Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0607-39 Date Received 7/7/06 By CF Permit # 16712481 3

Application Approved by - Zoning Official BLK Date 28 07 06 Plans Examiner OKJTH Date 7-31-06

Flood Zone X plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res Low Dens.

Comments See ELEVATION LETTER CAL-Tech 1ST Floor to be 14 ft. 3 ft Elevation letter required NOC

FAX 752-0078

Applicants Name James Johnston Phone 365-5999

Address 650 SW Main Blvd Lake City FL 32055

Owners Name Steve and Shirley Fodor Phone

911 Address 162 NW Lakeside Court, Lake City 32025

Contractors Name James Johnston Phone 365-5999

Address 650 SW Main Blvd. Lake city FL. 32055

Fee Simple Owner Name & Address —

Bonding Co. Name & Address —

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address N/A

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

Property ID Number 28-3S-16-02372-275 Estimated Cost of Construction 120,000 ~

Subdivision Name Emerald LAkes S/D Lot 75 Block ___ Unit ___ Phase 2

Driving Directions 90 W to Brown Rd. turn right go to Emerald Lake Drive turn Left, go to Zack Drive turn right, go to Lakeside Court turn left, 1rst place on right

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage .56 AC Lot Size ___ Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 35 Side 25 Side 30 Rear 142

Total Building Height 17'2" Number of Stories 1 Heated Floor Area 1796 Roof Pitch 6/12

Porch 385 GARAGE 478 TOTAL 2659

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

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

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

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number CRC1328128

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 18th day of July 20 06.

Personally known X or Produced Identification ___

Notary Signature

CAREY F. CHANDLER
MY COMMISSION #DD432023
EXPIRES: MAY 22, 2009
Bonded through 1st State Insurance

Ck #6634

JW left message for Jimmy to call 7.31.06

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 28-35-16-02372-275

1. Description of property: (legal description of the property and street address or 911 address)
Lot 75 Phase 2 Emerald Lakes SD
168 NW Lakeside Court

2. General description of improvement: Build SFD

3. Owner Name & Address Richard + Mary Keen 1256 SW CR 240 Lake City FL 32025 Interest in Property 100%

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name James Johnston III Phone Number 365-5999
Address 650 SW Main Blvd. Lake City FL. 32055

6. Surety Holders Name _____ Phone Number _____
Address _____
Amount of Bond _____

7. Lender Name _____
Address _____

Inst:2006018842 Date:08/08/2006 Time:15:13
S.T. DC,P.DeWitt Cason,Columbia County B:1092 P:452

8. Persons within the State of Florida designated by
served as provided by section 718.13 (1)(a) 7; Florida Statutes.
Name _____ Phone Number _____
Address _____

9. In addition to himself/herself the owner designates _____ of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Richard Keen
Signature of Owner

Sworn to (or affirmed) and subscribed before day of August 8th, 2006

NOTARY STAMP/SEAL

CAREY F. CHANDLER
MY COMMISSION #DD432023
EXPIRES: MAY 22, 2009
Bonded through 1st State Insurance

Carey F. Chandler
Signature of Notary

Residential System Sizing Calculation

Summary

Fodor Residence

, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

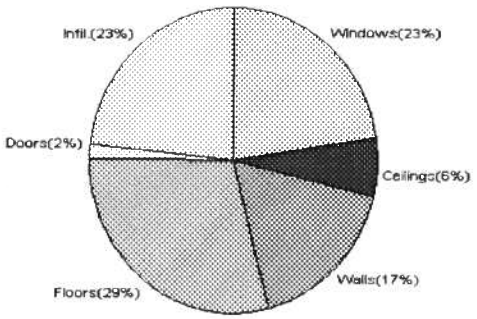
7/11/2006

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
Total heating load calculation	**33902**	**Btuh**	**Total cooling load calculation**	**27157**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	115.0	39000	Sensible (SHR = 0.75)	131.3	29250
Heat Pump + Auxiliary(0.0kW)	115.0	39000	Latent	200.0	9750
			Total (Electric Heat Pump)	143.6	39000

WINTER CALCULATIONS

Winter Heating Load (for 1796 sqft)

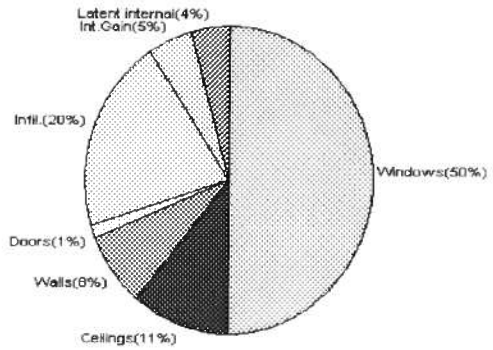
Load component			Load	
Window total	240	sqft	7726	Btuh
Wall total	1552	sqft	5784	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	1796	sqft	2116	Btuh
Floor total	229	sqft	9998	Btuh
Infiltration	192	cfm	7760	Btuh
Duct loss			0	Btuh
Subtotal			**33902**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**33902**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1796 sqft)

Load component			Load	
Window total	240	sqft	13547	Btuh
Wall total	1552	sqft	2116	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	1796	sqft	2974	Btuh
Floor total			0	Btuh
Infiltration	101	cfm	1872	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**22281**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3676	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**4876**	**Btuh**
TOTAL HEAT GAIN			**27157**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 7-11-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

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

7/11/2006

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	NE	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	NE	40.0	32.2	1288 Btuh
4	2, Clear, Metal, 0.87	NW	80.0	32.2	2575 Btuh
5	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
7	2, Clear, Metal, 0.87	SE	9.0	32.2	290 Btuh
8	2, Clear, Metal, 0.87	SW	9.0	32.2	290 Btuh
9	2, Clear, Metal, 0.87	SW	45.0	32.2	1449 Btuh
	Window Total		240(sqft)		7726 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk, - Ext(0.10)	10.0	1316	3.8	5009 Btuh
2	Frame - Wood - Adj(0.09)	13.0	236	3.3	775 Btuh
	Wall Total		1552		5784 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1796	1.2	2116 Btuh
	Ceiling Total		1796		2116Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	229.0 ft(p)	43.7	9998 Btuh
	Floor Total		229		9998 Btuh
			Zone Envelope Subtotal:		26142 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	14368	191.6	7760 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**33902 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

7/11/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	33902 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33902 Btuh

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

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

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

7/11/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
3	2, Clear, Metal, 0.87	NE	40.0	32.2	1288 Btuh
4	2, Clear, Metal, 0.87	NW	80.0	32.2	2575 Btuh
5	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
7	2, Clear, Metal, 0.87	SE	9.0	32.2	290 Btuh
8	2, Clear, Metal, 0.87	SW	9.0	32.2	290 Btuh
9	2, Clear, Metal, 0.87	SW	45.0	32.2	1449 Btuh
	Window Total		240(sqft)		7726 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk, - Ext(0.10)	10.0	1316	3.8	5009 Btuh
2	Frame - Wood - Adj(0.09)	13.0	236	3.3	775 Btuh
	Wall Total		1552		5784 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1796	1.2	2116 Btuh
	Ceiling Total		1796		2116Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	229.0 ft(p)	43.7	9998 Btuh
	Floor Total		229		9998 Btuh
			Zone Envelope Subtotal:		26142 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	14368	191.6	7760 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**33902 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Fodor Residence

, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

7/11/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	33902 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33902 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 7/11/2006

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	6.0	0.0	6.0	29	60	360 Btuh
3	2, Clear, 0.87, None,N,N	NE	19.6	8ft.	40.0	0.0	40.0	29	60	2401 Btuh
4	2, Clear, 0.87, None,N,N	NW	12.0	8ft.	80.0	0.0	80.0	29	60	4803 Btuh
5	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	6.0	0.0	6.0	29	60	360 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	3.5ft.	9.0	6.1	2.9	29	63	359 Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	9.0	6.1	2.9	29	63	359 Btuh
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	45.0	18.2	26.8	29	63	2203 Btuh
	Window Total				240 (sqft)					13547 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Concrete Blk, - Ext	10.0/0.10	1316.0	1.3	1760 Btuh
2	Frame - Wood - Adj	13.0/0.09	236.0	1.5	356 Btuh
	Wall Total		1552 (sqft)		2116 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1796.0	1.7	2974 Btuh
	Ceiling Total		1796 (sqft)		2974 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	229 (ft(p))	0.0	0 Btuh
	Floor Total		229.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		19030 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	14368	100.6	1872 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	0	1380 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**22281 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

7/11/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**22281 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**22281 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**22281 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3676 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
	Latent total gain	**4876 Btuh**
	TOTAL GAIN	**27157 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 7/11/2006
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	6.0	0.0	6.0	29	60	360 Btuh
3	2, Clear, 0.87, None,N,N	NE	19.6	8ft.	40.0	0.0	40.0	29	60	2401 Btuh
4	2, Clear, 0.87, None,N,N	NW	12.0	8ft.	80.0	0.0	80.0	29	60	4803 Btuh
5	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	6.0	0.0	6.0	29	60	360 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	3.5ft.	9.0	6.1	2.9	29	63	359 Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	9.0	6.1	2.9	29	63	359 Btuh
9	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	45.0	18.2	26.8	29	63	2203 Btuh
	Window Total				240 (sqft)					13547 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Concrete Blk, - Ext	10.0/0.10	1316.0	1.3	1760 Btuh
2	Frame - Wood - Adj	13.0/0.09	236.0	1.5	356 Btuh
	Wall Total		1552 (sqft)		2116 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1796.0	1.7	2974 Btuh
	Ceiling Total		1796 (sqft)		2974 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	229 (ft(p))	0.0	0 Btuh
	Floor Total		229.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		19030 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	14368	100.6	1872 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	0	1380 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**22281 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Fodor Residence
, FL

Project Title:
606209HometownHomes

Class 3 Rating
Registration No. 0
Climate: North

7/11/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**22281 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**22281 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**22281 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3676 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
	Latent total gain	**4876 Btuh**
	TOTAL GAIN	**27157 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Fodor Residence

