DATE 10/21/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000027441

APPLICANT B. TRENT GIEBEIG PHONE 386.397.0545

ADDRESS 697 SE HOLLY TERRACE LAKE CITY FL 32025

OWNER ELAINE K. TOLAR PHONE 386.755.6488

ADDRESS 577 SW ZIERKE DRIVE LAKE CITY FL 32024

CONTRACTOR B. TRENT GIEBEIG PHONE 386.397.0545

LOCATION OF PROPERTY 90-W TO SR.247-S,TL TO ZIERKE DRIVE,TR 1/2 MILE ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 147600.00

HEATED FLOOR AREA 2142.00 TOTAL AREA 2952.00 HEIGHT 18.80 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 02-4S-16-02720-005 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 1.01

		RR282811523		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
EXISTING	08-0683	BLL	HD	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROAD.

Check # or Cash 4561

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 $ 740.00 CERTIFICATION FEE $ 14.76 SURCHARGE FEE $ 14.76

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** 844.52

INSPECTORS OFFICE CLERKS OFFICE GH

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.

Columbia County Building Permit Application

For Office Use Only Application # 0810-33 Date Received 10/17 By JW Permit # 27491
Zoning Official BLK Date 10.20.08 Flood Zone X Pd Survey Land Use Res. Dev. Zoning RSF-2
FEMA Map # N/A Elevation N/A MFE 4ft Rd River N/A Plans Examiner HO Date 10-20-08
Comments
☐ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
IMPACT FEES: EMS $29.88 Fire $78.63 Corr $409.16 Road/Code $1,046.00/210
School $1,500.00 = TOTAL $3,063.67

Septic Permit No. 08-0683 Fax 754-9601
Name Authorized Person Signing Permit Trent Giebeig Phone 397-0545
Address 697 SE Holly Terrace, LC FL 32025
Owners Name Elaine K. Tolar Phone 755-6488
911 Address 577 SW Zierke Drive LAKE City 32024
Contractors Name Trent Giebeig Construction Inc Phone 397-0545
Address 697 SE Holly Terrace Lake City FL 32025
Fee Simple Owner Name & Address ELAINE K TOLAR P.O. BOX 7246 LAKE City FL. 32055
Bonding Co. Name & Address NONE
Architect/Engineer Name & Address Freeman Design Group
Mortgage Lenders Name & Address NONE
Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progress Energy
Property ID Number 02-4S-16-02720-005 Estimated Cost of Construction 150,000.00
Subdivision Name — Lot — Block — Unit — Phase —
Driving Directions 247 South Right on SW Zierke Drive ½ mile on Right.
Number of Existing Dwellings on Property -0-
Construction of Frame SFD Total Acreage 1.01 Lot Size
Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 18'8 5/32
Actual Distance of Structure from Property Lines - Front 114 Side 26' Side 35' Rear 105.4
Number of Stories 1 Heated Floor Area 2142.6 Total Floor Area 2952.8 Roof Pitch 7/12

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.

Page 1 of 2 (Both Pages must be submitted together.) Revised 1-10-08

459 / 4560

JW Left Message. 10.21.08

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

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.

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.

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.

Elaine K. Tolar
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.

Contractor's Signature (Permitee)

Contractor's License Number #RR282811523
Columbia County
Competency Card Number 000141

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 15th **day of** October **20**08

Personally known X **or Produced Identification** _____

Patti Lynne Taylor
State of Florida Notary Signature (For the Contractor)

SEAL:

NOTARY PUBLIC STATE OF FLORIDA
PATTI LYNNE TAYLOR
MY COMMISSION # DD 691253
EXPIRES: July 2, 2011
Bonded Thru Budget Notary Services

Page 2 of 2 (Both Pages must be submitted together.)

Revised 1-10-08

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Sharon Feagle
Deputy Clerk
Date 10-06-2008

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

This Instrument Prepared By:
Michael H. Harrell
Abstract & Title Services, Inc.
P.O. Box 7175
Lake City, FL 32055
File Number

Inst:200812018358 Date:10/6/2008 Time:3:13 PM
Doc Stamp-Deed:35.00
DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1159 P:2284

WARRANTY DEED

Individual to Individual

THIS WARRANTY DEED made this 3rd **day of October, 2008, Peter W. Giebeig, a single person**, hereinafter called the grantor, to **Elaine K. Tolar** whose post office address is: **P.O. Box 7246, Lake City, FL 32055** hereinafter called the grantee:

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation)

WITNESSETH that the Grantor, for and in consideration of the sum of $10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys, and confirms unto the Grantee, all that certain land situate in **Columbia** County, **FLORIDA**, viz: Parcel ID#

See Exhibit 'A' attached hereto and by this reference made a part thereof.

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

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

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2007.

IN WITNESS WHEREOF, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Peter W. Giebeig

WITNESS Michael Harrell
PRINTED NAME

Teresa Baker
WITNESS Teresa Baker
PRINTED NAME

Peter W. Giebeig

STATE OF **FLORIDA**
COUNTY OF **Columbia**

The foregoing instrument was acknowledged before me this 3rd **day of October, 2008** by **Peter W. Giebeig** personally known to me or, if not personally known to me, who produced _____ for identification and who did not take an oath.

(SEAL)

NOTARY PUBLIC

My Commission Expires:

MICHAEL H. HARRELL
MY COMMISSION # DD 406480
EXPIRES: April 8, 2009
Bonded Thru Notary Public Underwriters

docmerge

Exhibit "A"

A part of the SW ¼ of Section 2, Township 4 South, Range 16 East, Columbia County, Florida, Also a part of Lot 1 Navoo Acres as per plat thereof recorded in Plat Book 4, Page 45, of the public records of Columbia County, Florida, being described as follows:

Commence at the NW corner of the SE ¼ of the SW ¼ of Section 2, Township 4 South, Range 16 East, Columbia County, Florida and run thence S 02 deg 09'33" E, along said West line of said SE ¼ of the SW ¼, a distance of 119.91 feet to the point of beginning; thence N 88 deg 58'50" E., a distance of 30.00 feet; thence S 02 deg 09'34" E., a distance of 280.32 feet to the North right of way of SW Zierke Drive; thence N 75 deg 38'24" W., along said North right of way, a distance of 23.45 feet; thence S 88 deg 34'59" W., still along said right of way a distance of 7.51 feet to the point of curve of a curve to the left having a radius of 105.00 feet an included angle of 67 deg 22'22" and a chord bearing and distance of S 54 deg 17'43" W., 116.48 feet; thence Southwesterly along the arc of said curve for an arc distance of 123.47 feet to the point of reverse curve having a radius of 70.00 feet an included angle of 32 deg 40'51" and a chord bearing and distance of S 35 deg 12'28" W., 39.39 feet; thence Southwesterly along the arc of said curve for an arc distance of 39.39 feet; thence N 01 deg 01'10" W., a distance of 372.16 feet; thence N 88 deg 58'50" E, a distance of 113.60 feet to the point of beginning.

Together with an easement for ingress and egress and utility purposes over and across the following described parcel:
Commence at the NW corner of the SE ¼ of the SW ¼ of Section 2, Township 4 South, Range 16 East, Columbia County, Florida and run thence S 02 deg 09'33" E., along said West line of said SE ¼ of the SW ¼, a distance 119.91 feet; thence S 88 deg 58'50" W., a distance of 113.60 feet to the point of beginning; thence continue S 88 deg 58'50" W., a distance of 60.00 feet; thence S 01 deg 01'10" E., a distance of 386.76 feet to the North right of way said point being on a curve of a curve to the left having a radius of 170.00 feet an included angle of 06 deg 34'37" and a chord bearing and distance of N 88 deg 20'15" E, 19.50 feet; thence Northeasterly along the arc of said curve for an arc distance of 19.51 feet to the point of reverse curve having a radius of 70.00 feet an included angle of 35 deg 45'14" and a chord bearing and distance of N 69 deg 25'31" E., 42.98 feet; thence Northeasterly along the arc of said curve for an arc distance of 43.68 feet; thence N 01 deg 01'10" W., a distance of 372.16 feet to the point of beginning.

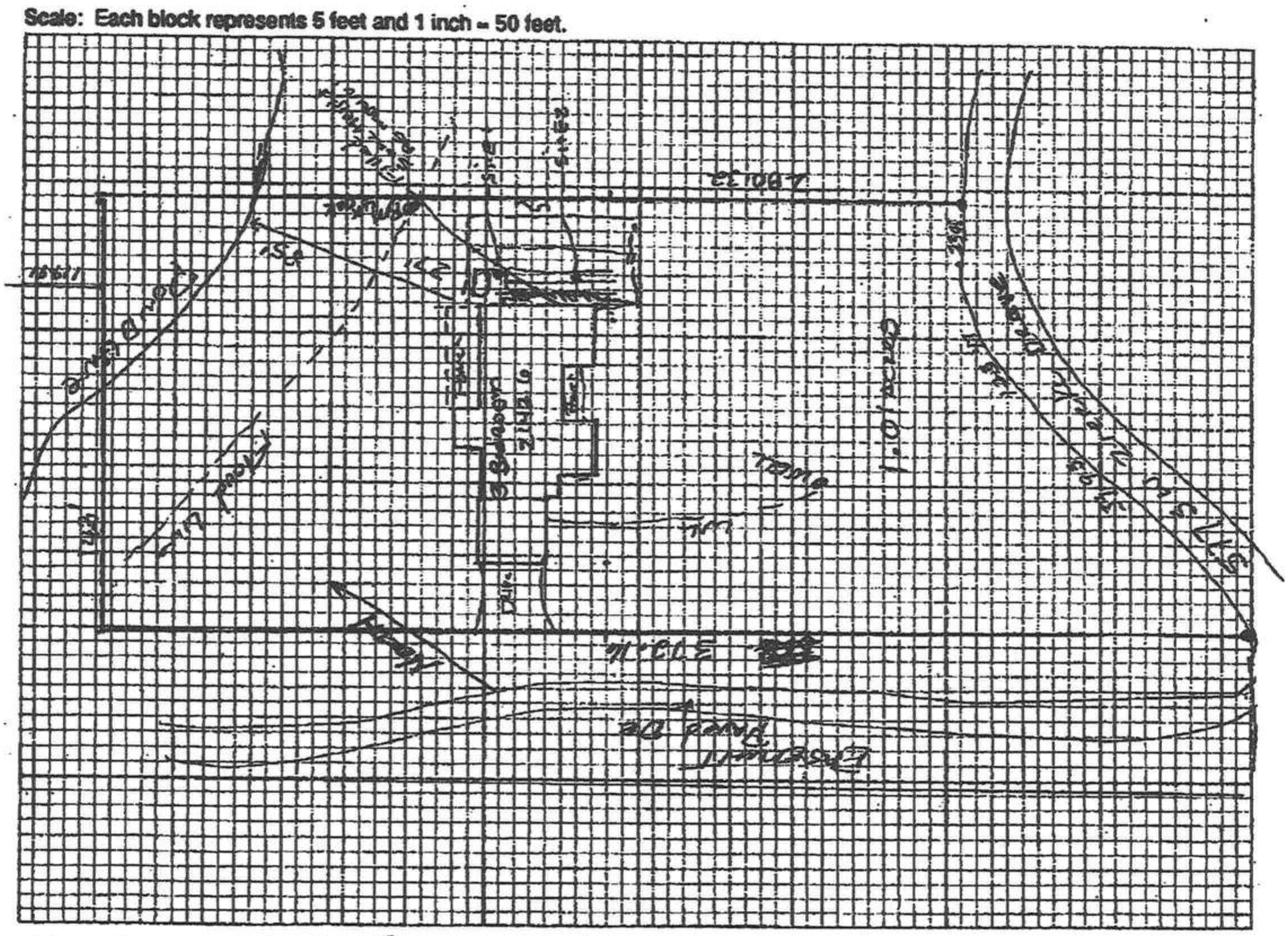
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0683

PART II - SITE PLAN

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



Notes: Perce W Giebeig (Elayne Tolar)
02-45-16-02723-001 (1.01 Acres)

Site Plan submitted by: Robert Ford NFST inc — Signature; Agent — Title

APPROVED

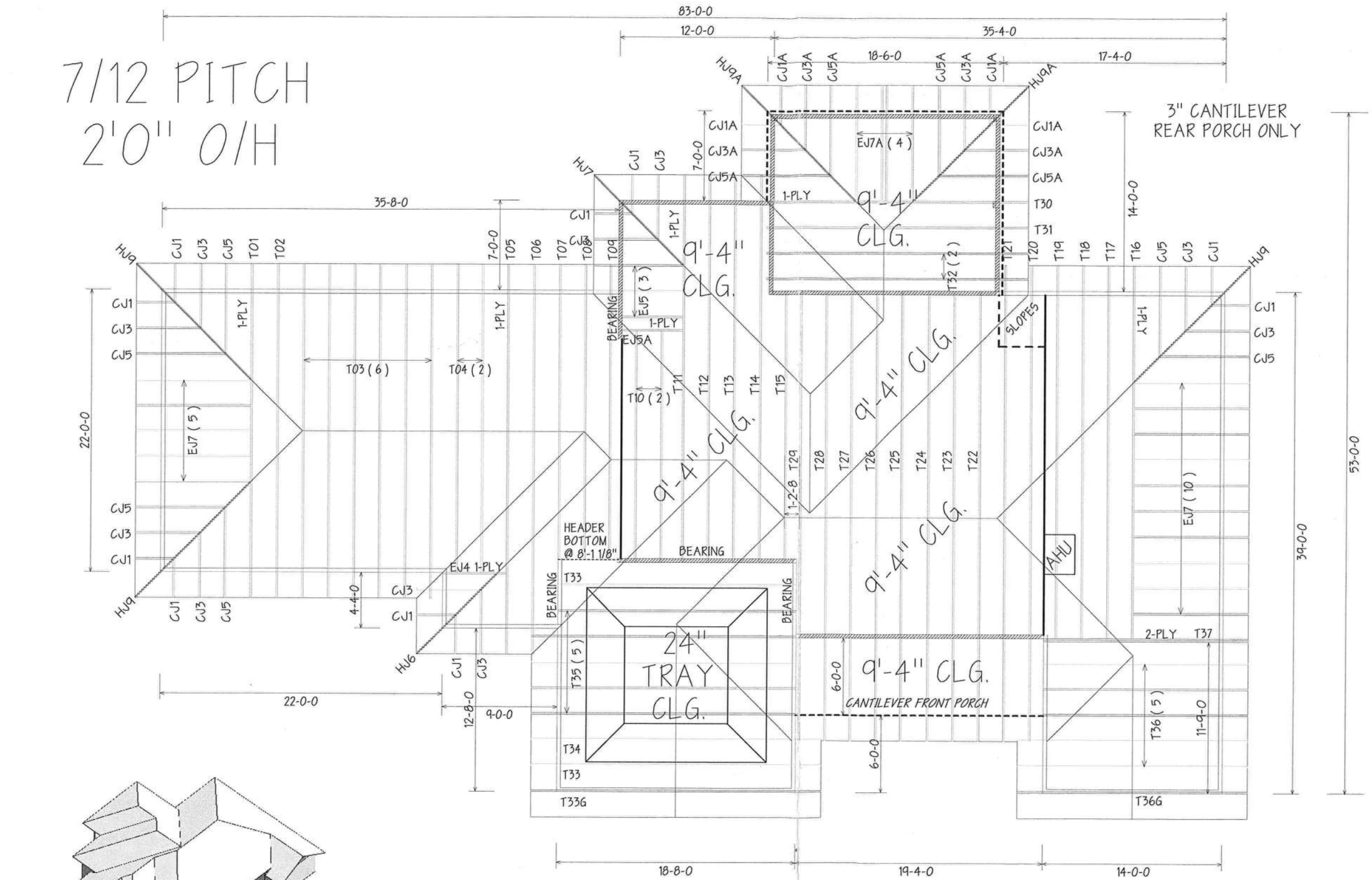
Plan Approved X Not Approved ____ Date 10/16/8

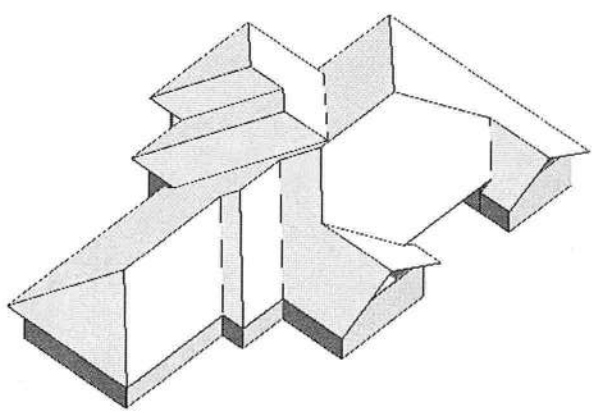
By [signature] Columbia CHD County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/00 (Replaces HRS-H Form 4015 which may be used)
(Stock Number: 5744-002-4015-6)

7/12 PITCH
2'0" O/H





NOTE BEARING ADDED

BEARING HEIGHT SCHEDULE

8'-1 1/8"

9'-5 1/8"

HANGER SCHEDULE
13 - HTU26

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date: _____

Approved by: _____ Date: _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER: GIEBEIG HOMES		
LEGAL ADDRESS: TOLAR RES.		
MODEL: CUSTOM		REVISION: SCALE: NTS
DATE: 9-15-08	DRAWN BY: K.L.H.	JOB #: L288863

NOTICE OF COMMENCEMENT

Inst:200812019002 Date:10/16/2008 Time:12:58 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1160 P:1482

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 02-4s-16-02720-005

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT**.

