

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0609-92 Date Received 9-29-06 By LH Permit # 1236/25113
 Application Approved by - Zoning Official BLK Date 06.10.06 Plans Examiner OK 5TH Date 10-12-06
 Flood Zone X Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. L-1 DEN.
 Comments EH

Applicants Name Linda Roder for Blake Construction Co. of N. Fla Phone 386 754 5810
 Address 291 SW Sister's Welcome Rd Suite 102
 Owners Name Dilip & Priya Kapadia Phone 386 754 5810
 911 Address 330 SW Ridgeview PL Lake City FL 32024
 Contractors Name Blake Lunde Phone (386) 754 5810
 Address 291 SW Sister's Welcome Rd. Suite 102
 Fee Simple Owner Name & Address Dilip & Priya Kapadia 3340 W Hwy Lake City, FL 32055
 Bonding Co. Name & Address NA
 Architect/Engineer Name & Address January Jeernigan 119 SW John Street Live Oak, FL 32064
 Mortgage Lenders Name & Address First Federal Columbia County Bank
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 33-35-16-02434-111 Estimated Cost of Construction 370,000
 Subdivision Name Cypress Lakes Phase II Lot 11 Block Unit Phase 2
 Driving Directions 90 W. TL on Sweetwater Dr. 6th lot down on L on Ridgeview PL
TR Ridgeview - 6th on left

Type of Construction SFR Number of Existing Dwellings on Property 0
 Total Acreage .959 Lot Size Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 45' Side 77.5' Side 77.5' Rear 104'
 Total Building Height 23' Number of Stories 2 Heated Floor Area 3298 Roof Pitch 10-12
TOTAL 4 331

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 COMMENCEMENT 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) Linda R. Roder

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 20 day of October
 Personally known Linda R. Roder or Produced Identification Commission # DD303275
 Expires: Mar 24, 2008
 Bonded Thru
 Atlantic Bonding Co., Inc.

Contractor Signature

Contractors License Number RB 0067618

Competency Card Number

NOTARY STAMP/SEAL

Notary Signature

Prepared By + Return to:
 MATTHEW D. P.
 Sierra Title, LLC
 619 SW Baya Dr., Ste 102
 Lake City, FL 32025
 #06-0300

Inst: 2006023959 Date: 10/05/2006 Time: 14:03

DC, P. DeWitt Cason, Columbia County 8:1099 P. 1083

LOAN NUMBER: 7011012768

NOTICE OF COMMENCEMENT
 STATE OF Florida COUNTY OF Columbia

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

1. Description of property: LOT 11, PHASE 2, CYPRESS LAKE, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 5, PAGE(S) 32 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.
 LOT 11 CYPRESS LAKE SUBDIVISION, LAKE CITY, FL 32025

2. General description of improvements: Single Family Residence

3. Owner information:

- a. Name(s): DILIP KAPADIA and PRIYAVANDA KAPADIA
 b. Address: 3340 US HWY 90 W, LAKE CITY, FL 32055
 c. Interest in property: Fee Simple
 d. Name and address of fee simple titleholder (if other than Owner): N/A

4. Contractor: BLAKE CONSTRUCTION COMPANY
 291 SW SISTERS WELCOME ROAD SUITE 102, LAKE CITY, FL 32025

5. Surety

- a. Name and address: None
 b. The amount of bond: N/A

6. Lender COAST BANK OF FLORIDA - P. O. BOX 150, BRADENTON, FLORIDA 34206-0150

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7, Florida Statutes: N/A

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

**COAST BANK OF FLORIDA - Attn: Wanda M. Farr - P. O. Box 150, Bradenton, Florida 34206-0150 (941-345-1473)

9. Expiration date of notice of commencement (the expiration date is 2 year from the date of recording unless a different date is specified)

Dilip Kapadia 10-05-06
 Borrower: DILIP KAPADIA

Priyavanda Kapadia 10-05-06
 Borrower: PRIYAVANDA KAPADIA

Borrower:

STATE OF Florida Columbia

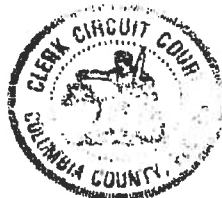
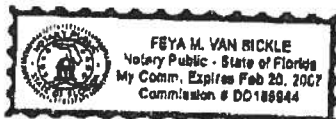
Borrower:

COUNTY SS:

The foregoing instrument was acknowledged before me this 5th day of October, 2006
 by DILIP KAPADIA and PRIYAVANDA KAPADIA who is personally known to me or has produced Two Florida Power of Attorneys
 as identification and who did NOT take an oath.
 My Commission expires 02-20-07

Notary Public

Fey M. Van Bickle
 Fey M. Van Bickle



STATE OF FLORIDA, COUNTY OF COLUMBIA
 I HEREBY CERTIFY that the above is a true copy of the original filed in my office
 P. DeWITT CASON, CLERK OF COURTS

By:

10/06/06

10f2

Prepared by and Return to:
Katie Lilly
Gateway Title Agency, LLC
4255 SW Cambridge Glen
Lake City, Florida 32024
File Number: 34590GW
Parcel I.D. Number: R02434-111

Return To Keystone Title Agency, Inc.

9735 U.S. Hwy. 19
Port Richey, FL 34668

File # 34590GW

Inst: 2005023394 Date: 09/22/2005 Time: 10:51

Doc Stamp-Deed : 511.00

ML DC, P. Dewitt Cason, Columbia County B: 1059 P: 811

incidental to the issuance of a Title Insurance Policy

General Warranty Deed

Parcel ID Number: R02434-111

Made this 13th September 2005 A.D. By Norman K. Helms and Ruth Ann Helms, husband and wife, ✓
whose mailing address is: 344 NW Spring Hollow Blvd., Lake City, FL 32055, hereinafter called the grantor,
to Dilip Kapadia, and Priya Kapadia, husband and wife, whose post office address is: 3340 W. US HWY 90,
Lake City, FL 32055, hereinafter called the grantee: *a/k/a Priya D. Kapadia

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of **Seventy Three Thousand dollars & no cents, (\$73,000.00)** and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 11, Phase 2, Cypress Lake, a subdivision according to the plat thereof as recorded in Plat Book 6, Page(s) 32, of the Public Records of Columbia County, Florida.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Subject, however, to all covenants, conditions, restrictions, reservations, limitations, easements and to all applicable zoning ordinances and/or restrictions and prohibitions imposed by governmental authorities, if any..

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

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2005.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

REQUIRES TWO DIFFERENT WITNESSES

Witness #1 signature

Doris M Drake

Print Witness #2 signature

Witness #2 signature

Kathryn Lilly

Print Witness #2 signature

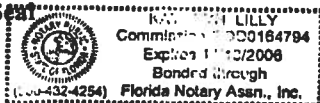
Norman K Helms (Seal)
Norman K. Helms

Ruth Ann Helms (Seal)
Ruth Ann Helms

State of FL
County of Columbia

The foregoing instrument was acknowledged before me this 13th September 2005, by Norman K. Helms and Ruth Ann Helms, husband and wife, who has produced a drivers license as identification.

Notary Seal



Kathryn Lilly
Notary Public
My Commission Expires: 11/13/06

25113

Notice of Treatment 12336

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: Bow Ave

City L.C. Phone 727 1703

Site Location: Subdivision Cypress Lakes

Lot # 11 Block# 1 Permit # 25113

Address 330 SW Ridgeview PL

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
<u>Dwelling</u>	<u>2770</u>	<u>1600</u>	<u>5</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

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 _____.

2/18/05 1600 Frost

Date Time Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

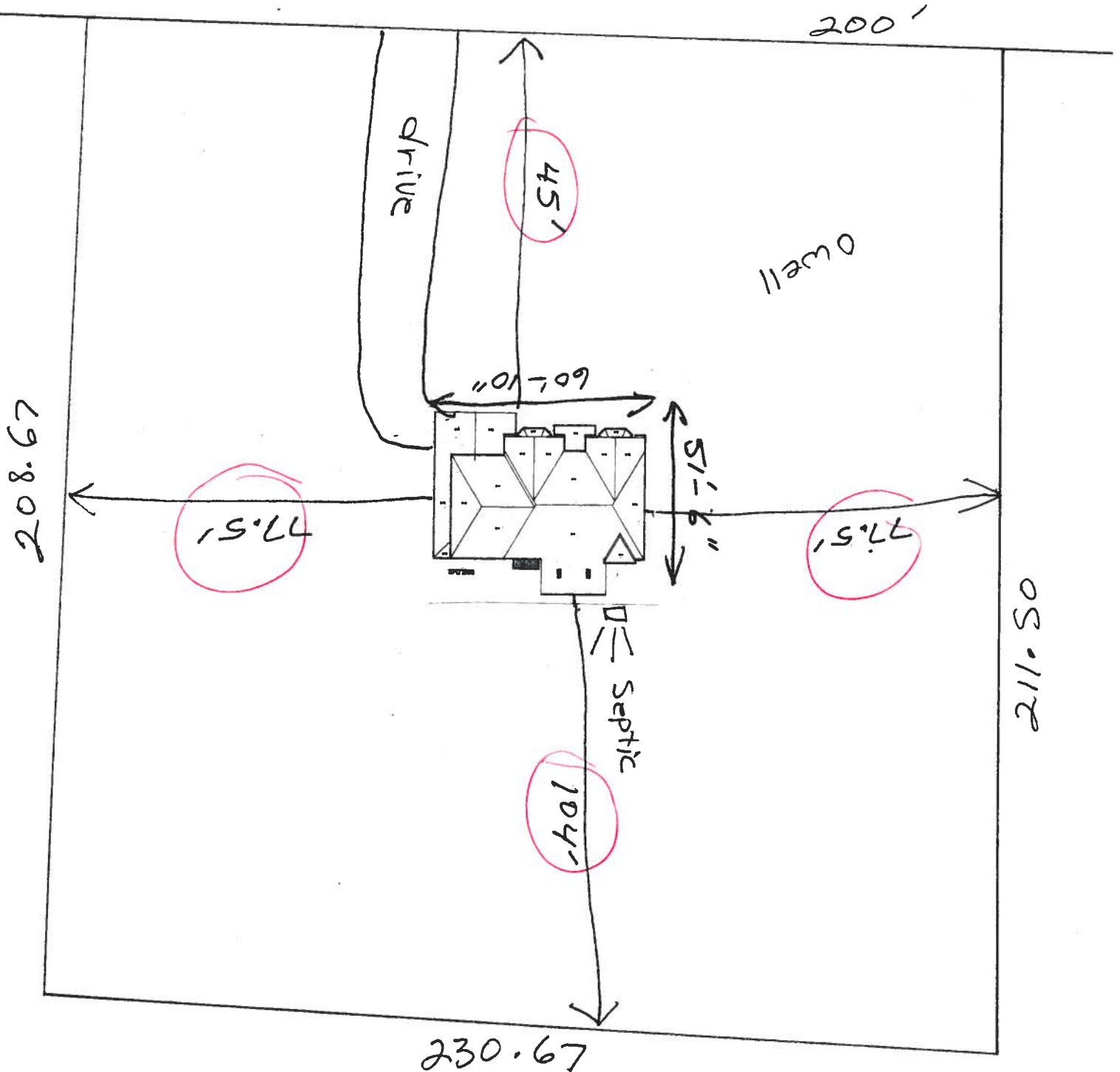
10/05 ©

Lot 11 Cypress Lakes Ph2

Dilip + Priyad Kapadia

33-35-16-02434-111

S.W. Sweet water Dr.



Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 8-30-06

Lot 11 Ph2 Cypress Lakes

(Address of Treatment or Lot/Block of Treatment)

Lake City

City

Florida Pest Control & Chemical Co.

www.flapest.com

Product to be used: Bora-Care Termiticide (Wood Treatment)

Chemical to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction. Bora-Care Termiticide application shall be applied according to EPA registered label directions as stated in the Florida Building Code Section 1861.1.8

(Information to be provided to local building code offices prior to concrete foundation installation.)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **Sky Designs - Dilip & Priya Kapadia**
Address:
City, State:
Owner: **Dilip & Priya Kapadia**
Climate Zone: **North**

Builder: **Blake Const.**
Permitting Office: **Columbia**
Permit Number: **25113**
Jurisdiction Number: **221000**

1. New construction or existing	New	—
2. Single family or multi-family	Single family	—
3. Number of units, if multi-family	1	—
4. Number of Bedrooms	4	—
5. Is this a worst case?	No	—
6. Conditioned floor area (ft²)	3284 ft²	—
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		
a. U-factor:	Description	Area
(or Single or Double DEFAULT)	7a. (Dble Default)	519.0 ft²
b. SHGC:		
(or Clear or Tint DEFAULT)	7b. (Clear)	519.0 ft²
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 224.0(p) ft	—
b. Raised Wood, Stem Wall	R=3.0, 172.0ft²	—
c. N A		—
9. Wall types		
a. Face Brick, Wood, Exterior	R=13.0, 3175.0 ft²	—
b. N A		—
c. N A		—
d. N A		—
e. N A		—
10. Ceiling types		
a. Under Attic	R=30.0, 1460.0 ft²	—
b. N A		—
c. N A		—
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 45.0 ft	—
b. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 45.0 ft	—
12. Cooling systems		
a. Central Unit	Cap: 40.0 kBtu hr	—
	SEER: 13.00	—
b. Central Unit	Cap: 35.0 kBtu hr	—
	SEER: 13.00	—
c. N A		—
13. Heating systems		
a. Electric Heat Pump	Cap: 40.0 kBtu hr	—
	HSPF: 8.00	—
b. Electric Heat Pump	Cap: 35.0 kBtu hr	—
	HSPF: 7.70	—
c. N A		—
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	—
	EF: 0.92	—
b. N A		—
c. Conservation credits		—
(HR-Heat recovery, Solar		
DHP-Dedicated heat pump)		
15. HVAC credits		—
(CF-Ceiling fan, CV-Cross ventilation,		
HF-Whole house fan,		
PT-Programmable Thermostat,		
MZ-C-Multizone cooling,		
MZ-H-Multizone heating)		

Glass/Floor Area: 0.16

Total as-built points: 41704

Total base points: 44916

PASS

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

PREPARED BY: *7/20/06*

DATE: *7/20/06*

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

OWNER/AGENT: *7/20/06*

DATE: *8-30-06*

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.

Residential Window Diversity

MidSummer

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

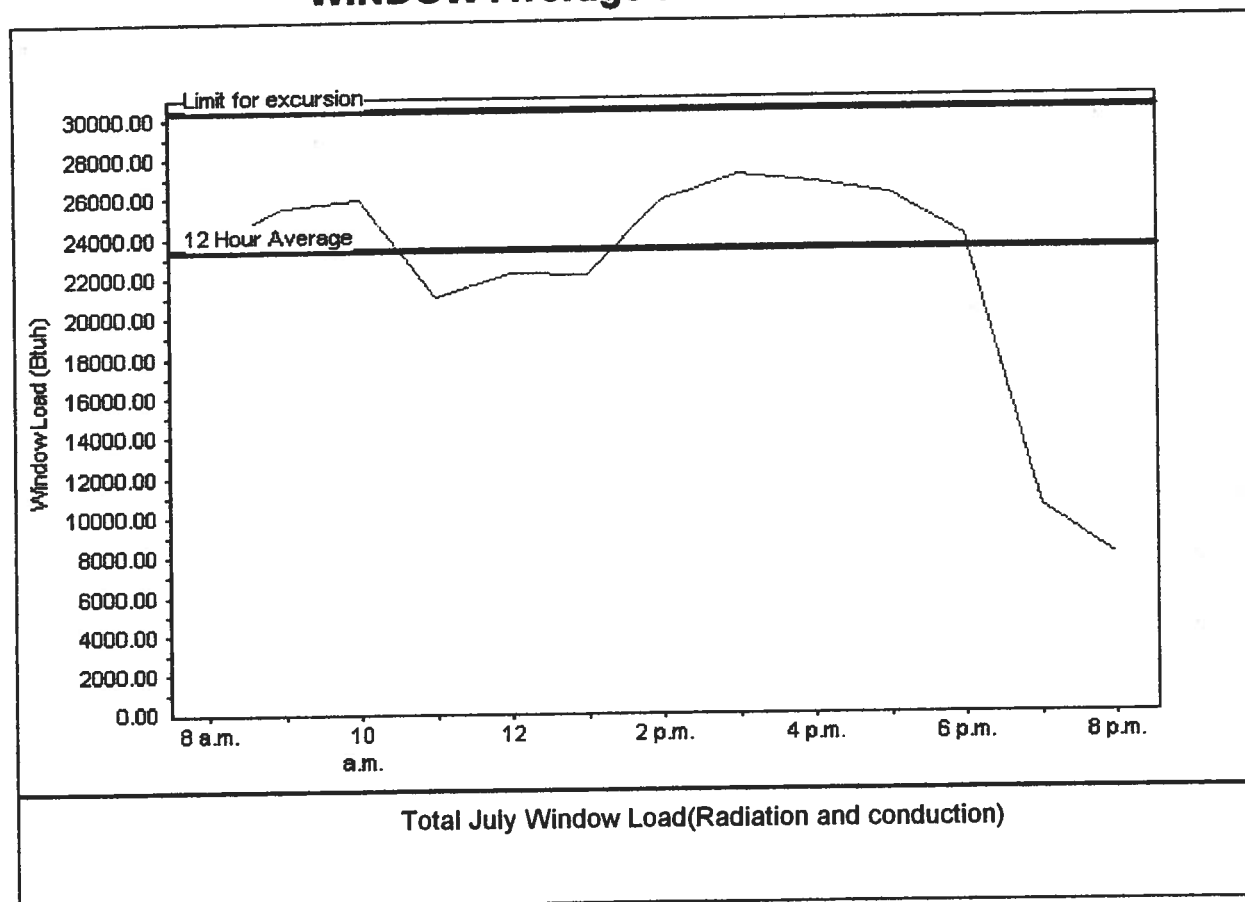
Code Only
Professional Version
Climate: North

7/20/2006

Weather data for: Tallahassee - Defaults

Summer design temperature	93 F	Average window load for July	23377 Btu
Summer setpoint	75 F	Peak window load for July	27085 Btu
Summer temperature difference	18 F	Excursion limit(130% of Ave.)	30390 Btu
Latitude	30 North	Window excursion (July)	None

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: Y. Nopler

DATE: 7/20/06

EnergyGauge® FLRCPB v4.21



System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

Reference City: Tallahassee (Defaults) Summer Temperature Difference: 18.0 F

7/20/2006

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, B-M, N,N	E	1.5ft.	15ft.	30.0	0.0	30.0	22	59	1766 Btuh	
2	2, Clear, 0.87, B-M, N,N	NE	1.5ft.	14ft.	30.0	0.0	30.0	22	44	1327 Btuh	
3	2, Clear, 0.87, B-M, N,N	SE	1.5ft.	14ft.	30.0	0.0	30.0	22	47	1421 Btuh	
Window Total						90 (sqft)			4514 Btuh		
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
	Face Brick - Wood - Ext	13.0/0.09		3175.0			1.3				
Wall Total						3175 (sqft)			4227 Btuh	4227 Btuh	
Doors	Type				Area (sqft)		HTM		Load		
	Insulated - Exterior				20.4		10.1				
1	Insulated - Exterior <th colspan="3"></th> <th colspan="2">81.6</th> <th colspan="2">10.1</th> <td>207 Btuh</td> <td>828 Btuh</td>				81.6		10.1		207 Btuh	828 Btuh	
2	Insulated - Exterior <th colspan="3"></th> <th colspan="2">34.0</th> <th colspan="2">10.1</th> <td>345 Btuh</td> <td>345 Btuh</td>				34.0		10.1		345 Btuh	345 Btuh	
3	Insulated - Exterior <th colspan="3"></th> <th colspan="2">136 (sqft)</th> <th colspan="2"></th> <td>1380 Btuh</td> <td>1380 Btuh</td>				136 (sqft)				1380 Btuh	1380 Btuh	
Door Total											
Floors	Type	R-Value		Size			HTM		Load		
	Slab On Grade	0.0		224 (ft(p))			0.0				
1	Floor Total				224.0 (sqft)					0 Btuh	0 Btuh
Zone Envelope Subtotal:										10121 Btuh	
Infiltration	Type	ACH		Volume(cuft)		wall area(sqft)		CFM=		Load	
	SensibleNatural	0.15		17146		3175		72.1			
										1424 Btuh	
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	0		X 230			+			3400 Btuh		
Duct load										177 Btuh	
Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.012)											
Sensible Zone Load										15123 Btuh	

Summary Energy Code Results

Residential Whole Building Performance Method A

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

Building Loads			
Base		As-Built	
Summer:	45116 points	Summer:	46098 points
Winter:	24115 points	Winter:	26703 points
Hot Water:	9697 points	Hot Water:	9697 points
Total:	78928 points	Total:	82498 points

Energy Use			
Base		As-Built	
Cooling:	19247 points	Cooling:	15963 points
Heating:	15130 points	Heating:	15201 points
Hot Water:	10540 points	Hot Water:	10540 points
Total:	44916 points	Total:	41704 points

PASS
e-Ratio: 0.93

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

Component Loads for Zone #2: NewName

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, B-M, N,N	N	1.5ft.	3ft.	12.0	0.0	12.0	22	22	269 Btuh
2	2, Clear, 0.87, B-M, N,N	E	1.5ft.	6ft.	30.0	1.5	28.5	22	59	1712 Btuh
3	2, Clear, 0.87, B-M, N,N	E	1.5ft.	5ft.	24.0	1.5	22.5	22	59	1359 Btuh
4	2, Clear, 0.87, B-M, N,N	N	1.5ft.	3ft.	4.0	0.0	4.0	22	22	90 Btuh
5	2, Clear, 0.87, B-M, N,N	NE	1.5ft.	6ft.	30.0	0.0	30.0	22	44	1327 Btuh
6	2, Clear, 0.87, B-M, N,N	SE	1.5ft.	6ft.	30.0	8.7	21.3	22	47	1205 Btuh
7	2, Clear, 0.87, B-M, N,N	S	1.5ft.	15ft.	60.0	0.0	60.0	22	27	1639 Btuh
8	2, Clear, 0.87, B-M, N,N	S	1.5ft.	12ft.	6.0	0.0	6.0	22	27	164 Btuh
9	2, Clear, 0.87, B-M, N,N	S	1.5ft.	6ft.	60.0	60.0	0.0	22	27	1345 Btuh
10	2, Clear, 0.87, B-M, N,N	S	1.5ft.	4ft.	6.0	6.0	0.0	22	27	134 Btuh
11	2, Clear, 0.87, B-M, N,N	W	1.5ft.	6ft.	25.0	1.2	23.8	22	59	1427 Btuh
12	2, Clear, 0.87, B-M, N,N	S	1.5ft.	6ft.	30.0	30.0	0.0	22	27	672 Btuh
13	2, Clear, 0.87, B-M, N,N	W	1.5ft.	15ft.	25.0	0.0	25.0	22	59	1472 Btuh
14	2, Clear, 0.87, B-M, N,N	W	1.5ft.	17ft.	42.0	0.0	42.0	22	59	2472 Btuh
15	2, Clear, 0.87, B-M, N,N	W	1.5ft.	13ft.	9.0	0.0	9.0	22	59	530 Btuh
16	2, Clear, 0.87, B-M, N,N	S	1.5ft.	16ft.	36.0	0.0	36.0	22	27	983 Btuh
Window Total					429 (sqft)					16800 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Exterior				16.3			10.1		166 Btuh
2	Insulated - Exterior				40.8			10.1		414 Btuh
Door Total					57 (sqft)					580 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Unvented Attic/DarkShingle		30.0		1460.0			2.3		3394 Btuh
Ceiling Total					1460 (sqft)					3394 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Raised Wood - Stern Wall		3.0		172 (sqft)			0.4		76 Btuh
Floor Total					172.0 (sqft)					76 Btuh
Zone Envelope Subtotal:										20850 Btuh
Infiltration	Type		ACH		Volume(cuft) wall area(sqft)			CFM=		Load
SensibleNatural			0.15		11680 3175			0.0		0 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			0		X 230 +			3400		3400 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.007)									159 Btuh
Sensible Zone Load										24409 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