, FL

Project Title:
606209HometownHomes

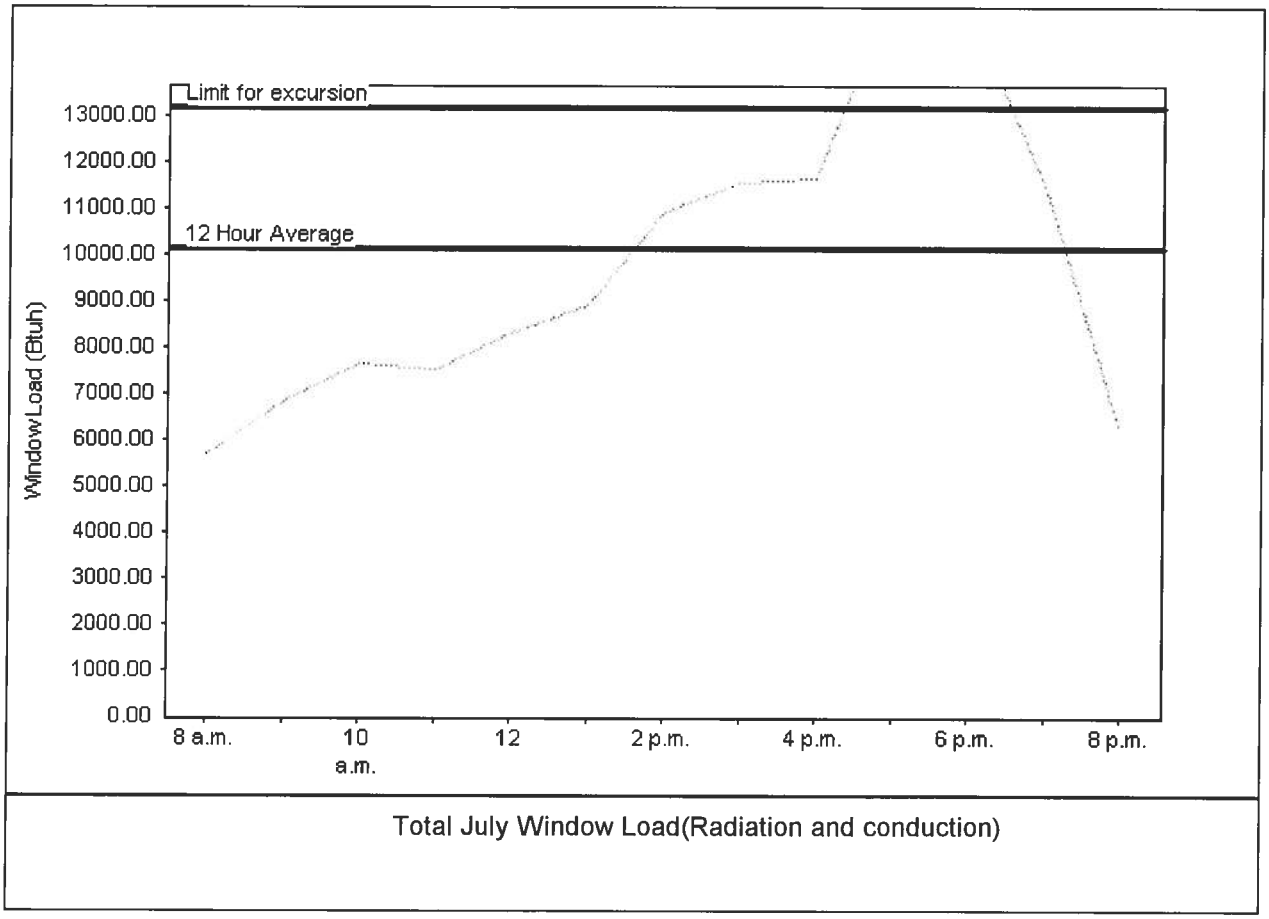
Class 3 Rating
Registration No. 0
Climate: North

7/11/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	10132 Btu
Summer setpoint	75 F	Peak window load for July	15805 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	13172 Btu
Latitude	29 North	Window excursion (July)	2633 Btuh

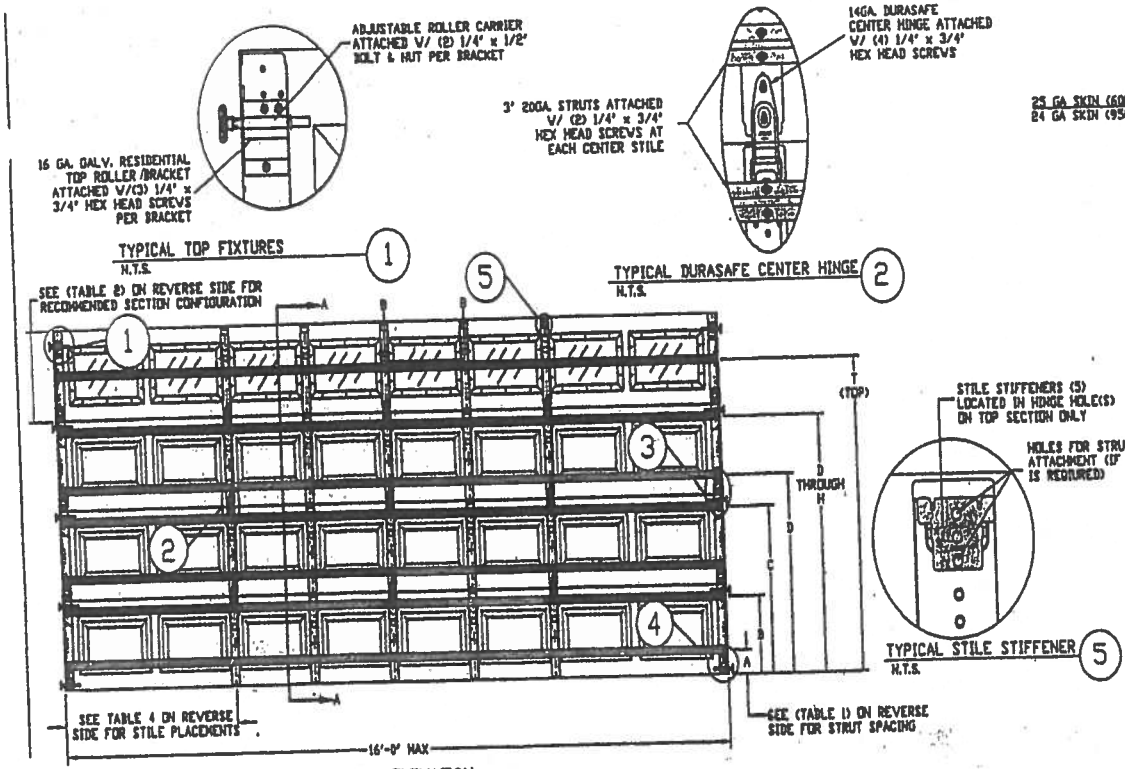
WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

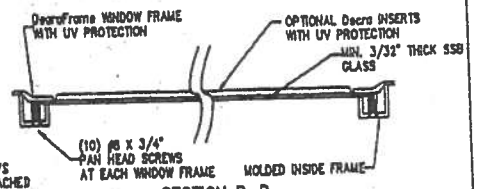
EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 7-11-06



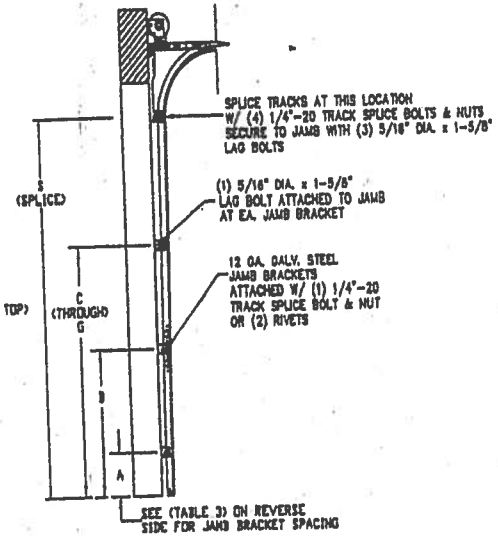
GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION

TEST No. IRC-6009-169-15 ON OCTOBER 10, 2002 INCLUDED GLAZING IN THE TESTED DOOR. THE TEST PRESSURES WERE +67.9 PSF AND -80.3 PSF. BY COMPARISON, UP TO EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF EITHER THE MODEL 600 OR 950 DOORS CONSTRUCTED PER THIS DRAWING.



SECTION B-B



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 120 MPH PEAK GUST EXPOSURE B, 30' OR LESS MEAN ROOF HEIGHT

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 3,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 3-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 3-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET TAPCON 1/4" X 3-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.(1 1/4" EMBEDMENT)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
**PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK. FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF +174.4 LBS/FT & -196.4 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. MIN. (.018") ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108, ASTM E330, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98 WITH THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 120 MPH (PEAK GUST)
   B. DOOR CAN BE INSTALLED WITH 8 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 30' OR LESS MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF B
7. REFER TO TABLES ON THE REVERSE SIDE FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16' x 14'