1. Description of property *(legal description)*: Legal Attached
   a) Street *(job)* Address: 577 SW Zierke Drive Lake City, Fl. 32024
2. General description of improvements: Construction of Single Family Residence
3. Owner Information
   a) Name and address: Elaine K. Tolar P.O. Box 7246 Lake City, Fl. 32055
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Fee Simple
4. Contractor Information
   a) Name and address: Trent Giebeig Construction, Inc. 697 SE Holly Terrace
   b) Telephone No.: 386-752-0791 Fax No. (Opt.) Lake City, FL. 32025
5. Surety Information
   a) Name and address: N/A
   b) Amount of Bond: _____
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: N/A
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: N/A
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address: N/A
   b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Elaine K. Tolar
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Elaine K. Tolar
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 10th day of October, 2008, by: Elaine K. Tolar as _____ **(type of authority, e.g. officer, trustee, attorney fact) for** Elaine K. Tolar **(name of party on behalf of whom instrument was executed).**

Personally Known ✓ OR Produced Identification ____ Type _____

Notary Signature Donna Cox Notary Stamp or Seal

DONNA COX
Notary Public, State of Florida
My Comm. Expires Jan. 16, 2010
Comm. No. DD 507061
Bonded Thru Notary Public Underwriters

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Elaine K. Tolar
Signature of Natural Person Signing (in line #10 above.)

Exhibit "A"

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STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By _____ Deputy Clerk
Date 10-16-08

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

Water Wells
Pumps & Service

Phone: (386) 752-6677
Fax: (386) 752-1477

Lynch Well Drilling, Inc.
173 SW Young Place
Lake City, FL 32025
www.lynchwelldrilling.com

November 6, 2007

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:	1 Horse Power
Size of Pressure Tank:	81-Gallon Bladder Tank
Cycle Stop Valve Used:	No

Should you require any additional information, please contact us.

Sincerely,

Linda Newcomb

Linda Newcomb
Lynch Well Drilling, Inc.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Tolar Residence**	Builder:	
Address:		Permitting Office:	**Lake City**
City, State:	**Lake City, FL**	Permit Number:	27441
Owner:	**Elaine Tolar**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2143 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 234.0 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 234.0 ft²	
8.	Floor types		
	a. Slab-On-Grade Edge Insulation	R=0.0, 270.0(p) ft	
	b. N/A		
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=13.0, 1827.4 ft²	
	b. N/A		
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 2143.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts		
	a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 83.0 ft	
	b. N/A		

12.	Cooling systems		
	a. Central Unit	Cap: 48.0 kBtu/hr SEER: 13.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump/Split	Cap: 48.0 kBtu/hr HSPF: 8.50	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 40.0 gallons EF: 0.94	
	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)	PT, CF,	

Glass/Floor Area: 0.11

Total as-built points: 22359
Total base points: 28153

PASS

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

PREPARED BY: Debbie A Motes

DATE: 10-9-08

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.

Location:_____ **Project Name:**_____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			FL 4242-R1
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS		Jordan Vinyl	FL 1378
1. Single hung			FL 5108
2. Horizontal Slider			FL 5451
3. Casement			
4. Double Hung			
5. Fixed			FL 5418
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			FL 889-R2
2. Soffits			FL 4899
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			FL 586-R2
2. Underlayments			FL 1814-R1
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature

Trent Giebeig — Print Name

10-14-08 — Date

Location

Permit # **(FOR STAFF USE ONLY)**

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

MI Home Products, Inc.
650 West Market Street
Gratz, PA 17030

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "BetterBilt D185SH/D3185SH" Aluminum Single Hung Window

APPROVAL DOCUMENT: Drawing No. **S-2422,** titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

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

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

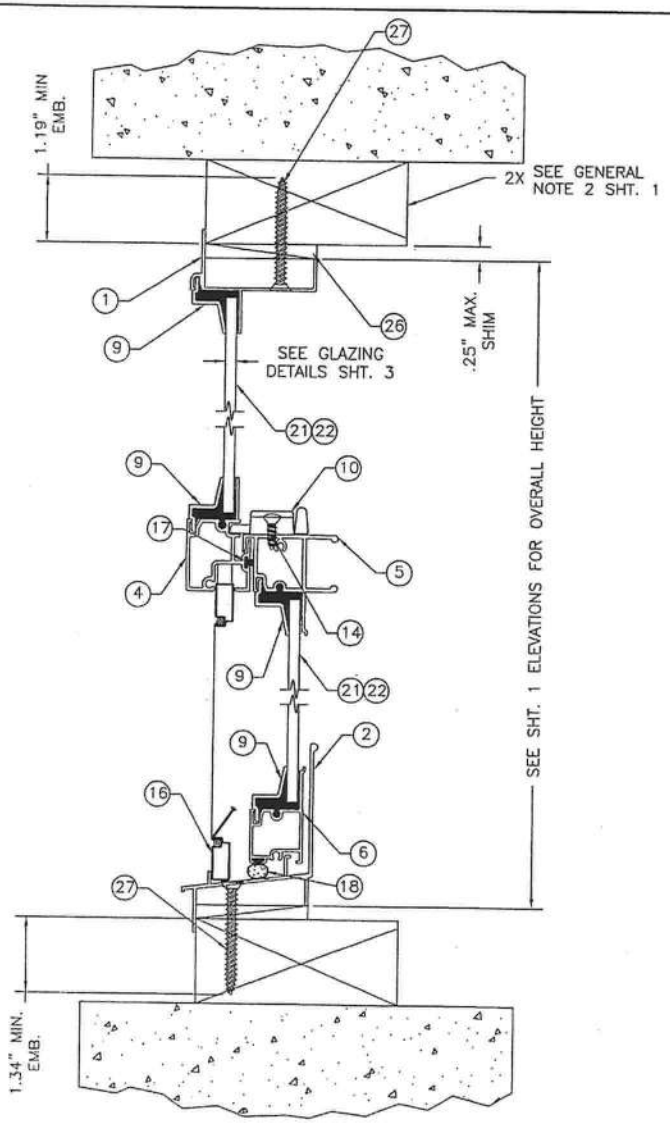
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

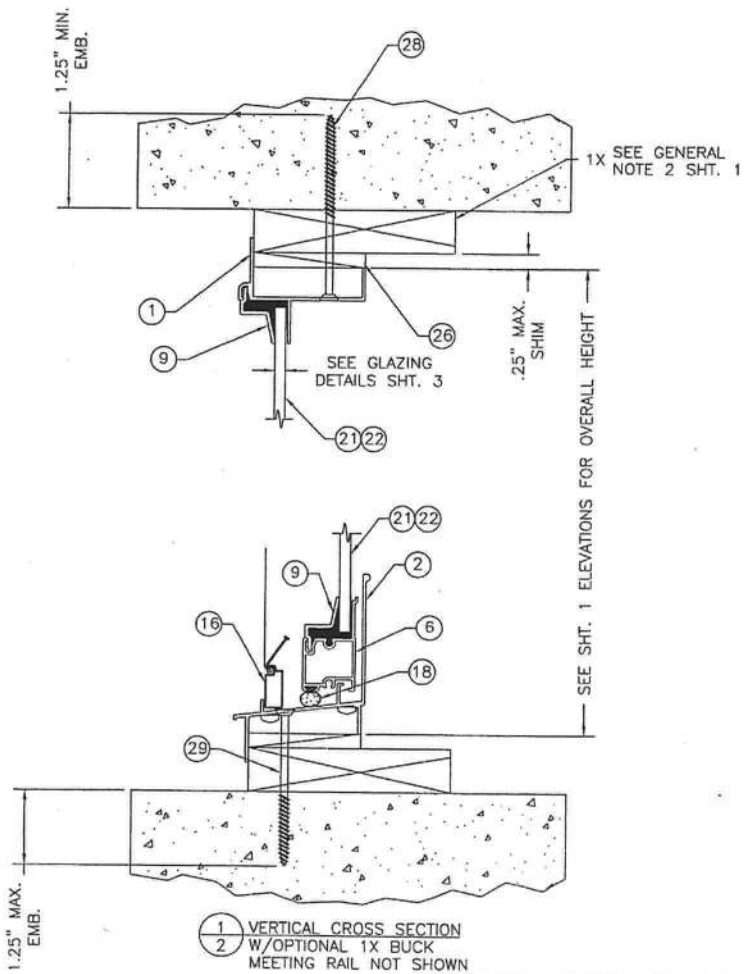
INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Theodore Berman, P.E.**

2/13/2003

PRODUCT CONTROL ACCEPTED



1/2 VERTICAL CROSS SECTION W/2X BUCK



1/2 VERTICAL CROSS SECTION W/OPTIONAL 1X BUCK MEETING RAIL NOT SHOWN

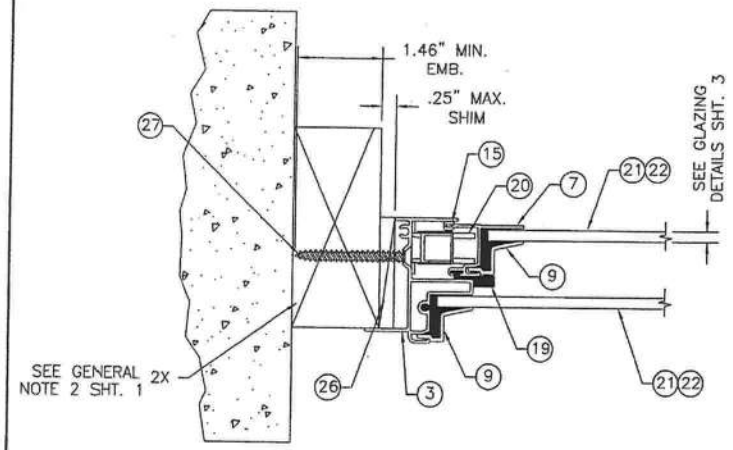
Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1215.02
Miami-Dade Product Control Division
By

Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valdosta, FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
2/10/04
Wendell Hall, P.E. No. 54158

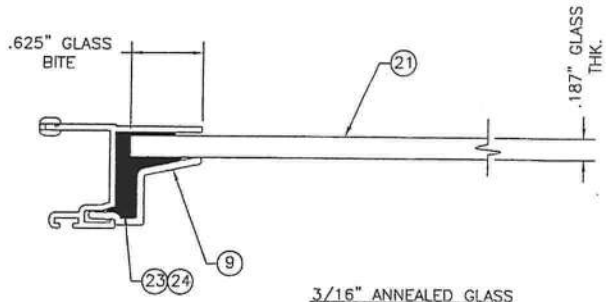
PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREIAL
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

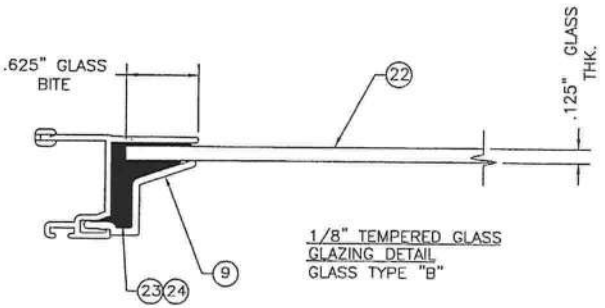
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 2 OF 5



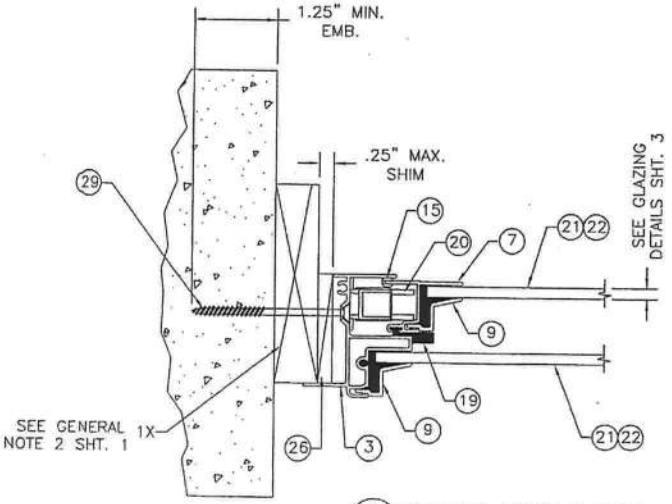
1/3 HORIZONTAL CROSS SECTION
W/2X BUCK



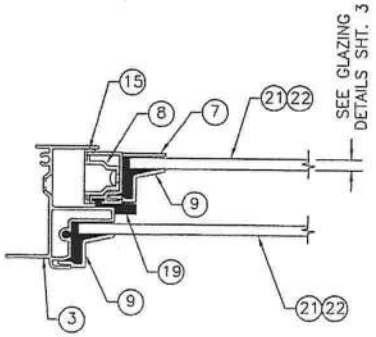
3/16" ANNEALED GLASS
GLAZING DETAIL
GLASS TYPE "A"



1/8" TEMPERED GLASS
GLAZING DETAIL
GLASS TYPE "B"



1/3 HORIZONTAL CROSS SECTION
W/1X BUCK



1/3 HORIZONTAL CROSS SECTION
SHOWING SASH CAM
MASONRY & BUCK NOT SHOWN

NOTES:
1. THE MAIN FRAME HEAD, SIDES AND SILL ARE CONNECTED TOGETHER AT EACH CORNER WITH (2) ITEM #11, A #8 x 3/4" PHILLIPS PAN HEAD SCREW. THE SCREWS RUN FROM THE HEAD DOWN INTO THE SIDES AND FROM THE SILL UP INTO THE SIDES.
2. THE FIXED MEETING RAIL IS SECURED TO THE SIDES WITH (2) EACH SIDE ITEM #12, A #8 x 1 1/4" PHILLIPS PAN HEAD SCREW.
3. THE SASH CORNERS ARE CONNECTED TOGETHER WITH (2) EACH CORNER ITEM #13, A #6 x 3/4" PHILLIPS PAN HEAD SCREW.

