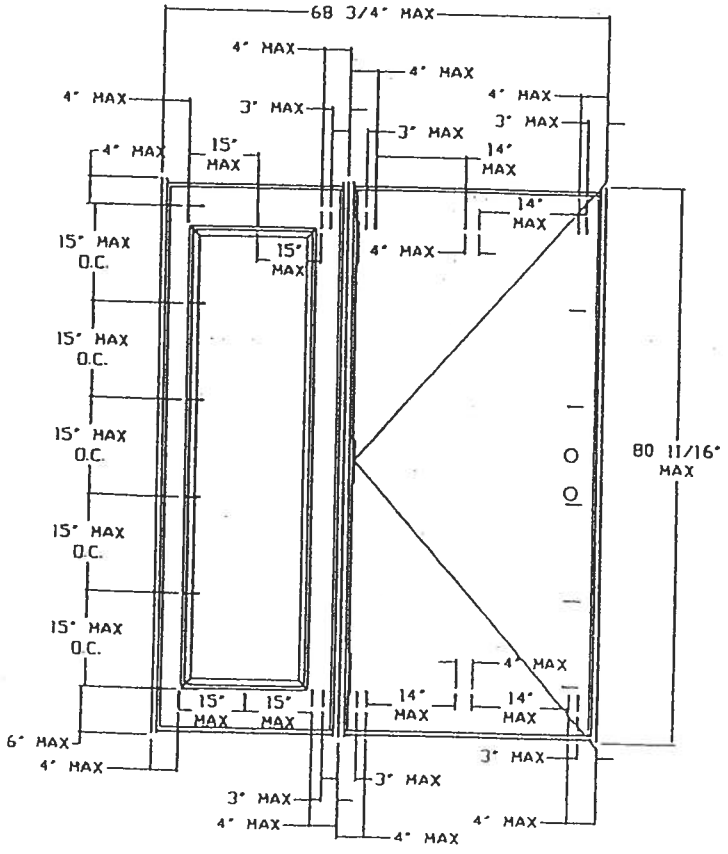
C	DADE COUNTY MODIFICATIONS	6/11/01	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-18-97	RS
LTR	REVISIONS	DATE	BY

UNITS UNLESS NOTED, FRAC. : DEC : ANG :
EXTRUSIONS UNLESS NOTED, STD COM. 10.5
ENGINEER:
DR. R.S. DATE 7-29-97
PART NAME: ENTERGY DOOR W/SIDELITES (A-A)
MAT'L: SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON

31-1020-EW-1

OTHER DOOR CONFIGURATIONS



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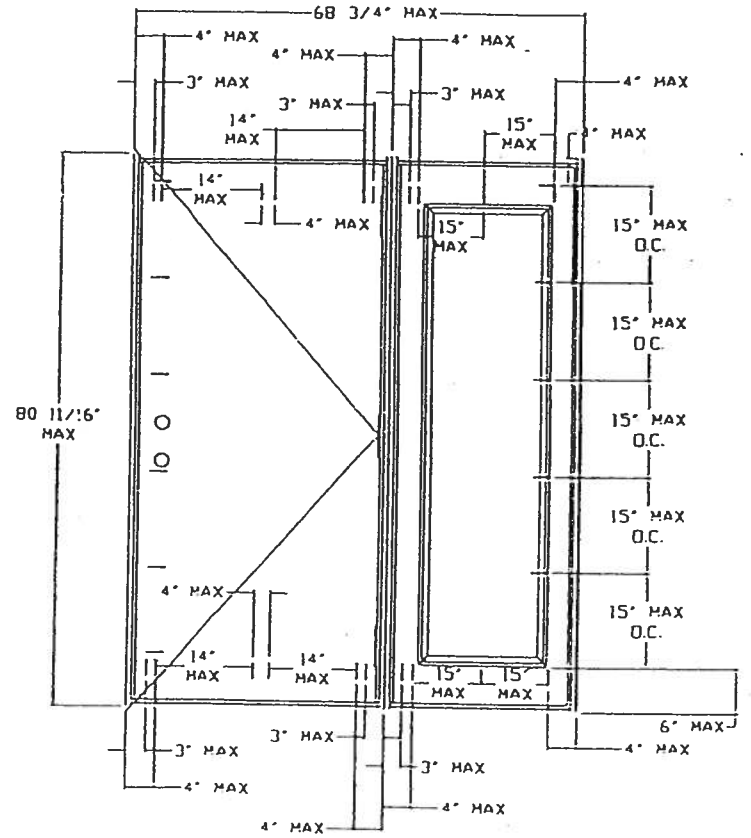

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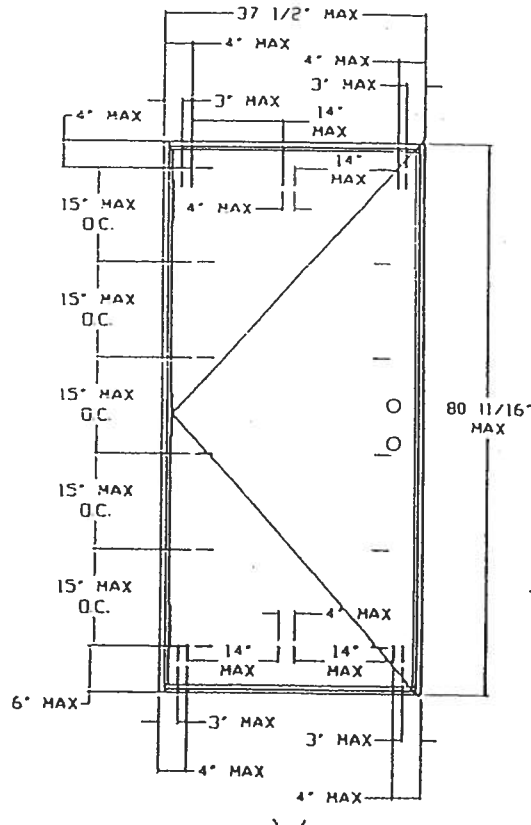