DESIGN LOADS +21.8 PSF -24.8 PSF

TEST LOADS +32.7 PSF -37.2 PSF

JUN 03 2003

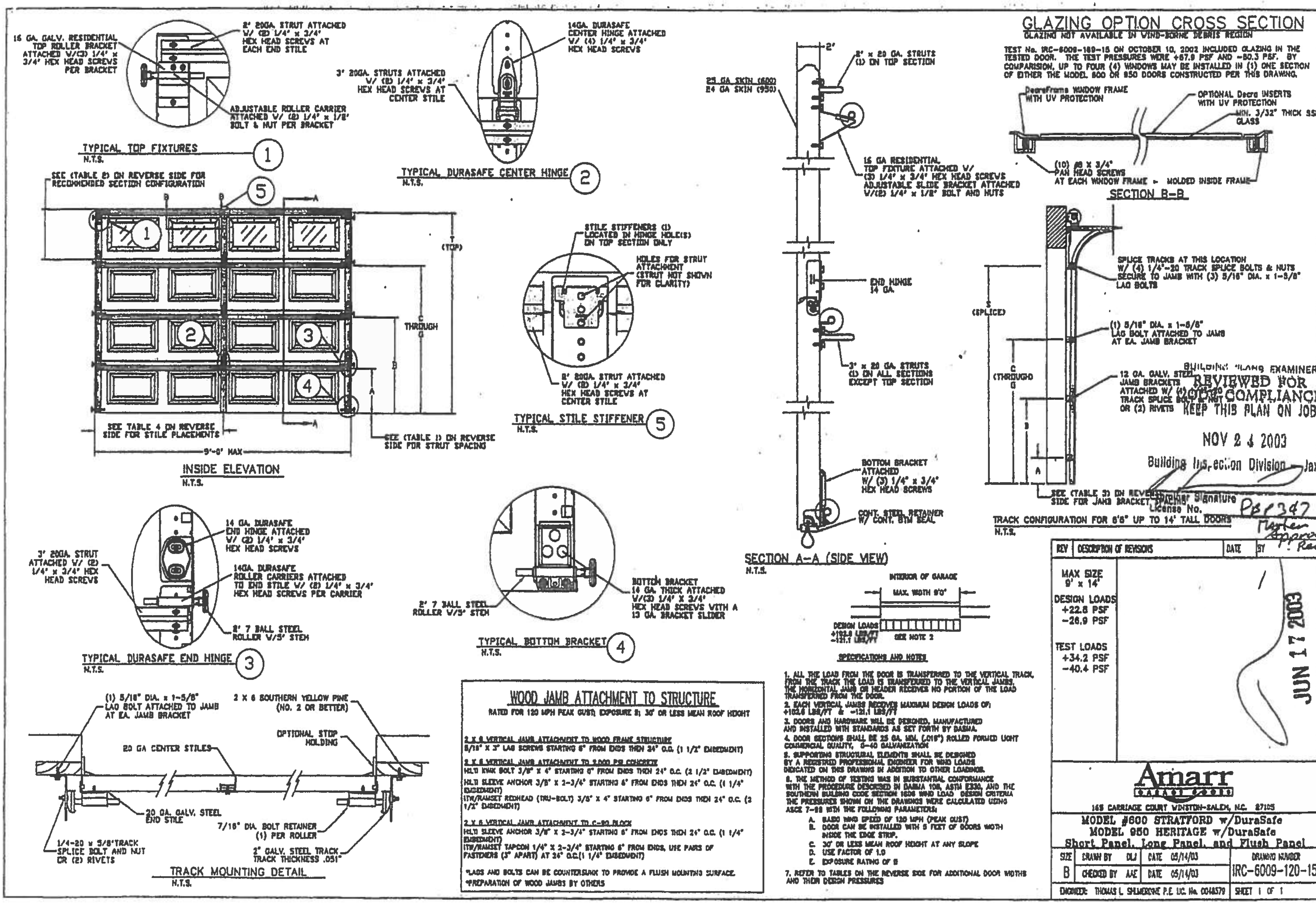
Amarr GARAGE DOOR

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

MODEL #600 STRATFORD w/DuraSafe
MODEL 950 HERITAGE w/DuraSafe
Short Panel, Long Panel, and Flush Panel

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	CHECKED BY	DATE	IRC-6016-120-15
	ENGINEER: THOMAS L. SILVERDINE P.E. LIC. No. 0048579		SHEET 1 OF 1

9x7



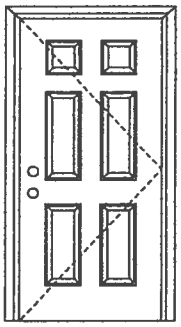
16 GA. GALV. RESIDENTIAL TOP ROLLER BRACKET ATTACHED W/(3) 1/4" x 3/4" HEX HEAD SCREWS PER BRACKET
2" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE
ADJUSTABLE ROLLER CARRIER ATTACHED W/ (2) 1/4" x 1/2" BOLT & NUT PER BRACKET
TYPICAL TOP FIXTURES
N.T.S.
1
14GA. DURASAFE CENTER HINGE ATTACHED W/ (4) 1/4" x 3/4" HEX HEAD SCREWS
3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT CENTER STILE
TYPICAL DURASAFE CENTER HINGE
N.T.S.
2
SEE (TABLE 2) ON REVERSE SIDE FOR RECOMMENDED SECTION CONFIGURATION
5
SEE TABLE 4 ON REVERSE SIDE FOR STILE PLACEMENTS
9'-0" MAX
SEE (TABLE 1) ON REVERSE SIDE FOR STRUT SPACING
T (TOP)
C THROUGH G
INSIDE ELEVATION
N.T.S.
STILE STIFFENERS (1) LOCATED IN HINGE HOLE(S) ON TOP SECTION ONLY
HOLES FOR STRUT ATTACHMENT (STRUT NOT SHOWN FOR CLARITY)
3" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT CENTER STILE
TYPICAL STILE STIFFENER
N.T.S.
5
3" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS
14 GA. DURASAFE END HINGE ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS
14GA. DURASAFE ROLLER CARRIERS ATTACHED TO END STILE W/ (2) 1/4" x 3/4" HEX HEAD SCREWS PER CARRIER
2" 7 BALL STEEL ROLLER W/5" STEM
TYPICAL DURASAFE END HINGE
N.T.S.
3
2" 7 BALL STEEL ROLLER W/5" STEM
BOTTOM BRACKET 14 GA. THICK ATTACHED W/(3) 1/4" X 3/4" HEX HEAD SCREWS WITH A 13 GA. BRACKET SLIDER
TYPICAL BOTTOM BRACKET
N.T.S.
4
(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET
2 X 6 SOUTHERN YELLOW PINE (NO. 2 OR BETTER)
OPTIONAL STOP MOLDING
20 GA CENTER STILES
20 GA. GALV. STEEL END STILE
7/16" DIA. BOLT RETAINER (1) PER ROLLER
1/4-20 x 5/8"TRACK SPLICE BOLT AND NUT OR (2) RIVETS
2" GALV. STEEL TRACK TRACK THICKNESS .051"
TRACK MOUNTING DETAIL
N.T.S.
WOOD JAMB ATTACHMENT TO STRUCTURE
RATED FOR 120 MPH PEAK GUST; EXPOSURE B; 30' OR LESS MEAN ROOF HEIGHT
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 24" O.C.(1 1/4" EMBEDMENT)
*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS
2"
2" x 20 GA. STRUTS (1) ON TOP SECTION
25 GA SKIN (600)
24 GA SKIN (950)
16 GA RESIDENTIAL TOP FIXTURE ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS ADJUSTABLE SLIDE BRACKET ATTACHED W/(2) 1/4" x 1/2" BOLT AND NUTS
END HINGE 14 GA.
3" x 20 GA. STRUTS (1) ON ALL SECTIONS EXCEPT TOP SECTION
BOTTOM BRACKET ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS
CONT. STEEL RETAINER W/ CONT. BTM SEAL
SECTION A-A (SIDE VIEW)
N.T.S.
INTERIOR OF GARAGE
MAX. WIDTH 9'0"
DESIGN LOADS +102.6 LBS/FT -121.1 LBS/FT
SEE NOTE 2
SPECIFICATIONS AND NOTES
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +102.6 LBS/FT & -121.1 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108, ASTM E330, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98 WITH THE FOLLOWING PARAMETERS:
A. BASIC WIND SPEED OF 120 MPH (PEAK GUST)
B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
C. 30' OR LESS MEAN ROOF HEIGHT AT ANY SLOPE
D. USE FACTOR OF 1.0
E. EXPOSURE RATING OF B
7. REFER TO TABLES ON THE REVERSE SIDE FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES
GLAZING OPTION CROSS SECTION
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
TEST No. IRC-6009-189-15 ON OCTOBER 10, 2002 INCLUDED GLAZING IN THE TESTED DOOR. THE TEST PRESSURES WERE +67.9 PSF AND -80.3 PSF. BY COMPARISION, UP TO FOUR (4) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF EITHER THE MODEL 600 OR 950 DOORS CONSTRUCTED PER THIS DRAWING.
DecraFrame WINDOW FRAME WITH UV PROTECTION
OPTIONAL Decra INSERTS WITH UV PROTECTION
MIN. 3/32" THICK SSB GLASS
(10) #8 X 3/4" PAN HEAD SCREWS AT EACH WINDOW FRAME - MOLDED INSIDE FRAME
SECTION B-B
SPLICE TRACKS AT THIS LOCATION W/ (4) 1/4"-20 TRACK SPLICE BOLTS & NUTS SECURE TO JAMB WITH (3) 5/16" DIA. x 1-5/8" LAG BOLTS
S (SPLICE)
(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET
C (THROUGH G)
12 GA. GALV. STEEL JAMB BRACKETS ATTACHED W/ (4) TRACK SPLICE BOLT & NUT OR (2) RIVETS
SEE (TABLE 3) ON REVERSE SIDE FOR JAMB BRACKET SPACING
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.
BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
NOV 2 4 2003
Building Inspection Division - Jax.
Examiner Signature
License No.
PB 347
REV | DESCRIPTION OF REVISIONS | DATE | BY
MAX SIZE 9' x 14'
DESIGN LOADS +22.8 PSF -26.9 PSF
TEST LOADS +34.2 PSF -40.4 PSF
JUN 17 2003
Amarr GARAGE DOORS
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105
MODEL #600 STRATFORD w/DuraSafe
MODEL 950 HERITAGE w/DuraSafe
Short Panel, Long Panel, and Flush Panel
SIZE B | DRAWN BY DLJ | DATE 05/14/03 | CHECKED BY AAE | DATE 05/14/03
DRAWING NUMBER IRC-6009-120-15
ENGINEER: THOMAS L. SHLMERONE P.E. LIC. No. 0048579
SHEET 1 OF 1

X
Opaque Inswing Unit

COP-WL-MA0101-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



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

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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

Design Pressure
+76.0/-76.0
limited water unless special threshold design is used.

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

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

MINIMUM ASSEMBLY DETAIL:

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

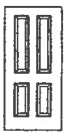
MINIMUM INSTALLATION DETAIL:

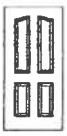
Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

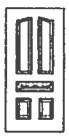

Flush


6-panel


New England 4-panel


Eyebrow 4-panel


9-panel


Eyebrow 5-panel with scroll

Oakcraft Wood-grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

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

PREMDOOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Opaque Inswing Unit

COP-WL-MA0101-02

FIBERGLASS DOORS

CERTIFIED TEST REPORTS:

NCTL 210-1973-1, 2, 3

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO 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 Balthazor

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

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

PREMDOR Collection Premium Quality Doors

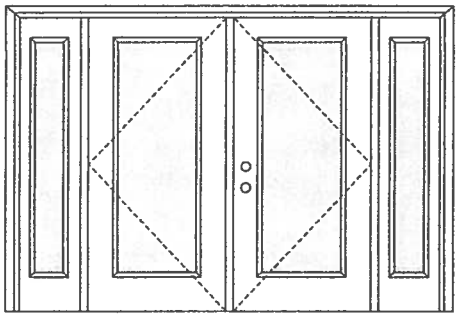
Exclusively from Masonite® Masonite International Corporation

OXXO
Glazed Inswing Unit

COP-WL-MA0145-02

FIBERGLASS DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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

Double Door with 2 Sidelites
Maximum unit size = 12'0" x 6'8"

Design Pressure
+52.0/-52.0
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:

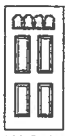
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0005-02 or MAD-WL-MA0008-02 and MAD-WL-MA0041-02.

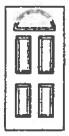
MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:

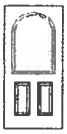

100 Series

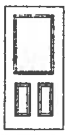

133, 135 Series


136 Series


822 Series

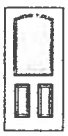
1/2 GLASS:


105 Series


106, 160 Series*


129 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 style: Eyebrow 5-panel with scroll.