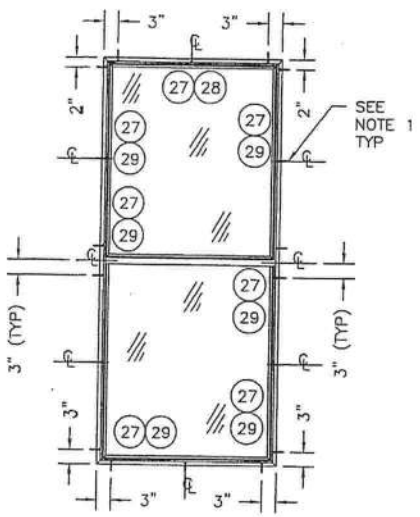
Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1215.02
Miami-Dade Product Control Division
By

Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.689.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wendell Hasse, P.E. No. 54158
2/10/04

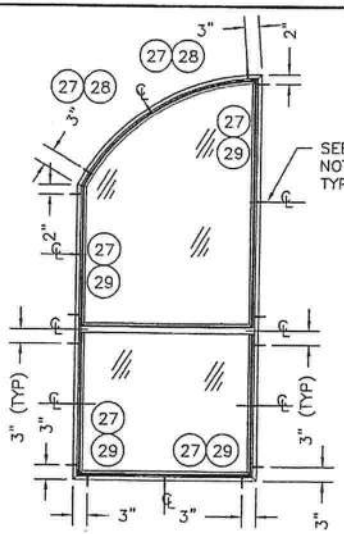
PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREAL
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & GLAZING DETAILS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

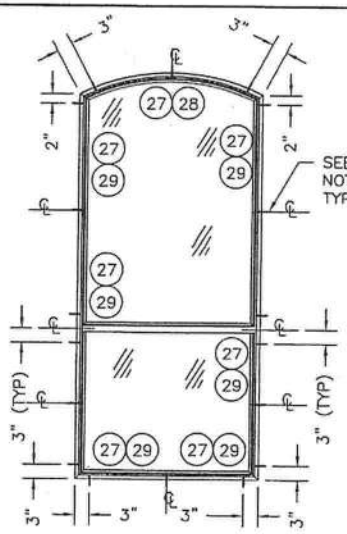
DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 3 OF 5



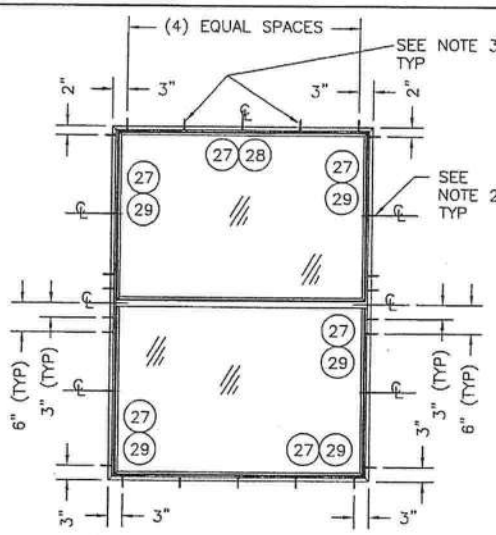
37" x 84" SINGLE HUNG WINDOW



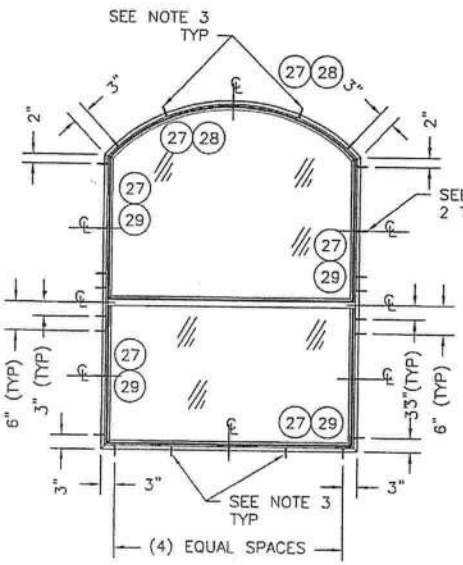
37" x 84" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL



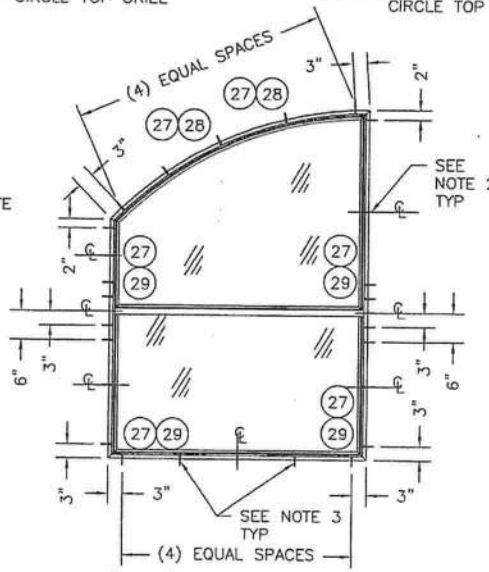
37" x 84" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW



53" x 73" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL

NOTES:
1. FOR UNITS SMALLER THAN 30"x60" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
2. FOR UNITS SMALLER THAN 53"x60" OR SMALLER THAN 30"x66" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
3. FOR UNITS SMALLER THAN 36"x66" DO NOT INSTALL ANCHORS AT EITHER SIDE OF CENTER ANCHOR AT HEAD AND SILL JAMBS.

Approved as complying with the Florida Building Code
Date 02/04/04
NOA# 03-1215.02
Miami-Dade Product Control Division
By

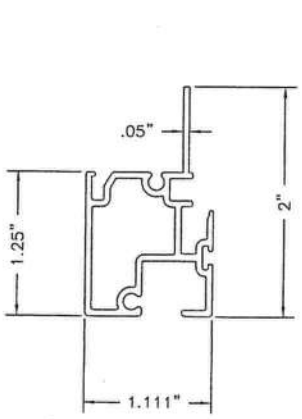
Product Approval Documents Prepared By:
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL. 33595
Phone No.: 813.653.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
2/10/04
Wendell Hopper, P.E. No. 54158

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL
PART OR ASSEMBLY: ANCHORING LOCATIONS

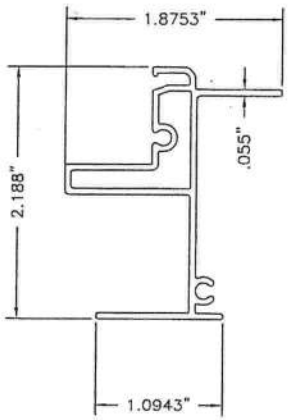
NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 4 OF 5

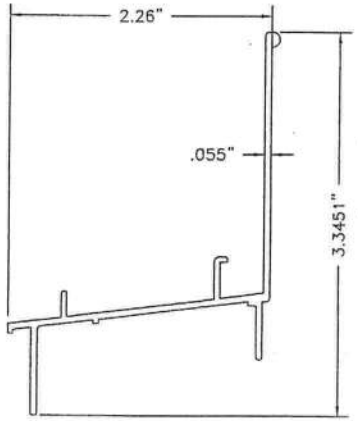
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	EXTRUDED ALUMINUM SINGLE HUNG 1/2" HEAD #CM-18501 BY MI METALS	ALUM.
2	EXTRUDED ALUMINUM SINGLE HUNG 1/2" SILL #CM-18502 BY MI METALS	ALUM.
3	EXTRUDED ALUMINUM SINGLE HUNG 1/2" JAMB #CM-18503 BY MI METALS	ALUM.
4	EXTRUDED ALUMINUM SINGLE HUNG FIXED MEETING RAIL #CM-18504 BY MI METALS	ALUM.
5	EXTRUDED ALUMINUM SINGLE HUNG SASH LOCK RAIL #CM-18505 BY MI METALS	ALUM.
6	EXTRUDED ALUMINUM SINGLE HUNG SASH BOTTOM RAIL #CM-18506 BY MI METALS	ALUM.
7	EXTRUDED ALUMINUM SINGLE HUNG SASH STILE #CM-18507 BY MI METALS	ALUM.
8	SASH CAM #I-185 BY BSI	–
9	GLAZING BEAD #V-185 BY MI PLASTICS	–
10	LOCK #30240-402 BY REFLECTOLITE	–
11	MAIN FRAME SCREW #8 x 3/4" PHHILLIPS PAN HEAD	STEEL
12	MEETING RAIL SCREW #8 x 1 1/4" PHILLIPS PAN HEAD	STEEL
13	SASH SCREW #6 x 3/4" PHILLIPS PAN HEAD	STEEL
14	LOCK SCREW #8 x 5/8" PHILLIPS FLAT HEAD -PTD	STEEL
15	SASH GUIDE #80-02-8207 BY PLASTICS, AZ	–
16	WINDOW SCREEN	–
17	FIN WEATHERSTRIPPING .187" x .250" BY AMESBURY	–
18	BULB SEAL #32002 BY AMESBURY	–
19	DUST PLUG 5/8" x 7/8" x .25" BY AMESBURY	–
20	5/8" BLOCK & TACKLE 150 SERIES BY BSI	–
21	GLASS "A" SGL GLAZED 3/16" ANN. BY GUARDIAN	–
22	GLASS "B" SGL GLAZED 1/8" TEMP. BY GUARDIAN	–
23	BACKBEDDING #SM-2100 BY SCHNEE MOREHEAD	SILICONE
24	BACKBEDDING PURFECTGLAZE-H (HOTMELT)	–
25	GLASS SHIM 1/8" x 1/4" x 1" BY SECON	–
26	1/4" MAX SHIM	–
27	#12 X 2" PHILLIPS FLAT HEAD SHEET METAL SCREW	STEEL
28	3/16" x 3 1/4" ELCO TAPCON ANCHOR	STEEL
29	3/16 x 2 3/4" ELCO TAPCON ANCHOR	STEEL



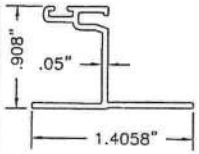
④ FIXED MEETING RAIL



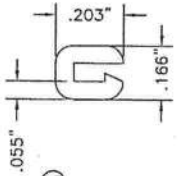
③ JAMB-FLANGE



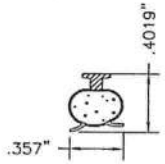
② SILL FIN



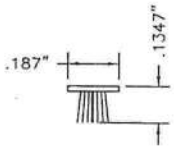
⑦ SASH STILE



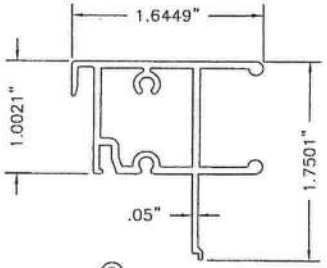
⑮ SASH GUIDE



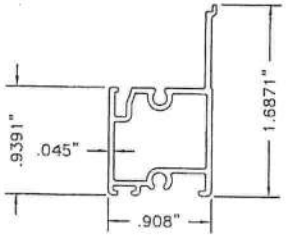
⑱ BULB SEAL



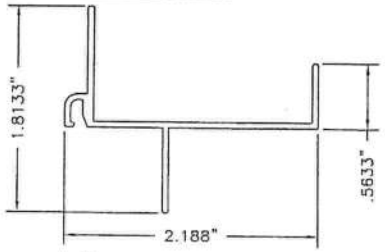
⑰ FIN WEATHERSTRIPPING



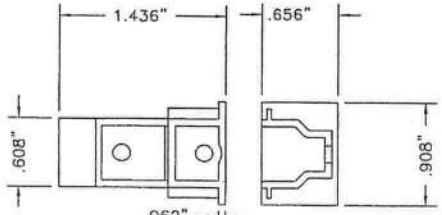
⑤ LOCK RAIL



⑥ SASH BOTTOM RAIL



① HEAD FLANGE



⑧ SASH CAM

Approved as complying with the Florida Building Code
Date: 03/04/04
NOA# 03-1215.02
Miami-Dade Product Control
Division
By

Product Approval Documents Prepared By:
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico, FL. 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
2/10/04
Wendell Haney, P.E. No. 57198

PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREIAL

PART OR ASSEMBLY: BILL OF MATERIALS & UNIT COMPONENTS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 5 OF 5

MI Home Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **S-2422,** titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94

   along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI 03056**, dated 11/11/03, signed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/11/03, signed and sealed by Lyndon F. Schmidt, P.E.
2. Revised Anchor Calculations, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/04, signed and sealed by Lyndon F. Schmidt, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated December 09, 2003, signed and sealed by Lyndon F. Schmidt, P.E.
2. Statement letter of no financial interest with the laboratory that performed the Test Report No. **ATI 03056**, dated November 08, 2003, signed by Stu White, Design Engineering Manager.

G. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-1215.02
Expiration Date: March 04, 2009
Approval Date: March 04, 2004

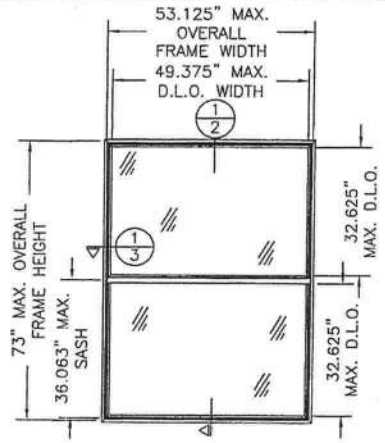
MI HOME PRODUCTS

650 WEST MARKET STREET • GRATZ, PA • 17030-0370

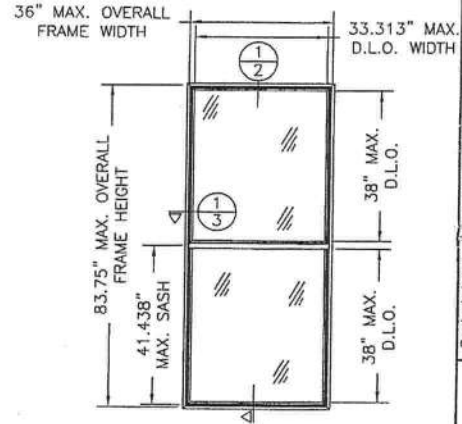
SERIES BETTERBILT D185SH/D3185SH
ALUMINUM SINGLE HUNG WINDOW

GENERAL NOTES:

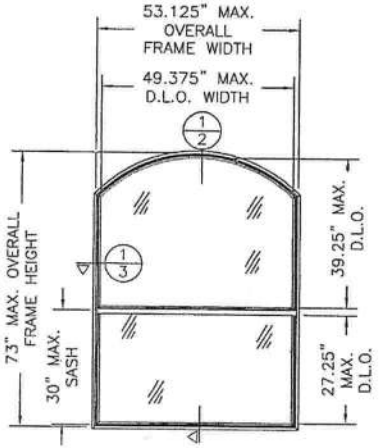
1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE "HVHZ" OF THE FLORIDA BUILDING CODE.
2. WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.
5. INSTALLATION OF THIS SYSTEM IN HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS; INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.
6. THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.



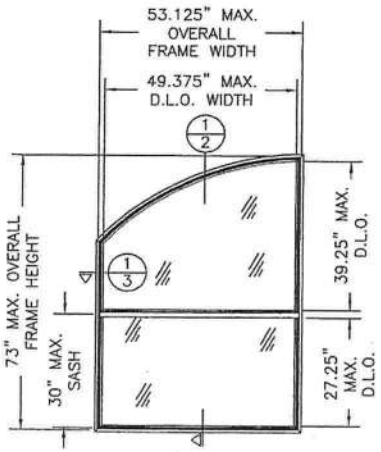
53" x 73" SINGLE HUNG WINDOW



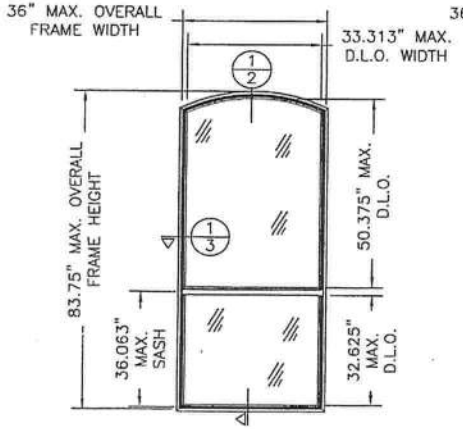
37" x 84" SINGLE HUNG WINDOW



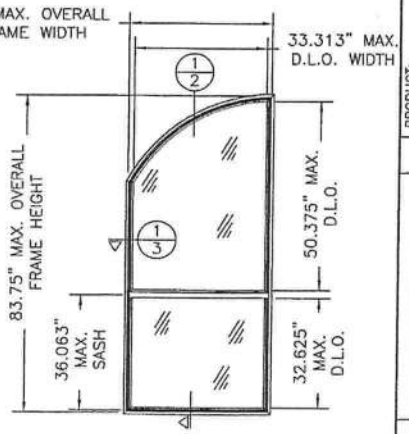
53" x 73" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW
CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW
HALF CIRCLE TOP ORIEL

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS & GLAZING DETAIL
4	ANCHORING LOCATIONS
5	COMPONENTS, BILL OF MATERIALS

DESIGN PRESSURE RATINGS (PSF)			
GLASS	MAX. SIZE	DP POS.	DP NEG.
1/8" Temp.	OA 53" x 73"	+56.7	-69.3
1/8" Temp.	OA 37" x 84"	+56.7	-69.3
3/16" Ann.	OA 53" x 73"	+42.0	-42.0
3/16" Ann.	OA 37" x 84"	+56.7	-58.0

ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

Approved as complying with the Florida Building Code
Date 03/04/04
NOA# 03-1215.02
Miami Dade Product Control
Division
By

Product Approval Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.689.8197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
Wendell Hall, P.E. No. 34158
2/10/04

PRODUCT: NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL

PART OR ASSEMBLY: GENERAL NOTES & TYPICAL ELEVATIONS

NO	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

DATE: 10/27/03
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2422
SHEET 1 OF 5

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS; Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation

d) Location, size and height above roof of chimneys.
e) Location and size of skylights
f) Building height
e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned.
b) Shear walls identified.
c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
d) Show safety glazing of glass, where required by code.
e) Identify egress windows in bedrooms, and size.
f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.
b) All posts and/or column footing including size and reinforcing
c) Any special support required by soil analysis such as piling
d) Location of any vertical steel.

