

# Residential System Sizing Calculation

## Summary

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

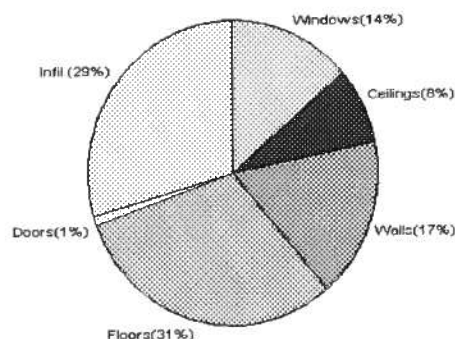
11/1/2006

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
<b>Total heating load calculation</b>	<b>24355 Btuh</b>	<b>Total cooling load calculation</b>	<b>17220 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.0 28000	Sensible (SHR = 0.75)	165.7 21000
Heat Pump + Auxiliary(0.0kW)	115.0 28000	Latent	154.0 7000
		Total (Electric Heat Pump)	162.6 28000

## WINTER CALCULATIONS

Winter Heating Load (for 1634 sqft)

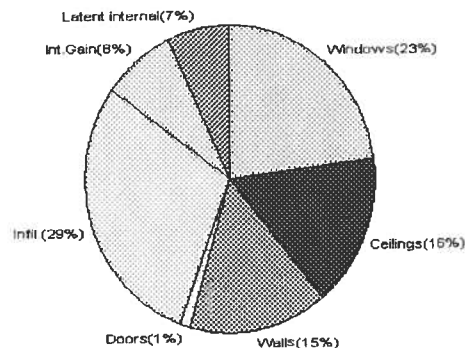
Load component	Load
Window total 105 sqft	3380 Btuh
Wall total 1271 sqft	4174 Btuh
Door total 20 sqft	259 Btuh
Ceiling total 1674 sqft	1973 Btuh
Floor total 172 sqft	7510 Btuh
Infiltration 174 cfm	7060 Btuh
Duct loss	0 Btuh
<b>Subtotal</b>	<b>24355 Btuh</b>
Ventilation 0 cfm	0 Btuh
<b>TOTAL HEAT LOSS</b>	<b>24355 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1634 sqft)

Load component	Load
Window total 105 sqft	3973 Btuh
Wall total 1271 sqft	2651 Btuh
Door total 20 sqft	196 Btuh
Ceiling total 1674 sqft	2772 Btuh
Floor total	0 Btuh
Infiltration 92 cfm	1703 Btuh
Internal gain	1380 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
<b>Total sensible gain</b>	<b>12676 Btuh</b>
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	3344 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1200 Btuh
<b>Total latent gain</b>	<b>4544 Btuh</b>
<b>TOTAL HEAT GAIN</b>	<b>17220 Btuh</b>



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 11-1-06

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

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

11/1/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
3	2, Clear, Metal, 0.87	SE	45.0		32.2	1449 Btuh
4	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
	Window Total		105(sqft)			3380 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1271		3.3	4174 Btuh
	Wall Total		1271			4174 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
	Door Total		20			259Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1674		1.2	1973 Btuh
	Ceiling Total		1674			1973Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	172.0	ft(p)	43.7	7510 Btuh
	Floor Total		172			7510 Btuh
	Zone Envelope Subtotal:					17295 Btuh
Infiltration	Type	ACH	Zone Volume	CFM=		
	Natural	0.80	13072	174.3		7060 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					24355 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	24355 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24355 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(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 )



For Florida residences only

# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/1/2006

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
3	2, Clear, Metal, 0.87	SE	45.0		32.2	1449 Btuh
4	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
Window Total			105(sqft)			3380 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1271		3.3	4174 Btuh
Wall Total			1271			4174 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
Door Total			20			259Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1674		1.2	1973 Btuh
Ceiling Total			1674			1973Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	172.0 ft(p)		43.7	7510 Btuh
Floor Total			172			7510 Btuh
Zone Envelope Subtotal:						17295 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	13072	174.3		7060 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					24355 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	24355 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24355 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

11/1/2000



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(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 )

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# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/1/2006

### Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	22ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	29	60	901	Btuh
3	2, Clear, 0.87, None,N,N	SE	8ft.	5.5ft.	45.0	45.0	0.0	29	63	1303	Btuh
4	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	30.0	30.0	0.0	29	63	869	Btuh
	Window Total				105 (sqft)					3973 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	13.0/0.09		1271.0		2.1		2651 Btuh			
	Wall Total				1271 (sqft)				2651 Btuh		
Doors	Type			Area (sqft)		HTM		Load			
1	Insulated - Exterior			20.0		9.8		196 Btuh			
	Door Total				20 (sqft)				196 Btuh		
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle	30.0		1674.0		1.7		2772 Btuh			
	Ceiling Total				1674 (sqft)				2772 Btuh		
Floors	Type	R-Value		Size		HTM		Load			
1	Slab On Grade	0.0		172 (ft(p))		0.0		0 Btuh			
	Floor Total				172.0 (sqft)				0 Btuh		
	Zone Envelope Subtotal:									9593 Btuh	
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.42		13072		91.5		1703 Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	6		X 230 +		0		1380 Btuh				
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12676 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

11/1/2006

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>12676 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>12676 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>12676 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	3344 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>4544 Btuh</b>
	<b>TOTAL GAIN</b>	<b>17220 Btuh</b>

\*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)



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# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

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, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/1/2006

### Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	22ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	29	60	901	Btuh
3	2, Clear, 0.87, None,N,N	SE	8ft.	5.5ft.	45.0	45.0	0.0	29	63	1303	Btuh
4	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	30.0	30.0	0.0	29	63	869	Btuh
Window Total					105 (sqft)					3973 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		1271.0			2.1		2651 Btuh		
Wall Total				1271 (sqft)					2651 Btuh		
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total				20 (sqft)					196 Btuh		
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0		1674.0			1.7		2772 Btuh		
Ceiling Total				1674 (sqft)					2772 Btuh		
Floors	Type	R-Value		Size			HTM		Load		
1	Slab On Grade	0.0		172 (ft(p))			0.0		0 Btuh		
Floor Total				172.0 (sqft)					0 Btuh		
	Zone Envelope Subtotal:									9593 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural	0.42		13072			91.5		1703 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	6		X 230 +			0		1380 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									12676 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

Class 3 Rating  
Registration No. 0  
Climate: North

11/1/2006

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>12676 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>12676 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>12676 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	3344 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>4544 Btuh</b>
	<b>TOTAL GAIN</b>	<b>17220 Btuh</b>

\*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)



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# Residential Window Diversity

## MidSummer

Mark & Marilyn Hunter  
Sun Valley Road  
, FL

Project Title:  
610056HunterMark&Marilyn

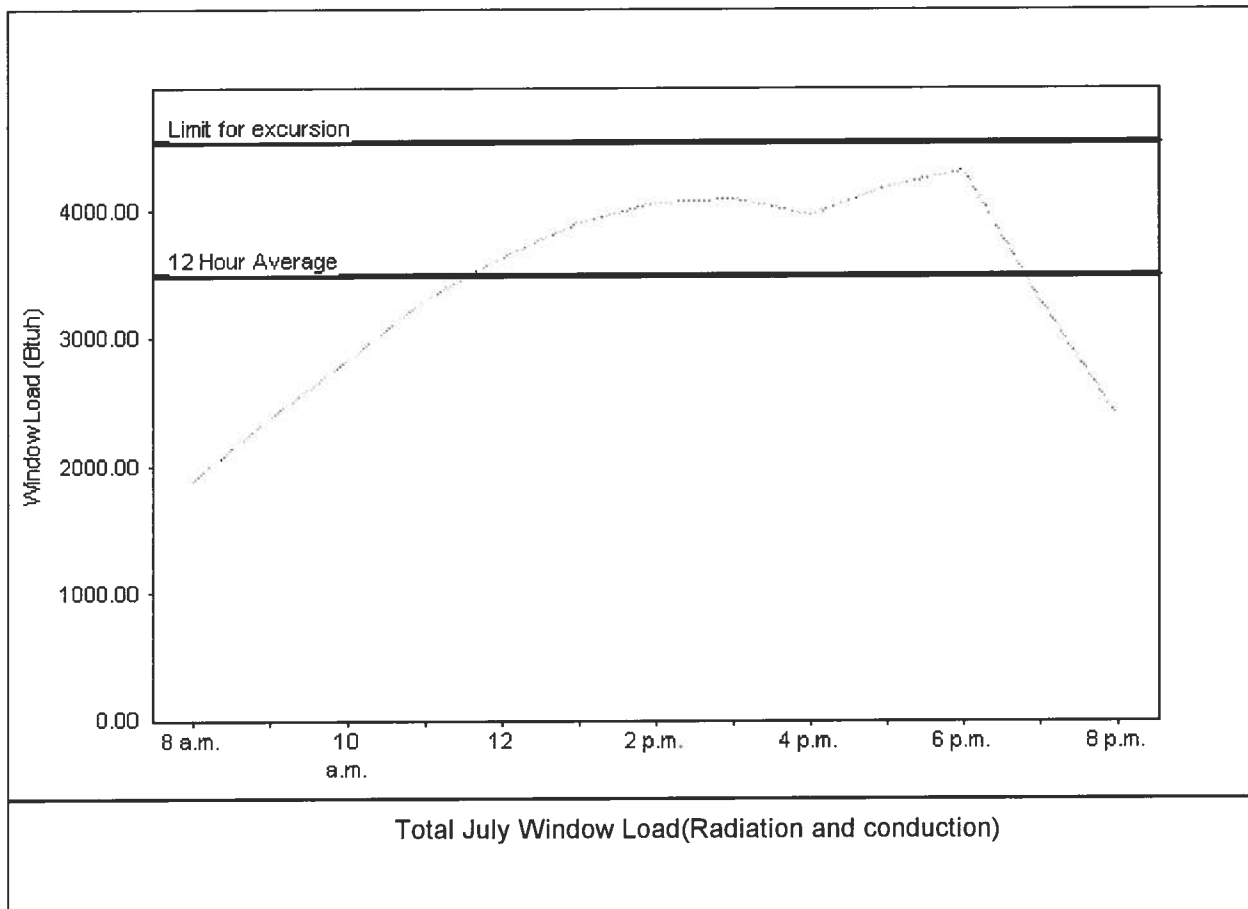
Class 3 Rating  
Registration No. 0  
Climate: North