Oakcraft Wood-grain Textured FIBERGLASS ENTRY DOORS

ARTEK™ Non-Textured Fiberglass Entry Doors

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

June 17, 2002

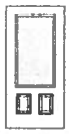
OXXO
Glazed Inswing Unit

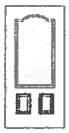
COP-WL-MA0145-02

FIBERGLASS DOORS

APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


410 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

APPROVED SIDELITE STYLES:


129 Series


200 Series


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

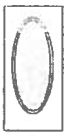

450 Series


152 Series


149 Series


109 Series


120, 122 Series


300 Series

CERTIFIED TEST REPORTS:

CTLA-805W-2

Certifying Engineer and License Number: Ramesh Patel, P.E./20224

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Door panels constructed from 0.075" minimum thick fiberglass skins. Both stiles constructed of 1-5/8" laminated lumber. Top end rails constructed of 31/32" wood. Bottom end rails constructed of 31/32" wood composite. Interior cavity of slab filled with rigid polyurethane foam core. Slab 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 Balthazor

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

Warnock Hersey

Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Oakcraft Wood-grain Textured FIBERGLASS ENTRY DOORS

ARTEK Non-Textured Fiberglass Entry Doors

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

PREMDOOR Collection Premium Quality Doors

Exclusively from Masonite

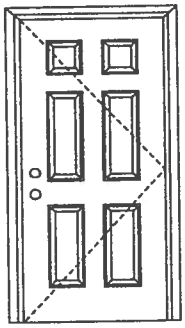
Masonite International Corporation

X
Opaque Inswing Unit

COP-WL-JH4101-02

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".

Warnock Hersey

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

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

Design Pressure
+66.0/-66.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

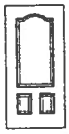
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

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

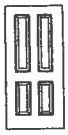
APPROVED DOOR STYLES:

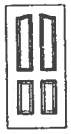

Flush

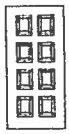

Arch Top 3-panel


3-panel


6-panel

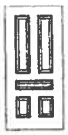

New England 4-panel

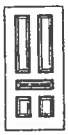

Eyebrow 4-panel

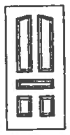

8-panel


9-panel


15-panel


5-panel


5-panel with scroll


Eyebrow 5-panel


Eyebrow 5-panel with scroll

Johnson™ EntrySystems

June 17, 2002
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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

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 PA201, PA202 and PA203.

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.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

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

Warnock Hersey

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

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PREMDOR Collection Premium Quality Doors

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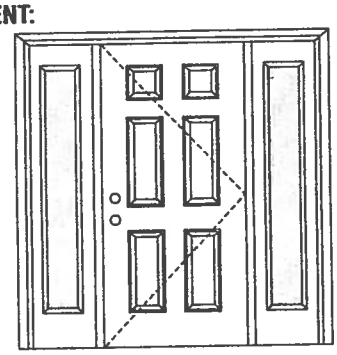
Masonite International Corporation

OXO
Opaque Inswing Unit

COP-WL-JH4104-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

Warnock Hersey

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

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

Design Pressure

+57.0/-57.0 with maximum sidelite panel width of 1'2"
+45.0/-45.0 with maximum sidelite panel width of 3'0"
limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED on opaque panels, but is required on glazed panels.

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

MINIMUM ASSEMBLY DETAIL:

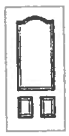
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0004-02 or MAD-WL-MA0007-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:


Flush

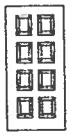

Arch Top 3-panel

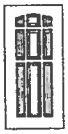

3-panel


6-panel

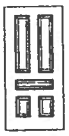

New England 4-panel

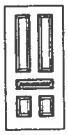

Eyebrow 4-panel


8-panel

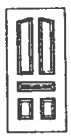

9-panel


15-panel


5-panel


5-panel with scroll


Eyebrow 5-panel


Eyebrow 5-panel with scroll

Johnson™ EntrySystems

June 17, 2002
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PREMDOR Collection Premium Quality Doors

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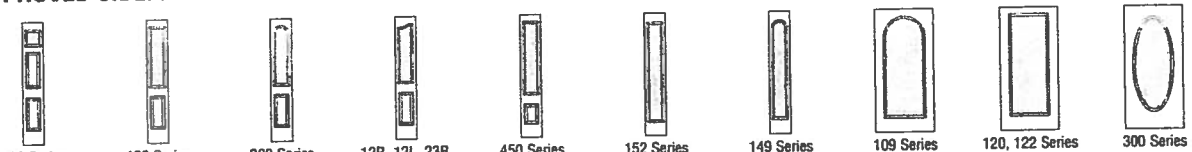
Masonite International Corporation

OXO
Opaque Inswing Unit

COP-WL-JH4104-02

WOOD-EDGE STEEL DOORS

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 210-1905-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL-210-1880-7, 9, 10, 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 PA201, PA202 and PA203.

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. 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
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

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

Kurt L Balthy

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

Warnock Hersey

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

Johnson™ EntrySystems

June 17, 2002
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PREMDOOR Collection Premium Quality Doors

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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

ALLEN N. REEVES
CERTIFICATE
NO. 19354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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 17402-3405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen N. Reeves

ALLEN N. REEVES
No. 19354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

ALLEN N. REEVES
CERTIFICATE
NO. 19
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves

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:

Paragraph	Title of Test - Test Method	Results	Allowed
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^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.

**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)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES ★ CERTIFICATE NO. 19374 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★

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	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"	0.18" max.
@ 70.8 psf (negative)	0.05"	0.18" max.

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
No. 19334
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

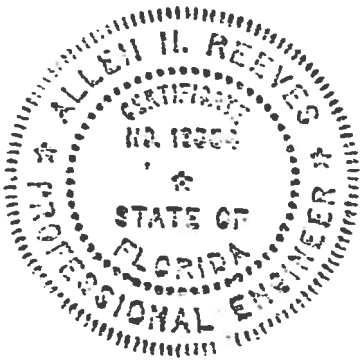
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification.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

For ARCHITECTURAL TESTING, INC:

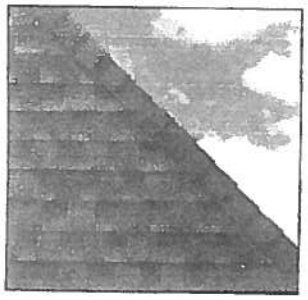
Mark A. Hess
Technician

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

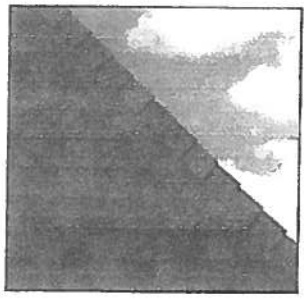
MAH:nlb
01-41134.01



ELK Roofing Products Specifications – Tuscaloosa, AL



PRESTIQUE®
HIGH DEFINITION®



RAISED PROFILE™

Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size	13¼"x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	11

50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Raised Profile

Product size	13¼"x 38¾"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique I *High Definition*

Product size	13¼"x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	14

40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique *High Definition*

Product size	13¼"x 38¾"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/*FLX*™

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

Elk Starter Strip

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

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

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

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

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

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

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

SPECIFICATIONS

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

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

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

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

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

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

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

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

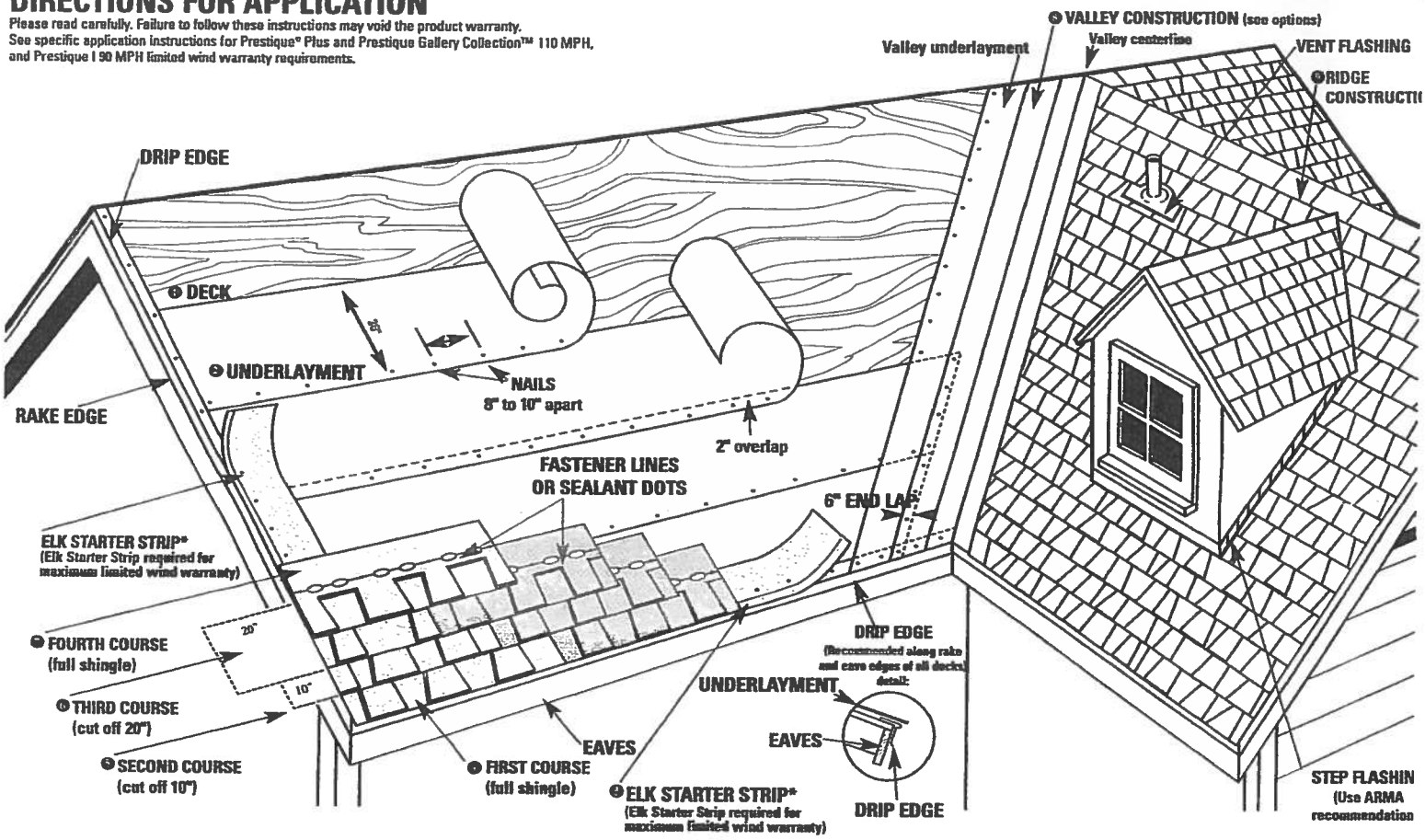
PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.con

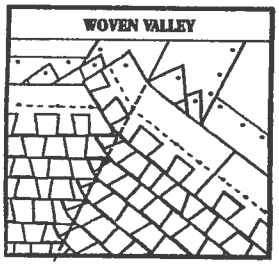
SSOOT 01/02

DIRECTIONS FOR APPLICATION

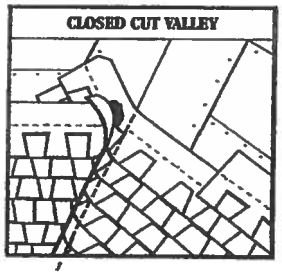
Please read carefully. Failure to follow these instructions may void the product warranty.
See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH, and Prestique I 90 MPH limited wind warranty requirements.