Roof System:

a) Truss package including:
   1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
   2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:
   1. Rafter size, species and spacing
   2. Attachment to wall and uplift
   3. Ridge beam sized and valley framing and support details
   4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall
   1. All materials making up wall
   2. Block size and mortar type with size and spacing of reinforcement
   3. Lintel, tie-beam sizes and reinforcement
   4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
   5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
   6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
   7. Fire resistant construction (if required)
   8. Fireproofing requirements
   9. Shoe type of termite treatment (termiticide or alternative method)
   10. Slab on grade
      a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
      b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
   11. Indicate where pressure treated wood will be placed
   12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
b) Floor joist size and spacing
c) Girder size and spacing
d) Attachment of joist to girder
e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
b) Ceiling fans
c) Smoke detectors
d) Service panel and sub-panel size and location(s)
e) Meter location with type of service entrance (overhead or underground)
f) Appliances and HVAC equipment
g) Arc Fault Circuits (AFCI) in bedrooms
h) Exhaust fans in bathroom

HVAC information

a) Energy Calculations (dimensions shall match plans)
b) Manual J sizing equipment or equivalent computation
c)Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

***Notice Of Commencement Required Before Any Inspections Will Be Done**

Private Potable Water

Summary Energy Code Results

Residential Whole Building Performance Method A

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

10/9/2008

Building Loads			
Base		As-Built	
Summer:	**26373 points**	Summer:	**25427 points**
Winter:	**21077 points**	Winter:	**20260 points**
Hot Water:	**7273 points**	Hot Water:	**7273 points**
Total:	**54722 points**	Total:	**52960 points**

Energy Use			
Base		As-Built	
Cooling:	**8571 points**	Cooling:	**6228 points**
Heating:	**11677 points**	Heating:	**8395 points**
Hot Water:	**7905 points**	Hot Water:	**7737 points**
Total:	**28153 points**	Total:	**22359 points**

PASS
e-Ratio: 0.79

EnergyGauge®(Version: FLRCPB v4.5)

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

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

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2143.0	18.59	7171.0	1.Double, Clear	S	1.0	6.0	6.0	35.87	0.94	203.0	
				2.Double, Clear	E	1.0	6.0	6.0	42.06	0.97	244.0	
				3.Double, Clear	E	1.0	6.0	16.0	42.06	0.97	652.0	
				4.Double, Clear	E	1.0	6.0	12.0	42.06	0.97	489.0	
				5.Double, Clear	E	14.0	9.3	36.0	42.06	0.43	655.0	
				6.Double, Clear	E	1.0	6.0	30.0	42.06	0.97	1223.0	
				7.Double, Clear	W	1.0	6.0	20.0	38.52	0.97	747.0	
				8.Double, Clear	W	1.0	6.0	36.0	38.52	0.97	1345.0	
				9.Double, Clear	W	6.0	9.3	36.0	38.52	0.65	901.0	
				10.Double, Clear	W	1.0	6.0	36.0	38.52	0.97	1345.0	
				As-Built Total:				**234.0**			**7804.0**	

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	1827.4	1.50	2741.1
Exterior	1827.4	1.70	3106.6					
Base Total:	**1827.4**		**3106.6**	**As-Built Total:**		**1827.4**		**2741.1**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated	39.6	4.10	162.4
Exterior	81.6	6.10	497.8	2.Exterior Wood	42.0	6.10	256.2
Base Total:	**81.6**		**497.8**	**As-Built Total:**	**81.6**		**418.6**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2143.0	1.73	3707.4	1. Under Attic	30.0	2143.0	1.73 X 1.00	3707.4
Base Total:	**2143.0**		**3707.4**	**As-Built Total:**		**2143.0**		**3707.4**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	270.0(p)	-37.0	-9990.0	1. Slab-On-Grade Edge Insulation	0.0	270.0(p	-41.20	-11124.0
Raised	0.0	0.00	0.0					
Base Total:			**-9990.0**	**As-Built Total:**		**270.0**		**-11124.0**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	2143.0	10.21	21880.0	2143.0	10.21	21880.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

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

BASE			AS-BUILT					
Summer Base Points: 26372.8			**Summer As-Built Points:**					**25427.1**
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 48000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)					
26372.8	**0.3250**	**8571.1**	25427 **25427.1**	1.00 **1.00**	(1.00 x 1.147 x 0.91) **1.044**	0.260 **0.260**	0.902 **0.902**	6227.6 **6227.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

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

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2143.0	20.17	7780.0	1.Double, Clear	S	1.0	6.0	6.0	13.30	1.02	81.0	
				2.Double, Clear	E	1.0	6.0	6.0	18.79	1.02	114.0	
				3.Double, Clear	E	1.0	6.0	16.0	18.79	1.02	305.0	
				4.Double, Clear	E	1.0	6.0	12.0	18.79	1.02	229.0	
				5.Double, Clear	E	14.0	9.3	36.0	18.79	1.39	940.0	
				6.Double, Clear	E	1.0	6.0	30.0	18.79	1.02	572.0	
				7.Double, Clear	W	1.0	6.0	20.0	20.73	1.01	417.0	
				8.Double, Clear	W	1.0	6.0	36.0	20.73	1.01	752.0	
				9.Double, Clear	W	6.0	9.3	36.0	20.73	1.11	831.0	
				10.Double, Clear	W	1.0	6.0	36.0	20.73	1.01	752.0	
				As-Built Total:				**234.0**			**4993.0**	
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	1827.4	3.40		6213.2	
Exterior	1827.4	3.70	6761.4									
Base Total:	**1827.4**		**6761.4**	**As-Built Total:**				**1827.4**			**6213.2**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				39.6	8.40		332.6	
Exterior	81.6	12.30	1003.7	2.Exterior Wood				42.0	12.30		516.6	
Base Total:	**81.6**		**1003.7**	**As-Built Total:**				**81.6**			**849.2**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2143.0	2.05	4393.1	1. Under Attic			30.0	2143.0	2.05 X	1.00	4393.1	
Base Total:	**2143.0**		**4393.1**	**As-Built Total:**				**2143.0**			**4393.1**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	270.0(p)	8.9	2403.0	1. Slab-On-Grade Edge Insulation			0.0	270.0(p	18.80		5076.0	
Raised	0.0	0.00	0.0									
Base Total:			**2403.0**	**As-Built Total:**				**270.0**			**5076.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	2143.0	-0.59	-1264.4					2143.0	-0.59		-1264.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

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

BASE			AS-BUILT					
Winter Base Points:		**21076.8**	**Winter As-Built Points:**					**20260.2**
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 48000 btuh ,EFF(8.5) Ducts:Con(S),Con(R),Int(AH),R6.0					
21076.8	0.5540	11676.6	20260.2	1.00	1.087	0.401	0.950	8394.6

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

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

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2635.00	7905.0	40.0	0.94	3		1.00	2578.94	1.00	7736.8
				As-Built Total:							**7736.8**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
8571	**11677**	**7905**	**28153**	**6228**	**8395**	**7737**	**22359**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

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

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked 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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 88.2

The higher the score, the more efficient the home.

Elaine Tolar, , Lake City, FL,

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family			a. Central Unit	Cap: 48.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 13.00
4.	Number of Bedrooms	3			b. N/A	
5.	Is this a worst case?	No				
6.	Conditioned floor area (ft²)	2143 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) 234.0 ft²			a. Electric Heat Pump/Split	Cap: 48.0 kBtu/hr
	b. SHGC:					HSPF: 8.50
	(or Clear or Tint DEFAULT)	7b. (Clear) 234.0 ft²			b. N/A	
8.	Floor types					
	a. Slab-On-Grade Edge Insulation	R=0.0, 270.0(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, 1827.4 ft²				EF: 0.94
	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, 2143.0 ft²		15.	HVAC credits	PT, CF,
	b. N/A				(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
	a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 83.0 ft			MZ-C-Multizone cooling,	
	b. N/A				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

BUILDING INPUT SUMMARY REPORT

PROJECT

Title:	Tolar Residence	**Family Type:**	Single	**Address Type:**	Street Address
Owner:	Elaine Tolar	**New/Existing:**	New	**Lot #:**	N/A
# of Units:	1	**Bedrooms:**	3	**Subdivision:**	N/A
Builder Name:	(blank)	**Conditioned Area:**	2143	**Platbook:**	N/A
Climate:	North	**Total Stories:**	1	**Street:**	(blank)
Permit Office:	Lake City	**Worst Case:**	No	**County:**	Columbia
Jurisdiction #:	(blank)	**Rotate Angle:**	(blank)	**City, St, Zip:**	Lake City, FL,

FLOORS

#	Floor Type	R-Val	Area/Perimeter	Units
1	Slab-On-Grade Edge Insulation	0.0	270.0(p) ft	1

DOORS

#	Door Type	Orientation	Area	Units
1	Insulated	Exterior	39.6 ft²	1
2	Wood	Exterior	42.0 ft²	1

CEILINGS

#	Ceiling Type	R-Val	Area	Base Area	Units
1	Under Attic	30.0	2143.0 ft²	2143.0 ft²	1

Credit Multipliers: None

COOLING

#	System Type	Efficiency	Capacity
1	Central Unit	SEER: 13.00	48.0 kBtu/hr

Credit Multipliers: Ceil Fn, PT

WALLS

#	Wall Type	Location	R-Val	Area	Units
1	Frame - Wood	Exterior	13.0	1827.4 ft²	1

HEATING

#	System Type	Efficiency	Capacity
1	Electric Heat Pump/Split	HSPF: 8.50	48.0 kBtu/hr

Credit Multipliers: PT

WINDOWS

#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
1	Double	Clear	S	6.0 ft²	1.0 ft	6.0 ft	1
2	Double	Clear	E	6.0 ft²	1.0 ft	6.0 ft	1
3	Double	Clear	E	8.0 ft²	1.0 ft	6.0 ft	2
4	Double	Clear	E	12.0 ft²	1.0 ft	6.0 ft	1
5	Double	Clear	E	18.0 ft²	14.0 ft	9.3 ft	2
6	Double	Clear	E	30.0 ft²	1.0 ft	6.0 ft	1
7	Double	Clear	W	20.0 ft²	1.0 ft	6.0 ft	1
8	Double	Clear	W	36.0 ft²	1.0 ft	6.0 ft	1
9	Double	Clear	W	18.0 ft²	6.0 ft	9.3 ft	2
10	Double	Clear	W	36.0 ft²	1.0 ft	6.0 ft	1

DUCTS

#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length
1	Cond.	Cond.	Interior	6.0	83.0 ft

Credit Multipliers: None

WATER

#	System Type	EF	Cap.	Conservation Type	Con. EF
1	Electric Resistance	0.94	40.0	None	0.00

REFR.

#	Use Default?	Annual Operating Cost	Electric Rate
1	Yes	N/A	N/A

MISC

Rater Name:	CodeOnlyPro	**Class #:**	3	**Pool Size:**	0
Rater Certification #:	CodeOnlyPro	**Duct Leakage Type:**	N/A	**Pump Size:**	0.00 hp
Area Under Fluorescent:	0.0	**Visible Duct Disconnects:**	N/A	**Dryer Type:**	Electric
Area Under Incandescent:	2143.0	**Leak Free Duct System Proposed:**	No	**Stove Type:**	Electric
NOTE: Not all Rating info shown		**HRV/ERV System Present?:**	No	**Avg Ceil Hgt:**	

Residential System Sizing Calculation

Summary

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

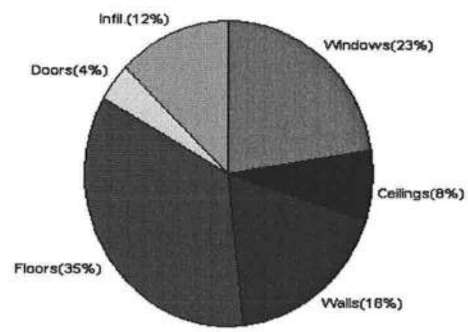
10/9/2008

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**33366**	**Btuh**	**Total cooling load calculation**	**25180**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	143.9	48000	Sensible (SHR = 0.75)	157.2	36000
Heat Pump + Auxiliary(0.0kW)	143.9	48000	Latent	526.4	12000
			Total (Electric Heat Pump)	190.6	48000

WINTER CALCULATIONS

Winter Heating Load (for 2143 sqft)

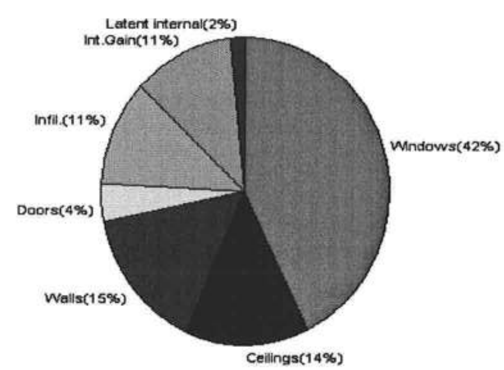
Load component			Load	
Window total	234	sqft	7532	Btuh
Wall total	1827	sqft	6001	Btuh
Door total	82	sqft	1352	Btuh
Ceiling total	2143	sqft	2525	Btuh
Floor total	270	sqft	11788	Btuh
Infiltration	103	cfm	4167	Btuh
Duct loss			0	Btuh
Subtotal			**33366**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**33366**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2143 sqft)

Load component			Load	
Window total	234	sqft	10699	Btuh
Wall total	1827	sqft	3812	Btuh
Door total	82	sqft	1023	Btuh
Ceiling total	2143	sqft	3549	Btuh
Floor total			0	Btuh
Infiltration	51	cfm	957	Btuh
Internal gain			2860	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**22900**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			1880	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			400	Btuh
Total latent gain			**2280**	**Btuh**
TOTAL HEAT GAIN			**25180**	**Btuh**



Version 8
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EnergyGauge® System Sizing
PREPARED BY: [signature]
DATE: 10-9-08

EnergyGauge® FLRCPB v4.5

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/9/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
2	2, Clear, Metal, 0.87	E	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	E	16.0	32.2	515 Btuh
4	2, Clear, Metal, 0.87	E	12.0	32.2	386 Btuh
5	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
6	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
9	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
10	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
	Window Total		234(sqft)		7532 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1827	3.3	6001 Btuh
	Wall Total		1827		6001 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		42	20.0	839 Btuh
2	Insulated - Exterior		40	12.9	513 Btuh
	Door Total		82		1352Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2143	1.2	2525 Btuh
	Ceiling Total		2143		2525Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	270.0 ft(p)	43.7	11788 Btuh
	Floor Total		270		11788 Btuh
				Envelope Subtotal:	29199 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.32	19287	1827 102.9	4167 Btuh
Ductload				(DLM of 0.000)	0 Btuh
All Zones			**Sensible Subtotal All Zones**		**33366 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

10/9/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	33366 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33366 Btuh

EQUIPMENT

1. Electric Heat Pump/Split	#(Outside) #(Inside)	48000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/9/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
2	2, Clear, Metal, 0.87	E	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	E	16.0	32.2	515 Btuh
4	2, Clear, Metal, 0.87	E	12.0	32.2	386 Btuh
5	2, Clear, Metal, 0.87	E	36.0	32.2	1159 Btuh
6	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
9	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
10	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
	Window Total		234(sqft)		7532 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1827	3.3	6001 Btuh
	Wall Total		1827		6001 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		42	20.0	839 Btuh
2	Insulated - Exterior		40	12.9	513 Btuh
	Door Total		82		1352Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2143	1.2	2525 Btuh
	Ceiling Total		2143		2525Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	270.0 ft(p)	43.7	11788 Btuh
	Floor Total		270		11788 Btuh
			Zone Envelope Subtotal:		29199 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.32	19287	1827	102.9	4167 Btuh
Ductload	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)(DLM of 0.000)					0 Btuh
Zone #1	**Sensible Zone Subtotal**					**33366 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

10/9/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	33366 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33366 Btuh

EQUIPMENT

1. Electric Heat Pump/Split	#(Outside) #(Inside)	48000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 10/9/2008

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	6.0	6.0	0.0	19	23	112 Btuh
2	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	6.0	0.0	6.0	19	55	333 Btuh
3	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	16.0	0.0	16.0	19	55	887 Btuh
4	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	12.0	0.0	12.0	19	55	665 Btuh
5	2, Clear, 0.87, B-D, N,F	E	14ft.	9.33	36.0	36.0	0.0	19	55	673 Btuh
6	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	30.0	0.0	30.0	19	55	1663 Btuh
7	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	20.0	0.0	20.0	19	55	1109 Btuh
8	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	36.0	5.0	31.0	19	55	1813 Btuh
9	2, Clear, 0.87, B-D, N,F	W	6ft.	9.33	36.0	9.9	26.1	19	55	1633 Btuh
10	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	36.0	5.0	31.0	19	55	1813 Btuh
	Window Total				234 (sqft)					10699 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1827.4	2.1	3812 Btuh
	Wall Total		1827 (sqft)		3812 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Wood - Exterior	42.0	15.1	635 Btuh
2	Insulated - Exterior	39.6	9.8	388 Btuh
	Door Total	82 (sqft)		1023 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2143.0	1.7	3549 Btuh
	Ceiling Total		2143 (sqft)		3549 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	270 (ft(p))	0.0	0 Btuh
	Floor Total		270.0 (sqft)		0 Btuh