SYSTEM GROUPS (BLOCK LOADS)

Cooling Loads For System(s): 1 Serving Zones: 1	Sensible Envelope Load	14946 Btuh
	Window Excursion Not selected.	
	Sensible Duct Load (duct gain multiplier of 0.012)	177 Btuh
	Sensible ventilation	0 Btuh
	Zone Sensible gain	15123 Btuh
	Latent infiltration/ventilation gain	2250 Btuh
	Latent occupant gain	0 Btuh
	Latent duct gain	42 Btuh
	Latent other gain	0 Btuh
	Total block load	17415 Btuh

Cooling Loads For System(s): 2 Serving Zones: 2	Sensible Envelope Load	24250 Btuh
	Window Excursion Not selected.	
	Sensible Duct Load (duct gain multiplier of 0.007)	159 Btuh
	Sensible ventilation	0 Btuh
	Zone Sensible gain	24409 Btuh
	Latent infiltration/ventilation gain	0 Btuh
	Latent occupant gain	0 Btuh
	Latent duct gain	42 Btuh
	Latent other gain	0 Btuh
	Total block load	24452 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	39196 Btuh
	Sensible Duct Load	337 Btuh
	Total Sensible Zone Loads	39532 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	39532 Btuh
	Latent infiltration gain (for 46 gr. humidity difference)	2250 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	74 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2325 Btuh
	TOTAL GAIN	41857 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 - Whole House Component Details

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

Reference City: Tallahassee (Defaults)

Summer Temperature Difference: 18.0 F

7/20/2006

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, B-M, N,N	N	1.5ft.	3ft.	12.0	0.0	12.0	22	22	269 Btuh	
2	2, Clear, 0.87, B-M, N,N	E	1.5ft.	15ft.	30.0	0.0	30.0	22	59	1766 Btuh	
3	2, Clear, 0.87, B-M, N,N	E	1.5ft.	6ft.	30.0	1.5	28.5	22	59	1712 Btuh	
4	2, Clear, 0.87, B-M, N,N	E	1.5ft.	5ft.	24.0	1.5	22.5	22	59	1359 Btuh	
5	2, Clear, 0.87, B-M, N,N	N	1.5ft.	3ft.	4.0	0.0	4.0	22	22	90 Btuh	
6	2, Clear, 0.87, B-M, N,N	NE	1.5ft.	14ft.	30.0	0.0	30.0	22	44	1327 Btuh	
7	2, Clear, 0.87, B-M, N,N	SE	1.5ft.	14ft.	30.0	0.0	30.0	22	47	1421 Btuh	
8	2, Clear, 0.87, B-M, N,N	NE	1.5ft.	6ft.	30.0	0.0	30.0	22	44	1327 Btuh	
9	2, Clear, 0.87, B-M, N,N	SE	1.5ft.	6ft.	30.0	8.7	21.3	22	47	1205 Btuh	
10	2, Clear, 0.87, B-M, N,N	S	1.5ft.	15ft.	60.0	0.0	60.0	22	27	1639 Btuh	
11	2, Clear, 0.87, B-M, N,N	S	1.5ft.	12ft.	6.0	0.0	6.0	22	27	164 Btuh	
12	2, Clear, 0.87, B-M, N,N	S	1.5ft.	6ft.	60.0	60.0	0.0	22	27	1345 Btuh	
13	2, Clear, 0.87, B-M, N,N	S	1.5ft.	4ft.	6.0	6.0	0.0	22	27	134 Btuh	
14	2, Clear, 0.87, B-M, N,N	W	1.5ft.	6ft.	25.0	1.2	23.8	22	59	1427 Btuh	
15	2, Clear, 0.87, B-M, N,N	S	1.5ft.	6ft.	30.0	30.0	0.0	22	27	672 Btuh	
16	2, Clear, 0.87, B-M, N,N	W	1.5ft.	15ft.	25.0	0.0	25.0	22	59	1472 Btuh	
17	2, Clear, 0.87, B-M, N,N	W	1.5ft.	17ft.	42.0	0.0	42.0	22	59	2472 Btuh	
18	2, Clear, 0.87, B-M, N,N	W	1.5ft.	13ft.	9.0	0.0	9.0	22	59	530 Btuh	
19	2, Clear, 0.87, B-M, N,N	S	1.5ft.	16ft.	36.0	0.0	36.0	22	27	983 Btuh	
Window Total						519 (sqft)					21313 Btuh
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
	1 Face Brick - Wood - Ext	13.0/0.09		3175.0			1.3		4227 Btuh		
Wall Total						3175 (sqft)					4227 Btuh
Doors	Type				Area (sqft)		HTM		Load		
	1 Insulated - Exterior				16.3		10.1		166 Btuh		
2	Insulated - Exterior				40.8		10.1		414 Btuh		
3	Insulated - Exterior				20.4		10.1		207 Btuh		
4	Insulated - Exterior				81.6		10.1		828 Btuh		
5	Insulated - Exterior				34.0		10.1		345 Btuh		
Door Total						193 (sqft)				1960 Btuh	
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
	1 Unvented Attic/DarkShingle	30.0		1460.0			2.3		3394 Btuh		
Ceiling Total						1460 (sqft)					3394 Btuh
Floors	Type	R-Value		Size			HTM		Load		
	1 Raised Wood - Stern Wall	3.0		172 (sqft)			0.4		76 Btuh		
2	Slab On Grade	0.0		224 (ft(p))			0.0		0 Btuh		
Floor Total						396.0 (sqft)					76 Btuh
Envelope Subtotal:										30971 Btuh	
Infiltration	Type	ACH		Volume(cuft) wall area(sqft)			CFM=		Load		
	SensibleNatural	0.15		28826 3175			134.5		1424 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	0		X 230 +			6800		6800 Btuh			
Duct load	(DGMs vary for Mixed ducts)										337 Btuh
Sensible Load All Zones										39532 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	39196 Btuh
	Sensible Duct Load	337 Btuh
	Total Sensible Zone Loads	39532 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	39532 Btuh
	Latent infiltration gain (for 46 gr. humidity difference)	2250 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	74 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2325 Btuh
	TOTAL GAIN	41857 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 - Winter

Residential Load - Room by Room Component Details

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

Reference City: Tallahassee (Defaults) Winter Temperature Difference: 42.0 F

7/20/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	E	30.0	36.5	1096 Btuh
2	2, Clear, Metal, 0.87	NE	30.0	36.5	1096 Btuh
3	2, Clear, Metal, 0.87	SE	30.0	36.5	1096 Btuh
Window Total			90(sqft)		3289 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Face Brick - Wood - Ext(0.09)	13.0	3175	3.7	11836 Btuh
Wall Total			3175		11836 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	14.7	300 Btuh
2	Insulated - Exterior		82	14.7	1200 Btuh
3	Insulated - Exterior		34	14.7	500 Btuh
Door Total			136		1999 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	224.0 ft(p)	49.6	11101 Btuh
Floor Total			224		11101 Btuh
Zone Envelope Subtotal:					28225 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.28	17146	3175	134.5
					6204 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.005)				166 Btuh
Zone #1	Sensible Zone Subtotal				34595 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

Component Loads for Zone #2: NewName

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
2	2, Clear, Metal, 0.87	N	12.0		36.5	438 Btuh
3	2, Clear, Metal, 0.87	E	30.0		36.5	1096 Btuh
4	2, Clear, Metal, 0.87	E	24.0		36.5	877 Btuh
5	2, Clear, Metal, 0.87	N	4.0		36.5	146 Btuh
6	2, Clear, Metal, 0.87	NE	30.0		36.5	1096 Btuh
7	2, Clear, Metal, 0.87	SE	30.0		36.5	1096 Btuh
8	2, Clear, Metal, 0.87	S	60.0		36.5	2192 Btuh
9	2, Clear, Metal, 0.87	S	6.0		36.5	219 Btuh
10	2, Clear, Metal, 0.87	S	60.0		36.5	2192 Btuh
11	2, Clear, Metal, 0.87	S	6.0		36.5	219 Btuh
12	2, Clear, Metal, 0.87	W	25.0		36.5	914 Btuh
13	2, Clear, Metal, 0.87	S	30.0		36.5	1096 Btuh
14	2, Clear, Metal, 0.87	W	25.0		36.5	914 Btuh
15	2, Clear, Metal, 0.87	W	42.0		36.5	1535 Btuh
16	2, Clear, Metal, 0.87	W	9.0		36.5	329 Btuh
17	2, Clear, Metal, 0.87	S	36.0		36.5	1315 Btuh
Window Total			429(sqft)			15676 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		16		14.7	240 Btuh
2	Insulated - Exterior		41		14.7	600 Btuh
Door Total			57			840Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Unvented Attic/D/Shin)	30.0	1460		1.3	1953 Btuh
Ceiling Total			1460			1953Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Raised Wood - Stem Wall	3	172.0 sqft		3.6	613 Btuh
Floor Total			172			613 Btuh
Zone Envelope Subtotal:						19081 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=		
	Natural	0.28	11680	0	0.0	0 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.007)					136 Btuh
Zone #2	Sensible Zone Subtotal					19217 Btuh

Residential Load - Component Details (continued)

Code Only
Professional Version
Climate: North

7/20/2006

Heating Loads For System(s):1 Serving Zones: 1	Block load	34595 Btu/h
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Heating Loads For System(s):2 Serving Zones: 2	Block load	19217 Btu/h
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	Subtotal Sensible Ventilation Sensible Total Btuh Loss	53812 Btuh 0 Btuh 53812 Btuh
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For Florida residences only

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

Reference City: Tallahassee (Defaults) Winter Temperature Difference: 42.0 F

7/20/2006

Component Loads for Whole House					
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	12.0	36.5	438 Btuh
2	2, Clear, Metal, 0.87	E	30.0	36.5	1096 Btuh
3	2, Clear, Metal, 0.87	E	30.0	36.5	1096 Btuh
4	2, Clear, Metal, 0.87	E	24.0	36.5	877 Btuh
5	2, Clear, Metal, 0.87	N	4.0	36.5	146 Btuh
6	2, Clear, Metal, 0.87	NE	30.0	36.5	1096 Btuh
7	2, Clear, Metal, 0.87	SE	30.0	36.5	1096 Btuh
8	2, Clear, Metal, 0.87	NE	30.0	36.5	1096 Btuh
9	2, Clear, Metal, 0.87	SE	30.0	36.5	1096 Btuh
10	2, Clear, Metal, 0.87	S	60.0	36.5	2192 Btuh
11	2, Clear, Metal, 0.87	S	6.0	36.5	219 Btuh
12	2, Clear, Metal, 0.87	S	60.0	36.5	2192 Btuh
13	2, Clear, Metal, 0.87	S	6.0	36.5	219 Btuh
14	2, Clear, Metal, 0.87	W	25.0	36.5	914 Btuh
15	2, Clear, Metal, 0.87	S	30.0	36.5	1096 Btuh
16	2, Clear, Metal, 0.87	W	25.0	36.5	914 Btuh
17	2, Clear, Metal, 0.87	W	42.0	36.5	1535 Btuh
18	2, Clear, Metal, 0.87	W	9.0	36.5	329 Btuh
19	2, Clear, Metal, 0.87	S	36.0	36.5	1315 Btuh
Window Total			519(sqft)		18964 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Face Brick - Wood - Ext(0.09)	13.0	3175	3.7	11836 Btuh
Wall Total			3175		11836 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		16	14.7	240 Btuh
2	Insulated - Exterior		41	14.7	600 Btuh
3	Insulated - Exterior		20	14.7	300 Btuh
4	Insulated - Exterior		82	14.7	1200 Btuh
5	Insulated - Exterior		34	14.7	500 Btuh
Door Total			193		2839 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Unvented Attic/D/Shin)	30.0	1460	1.3	1953 Btuh
Ceiling Total			1460		1953 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Stem Wall	3	172.0 sqft	3.6	613 Btuh
2	Slab On Grade	0	224.0 ft(p)	49.6	11101 Btuh
Floor Total			396		11714 Btuh
Envelope Subtotal:					47306 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=	Load
	Natural	0.28	28826	3175	134.5
					6204 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

7/20/2006

Ductload	(DLM of Mixed ducts)	302 Btuh
All Zones	Sensible Subtotal All Zones	53812 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	53812 Btuh 0 Btuh 53812 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

FROM :

FAX NO. : 386-755-7822

Sep. 17 2002 01:52PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4" & 6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (804) 788-1814
FAX (804) 788-7822
RENOVATION CENTER
LAKE CITY, FLORIDA 32805
904 NW Main Blvd.

