Metal Roofing



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Special Order Colors Available

More Attractive & Lasts Longer than Conventional Roofing

Cost Effective & Energy Efficient

Reduces Insurance Premiums

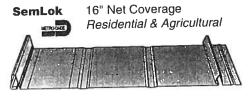
UL & Dade County Listings

Fire Resistant

120 mph High Wind Rating

Installs over Existing Shingles or Solid Decking

Full Line of Accessories & Trims



SM-Rib

36" Net Coverage Residential & Agricultural



5V-Crimp

24" Net Coverage Residential & Agricultural



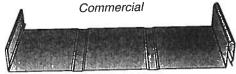
2 1/2" Corrugated

24" Net Coverage - Walls 21 1/2" Net Coverage - Roofs Residential & Agricultural





Verti-Lok 16" Net Coverage



Rock-Lok 16" Net Coverage Commercial







EXHAUST VENT FOR ROOF RIDGE

Cobra Ridge Vents Are The #1 Choice Of Professional Builders & Remodelers!†

The Weather Stopper 5-Part **Roofing System**

1. LEAK BARRIER

Weather Watch* and StormGuard* are the ultimate Leak Barriers! They provide extra protection at vulnerable areas like eaves, rakes, valleys, chimneys, and skylights.

2. ROOF DECK PROTECTION

Shingle-Mate® Roof Deck Protection lays flatter for a better-looking roof. (In the West, premium Leatherback® Roof Deck Protection is a great alternative.)

3. QUALITY SHINGLES

Including Timberline, the #1-selling architectural shingles in America your safest choice in roofing. From the name homeowners have trusted since 1886!

4. EFFECTIVE ATTIC VENTILATION

Cobra® (coil or hard plastic) and Master Flow Ventilation Products help protect against premature roof deterioration (when used in a properly balanced ventilation system).

5. DISTINCTIVE RIDGE CAP SHINGLES

TIMBERTEX® and PacificRIDGE® Distinctive Ridge Cap Shingles enhance the appearance of your home while quarding against leaks at the ridge line.



Homeowner's Best Choice

- Vents Your Attic... Allows heat and condensation to escape at the most effective location—the ridge
- Looks Terrific... 100% shingle-over design is virtually invisible when installed
- Superior Protection...Helps to prevent wood rot and extends the life of your exterior paint
- Safeguards Possessions... Helps limit mildew growth caused by damp attic air
- Energy Efficient...May even reduce your utility bills!
- Safer... Helps prevent problems with insects, birds, and animals in your attic
- Peace Of Mind...Backed by a 40-year ltd. warranty*

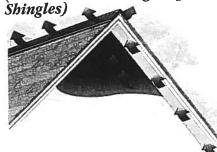
*See ltd. warranty for complete coverage and restrictions.

Professional's Best Choice

- Greater Homeowner Satisfaction...Low-profile design is hidden by ridge cap shingle
- Easy To Install...Quick, 3-step process; no need for complicated fitting, wrapping, connectors, or end plugs
- Nails Included...Smart Nails for reliable installation or 13/1 coil nails for nail guns
- Superior Performance... Net free ventilating area: Cobra® Hand Nail: 16.9 sq. in /linear foot Cobra® Nail Gun: 14.1 sq. in./linear foot at the most effective part of the roof
- More Reliable...Will not crack or dent during shipping or installation; won't corrode, rust, or turn brittle
- Hip & Ridge Compatible...Works with traditional sizes (111/2" & 12")



Stale Air Is Removed Through Cobra Exhaust Vent (Installed Under Ridge Cap



Fresh Air Enters Attic Through Intake Vent At Soffit Or Eave



Balanced Ventilation Requirements

Balanced ventilation requires 1 square foot of ventilation for every 300 square feet of attic floor space.

- Calculate the total square footage of the attic floor area (round up to the next highest number). This number will determine the immunum total linear feet of Cobra Exhaust Vent that is needed.
- 2. Find the appropriate amount of Cobra Exhaust Vent and minimum intake ventilation that corresponds to the total attic square footage.

Total Attic Square Footage	Recommended Length of Cobra Exhaust Vent (Feet)*	Minimum Intake Ventilation (Net Free Area in Sq. In.)
1600	23/27	430
1900	27/32	500
2200	31/37	580
2500	36/42	670
2800	40/47	750
3100	44/52	820
3400	48/57	900
- 11 101	9.01. 9. O	

* Hand Nail/Nail Gun

NOTE: In no case should the amount of ridge exhaust ventilation exceed the amount of soffit ventilation.

BOCA

Research Report #50 4981

US DADE COUNTY COMC

Accorded # 99/14 00-0609 03 See Evaluation Report #12861-8 ICBO Yes Yes Yes Cobra® Hand Nail: Yes Yes U.S. Only Yes No Yes Cobra® Nail Gun: No



And Ventilat

Quality You Can Trust Since 1886... from North America's Largest Roofing, Manufacturer



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 Rd. 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 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: Premium Series 6'8 Opaque Steel Door w & wo sidelites (OS)

APPROVAL DOCUMENT: Drawing No. S-2149, titled "Premium Series" 6-8 Single & Double Out-swing Steel Door", sheets 1 through 8, prepared by RW Building Consultants, Inc., dated 3/28/02, 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: Large and Small Missile Impact and Non-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.

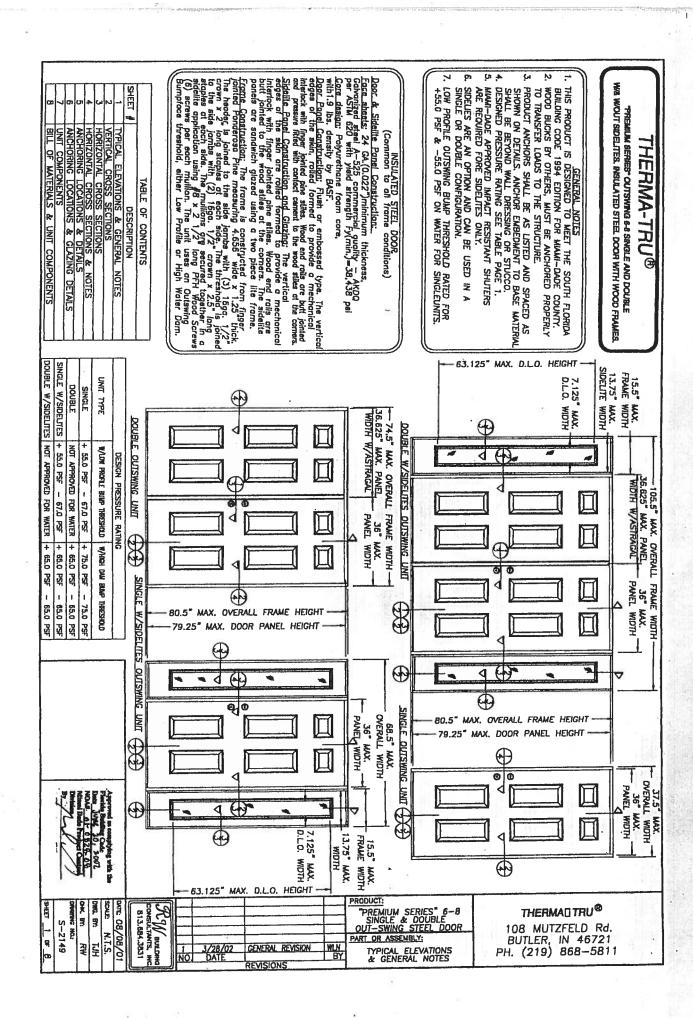
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