			Envelope Subtotal:		19083 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.16	19287	1827	102.9	957 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	2	X 230	+	2400	2860 Btuh

	Sensible Envelope Load:	22900 Btuh
Duct load	(DGM of 0.000)	0 Btuh
	Sensible Load All Zones	**22900 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

10/9/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**22900 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**22900 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**22900 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	1880 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2280 Btuh**
	TOTAL GAIN	**25180 Btuh**

EQUIPMENT

1. Central Unit	#	48000 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 10/9/2008

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	6.0	6.0	0.0	19	23	112 Btuh
2	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	6.0	0.0	6.0	19	55	333 Btuh
3	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	16.0	0.0	16.0	19	55	887 Btuh
4	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	12.0	0.0	12.0	19	55	665 Btuh
5	2, Clear, 0.87, B-D, N,F	E	14ft.	9.33	36.0	36.0	0.0	19	55	673 Btuh
6	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	30.0	0.0	30.0	19	55	1663 Btuh
7	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	20.0	0.0	20.0	19	55	1109 Btuh
8	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	36.0	5.0	31.0	19	55	1813 Btuh
9	2, Clear, 0.87, B-D, N,F	W	6ft.	9.33	36.0	9.9	26.1	19	55	1633 Btuh
10	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	36.0	5.0	31.0	19	55	1813 Btuh
	Window Total				234 (sqft)					10699 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1827.4	2.1	3812 Btuh
	Wall Total		1827 (sqft)		3812 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Wood - Exterior		42.0	15.1	635 Btuh
2	Insulated - Exterior		39.6	9.8	388 Btuh
	Door Total		82 (sqft)		1023 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2143.0	1.7	3549 Btuh
	Ceiling Total		2143 (sqft)		3549 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	270 (ft(p))	0.0	0 Btuh
	Floor Total		270.0 (sqft)		0 Btuh
				Zone Envelope Subtotal:	19083 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)		CFM=	Load
	SensibleNatural	0.16	19287	1827		51.4	957 Btuh
Internal gain		Occupants	Btuh/occupant			Appliance	Load
		2	X 230	+		2400	2860 Btuh
					Sensible Envelope Load:		22900 Btuh
Duct load	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)				(DGM of 0.000)		0 Btuh
					Sensible Zone Load		**22900 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

Code Only
Professional Version
Climate: North

10/9/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**22900 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**22900 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**22900 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	1880 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2280 Btuh**
	TOTAL GAIN	**25180 Btuh**

EQUIPMENT

1. Central Unit	#	48000 Btuh

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Elaine Tolar

Lake City, FL

Project Title:
Tolar Residence

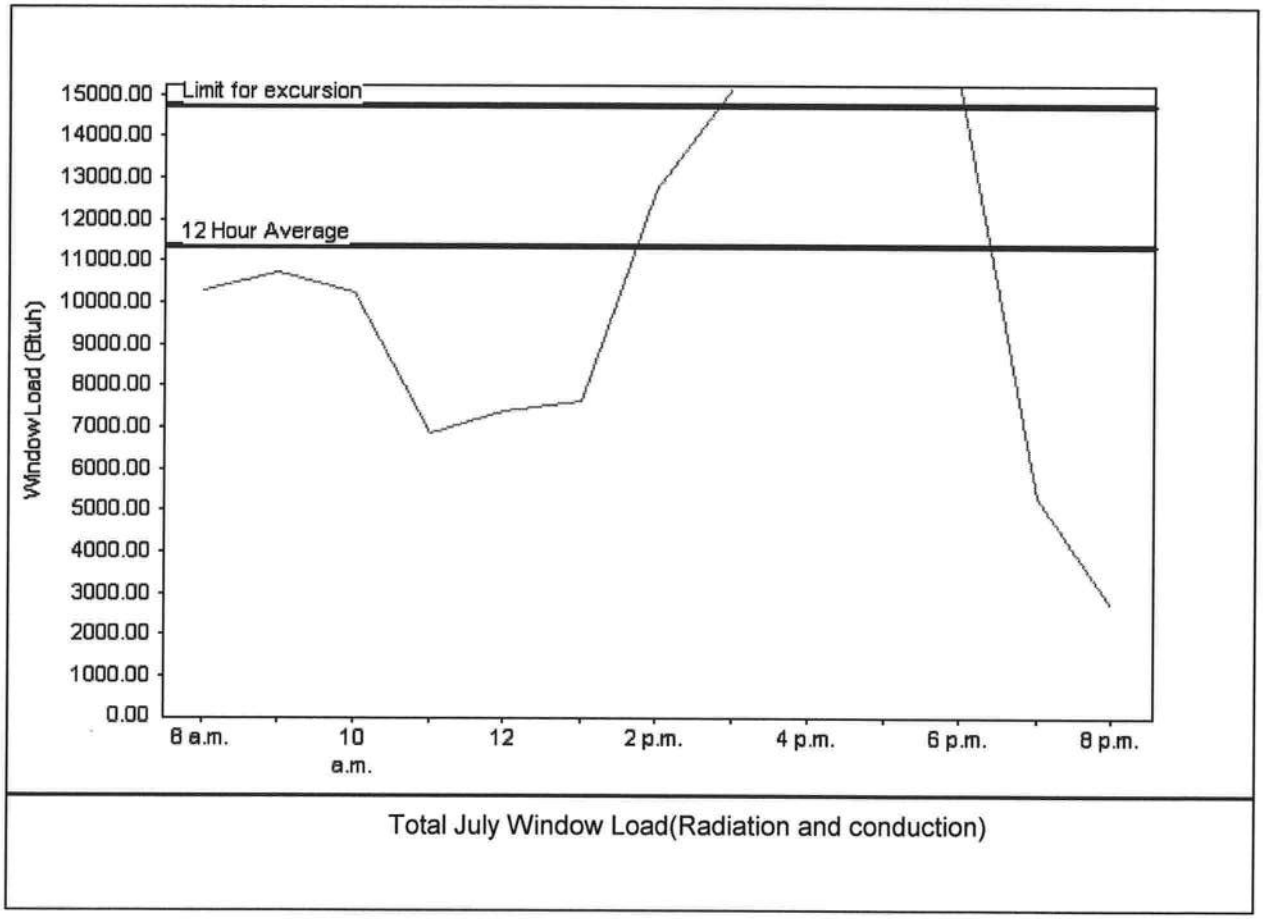
Code Only
Professional Version
Climate: North

10/9/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	11353 Btu
Summer setpoint	75 F	Peak window load for July	18511 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	14759 Btu
Latitude	29 North	Window excursion (July)	3752 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: Debbie A Mathis
DATE: 10-9-08

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Tamko Roofing Products, Inc.
P.O. Box 1404
Joplin, MO 64802

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: TAMKO Heritage Declaration & Heritage XL Roof Shingles

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

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This consists of pages 1 through 4.
The submitted documentation was reviewed by Frank Zuloaga, RRC

PRODUCT CONTROL ACCEPTED

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	07310 Composition Shingles
Materials	Dimensional
Deck Type:	Wood

1. SCOPE:

This approves **Tamko Heritage Declaration and Heritage XL** Asphalt Shingles, manufactured by **Tamko Roofing Products, Inc.** as described in this Notice of Acceptance.

2. PRODUCT DESCRIPTION

Product	Dimensions	Test Specifications	Product Description
Heritage Declaration & Heritage XL	12" x 36"	TAS 110	A heavy weight dimensional asphalt shingle.

3. EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
PRI Asphalt Technologies, Inc.	TAS 100	TAP-066-02-01	01/09/03
		TAP-073-02-01	05/20/03
Underwriters Laboratories, Inc.	ASTM D 3462	R2919	06/12/03
Underwriters Laboratories, Inc.	TAS 107	03CA08442	06/12/03

4. LIMITATIONS

4.1 Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.

4.2 Shall not be installed on roof mean heights in excess of 33 ft.

4.3 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

5. INSTALLATION

5.1 Shingles shall be installed in accordance with Roofing Application Standard RAS 115.

5.2 The manufacturer shall provide clearly written application instructions.

5.3 Exposure and course layout shall be in compliance with Detail 'A', attached.

5.4 Nailing shall be in compliance with Detail 'B', attached.

6. LABELING

5.1 Shingles shall be labeled with the Miami-Dade Logo or the wording "Miami-Dade County-Product Control Approved".

7. BUILDING PERMIT REQUIREMENTS

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

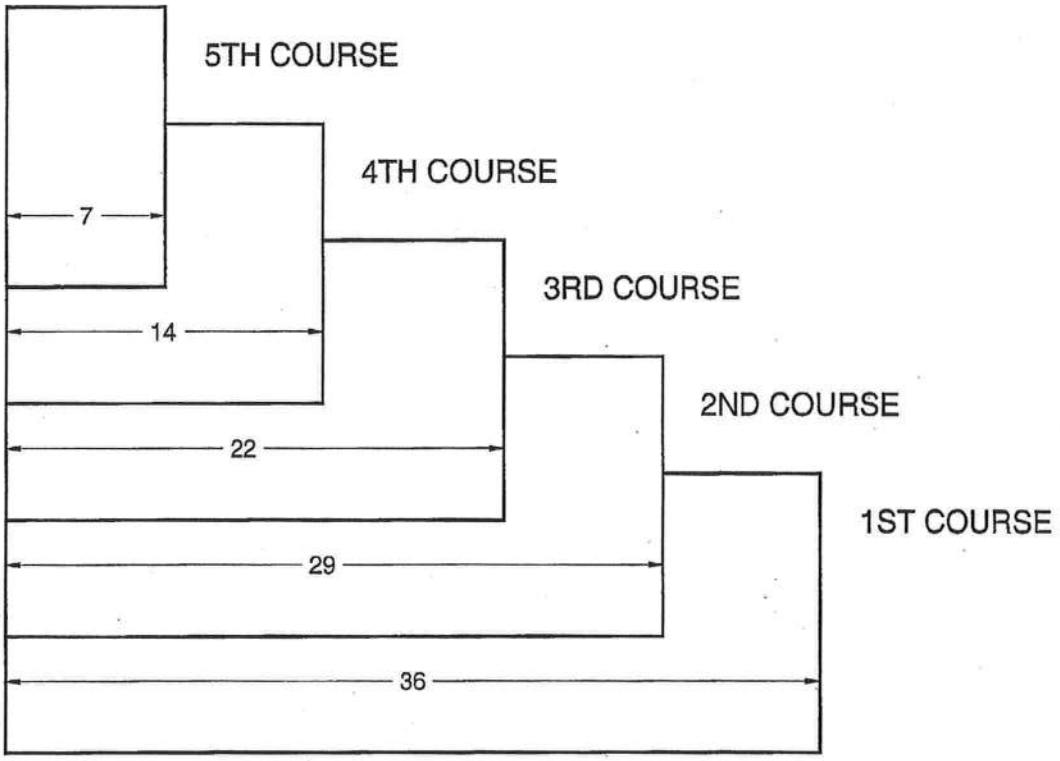
7.1.1 This Notice of Acceptance.

7.1.2 Any other documents required by the Building Official or the applicable Building Code in order to properly evaluate the installation of this system.

DETAIL A

HERITAGE DECLARATION & XL

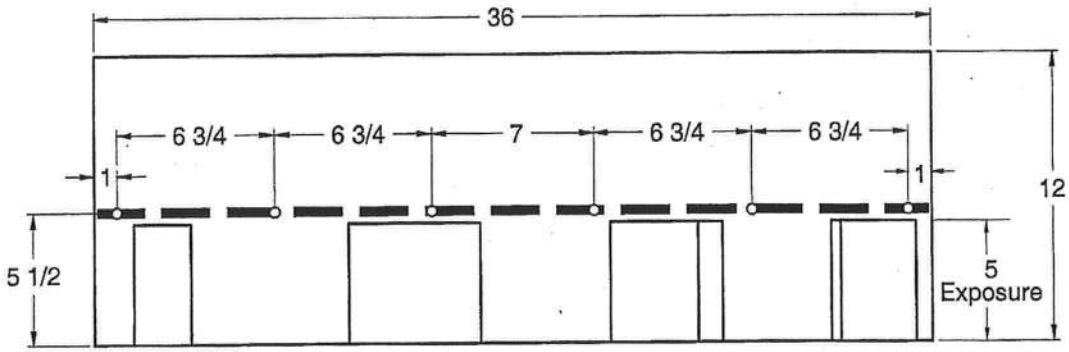
All dimensions are in inches.



DETAIL B

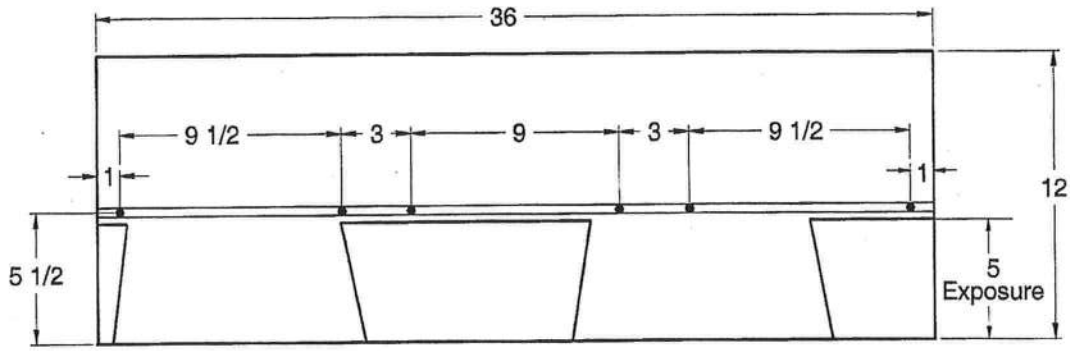
HERITAGE DECLARATION

12" x 36" LAMINATED SHINGLE
All dimensions are in inches.



HERITAGE XL

12" x 36" LAMINATED SHINGLE
All dimensions are in inches.



END OF THIS ACCEPTANCE

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Clopay Building Products Co.
8585 Duke Blvd.
Mason, OH 45040

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone.

DESCRIPTION: Sectional Garage Door 16'- 2" Wide.

APPROVAL DOCUMENT: Drawing No. 101300, titled "Double Car Hurricane Pan Door", dated 02/15/95 with last revision on 01/06/04, sheets 1 and 2 of 2, prepared by Clopay Building Products Co, signed and sealed by M. W. Westerfield, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

LIMITATION: This approval requires the manufacturer to do testing of all coils used to fabricate door panels under this Notice of Acceptance. A minimum of 2 specimens shall be cut from each coil and tensile tested according to ASTM E-8 by a Dade County approved laboratory selected and paid by the manufacturer. Every 3 months, four times a year, the manufacturer shall mail to this office: a copy of the tested reports with confirmation that the specimen were selected from coils at the manufacturer production facilities. And a notarized statement from the manufacturer that only coils with yield strength of 38000 psi or more shall be used to make door panels for Dade County under this Notice of Acceptance

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 03-0829.05 and consists of this page, evidence page as well as the approval document mentioned above.