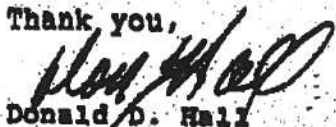
June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk



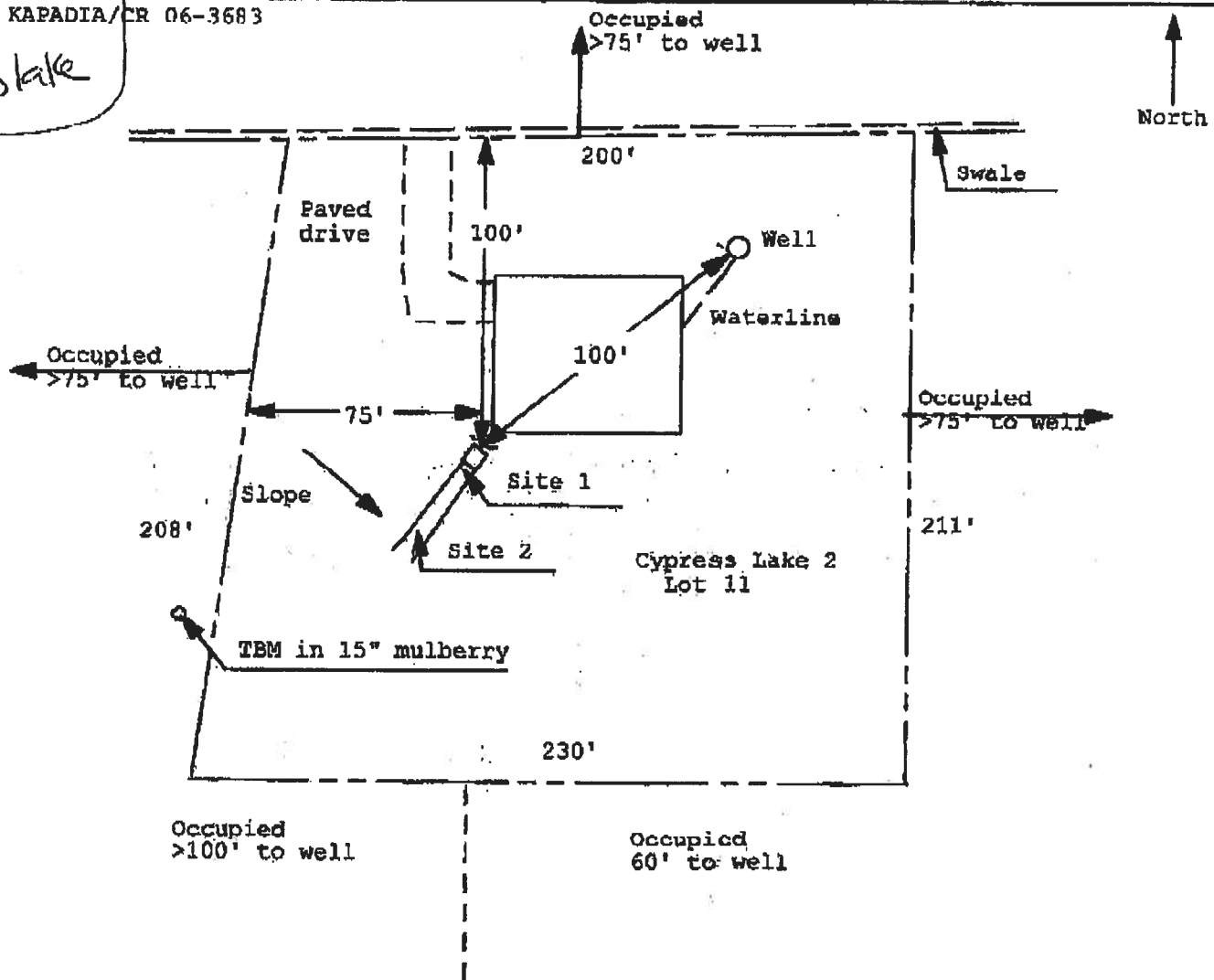
0609-92

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 010-0809N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

KAPADIA/CR 06-3683

Blake



1 inch = 50 feet

Site Plan Submitted By [Signature] Date 9/11/06
Plan Approved ☒ Not Approved ☐ Date 9/14/06
By [Signature] Columbia CPHU

Notes:

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001236

DATE 10/13/2006 PARCEL ID # 33-3S-16-02434-111

APPLICANT LINDA RODER PHONE 754-5810

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER DILIP & PRIYA KAPADIA PHONE 754-5810

ADDRESS 330 SW RIDGEVIEW PLACE LAKE CITY FL 32024

CONTRACTOR BLAKE LUNDE PHONE 754-5810

LOCATION OF PROPERTY 90W, TL ON SWEETWATER DR., TR ON RIDGEVIEW, 6TH ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CYPRESS LAKES 11

SIGNATURE



INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length 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.



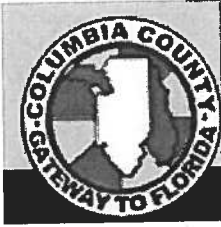
Other _____

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

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

Amount Paid 25.00





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: **0609-92**
Blake Construction Owner Dilip Kapadia Property ID 33-3s-16-02434-111
On the date of October 4, 2006 application 0609-92 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 0609-92 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.

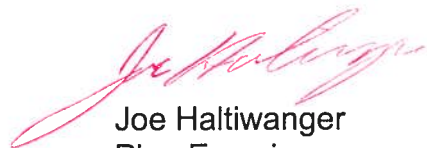
1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.

10-10-06

- 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 wind load and structural calculation by CTC Design Group was preformed using the 2001 Florida Building Code. Please have CTC Design Group perform a wind load and structural calculation which meets the requirements of the 2004 Florida Residential Building Code chapter 3 sections R301 building planning and design criteria.
- 4.** On the first floor one bathroom shall comply with section R322.1.1 of the Florida Residential Building Code -2004. All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737 mm) clear opening. However, if only a toilet room is provided at grade level, such toilet rooms shall have a clear opening of not less than 29 inches (737 mm).
- 5.** Please indicate that in each bedroom, one window within the bedrooms will serve as an emergency escape and rescue openings, as required by the 2004 Florida Residential Code sections R310.1.1 Minimum opening area: All emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (0.530 m²). Sections R310.1.2 Minimum opening height. The minimum net clear opening height shall be 24 inches (610 mm): R310.1.3 Minimum opening width. The minimum net clear opening width shall be 20 inches (508 mm).

- 6.** On the foundation plan show the required steel reinforcement of the 24" X 24" X10" interior thicken pads and also show the required steel reinforcement for the interior 12" wide footings.
- 7.** Please have Builders FirstSource supply the required sealed engineering drawing for the floor system.
- 8.** Show on the plans the required material type, size and method of attachment of the load bearing columns to the foundation. Also show the method of the attachment of the MLAM beams to the columns. Show the required attachment of the THAL-422 to the MLAM beams.
- 9.** If the optional anchoring system is used show the required spacing and locations for all non opening shear walls.

Thank You:



Joe Haltiwanger
Plan Examiner
Columbia County Building
Department

OTHERS

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



3. The wind load and structural calculation by CTC Design Group was performed using the 2001 Florida Building Code. Please have CTC Design Group perform a wind load and structural calculation which meets the requirements of the 2004 Florida Residential Building Code chapter 3 sections R301 building planning and design criteria.

4. On the first floor one bathroom shall comply with section R322.1.1 of the Florida Residential Building Code -2004. All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737 mm) clear opening. However, if only a toilet room is provided at grade level, such toilet rooms shall have a clear opening of not less than 29 inches (737 mm).

5. Please indicate that in each bedroom, one window within the bedrooms will serve as an emergency escape and rescue openings, as required by the 2004 Florida Residential Code sections R310.1.1 Minimum opening area: All emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (0.530 m2). Sections R310.1.2 Minimum opening height. The minimum net clear opening height shall be 24 inches (610 mm): R310.1.3 Minimum opening width. The minimum net clear opening width shall be 20 inches (508 mm).

See Note #7 on Detail Sheet #10 which specifies that at least one window in each bedroom must meet egress requirements.

COMPLETED

6. On the foundation plan show the required steel reinforcement of the 24" X 24" X10" interior thicken pads and also show the required steel reinforcement for the interior 12" wide footings.

OTHERS

- ~~7. Please have Builders FirstSource supply the required sealed engineering drawing for the floor system.~~

COMPLETED

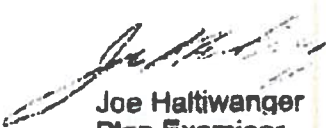
8. Show on the plans the required material type, size and method of attachment of the load bearing columns to the foundation. Also show the method of the attachment of the MLAM beams to the columns. Show the required attachment of the THAL-422 to the MLAM beams.

This detail should be in the truss engineering packet provided by Builder's First Source. (If not let me know).

COMPLETED

9. If the optional anchoring system is used show the required spacing and locations for all non opening shear walls.

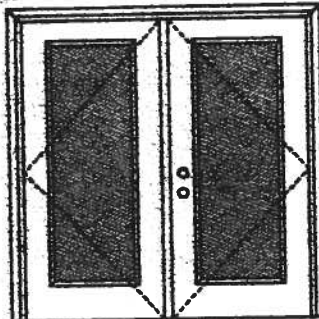
Thank You:


Joe Haltiwanger
Plan Examiner
Columbia County Building
Department

XX

Glazed Outswing Unit

CCP-WL-JH162-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:**

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

Design Pressure
+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

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

Note:

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:**1/4 GLASS:**

100 Series



133, 136 Series



138 Series



680 Series



822 Series

1/2 GLASS:

106 Series*



106, 160 Series*



128 Series*



200 Series*



12 RL, 23 RL, 24 RL Series*



107 Series*



108 Series



304 Series

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

Johnson
EntrySystems

March 29, 2002

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

PREMDOR® Collection
Premium Quality Doors

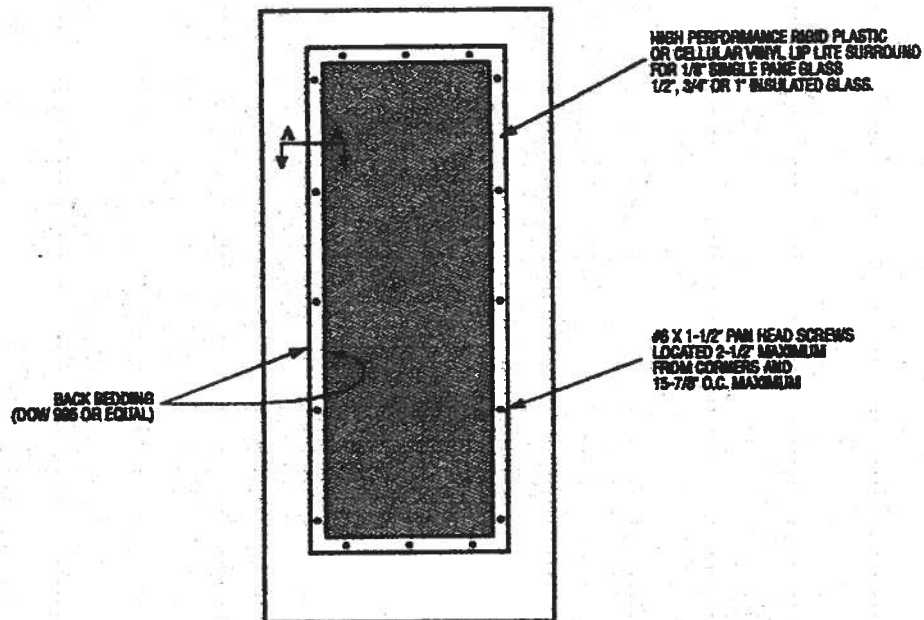


Exclusively from

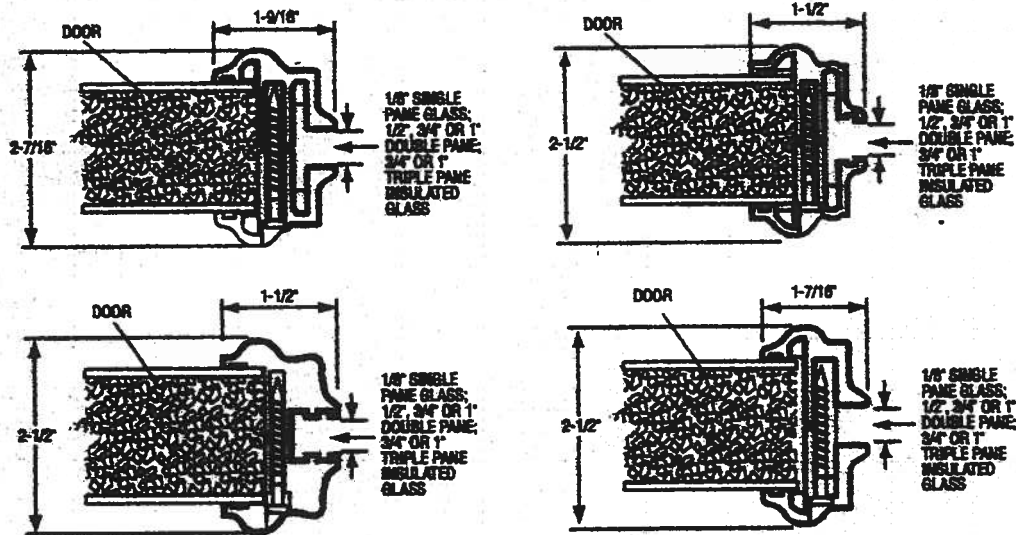
Masonite®
Masonite International Corporation

MAD-WL-MA0041-C2

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



March 28, 2002
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PRENDRE Collection
Premium Quality Doors

Exclusively from
Masonite
Masonite International Corporation

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:



404 Series



410 Series



450 Series

FULL GLASS:



100 Series



114, 120, 122
Series



162 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

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

Johnson
EntrySystems

March 28, 2002

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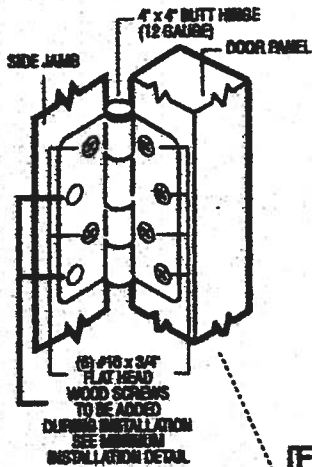
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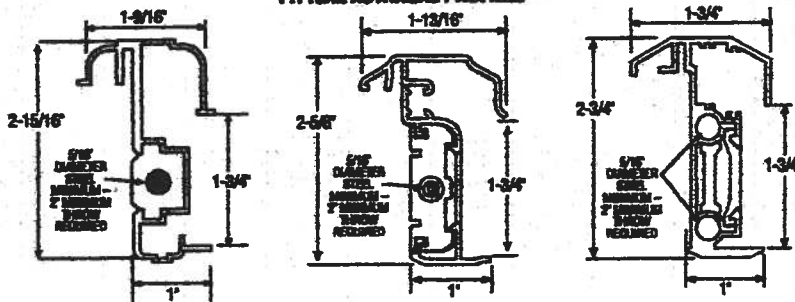
XX
Unit

OUTSWING UNITS WITH DOUBLE DOOR

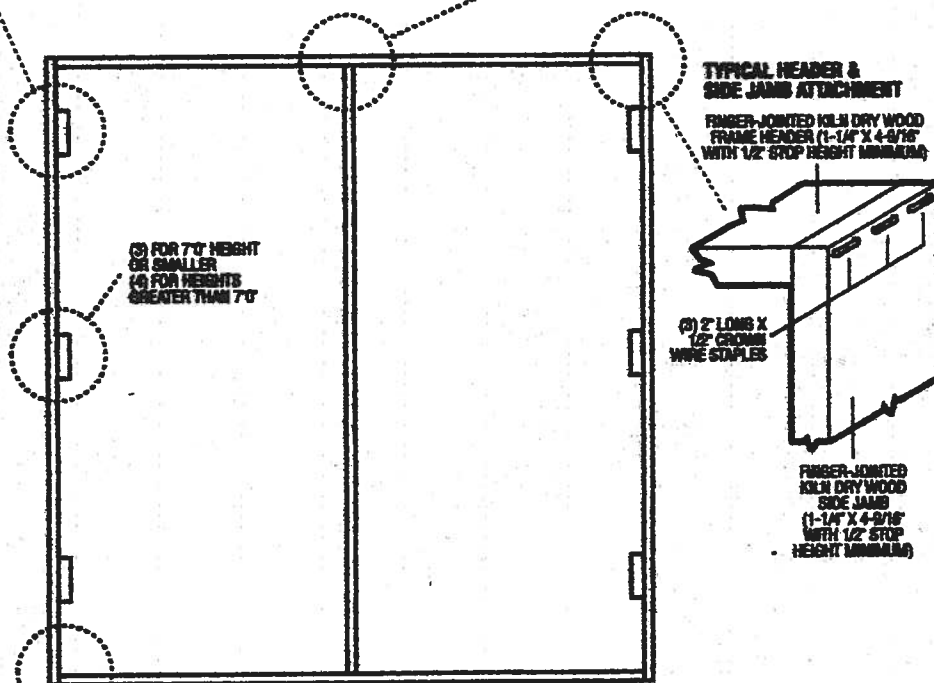
TYPICAL HINGE ATTACHMENT



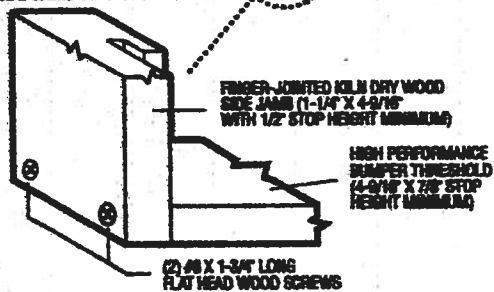
TYPICAL ASTRALAL PROFILES



ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS - LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 29, 2002
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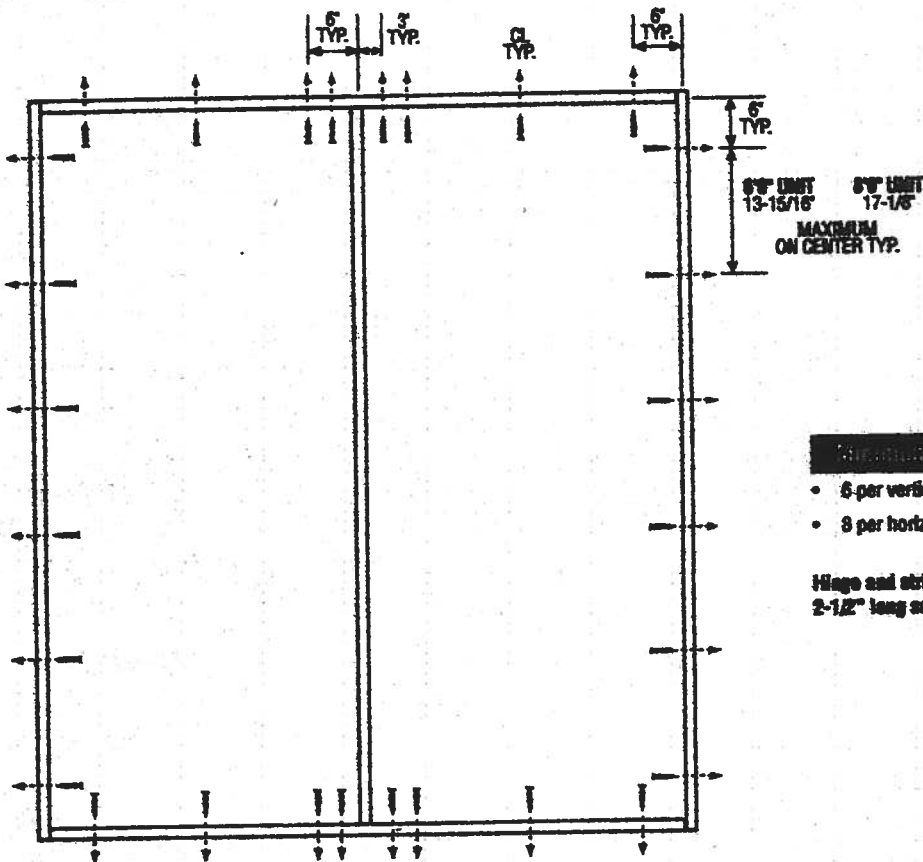


Exclusively from
Masonite
Masonite International Corporation

XX
Unit

IND-WL-MAD002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002
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PREMIER Collection
Premium Quality Doors



Exclusively from

Masonite
Masonite International Corporation



FEB - 4 2002

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

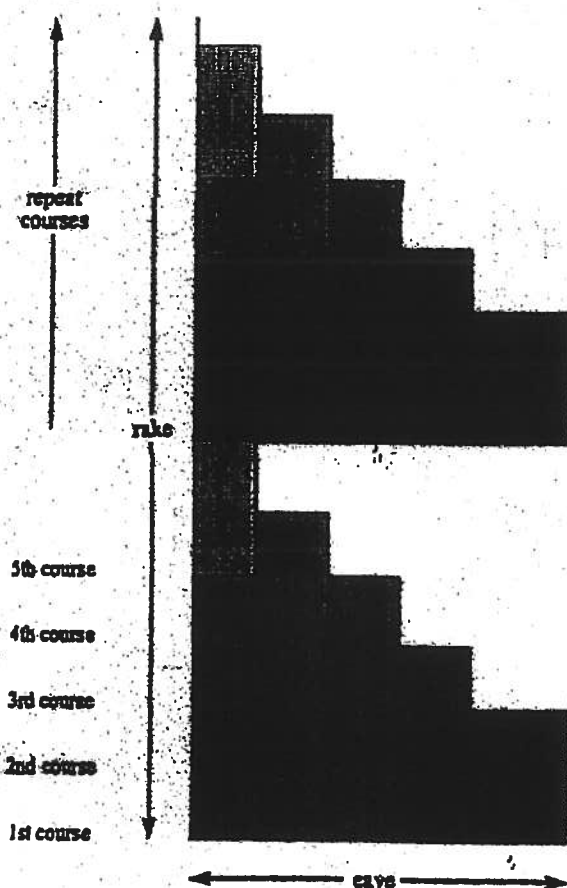
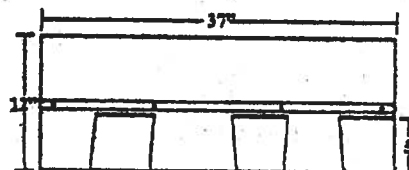
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

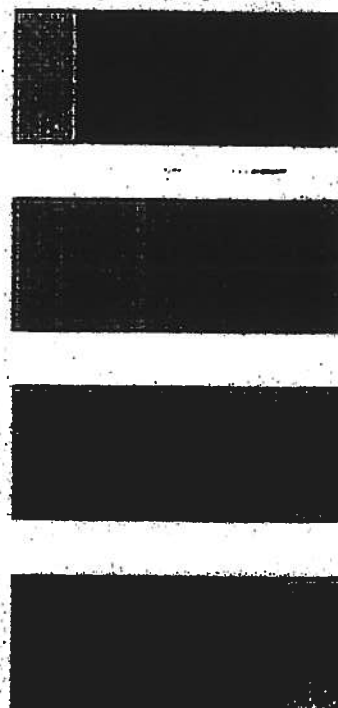


Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- THREE-TAB ASPHALT SHINGLES**

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS. THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and ridges.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thick, and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement
3. Rotting of wood members
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.