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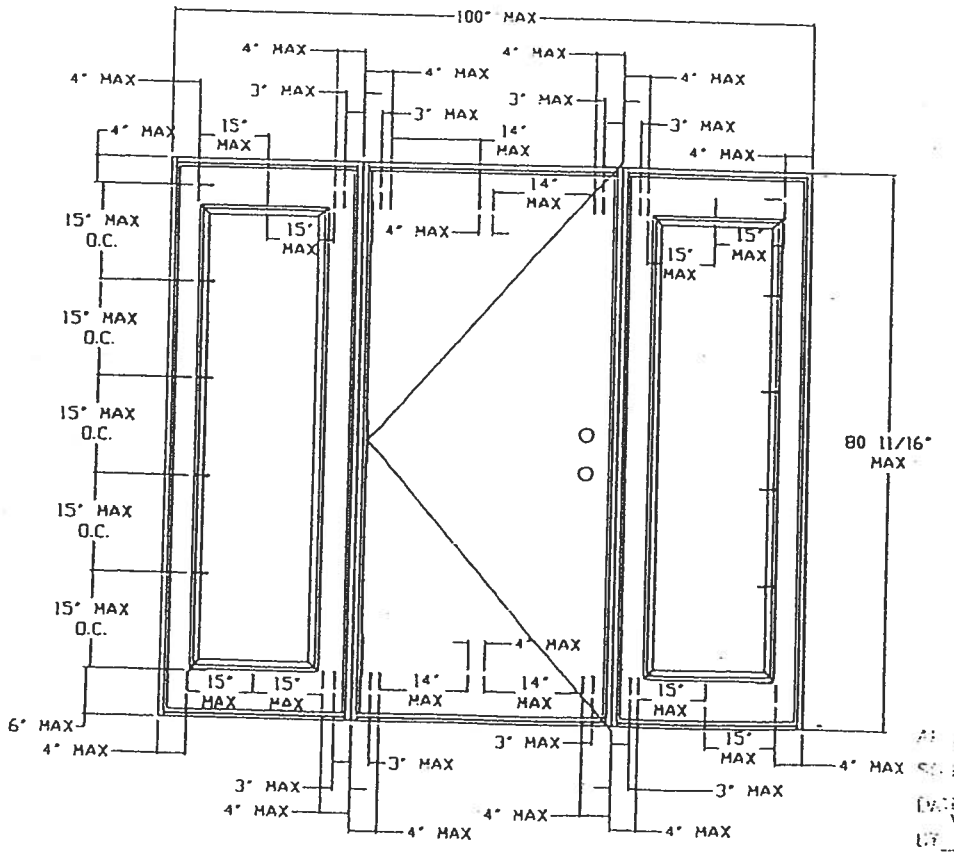


OXO

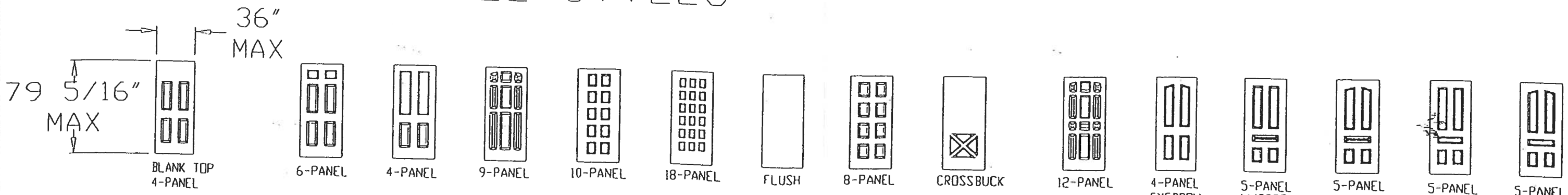
ALL ITEMS ARE APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.				
ENGINEER:	LTR.	REVISIONS	DATE	BY
	PART NAME:			
DR. BY J.D. DATE 1-11-01	MAT'L:		SCALE:	

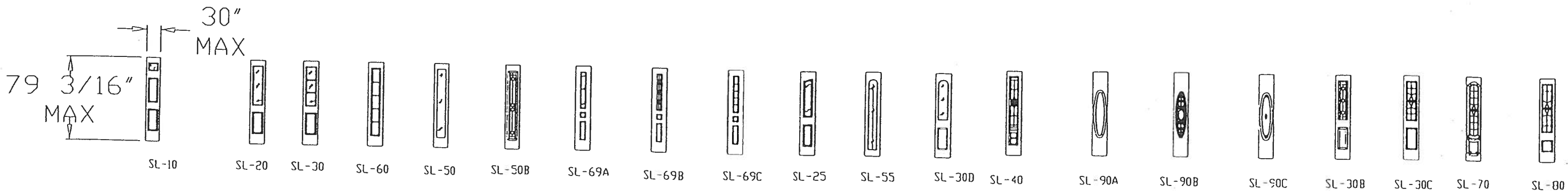
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