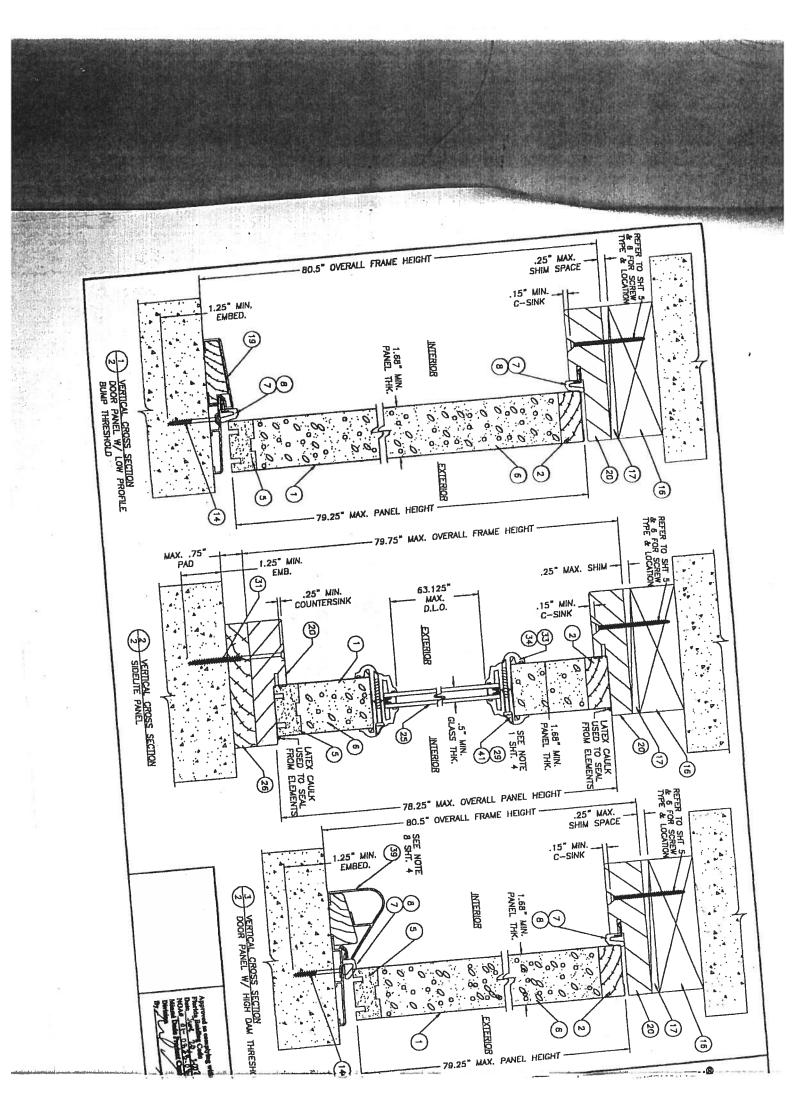
INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

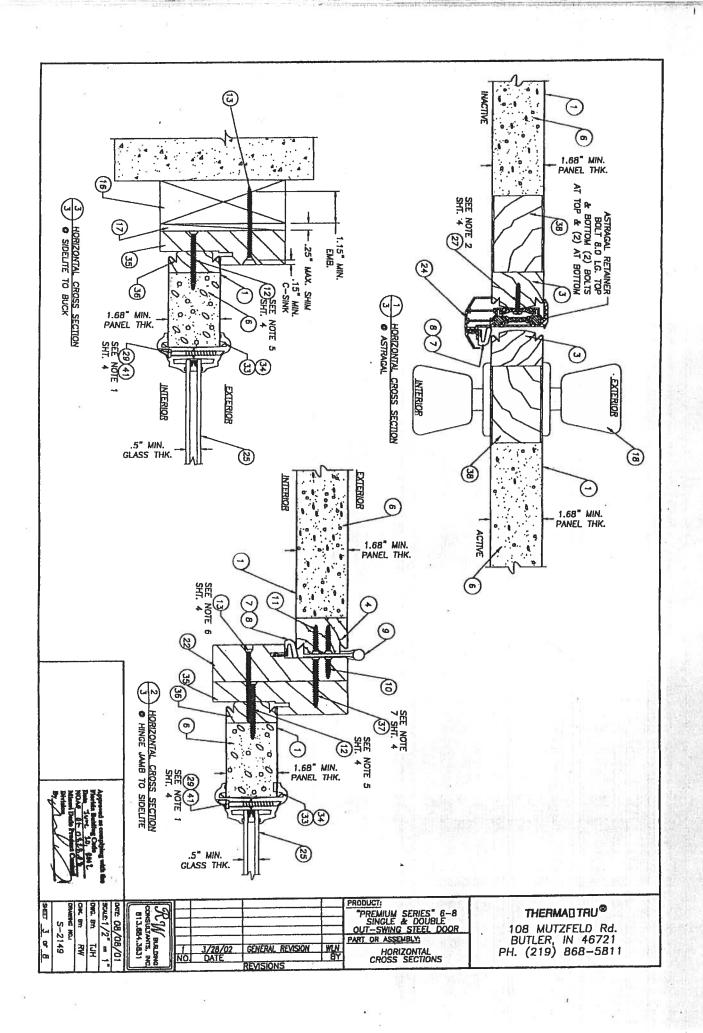
The submitted documentation was reviewed by Raul Rodriguez

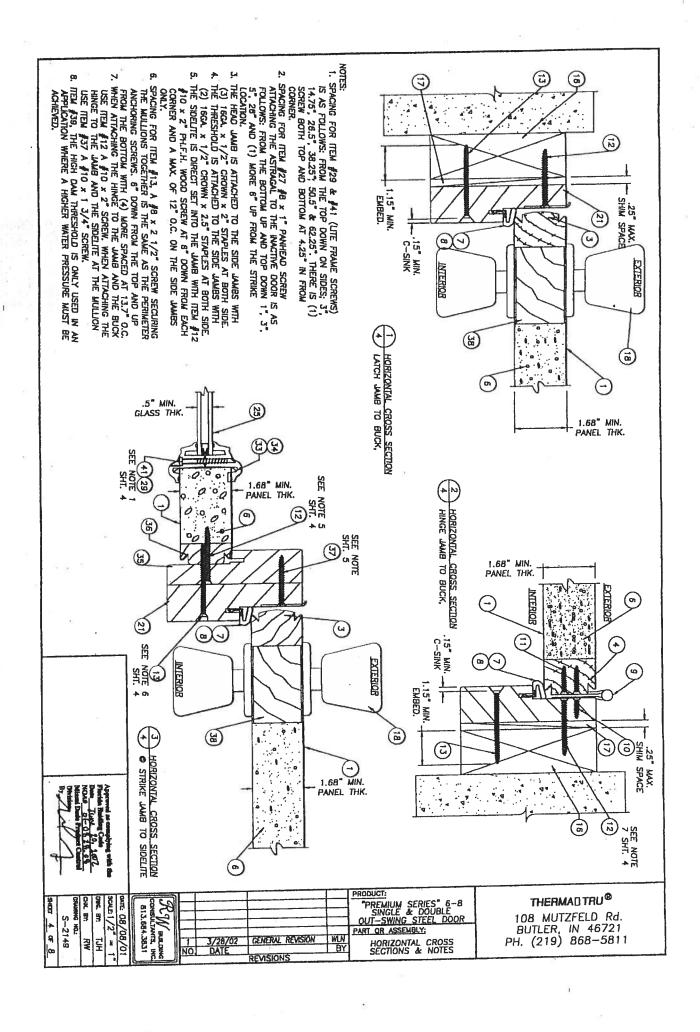


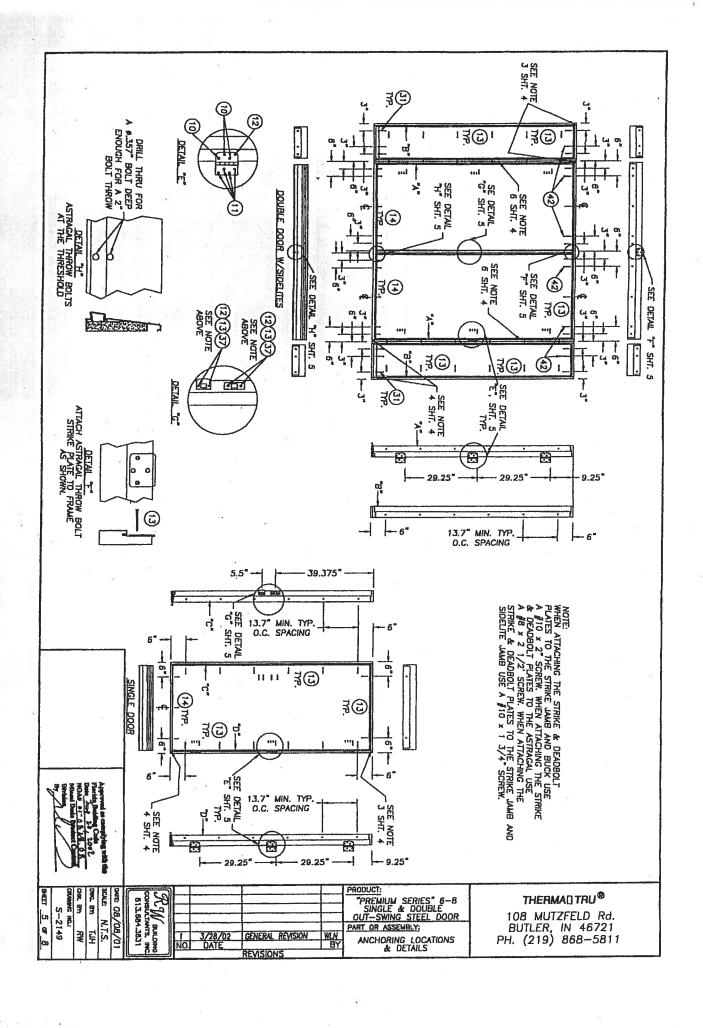
NOA No 01-0828.08 Expiration Date: June 20, 2007 Approval Date: June 20, 2002 Page 1