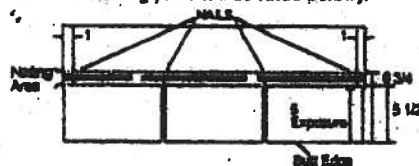
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

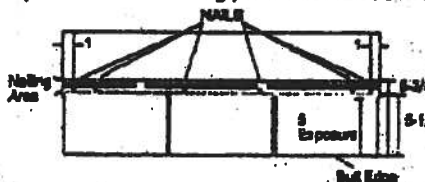
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

- 1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



- 2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fasteners per shingle. (See Mansard fastening pattern illustrated below).



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

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www.tamko.com

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Southeast District	2300 35th St., Tuscaloosa, AL 35401	800-228-2858
Southwest District	7910 S. Central Exp., Dallas, TX 75218	800-443-1834
Western District	5300 East 43rd Ave., Denver, CO 80216	800-530-8868

07/01

TAMKO

ROOFING PRODUCTS

(CONTINUED from Pg. 2)

- Glass-Seal
- Glass-Seal AR

- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 6 in. exposure, use 6 fasteners per shingle. See Section 3 for the Nassard Fastening Pattern.

5. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and re-fasten in a new location. Remove all drip edge metal and replace with new.

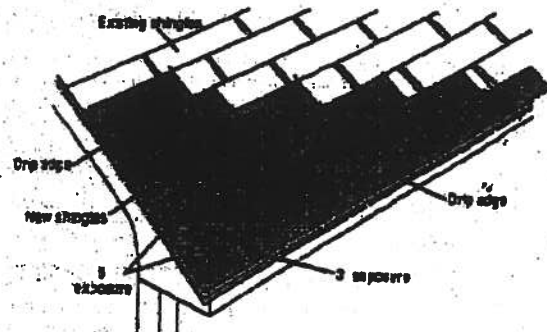
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nailing procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 8 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

5. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. re-roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

Note: For a neater installation, snap a chalkline over the shingles for guidance.

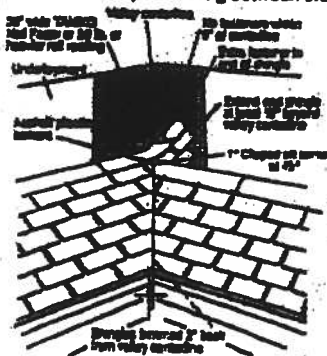
- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

CAUTION:

Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

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800-830-8868

07/01



(CONTINUED from Pg. 3)

• Glass-Seal
• Glass-Seal AR

• Elite-Glass-Seal®
• Elite-Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

18. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

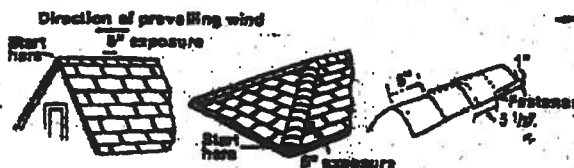
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite-Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite-Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

TAMKO
ROOFING PRODUCTS, INC.
10000 TAMKO DRIVE
DALLAS, TEXAS 75243-1000
TEL: 214/343-1000
FAX: 214/343-1001
WWW.TAMKO.COM

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

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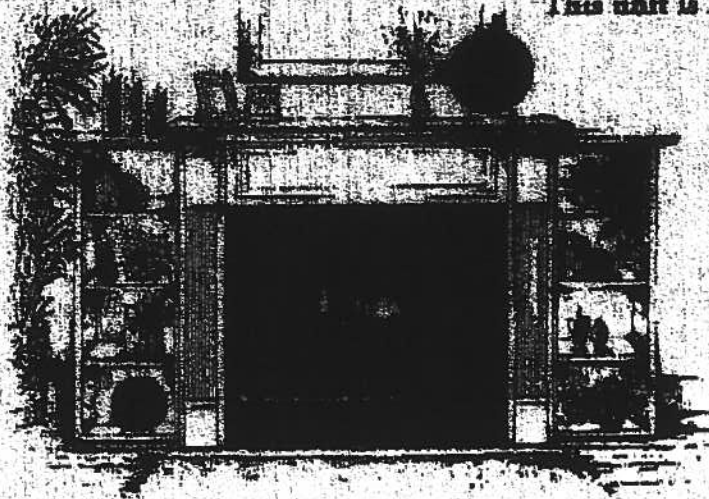
07/01

VENT-FIRE

This unit is A.G.A. certified as a heater with 99% heat efficiency

No chimney or flue system required

Wide selection of factory installed options offered

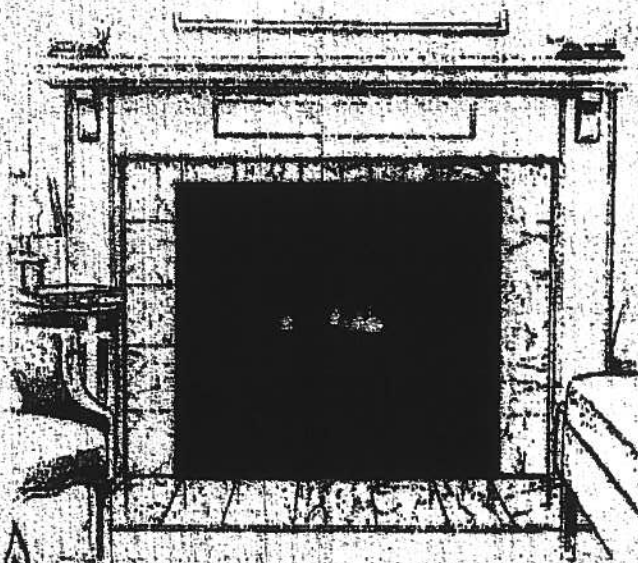
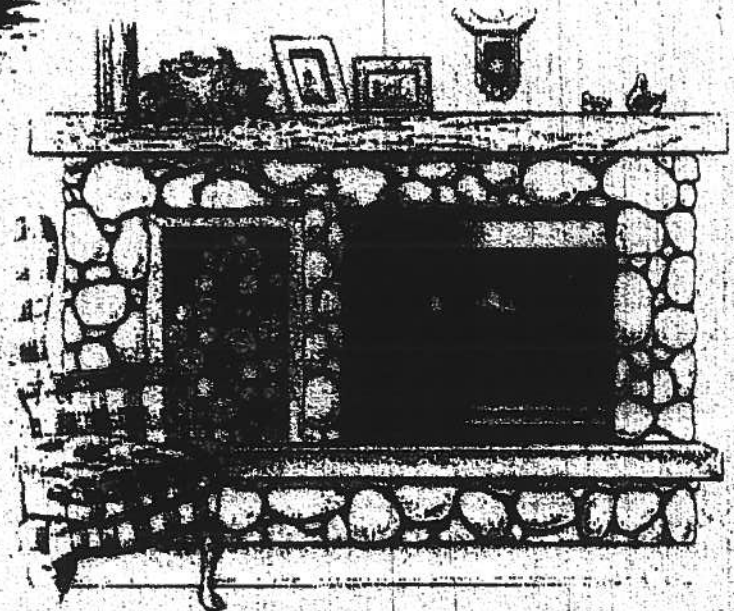


VF-4000

- 14,000 - 25,000 Btu/hr with manual control valve
- 19,500 - 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening

VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers

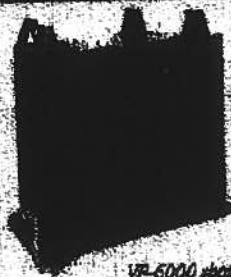


VF-6000

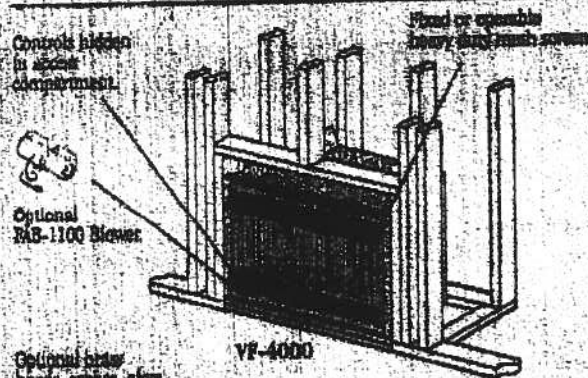
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

SUPERIOR

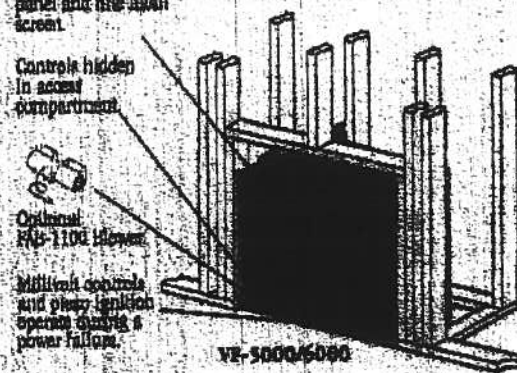
VF-4000/5000/6000



VF-5000 electric



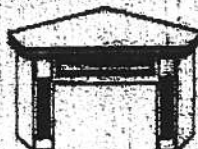
VF-4000



VF-5000/6000

SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



Distributed by:



Refractory fire brick panels



Gas box liner kit



Square brass trim kit



Brass Louver kit (For VF-4 only)



Screen panel kit (For VF-5 & VF-6 only)



Arch kit (For VF-5 & VF-6 only)



Glass door kit (For VF-5 & VF-6 only)



Brass head (For VF-5 & VF-6 only)

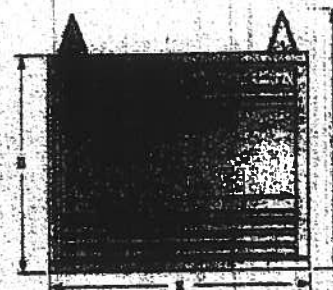


Wall switch or optional wireless remote available (For VF-4M, VF-5 & VF-6)

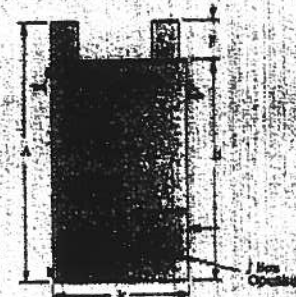


Wall thermostat (For VF-4M, VF-5 & VF-6)

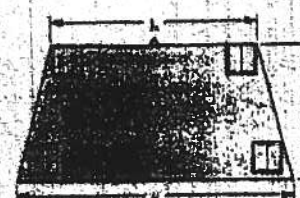
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
Height	33-1/2"	36-5/8"
Depth	20"	20"
Width	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"
Weight	33-1/2"	33-1/2"

Btu Chart

Model	Neutral	Propane
VF-4000 optional	14,000 - 25,000	14,000 - 25,000
VF-4000/5000 ultimate	19,500 - 25,000	19,500 - 25,000
VF-6000	25,000 - 32,000	25,000 - 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	57-1/4"	19-1/2"
VF-6000	41"	49-3/8"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Refer to ANSI Z39.11.2 standard and approved by A.G.A. (Report # 12970017).

Consult your distributor for local fireplace code information.