11/1/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	3487 Btuh
Summer setpoint	75 F	Peak window load for July	4309 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	4533 Btuh
Latitude	29 North	Window excursion (July)	None

## WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit.  
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *11-1-06*

EnergyGauge® FLR2PB v4.1



Davey Edgely

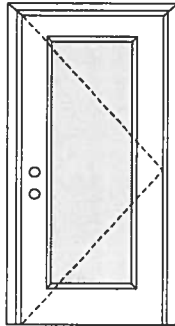
**X**

Glazed Inswing Unit

COP-WL-JH4141-02

## WOOD-EDGE STEEL DOORS

### APPROVED ARRANGEMENT:



**Note:**

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website ([www.etssemko.com](http://www.etssemko.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Single Door**

Maximum unit size = 3'0" x 6'8"

**Design Pressure**

**+40.5/-40.5**

Limited water unless special threshold design is used.

**Large Missile Impact Resistance**

**Hurricane protective system (shutters) is REQUIRED.**

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

### MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02 and MAD-WL-MA0041-02.

### MINIMUM INSTALLATION DETAIL:

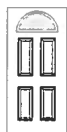
Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

### APPROVED DOOR STYLES:

#### 1/4 GLASS:



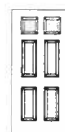
100 Series



133, 135 Series



136 Series

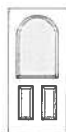


680 Series

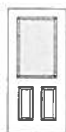


822 Series

#### 1/2 GLASS:



105 Series\*



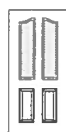
106, 160 Series\*



129 Series\*



200 Series\*



12 R/L, 23 R/L, 24 R/L Series\*



107 Series\*



108 Series



304 Series

\*This glass kit may also be used in the following door styles: 5-panel, 5-panel with scroll, Eyebrow 5-panel, Eyebrow 5-panel with scroll.

1

**Johnson**  
**EntrySystems**

June 17, 2002  
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from  
**Masonite**  
Masonite International Corporation

**X**

Glazed Inswing Unit

COP-WL-JH4141-02

**WOOD-EDGE STEEL DOORS****APPROVED DOOR STYLES:****3/4 GLASS:**

404 Series



410 Series



450 Series

**FULL GLASS:**

109 Series

114, 120, 122  
Series

152 Series



149 Series



300 Series

**CERTIFIED TEST REPORTS:**

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

**PRODUCT COMPLIANCE LABELING:**

TESTED IN  
ACCORDANCE WITH  
MIAMI-DADE BCCO PA202

COMPANY NAME  
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer  
Kurt Balthazor, P.E. – License Number 56533



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website ([www.itsmko.com](http://www.itsmko.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Johnson**  
**EntrySystems**

June 17, 2002

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**Masonite**  
Masonite International Corporation