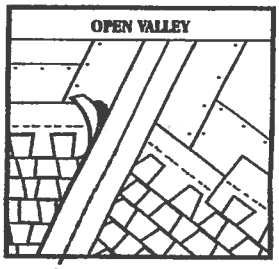
VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manu



VALLEY CENTER LINE



VALLEY CENTER LINE



VALLEY CENTER LINE

DIRECTIONS FOR APPLICATION

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

❶ DECK PREPARATION

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

❷ UNDERLAYMENT

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

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

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

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

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

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

❸ STARTER SHINGLE COURSE

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

❹ FIRST COURSE

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

❺ SECOND COURSE

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

❻ THIRD COURSE

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

❼ FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES.

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

❽ VALLEY CONSTRUCTION

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

❾ RIDGE CONSTRUCTION

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

FASTENERS

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

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

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

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

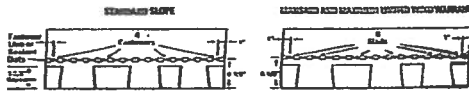
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

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

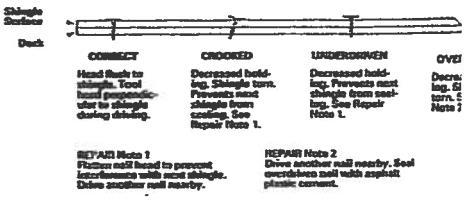
LIMITED WIND WARRANTY

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



HELP STOP BLOW-OFFS AND CALL-BACKS

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



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

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

ELK

www.elkcorp.c

THE RENAISSANCE SERIES

Colonial

VENT-FREE GAS FIREPLACES

V32/36/42/50 Model Series

Warm Up To A High-Efficiency Colonial

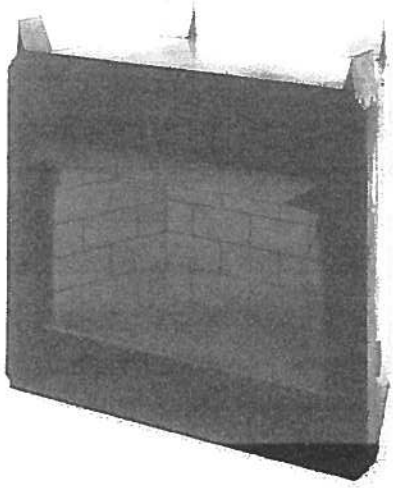
There's a growing demand for vent-free gas fireplaces because they're 99 percent energy-efficient and can be installed virtually anywhere. FMI's *Colonial* vent-free models deliver these benefits and more. They're part of our exciting new Renaissance Series, which offers a consistent look, sizing and construction across the entire line...plus beautiful new features homeowners will love!

Homeowner Highlights:

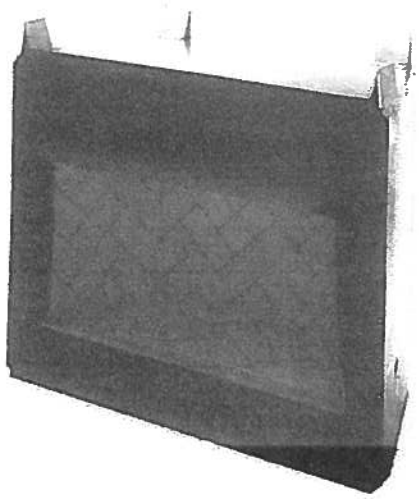
- **Visual appeal**—The industry's finest textured refractory brick liner (except 32") offers the attractive look of a true masonry fireplace.
- **Many luxury features are standard**—The Colonial comes standard with a heat deflection hood, hidden screen pockets (except 50"), stamped steel louvered panels, and other distinctive features.
- **Dollar-saving efficiency**—Paired with an Fmi vent free gas log heater, the systems 99% energy efficiency can provide dramatic energy savings.

Builder Benefits:

- **Straight, secure installation**—We've added full-length nailing flanges, and drywall stops.
- **Flexibility in the field**—You can quickly convert from louvered to clean face at any time (except 50").
- **Economical and versatile**—There's no chimney required. Can be installed virtually anywhere.



V36 is our louver-faced 36" fireplace with textured refractory brick-lined interior.

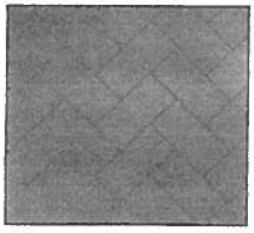


V42 is FMI's 42" louvered-face fireplace shown with optional herringbone textured refractory brick-lined interior.

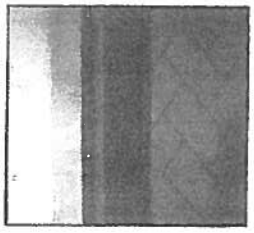
Colonial Vent-Free Fireplace Product Offering Summary

32", 36", 42" & 50" Vent-Free Fireplace Models Available With The Following:

- Clean or Louver (Circulating) Faced Models Available (Clean Faced only on 50")
- Traditional Stacked and Herringbone Pattern Refractory Brick-Lined Interiors
- Solid wrap or Outside Air Ready Models



The Colonial features the industry's finest textured refractory brick lining.

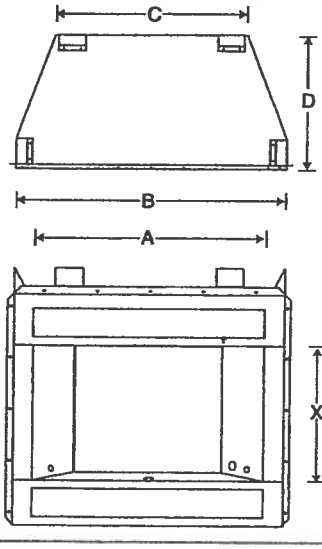


You get straight, solid installation, thanks to our full-length nailing flanges and drywall stops.

Accessory Offering Summary

- Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Decorative Filigree Panels (Black, Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Heat Deflection Hoods (Brushed Brass & Platinum)
- Fan Kits
- Standard & Herringbone Refractory Brick Liners

Dimensions (For reference only. Not for Installation)



	32"	36"	42"	50"
A	29 1/2	35	42	50
B	34 1/2	41	48	59
C	22 3/8	29	36 1/16	38 1/2
D	16 3/4	21	23 1/16	28 1/2
X	18 1/4	21	24	30
Y	32 1/4	36	40	49
Z	36 1/2	40 5/8	44 1/4	54 3/4

FIREPLACES FOR BUILDERS

Fmi

Fmi Hearth Industries
www.fmifireplace.com
For more information, call (866) 328-4537

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☑	☐	**Elevations including:**
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation
☐	☐	d) Location, size and height above roof of chimneys
☐	☐	e) Location and size of skylights
☑	☐	f) Building height
☑	☐	e) Number of stories

Floor Plan including:

- ☑ ☐ a) Rooms labeled and dimensioned
- ☑ ☐ b) Shear walls
- ☑ ☐ c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- ☐ ☐ d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- ☐ ☐ e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- ☐ ☐ f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

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

Roof System:

- ☑ ☐ a) Truss package including:
    1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
    2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- ☐ ☐ b) Conventional Framing Layout including:
    1. Rafter size, species and spacing
    2. Attachment to wall and uplift
    3. Ridge beam sized and valley framing and support details
    4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- ☑ ☐ a) Masonry wall
    1. All materials making up wall
    2. Block size and mortar type with size and spacing of reinforcement
    3. Lintel, tie-beam sizes and reinforcement
    4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
    5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
    6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
    7. Fire resistant construction (if required)
    8. Fireproofing requirements
    9. Shoe type of termite treatment (termicide or alternative method)
    10. Slab on grade
        a. Vapor retardant (6mil. Polyethylene with joints lapped 6 inches and sealed)
        b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
    11. Indicate where pressure treated wood will be placed
    12. Provide insulation R value for the following:
        a. Attic space
        b. Exterior wall cavity
        c. Crawl space (if applicable)

☑ ☐ **b) Wood frame wall**

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
    a. Vapor retardant (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

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

Floor Framing System:

☐ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☑ ☐ **Plumbing Fixture layout**

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

☑ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

HVAC information

☑ ☐ a) Manual J sizing equipment or equivalent computation

☑ ☐ b) Exhaust fans in bathroom

☑ ☐ **Energy Calculations** (dimensions shall match plans)

☐ ☐ **Gas System** Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

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

☑ ☐ **Private Potable Water**

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0607-39

Contractor: James Johnston Owner Steve & Shirley Fodor 28-3s-16-02372-275

On the date of July 19, 2006 application 0607-39 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0607-39 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

To help ensure compliance with the Florida Residential Code 2004 the comments below need to be addressed on the plans.

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.

2. Please submit a recorded (with the Columbia County Clerk Office) notice of commencement before any inspections can be preformed by the Columbia County Building Department.

3. The master bathroom shower window shall comply with sections R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

4. As per sheet S-1 of the wind-load design please show a typical exterior wall section, which shows the interior side of the exterior wall detailing the type of insulation to be used to achieve the energy efficiency code requirements of the FBC. Also show the method of attachment and the type material which will be used to attach sheetrock to the interior side of the shear concrete walls.

5. As per a phone conservation with Mr. Mark Disosway this date he indicates that the structural sheer wall may be redesigned, please consult with Mr. Disosway and submit any redesigned of this structure.

6. The interior wall section which forms the separation of the covered porch from the eating and living areas shows, one wall which will be enclosed by installing a four section sliding glass doors. Please submit the manufacture Florida product approval number and a wind-load rating for this door unit.