SUPERIOR

www.LennoxHearthProducts.com

I

**AAMA/NWDA 101/LS-2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

**SERIES/MODEL: 650 Fm
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


1 APRIL 2002



II

Architectural Testing

AAMA/NWDA 101/LS-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 Elizabethtown, 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/NWDA 101/LS-2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

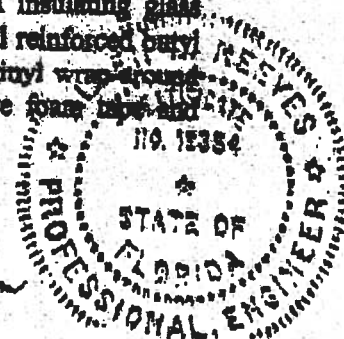
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 3/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

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

Allen D. Ramm
1 APRIL 2002



III

Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen N. Reeves
1 APRIL 2002



IV

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:

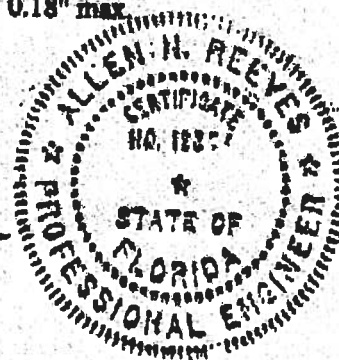
The results are tabulated as follows:

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
	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42" 0.43"	0.26" max. 0.26" max.

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

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

Allen H. Reeves
1 APRIL 2002



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

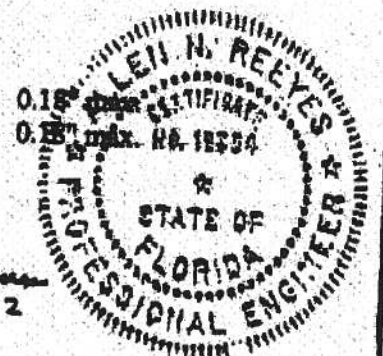
Optional Performance

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"
@ 70.8 psf (negative)	0.05"

Allen N. Reeves
1 APRIL 2002



VI

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. Hens
Technician

MAH:nib
01-41134.01



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





FLORIDA BUILDING CODE

Overview User Registration Application Search Organization Approval Status

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer



Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expires	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2009	Approved
Org Code: FDM	System ID: 3385	Site Link: www.gadco.com				

Displaying 1-1 of 1

Approved by: [redacted] Date: [redacted]



LISTED

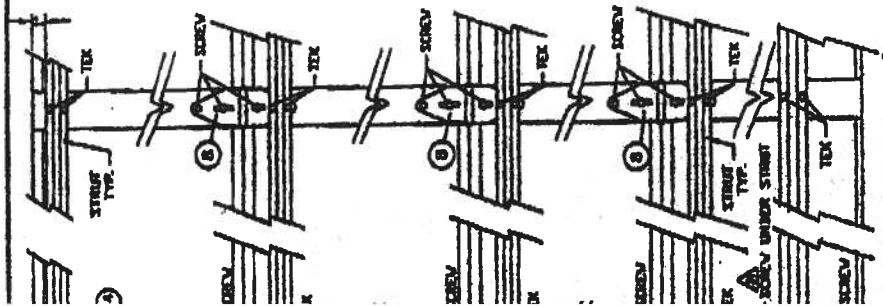
REPORT No. Z202

SEC G-G
CENTER STILE
20 GA GALVANIZED

SEC D-D
PAN ATTACHMENT
TO STILE
OPTIONAL

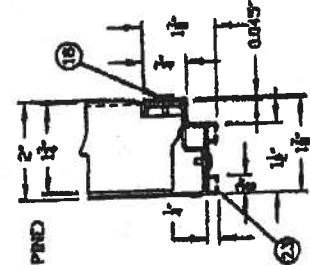
SEC D-D
PAN ATTACHMENT
TO STILE
GAS TESTED

PAN ATTACHMENT
TO STILE

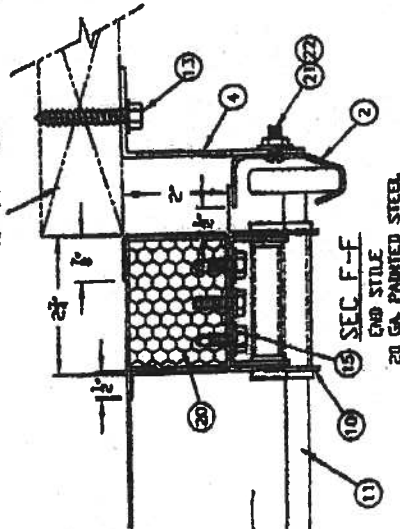


STRINGER ARRANGEMENT A

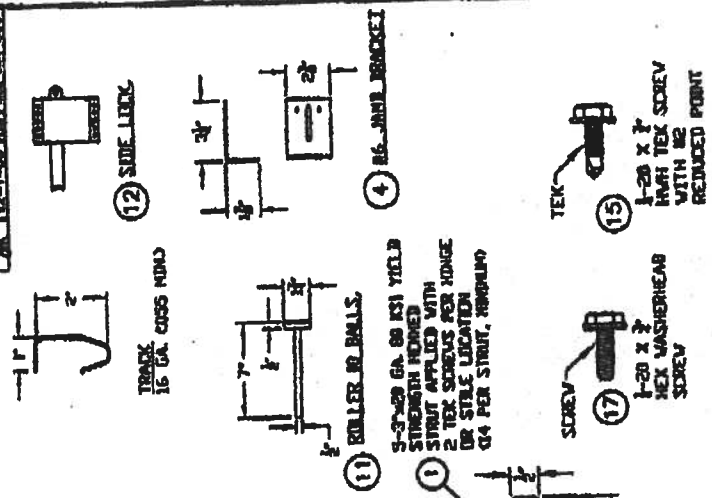
2x6 PRESSURE TREATED LUMBER
(GRADE #2 OR BETTER SOUTHERN PINE)



SEC E-E



SEC F-F
END STILE
20 GA PAINTED STEEL



SEC A-A



ITEM	QUANTITY	DESCRIPTION
1	1	20 GA GALVANIZED STEEL
2	1	20 GA GALVANIZED STEEL
3	1	20 GA GALVANIZED STEEL
4	1	20 GA GALVANIZED STEEL
5	1	20 GA GALVANIZED STEEL
6	1	20 GA GALVANIZED STEEL
7	1	20 GA GALVANIZED STEEL
8	1	20 GA GALVANIZED STEEL
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100	1	20 GA GALVANIZED STEEL

GENERAL AMERICAN DOOR COMPANY

5000 BASELINE ROAD

MEMPHIS, TN 38117

10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

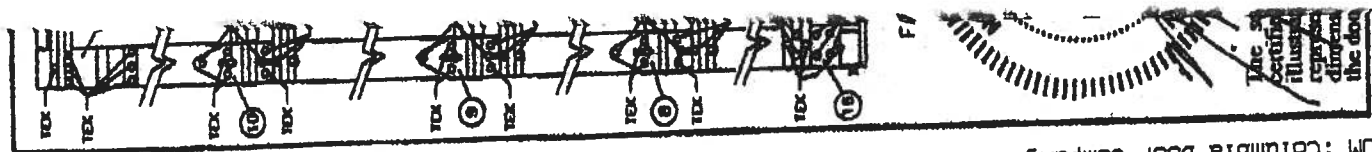
10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

10' X 7' MAX. BUILT-UP PANEL STEEL DOOR-1/2" MIN. THICK

on this drawing only
that the product(s)
and described herein
the configuration(s)
is and installation(s) of
S tested.

SEAL
E No. 024280

IN CAROLINA
PROFESSIONAL



FROM: Columbia Door Company

FAX NO.: 386-754-9993

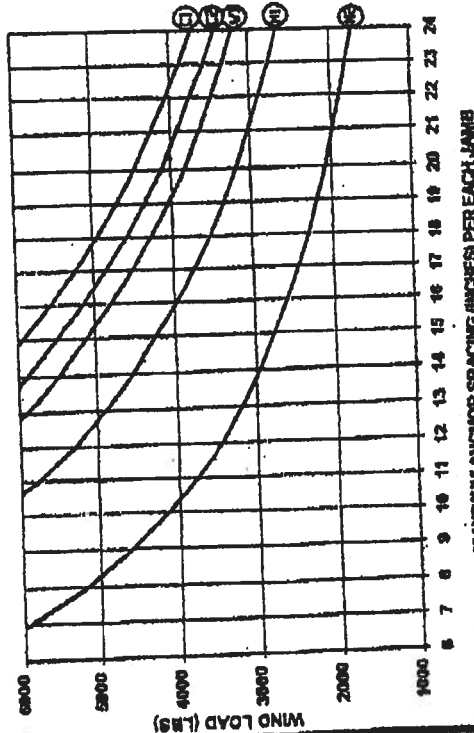
Jun. 28 2004 07:38AM P3

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION" SSTB 10, CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME RIB LINGS STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2x6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE 2x6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C56 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2500 PSI GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2x6 WALL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2x6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2x6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

WIND LOAD VS ANCHOR SPACING

MAXIMUM ANCHOR SPACING (INCHES) PER EACH JAMB

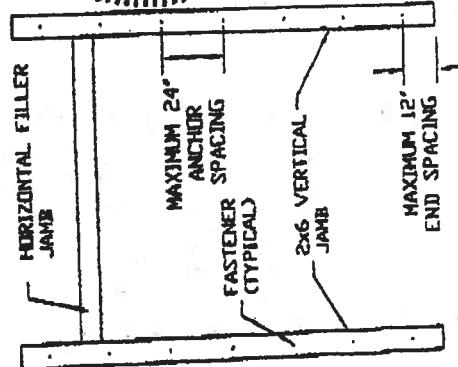
DESIGN (LBS) X GARAGE DOOR AREA (WIDTH-FT X HEIGHT-FT) = WIND LOAD (LBS)
LOAD $\frac{FTE}{FTE}$

EXAMPLE

20 LBS $\frac{FTE}{FTE}$ X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

① USE 22" SPACING
② USE 21" SPACING
③ USE 19" SPACING
④ USE 16" SPACING

SEE NOTE 11 FOR ADDITIONAL
REQUIREMENTS FOR 2x6 WOOD JAMB ANCHORS



PROFESSIONAL
SEAL
PE No. 024280
NORTH CAROLINA
ENGINEER
Walter R. Kevan



3/8/2002

GENERAL AMERICAN DOOR COMPANY	
5600 BASELINE ROAD MONTGOMERY, IL 60538	
DATE: 8-30-99	REVISED BY: DV
REVISION: 1	REVISION: 1
FOR STRUCTURE ATTACHMENT FOR WOOD LOADED GARAGE DOORS	
DRAWING NUMBER: A10560	

fixed glass



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Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL #

FL44-R3

Application Type

Revision

Code Version

2004

Application Status

Approved

Comments

Archived

Product Manufacturer

Florida Extruders International, Inc.