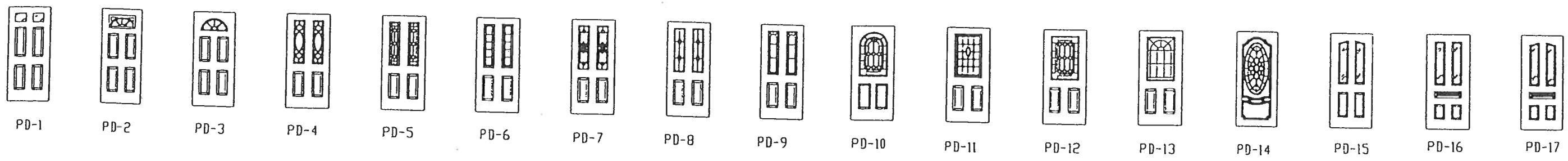
31-1020-EW-I
SHEET 5 OF 6

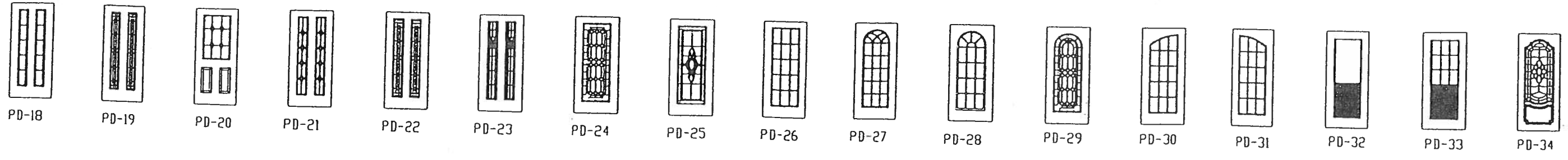
OTHER DOOR PANEL STYLES

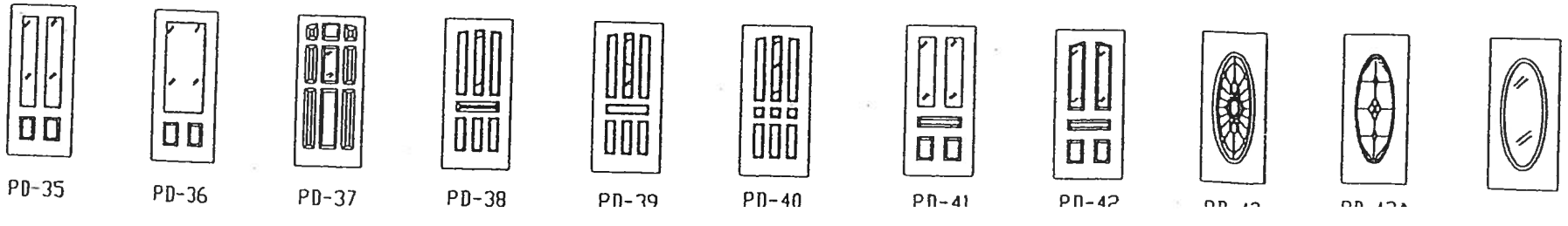


OTHER SIDELITE STYLES









APPROVED AS CONFORMING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: JUN 05 2001
BY: [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COMM. TOL'S.

LTR.	REVISIONS	DATE	BY

ENGINEER:

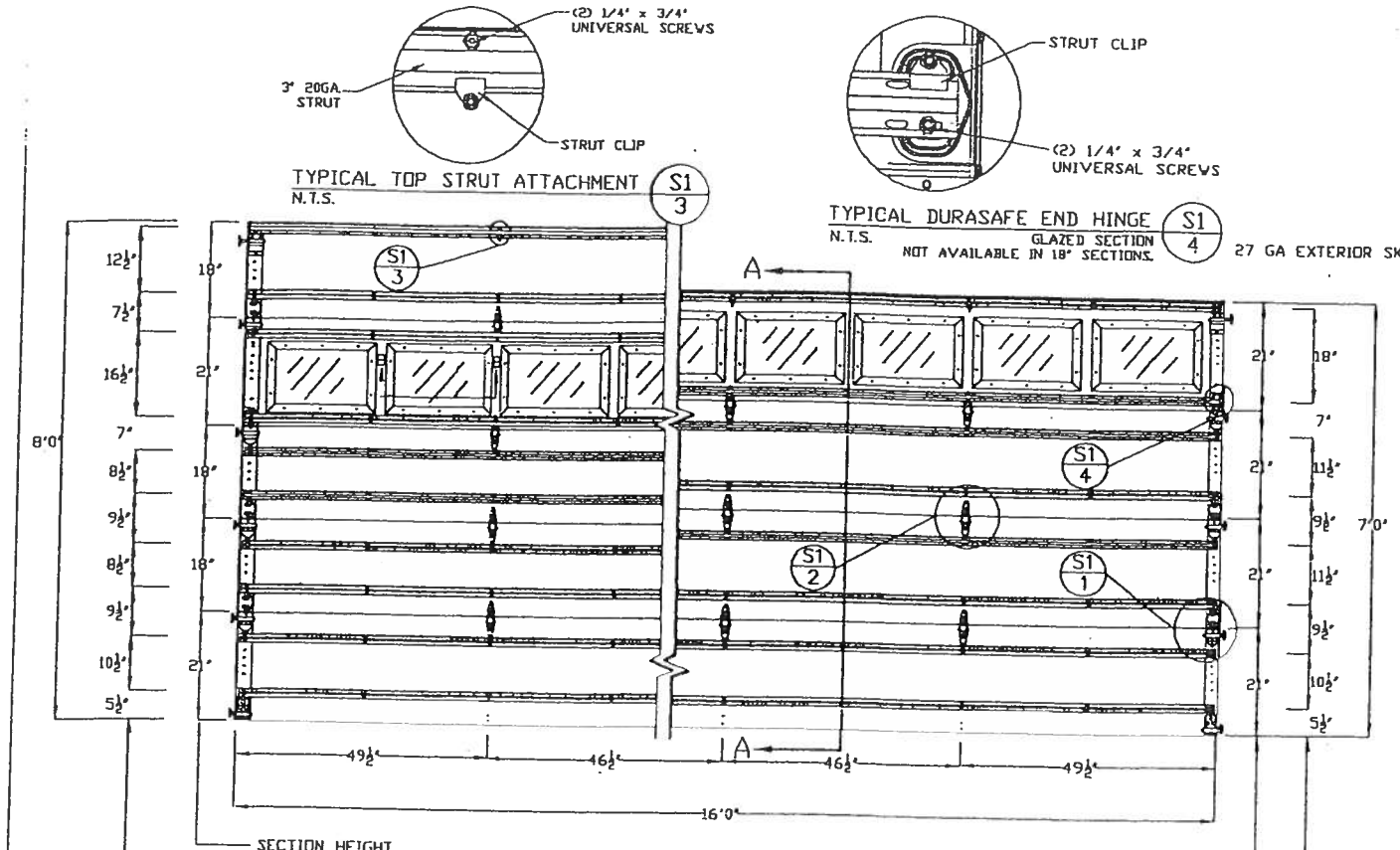
DR. BY J.D. | DATE 1/15/01

PART NAME: PREMDOR DOOR OPTIONS

MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON

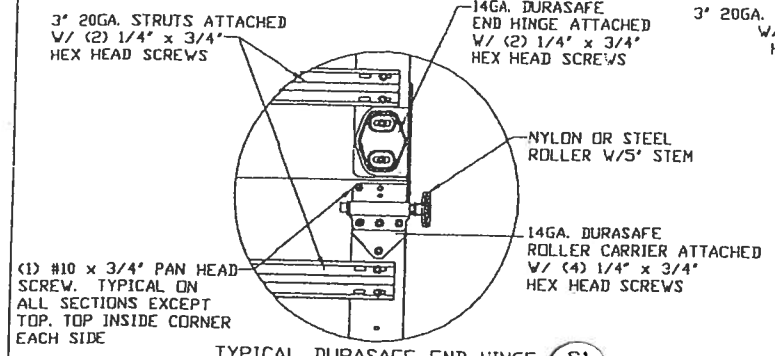
31-1020-EW-1



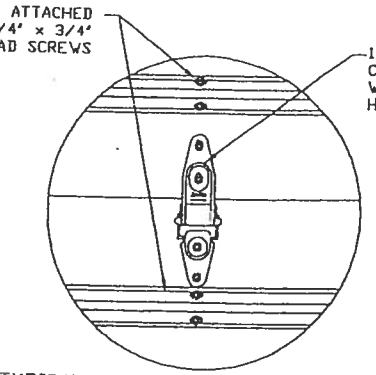
TYPICAL TOP STRUT ATTACHMENT S1 3
N.T.S.

TYPICAL DURASAFE END HINGE S1 4
N.T.S. GLAZED SECTION NOT AVAILABLE IN 18" SECTIONS.

