D. 03/19/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026861

APPLICANT MARYANN CRAWFORD PHONE 752-5152

ADDRESS 853 SW SISTERS WELCOME RD LAKE CITY FL 32025

OWNER DONALD & DENIECE WELTZBARKER PHONE 497-2089

ADDRESS 2134 SW CR 18 FT. WHITE FL 32038

CONTRACTOR STANLEY CRAWFORD PHONE 752-5152

LOCATION OF PROPERTY 47S, TL ON SR 27, TL ON CR 18, 3RD LOT ON RIGHT
PAST CR 131,OR 1/4 MILE PAST CR 131

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 25000.00

HEATED FLOOR AREA 680.00 TOTAL AREA 680.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 19

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

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 29-6S-17-09807-106 SUBDIVISION THE MEADOWS OF TUSKENUGGEE

LOT 6 BLOCK PHASE UNIT TOTAL ACRES 5.00

		RG0042896		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
EXISTNG	08-237	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 164

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 $ 125.00 CERTIFICATION FEE $ 3.40 SURCHARGE FEE $ 3.40

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 206.80

INSPECTORS OFFICE Hale Tedder 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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

This instrument was Prepared By:
Stanley Crawford Construction, Inc.
853 S.W. Sisters Welcome Rd.
Lake City, Florida 32025

PERMIT NO._____ TA

Inst:200812004424 Date:3/4/2008 Time:12:22 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

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, Florida Statutes, the following information Is provided in this Notice of Commencement.

1. Description of property: The Meadows of Tuskenoogee, Lot 6
   2134 S.W. CR 18, Ft. White, FL 32038

2. General description of improvement: Addition to Existing Dwelling

3. Owner information:
   Name and address: Donald and Deniece Weltzbarker
   2134 S.W. CR 18
   Ft. White, FL 32038

   b. Interest in property: Fee Simple

   c. Name and address of fee simple title holder (if other Than owner): NONE

Contractor: Stanley Crawford Construction, Inc.
853 S.W. Sisters Welcome Rd.
Lake City, FL 32025

5. Surety N/A
   a. Name and address:
   b. Amount of bond:

6. Lender: N/A

7. Persons within the State of Florida designated by Owner upon whom notices Or other documents may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes : NONE

8. In addition to himself, Owner designates _____ _____ to receive a copy of the Lienor's Notice as provided in section 713.13 (1) (b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from The date of recording unless a different date is specified).

Don Weltzbarker

_____

The foregoing instrument was acknowledged before me this 29th day of February, 2008, by Donald J. Weltzbarker, who are personally known to me and who did not take an oath.

Janet L. Cheek
Notary Public
My Commission Expires: June 25, 2011

JANET L. CHEEK
MY COMMISSION # DD 673854
EXPIRES: June 25, 2011
Bonded Thru Notary Public Underwriters

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 29-6S-17-09807-106 **Building permit No.** 000026861

Use Classification ADDITION TO SFD **Fire:** 0.00

Permit Holder STANLEY CRAWFORD **Waste:**

Owner of Building DONALD & DENIECE WELTZBARKER **Total:** 0.00

Location: 2134 SW CR 18, FT. WHITE, FL

Date: 06/04/2008

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

FORM 600A-2004R EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Crawford- Weltzbarker addition**	Builder:	**SCCI**
Address:		Permitting Office:	
City, State:	,	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	Addition	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 18.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	680 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) 93.0 ft²	a. Electric Heat Pump	Cap: 18.0 kBtu/hr
b. SHGC:			HSPF: 7.70
(or Clear or Tint DEFAULT)	7b. (Clear) 93.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 104.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 700.0 ft²		EF: 0.92
b. N/A		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, 680.0 ft²	15. HVAC credits	
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, 77.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.14 Total as-built points: 11383 Total base points: 11808 **PASS**

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

PREPARED BY: Sunstar Insulators

DATE: 2-25-08

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: , , , 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 cir 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: , , , 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	
2		2635.00	5270.0	40.0	0.92	2	1.00	2635.00	1.00	5270.0	
				As-Built Total:						**5270.0**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	Heating Points	Hot Water Points	Total Points	Cooling Points	Heating Points	Hot Water Points	Total Points
2550	**3988**	**5270**	**11808**	**2269**	**3844**	**5270**	**11383**

PASS

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**7198.8**	**Winter As-Built Points:**					**7469.2**
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 18000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			7469.2	1.000	(1.069 x 1.169 x 0.93) 0.443		1.000	3844.3
7198.8	**0.5540**	**3988.1**	**7469.2**	**1.00**	**1.162**	**0.443**	**1.000**	**3844.3**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , 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	680.0	20.17	2469.0	1.Double, Clear	W	2.0	5.0	30.0	20.73	1.06	658.0	
				2.Double, Clear	E	2.0	5.0	39.0	18.79	1.08	794.0	
				3.Double, Clear	N	2.0	5.0	15.0	24.58	1.01	371.0	
				4.Double, Clear	S	2.0	5.0	9.0	13.30	1.40	167.0	
				As-Built Total:				**93.0**			**1990.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	700.0	3.40		2380.0	
Exterior	700.0	3.70	2590.0									
Base Total:	**700.0**		**2590.0**	**As-Built Total:**				**700.0**			**2380.0**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM	=	Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				18.0	8.40		151.2	
Exterior	18.0	12.30	221.4									
Base Total:	**18.0**		**221.4**	**As-Built Total:**				**18.0**			**151.2**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =		Points	
Under Attic	680.0	2.05	1394.0	1. Under Attic			30.0	680.0	2.05 X 1.00		1394.0	
Base Total:	**680.0**		**1394.0**	**As-Built Total:**				**680.0**			**1394.0**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points	
Slab	104.0(p)	8.9	925.6	1. Slab-On-Grade Edge Insulation			0.0	104.0(p	18.80		1955.2	
Raised	0.0	0.00	0.0									
Base Total:			**925.6**	**As-Built Total:**				**104.0**			**1955.2**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM	=	Points	
	680.0	-0.59	-401.2					680.0	-0.59		-401.2	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 7846.0			**Summer As-Built Points:**					**7671.2**
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 18000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
7846.0	0.3250	2549.9	7671 **7671.2**	1.00 **1.00**	(1.09 x 1.147 x 0.91) **1.138**	0.260 **0.260**	1.000 **1.000**	2269.2 **2269.2**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , 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	680.0	18.59	2275.0	1.Double, Clear	W	2.0	5.0	30.0	38.52	0.80	923.0	
				2.Double, Clear	E	2.0	5.0	39.0	42.06	0.80	1307.0	
				3.Double, Clear	N	2.0	5.0	15.0	19.20	0.87	250.0	
				4.Double, Clear	S	2.0	5.0	9.0	35.87	0.72	233.0	
				As-Built Total:				**93.0**			**2713.0**	
WALL TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	700.0	1.50		1050.0	
Exterior	700.0	1.70	1190.0									
Base Total:	**700.0**		**1190.0**	**As-Built Total:**				**700.0**			**1050.0**	
DOOR TYPES	Area X	BSPM	= Points	Type				Area X	SPM	=	Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				18.0	4.10		73.8	
Exterior	18.0	6.10	109.8									
Base Total:	**18.0**		**109.8**	**As-Built Total:**				**18.0**			**73.8**	
CEILING TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM X SCM	=	Points	
Under Attic	680.0	1.73	1176.4	1. Under Attic			30.0	680.0	1.73 X 1.00		1176.4	
Base Total:	**680.0**		**1176.4**	**As-Built Total:**				**680.0**			**1176.4**	
FLOOR TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Slab	104.0(p)	-37.0	-3848.0	1. Slab-On-Grade Edge Insulation			0.0	104.0(p	-41.20		-4284.8	
Raised	0.0	0.00	0.0									
Base Total:			**-3848.0**	**As-Built Total:**				**104.0**			**-4284.8**	
INFILTRATION	Area X	BSPM	= Points					Area X	SPM	=	Points	
	680.0	10.21	6942.8					680.0	10.21		6942.8	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.3

The higher the score, the more efficient the home.

1.	New construction or existing		Addition		
2.	Single family or multi-family		Single family		
3.	Number of units, if multi-family		1		
4.	Number of Bedrooms		2		
5.	Is this a worst case?		Yes		
6.	Conditioned floor area (ft²)		680 ft²		
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description	Area		
	(or Single or Double DEFAULT)	7a.	(Dble Default) 93.0 ft²		
	b. SHGC:				
	(or Clear or Tint DEFAULT)	7b.	(Clear) 93.0 ft²		
8.	Floor types				
	a. Slab-On-Grade Edge Insulation		R=0.0, 104.0(p) ft		
	b. N/A				
	c. N/A				
9.	Wall types				
	a. Frame, Wood, Exterior		R=13.0, 700.0 ft²		
	b. N/A				
	c. N/A				
	d. N/A				
	e. N/A				
10.	Ceiling types				
	a. Under Attic		R=30.0, 680.0 ft²		
	b. N/A				
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 77.0 ft		
	b. N/A				

12.	Cooling systems		
	a. Central Unit	Cap: 18.0 kBtu/hr	
		SEER: 13.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 18.0 kBtu/hr	
		HSPF: 7.70	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 40.0 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)		

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: _____

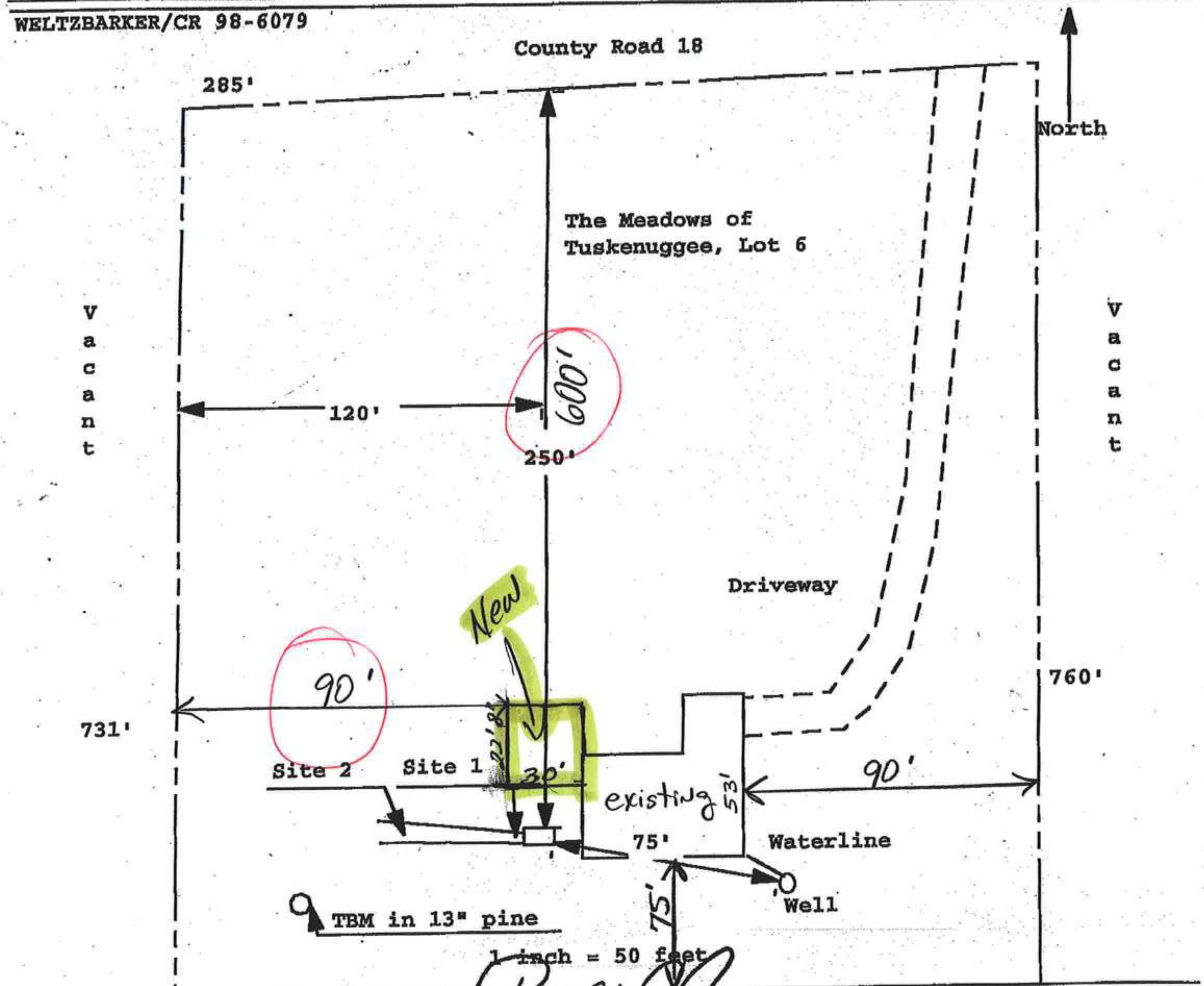
**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if 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.