Joe Haltiwanger

Plan Examiner
Columbia County

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**606209HometownHomes**	Builder:	
Address:	**Lot: 75, Sub: Emerald Lakes, Plat:**	Permitting Office:	COLUMBIA
City, State:	**, FL**	Permit Number:	24813
Owner:	**Fodor Residence**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 39.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1796 ft²	13. Heating systems	
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 39.0 kBtu/hr
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 240.0 ft²		HSPF: 7.00
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 240.0 ft²	b. N/A	
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 229.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 40.0 gallons
c. N/A			EF: 0.93
9. Wall types		b. N/A	
a. Concrete, Int Insul, Exterior	R=10.0, 1316.0 ft²	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
b. Frame, Wood, Adjacent	R=13.0, 236.0 ft²	15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1796.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

Glass/Floor Area: 0.13	Total as-built points: 26217 Total base points: 26577	PASS

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

PREPARED BY: _____

DATE: 7-11-06

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

OWNER/AGENT: _____

DATE: 7-18-06

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 75, Sub: Emerald Lakes, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1796.0	20.04	6478.5	Double, Clear	W	1.5	5.5	15.0	38.52	0.90	518.3	
				Double, Clear	W	1.5	3.5	6.0	38.52	0.78	180.0	
				Double, Clear	W	19.7	8.0	40.0	38.52	0.39	597.6	
				Double, Clear	S	12.1	8.0	80.0	35.87	0.47	1355.7	
				Double, Clear	W	1.5	5.5	30.0	38.52	0.90	1036.6	
				Double, Clear	W	1.5	3.5	6.0	38.52	0.78	180.0	
				Double, Clear	N	1.5	3.5	9.0	19.20	0.86	148.4	
				Double, Clear	E	1.5	3.5	9.0	42.06	0.78	293.6	
				Double, Clear	E	1.5	5.5	45.0	42.06	0.90	1696.4	
				As-Built Total:				**240.0**			**6006.5**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =	Points		
Adjacent	236.0	0.70	165.2	Concrete, Int Insul, Exterior			10.0	1316.0	0.47	625.1		
Exterior	1316.0	1.70	2237.2	Frame, Wood, Adjacent			13.0	236.0	0.60	141.6		
Base Total:	**1552.0**		**2402.4**	**As-Built Total:**				**1552.0**		**766.7**		
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =	Points		
Adjacent	20.0	1.60	32.0	Exterior Insulated				20.0	4.10	82.0		
Exterior	20.0	4.10	82.0	Adjacent Insulated				20.0	1.60	32.0		
Base Total:	**40.0**		**114.0**	**As-Built Total:**				**40.0**		**114.0**		
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =	Points		
Under Attic	1796.0	1.73	3107.1	Under Attic			30.0	1796.0	1.73 X 1.00	3107.1		
Base Total:	**1796.0**		**3107.1**	**As-Built Total:**				**1796.0**		**3107.1**		
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =	Points		
Slab	229.0(p)	-37.0	-8473.0	Slab-On-Grade Edge Insulation			0.0	229.0(p	-41.20	-9434.8		
Raised	0.0	0.00	0.0									
Base Total:			**-8473.0**	**As-Built Total:**				**229.0**		**-9434.8**		
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =	Points		
	1796.0	10.21	18337.2					1796.0	10.21	18337.2		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 75, Sub: Emerald Lakes, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 21966.2			**Summer As-Built Points:**					**18896.7**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 39000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			18897	1.00	(1.09 x 1.147 x 0.91)	0.341	1.000	7337.6
21966.2	**0.4266**	**9370.8**	**18896.7**	**1.00**	**1.138**	**0.341**	**1.000**	**7337.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 75, Sub: Emerald Lakes, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1796.0	12.74	4118.6	Double, Clear	W	1.5	5.5	15.0	20.73	1.03	319.7
				Double, Clear	W	1.5	3.5	6.0	20.73	1.07	132.6
				Double, Clear	W	19.7	8.0	40.0	20.73	1.23	1021.4
				Double, Clear	S	12.1	8.0	80.0	13.30	3.28	3492.5
				Double, Clear	W	1.5	5.5	30.0	20.73	1.03	639.3
				Double, Clear	W	1.5	3.5	6.0	20.73	1.07	132.6
				Double, Clear	N	1.5	3.5	9.0	24.58	1.01	222.8
				Double, Clear	E	1.5	3.5	9.0	18.79	1.09	185.0
				Double, Clear	E	1.5	5.5	45.0	18.79	1.04	880.6
				As-Built Total:				**240.0**			**7026.6**

WALL TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM =	Points
Adjacent	236.0	3.60	849.6	Concrete, Int Insul, Exterior	10.0	1316.0	3.40	4474.4
Exterior	1316.0	3.70	4869.2	Frame, Wood, Adjacent	13.0	236.0	3.30	778.8
Base Total:	**1552.0**		**5718.8**	**As-Built Total:**		**1552.0**		**5253.2**

DOOR TYPES	Area X	BWPM =	Points	Type	Area X	WPM =	Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	20.0	8.40	168.0
Exterior	20.0	8.40	168.0	Adjacent Insulated	20.0	8.00	160.0
Base Total:	**40.0**		**328.0**	**As-Built Total:**	**40.0**		**328.0**

CEILING TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	1796.0	2.05	3681.8	Under Attic	30.0	1796.0	2.05 X 1.00	3681.8
Base Total:	**1796.0**		**3681.8**	**As-Built Total:**		**1796.0**		**3681.8**

FLOOR TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM =	Points
Slab	229.0(p)	8.9	2038.1	Slab-On-Grade Edge Insulation	0.0	229.0(p	18.80	4305.2
Raised	0.0	0.00	0.0					
Base Total:			**2038.1**	**As-Built Total:**		**229.0**		**4305.2**

INFILTRATION	Area X	BWPM =	Points	Area X	WPM =	Points
	1796.0	-0.59	-1059.6	1796.0	-0.59	-1059.6

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 75, Sub: Emerald Lakes, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**14825.6**	**Winter As-Built Points:**					**19535.1**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 39000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
14825.6	**0.6274**	**9301.6**	19535.1 **19535.1**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.487 **0.487**	1.000 **1.000**	11059.8 **11059.8**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 75, Sub: Emerald Lakes, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3	2635.00	7905.0		40.0	0.93	3	1.00	2606.67	1.00	7820.0
				As-Built Total:						**7820.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
9371	**9302**	**7905**	**26577**	**7338**	**11060**	**7820**	**26217**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 75, Sub: Emerald Lakes, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.5

The higher the score, the more efficient the home.

Fodor Residence, Lot: 75, Sub: Emerald Lakes, Plat: , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 39.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 10.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1796 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default) 240.0 ft²		a. Electric Heat Pump	Cap: 39.0 kBtu/hr
	b. SHGC:				HSPF: 7.00
	(or Clear or Tint DEFAULT)	7b. (Clear) 240.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 229.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Concrete, Int Insul, Exterior	R=10.0, 1316.0 ft²			EF: 0.93
	b. Frame, Wood, Adjacent	R=13.0, 236.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1796.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: 7-18-06

Address of New Home: 162 nw lakeside ct City/FL Zip: Lake City, FL 32055

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

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

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

June 9, 2006

Richard Keen
1256 S. W. County Road 240
Lake City, Florida 32055

Reference: Proposed Residence
Emerald Lakes Estates, Unit 2, Lot 75
Columbia County, Florida
Cal-Tech Project No. 06-372

Dear Mr. Keen,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 75, unit 2 of Emerald Lakes Estates in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting a finished floor elevation.

Based upon the U. S. Coast and Geodetic Survey marker "BP19" located near the intersection of U. S. 90 and Brown Road, the elevation of the roadway centerline adjacent the proposed building site is approximately 142.6 feet. The ground surface elevation at the center of the building site is approximately 139.8 feet. We understand the finished floor will be about 1.5 feet above the ground surface elevation at the center of the site or at an elevation of approximately 141.3 feet. This places the finished floor elevation about 1.3 feet below the elevation of the centerline of the adjacent roadway.

Columbia County regulations require the finished floor of a new residence to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the FEMA flood map for Columbia County, a zone "A" flood area is located immediately south of the proposed building site. For this zone "A" flood area no base flood elevation has been established; however, based upon the flood area delineated by the flood map and the USGS topographical survey, the flood elevation for this flood area is estimated to be about 131 feet. Other flood areas are also within about 1 mile of the site; however, the flood elevations in these areas are estimated to be no more than about 115 feet.

Given that the proposed finished floor elevation is roughly 10 feet above the estimated local flood elevation, it is our opinion elevating the finished floor to 1 foot above the adjacent roadway will not be required. However, we recommend the finished floor elevation be selected and/or the site be graded such that the finished floor is a

minimum of 12 inches above the finished surface grade at the perimeter of the residence. With suitable site grading to provide separation between the finished floor and the surrounding surface grade, a finished floor elevation of 140.0 feet or more should be sufficient to substantially reduce the likelihood of flooding at the site.

For reference an orange dot is painted in the centerline of the roadway adjacent the northeast corner of the lot. The elevation of this point in the roadway is approximately 145.2 feet.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / CEO

John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer
6/12/06
5262

Columbia County Property Appraiser

DB Last Updated: 6/19/2006

Parcel: 28-3S-16-02372-275

2006 Proposed Values

Tax Record | Property Card | Interactive GIS Map | Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	FODOR STEVE JR & SHIRLEY A
Site Address	EMERALD LAKES
Mailing Address	1619 EVERGREEN ST SEBRING, FL 33870
Description	LOT 75 EMERALD LAKES PHASE 2. WD 1058-429.

Use Desc. (code)	VACANT (000000)
Neighborhood	28316.05
Tax District	2
UD Codes	MKTA06
Market Area	06
Total Land Area	0.560 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	$25,500.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$25,500.00

Just Value	$25,500.00
Class Value	$0.00
Assessed Value	$25,500.00
Exempt Value	$0.00
Total Taxable Value	$25,500.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
9/7/2005	1058/429	WD	V	U	08	$19,500.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (.560AC)	1.00/1.00/1.00/1.00	$25,500.00	$25,500.00