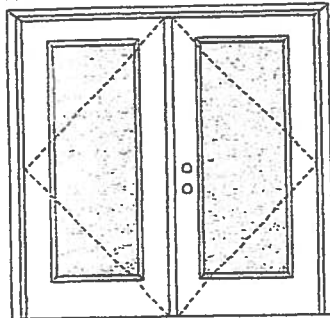
**XX**

Glazed Inswing Unit

COP-WL-JH4142-02

## WOOD-EDGE STEEL DOORS

### APPROVED ARRANGEMENT:



Test Data Review Certificate #3026447A  
and COP/Test Report Validation Matrix  
#3026447A-001 provides additional  
information - available from the ITS/WH  
website ([www.itswh.com](http://www.itswh.com)), the  
Masonite website ([www.masonite.com](http://www.masonite.com))  
or the Masonite technical center.

**Note:**  
Units of other sizes are covered by this  
report as long as the panels used do not  
exceed 3'0" x 6'8".

Double Door  
Maximum unit size = 6'0" x 6'8"

Design Pressure  
**+40.5/-40.5**  
Limited water unless special threshold design is used.

**Large Missile Impact Resistance**  
**Hurricane protective system (shutters) is REQUIRED.**

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national,  
state or local building codes specify the edition required.

### MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0002-02 and  
MAD-WL-MA0041-02.

### MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0002-02.

### APPROVED DOOR STYLES:

#### 1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series



822 Series

#### 1/2 GLASS:



105 Series\*



106, 160 Series\*



129 Series\*



200 Series\*



12 R/L, 23 R/L, 24 R/L  
Series\*



107 Series\*



108 Series\*



304 Series\*

\*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

**Johnson**



Exclusively from

ALUMINUM DOOR SYSTEM

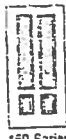
**3/4 GLASS:**



404 Series



410 Series



450 Series

**FULL GLASS:**



109 Series



114, 120, 122 Series



152 Series



149 Series



300 Series

**CERTIFIED TEST REPORTS:**

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

**PRODUCT COMPLIANCE LABELING:**

TESTED IN  
ACCORDANCE WITH  
MIAMI-DADE BCCO PA202

COMPANY NAME  
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

*Kurt L Balthaz*

State of Florida, Professional Engineer  
Kurt Balthazor, P.E. – License Number 56533

Warrick Hersey



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website ([www.itswh.com](http://www.itswh.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

2

**Johnson**  
**EntrySystems**

June 17, 2002  
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

**PREMIER Collection**  
Premium Quality Doors



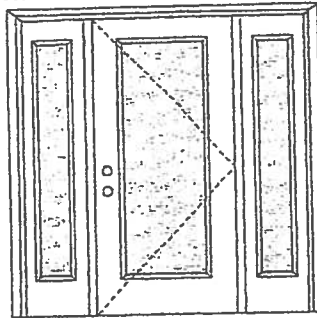
Exclusively from

**Masonite®**

Masonite International Corporation

# WOOD-EDGE STEEL DOORS

## APPROVED ARRANGEMENT:



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website ([www.itswh.com](http://www.itswh.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Note:**  
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Single Door with 2 Sidelites  
Maximum unit size = 9'0" x 6'8"

Design Pressure  
**+40.5/-40.5**  
Limited water unless special threshold design is used.

**Large Missile Impact Resistance**  
**Hurricane protective system (shutters) is REQUIRED.**

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

## MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0004-02 or MAD-WL-MA0007-02 and MAD-WL-MA0041-02.

## MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0004-02.

## APPROVED DOOR STYLES:

### 1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series



822 Series

### 1/2 GLASS:



105 Series\*



106, 160 Series\*



129 Series\*



200 Series\*



12 R/L, 23 R/L, 24 R/L  
Series\*



107 Series\*



108 Series



304 Series

\*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

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**EntrySystems**

June 17, 2002  
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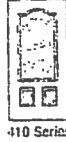
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**Masonite®**  
Masonite International Corporation

## WOOD-EDGE STEEL DOORS

### APPROVED DOOR STYLES: 3/4 GLASS:



404 Series



410 Series



450 Series

### FULL GLASS:



109 Series



114, 120, 122  
Series



152 Series



149 Series



300 Series

### APPROVED SIDELITE STYLES:



680 Series



129 Series



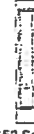
200 Series



12R, 12L, 23R,  
23L, 24R, 24L  
Series



450 Series



152 Series



149 Series



109 Series



120, 122 Series



300 Series

### CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab and sidelite panels glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