Construction Permit. Part II Site Plan

Permit Application Number: ____________

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd Date 6/15/99

Plan Approved ✓ Not Approved ______ Date 6/15/99

By Paul Lloyd / [signature] 6-15-99 Columbia CPHU

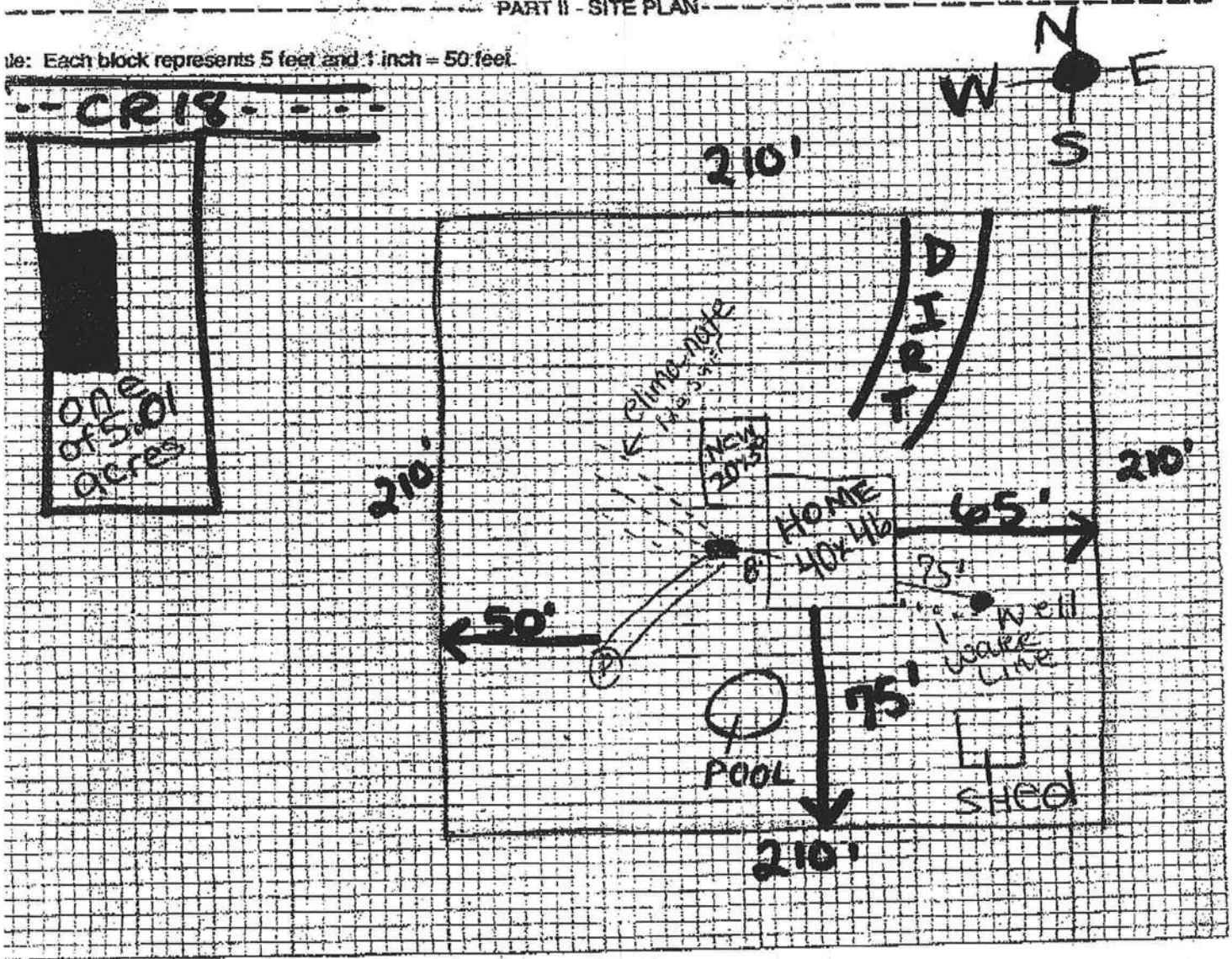
Notes: ____________

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0237

PART II - SITE PLAN

ale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: Donald Weitzbarker

Site Plan submitted by: Ford's Septic Inc Ford
Signature

MASTER
Title

Plan Approved ✓ Not Approved ____

Date 3/18/08

By ____ Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Pd. 10.50
Pd. 195.30

BK 0875 PG 0149

OFFICIAL RECORDS

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

99-02927

FILED AND RECORDED IN PUBLIC RECORDS OF COLUMBIA COUNTY, FL

1999 FEB 22 PM 3:09

RECORD VERIFIED

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Grantee No. 1 S.S. No. 261-66-7420

Grantee No. 2 S.S. No. 265-80-5226

Property Appraiser's
Parcel Identification No.
29-6S-17-09807-106

Documentary Stamp $ 195.30
Intangible Tax
P. DeWitt Cason
Clerk of Court
By D.C.

WARRANTY DEED

THIS INDENTURE, made this 19th day of February 1999, between A BAR S LAND & CATTLE COMPANY, a corporation existing under the laws of the State of Florida, whose post office address is Post Office Box 830, Lake City, Florida 32056, and having its principal place of business in the County of Columbia, State of Florida, party of the first part, and DONALD F. WELTZBARKER and his wife, DENIECE A. WELTZBARKER, whose post office address is 1906 North Franklin Street, Plant City, Florida 33566 of the County of Hillsborough, State of Florida, parties of the second part,

WITNESSETH: that the said party of the first part, for and in consideration of the sum of Ten Dollars ($10.00), to it in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, remised, released, conveyed and confirmed, and by these presents doth grant, bargain, sell, alien, remise, release, convey and confirm unto the said parties of the second part, and their heirs and assigns forever, all that certain parcel land lying and being in the County of Columbia and State of Florida, more particularly described as follows:

> Lot 6 of THE MEADOWS OF TUSKENOOGEE, a subdivision according to the plat thereof recorded in Plat Book 6, Page 203 of the public records of Columbia County, Florida.
>
> SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

TOGETHER with all the tenements, hereditaments and appurtenances, with every privilege, right, title, interest and estate, reversion, remainder and easement thereto belong or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

And the said party of the first part doth covenant with said parties of the second part that it is lawfully seized of said premises; that they are free of all encumbrances, and that it has good right and lawful authority to sell the same; and the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be signed in its name by its President, and its corporate seal to be affixed the day and year above written.

Signed, sealed and delivered in our presence:

A BAR S LAND & CATTLE COMPANY

(First Witness)
Terry McDavid
Printed Name

By: Ron W. Turbeville, President

(CORPORATE SEAL)

(Second Witness)
Myrtle Ann McElroy
Printed Name

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 19th day of February 1999, by RON W. TURBEVILLE, President of A BAR S LAND & CATTLE COMPANY, a Florida corporation, on behalf of said corporation. He is personally known to me and did not take an oath.

Notary Public
My Commission Expires:

MYRTLE ANN MCELROY
MY COMMISSION # CC 783549
EXPIRES: February 12, 2003
Bonded Thru Notary Public Underwriters

BK 0875 PG 0150 OFFICIAL RECORDS

Columbia County Building Permit Application

For Office Use Only Application # 0803-05 Date Received 3/4 By JW Permit # 26861

Zoning Official BLK Date 3.03.08 Flood Zone X FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE N/A River N/A Plans Examiner OK TH Date 3-13-08

Comments

✓ NOC ✓ EH ~~Deed or PA~~ ~~Site Plan~~ ✓ State Road Info □ Parent Parcel #

□ Dev Permit # □ In Floodway □ Letter of Authorization from Contractor

□ Unincorporated area □ Incorporated area □ Town of Fort White □ Town of Fort White Compliance letter

Septic Permit No. Fax (386) 755-2165

Name Authorized Person Signing Permit Mary ANN Crawford Phone (386) 752-5152

Address 853 S.W. Sisters Welcome Rd. Lake City, FL 32025

Owners Name Donald & Deniece Weltzbarker Phone (386) 497-2089

911 Address 2134 S.W. CR 18 Ft. White, FL. 32038

Contractors Name Stanley Crawford Construction, ~~INC~~ Phone (386) 752-5152

Address 853 S.W. Sisters Welcome Rd. Lake City, FL 32025

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address William Myers P.O. Box 1513 Lake City, FL 32056

Mortgage Lenders Name & Address None

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

Property ID Number 29-6S-17-09807-106 Estimated Cost of Construction $25,000.00

Subdivision Name The Meadows of Tuskenoogee Lot 6 Block Unit Phase

Driving Directions SR 47, turn left on SR 27, turn left on CR 18 - 1/4 mile on left past CR 131. Light

Number of Existing Dwellings on Property 1

Construction of House Addition to existing Dwelling Total Acreage 5.01 Lot Size 5.01 Acres

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 19'

Actual Distance of Structure from Property Lines - Front 600 Side 90 Side 90 Rear 75

Number of Stories 1 Heated Floor Area 680 sq.ft. Total Floor Area 680 sq.ft. 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.

CR# 164

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:
YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Don F Wilfong
Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Stanley Crawford
Contractor's Signature (Permitee)

Contractor's License Number RG-0042896
Columbia County
Competency Card Number 5627

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 4th **day of** March **20**08.
Personally known ✓ **or Produced Identification** _____

Janet L. Cheek
State of Florida Notary Signature (For the Contractor)

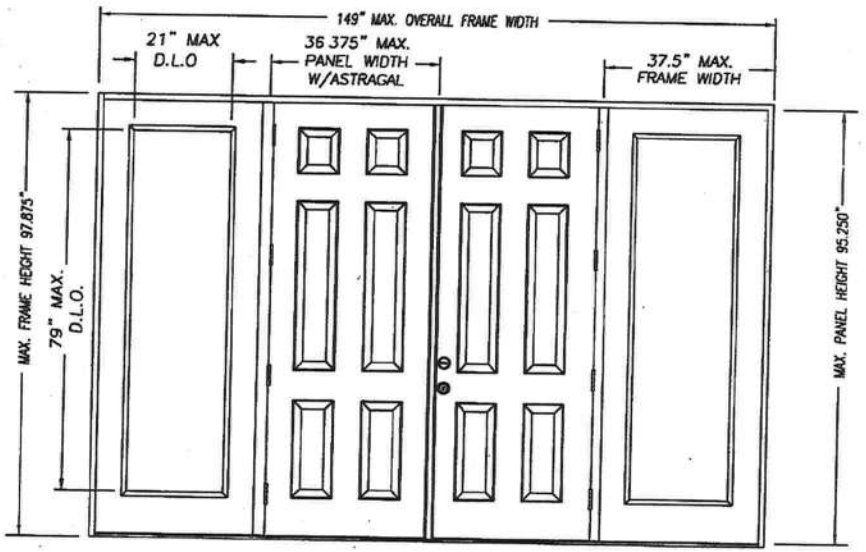
SEAL:

JANET L. CHEEK
MY COMMISSION # DD 673854
EXPIRES: June 25, 2011
Bonded Thru Notary Public Underwriters

8'

Masonite

SIDE-HINGED WOOD-EDGE STEEL DOOR UNIT
8'-0" DOUBLE DOOR WITH / WITHOUT SIDELITES



DOUBLE INSWING UNIT W/SIDELITES

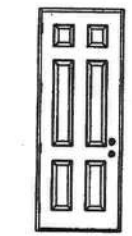
Addendum to NAMI
Certification No.: NT006110
Reviewed By:
Date Reviewed: 8/10/05

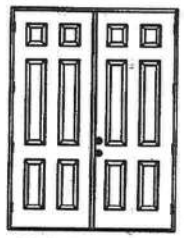
GENERAL NOTES

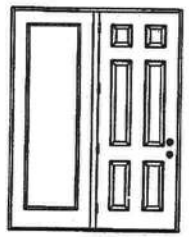
1. EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED.
2. HURRICANE PROTECTIVE SYSTEM (SHUTTERS) IS NOT REQUIRED ON OPAQUE PANELS, BUT IS REQUIRED ON GLAZED SIDELITES
3. POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84.
4. PLASTICS TESTING OF LITE FRAME MATERIAL:

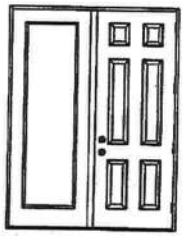
TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	680 °F > 650 °F
RATE OF BURNING	ASTM-D635	1.10 IN/MIN
SMOKE DENSITY	ASTM D2843	69.6%
TENSILE STRENGTH*	ASTM D638	-7.48% DIFF

* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING 4500 HOURS XENON ARC METHOD 1


SINGLE DOOR UNIT


DOUBLE DOOR UNIT


SINGLE DOOR UNIT WITH SIDELITE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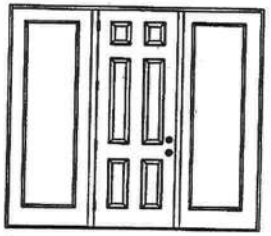