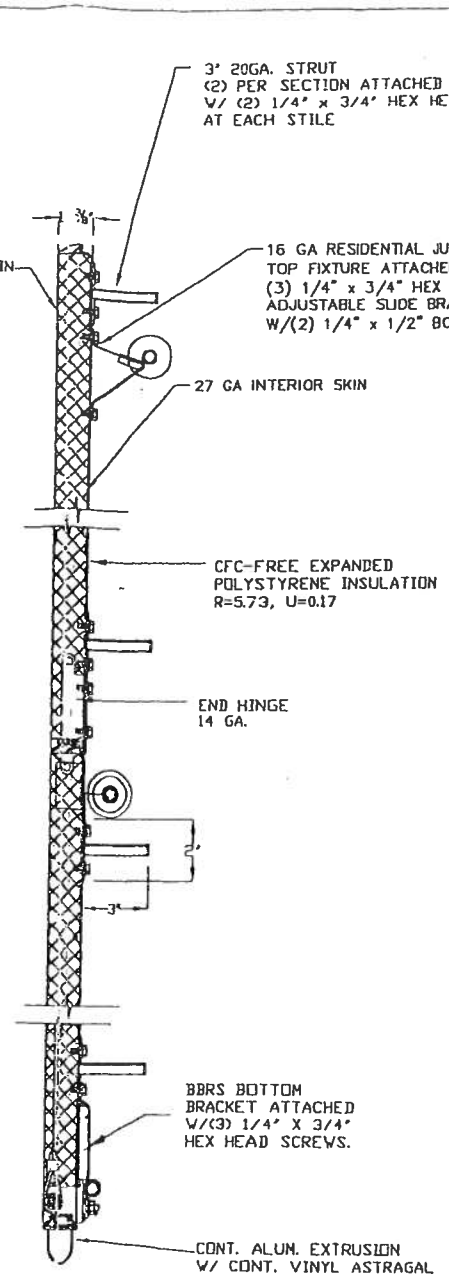
INSIDE ELEVATION



TYPICAL DURASAFE END HINGE S1 1
N.T.S. NON GLAZED SECTION



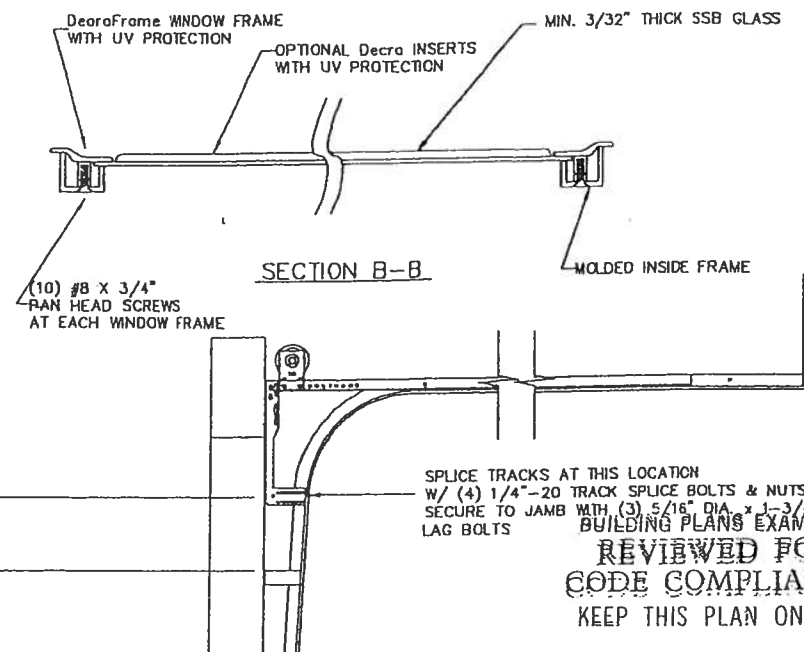
TYPICAL DURASAFE CENTER HINGE S1 2
N.T.S.



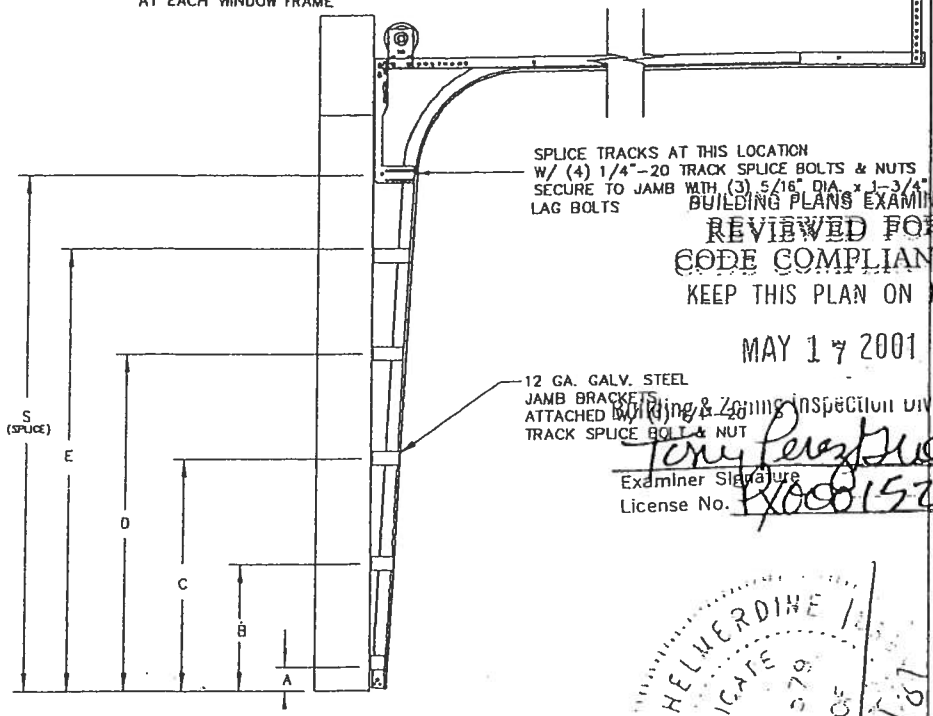
SECTION A-A (SIDE VIEW)

GLAZING OPTION CROSS SECTION

TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' x 7' AND 16' x 8' MODEL 1500-D DOORS.



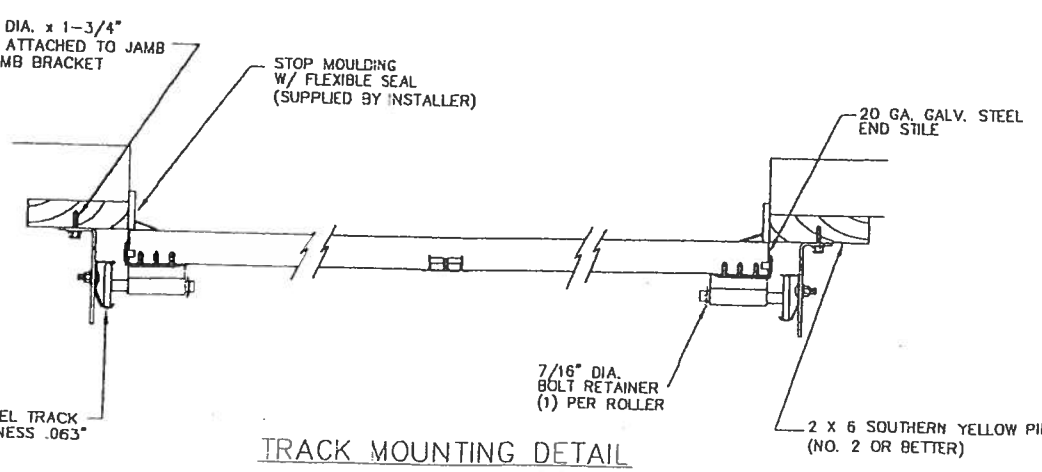
SECTION B-B



TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"



TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,100 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

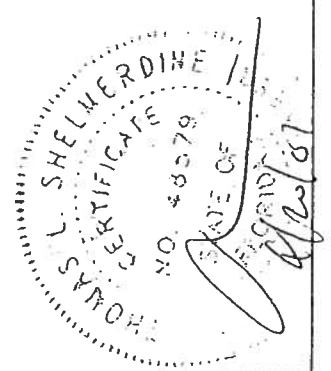
VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.018") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1608 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C

BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div. Jax., FL.
Examiner Signature
License No. RX0001520



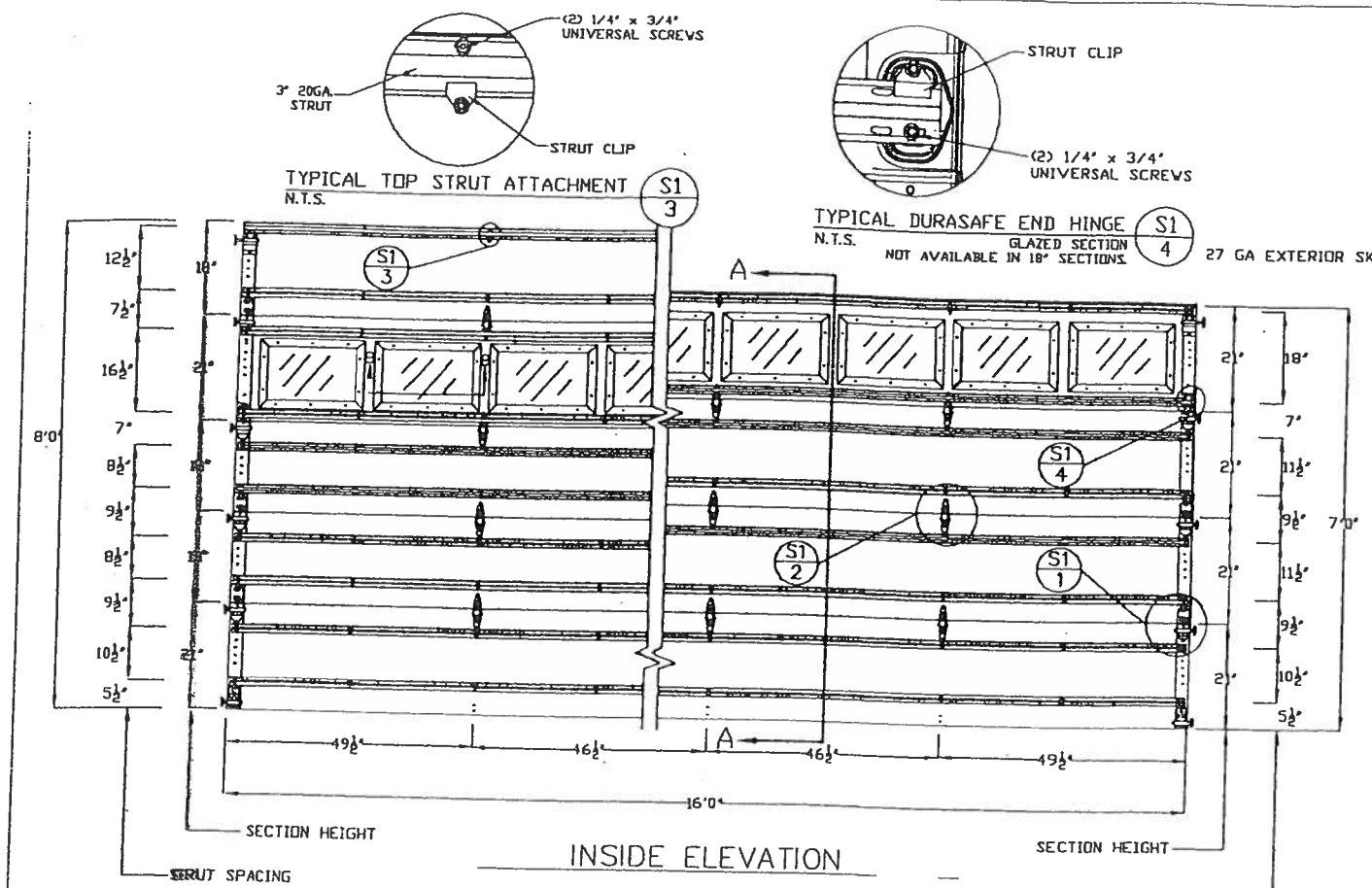
MAX SIZE	16' x 8'
DESIGN LOADS	+29.5 PSF -29.5 PSF
TEST LOADS	+49.3 PSF -49.3 PSF