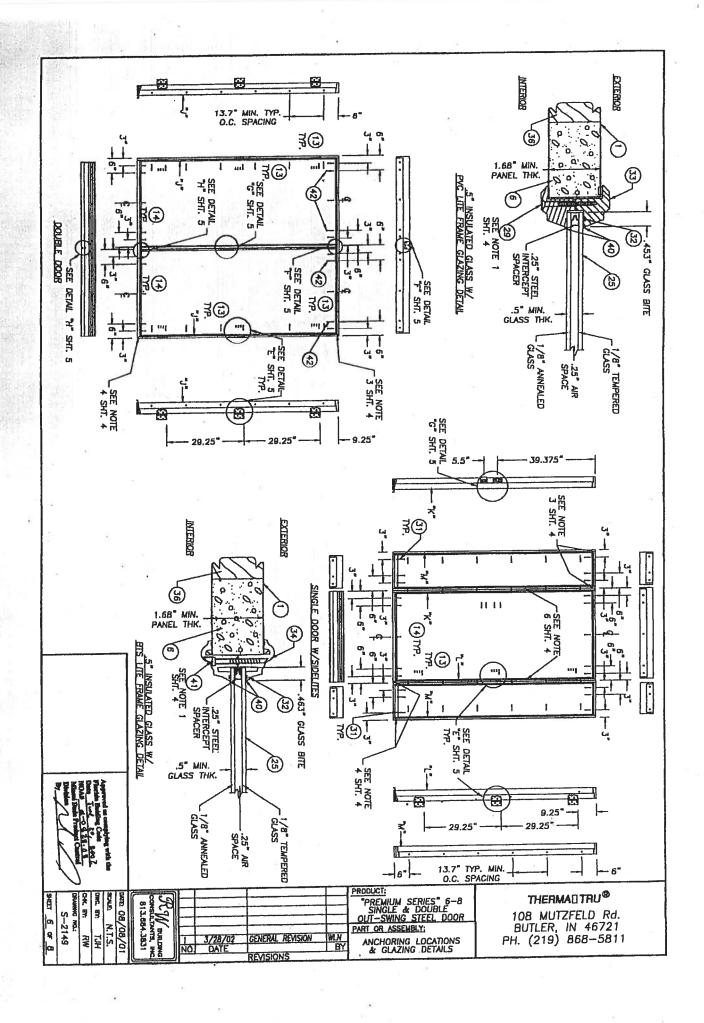


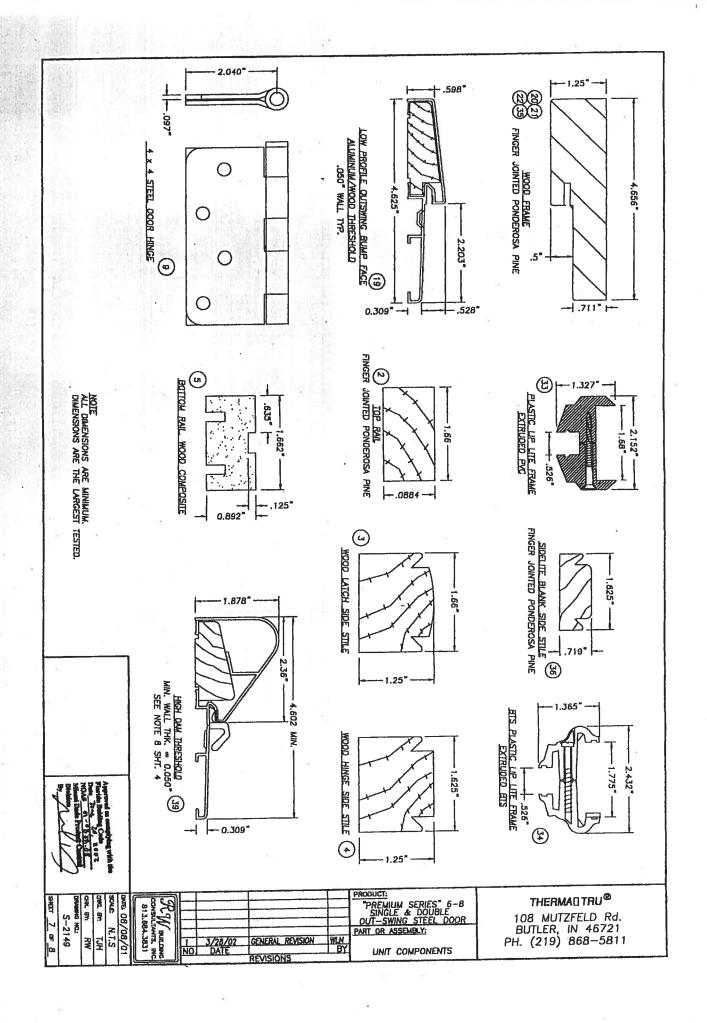


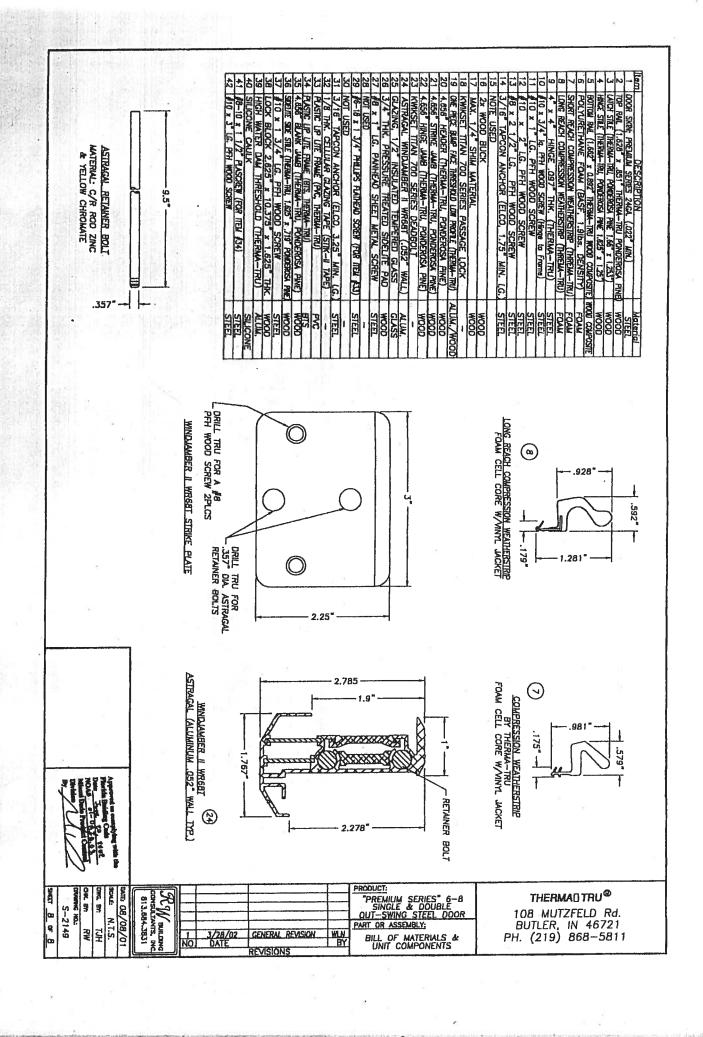












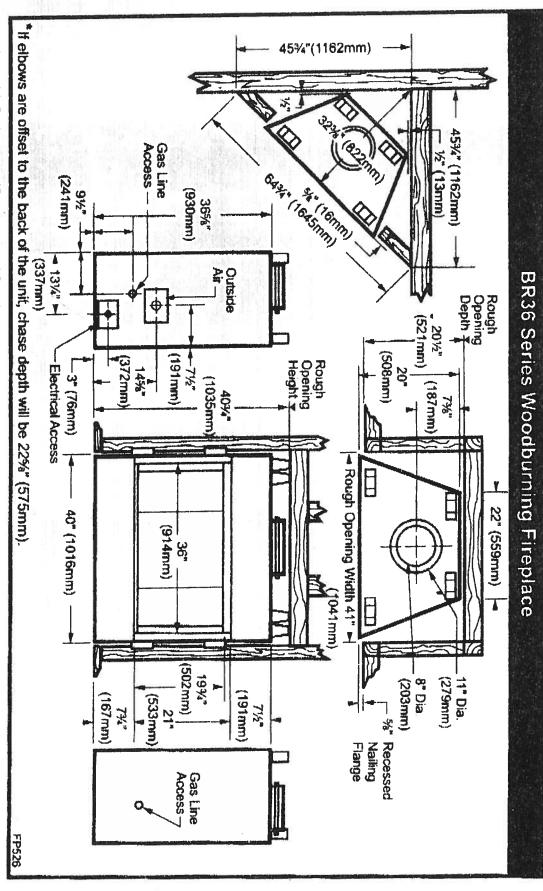


Fig. 1 BR36 Series specifications and framing



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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen / description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

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

Rendered to

MI HOME PRODUCTS, INC. 650 West Market Street P.O. Box 370 Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01

Test Date:

03/07/02

Report Date;

03/26/02

Expiration Date:

03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and the secured with PVC snap-in glazing beads.

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

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01-41134.01 Page 2 of 5

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	·
Balance assembly	2	Active sash, bottom rail ends
Screen plunger	2	4" from rail ends on top rail 110. 1324
		TATE OF

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01-41134.01 Page 3 of 5

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a scalant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	II lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfin/ft ²	0.3 cfm/ft ² max

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

Water Resistance (ASTM E 547-00)
(with and without screen)
WTP = 2.86 psf No leakage No leakage

2.1.4.1 Uniform Load Deflection (ASTM E 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 33 seconds)
@ 25.9 psf (positive) 0.42"* 0.26" max.
@ 34.7 psf (negative) 0.43"* 0.26" max.

Uniform Load Structural (ASTM E 330-97)

(Measurements reported were taken on the meeting rail)

(Loads were held for 10 seconds)

@ 38.9 psf (positive)

@ 52.1 psf (negative)

0.02"

0.18" max.

0.18" max.

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^{*}Exceeds L/175 for deflection, but passes all other test requirements.



01-41134.01 Page 4 of 5

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail Bottom rail	0.12"/25% 0.12"/25%	0.50"/100% 0.50"/100%
	In remaining direction at 50 lbs		
	Left stile Right stile	0.06"/12% 0.06"/12%	0.50"/100% 0.50"/100%
	Forced Entry Resistance (ASTM	F 588-97)	
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5 Test A7	No entry No entry	No entry No entry
	Lock Manipulation Test	No entry	No entry