SINGLE DOOR UNIT W/SIDELITES

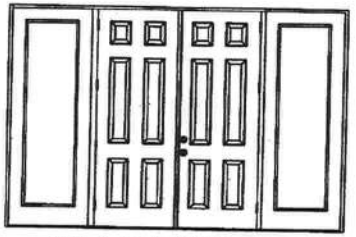

DOUBLE DOOR UNIT W/SIDELITES

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	ANCHORING LOCATIONS & DETAILS
3	ANCHORING LOCATIONS & DETAILS

CONFIG	MAX WIDTH	DESIGN PRESSURE RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE	
		INSWING	OUTSWING	INSWING	OUTSWING
X	37.5"	+70.0 / -70.0	+70.0 / -70.0	+19.0 / -19.0	+70.0 / -70.0
XX	74"	+45.0 / -50.0	+50.0 / -45.0	+19.0 / -19.0	+45.0 / -45.0
OX or XO	75"	+45.0 / -50.0	+50.0 / -45.0	+19.0 / -19.0	+45.0 / -45.0
OXO	112.5"	+45.0 / -50.0	+50.0 / -45.0	+19.0 / -19.0	+45.0 / -45.0
OXXO	149"	+45.0 / -50.0	+50.0 / -45.0	+19.0 / -19.0	+45.0 / -45.0

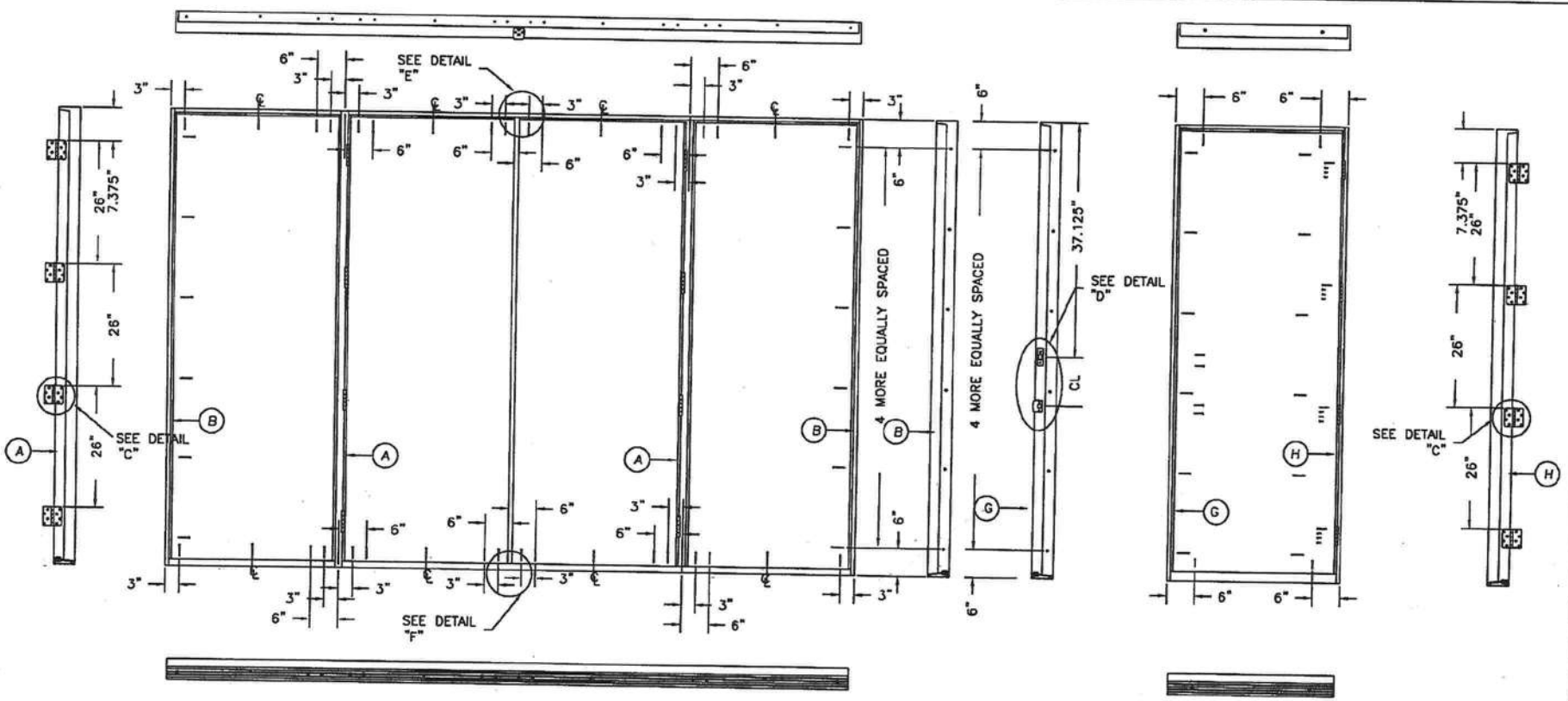
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

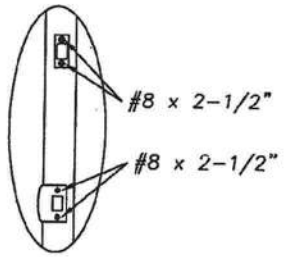
PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 8'0" OPAQUE WOOD-EDGE STEEL DOOR

PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES

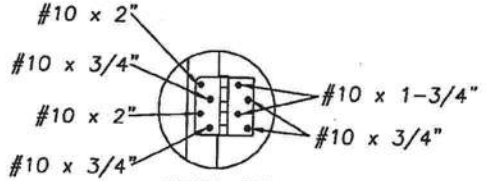
NO.	DATE	BY	REVISIONS

DATE: 7/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0129-05
SHEET 1 OF 3

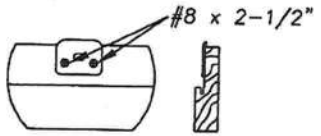




DETAIL "D"

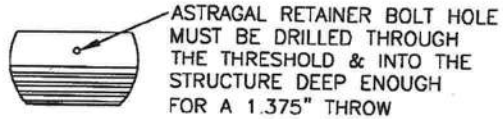


DETAIL "C"

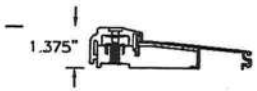


DETAIL "E" ASTRAGAL

ATTACH ASTRAGAL RETAINER BOLT STRIKE PLATE TO FRAME AS SHOWN.



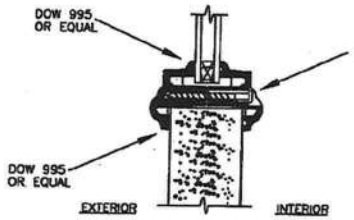
DETAIL "F" ASTRAGAL



INSWING THRESHOLD

OUTSWING THRESHOLD

Addendum to NAMI
Certification No.: NT006110
Reviewed By:
Date Reviewed: 8/10/05



TYPICAL GLAZING DETAIL

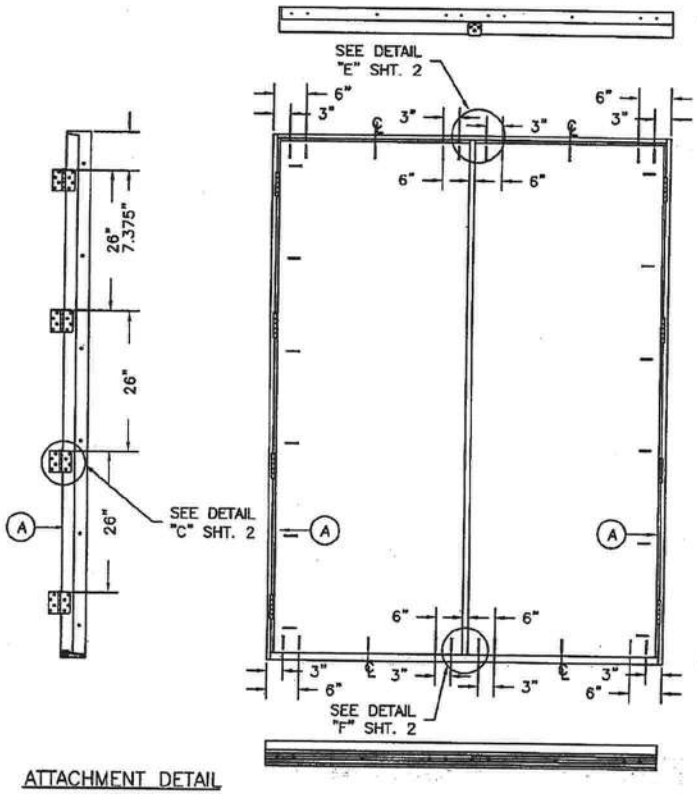
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

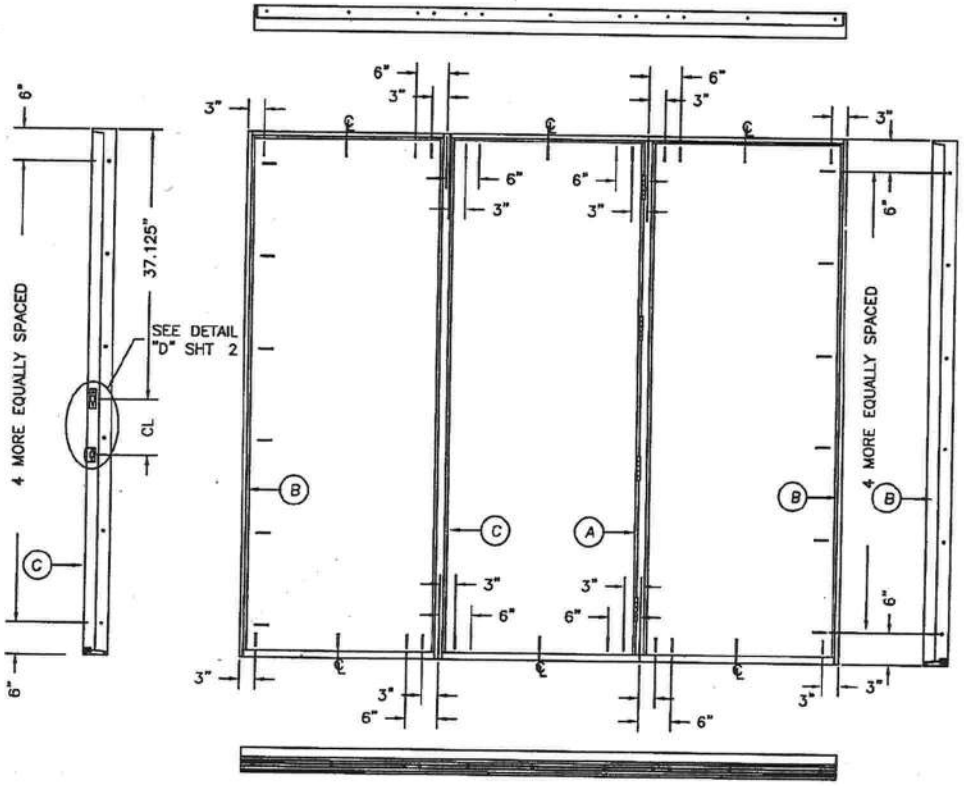
PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 8'0" OPAQUE WOOD-EDGE STEEL DOOR

PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS

REVISIONS			
NO.	DATE	BY

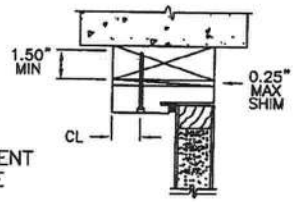
DATE: 7/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0129-05
SHEET 2 OF 3





ATTACHMENT DETAIL

1. ANCHOR ANALYSIS FOR LOADING CONDITIONS PREPARED, SIGNED AND SEALED BY HAROLD E. RUPP, PE (FLORIDA #15935) WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ANALYZED FOR THIS UNIT INCLUDE #10 WOOD SCREWS OR 3/16" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION.
2. THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHEIVEMENT OF 1-1/2" MINIMUM EMBEDMENT. THE TAPCON MUST ACHIEVE MINIMUM EMBEDMENT OF 1-1/4".
3. WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
4. MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 171 LBS.



TYPICAL ANCHOR INSTALLATION

HARDWARE SCHEDULE

1.	KWIKSET OR SCHLEGE ANSI/BHMA GRADE 3 OR BETTER CYLINDRICAL AND DEADLOCK HARDWARE TO BE INSTALLED AT 10-1/2" CENTERLINE.
1a.	KWIKSET OR SCHLEGE ANSI/BHMA GRADE 3 OR BETTER CYLINDRICAL AND DEADLOCK HARDWARE TO BE INSTALLED AT 5-1/2" CENTERLINE WITH 8" GRADE 1 (ANSI/BHMA A156.16) SURFACE BOLTS INSTALLED ON LATCH SIDE OF ACTIVE DOOR PANEL - (1) AT TOP AND (1) AT BOTTOM.
2.	4" X 4" FULL MORTISE BUTT HINGES

Addendum to NAMI

Certification No.: NI006110
Reviewed By:
Date Reviewed: 8/10/05

MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: "EXTERIOR DOOR PRODUCT" 8'0 WOOD-EDGE STEEL OPAQUE DOUBLE DOOR UNIT

PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS

NO.	DATE	BY	REVISIONS

DATE: 7/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0129-05
SHEET 3 OF 3

The Florida Department of Community Affairs
Building Code Information System

SITE NAVIGATION

Home

Course Accreditation

Florida Building Code

Manufact. Buildings

Prototype Building

Surcharges

Training

Product Approval

License Search

Mailing List

Florida Building Commission

PRODUCT APPROVAL

Product Type Detail

Overview | Product Search | Organization Search | Product Application

User: Public User - Not Associated with Organization -

Need Help ?