The submitted documentation was reviewed by **Candido E. Font PE.**

03/23/06

PRODUCT CONTROL ACCEPTED

NOA No 05-1212.02
Expiration Date: March 26, 2007
Approval Date: March 23, 2006

Clopay Building Products Co.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWINGS

1. *Drawing prepared by Clopay Building Products Co., titled "Double Car Hurricane Pan Door", Drawing No. 101300, dated 02/15/95, with last revision on 01/06/2004, sheets 1 through 2 of 2, signed and sealed by M.W. Westerfield, PE.*

B. TESTS

1. *Test report of large missile impact test per PA 201 and cyclic wind pressure test per PA 203 of " Garage Door", prepared by Hurricane Engineering & Testing, Inc., report No. HETI 95-408, dated 01/25/95, signed and sealed by H. M. Medina, PE.*
2. *Test report of Uniform Static Air Pressure Test Per PA 202 on " Garage Door", prepared by Hurricane Engineering & Testing, Inc., report No. HETI 95-407, dated 01/24/95, signed and sealed by H. M. Medina, PE.*
3. *Test report of Forced Entry Resistance per section 3603.2(b)5 on "Garage Door" prepared by Hurricane Engineering Testing, Inc. report No. HETI 95-407f, dated 01/25/95, signed and sealed by H. M. Medina, PE.*

C. CALCULATIONS

1. *Calculations dated 01/20/95; pages 1 and 2, prepared by M. W. Westerfield, PE, signed and sealed by M. W. Westerfield, PE.*
2. *Calculations dated 02/24/95, page 1, prepared M.W. Westerfield, PE, signed and sealed by M.W. Westerfield, PE.*

D. MATERIAL CERTIFICATIONS

1. *Test report of Tensile Test per ASTM E 8, report No. HETI 94-T59, prepared by Hurricane Engineering & Testing, Inc., dated 02/06/95, signed and sealed by H.M. Medina, PE.*
2. *Test report of Salt Spray Test per ASTM D1654 & ASTM B117, report No. 9EM-1144, prepared by Q.C. Metallurgical, Inc., dated 06/03/99, signed and sealed by K. Grate.*

E. STATEMENTS.

1. *Affidavit of yield strength compliance prepared by R. D. Shifflett employed by Clopay Building Products Co., notarized on 01/11/2001 by B. H. Schuler.*

F. QUALITY ASSURANCE.

1. *Building Code Compliance Office.*

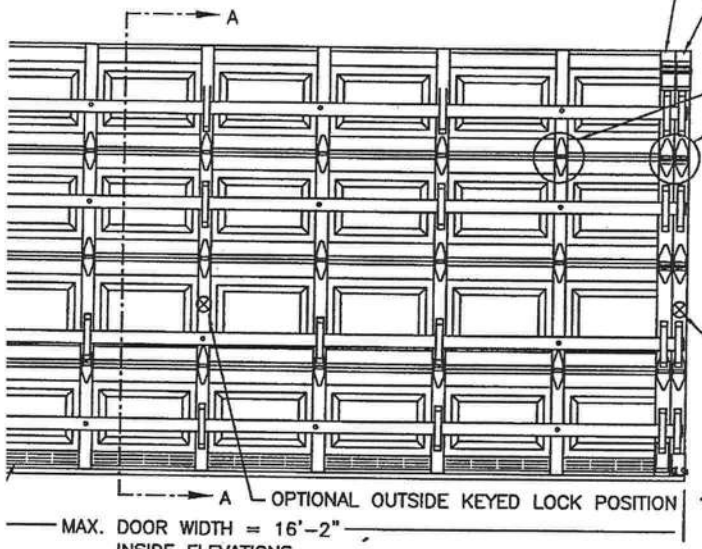
03/23/06

Candido F. Font, PE.
Senior Product Control Division
NOA No 05-1212.02
Expiration Date: March 26, 2007
Approval Date: March 23, 2006

5	8/25/2003	ADDED EXTEN
6	1/6/2004	JAMB ATTACH

PATENTED TOG-L-LOC SYSTEM (TOP & BOT)
NE ADHESIVE (ALONG CENTER)

16 GA. PAINTED END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM (TOP, BOTTOM & CENTER).

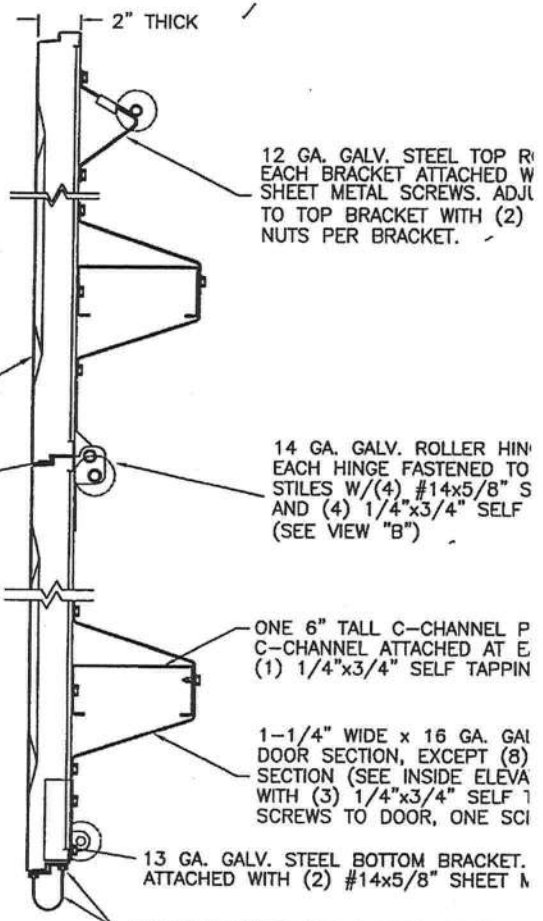


INSIDE ELEVATIONS

LOCK POSITION (BOTH SIDES) TWO POINT LOCKING HAS BEEN TESTED PER REQUIREMENTS OF SECTION 12.1 OF TAS 202. LOCKS HAVE 5/8" MIN. ENGAGEMENT. DOOR TESTED FOR FORCED ENTRY WITH BOTH OUTSIDE KEYED LOCK AND INSIDE SLIDE BOLT LOCK OPTIONS (SEE LAYOUT OF EACH LOCK ON NEXT PAGE).

⚠ ⚠ 24 GA. DDS STEEL (MIN. YIELD STRENGTH: 38 KSI) EXTERIOR SKIN WITH G-40 GALVANIZING, BAKED-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN. (ASTM No. A653).

SHIP LAP JOINTS.



SECTION A-A (SIDE VIEW)

HIGH

PANEL, GALV. INTER. STILES
PANEL, PAINTED/GALV. INTER. STILES

3, 84A, 93, 94
GH
ONTAL TRACK SUPPORT BY
DOOR INSTALLER (TO SUIT)
ANCE SYSTEM

L CONTINUOUS
ANGLE.

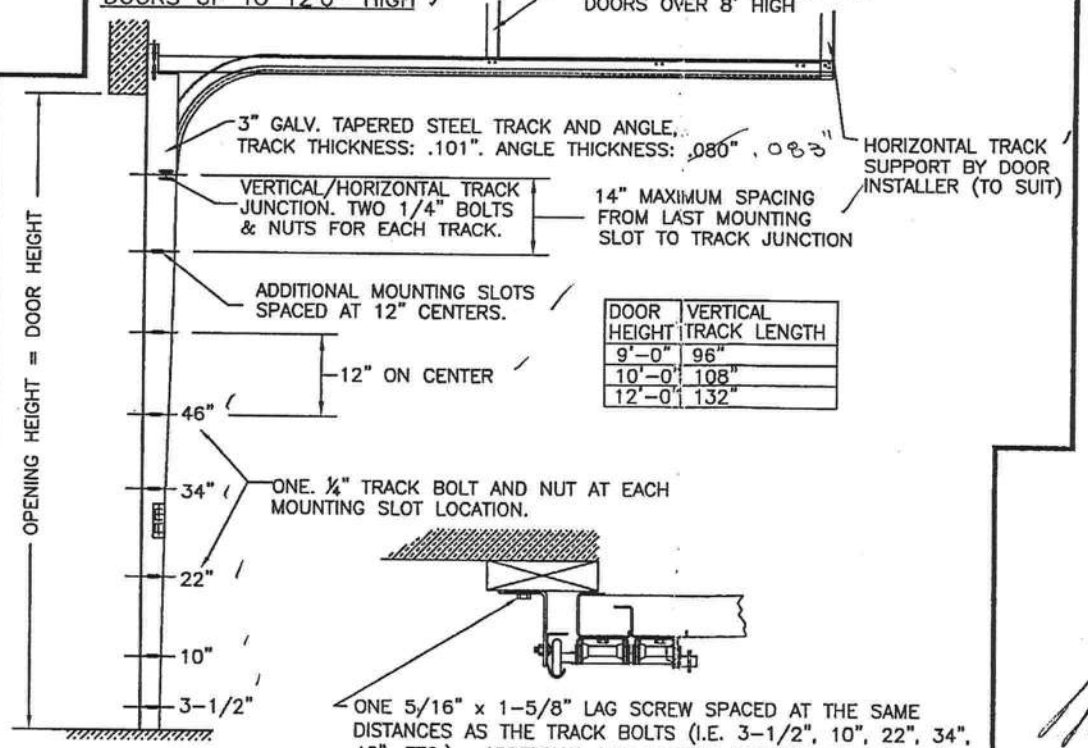
DORS ONLY)

URATION

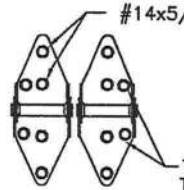
DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"

ACK, .083"

TRACK CONFIGURATION
EXTENDED HEIGHT MODELS H93, H94
DOORS UP TO 12'0" HIGH



DOOR HEIGHT	VERTICAL TRACK LENGTH
9'-0"	96"
10'-0"	108"
12'-0"	132"



14 GA. END HINGES
VIEW "B"

1/6/04

DESIGN LOADS: +46.6 P.S.F. & -52.0 P.S.F. (MODELS 83, 84A, 93,
DESIGN LOADS: +46.6 P.S.F. & -51.7 P.S.F. (MODELS H93, H94)

5	8/25/03	ADDED EXTENDE
6	1/6/04	JAMB ATTACHME

UM DESIGN LOAD OF +372.8 LB & −416 LB. PER LINEAR FOOT OF JAMB.
NOT REQUIRED) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

. BE FRAMED SOLID BY NOT LESS THAN (3) 2x6 PRESSURE TREATED GRADE
ESS GRADE NOT LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS
3'0" HIGH. STUD WALLS TO BE CONTINUOUS FROM FOOTING TO TIE BEAMS
A BUILDING CODE. (4) 2x6 PRESSURE TREATED GRADE #2 OR BETTER
LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS IN BENDING FOR

TE

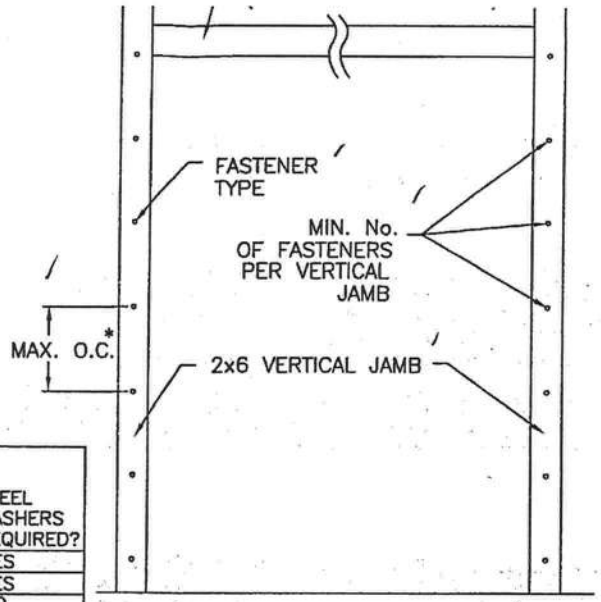
) TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN.
WITH CONCRETE AND REINFORCED WITH #5 BAR EXTENDING
MS. ALL BARS SHALL BE CONTINUOUS FROM THE TIE BEAMS
NCRETE COLUMN. BLOCK WALLS AND CONCRETE COLUMNS TO BE
. OF RECORD AND IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

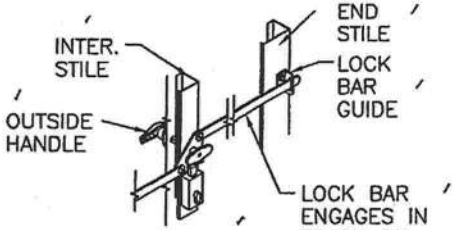
SUPPORTING STRUCTURE ATTACHMENT

MENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
EMBED LAG SCREW (ASTM A307, GRADE A) 1-1/2" EMBED INTO STRUCTURE	16"	YES
3/4" MIN. EMBED ELCO TAPCON CONCRETE ANCHOR	10"	YES
3/4" MIN. EMBED POWER-STUD EXPANSION ANCHOR (7400 SERIES)	16"	NO
1/4" MIN. EMBED POWER LOK/BOLT ANCHOR BOLT (5000 SERIES)	14"	NO

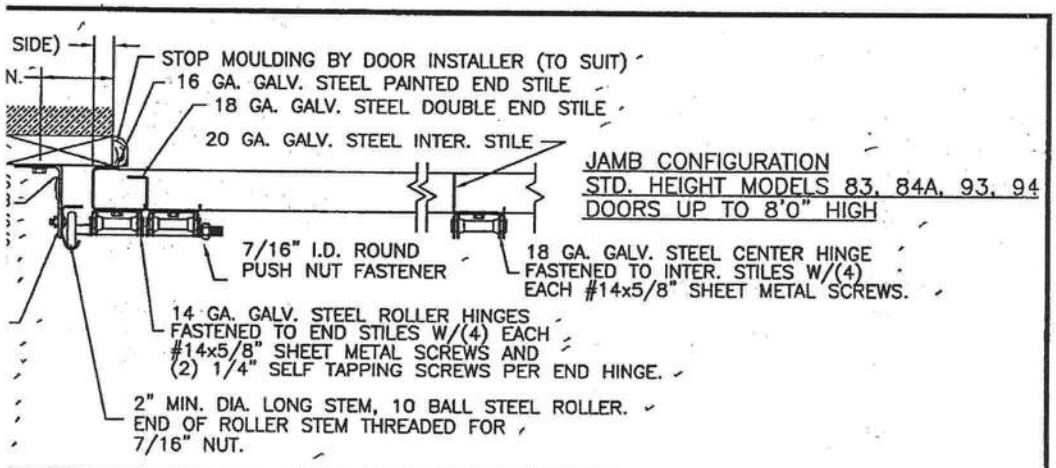
ANCHOR AND EDGE OF CONCRETE BLOCK: 3", EXCLUDING STUCCO THICKNESS.
NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
MENT FASTENERS.
AD HAS BEEN USED IN THE DESIGN OF CONCRETE ANCHORS & WOOD FASTENERS.

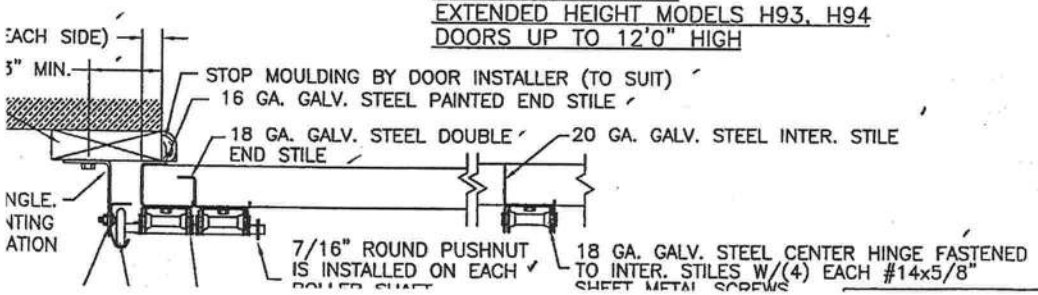




INTER.

OUTSIDE KEYE
HANDL





JAMB PREPARATION NOTE
EACH CONTINUOUS ANGLE TRACK SHALL BE FASTENED TO
PINE WOOD JAMBS WITH 5/16"x1-5/8" LAG SCREWS (12
7'0" HIGH AND (13) LAG SCREWS PER SIDE UP TO 8'0"
TO 9'0" HIGH, (15) LAG SCREWS PER SIDE UP TO 10'0"
SIDE UP TO 11'0" HIGH, (17) LAG SCREWS PER SIDE U
ATTACHMENT TO THE SUPPORTING STRUCTURE OF THE PRI
SHALL BE APPROVED BY THE PROFESSIONAL OF RECORD
ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LO
PREPARATION OF JAMBS BY OTHERS.

ALL MOUNTING OF TRACK, ANGLES, HORIZONTAL TRACK SU
DOOR HARDWARE TO BE INSTALLED PER CLOPAY INSTALLA
SUPPLIED WITH DOOR SYSTEM UNLESS OTHERWISE NOTED.