Optional Perfo	rmance		
4.3	Water Resistance (ASTM E 547-0 (with and without screen)	0)	
	WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM (Measurements reported were taken (Loads were held for 33 seconds)	E 330-97) a on the meeting rail)	
4	@ 45.0 psf (positive) @ 47.2 psf (negative)	0.47"* 0.46"*	0.26" max. 0.26" max.

^{*}Exceeds L/175 for deflection, but passes all other test requirements.

Uniform Load Structural (ASTM E 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 10 seconds)
(@ 67.5 psf (positive)
(@ 70.8 psf (negative)
0.05"

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01-41134.01 Page 5 of 5

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

For ARCHITECTURAL TESTING, INC:

1. 1/

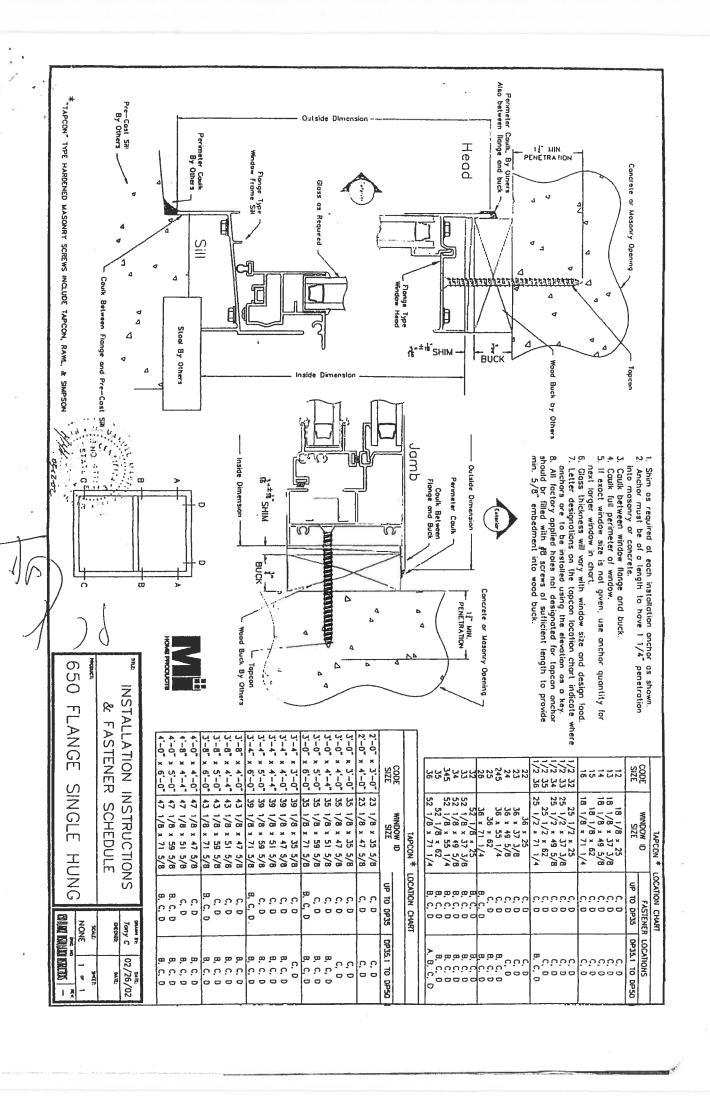
Technician

MAH:nlb 01-41134.01 Allen N. Reeves, P.E.

Director - Engineering Services

1 APRIL ZOOZ







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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650
TYPE: Aluminum Picture Window

Title of Test	Results
Rating	F-R45 60 x 80
Overall Design Pressure	+45.0 psf -47.2 psf
Air Infiltration	0.04 cfm/ft ²
Water Resistance	8.25 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41135.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

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

Rendered to.

MI HOME PRODUCTS, INC. 650 West Market Street P.O. Box 370 Gratz, Pennsylvania 17030-0370

Report No: 01-41135.01

Test Date: 03/07/02

Report Date:

03/26/02

Expiration Date:

03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650, aluminum picture window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a F-R45 60 x 80 rating.

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

Test Specimen Description

Series/Model: 650

Type: Alaminum Picture Window

Overall Size: 5'0" wide by 6'8" high

Daylight Opening Size: 4'9-1/4" wide by 6'5-1/4" high

Finish All aluminum was white,

Glazing Details: The test specimen utilized 7/8" thick, sealed insulating glass constructed from two sheets of 3/16" thick, clear annealed glass and a metal reinforced butyl space. system. The glass was interior glazed against double-sided adhesive foam tape and secured

> 130 Deny Court York, PA 17402-9405 phone: 717.764,7700

fax: 717.764.4129 www.archtest.com



01-41135.01 Page 2 of 3

Test Specimen Description: (Continued)

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss.