### PRODUCT COMPLIANCE LABELING:

TESTED IN  
ACCORDANCE WITH  
MIAMI-DADE BCCO PA202

COMPANY NAME  
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer  
Kurt Balthazor, P.E. - License Number 56533

Warnock Hersey



Test Data Review Certificate #3025447A and COP/Test Report Validation Matrix #3025447A-001 provides additional information - available from the ITSNH website ([www.itsnh.com](http://www.itsnh.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Johnson**  
**EntrySystems**

June 17, 2002  
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMIER Collection  
Premium Quality Doors

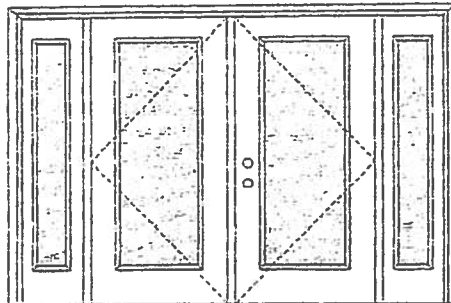
Exclusively from  
**Masonite**  
Masonite International Corporation

**OXXO**  
Glazed Inswing Unit

**COP-WL-JH4145-02**

## WOOD-EDGE STEEL DOORS

### APPROVED ARRANGEMENT:



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITSAWH website ([www.elisemko.com](http://www.elisemko.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Note:**  
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Double Door with 2 Sidelites  
Maximum unit size = 12'0" x 5'8"

**Design Pressure**  
**+40.5/-40.5**  
Limited water unless special threshold design is used.

**Large Missile Impact Resistance**  
**Hurricane protective system (shutters) is REQUIRED.**

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

### MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0005-02 or MAD-WL-MA0008-02 and MAD-WL-MA0041-02.

### MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0005-02.

### APPROVED DOOR STYLES:

#### 1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series



822 Series

#### 1/2 GLASS:



105 Series\*



106, 160 Series\*



129 Series\*



200 Series\*



12 R/L, 23 R/L, 24 R/L  
Series\*



107 Series\*



108 Series



304 Series

\*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

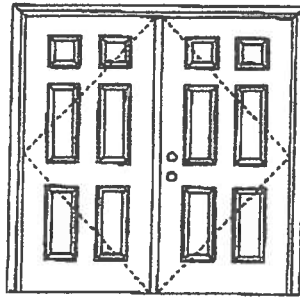
**XX**

Opaque Inswing Unit

COP-WL-JH4102-02

## WOOD-EDGE STEEL DOORS

### APPROVED ARRANGEMENT:



Test Data Review Certificate #3026447A and COP/TEST Report Validation Identify #3026447A-001 provides additional information - available from the ITG/AMH website ([www.itgama.com](http://www.itgama.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Note:**

Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

**Double Door**

Maximum unit size = 6'0" x 6'8"

**Design Pressure**

**+45.0/-45.0**

Excluded water unless special threshold design is used.

**Large Missile Impact Resistance**

**Hurricane protective system (shutters) is NOT REQUIRED.**

Actual design pressure and impact resistance requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the action required.

### MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0002-02.

### MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0002-02.

### APPROVED DOOR STYLES:



Flush



Arch Top 3-panel



3-panel



6-panel



New England 4-panel



Eyebrow 4-panel



8-panel



9-panel



15-panel



5-panel



5-panel with scroll



Eyebrow 5-panel



Eyebrow 5-panel with scroll

**Johnson**  
**EntrySystems**

June 17, 2002  
Our continuing program of product improvement meets new regulations, codes and product standards subject to change without notice.



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**Masonite**  
Masonite International Corporation

## WOOD-EDGE STEEL DOORS

### APPROVED DOOR STYLES: 3/4 GLASS:



404 Series



410 Series



450 Series

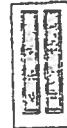
### FULL GLASS:



109 Series



114, 120, 122  
Series



152 Series



149 Series



300 Series

### CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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Frame constructed of wood with an extruded aluminum threshold.

### PRODUCT COMPLIANCE LABELING:

TESTED IN  
ACCORDANCE WITH  
MIAMI-DADE BCCO PA202

COMPANY NAME  
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer  
Kurt Balthazor, P.E. - License Number 56533



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITSS/WH website ([www.itswh.com](http://www.itswh.com)), the Masonite website ([www.masonite.com](http://www.masonite.com)) or the Masonite technical center.