1/6/04

DESIGN ENGINEER
MARK W. WESTERFIELD, P.E.
FLORIDA REGISTRATION No. 48495

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 05-1212.4
Expiration Date 03/29/0
By
Miami-Dade Product Control
Division

DESIGN LOADS: +46.6 P.S.F. & −52.0 P.S.F. (MODELS 83,
DESIGN LOADS: +46.6 P.S.F. & −51.7 P.S.F. (MODEL H93,

MIAMI-DADE
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Therma-Tru Corporation
108 Mutzfeld Road
Butler, IN 46721

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee (BCPRC) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: Outswing Glazed Residential Steel Door w\Sidelites

APPROVAL DOCUMENT: Drawing No. S-2003, titled "Therma-Tru Wood edge Outswing", sheets 1 through 6 to 6, prepared by RW Consulting, dated 3/9/01, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

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

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

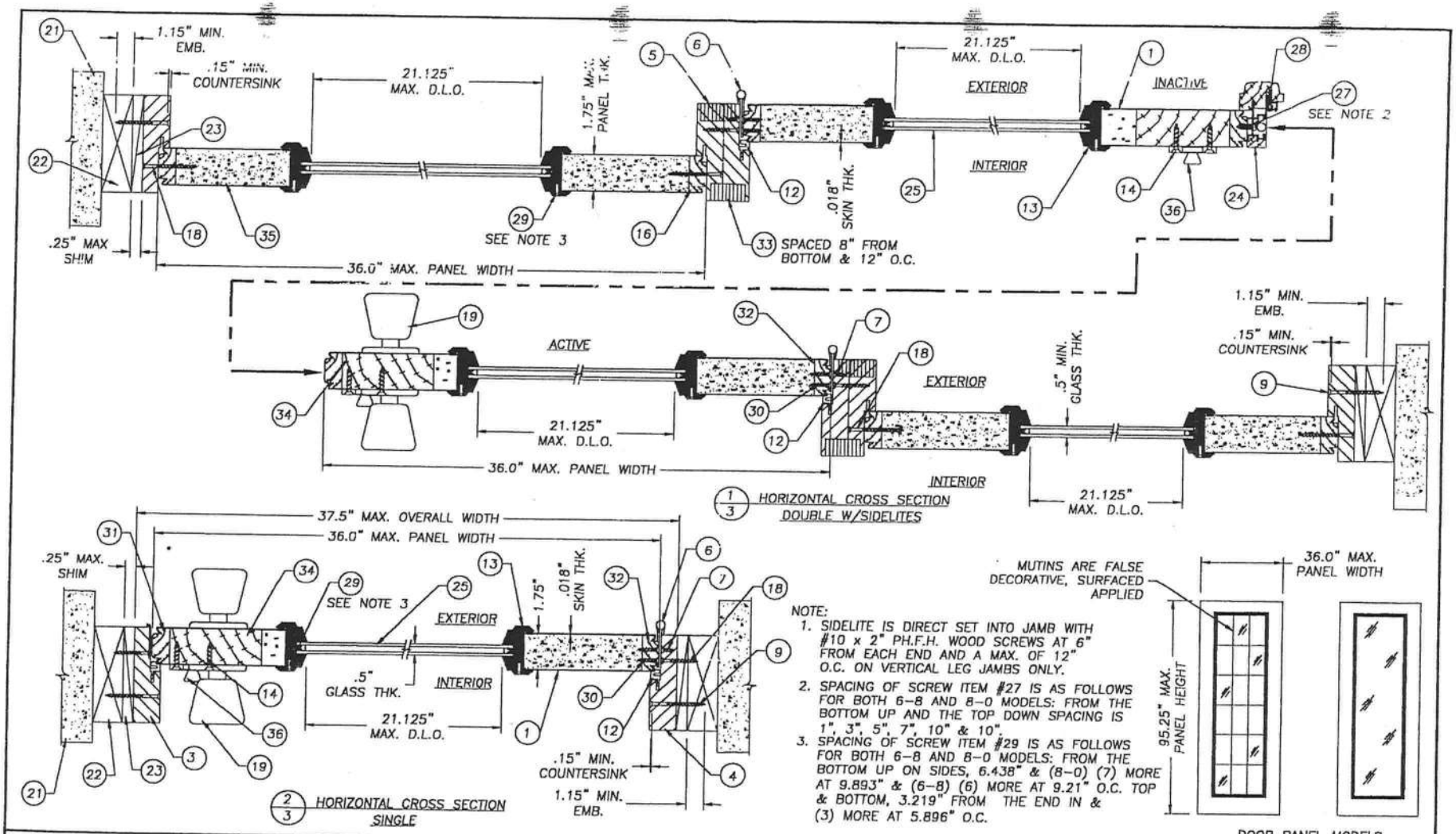
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 00-0207.06** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez.**

PRODUCT CONTROL ACCEPTED



NOTE:
1. SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.
2. SPACING OF SCREW ITEM #27 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP AND THE TOP DOWN SPACING IS 1", 3", 5", 7", 10" & 10"
3. SPACING OF SCREW ITEM #29 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP ON SIDES, 6.438" & (8-0) (7) MORE AT 9.893" & (6-8) (6) MORE AT 9.21" O.C. TOP & BOTTOM, 3.219" FROM THE END IN & (3) MORE AT 5.896" O.C.

THERMA TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

NO.	DATE		BY
2	3/09/01	GENERAL REVISION	RW
1	4/11/00	GENERAL REVISION	TJH

REVISIONS

PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES

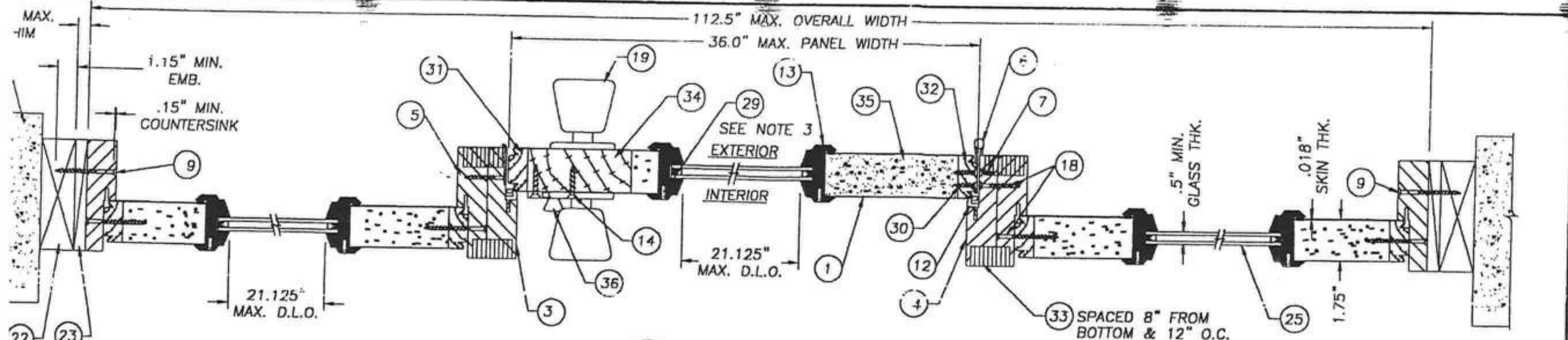
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & DOOR MODELS

RW BUILDING CONSULTANTS, INC. 813.684.3831

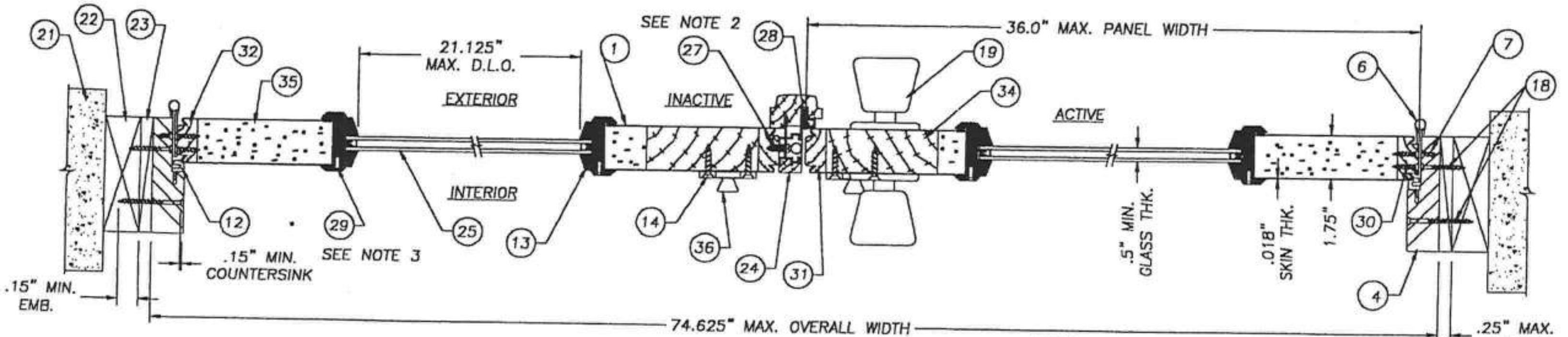
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 02-0418.01 Expiration Date Oct. 07, 07
By Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE APRIL 03, 2001
BY Ishaq I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0207.06

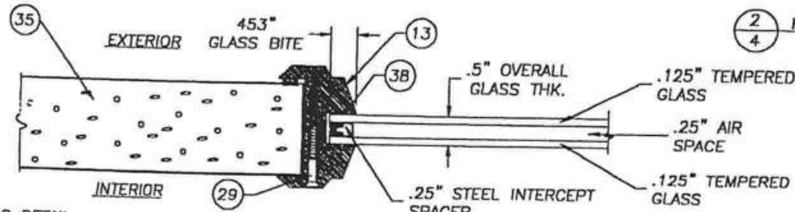
DATE:	3/3/00
SCALE:	N.T.S.
DWG. BY:	TJH
CHK. BY:	RW
DRAWING NO.:	S-2003
SHEET	3 OF 6



HORIZONTAL CROSS SECTION SINGLE W/SIDELITES (1/4)



HORIZONTAL CROSS SECTION DOUBLE (2/4)



G DETAIL

NOTE:

1. SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.
2. SPACING OF SCREW ITEM #27 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP AND THE TOP DOWN SPACING IS 1", 3", 5", 7", 10" & 10".
3. SPACING OF SCREW ITEM #29 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP ON SIDES, 6.438" & (8-0) (7) MORE AT 9.893" & (6-8) (6) MORE AT 9.21" O.C. TOP & BOTTOM, 3.219" FROM THE END IN & (3) MORE AT 5.896" O.C.

THERMA TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

NO.	DATE	REVISIONS	BY
2	3/09/01	GENERAL REVISION	RW
1	4/11/00	GENERAL REVISION	TJH

PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES

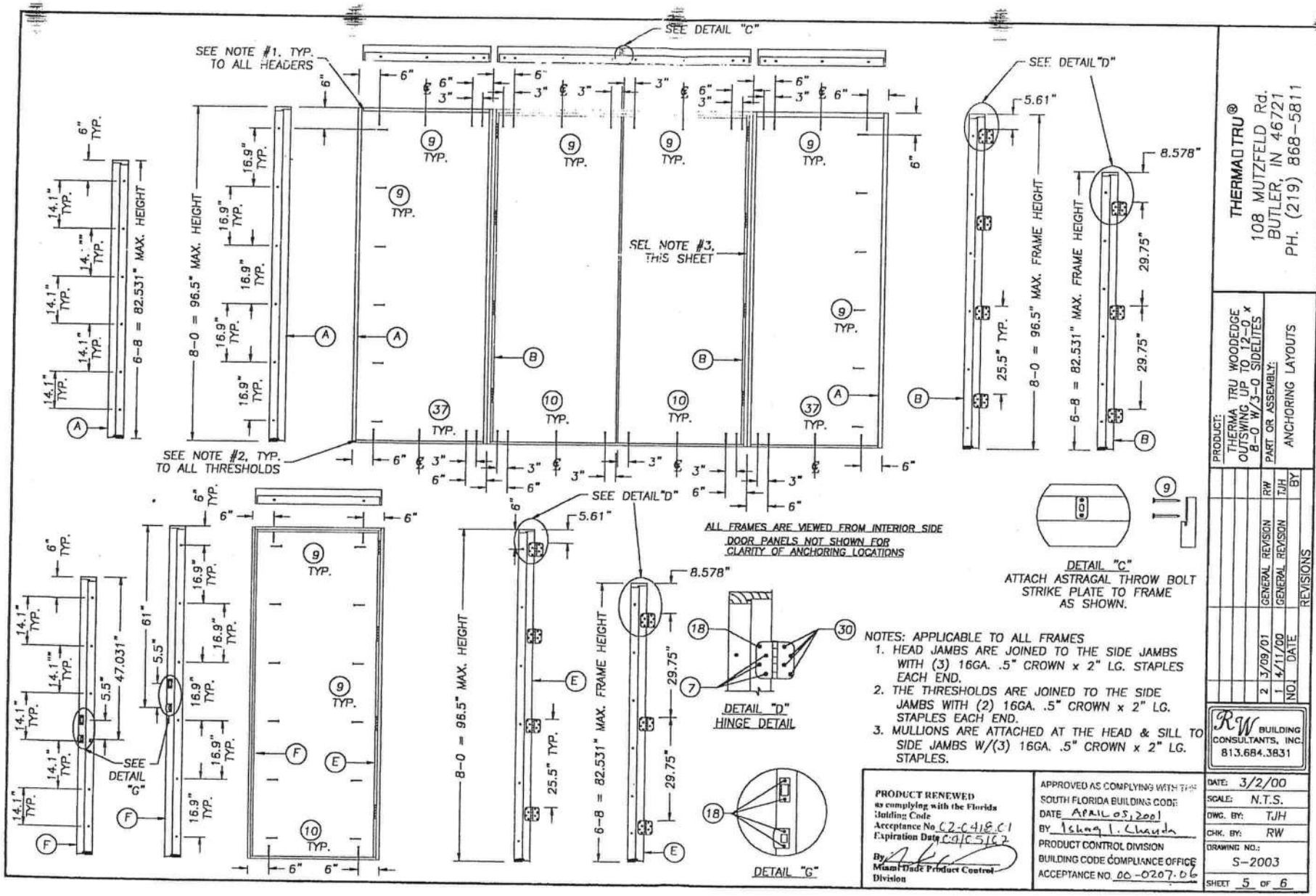
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & GLAZING DETAIL

RW BUILDING CONSULTANTS, INC. 813.684.3831

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 02-0418.01
Expiration Date 04/05/07
By Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE APRIL 05, 2001
BY Ishaq I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 00-0207.06

DATE: 3/3/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2003
SHEET 4 OF 6



NOTES: APPLICABLE TO ALL FRAMES

1. HEAD JAMBS ARE JOINED TO THE SIDE JAMBS WITH (3) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.
2. THE THRESHOLDS ARE JOINED TO THE SIDE JAMBS WITH (2) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.
3. MULLIONS ARE ATTACHED AT THE HEAD & SILL TO SIDE JAMBS W/(3) 16GA. .5" CROWN x 2" LG. STAPLES.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 02-0418.01
Expiration Date 04/05/07
By: Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE APRIL 05, 2001
BY Ishaq I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0207.06

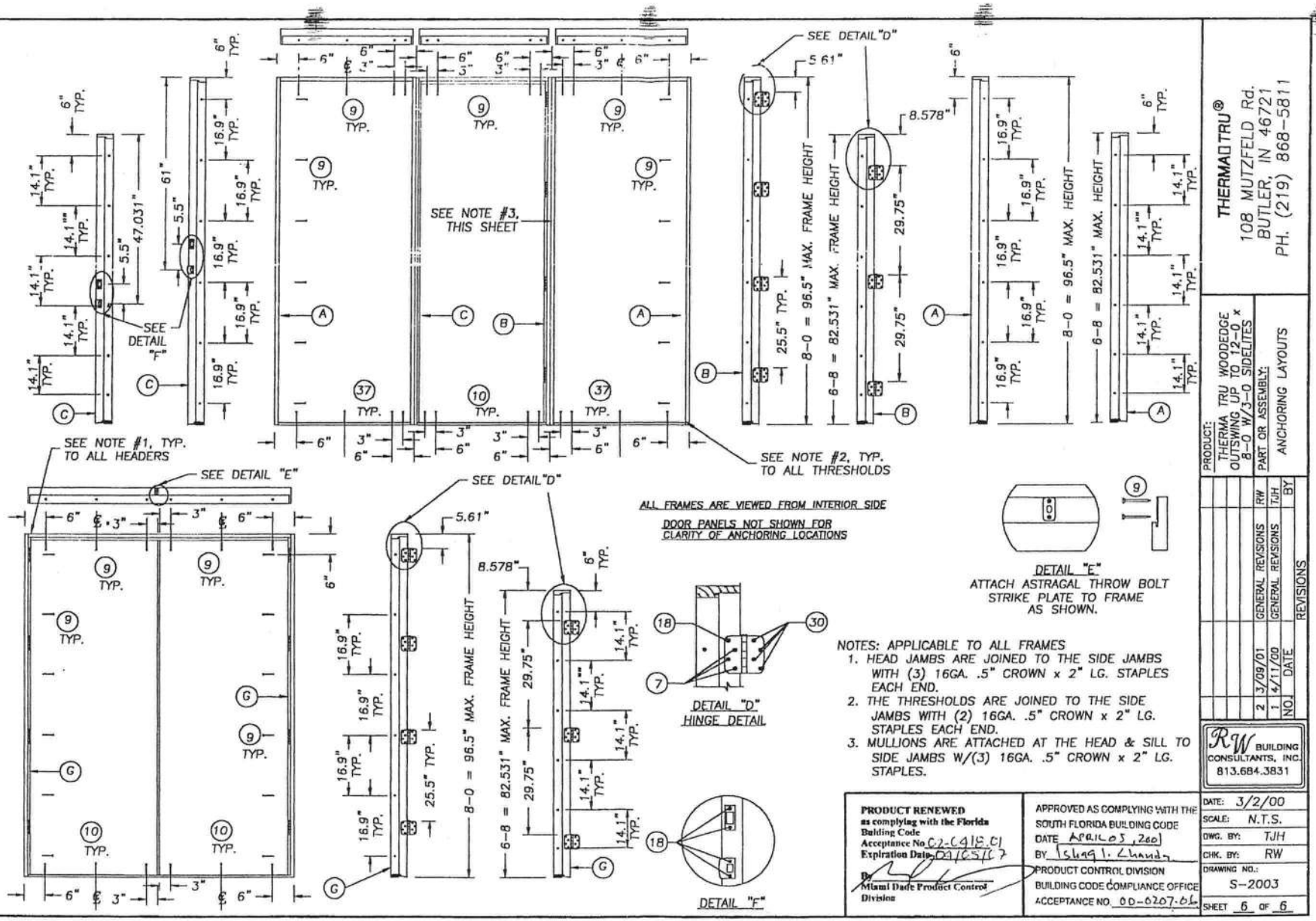
THERMA TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES
PART OR ASSEMBLY: ANCHORING LAYOUTS

NO.	DATE	REVISIONS	BY
1	4/11/00	GENERAL REVISION	TJH
2	3/09/01	GENERAL REVISION	RW

RW BUILDING CONSULTANTS, INC.
813.684.3831

DATE: 3/2/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2003
SHEET 5 OF 6



DETAIL "D"
HINGE DETAIL

DETAIL "E"
ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN.