Application #:	FL4904
Date Submitted:	07/25/2005
Code Version:	2004
Product Manufacturer:	Masonite International
Address/Phone/email:	One North Dale Mabry Suite 950 Tampa, FL 33609 (615) 441-4258
Category:	Exterior Doors
Subcategory:	Swinging
Evaluation Method:	Certification Mark or Listing

Referenced Standards from the Florida Building Code:

Section	Standard	Year
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994
	ASTM E1300	1998
	ASTM E1300	2002

Section 2612 HVHZ PI

Certification Agency:	National Accreditation & Management Institute,
Quality Assurance Entity:	
Validation Entity:	
Authorized Signature:	Steve Schreiber sschreiber@masonite com

Evaluation/Test Reports Uploaded:

Installation Documents Uploaded: PTID_4904_I_Install 68 WE Glazed.pdf
PTID_4904_I_Install 68 WE Opaque.pdf
PTID_4904_I_Install 80 WE Glazed.pdf
PTID_4904_I_Install 80 WE Opaque.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 09/27/2005
Date Approved: 10/06/2005
Date Certified to the 2004 Code:

Page: Go

Page 1 / 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
4904 1	Wood-edge Steel Side-Hinged Door Units	6'-8" Opaque I/S and O/S Single Door	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 3'-0" x 6'-8" max nominal size Max DP = +/- 76.0. When large missile impact resistance is required, hurricane protective system is NOT required. See installation drawing DWG-MA-FL0128-05 for additional information.
4904.2	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque I/S and O/S Single Door	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 3'-0" x 8'-

			0" max nominal size Max DP = +/- 70.0. When large missile impact resistance is required, hurricane protective system is NOT required. See installation drawing DWG-MA-FL0129-05 for additional information.
4904.3	Wood-edge Steel Side-Hinged Door Units	6'-8" Opaque I/S and O/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Max DP = +/- 55.0. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See installation drawing DWG-MA-FL0128-05 for additional information.
4904.4	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque I/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed 12'-0" x 8'-0" max nominal size. Max DP = + 45.0 / -50.0. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See installation drawing DWG-MA-FL0129-05 for additional information.
			Evaluated for use in

4904.5	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque O/S w/ or w/o Sidelites	locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Max DP = + 50.0 / -45.0. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See installation drawing DWG-MA-FL0129-05 for additional information.
4904.6	Wood-edge Steel Side-Hinged Door Units	6'-8" Glazed I/S and O/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Max DP = +/- 50 5. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0130-05 for additional information.
4904.7	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed I/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed 12'-0" x 8'-0" max nominal size

			Max DP = +40 0 / -45.0. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0131-05 for additional information.
4904 8	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed O/S Door w/ or w/o Sidelites	Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Max DP = + 45.0 / -40.0. When large missile impact resistance is required, hurricane protective system is required. See installation drawing DWG-MA-FL0131-05 for additional information.

Next

FLORIDA DEPARTMENT OF
Community Affairs

Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Search Criteria			
Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Elk Corpor.
Category	Roofing	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validated By
FL586-R2 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Asphalt Shingles	
FL728-R1 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Asphalt Shingles	*
FL1476-R2 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Asphalt Shingles	
FL2143-R2 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Asphalt Shingles	
FL3453-R1 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Underlayments	
FL3461-R2 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Underlayments	PRI Asphalt Technologies, Inc (813) 621-5777
FL5178	New	Elk Corporation **Category:** Roofing **Subcategory:** Other	
FL5511-R1 History	Revision	Elk Corporation **Category:** Roofing **Subcategory:** Underlayments	
FL5524	New	Elk Corporation **Category:** Roofing **Subcategory:** Asphalt Shingles	
FL5683	New	Elk Corporation **Category:** Roofing **Subcategory:** Asphalt Shingles	
FL5783	New	Elk Corporation **Category:** Roofing	PRI Asphalt Technologies, Inc (813) 621-5777

ELK

PRESTIQUE®
HIGH DEFINITION®

RAISED PROFILE®

Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size 13¼" x 39¾"
Exposure 5⅝"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 11

50-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 110 mph***

Prestique I *High Definition*

Product size 13¼" x 39¾"
Exposure 5⅝"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 14

40-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 90 mph***

Prestique *High Definition*

Product size 13¼" x 38⅝"
Exposure 5⅝"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 60 mph.

Raised Profile

Product size 13¼" x 38⅝"
Exposure 5⅝"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

20-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 70 mph.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™
Size: 12"x 12"
Exposure: 6⅝"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Vented RidgeCrest™ w/FLX™
Size: 13"x13¼"
Exposure: 9⅞"
Pieces/Box: 28
Coverage: 5 boxes = 100 linear feet

Elk Starter Strip

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

Available Colors (Check Availability): 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, and Prestique Starter Strip roofing products contain sealant which 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.

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 have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and limitations.
** Effective January 1, 2004, the seven year non-prorated Underlite Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for each product. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment in all valleys. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MO, KS, CO, UT, NV, & OR.
***For a Raised Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 90 mph for Prestique I or Grande, at least six (6) properly placed NAILS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

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.

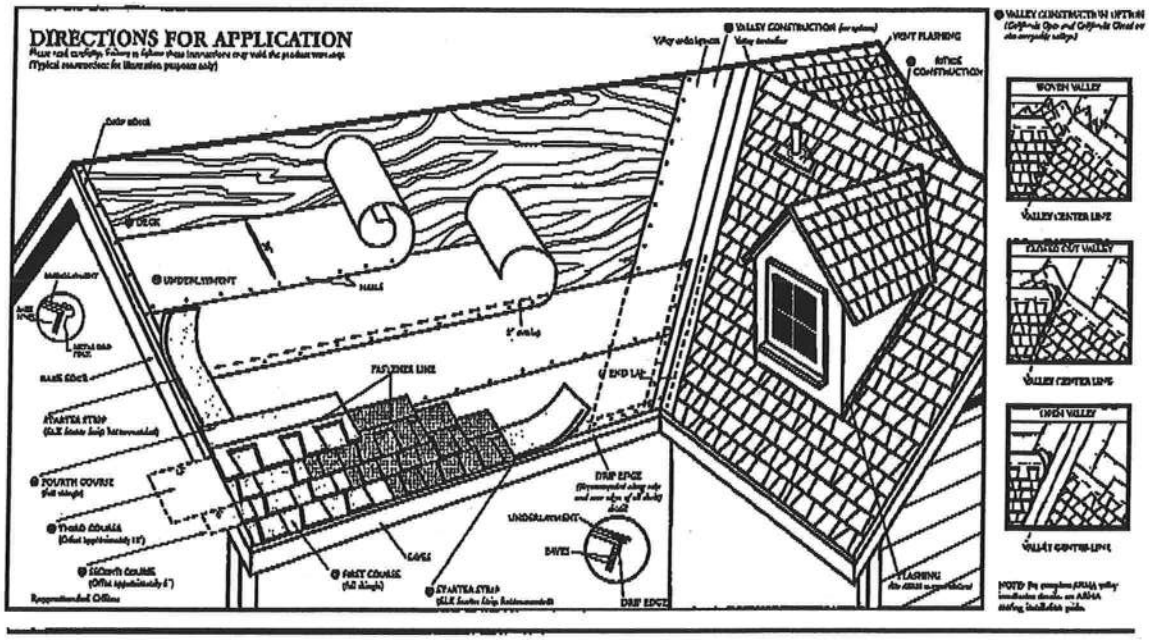
SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

ELK
The Premium Choice™
www.elkcorp.com

SS00T 06/04



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 8" 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). Elk Versashield® or self adhering underlayment is also acceptable. 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 Technical Services Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" trimmed from the end of the first shingle, start at the rake edge overhanging the eave and rake edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof

❺ SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater than 4"

❻ THIRD COURSE

Offset the next course by 6" with respect to the second course, or consistent with the original offset.

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. Offsets may be adjusted around valleys and penetrations.

❽ 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 metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❾ RIDGE CONSTRUCTION

For ridge construction Elk recommends Class "A" ZRidge or Seal-A-Ridge® with *formula FLX™* or RidgeCrest® with *FLX* (See ridge package for installation instructions). Vented RidgeCrest or 3-tab shingles are also approved.

FASTENERS

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

Using the fastener line as a reference, nail or staple the shingle in the double thickness common head area. For shingles without a fastener line, nails or staples must be placed between and/or in the 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. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MANSARD APPLICATIONS

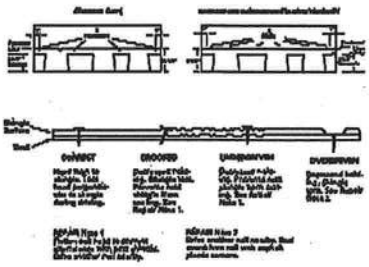
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only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

ELK
The Premium Choice™
www.elkcorp.com

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TFC8228Z0726173645

Truss Fabricator:	Anderson Truss Company
Job Identification:	8-066--Stanley Crawford Construc Weltzbarker -- Addition , **
Truss Count:	9
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.36.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 02/26/2008

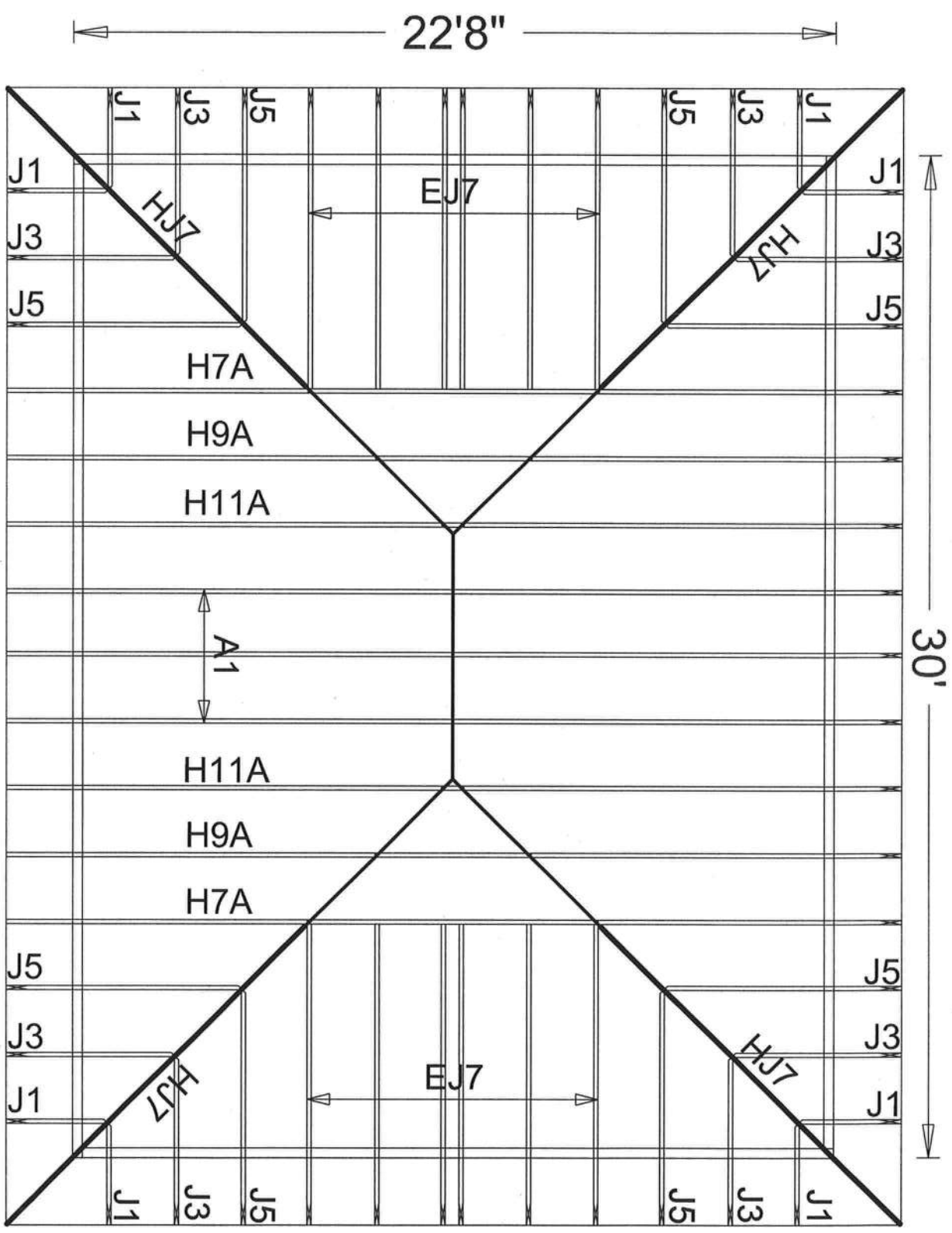
-Truss Design Engineer-
Doug Fleming
Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: -