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck. #8 x 2-1/2" installation screws were utilized 18" on center around the interior perimeter. Polyurethane was utilized to seal the exterior.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
	Air Infiltration (ASTM E 283-91)		
	@ 1.57 psf (25 mph)	0.04 cfm/ft ²	0.3 cfm/ft ² max.

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

	Water Resistance (ASTM E 5	(47-00)	
	WTP = 2.86 psf	No leakage	No leakage
2.1,4.1	Uniform Load Deflection (AS (Measurements reported were (Loads were held for 33 secon @ 25.9 psf (positive) @ 34.7 psf (negative)	taken on the jamb)	0.41" max. 0.41" max.
2.1,4.2	Uniform Load Structural (AST (Measurements reported were (Loads were held for 10 second @ 38.9 psf (positive) @ 52.1 psf (negative)	taken on the jamb)	0.29" max, 0.29" max,





01-41135.01 Page 3 of 3

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Forced Entry Resistance (ASTM	(F 588-97)	
	Type: D Grade: 10	·	
	Hand and Tool Manipulation Tes	t No entry	No entry
Optional Perf	ormance		
4.3	Water Resistance (ASTM E 547-0 WTP = 8.25 psf	00) No leakuge	No leakage
	Uniform Load Deflection (ASTM (Measurements reported were take (Loads were held for 33 seconds) @ 45.0 psf (positive) @ 47.2 psf (negative)	E 330-97) an on the jamb) 0.02" 0.02"	0.41" max 0.41" max
	Uniform Load Structural (ASTM E (Measurements reported were taker (Loads were held for 10 seconds) @ 67.5 psf (positive) @ 70.8 psf (negative)	330-97) n on the jamb) 0.01" 0.02"	0.29" max 0.29" max

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

For ARCHITECTURAL TESTING, INC.

1. A. Ils

Mark A. Hess Technician

MAH:nlb 01-41135.01 Allen N. Reeves, P.E.

Director - Engineering Services 111 1111

I APRIL ZOOZ

Alachua

FORM 600A-2004

Project Name:

Address:

City, State:

Kasmire Model

, FI

OWNER/AGENT: _____

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Builder:

Permitting Office:

Jurisdiction Number: 111000

Permit Number:

BUILDING OFFICIAL: ____

DATE:

EnergyGauge® (Version: FLRCSB v4.0)

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

Owner: Climate Zone: Central		Junsaicuon Namber.	
New construction or existing	Newle family	12. Cooling systems a. Central Unit	Cap: 42.0 kBtu/hr
2. Single tuning of more territy	1	d. College Carrie	SEER: 12.10
3. Number of units, if multi-family	3	b. N/A	
Number of Bedrooms Is this a worst case?	Yes		()
107	1987 ft ²	c. N/A	morter****
 6. Conditioned floor area (ft²) 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not 			- Constitution
a. U-factor: Description		13. Heating systems	- 10 0 l Dr. (l
(or Single or Double DEFAULT) 7a. (Dble Default)		a. Electric Heat Pump	Cap: 42.0 kBtu/hr
b. SHGC:			HSPF: 8.20
(or Clear or Tint DEFAULT) 7b. (Clear)	226.9 ft ²	b. N/A	_
8. Floor types			
	77.3(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	G 10.0 II
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
	1493.2 ft²		EF: 0.92
	. 285.9 ft ²	b. N/A	
c. N/A			aurit.
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.	1986.8 ft²	15. HVAC credits	·
b. N/A		(CF-Ceiling fan, CV-Cross ventilation.	
c. N/A	may platform	HF-Whole house fan.	
11. Ducts		PT-Programmable Thermostat.	
a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6	.0, 25.0 ft	MZ-C-Multizone cooling.	
b. N/A		MZ-H-Multizone heating)	
Class/Floor Argo: 0.11		points: 24604 points: 28057	
I hereby certify that the plans and specifications countries calculation are in compliance with the Florida Code. PREPARED BY:	overed by Energy	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code.	OF THE STATE OF
DATE: 12/10/05		Before construction is completed	O L
		this building will be inspected for	
I hereby certify that this building, as designed, is in with the Florida Energy Code.	Compilative	compliance with Section 553.908 Florida Statutes.	GOD WE TRUS

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FI,

PERMIT #:

BASE			AS-	BUI	LT				
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area	Type/SC	Ove Ornt	erhang Len	Hgt	Area X	SPM	ı X S	50F =	Points
.18 1987.0 25.78 9220.5	Double, Clear	Ε	2.0	3.7	4.9	55.69		0.71	194.2
.10	Double, Clear	Ε	2.0	5.7	18.9	55.69		0.84	886.5
	Double, Clear	S	8.0	4.7	10.1	41.9		0.51	213.9
	Double, Clear	S	8.0	4.7	10.1	41.9		0.51 0.47	213.9 434.6
	Double, Clear	E	8.5	6.8	16.5 16.5	55.69 55.69		0.47	434.6
	Double, Clear	E	8.5	6.8	60.0	55.6		0.52	1754.0
	Double, Clear	E	8.5	8.3 4.7	10.1	50.2		0.78	398.0
	Double, Clear	W	2.0 6.0	5.7	13.3	50.2		0.53	356.1
	Double, Clear	W	6.0	5.7	13.3	50.2		0.53	356.1
	Double, Clear Double, Clear	W	2.0	6.8	16.5	50.2		0.88	728.3
	Double, Clear	s	2.0	4.7	10.1	41.9		0.73	310.4
	Double, Clear	E	2.0	6.8	16.5	55.6	9	0.88	808.7
	Double, Clear	S	2.0	4.7	10.1	41.9	2	0.73	310.4
	As-Built Total:				226.9				7399.6
WALL TYPES Area X BSPM = Points	Туре		R	l-Valu	е Аге	a X	SPM	1 =	Points
Adjacent 285.9 0.70 200.1	Concrete, Int Insul, Exterior			5.0	1493.2		1.00		1493.2
	Frame, Wood, Adjacent			11.0	285.9		0.70		200.1
Exterior 1493.2 1.90 2837.1 Base Total: 1779.1 3037.2	As-Built Total:				1779.1				1693.3
DOOR TYPES Area X BSPM = Points	Туре				Are	a X	SPN	1 =	Points
Adjacent 20.0 1.60 32.0	Exterior Insulated				20.0		4.80		96.0
Exterior 20.0 4.80 96.0	Adjacent Wood				20.0		2.40		48.0
Base Total: 40.0 128.0	As-Built Total:				40.0				144.0
CEILING TYPES Area X BSPM = Points	Туре		R-Va	lue	Area X	SPM	X S	CM =	Points
Under Attic 1986.8 2.13 4231.9	Under Attic			30.0	1986.8	2.13	X 1.00		4231.9
Base Total: 1986.8 4231.9	As-Built Total:				1986.8				4231.9
FLOOR TYPES Area X BSPM = Points	Туре		F	R-Valu	ie Are	a X	SPI	N =	Points
Slab 177.3(p) -31.8 -5638.1 Raised 0.0 0.00 0.0	Slab-On-Grade Edge Insula	ation		0.0	177.3(p		-31.90		-5655.9
Base Total: -5638.1	As-Built Total:				177.3				-5655.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FI, PERMIT #:

	BASE		AS-BUILT							
INFILTRATION	Area X BSI	PM = Points	s Area X SPM = Po	oints						
	1987.0 14	.31 28434.0	0 1987.0 14.31 28	434.0						
Summer Bas	se Points: 3	9413.4	Summer As-Built Points: 3624	46.9						
Total Summer 2 Points	X System = Multiplier	Cooling Points	Total X Cap X Duct X System X Credit = Coc Component Ratio Multiplier Multiplier Multiplier Poi (System - Points) (DM x DSM x AHU)	oling ints						
39413.4	0.4266	16813.8	(sys 1: Central Unit 42000 btuh ,SEER/EFF(12.1) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 36247							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FI,

PERMIT #:

	BASE					AS-	BUI	LT									
GLASS TYPES .18 X Condition Floor Are		VPM =	Points	Type/SC	Ove Ornt	erhang Len	Hgt	Агеа Х	WPN	1 X	WOF	= Points					
.18 1987.	0	5.86	2095.9	Double, Clear	E	2.0	3.7	4.9	8.82		1.07	46.2					
.10 1907.	.0	5.00	2000.0	Double, Clear	Ε	2.0	5.7	18.9	8.82	!	1.03	172.3					
				Double, Clear	S	8.0	4.7	10.1	6.74		2.18	148.6					
				Double, Clear	S	8.0	4.7	10.1	6.74		2.18	148.6					
				Double, Clear	Ε	8.5	6.8	16.5	8.82		1.21	175.7					
				Double, Clear	E	8.5	6.8	16.5	8.82		1.21	175.7 617.8					
				Double, Clear	Ε	8.5	8.3	60.0	8.82		1.17	99.7					
				Double, Clear	W	2.0	4.7	10.1	9.5		1.03	138.1					
				Double, Clear	W	6.0	5.7	13.3	9.55		1.09	138.1					
				Double, Clear	W	6.0	5.7	13.3	9.58 9.58		1.09 1.02	160.2					
				Double, Clear	W	2.0	6.8	16.5 10.1	6.74		1.22	82.9					
				Double, Clear	S	2.0	4.7 6.8	16.5	8.82		1.03	149.3					
				Double, Clear	E S	2.0 2.0	4.7	10.3	6.74		1.22	82.9					
				Double, Clear	5	2.0	4.7	10.1	0.7	•							
				As-Built Total:				226.9				2336.1					
WALL TYPES	Area X	BWPM	= Points	Туре		R	-Value	e Area	a X	WPN	/1 =	Points					
Adjacent	285.9	1.80	514.6	Concrete, Int Insul, Exterior			5.0	1493.2		2.90		4330.3					
Exterior	1493.2	2.00	2986.4	Frame, Wood, Adjacent			11.0	285.9		1.80		514.6					
Base Total:	1779.1		3501.0	As-Built Total:				1779.1				4844.9					
DOOR TYPES	Area X	BWPM	= Points	Туре				Агеа	X	WPI	/1 =	Points					
Adjacent	20.0	4.00	80.0	Exterior Insulated				20.0		5.10		102.0					
Exterior	20.0	5.10	102.0	Adjacent Wood				20.0		5.90		118.0					
Base Total:	40.0		182.0	As-Built Total:				40.0				220.0					
CEILING TYPE	S Area X	BWPM	= Points	Туре		R-Valu	ie A	rea X V	VPM 2	x W	CM =	Points					
Under Attic	1986.8	0.64	1271.6	Under Attic			30.0	1986.8	0.64 X	1.00		1271.6					
Base Total:	1986.8		1271.6	As-Built Total:				1986.8				1271.6					
FLOOR TYPES	Area X	BWPM	= Points	Туре		F	₹-Valu	e Are	аХ	WPI	M =	Points					
Slab Raised	177.3(p) 0.0	-1.9 0.00	-336.9 0.0	Slab-On-Grade Edge Insula	ation		0.0	177.3(p		2.50		443.3					
Base Total:			-336.9	As-Built Total:				177.3	restriction -			443,3					

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESON FI	PERMIT #:
ADDRESS: , , FI,	I mad VIVII to II .
• • •	

BASE	AS-BUILT								
INFILTRATION Area X BWPM = Poin	s Area X WPM = Points								
1987.0 -0.28 -556	4 1987.0 -0.28 -556.4								
Winter Base Points: 6157.	Winter As-Built Points: 8559.4								
Total Winter X System = Heating Points Multiplier Points	Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)								
6157.2 0.6274 3863.	(sys 1: Electric Heat Pump 42000 btuh ,EFF(8.2) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 8559.4 1.000 (1.078 x 1.160 x 1.00) 0.416 1.000 4455.0 8559.4 1.00 1.250 0.416 1.000 4455.0								

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , FI, PERMIT #:

BASE						AS-BUILT								
WATER HEATING Number of X Multiplier = Total Bedrooms					Tank Volume	EF	Number of Bedrooms	Х	Tank X Ratio	Multiplier	X Credit Multiplie			
3	2460.00 7380.0 40.0 0.92		0.92	3		1.00	2460.00	1.00	7380.0					
					As-Built Total:						7380.0			

	CODE COMPLIANCE STATUS											
	BASE						AS-BUILT					
Cooling + Points	Heating Points	+ Hot Water Points	=	Total Points	Cooling Points	+	Heating + Points	Hot Water Points	=	Total Points		
16814	3863	7380		28057	12769		4455	7380		24604		

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , FI,	PERMIT #:
ADDRESS.,, FI,	

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.	
7,0010		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 regts	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* = 85.7

The higher the score, the more efficient the home.

1.	New construction or existing	New	1	2. Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 42.0 kBtu/hr
3.	Number of units, if multi-family	1	-		SEER: 12.10
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1987 ft²	-	c. N/A	
7.	Glass type 1 and area: (Label regd. by		1000		
	U-factor:	Description Area	1	3. Heating systems	
	(or Single or Double DEFAULT) 7a.			a. Electric Heat Pump	Cap: 42.0 kBtu/hr
b	. SHGC:	(2010 2011011) 22015 21		-	HSPF: 8.20
	(or Clear or Tint DEFAULT) 7b	(Clear) 226.9 ft ²		b. N/A	-
8.	Floor types	(,			
	Slab-On-Grade Edge Insulation	R=0.0, 177.3(p) ft		c. N/A	
ь	. N/A				_
c	. N/A		1	4. Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
a	Concrete, Int Insul, Exterior	R=5.0, 1493.2 ft ²			EF: 0.92
b	. Frame, Wood, Adjacent	R=11.0, 285.9 ft ²	-	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, 1986.8 ft ²	1	5. HVAC credits	-
b	. N/A			(CF-Ceiling fan, CV-Cross ventilation.	
c	N/A			HF-Whole house fan.	
Н.	Ducts			PT-Programmable Thermostat.	
a	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 25.0 ft	_	MZ-C-Multizone cooling.	
b	. N/A		-	MZ-H-Multizone heating)	

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 TMdesignation), 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. EnergyGauge® (Version: FLRCSB v4.0)



DUCT SYSTEM SUMMARY Entire House

New Age Dimensions

Job: Kasmire Model 12/09/05

17600 S.E. 28th Court, Summerfield, FL 34491-7571 Phone: (352) 307-0692 Fax: (352) 307-9149 Email: www.NewAgeDimension@aol.com

Project Information

For:

Browning Heating & A/C, LLC

Gainesville, FL 32602 Phone: (352) 258-3427

External Static Pressure:
Pressure Losses:
Available Static Pressure:
Eriction Rate:

Friction Rate: Actual AVF: HEATING COOLING

0.55 in H2O 0.55 in H2O

0.12 in H2O 0.12 in H2O

0.43 in H2O 0.43 in H2O

0.880 in/100ft 0.880 in/100ft

1400 cfm 1400 cfm

0 ft

Total Effective Length (TEL):

Supply Branch Detail Table

Name	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)		Duct Matl	Trnk
Master WIC	1156	477	41	23	0.880	469	4	0x	0	VIFx	st1
Laundry Room	1778	2370	63	114	0.880	581	6	0x	0	VIFx	st1
Master Toilet	292	101	10	5	0.880	118	4	0x	0	VIFx	st1
Master Bathroom	2768	1268	98	61	0.880	498	6	0x	0	VIFx	st1
Master Bedroom-A	2754	2292	97	110	0.880	562	6	0x	0		st1
Master Bedroom	2754	2292	97	110	0.880	562	6	0x	0	VIFx	st1
Dining Room	4101	2234	145	108	0.880	543	7	0x	0	1	st2
Great Room-A	3253	2176	115	105	0.880	586	6	0x	0	VIFx	st2
Great Room	3253	2176	115	105	0.880	586	6	0x	0		st2
Kitchen/Nook-A	2679	2494	95	120	0.880	612	6	0x	0	1	st2
Kitchen/Nook	2679	2494	95	120	0.880	612	6	0x	0	VIFx	st2
Foyer	2063	984	73	47	0.880	535	5	0x	0	VIFx	st2
Bedroom #2	4732	3726	167	179	0.880	671	7	0x	0	VIFx	st2
Hall Bathroom	599	258	21	12	0.880	243	4	0x	0	VIFx	st2
Bedroom #3	4732	3726	167	179	0.880	671	7	0x	0	VIFx	st2