Columbia County Property Appraiser — DB Last Updated: 6/19/2006

1 of 1

Disclaimer

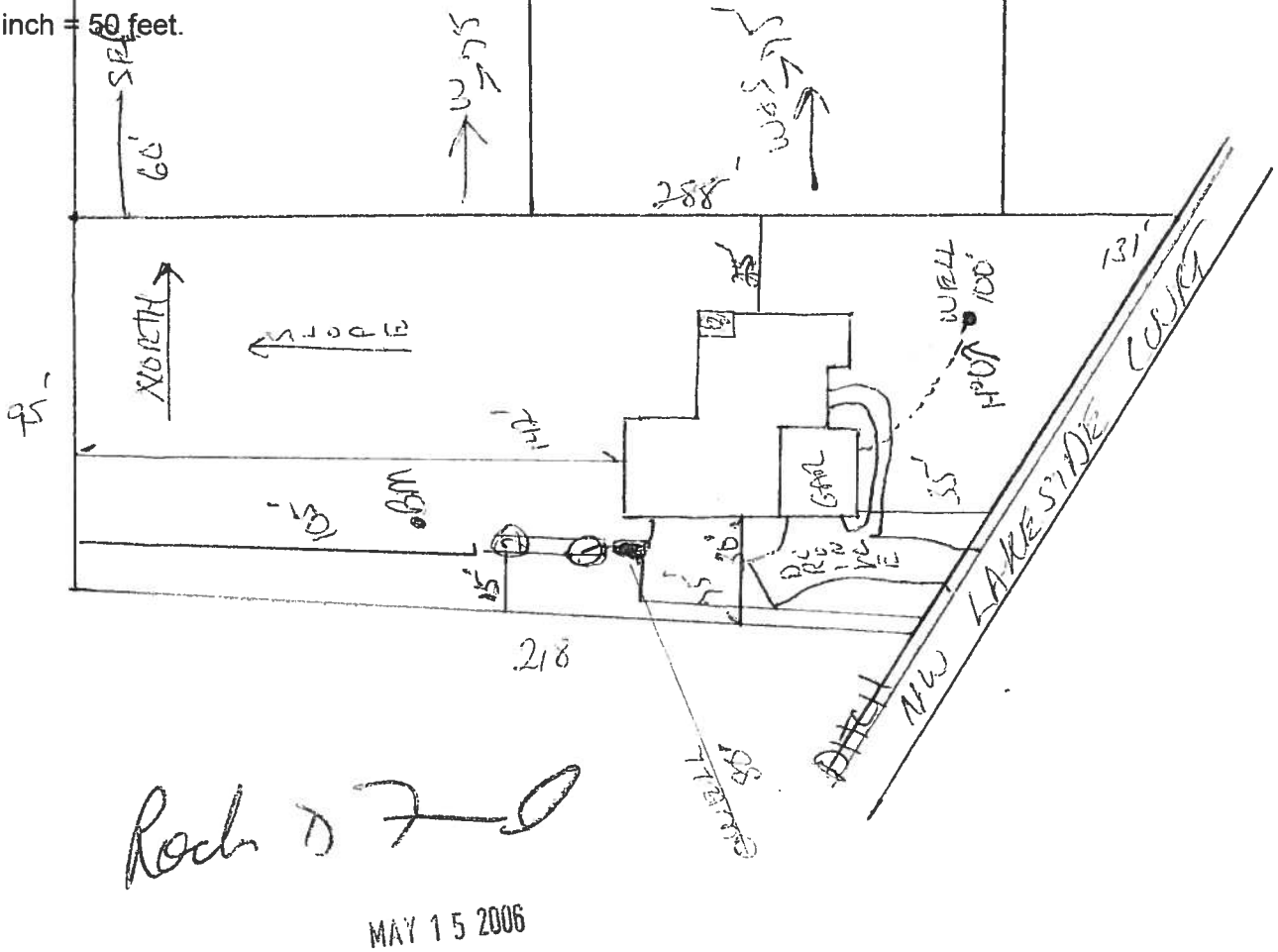
This information was derived from data which was compiled by the Columbia County Property Appraiser's Office solely for the government purpose of property assessment. The information shown is a **work in progress** and should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's Office. The assessed values are **NOT CERTIFIED** values and therefore are subject to change before finalized for ad-valorem assessment purposes.

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

Permit Application Number Oe-0489N

PART II - SITEPLAN

Scale: 1 inch = 50 feet.



Rock D 7—0

MAY 15 2006

Notes: _____

Site Plan submitted by: Rock D 7—0 MASTER CONTRACTOR

Plan Approved_____ Not Approved_____ Date 5/10/06

By _____ Columbia County Health Department

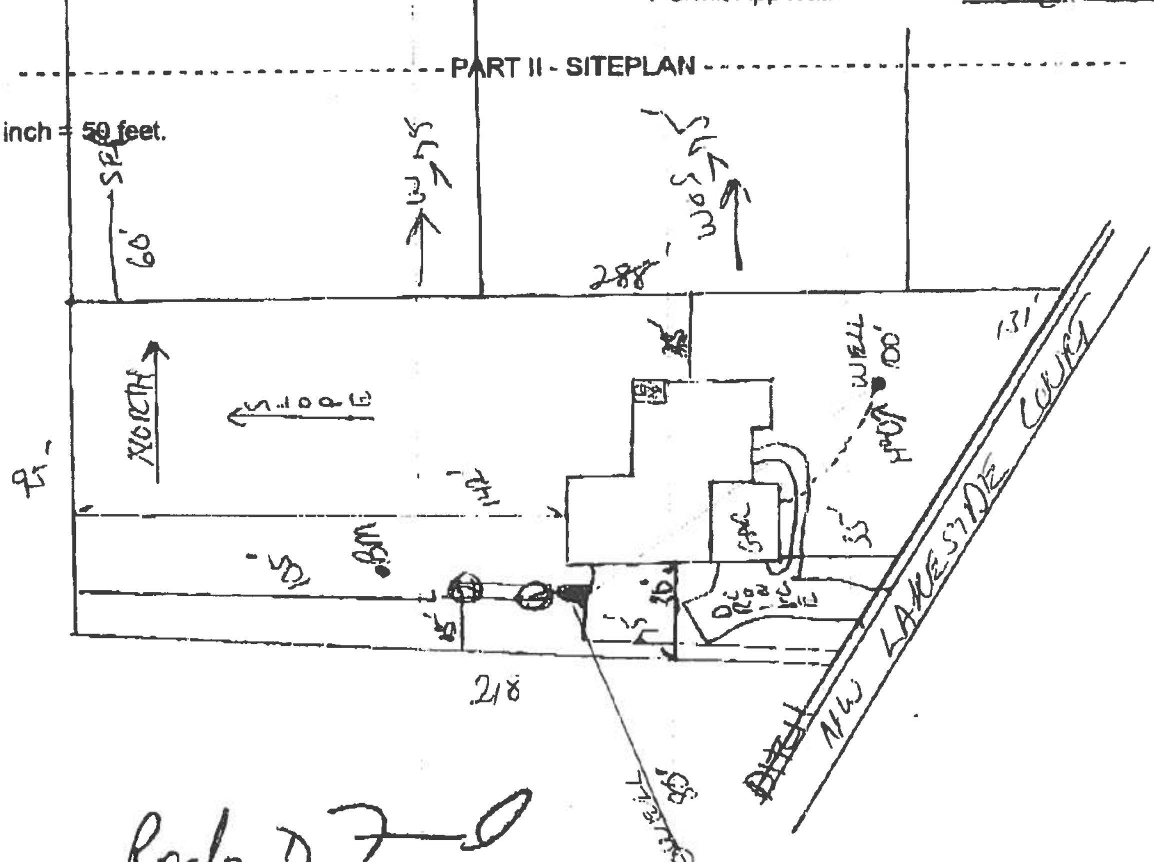
ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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

Permit Application Number 06-0489N

PART II - SITEPLAN

Scale: 1 inch = 50 feet.



Rock D 7-0

MAY 15 2006

Notes: ______

Site Plan submitted by: Rock D 7-0 MASTER CONTRACTOR

Plan Approved______ Not Approved______ Date 5/17/06

By ______ Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4016 which may be used)
(Stock Number: 5744-002-4015-6)

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001167

DATE 08/02/2006 PARCEL ID # 28-3S-16-02372-275

APPLICANT JAMES H. "JIMMY" JOHNSTON PHONE 386.365.5999

ADDRESS 650 SW MAIN BLVD LAKE CITY FL 32055

OWNER STEVE & SHIRLEY FODOR PHONE

ADDRESS 162 NW LAKESIDE COURT LAKE CITY FL 32055

CONTRACTOR JAMES H. JOHNSTON PHONE 365.5999

LOCATION OF PROPERTY 90-WTO BROWN RD,TR TO EMERALD LAKE DRIVE,TL TO ZACK DRIVE,TR TO LAKESIDE COURT,TL AND IT'S THE 1ST. PLACE ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT EMERALD LAKES 75 2

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid

FROM : FAX NO. : Jul. 18 2006 05:00PM P1

Pax 752-0078

RON E. BIAS
WELL DRILLING

317 SW Brecken Ridge • Fort White, FL 32038
(386) 497-1045 • Mobile: (386) 364-9233 • Fax: (386) 497-1045

Jim Johnson

Name: Keen No. ____________

Date: 7-18-06

Address: ____________

Emerald

Phone: ____________

DESCRIPTION: Dig 4" deep well down to 100
20 GPM
1 - Hp Sub pump.
80+ Gallon capture tank
Constant pressure
1¼ drop Gate Valve Back Flow
Sewer & Permit
STATE SPECS.

Total: ____________

Deposit: ____________

Balance: ____________

Date Wanted: ____________

Authorized By: Ron E Bias

Received By: ____________

Architectural Testing

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

Rendered to:

MI WINDOWS AND DOORS, INC

SERIES/MODEL: 420/430/440
PRODUCT TYPE: Aluminum Sliding Glass Door

	Summary of Results		
Title	**Test Specimen #1**	**Test Specimen #2**	**Test Specimen #3**
Rating	SGD-R25 182 x 96	SGD-R35 182 x 80	SGD-R40 144 x 96
Operating Force	17 lbf max.	17 lbf max.	N/A
Air Infiltration	0.23 cfm/ft^2	0.27 cfm/ft^2	N/A
Water Resistance Test Pressure	3.75/6.0/9.0 psf	6.0 psf	N/A
Uniform Load Deflection Test Pressure	±35.0 psf	±35.0 psf	+40.0 psf/-40.1 psf
Uniform Load Structural Test Pressure	±37.5 psf	±52.5 psf	+60.0 psf/-60.2 psf
Forced Entry Resistance	Grade 10	Grade 10	N/A

Reference should be made to ATI Report No. 52112.01-122-47 for complete test specimen description and data.

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

Architectural Testing

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

Rendered to:

MI WINDOWS AND DOORS, INC
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.:	52112.01-122-47
Revision 2:	09/14/05
Test Dates:	06/30/04
Through:	08/12/04
Report Date:	08/30/04
Expiration Date:	07/02/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on three Series/Model 420/430/440, aluminum sliding glass doors at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: SGD-R25 182 x 96; Test Specimen #2: SGD-R35 182 x 80; Test Specimen #3: SGD-R40 144 x 96. Test specimen description and results are reported herein.

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

Test Specimen Description:

Series/Model: 420/430/440

Product Type: Aluminum Sliding Glass Door

Test Specimen #1: SGD-R25 182 x 96 (XXO)

Overall Size: 15' 1-3/4" wide by 8' 0" high

Active Door Panel Size (2): 5' 0-1/2" wide by 7' 11" high

Fixed Door Panel Size: 5' 1" wide by 7' 11" high

Screen Size: 5' 0-3/8" wide by 7' 11" high

Overall Area: 121.2 ft^2

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520).