DETAIL "F"

NOTES: APPLICABLE TO ALL FRAMES

1. HEAD JAMBS ARE JOINED TO THE SIDE JAMBS WITH (3) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.
2. THE THRESHOLDS ARE JOINED TO THE SIDE JAMBS WITH (2) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.
3. MULLIONS ARE ATTACHED AT THE HEAD & SILL TO SIDE JAMBS W/(3) 16GA. .5" CROWN x 2" LG. STAPLES.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 02-0416.01
Expiration Date: 09/05/07
By: Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE APR. 10 3, 2001
BY Ishaq I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0207.06

THERMA-TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES
PART OR ASSEMBLY: ANCHORING LAYOUTS

NO.	DATE	REVISIONS	BY
2	3/09/01	GENERAL REVISIONS	RW
1	4/11/00	GENERAL REVISIONS	TJH

RW BUILDING CONSULTANTS, INC.
813.684.3831

DATE: 3/2/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2003
SHEET 6 OF 6

THERMA-TRU®

"CONSTRUCTION" AND "PREMIUM" SERIES
INSULATED STEEL DOOR WITH WOOD FRAMES.

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED.
5. DESIGNED PRESSURE RATING SEE TABLE PAGE 1.
6. SIDELITES ARE AN OPTION AND CAN BE IN A SINGLE OR DOUBLE CONFIGURATION.

RESIDENTIAL INSULATED STEEL DOOR
(Common to all frame conditions)

Door Leaf Construction:

Face sheets: 25 GA.(0.018")minimum thickness, Galvanized steel A-525 commercial quality - AKDQ per ASTM 620 with yield strength Fy(min.)=47,000 psi

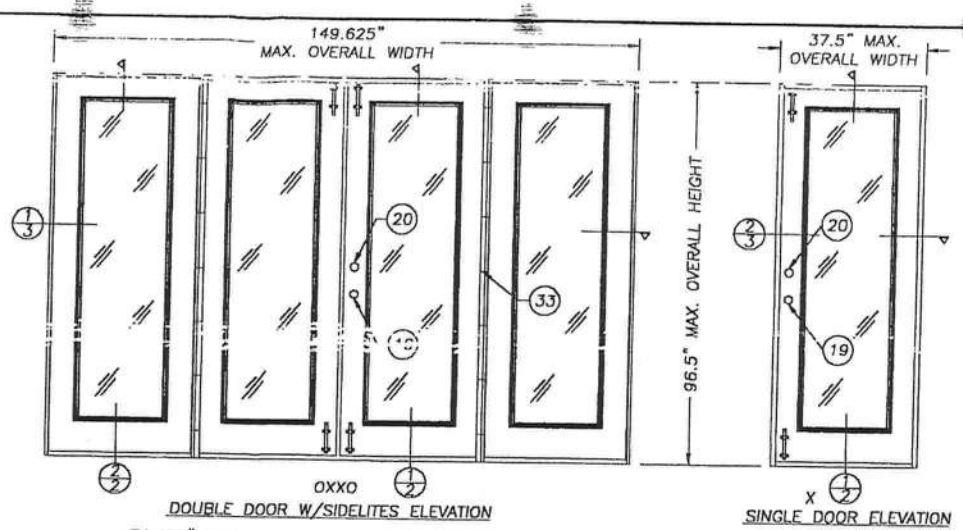
Core design: Polyurethane foam core, with1.9 lbs. density by BASF.

Construction: Flush or embossed type. The vertical edges of the skin, are rolled formed to provide a mechanical interlock with finger jointed pine stiles. Wood composite end rails are butt jointed to styles at corners. Panels are sandwich glazed using a two piece PVC lite frame with mitered & welded corners.

TABLE OF CONTENTS

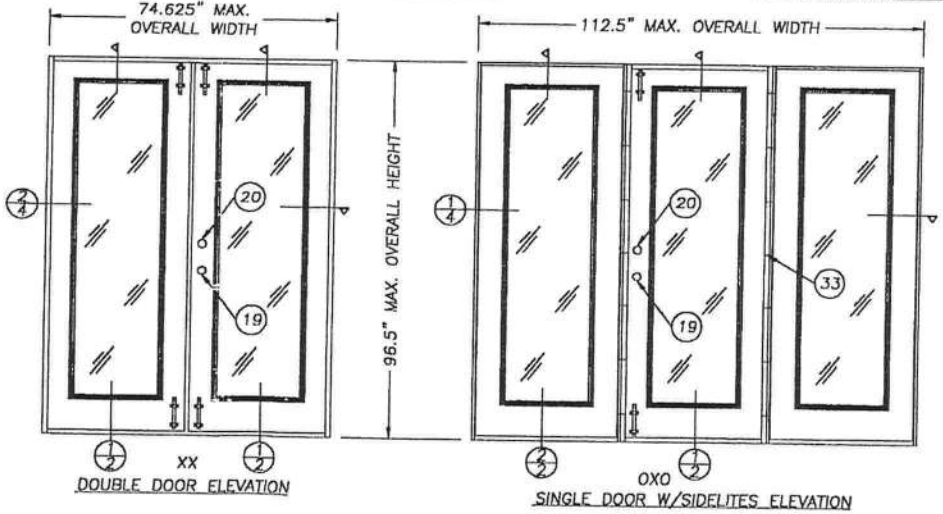
SHEET #	DESCRIPTION
1	COMMON (GENERAL NOTES, TYPICAL ELEVATION)
2	VERTICAL CROSS SECTIONS & BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS & DOOR MODELS
4	HORIZONTAL CROSS SECTIONS & GLAZING DETAILS
5	ANCHORING LOCATIONS
6	ANCHORING LOCATIONS

DESIGN PRESSURE RATING	
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED
POSITIVE	+ 48.0 PSF
NEGATIVE	- 51.0 PSF



DOUBLE DOOR W/SIDELITES ELEVATION

SINGLE DOOR ELEVATION



DOUBLE DOOR ELEVATION

SINGLE DOOR W/SIDELITES ELEVATION

ALL DOOR MODELS ARE VIEWED FROM THE INTERIOR SIDE (OUTSWING DOORS)

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 02-0418.01
Expiration Date 04/09/07
By
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE APRIL 05, 2001
BY Isaac J. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0207.06

THERMA-TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

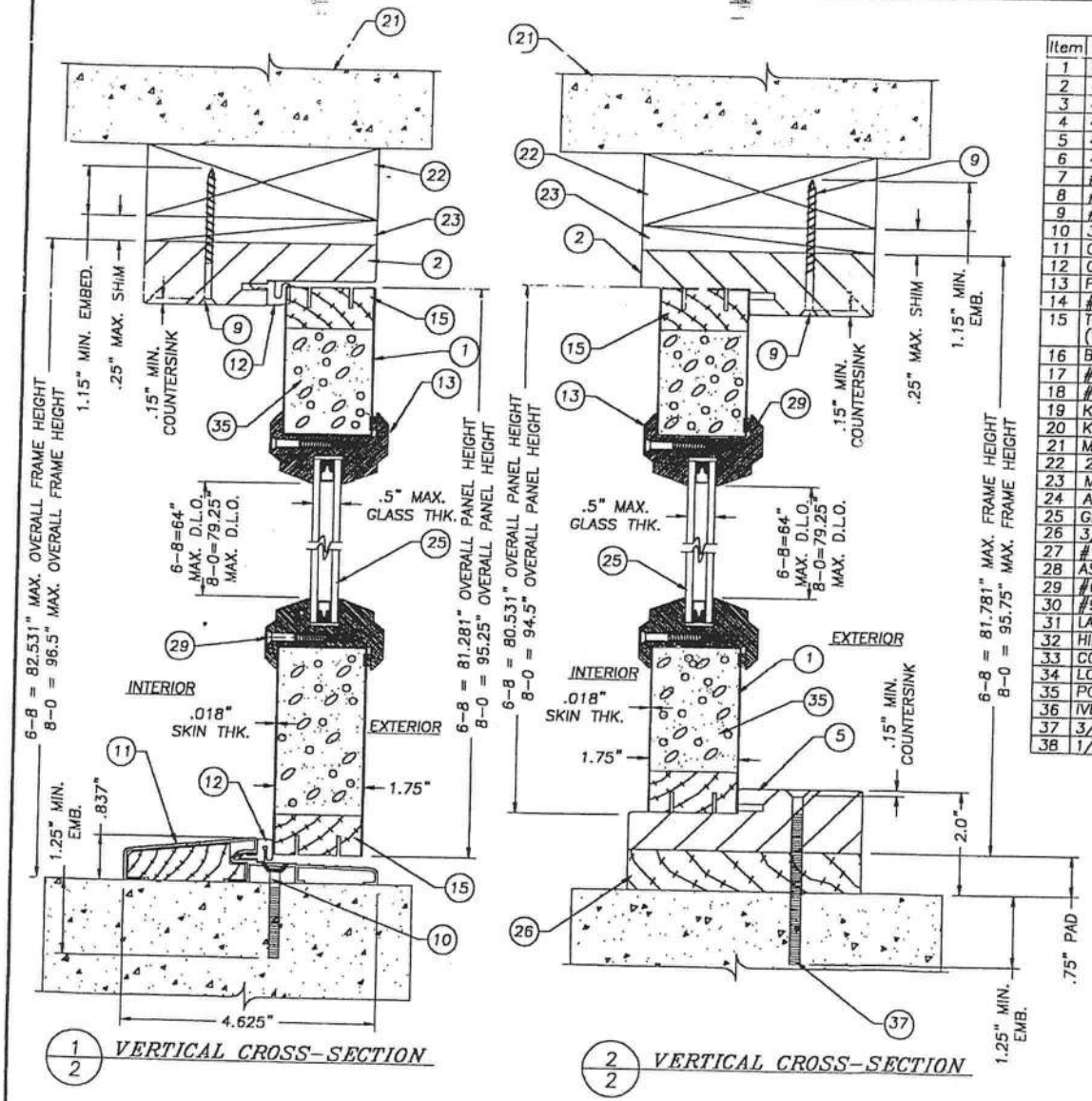
PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES

PART OR ASSEMBLY: ELEVATIONS AND GENERAL NOTES

NO.	DATE	REVISIONS	BY
2	3/09/01	GENERAL REVISION	RW
1	4/11/00	GENERAL REVISION	TJH

RW BUILDING CONSULTANTS, INC.
813.684.3831

DATE: 3/3/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2003
SHEET 1 OF 6



1/2 VERTICAL CROSS-SECTION

2/2 VERTICAL CROSS-SECTION

Item	DESCRIPTION	Material
1	CONSTRUC. SERIES DOOR (25GA. .018" MIN.)	STEEL
2	4 1/2" HEADER (THERMA-TRU)	WOOD
3	4 1/2" LATCH JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
4	4 1/2" HINGE JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
5	4 1/2" BLANK JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
6	4" x 4" HINGE .097" THK. (THERMA-TRU)	STEEL
7	#9 x 3/4" lg. (Hinge to Frame)	STEEL
8	#10 WOOD SCREW X 2 1/2" LG.	STEEL
9	#8 x 2 1/2" LG. WOOD SCREW	STEEL
10	3/16" TAPCON ANCHOR (ELCO, 1.75" MIN. LG.)	STEEL
11	ONE PIECE BUMP FACE THRESHOLD (THERMA-TRU)	ALUM./WOOD
12	COMPRESSION WEATHERSTRIP (THERMA-TRU)	
13	PLASTIC LIP LITE FRAME (PVC, THERMA-TRU)	PVC
14	#10 x 1 1/4" LG. TYPE "A" FLATHEAD	STEEL
15	TOP & BOTTOM RAIL (1.75" x 1.625") (THERMA-TRU, PONDEROSA PINE)	WOOD
16	BLANK SIDE STYLE (THERMA-TRU, PONDEROSA PINE)	WOOD
17	#8 x 1/2" LG. TYPE "AB" PANHEAD	STEEL
18	#10 WOOD SCREW X 2" LG.	STEEL
19	KWIKSET 200 DL PASSAGE	
20	KWIKSET 660 DEADBOLT	
21	MASONRY WALL	
22	2x WOOD BUCK	WOOD
23	MAX. 1/4" SHIM MATERIAL	WOOD
24	ASTRAGAL (.052" WALL THK.)	WOOD/ALUM.
25	GLAZING, 1/2" INSULATED TEMPERED GLASS	GLASS
26	3/4" THK. PRESSURE TREATED SIDELITE PAD	WOOD
27	#12 x 1/2"LG. PANHEAD SHEET METAL SCREW	STEEL
28	ASTRAGAL WEATHERSRIP	VINYL
29	#6-18 x 1 3/4" PHILLIPS FLATHEAD SCREW	STEEL
30	#9 x 1" LG. PHILLIPS FLATHEAD SCREW	STEEL
31	LATCH SIDE STYLE (THERMA-TRU, PONDEROSA PINE)	WOOD
32	HINGE SIDE STYLE (THERMA-TRU, PONDEROSA PINE)	WOOD
33	CORRUGATED STAPLE FASTENER (1 1/2" X 3/4")	STEEL
34	LOCK BLOCK (4" x 11" x 1.625")	WOOD
35	POLYURETHANE FOAM (BASF, 1.9lbs. DENSITY)	FOAM
36	IVES SURFACE BOLT (.25" STEEL)	STEEL
37	3/16" TAPCON ANCHOR (ELCO, 3.25" MIN. LG.)	STEEL
38	1/8 THK. CELLULAR GLAZING TAPE (STIK-II TAPE)	–

NOTE:
SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 02-0918.01
Expiration Date: 04/05/07
By: Miami-Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APRIL 05, 2001
BY: Ishaq I. Chanda
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0207.06

THERMA-TRU®
108 MUTZFELD Rd.
BUTLER, IN 46721
PH. (219) 868-5811

PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0 x 8-0 W/3-0 SIDELITES

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS & BILL OF MATERIALS

NO.	DATE	REVISIONS	BY
2	3/09/01	GENERAL REVISION	RW
1	4/11/00	GENERAL REVISION	TJH

RW BUILDING CONSULTANTS, INC.
813.684.3831

DATE: 3/3/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: S-2003
SHEET 2 OF 6

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company. 27441

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: P.O. Box 1795 City Lake City State FL Zip 32056
Company Business License No. JB109476 Company Phone No. 386-755-3611 • 352-494-5751
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Trent Giebeig Construction Company Phone No. 397-0545

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) Elaine Tolar Residence
577 SW Zierke Dr.
Lake City, FL 32024

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1' Inside 2' Type of Fill

Section 4: Treatment Information

Date(s) of Treatment(s) 11/5/08
Brand Name of Product(s) Used Termidor
EPA Registration No. 7969-210
Approximate Final Mix Solution % .06%
Approximate Size of Treatment Area: Sq. ft. 2952 Linear ft. 348 Linear ft. of Masonry Voids 330
Approximate Total Gallons of Solution Applied
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

Name of Applicator(s) S. Gregory Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Shannon Gregory Date 11/5/08

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

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 02-4S-16-02720-005

Building permit No. 000027441

Use Classification SFD/UTILITY

Fire: 51.36

Permit Holder B. TRENT GIEBEIG

Waste: 134.00

Owner of Building ELAINE K. TOLAR

Total: 185.36

Location: 577 SW ZIERKE DRIVE., LAKE CITY, FL

Date: 02/18/2009

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)