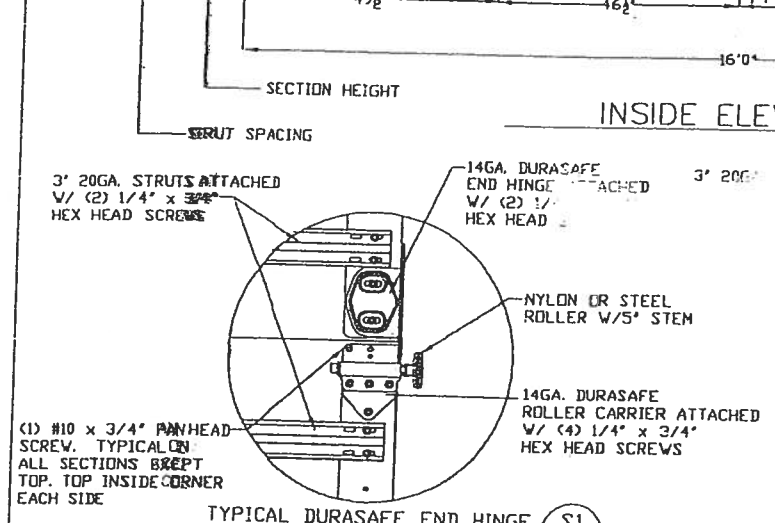
REV	DESCRIPTION OF REVISIONS	DATE	BY

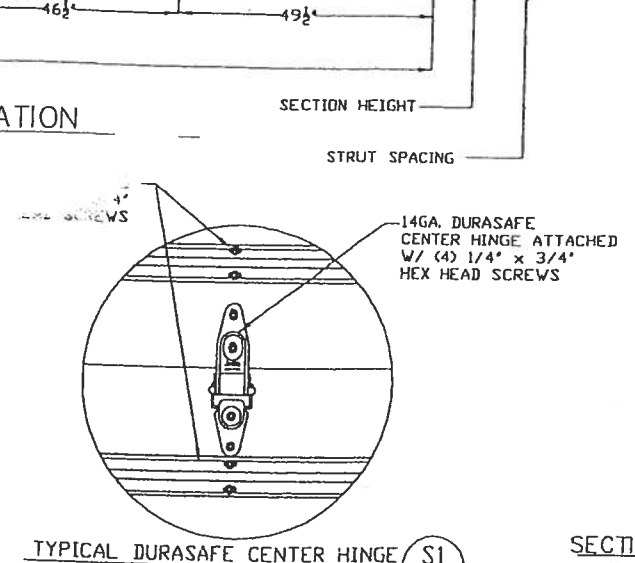
Amarr GARAGE DOORS
5921 GRASSY CREEK BLVD. WINSTON-SALEM, N.C. 27105