#	Ref	Description	Drawing#	Date
1	99609	--H7A	08057018	02/26/08
2	99610	--H9A	08057019	02/26/08
3	99611	--H11A	08057020	02/26/08
4	99612	--A1	08057021	02/26/08
5	99613	--J1	08057045	02/26/08
6	99614	--HJ7	08057022	02/26/08
7	99615	--J3	08057044	02/26/08
8	99616	--J5	08057043	02/26/08
9	99617	--EJ7	08057046	02/26/08



#8-066
STANLEY CRAWFORD-
WELTZBARKER ADDITION

Roof Plane Sheathing Area = 1014 sq. ft
Gable Sheathing Area = 0 sq. ft
Total Sheathing Area = 1014 sq. ft
Fascia Material = 121 linear ft
Valley Flashing Material = 0 linear ft
Ridge Cap Material = 7 linear ft
Hip Ridge Material = 80 linear ft

JOB DESCRIPTION:: Stanley Crawford Construc
/: Weltzbarker

JOB NO:
8-066

PAGE NO:
1 OF 1

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

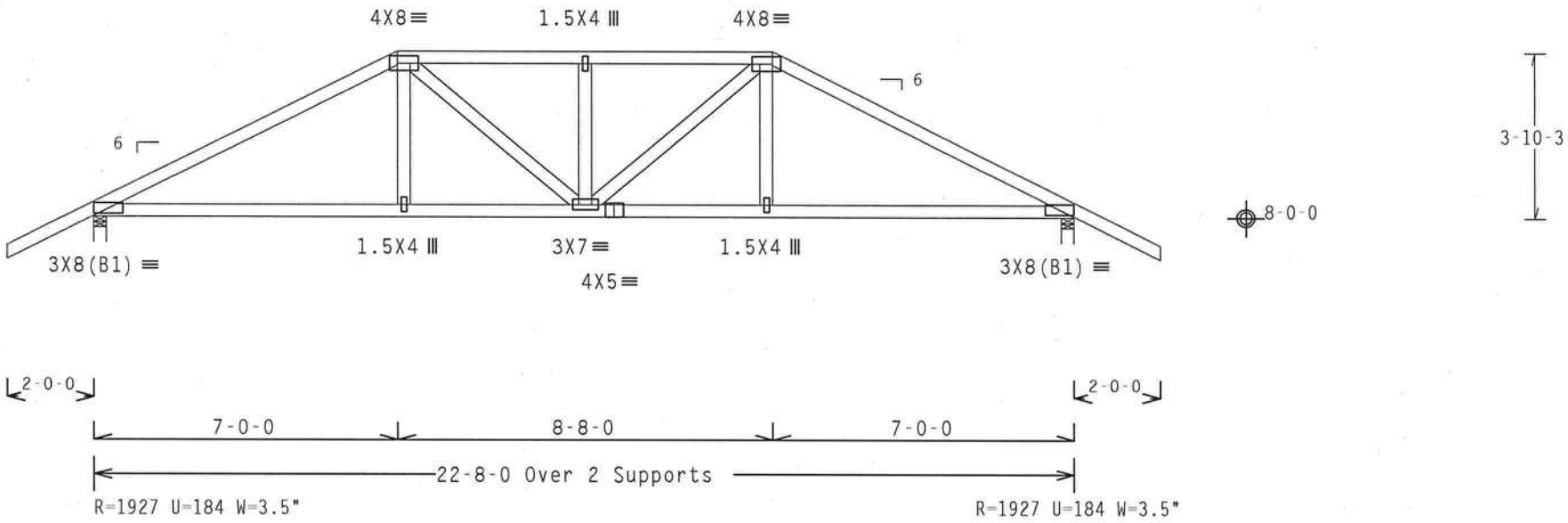
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

#1 hip supports 7-0-0 jacks with no webs.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '08

TC LL	20.0 PSF	REF	R8228- 99609
TC DL	10.0 PSF	DATE	02/26/08
BC DL	10.0 PSF	DRW	HCUSR8228 08057018
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	76808
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TFC8228Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

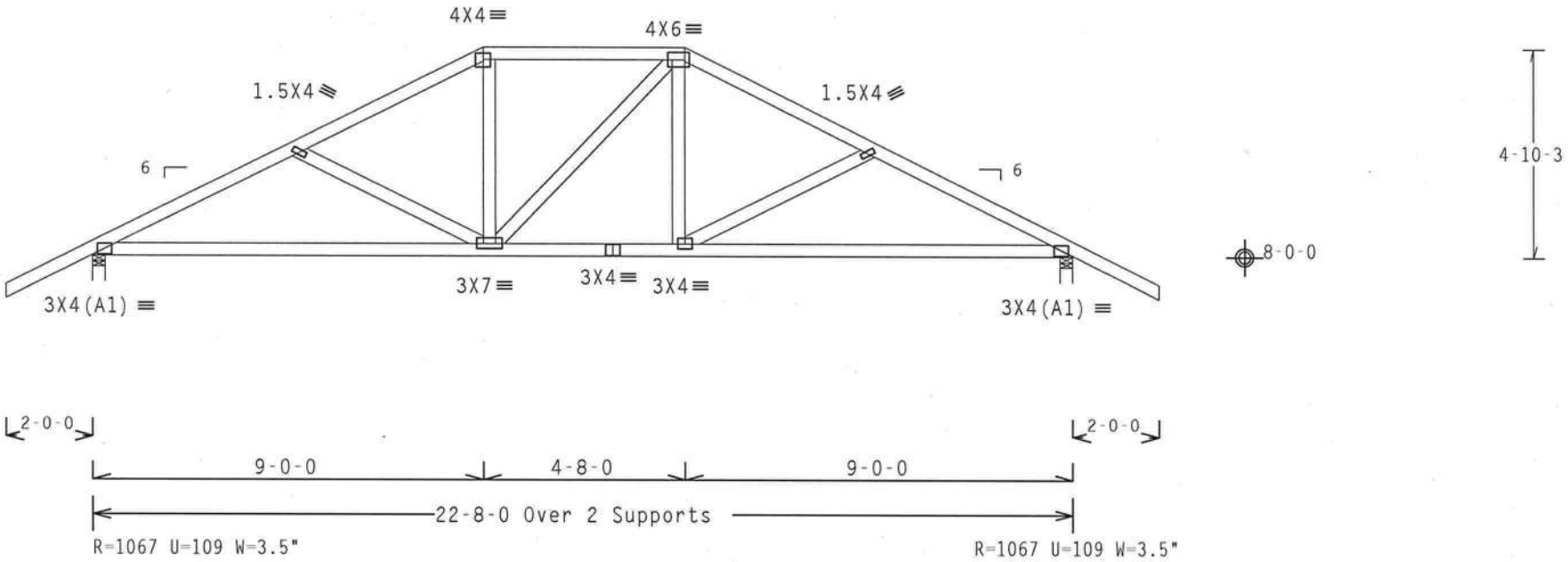
Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.36.04 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '08

TC LL	20.0 PSF	REF R8228- 99610
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057019
BC LL	0.0 PSF	HC-ENG DAL/DF *
TOT.LD.	40.0 PSF	SEQN- 76813
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TFC8228Z07

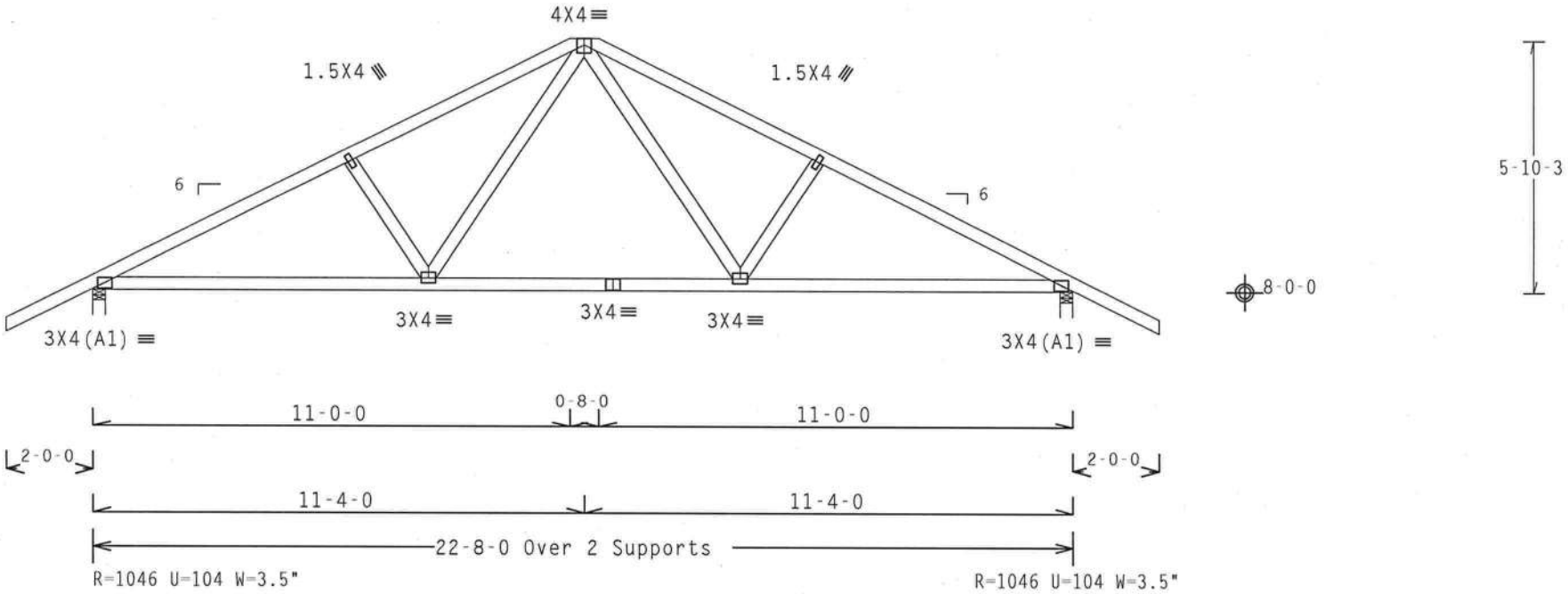
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.042 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '08

TC LL	20.0 PSF	REF R8228- 99611
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057020
BC LL	0.0 PSF	HC-ENG DAL/DF *
TOT.LD.	40.0 PSF	SEQN- 76818
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TFC8228Z07

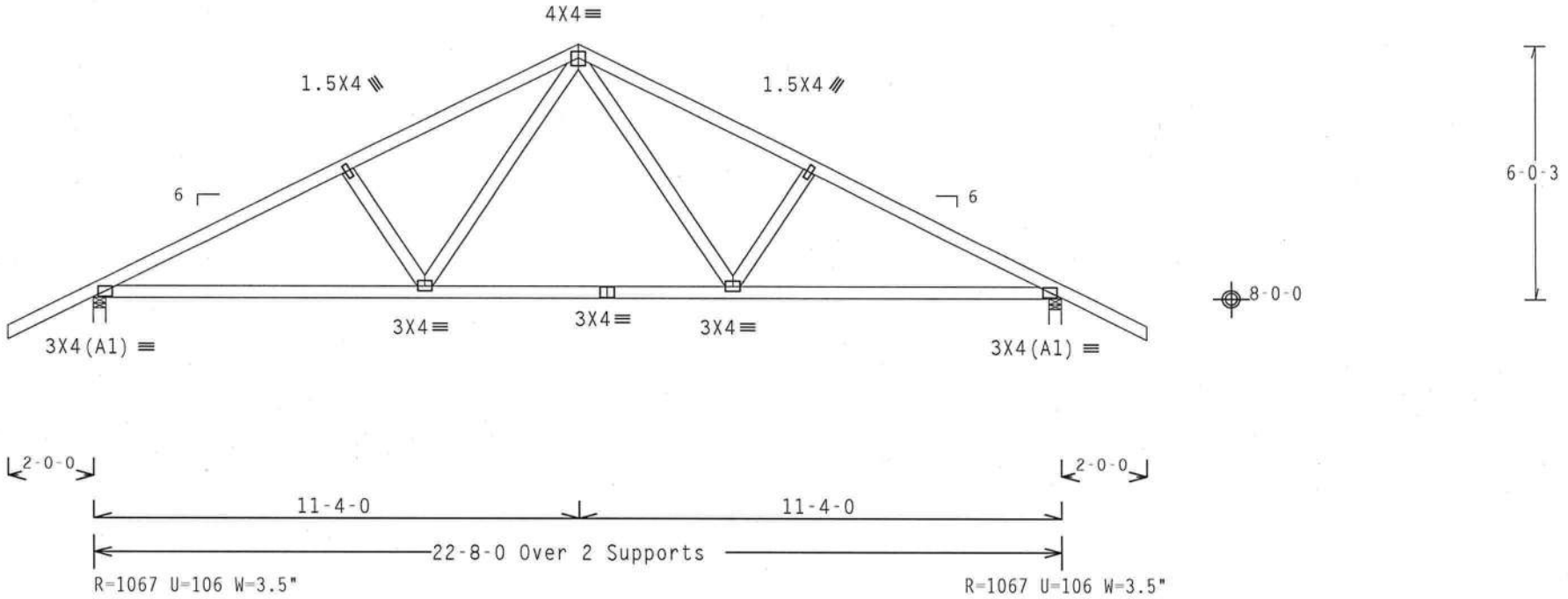
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.042