**Johnson™**  
**EntrySystems**

June 17, 2002  
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from  
**Masonite®**  
Masonite International Corporation

Dave  
Edgley

**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**

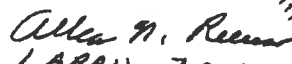
Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft <sup>2</sup>
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

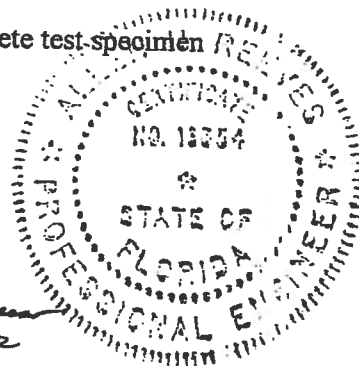
Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

  
Mark A. Hess, Technician

MAH:nlb

  
1 APRIL 2002



Architectural Testing

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

Rendered to

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

Report No: 01-41134.01  
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/I.S.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

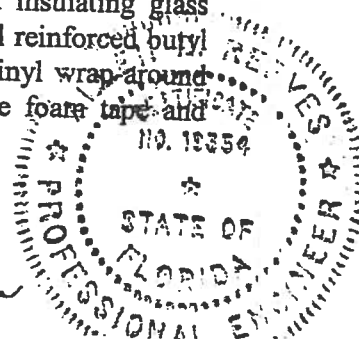
**Screen Size:** 4' 0-1/4" wide by 2' 11-1/8" high

**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 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

Allen G. Reum  
1 APRIL 2002



**Test Specimen Description: (Continued)**

**Weatherstripping:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
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:**

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
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	Active sash bottom rail ends

**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 sealant under the nail fin and around the exterior perimeter.

**Test Results:**

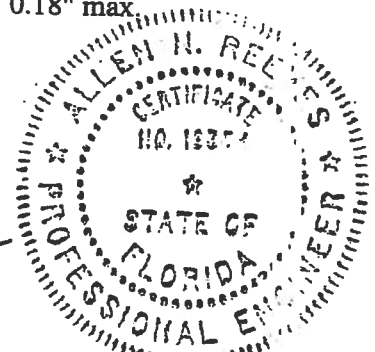
The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft <sup>2</sup>	0.3 cfm/ft <sup>2</sup> max
	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) @ 34.7 psf (negative)	0.42"* 0.43"*	0.26" max. 0.26" max.

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

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
---------	---	----------------	--------------------------

*Allen H. Reese*  
1 APRIL 2002



**Test Specimen Description: (Continued)**

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	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	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

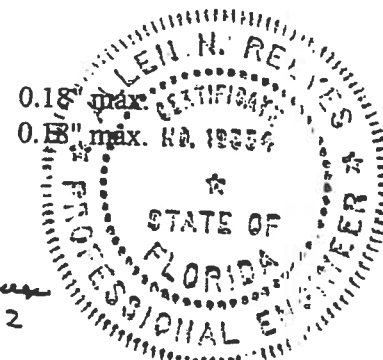
Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	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)	0.05"
@ 70.8 psf (negative)	0.05"

*Allen N. Reeves*  
1 APRIL 2002



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

For ARCHITECTURAL TESTING, INC:



Mark A. Hess  
Technician

MAH:nlb  
01-41134.01



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



# New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

**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.

#25351

## Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.  
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055  
Company Business License No. JB103478 Company Phone No. 386-755-3611 • 352-494-5751  
FHA/VA Case No. (if any) \_\_\_\_\_

## Section 2: Builder Information

Company Name: Doug Edwards Construction Company Phone No. \_\_\_\_\_

## Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 3057 NW Summerfield Rd, Suite 8, Lake City, FL 32055  
Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other \_\_\_\_\_  
Approximate Depth of Footing: Outside 12 Inside 12 Type of Fill Back

## Section 4: Treatment Information

Date(s) of Treatment(s) 3-4-07  
Brand Name of Product(s) Used Terminex 1.2  
EPA Registration No. 82463-92  
Approximate Final Mix Solution % 0.25%  
Approximate Size of Treatment Area: Sq. ft. 2542 Linear ft. 227 Linear ft. of Masonry Voids 227  
Approximate Total Gallons of Solution Applied 342  
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 Treated March 4, 2007. 1 inch

Name of Applicator(s) Steve Brunner Certification No. (if required by State law) \_\_\_\_\_

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 \_\_\_\_\_ Date \_\_\_\_\_

**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)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)