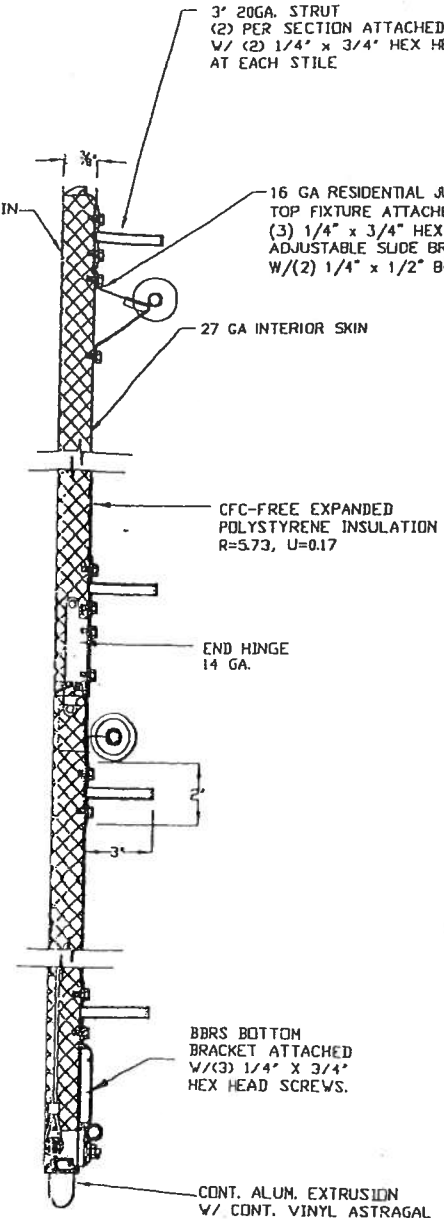
MODEL #1500 WeatherGuard

SIZE	DRAWN BY	DLJ	DATE	04/16/01	DRAWING NUMBER
B	CHECKED BY		DATE		SBC-580-019-J
SCALE: NOT TO SCALE					SHEET 1 OF 1



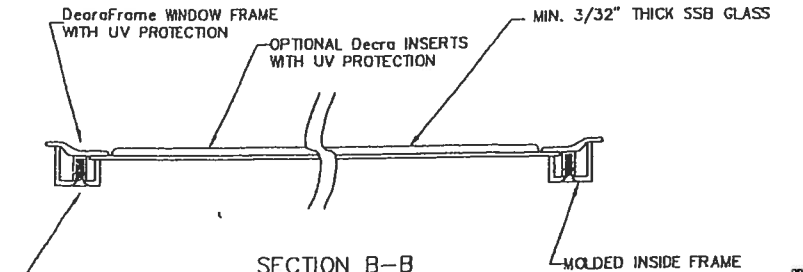


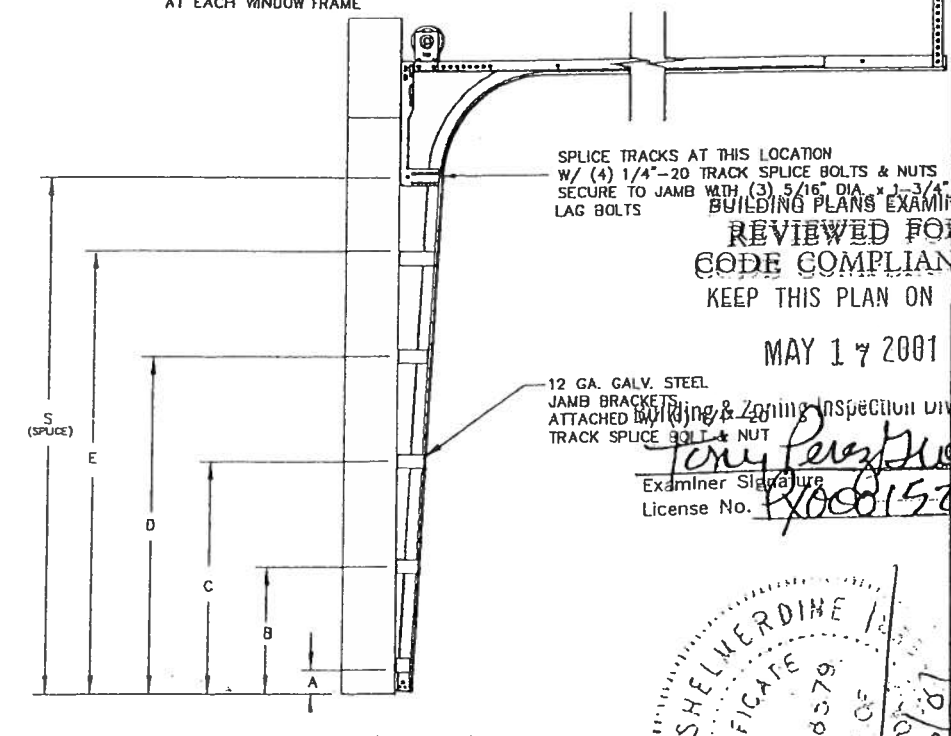




GLAZING OPTION CROSS SECTION

TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' X 7' AND 16' X 8' MODEL 1500-D DOORS.



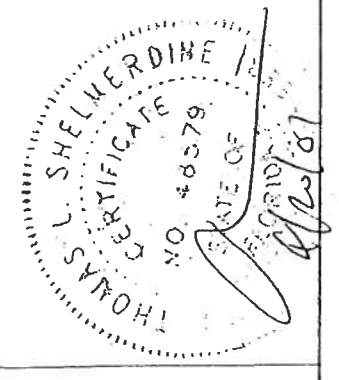


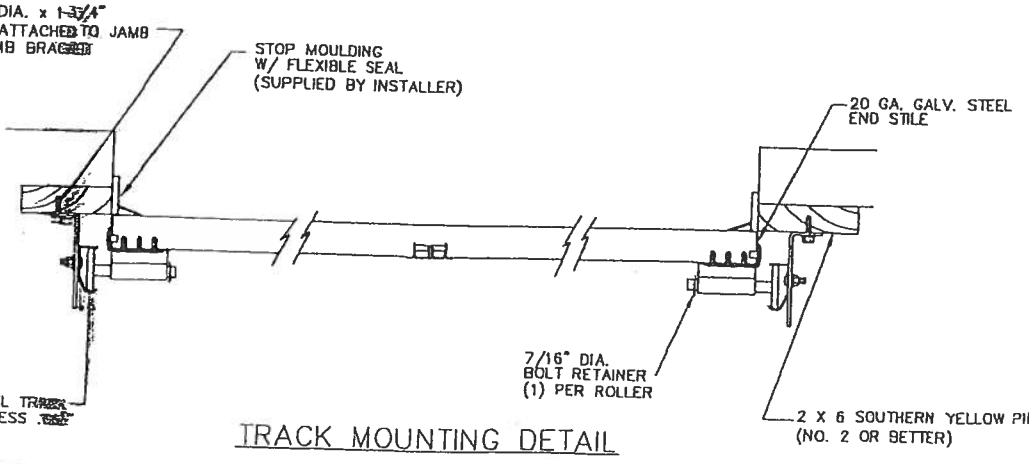
TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"

BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div. Jax., FL.
Examiner Signature
License No. RX0001570





TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.016") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   - A. BASIC WIND SPEED OF 110 MPH
   - B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   - C. 15° MEAN ROOF HEIGHT AT ANY SLOPE
   - D. USE FACTOR OF 1.0
   - E. EXPOSURE RATING OF C

MAX SIZE 16' x 8'

DESIGN LOADS +29.5 PSF -29.5 PSF

TEST LOADS +45.3 PSF -45.3 PSF

REV	DESCRIPTION OF REVISIONS	DATE	BY

Amarr GARAGE DOORS
5501 GRASSY CREEK BLVD WINSTON-SALEM, N.C. 27105

MODEL #1500 WeatherGuard

SIZE	DRAWN BY DLJ	DATE 04/18/01	DRAWING NUMBER
B	CHECKED BY	DATE	SBC-580-019-J
SCALE: NOT TO SCALE			SHEET 1 OF 1