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

Test Specimen Description: (Continued)

Test Specimen #2: SGD-R35 182 x 80 (OXX)

Overall Size: 15' 1-3/4" wide by 6' 8" high

Active Door Panel Size (2): 5' 0-1/2" wide by 6' 7" high

Fixed Door Panel Size: 4' 8-7/8" wide by 6' 2-5/8" high

Screen Size: 5' 0-3/8" wide by 6' 7" high

Overall Area: 101 ft^2

Reinforcement: No reinforcement was utilized.

Test Specimen #3: SGD-R40 144 x 96 (OXO)

Overall Size: 12' 0" wide by 8' 0" high

Active Door Panel Size: 3' 8-1/4" wide by 7' 10-1/2" high

Fixed Door Panel Size (2): 3' 8-3/4" wide by 7' 6-1/2" high

Screen Size: 3' 11-1/2" wide by 7' 11-3/8" high

Overall Area: 96 ft^2

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520). The interlock utilized an aluminum reinforcement (Drawing #SECT4237).

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: All glazing consisted of a single sheet of 3/16" thick clear tempered glass that was channel glazed with a wrap around rubber gasket.

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.270" high polypile with center fin	2 Rows	Stiles
1/2" wide by 1" long polypile dust plug	2 Pieces	Corner of head, jamb, and top and bottom of panel retainer
0.187" backed by 0.250" high polypile with center fin	2 Rows	Top rail
0.187" backed by 0.350" high polypile with center fin	2 Rows	Bottom rail
0.187" backed by 0.230" high polypile with center fin	1 Row	Panel interlock, screen stiles

Frame Construction: The frame was constructed of extruded aluminum. Corners were coped, butted, sealed, and fastened with two #8 x 5/8" screws. An aluminum panel adaptor was added to the screen adaptor and secured with #6 x 3/8" pan head screws located 3-1/2" from the ends and 14" on center through the screen adaptor into the panel adaptor. The jambs utilized a panel jamb retainer on the fixed panels secured to the jambs with two #6 x 1/2" screws through the retainer into the jambs. The panels were placed in the retainer and secured to the frame with two #8 x 1/2" screws located through the retainers into the panels. Three panel jamb retainers were utilized to secure the fixed panels, located at panel top and bottom and one midspan. The fixed panels also utilized an aluminum sill retainer clip located at the sill. The sill utilized an optional aluminum sill extender.

Door Panel Construction: The door panels were constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw at the bottom and two #8 x 3/4" screws at the top.

Screen Construction: The screen was constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw and one #8 x 1" screw at the bottom and one #8 x 1" screw at the top.

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Locking handle	1	44" from active panel bottom
Roller assembly	2	3" from bottom rail ends
Screen locking handle	1	46" from screen bottom rail
Screen rollers	2	Corners of bottom rail

Drainage:

Description	Quantity	Location
Sloped sill	1	Sill
1/2" long drain off notches	6	Ends of vertical sill legs

Installation: The units were installed into a #2 Spruce-Pine-Fir wood test buck. The units were fastened to the test buck with two rows of #8 x 1-1/4" screws, 8" from each end and 23" on center. The exterior perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	24 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.23 cfm/ft^2	0.3 cfm/ft^2 max.

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

2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting rail) (Loads were held for 52 seconds)		
	15.0 psf (positive)	0.56"	See Note #2
	15.0 psf (negative)	0.57"	See Note #2

Note #2: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	22.5 psf (positive)	0.02"	0.30" max.
	22.5 psf (negative)	0.03"	0.30" max.
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
2.2.1.6.2	Deglazing Test per ASTM E 987 In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen) 3.75 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with 2-5/8" Dade County sill extension) 9.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	35.0 psf (positive)	2.98"	See Note #2
	35.0 psf (negative)	2.52"	See Note #2

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	37.5 psf (positive)	0.20"	0.36" max.
	37.5 psf (negative)	0.19"	0.36" max.
Test Specimen #2: SGD-R35 182 x 80 (OXX)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	21 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.27 cfm/ft^2	0.3 cfm/ft^2 max.

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

2.1.3	Water Resistance per ASTM E 547 (with and without screen) 2.86 psf	No leakage	No leakage
2.2.1.6.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #2: SGD-R35 182 x 80 (OXX) (Continued)			
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	35.0 psf (positive)	1.28"	See Note #2
	35.0 psf (negative)	1.33"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	52.5 psf (positive)	0.13"	0.30" max.
	52.5 psf (negative)	0.15"	0.30" max.
Test Specimen #3: SGD-R40 144 x 96 (OXO)			
Optional Performance			
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	40.0 psf (positive)	1.42"	See Note #2
	40.1 psf (negative)	1.28"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	60.0 psf (positive)	0.27"	0.37" max.
	60.2 psf (negative)	0.30"	0.37" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Mark A. Hess

Mark A. Hess
Technician

Digitally Signed by: Steven M. Urich

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

MH:vlm

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	08/30/04	N/A	Original report issue
1	09/13/04	Cover page	Switch Specimens 1 and 2 / Added 430/440 to Series/Model
1	09/13/04	Page 1 and 2	Switch Specimen 1 and 2 sizes Added 430/440 to Series/Model on Page 1
1	09/13/04	Pages 4 through 7	Switch Specimen 1 and 2 test results / Specimen 2 optional performance water resistance from 3.75 psf to 6.00 psf with sill riser.
2	09/14/05	Page 2	Corrected configuration of Test Specimen #3
2	09/14/05	Page 3	Added additional Weatherstripping

HomeTown Homes, LLC
License # 1328128
Jimmy Johnston
Richard Keen

650 SW Main Blvd.
Lake City, Fl 32025
Phone # (386)755-5500
Fax # (386) 752-0078

July 31, 2006

To: Columbia County Building Dept.

Attention: Joe Haltiwanger

RE: Lot # 75 Emerald Lakes

WALL DETAIL

8" X 16" Concrete block walls with a sheet of 1" Styrofoam over block walls and pressure treated 1" X 2", 16" on center. Pressure treated 1" X 4" over top of Styrofoam.

Thank You,

Jimmy Johnston

Product Approval

USER: Public User

Product Approval Menu > Product or Application Search > **Application List**

Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	MI Windo
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

Go to Page GO

FL#	Type	Manufacturer	Validat
FL5100	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL5104	New	MI Windows and Doors **Category:** Windows **Subcategory:** Double Hung	
FL5108	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL5418	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL5438	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL5447	New	MI Windows and Doors **Category:** Windows **Subcategory:** Double Hung	
FL5451	New	MI Windows and Doors **Category:** Windows **Subcategory:** Horizontal Slider	
FL5483-R1 History	Revision	MI Windows and Doors **Category:** Exterior Doors **Subcategory:** Sliding Exterior Door Assemblies	
FL5513	New	MI Windows and Doors **Category:** Windows	Steven

		Subcategory: Mullions	(717) 7
FL6023	New	MI Windows and Doors **Category:** Windows **Subcategory:** Casement	
FL6024	New	MI Windows and Doors **Category:** Windows **Subcategory:** Horizontal Slider	
FL6028	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL6029	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL6489	New	MI Windows and Doors **Category:** Windows **Subcategory:** Mullions	Steven (717) 7
FL6499	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL6501	New	MI Windows and Doors **Category:** Windows **Subcategory:** Double Hung	
FL6502	New	MI Windows and Doors **Category:** Windows **Subcategory:** Horizontal Slider	
FL6503	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL6679	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	

Go to Page GO!

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

24813

WILLIAM N. KITCHEN
PROFESSIONAL SURVEYOR AND MAPPER
152 N. MARION AVENUE
LAKE CITY, FLORIDA 32055
PHONE (386) 755-7786 FAX (386) 755-5506
E-MAIL BSSK@BELLSOUTH.NET

TO WHOM IT MAY IT CONCERN:

CO: FODOR/JOHNSTON CONSTRUCTION

RE: LOT 75, PHASE 2, EMERALD LAKE, PB 6, PG. 117-118, NO. 162 NW LAKESIDE CT., LAKE CITY, FL. 32055

I HEREBY CERTIFIY ,THE FINISH FLOOR ELEVATION OF FORM BOARDS, AT SAID LOT 75 IS 141.36 FEET. THE DESIGN GRADE FOR THIS SITE ACCORDING TO THE CAL-TECH IS 140.0. THIS MEET OR EXCEEDS THE DESIGN ELEVATION.

AUGUST 11, 2006

WILLIAM N. KITCHEN, P.S.M. 5490

William N. Kitchen

8-11-2006

24813

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
6919 Distribution Ave. S., Unit #5, Jacksonville, FL 32257 • Tel(904)262-4046 • Fax(904)262-4047
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 06-475
DATE TESTED: 8/10/06
DATE REPORTED: 8/11/06

PROJECT:	Richard Keen Residence, Lake City, FL
CLIENT:	Richard Keen, 1256 SW CR 240, 32025
GENERAL CONTRACTOR:	Richard Keen
EARTHWORK CONTRACTOR:	Richard Keen
INSPECTOR:	Jimmie Willis

ASTM METHOD	SOIL USE
(D-2922) Nuclear	BUILDING FILL

SPECIFICATION REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft³)	MOISTURE PERCENT	DRY DENSITY (lb/ft³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1		10' E x 3' W of SW Corner	0-12"	118.3	6.8	110.8	PIT	107.0	103.5%
2		5' S x 12' E of NW Corner	0-12"	110.4	2.8	107.4	PIT	107.0	100.4%
3		Center of Slab	0-12"	117.5	5.0	111.9	PIT	107.0	104.6%
4		20' N x 6' W of SE Corner	0-12"	124.1	8.8	114.1	PIT	107.0	106.6%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft³)	OPT. MOIST.	TYPE
PIT		Tan Sand, Trace of Clayey Sand	107.0	11.2	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer

Linda M. Creamer
President - CEO

Reviewed By:

Date: 8/11/06
Florida Registration No: 52612

sc

Notice of Treatment

12192

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: ______
City ______ Phone ______

Site Location: Subdivision ______
Lot # ______ Block# ______ Permit # ______
Address ______

Product used	**Active Ingredient**	**% Concentration**
❑ Premise	Imidacloprid	0.1%
❑ Termidor	Fipronil	0.12%
❑ Bora Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ❑ Soil ❑ Wood

Area Treated	**Square feet**	**Linear feet**	**Gallons Applied**
Dwelling	2659	601	4
Holes in Slab			4 Gal
			Termidor

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

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

11/01/06	1345	
Date	Time	Print Technician's Name

Remarks: ______

Applicator - White **Permit File** - Canary **Permit Holder** - Pink

10/05 ©

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 28-3S-16-02372-275 **Building permit No.** 000024813

Use Classification SFD/UTILITY **Fire:** 39.06

Permit Holder JAMES H. JOHNSTON **Waste:** 117.25

Owner of Building STEVE & SHIRLEY FODOR **Total:** 156.31

Location: 162 NW LAKESIDE COURT(EMERALD LAKES,LOT 75)

Date: 03/19/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)