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '08

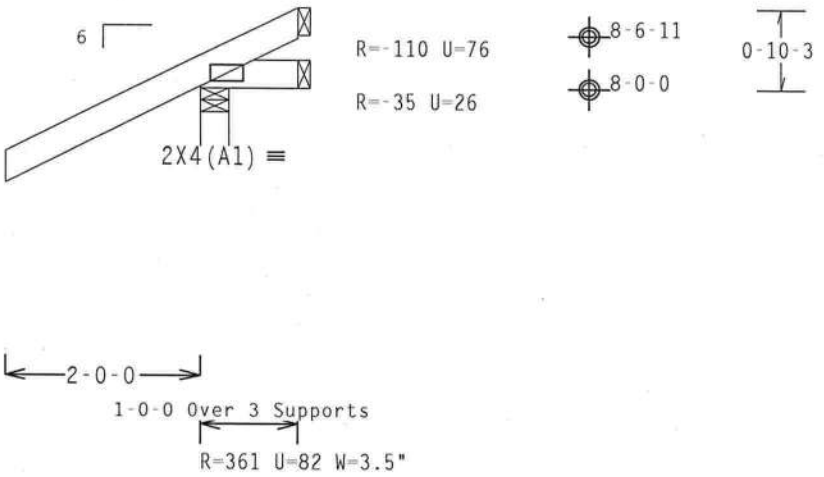
TC LL	20.0 PSF	REF R8228- 99612
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057021
BC LL	0.0 PSF	HC-ENG DAL/DF *
TOT.LD.	40.0 PSF	SEQN- 76823
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TFC8228Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
26 '08

TC LL	20.0 PSF	REF R8228- 99613
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057045
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEQN- 28209
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFC8228Z07

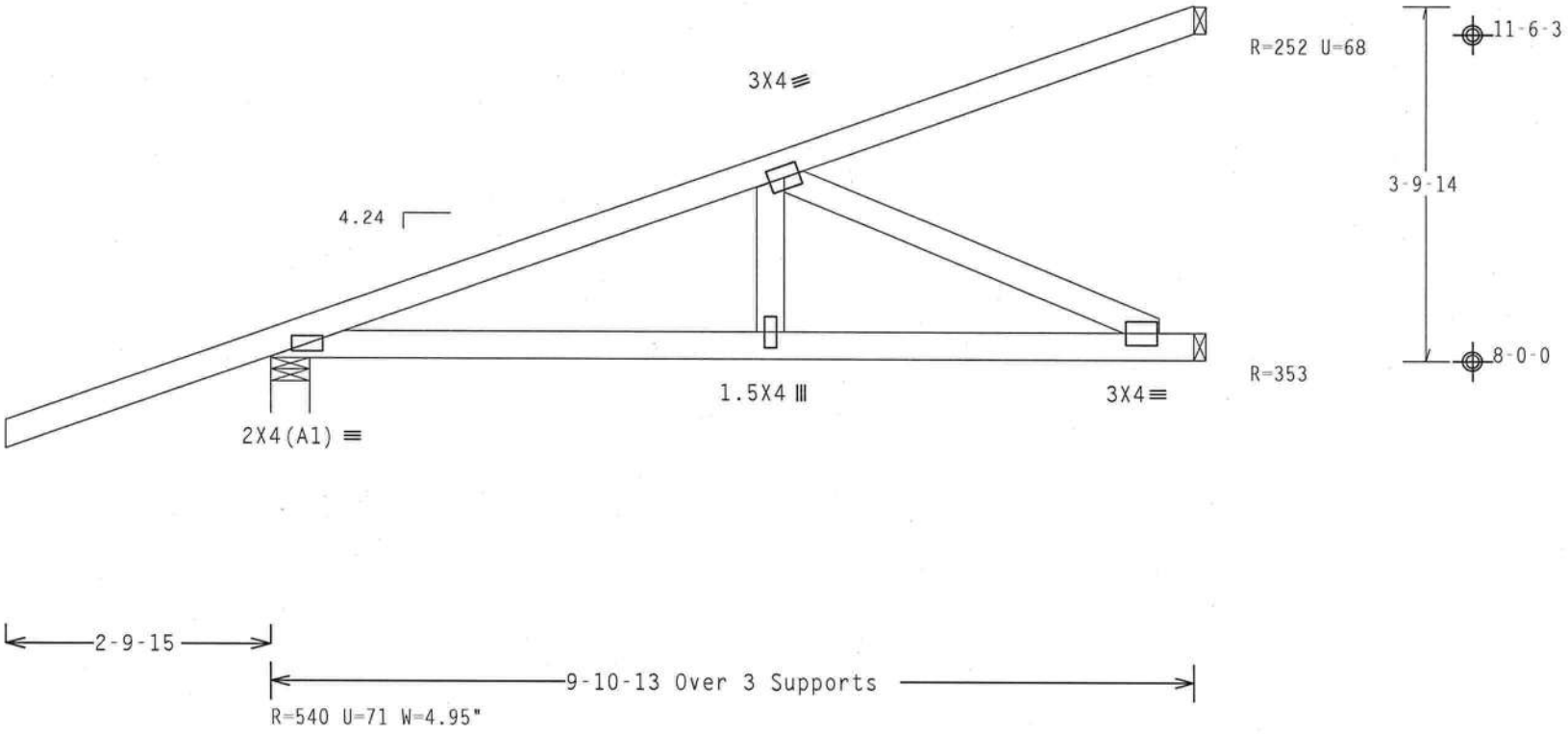
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Hipjack supports 7-0-0 setback jacks with no webs.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.36.042 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
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26 '08

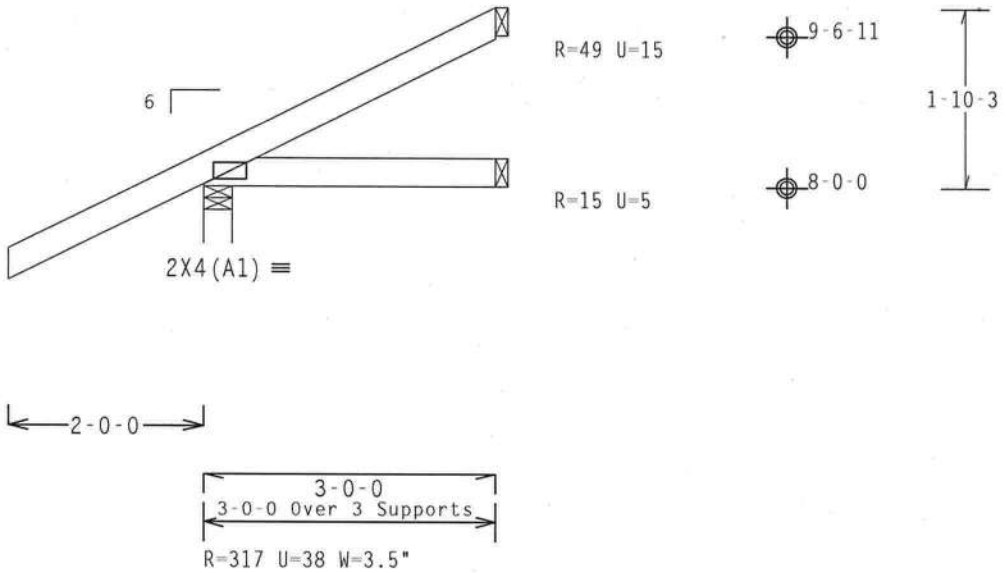
TC LL	20.0 PSF	REF R8228- 99614
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057022
BC LL	0.0 PSF	HC-ENG DAL/DF
TOT.LD.	40.0 PSF	SEQN- 76803
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TFC8228Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.043

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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26 '08

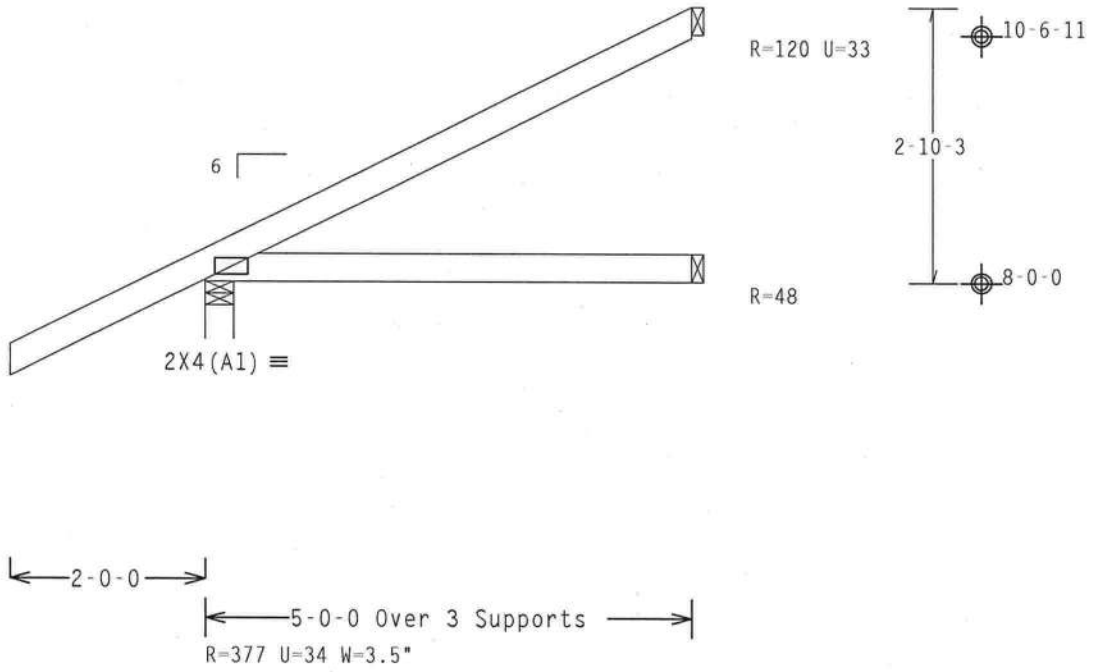
TC LL	20.0 PSF	REF R8228- 99615
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057044
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEQN- 18720
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TFC8228Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.04 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

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26 '08

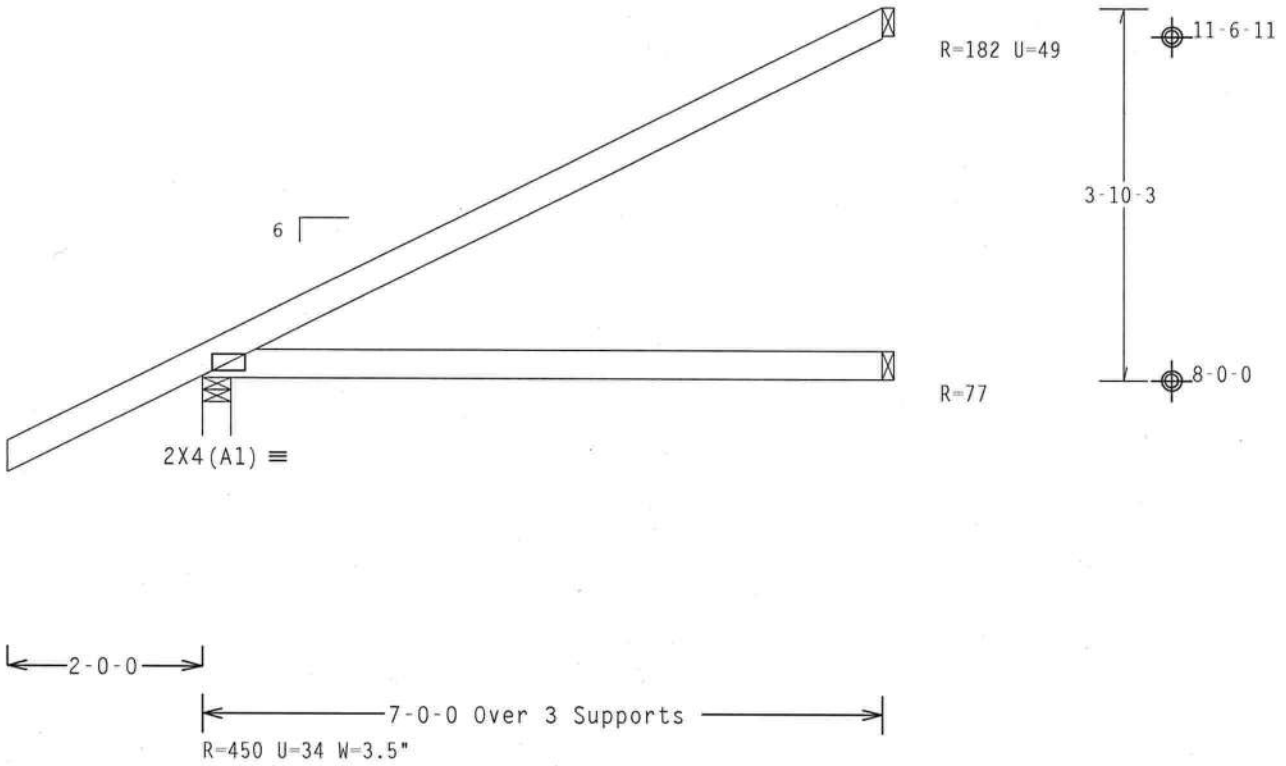
TC LL	20.0 PSF	REF R8228- 99616
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057043
BC LL	0.0 PSF	HC-ENG DAL/AP *
TOT.LD.	40.0 PSF	SEQN- 69390
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TFC8228Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
FEB 26 '08

TC LL	20.0 PSF	REF R8228- 99617
TC DL	10.0 PSF	DATE 02/26/08
BC DL	10.0 PSF	DRW HCUSR8228 08057046
BC LL	0.0 PSF	HC-ENG CC/AP *
TOT.LD.	40.0 PSF	SEQN- 22699
DUR.FAC.	1.25	
SPACING	24.0"	JRFF- 1TFC8228Z07

Load Short Form
Entire House
Touchstone Heating and Air, Inc.