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Vel (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1 st2 st	Peak AVF Peak AVF Peak AVF	407 993 1400	424 976 1400	636 639 700	10 16 18	16 x 6 16 x 14 16 x/518	ShtMetl ShtMetl ShtMetl	st st

Return Branch Detail Table

Name	Diffus Sz (in)	Design AVF (cfm)	Design (in H2O)	Design FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1 rb2	20 x2534 16 x/617		0.00 0.00	0.880 0.880	562 540	18 12	0 x 0 0 x 0		VIFx VIFx	ra ra

Return Trunk Detail Table

Na	ame	Trunk Type	Htg (cfm)	Clg (cfm)	Vel (fpm)	Diam (in)	Rect Duct Sz (in)	Duct Material	Trunk
ra		Peak AVF	1400	1400	560	20	18 x/320	RectFbg	



RIGHT-J SHORT FORM Entire House

New Age Dimensions

Job: Kasmire Model 12/09/05

17600 S.E. 28th Court, Summerfield, FL 34491-7571 Phone: (352) 307-0692 Fax: (352) 307-9149 Email: www.NewAgeDimension@aol.com

Project Information

For:

Browning Heating & A/C, LLC

Gainesville, FL 32602 Phone: (352) 258-3427

Design Information					
	Htg	Clg		Infiltration	
Outside db (°F)	33	94	Method	Simplified	
Inside db (°F)	70	75	Construction quality	Average	
Design TD (°F)	37	19	Fireplaces	0	
Daily range	-	M	-		
Inside humidity (%)	2	50			
Moisture difference (gr/lb)	-	48			

HEATING EQUIPMENT

COOLING EQUIPMENT

Make Tempstar		Make Temp	ostar
Trade SmartComf	ort 2200	Trade Smar	rtComfort 2200
TCH242AKA*		TCH242AKA*	
		FCX48****	
Efficiency	8.2 HSPF	Efficiency	12.1 SEER
Heating input	J	Sensible cooling	30034

30034 Btuh Heating input 42000 Btuh @ 47°F 12872 Btuh Heating output Latent cooling 27 °F 42905 Btuh Total cooling Heating temperature rise Actual cooling fan 1400 cfm 1400 cfm Actual heating fan 0.048 cfm/Btuh Heating air flow factor 0.035 cfm/Btuh Cooling air flow factor

72 % Space thermostat Load sensible heat ratio

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master WIC	89	1156	477	41	23
Laundry Room	94	1778	2370	63	114
Master Toilet	21	292	101	10	5
Master Bathroom	138	2768	1268	98	61
Master Bedroom	315	5509	4585	195	221
Dining Room	196	4101	2234	145	108
Great Room	280	6506	4352	230	210
Kitchen/Nook	320	5358	4988	189	240
Foyer	77	2063	984	73	47
Bedroom #2	186	4732	3726	167	179
Hall Bathroom	85	599	258	21	12
Bedroom #3	186	4732	3726	167	179

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

Entire House Ventilation air Equip. @ 0.99 RSM Latent cooling	d 1987	39593 0	29069 0 28778 11262	1400	1400
TOTALS	1987	39593	40040	1400	1400

RESIDENTIAL WIND DESIGN & ANALYSIS NO COPIES ARE TO BE PERMITTED\FBC2004				
PREPARED FOR:				
COOPER ENTERPRISES \ LOT 36 THREE RIVERS ESTATES				

PREPARED BY:

MARTY R. ESKRIDGE 14952 MAIN ST ALACHUA FL 32615 386-462-1340 / 352-375-6329

MARTY R. ESKRIDGE & ASSOCIATES

14952 MAIN ST ALACHUA FL 32615 PH: 386-462-1340

December 1, 2005

SUMMARY: Wind Load Analysis for Lot 36 \ 3 rivers estates

Wind Speed: 110 M.P.H. \ No Copies Permitted \ Florida Building Code 2004

Foundation:

20" wide x 12" deep stemwall footing with (2) #5 rebar continuous minimum. CMU walls must have #5 dowels at 60" o.c. with a standard 90 degree ACI hook in footing and a 4" slab on grade. Monolithic slab to be 12" wide x 20" deep minimum with (2) #5 rebar continuous with 12" minimum coverage on face of foundation. It is assumed that ideal soil conditions and pad preparation are provided.

Walls:

8" CMU block with vertical #5 reinforcing bar in grout filled cell at 60" o.c. maximum spacing. Wall heights are 9' nominal. Provide an 8" x 8" bond beam with 1-#5 rebar horizontal continuous at the top course. Install pre-cast, pre-engineered lintels or pre-engineered steel lintels spanning over all openings. One #5 rebar each corner. One #5 rebar each side of door and window openings. Two #5 rebar in openings wider than 12'-0". One #5 rebar where girders or girder trusses bear on masonry wall.

Shearwalls:

Transverse: 73'-0" Longitudinal: 54'-0"

Trusses:

Pre-engineered Pre-fabricated with the bracing system designed by the manufacturer. Trusses must be anchored according to the truss engineering. Trusses must bear on all exterior walls and then porch headers.

Roof Sheathing:

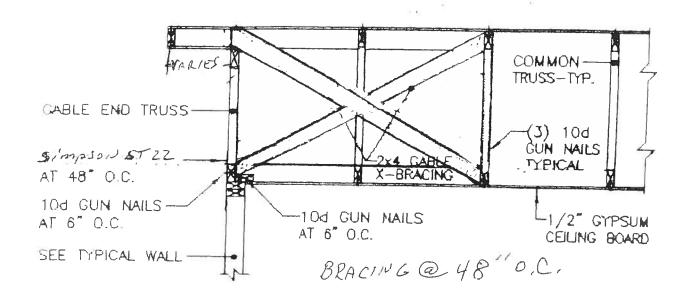
5/8" cdx minimum attached to the top chords of the trusses with 8d/131 gauge nails spaced at 4" o.c. edges and 8" interior.

Columns:

4 x 4 x 9' syp pt @ 120" o.c. \ Simpson ABU44 \ CC44 or equal

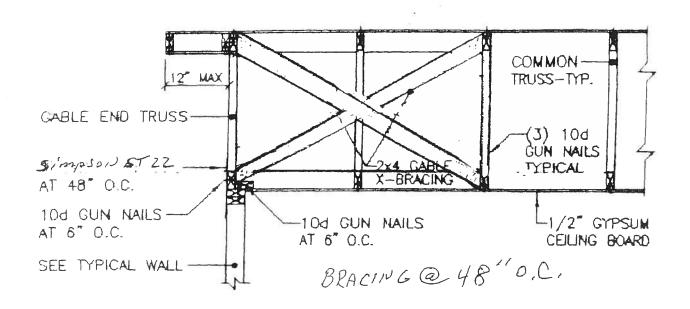
Paul R. Stresing, Arch.

AR0013985



GABLE END DETAIL

SCALE: NTS



GABLE END DETAIL

SCALE: NTS

Wind Load Design per ASCE 7-98

User Input Data					
Structure Type	Building				
Basic Wind Speed (V)	110	mph			
Structural Category	II.				
Exposure	В				
Struc Nat Frequency (n1)	1	Hz			
Slope of Roof (Theta)	26.6	Deg			
Type of Roof	Hipped				
Eave Height (Eht)	9.00	ft			
Ridge Height (RHt)	22.97	ft			
Mean Roof Height (Ht)	15.62	ft			
Width Perp. to Wind (B)	52.67	ft			
Width Parallel to Wind (L)	67.33	ft			
Damping Ratio (beta)	0.01				

Red values	should be	changed	only through	"Main Menu"

Calculated Parameters	S			
Type of Structure				
Height/Least Horizontal Dim	0.30			
Flexible Structure	No			

Calculated Parameters					
Importance Factor	1				
Hurricane Prone Re	gion (V>100 m	ph)			
Table C6-	4 Values				
Alpha =	7.000				
zg =	1200.000				
At = Bt = Am =	0.143 0.840 0.250				
Bm =	0.250				
Cc =	0.300				
I =	320.00	ft			
Epsilon =	0.333				
Zmin =	30.00	ft			