Job: Weltzbarker Addition
Date: Feb 25, 2008
By: ell

P.O. Box 327, Lake Butler, Fl 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Stanley Crawford
853 SE Sisters Welcome Rd, Lake City, FL 32025
Phone: 386-752-5152 Fax: 386-755-2165

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	68	75
Design TD (°F)	35	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make Trane
Trade XB13 Weathertron
Model 2TWB3024A1

Efficiency	8 HSPF	
Heating input		
Heating output	20000	Btuh @ 47°F
Temperature rise	24	°F
Actual air flow	760	cfm
Air flow factor	0.057	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make Trane
Trade XB13 Weathertron
Cond 2TWB3024A1
Coil TXC031S3+*UY080R9V3

Efficiency	13.3 SEER	
Sensible cooling	15960	Btuh
Latent cooling	6840	Btuh
Total cooling	22800	Btuh
Actual air flow	760	cfm
Air flow factor	0.055	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.87	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BR 2	144	3100	2419	178	133
Utility	54	826	3042	47	167
BR 1	132	2704	1232	155	68
Kitchen	132	2591	5286	149	290
Great Room	186	3367	1642	193	90
Bath	48	649	228	37	13
Entire House	696	13238	13849	760	760
Other equip loads		395	192		
Equip. @ 0.97 RSM			13620		
Latent cooling			2188		
TOTALS	696	13633	15808	760	760

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Duct System Summary
Entire House
Touchstone Heating and Air, Inc.

Job: Weitzbarker Addition
Date: Feb 25, 2008
By: ell

P.O. Box 327, Lake Butler, Fl 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Stanley Crawford
853 SE Sisters Welcome Rd, Lake City, FL 32025
Phone: 386-752-5152 Fax: 386-755-2165

	Heating	Cooling
External static pressure	0.00 in H2O	0.00 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	-0.1 in H2O	-0.1 in H2O
Supply / return available pressure	-0.07 / -0.07 in H2O	-0.07 / -0.07 in H2O
Lowest friction rate	***0.880*** in/100ft	***0.880*** in/100ft
Actual air flow	760 cfm	760 cfm
Total effective length (TEL)	0 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BR 2	h	3100	178	133	0.880	8	0x0	VIFx	0.0	0.0	
Utility	c	3042	47	167	0.880	8	0x0	VIFx	0.0	0.0	
BR 1	h	2704	155	68	0.880	7	0x0	VIFx	0.0	0.0	
Kitchen-A	c	2643	74	145	0.880	7	0x0	VIFx	0.0	0.0	
Kitchen	c	2643	74	145	0.880	7	0x0	VIFx	0.0	0.0	
Great Room	h	3367	193	90	0.880	8	0x0	VIFx	0.0	0.0	
Bath	h	649	37	13	0.880	4	0x0	VIFx	0.0	0.0	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x0	760	760	0.0	0.880	544	16	0x 0		VIFx	

Bold/italic values have been manually overridden

NAMI NOTICE OF PRODUCT LINE CERTIFICATION

Certification No.: NI006110-Page 1
Date: 07/23/05
Revision Date:
Certification Program: Structural
Company: Masonite International
Code: M-703-1

The "Notice of Product Line Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The products and systems listed below are approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown requires corrections.

Company: **Masonite International Corporation**
1955 Powis Road
West Chicago, IL 60185

Product Line: **Masonite Wood-Edge Steel Side-Hinged Door Units**

Test Report: **NCTL-210-2929-1/210-2930-1/210-2930-7/210-2930-7/210-3121-1/ 210-3123-1/210-3125-1/CTLA-919W**

Section 1: General Description of the Products and Systems under this Certification

1.1 **Frame:** The frame jambs consist of finger jointed pine with all corners coped, butted, and sealed using three 2" long wire staples (.04375").

1.2 **Mullion Construction:** Where used, each mullion constructed of laminated lumber with a pine cap and attached to the header and threshold with three #10 x 3" Philips Flat Head Wood Screws.

1.3 **Glazing:** Where used, the overall insulated glass was glazed into a rigid plastic lip-lite frame. Consisted of symmetric monolithic insulated glass with 3mm (0.118) tempered glass.

1.4 **Door Leaf Construction:** Each door leaf was constructed from 0.017"(6'8" height) or 0.020"(8'0"height) thick galvanized steel facings.

Section 2: Registered Suppliers

2.1	Door Lites:	ODL, Specialty or Trinity
2.2	Astragal:	Endura Ultimate

Section 3: Additional Supportive Test or Acceptance Data Provided with Certification Documentation included:

3.1 Miami-Dade Building Code Compliance Notice of Acceptance for Lite Frame Material, NOA#02-0429.11; #02-1216.06 and #03-0303.07.

3.2 Surface Burning Characteristics for Foam Filled Door performed by Omega Point Laboratories to ASTM E84-98, "Standard Test Method for Surface Burning Characteristics of Building Materials-Report No. 15977-104313.

3.3 ASTM E1300 Glass Load Resistance Report provided by National Certified Testing Laboratories NCTL-110-9735-1.

3.4 Anchor Calculations for:
Anchor Performance Calculation Report-Performed by Harold E. Rupp, P.E. (Florida No. 15935.)

See additional Pages of Certification for Certified Product Line Matrix(s) and Installation Details. If you have any questions regarding this certification, please contact NAMI at (757)594-8658.

National Accreditation & Management Institute, Inc.
11870 Merchants Walk Suite 202-Newport News, VA 23606
TEL(757) 594.8658 FAX(757)594-8659

NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI006110-Page 3
Certification Date: 07/23/2005
Expiration Date: 12/31/2008

Product: Wood-Edge Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: PA 201-94/202-94/203-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Opaque	3'0" x 6'8"	+76/-76	Yes	NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
X Single	O/S	Opaque	3'0" x 6'8"	+76/-76	Yes	NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XX Double	I/S	Opaque	6'0" x 6'8"	+55/-55	Yes	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XX Double	O/S	Opaque	6'0" x 6'8"	+55/-55	Yes	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XO/OX Single w/Sidelite	I/S	Opaque Door Glazed Sidelite	6'0" x 6'8"	+55/-55	Door-Yes Sidelite-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
XO/OX Single w/Sidelites	O/S	Opaque Door Glazed Sidelite	6'0" x 6'8"	+55/-55	Door-Yes Sidelite-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXO Single w/Sidelites	I/S	Opaque Door Glazed Sidelites	9'0" x 6'8"	+55/-55	Door-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 30" x 6'8" Installation Drawings-MA-FL0128-05
OXO Single w/Sidelites	O/S	Opaque Door Glazed Sidelites	9'0" x 6'8"	+55/-55	Door-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXXO Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 6'8"	+55/-55	Doors-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05
OXXO Double w/Sidelites	O/S	Opaque Doors Glazed Sidelites	12'4" x 6'8"	+55/-55	Doors-Yes Sidelites-No	NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings-MA-FL0128-05

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606
Tel-757.594.8658/Fax-757.594.8659

NAMI AUTHORIZED SIGNATURE: _____

NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI006110-Page 4
Certification Date: 07/23/2005
Expiration Date: 12/31/2008

Product: Wood-Edge Steel Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: PA201-94/202-94/203-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Opaque	3'0" x 8'0"	+70/-70	Yes	NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
X Single	O/S	Opaque	3'0" x 8'0"	+70/-70	Yes	NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XX Double	I/S	Opaque	6'0" x 8'0"	+45/-50	Yes	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XX Double	O/S	Opaque	6'0" x 8'0"	+50/-45	Yes	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XO/OX Single w/Sidelite	I/S	Opaque Door Glazed Sidelite	6'0" x 8'0"	+45/-50	Door-Yes Sidelite-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
XO/OX Single w/Sidelites	O/S	Opaque Door Glazed Sidelite	6'0" x 8'0"	+50/-45	Door-Yes Sidelite-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXO Single w/Sidelites	I/S	Opaque Door Glazed Sidelites	9'0" x 8'0"	+45/-50	Door-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXO Single w/Sidelites	O/S	Opaque Door Glazed Sidelites	9'0" x 8'0"	+50/-45	Door-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXXO Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+45/-50	Doors-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05
OXXO Double w/Sidelites	O/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+50/-45	Doors-Yes Sidelites-No	NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings-MA-FL0129-05

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Tel-757.594.8658/Fax-757.594.8659

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NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI006110-Page 5
Certification Date: 07/23/2005
Expiration Date: 12/31/2008

Product: Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: PA 202-94

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Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Glazed	3'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
X Single	O/S	Glazed	3'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XX Double	I/S	Glazed	6'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XX Double	O/S	Glazed	6'0" x 6'8"	+50.5/-50.5	No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XO/OX Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	6'0" x 6'8"	+50.5/-50.5	Door-No Sidelite-No	NCTL-210-2930-7 MA-WL0115/16/17/18/19/20/21-02 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
XO/OX Single w/Sidelites	O/S	Glazed Door Glazed Sidelite	6'0" x 6'8"	+50.5/-50.5	Door-No Sidelite-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXO Single w/Sidelites	I/S	Glazed Door Glazed Sidelites	9'0" x 6'8"	+50.5/-50.5	Door-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXO Single w/Sidelites	O/S	Glazed Door Glazed Sidelites	9'0" x 6'8"	+50.5/-50.5	Door-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXXO Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 6'8"	+50.5/-50.5	Doors-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05
OXXO Double w/Sidelites	O/S	Glazed Doors Glazed Sidelites	12'6" x 6'8"	+50.5/-50.5	Doors-No Sidelites-No	NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8" Installation Drawings-MA-FL0130-05

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Tel-757.594.8658/Fax-757.594.8659

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NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

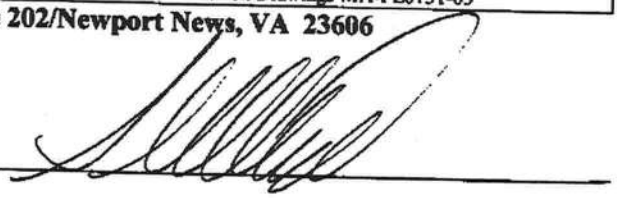
Certification No.: NI006110-Page 6
Certification Date: 07/23/2005
Expiration Date: 12/31/2008

Product: Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: PA 202-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Glazed	3'0" x 8'0"	+40/-45	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
X Single	O/S	Glazed	3'0" x 8'0"	+45/-40	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XX Double	I/S	Glazed	6'0" x 8'0"	+40/-45	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XX Double	O/S	Glazed	6'0" x 8'0"	+45/-40	No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XO/OX Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	6'0" x 8'0"	+40/-45	Door-No Sidelite-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
XO/OX Single w/Sidelites	O/S	Glazed Door Glazed Sidelite	6'0" x 8'0"	+45/-40	Door-No Sidelite-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXO Single w/Sidelites	I/S	Glazed Door Glazed Sidelites	9'0" x 8'0"	+40/-45	Door-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXO Single w/Sidelites	O/S	Glazed Door Glazed Sidelites	9'0" x 8'0"	+45/-40	Door-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXXO Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+40/-45	Doors-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05
OXXO Double w/Sidelites	O/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+45/-40	Doors-No Sidelites-No	NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606
Tel-757.594.8658/Fax-757.594.8659

NAMI AUTHORIZED SIGNATURE: 

Architectural Testing

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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 185SH/3185SH
Fin and Flange
PRODUCT TYPE: Aluminum Single Hung Windows

ATI Report Identification No.:	**01-50360.02**
Test Dates:	**03/26/04**
Through:	**05/14/04**
Report Date:	**06/14/04**
Expiration Date:	**05/14/08**

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 17030-0370

ATI Report Identification No.: 01-50360.02
Test Dates: 03/26/04
Through: 05/14/04
Report Date: 06/14/04
Expiration Date: 05/14/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on eleven Series/Model 185SH/3185SH Fin and Flange, aluminum single hung windows at MI Home Products, Inc.'s test facility in Elizabethville, Pennsylvania. 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 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: 185SH/3185SH Fin and Flange

Product Type: Aluminum Single Hung Windows

Test Specimen #1 (Oriel): H-R55 52 x 90

Overall Size: 4' 4-1/8" wide by 7' 5-5/8" high

Sash Size: 4' 2-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 4' 1-3/8" wide by 4' 2-1/2" high

Screen Size: 4' 2-3/4" wide by 2' 11-3/8" high

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Test Specimen Description: (Continued)

Glazing Type: A single sheet of 1/8" thick, clear tempered glass was utilized in the sash and fixed lite.

Installation: The window was installed into a Spruce-Pine-Fir wood test buck utilizing #10 by 1-1/2" long sheet metal screws 3" from the corners and midspan of the head, sill, and jambs. The exterior perimeter of the window and the screw heads at the sill were sealed with silicone.

Test Specimen #2 (Oriel): H-R55* 36 x 90

Overall Size: 3' 0" wide by 7' 5-5/8" high

Sash Size: 2' 10-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 2' 9-1/4" wide by 4' 2-1/2" high

Glazing Type: A single sheet of 1/8" thick, clear tempered glass was utilized in the sash and fixed lite.

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 located 3" from the corners and 9" on center.

Test Specimen #3 (Oriel): H-R35 52 x 90

Overall Size: 4' 4-1/8" wide by 7' 5-5/8" high

Sash Size: 4' 2-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 4' 1-3/8" wide by 4' 2-1/2" high

Screen Size: 4' 2-3/4" wide by 2' 11-3/8" high

Glazing Type: A single sheet of 3/16" thick, clear annealed glass was utilized in the sash and fixed lite.

Installation: The window was installed into a Spruce-Pine-Fir wood test buck utilizing #10 by 1-1/2" long sheet metal screw 3" from the corners and midspan of the head, sill, and jambs. The exterior perimeter of the window and the screw heads at the sill were sealed with silicone.

Test Specimen Description: (Continued)

Test Specimen #4 (Oriel): H-R35 52 x 90

Overall Size: 4' 4-1/8" wide by 7' 5-5/8" high

Sash Size: 4' 2-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 4' 1-3/8" wide by 4' 2-1/2" high

Screen Size: 4' 2-3/4" wide by 2' 11-3/8" high

Glazing Type: A single sheet of 3/16" thick, clear annealed glass was utilized in the sash and fixed lite.

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 located 2" from the corners and 11" on center.

Test Specimen #5 (Oriel): H-R55 52 x 90

Overall Size: 4' 4-1/8" wide by 7' 5-5/8" high

Sash Size: 4' 2-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 4' 1-3/8" wide by 4' 2-1/2" high

Screen Size: 4' 2-3/4" wide by 2' 11-3/8" high

Glazing Type: A 5/8" thick, sealed insulating glass unit, fabricated of two sheets of 1/8" thick, clear tempered glass was utilized for the fixed lite. A 5/8" thick, sealed insulating glass unit, fabricated of two sheets of 3/16" thick, clear annealed glass was utilized in the sash.

Installation: The window was installed into a Spruce-Pine-Fir wood test buck utilizing #10 by 1-1/2" long sheet metal screws 3" from the corners and midspan of the head, sill, and jambs. The exterior perimeter of the window and the screw heads at the sill were sealed with silicone.

Test Specimen Description: (Continued)

Test Specimen #6 (Oriel): H-R55 52 x 90

Overall Size: 4' 4-1/8" wide by 7' 5-5/8" high

Sash Size: 4' 2-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 4' 1-3/8" wide by 4' 2-1/2" high

Screen Size: 4' 2-3/4" wide by 2' 11-3/8" high

Glazing Type: A 5/8" thick, sealed insulating glass unit, fabricated of two sheets of 1/8" thick, clear tempered glass was utilized for the fixed lite. A 5/8" thick, sealed insulating glass unit, fabricated of two sheets of 3/16" thick, clear annealed glass was utilized in the sash.

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 located 2" from the corners and 11" on center.

Test Specimen #7: H-R55* 36 x 72

Overall Size: 3' 0" wide by 5' 11-5/8" high

Sash Size: 2' 10-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 2' 9-1/4" wide by 2' 8-5/8" high

Glazing Type: A 5/8" thick, sealed insulating glass unit, fabricated of two sheets of 1/8" thick, clear annealed glass was utilized in the sash and fixed lite.

Installation: The window was installed into a Spruce-Pine-Fir wood test buck utilizing #10 by 1-1/2" long sheet metal screws 3" from the corners and midspan of the head, sill, and jambs. The exterior perimeter of the window and the screw heads at the sill were sealed with silicone.

Test Specimen Description: (Continued)

Test Specimen #8: H-R55* 36 x 72

Overall Size: 3' 0" wide by 5' 11-5/8" high

Sash Size: 2' 10-1/4" wide by 2' 11-15/16" high

Daylight Opening Size: 2' 9-1/4" wide by 2' 8-5/8" high

Glazing Type: A 5/8" thick, sealed insulating glass unit, fabricated of two sheets of 1/8" thick, clear annealed glass was utilized in the sash and fixed lite.

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 located 3" from the corners and 16" on center.

Test Specimen #9: H-R55* 36 x 62

Overall Size: 3' 0" wide by 5' 2" high

Sash Size: 2' 10-1/4" wide by 2' 7-1/8" high

Daylight Opening Size: 2' 9-1/8" wide by 2' 3-3/4" high

Glazing Type: A single sheet of 3/16" thick, clear annealed glass was utilized in the sash and fixed lite.

Installation: The window was installed into a Spruce-Pine-Fir wood test buck utilizing #10 by 1-1/2" long sheet metal screws 3" from the corners and midspan of the head and jambs. The exterior perimeter of the window and the screw heads at the sill were sealed with silicone.

Test Specimen #10: H-R55* 36 x 62

Overall Size: 3' 0" wide by 5' 2" high

Sash Size: 2' 10-1/4" wide by 2' 7-1/8" high

Daylight Opening Size: 2' 9-1/8" wide by 2' 3-3/4" high

Glazing Type: A single sheet of 3/16" thick, clear annealed glass was utilized in the sash and fixed lite.

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 located 3" from the corners and 9" on center.

Test Specimen Description: (Continued)

Test Specimen #11: H-R55 52 x 78

Overall Size: 4' 4-1/8" wide by 6' 5-5/8" high

Sash Size: 4' 2-1/2" wide by 3' 0" high

Daylight Opening Size: 4' 1-3/8" wide by 2' 9-1/2" high

Glazing Type: A single sheet of 1/8" thick, clear tempered glass was utilized in the sash and fixed lite.

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 located 3" from the corners and 9" on center.

The following descriptions apply to all specimens.

Finish: All aluminum was anodized.

Glazing Details: All glass was exterior glazed against a bed of sealant and secured utilizing PVC snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.190" high polypile with center fin	1 Row	Sash stiles
0.187" backed by 0.250" high polypile with center fin	1 Row	Fixed meeting rail
1/4" diameter foam filled vinyl bulb seal with dual fins	1 Row	Bottom rail
0.187" backed by 0.230" high polypile pad	1 Pad	Active meeting rail corners

Frame Construction: The frame was constructed of extruded aluminum members. The head and sill were coped, butted, sealed, and secured to the jambs utilizing two #8 by 3/4" long pan head screws into the jamb screw boss. The fixed meeting rail was secured to the jambs utilizing two #8 by 1-1/4" long pan head screws into the fixed meeting rail screw boss. All screw heads were sealed with silicone.

Test Specimen Description: (Continued)

Sash Construction: The sash were constructed of extruded aluminum members. The stiles were coped, butted, and secured to the top and bottom rails utilizing two #6 by 3/4" long pan head screws into the top and bottom rails screw boss. A PVC cap was utilized at the end of the top rail.

Screen Construction: The screens were constructed of roll-formed aluminum members with plastic corner keys. The fiberglass mesh screening was secured with a flexible vinyl spline.

Hardware:

Description	Quantity	Location
Metal sweep lock	2	6" from the ends of the active meeting rail
Side load, block and tackle balance assembly	2	1 per jamb

Drainage: Sloped sill

Test Results: The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R55 52 x 90			
2.2.1.6.1	Operating Force	22 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.10 cfm/ft^2	0.30 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	See Note #2
2.1.4.1	Uniform Load Deflection per ASTM E 330	See Note #2
2.1.4.2	Uniform Load Structural per ASTM E 330	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".*

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R55 52 x 90 (Continued)			
2.2.1.6.2	Deglazing Test per ASTM E 987		
	In operating direction - 70 lbs		
	Top rail	0.08"/16%	0.50"/100%
	Bottom rail	0.07"/14%	0.50"/100%
	In remaining direction - 50 lbs		
	Left stile	0.04"/08%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 588		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A 7	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)		
	9.3 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	57.1 psf (positive)	0.77"	See Note #3
	55.0 psf (negative)	0.88"	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.*

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: H-R55 52 x 90 (Continued)			
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	85.7 psf (positive)	0.20"	0.20" max.
	82.5 psf (negative)	0.10"	0.20" max.
Test Specimen #2: H-R55* 36 x 90			
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the fixed meeting rail)		
	(Loads were held for 52 seconds)		
	57.1 psf (positive)	0.20"	See Note #3
	69.3 psf (negative)	0.22"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	85.7 psf (positive)	<0.01"	0.14" max.
	104.0 psf (negative)	<0.01"	0.14" max.
Test Specimen #3: H-R35 52 x 90			
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the fixed meeting rail)		
	(Loads were held for 52 seconds)		
	35.0 psf (positive)	0.50"	See Note #3
	35.0 psf (negative)	0.46"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	52.5 psf (positive)	0.02"	0.20" max.
	52.5 psf (negative)	0.02"	0.20" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #4: H-R35 52 x 90		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the fixed meeting rail)		
	(Loads were held for 52 seconds)		
	35.0 psf (positive)	0.52"	See Note #3
	35.0 psf (negative)	0.46"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	52.5 psf (positive)	<0.01"	0.20" max.
	52.5 psf (negative)	0.02"	0.20" max.
	Test Specimen #5: H-R55 52 x 90		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the fixed meeting rail)		
	(Loads were held for 52 seconds)		
	57.1 psf (positive)	0.72"	See Note #3
	69.3 psf (negative)	1.30"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	85.7 psf (positive)	0.04"	0.20" max.
	104.0 psf (negative)	0.18"	0.20" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #6: H-R55 52 x 90			
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the fixed meeting rail)		
	(Loads were held for 52 seconds)		
	57.1 psf (positive)	0.96"	See Note #3
	69.3 psf (negative)	1.03"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	85.7 psf (positive)	0.06"	0.20" max.
	104.0 psf (negative)	0.16"	0.20" max.
Test Specimen #7: H-R55* 36 x 72			
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the fixed meeting rail)		
	(Loads were held for 52 seconds)		
	57.1 psf (positive)	0.18"	See Note #3
	69.3 psf (negative)	0.22"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the fixed meeting rail)		
	(Loads were held for 10 seconds)		
	85.7 psf (positive)	0.01"	0.14" max.
	104.0 psf (negative)	<0.01"	0.14" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #8: H-R55* 36 x 72		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	57.1 psf (positive)	0.16"	See Note #3
	69.3 psf (negative)	0.18"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	85.7 psf (positive)	<0.01"	0.14" max.
	104.0 psf (negative)	<0.01"	0.14" max.
	Test Specimen #9: H-R55* 36 x 62		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	57.1 psf (positive)	0.14"	See Note #3
	69.3 psf (negative)	0.18"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	85.7 psf (positive)	<0.01"	0.14" max.
	104.0 psf (negative)	<0.01"	0.14" max.

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #10: H-R55* 36 x 62		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	57.1 psf (positive)	0.12"	See Note #3
	69.3 psf (negative)	0.08"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	85.7 psf (positive)	0.02"	0.14" max.
	104.0 psf (negative)	<0.01"	0.14" max.
	Test Specimen #11: H-R55 52 x 78		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the fixed meeting rail) (Loads were held for 52 seconds)		
	57.1 psf (positive)	0.60"	See Note #3
	55.0 psf (negative)	0.56"	See Note #3
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	85.7 psf (positive)	0.08"	0.20" max.
	82.5 psf (negative)	0.02"	0.20" 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.

For ARCHITECTURAL TESTING, INC:

Eric Westphal vlm

Digitally Signed for: Eric Westphal by Vicki L. McElwain

Eric Westphal
Technician

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer

EW:vlm
01-50360.02

FL #	Model, Number or Name	Description
5108.1	185/3185 Fin Frame Equal-Lite	36x72 Insulated 1/8" Annealed
Limits of Use (See Other) **Approved for use in HVHZ:** **Approved for use outside HVHZ:** **Impact Resistant:** **Design Pressure:** +/- **Other:** R-55 DP+57.1/-69.3 Per manufacturers installation instructions.		**Certification Agency Certificate** **Quality Assurance Contract Expiration Date** **Installation Instructions** PTID_5108_I_AAMA Cert Letter 185-3185 SH Fin Equal 36x62 50360.02.pdf PTID_5108_I_AAMA Cert Letter 185-3185 SH Fin Equal

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 -

MI 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.

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