	Gust Factor Category I: Rigid Structures - Simplified Method						
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85					
	Gust Factor Category II: Rigid Structures - Complete Analysis						
Zm	Zmin	30.00	ft				
lzm	Cc * (33/z)^0.167	0.3048					
Lzm	I*(zm/33)^Epsilon	309.99	ft				
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8970					
Gust2	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	0.8642					
	Gust Factor Category III: Flexible or Dynamically Sensitive Structu	ıres					
Vhref	V*(5280/3600)	161.33	ft/s				
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s				
NF1	NatFreq*Lzm/Vzm	4.37	Hz				
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552					
Nh	4.6*NatFreq*Ht/Vzm	1.01					
Nb	4.6*NatFreq*B/Vzm	3.42					
Nd	15.4*NatFreq*Depth/Vzm	14.63					
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5640					
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.2498					
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0660					
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.6605					
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19					
Gust3	0.925*((1+1.7*lzm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*lzm))	1.05					

Gust Factor Summary				
Main Wind-force resisting system: Components and Cladding:				
Gust Factor Category:	Ī	Gust Factor Category:	1	
Gust Factor (G)	0.86	Gust Factor (G)	0.86	

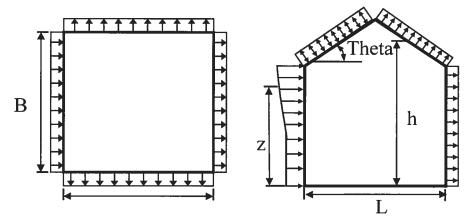
Wind Load Design per ASCE 7-98

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windwa	rd Wall*
ft			1.00	lb/ft^2	+GCpi	-GCpi
22.97	0.70	1.00	1.00	21.70	11.76	18.25
20	0.70	1.00	1.00	21.70	11.76	18.25
15.62	0.70	1.00	1.00	21.70	11.76	18.25
15	0.70	1.00	1.00	21.70	11.76	18.25

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.58	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	18.01	psf

Wall Pressure Coefficients, Cp				
Surface	Ср			
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80			

Roof Pressure Coefficients, Cp				
Roof Area (sq. ft.)	-			
Reduction Factor	1.00			

Description	Ср	Pressure	(psf)
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 52.67 ft wall)	-0.44	-10.16	-3.67
Leeward Walls (Wind Dir Parallel to 67.33 ft wall)	-0.50	-11.02	-4.54
Side Walls	-0.70	-14.14	-7.65
Roof - Normal to Ridge (Ti			
Windward - Max Negative	-0.20	-6.35	0.13
Windward - Max Positive	0.30	1.43	7.91
Leeward Normal to Ridge	-0.60	-12.58	- 6.10
Overhang Top	-0.20	-3.11	-3.11
Overhang Bottom	0.80	0.69	0.69
Roof - Parallel to Ridge (A	All Theta)		
Dist from Windward Edge: 0 ft to 7.81 ft	-0.90	-17.25	-10.77

Wind Load Design per ASCE 7-98

Dist from Windward Edge: 7.81 ft to 15.62 ft	-0.90	-17.25	-10.77
Dist from Windward Edge: 15.62 ft to 31.24 ft	-0.50	-11.02	-4.54
Dist from Windward Edge: > 31.24 ft	-0.30	-7.91	-1.43

^{*} Horizontal distance from windward edge

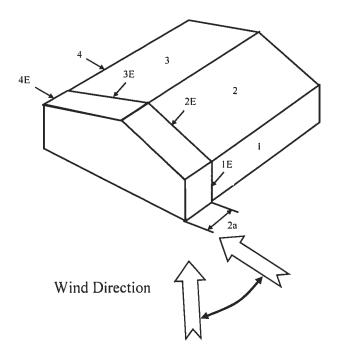
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.58
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.01

	Case A						
Surface	GCpf	+GCpi	-GCpi	qh	Min P	Max P	
				(psf)	(psf)	(psf)	
1	0.55	0.18	-0.18	21.70	8.03	15.84	
2	-0.10	0.18	-0.18	21.70	-5.99	1.82	
3	-0.45	0.18	-0.18	21.70	-13.61	-5.79	
4	-0.39	0.18	-0.18	21.70	-12.38	-4.57	
5	0.00	0.18	-0.18	21.70	-3.91	3.91	
6	0.00	0.18	-0.18	21.70	-3.91	3.91	
1E	0.73	0.18	-0.18	21.70	11.88	19.69	
2E	-0.19	0.18	-0.18	21.70	-7.93	-0.12	
3E	-0.58	0.18	-0.18	21.70	-16.59	-8.78	
4E	-0.53	0.18	-0.18	21.70	-15.50	-7.69	
5E	0.00	0.18	-0.18	21.70	-3.91	3.91	
6E	0.00	0.18	-0.18	21.70	-3.91	3.91	

^{*} p = qh * (GCpf - GCpi)



Wind Load Design per ASCE 7-98

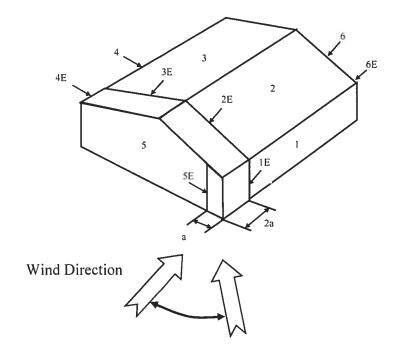
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.58
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.01

	Case B						
Surface	GCpf	+GCpi	-GCpi	qh	Min P	Max P	
				(psf)	(psf)	(psf)	
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86	
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07	
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12	
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86	
5	0.40	0.18	-0.18	21.70	4.77	12.59	
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39	
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51	
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31	
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60	
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51	
5E	0.61	0.18	-0.18	21.70	9.33	17.14	
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43	

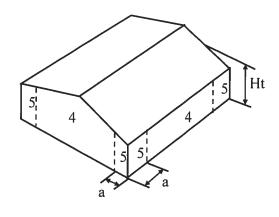
^{*} p = qh * (GCpf - GCpi)

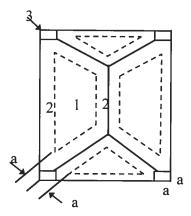


Wind Load Design per ASCE 7-98

Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





Hipped Roof 10 < Theta <= 30

a = 5.267

==>

5.27 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp		Wind Press (lb/ft^2)	
					Max	Min	Max	Min
	16	7	112.00	5	0.81	-1.03	17.91	-21.78
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

Wind Load Design per ASCE 7-98

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	0.18	-0.18

Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

r (Rise-to-Span Ratio) = 0.3

		Ср			
Condition	Variable	Windward Quarter	Center Half	Leeward Quarter	
Roof on Elevated Structure	Ср	0.13	-1	-0.5	
	P (+GCpi) - psf	-1.30	-18.81	-11.02	
	P (-GCpi) -psf	5.19	-12.32	-4.54	
Roof Springing from Ground	Ср	0.42	-1	-0.5	
3 0	P (+GCpi) - psf	3.30	-18.81	-11.02	
-	P (-GCpi) -psf	3.30	-18.81	-11.02	

Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
	Roof dimension normal to wind direction	67.33	ft
В	Roof dimension parallel to wind direction	52.67	ft
L/B	Ratio of L to B	1.278	
Theta	Slope of Roof	26.6	Deg
Cf	Force Coefficient	1.15	
X	Distance to center of pressure from windward edge	0.40	ft



13618 NW 270th Ave. Alachua, FL 32615 (386) 418-4387

24035

CERTIFICATE OF COMPLIANCE FOR TERMITE PROTECTION

(As required by Florida Building Code (FBC) 1816.1.7)

Address of treatment or lot/block of treatment: 559 SW California Terr. Ft White, FL 32038

Describe method of termite prevention treatment:

Trench & Treat around structure

The building has received a complete treatment for the prevention of subterranean termites. Treatment is in accordance with rules and laws, established by the Florida Department of Agriculture and Consumer Services.

Authorized Signature



OGGUPANGY

COLUMBIA COUNTY, FLORIDA

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 36-6S-15-00909-036

Fire: 17.76

Building permit No. 000024035

Use Classification SFD,UTILITY

Permit Holder MICHAEL COOPER

Waste: 36.75

Owner of Building JOHN & PAMELA CURTIS

Total: 54.51



Location: 559 SW CALIFORNIA TERRACE

Date: 07/03/2006

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)