Address/Phone/Email

2540 Jewett Lane
Sanford, FL 32771
(407) 323-3300 ext 340
ramoruso.pe@floridaextruders.com

Authorized Signature

Robert Amoruso
ramoruso.pe@floridaextruders.com

Technical Representative
Address/Phone/Email

Robert J. Amoruso
2540 Jewett Lane
Sanford, FL 32828
(407) 323-3300
ramoruso.pe @floridaextruders.com



► COMMUNITY PLANNING

► HOUSING & COMMUNITY DEVELOPMENT

► EMERGENCY MANAGEMENT

► OFFICE OF THE SECRETARY

Quality Assurance Representative
Address/Phone/Email

Kirby Osteen
2540 Jewett Lane
Sanford, FL 32771
(407) 323-3300
ramoruso.pe@floridaextruders.com

Category
Subcategory

Windows
Fixed

Compliance Method

Certification Mark or Listing

Certification Agency

Intertek Testing Services - ETL/Warnock Hersey

Referenced Standard and Year (of
Standard)

<u>Standard</u>	<u>Year</u>
ANSI/AAMA/NWWDA 101/I.S. 2	1997
ANSI/AAMA/NWWDA 101/I.S. 2	1997
SBCCI SSTD 12	1999
SBCCI SSTD 12	1999

Equivalence of Product Standards
Certified By

Sections from the Code

1609.1.4
1714.5.2.1
R301.2.1.2
R613.3.1

Product Approval Method

Method 1 Option A

Date Submitted 12/27/2005
 Date Validated 12/27/2005
 Date Pending FBC Approval 01/05/2006
 Date Approved 02/07/2006

Summary of Products

FL #	Model, Number or Name	Description
44.1	Milestone – Series 1000 Fixed Window	Aluminum Fixed Window with non- impact resistant glazing
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: 1) The windows shall be installed in accordance with the Manufacturer's Installation Drawings. 2) Fastener Size, Type and Spacing are determined by the type of construction per the Manufacturer's Installation Drawings. 3) The windows and patio doors shall not be installed in areas where the applied transverse wind load exceed the allowable design pressure based on the following: fastener type and spacing on the installation drawings, test report design pressure and/or glass load resistance determined from ASTM E-1300. 4) MILESTONE Non-Impact Resistant Windows have not been evaluated for use in High Velocity Hurricane Zones (Broward and Dade Counties) or in Wind-Borne Debris Regions as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Building and 2004 Florida Building Code-Residential and shall not be used in the HVHZ. See Item 5 for exception. 5) MILESTONE Non-Impact Resistant Certification Agency Certificate Installation Instructions <u>PTID 44_R3_I_2001to2004_FBC_Comparison.pdf</u> <u>PTID 44_R3_I_Fixed_Widow_Listing_Reports_ATM.pdf</u> <u>PTID 44_R3_I_FL44-F_InstallationDrawing.pdf</u> Verified By:		

Windows may be used in Wind-Borne Debris Regions as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Building and 2004 Florida Building Code-Residential that lie outside the High Velocity Hurricane Zones (Broward and Dade counties) if a Florida Building Code approved shutter assembly is employed to protect the window in accordance with applicable FBC Code Sections. 6) Performance Ratings and Certification Agency Listing No. R50 (DSB) (4' 0" x 4' 0" - Listing No. 16742-3A) C60 (3/16) (5' 0" x 6' 0" - Listing No. 16742-3A) C70 (1/4) (6' 0" x 6' 0" - Listing No. 16742-3A)	44.2	Milestone – Series 1000 Fixed Window (Impact)	Aluminum Fixed Window with impact resistant glazing
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: 1) The windows shall be installed in accordance with the Manufacturer's Installation Drawings. 2) Fastener Size, Type and Spacing are determined by the type of construction per the Manufacturer's Installation Drawings. 3) The windows and patio doors shall not be installed in areas where the applied transverse wind loads exceed the allowable design pressure based on the following: fastener type and spacing on the installation drawings, test report design pressure and/or glass load resistance determined from ASTM E-1300. 4) MILESTONE Impact Resistant Windows have not been evaluated for use in High Velocity Hurricane Zones (Broward and Dade Counties) as defined in the 2001 Florida Building Code, 2004			Certification Agency Certificate Installation Instructions Verified By:

Florida Building Code-Building and 2004 Florida Building Code-Residential and shall not be used in the HVHZ. 5) MILESTONE Impact Resistant Windows have been evaluated for use in Wind-Borne Debris Regions as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Building and 2004 Florida Building Code-Residential that lie outside the High Velocity Hurricane Zones (Broward and Dade counties). 6) Performance Ratings and Certification Agency Listing No. R/C60 (6' 0" x 5' 0" - Listing No. 16742-3B) R/C60 (6' 2" x 4' 0" - Listing No. 16742-3B) R/C60 (12' 0" x 2' 0" - Listing No. 16742-3B		Aluminum Fixed Window with non- impact resistant glazing Certification Agency Certificate Installation Instructions Verified By:	
44.3	Milestone – Series 2000 Fixed Window	Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: 1) The windows shall be installed in accordance with the Manufacturer's Installation Drawings. 2) Fastener Size, Type and Spacing are determined by the type of construction per the Manufacturer's Installation Drawings. 3) The windows and patio doors shall not be installed in areas where the applied transverse wind loads exceed the allowable design pressure based on the following: fastener type and spacing on the installation drawings, test report design pressure and/or glass load resistance determined from ASTM E-1300. 4) MILESTONE Non-Impact Resistant Windows have not been evaluated for use in High Velocity Hurricane Zones (Broward and Dade	

Counties) or in Wind-Borne Debris Regions as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Building and 2004 Florida Building Code-Residential and shall not be used in the HVHZ. See Item 5 for exception. 5) MILESTONE Non-Impact Resistant Windows may be used in Wind-Borne Debris Regions as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Building and 2004 Florida Building Code-Residential that lie outside the High Velocity Hurricane Zones (Broward and Dade counties) if a Florida Building Code approved shutter assembly is employed to protect the window in accordance with applicable FBC Code Sections. 6) Performance Ratings and Certification Agency Listing No. R50 (DSB) (4' 0" x 4' 0" - Listing No. 16742-3C) C60 (3/16) (5' 0" x 6' 0" - Listing No. 16742-3C) C70 (1/4) (6' 0" x 6' 0" - Listing No. 16742-3C)	
44.4	Milestone – Series 2000 Fixed Window (Impact)
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: 1) The windows shall be installed in accordance with the Manufacturer's Installation Drawings. 2) Fastener Size, Type and Spacing are determined by the type of construction per the Manufacturer's Installation Drawings. 3) The windows and patio doors shall not be installed in areas where the applied transverse wind loads exceed the allowable design pressure based on the following: fastener type and spacing on the installation drawings, test report design pressure	Aluminum Fixed Window with impact resistant glazing Certification Agency Certificate Installation Instructions Verified By:

and/or glass load resistance determined from ASTM E-1300. 4) MILESTONE Impact Resistant Windows have not been evaluated for use in High Velocity Hurricane Zones (Broward and Dade Counties) as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Residential and 2004 Florida Building Code-Residential and shall not be used in the HVHZ. 5) MILESTONE Impact Resistant Windows have been evaluated for use in Wind-Borne Debris Regions as defined in the 2001 Florida Building Code, 2004 Florida Building Code-Building and 2004 Florida Building Code-Residential that lie outside the High Velocity Hurricane Zones (Broward and Dade counties). 6) Performance Ratings and Certification Agency Listing No. R/C60 (6' 0" x 5' 0" - Listing No. 16742-3D) R/C60 (6' 2" x 4' 0" - Listing No. 16742-3D) R/C60 (12' 0" x 2' 0" - Listing No. 16742-3D)

[Back](#)[Next](#)

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

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Product Approval Accepts:



Residential System Sizing Calculation

Summary

Dilip & Priya Kapadia

Project Title:
Sky Designs - Dilip & Priya Kapadia

Code Only
Professional Version
Climate: North

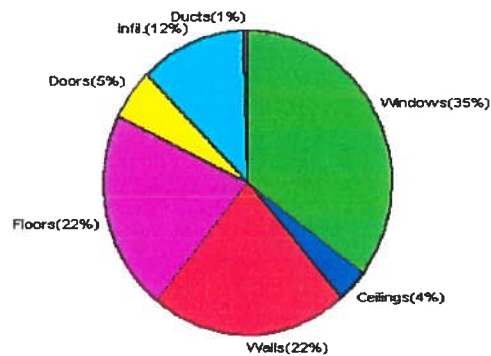
7/20/2006

Location for weather data: Tallahassee - Defaults: Latitude(30) Altitude(55 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (76F) Humidity difference(46gr.)			
Winter design temperature	28 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	42 F	Summer temperature difference	18 F
Total heating load calculation	53812 Btuh	Total cooling load calculation	41857 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	139.4 75000	Sensible (SHR = 0.75)	142.3 56250
Heat Pump + Auxiliary(10.0kW)	202.8 109130	Latent	806.5 18750
		Total (Electric Heat Pump)	179.2 75000

WINTER CALCULATIONS

Winter Heating Load (for 3284 sqft)

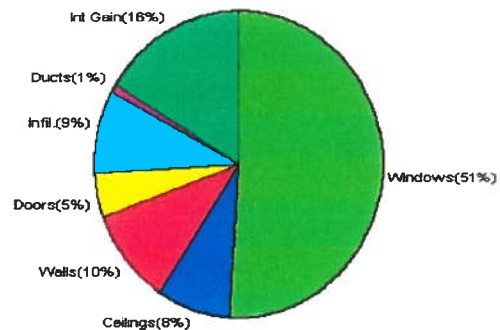
Load component		Load
Window total	519 sqft	18964 Btuh
Wall total	3175 sqft	11836 Btuh
Door total	193 sqft	2839 Btuh
Ceiling total	1460 sqft	1953 Btuh
Floor total	See detail report	11714 Btuh
Infiltration	135 cfm	6204 Btuh
Duct loss		302 Btuh
Subtotal		53812 Btuh
Ventilation	0 cfm	0 Btuh
TOTAL HEAT LOSS		53812 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 3284 sqft)

Load component		Load
Window total	519 sqft	21313 Btuh
Wall total	3175 sqft	4227 Btuh
Door total	193 sqft	1960 Btuh
Ceiling total	1460 sqft	3394 Btuh
Floor total		76 Btuh
Infiltration	72 cfm	1424 Btuh
Internal gain		6800 Btuh
Duct gain		337 Btuh
Sens. Ventilation	0 cfm	0 Btuh
Total sensible gain		39532 Btuh
Latent gain(ducts)		74 Btuh
Latent gain(infiltration)		2250 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		0 Btuh
Total latent gain		2325 Btuh
TOTAL HEAT GAIN		41857 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: M. Kaplan

DATE: 7/24/06

BUILDING INPUT SUMMARY REPORT

PROJECT	Title:	Sky Designs - Dilip & Priya	Family Type:	Single	Address Type:	Street Address		
	Owner:	Dilip & Priya Kapadia	New/Existing:	New	Lot #:	N/A		
	# of Units:	1	Bedrooms:	4	Subdivision:	N/A		
	Builder Name:	(blank)	Conditioned Area:	3284	Platbook:	N/A		
	Climate:	North	Total Stories:	2	Street:	(blank)		
	Permit Office:	(blank)	Worst Case:	No	County:	(blank)		
	Jurisdiction #:	(blank)	Rotate Angle:	(blank)	City, St, Zip:	, ,		
FLOORS	#	Floor Type	R-Val	Area/Perimeter	Units			
	1	Slab-On-Grade Edge Insulation	0.0	224.0(p) ft	1			
	2	Raised Wood/Stem Wall	3.0	172.0ft²	1			
DOORS	#	Door Type	Orientation	Area	Units			
	1	Insulated	Exterior	40.8 ft²	2			
	2	Insulated	Exterior	40.8 ft²	1			
	3	Insulated	Exterior	34.0 ft²	1			
	4	Insulated	Exterior	20.4 ft²	1			
	1 Other(s) - 16.3 ft²							
CEILINGS	#	Ceiling Type	R-Val	Area	Base Area	Units		
	1	Under Attic	30.0	1460.0 ft²	1460.0 ft²	1		
	Credit Multipliers: None							
COOLING	#	System Type	Efficiency	Capacity				
	1	Central Unit	SEER: 13.00	40.0 kBtu/hr				
	2	Central Unit	SEER: 13.00	35.0 kBtu/hr				
	Credit Multipliers: None							
WALLS	#	Wall Type	Location	R-Val	Area	Units		
	1	Face Brick - Wood	Exterior	13.0	3175.0 ft²	1		
HEATING	#	System Type	Efficiency	Capacity				
	1	Electric Heat Pump	COP: 8.00	40.0 kBtu/hr				
	2	Electric Heat Pump	COP: 7.70	35.0 kBtu/hr				
	Credit Multipliers: None							
DUCTS	#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length		
	1	Uncond.	Uncond.	Garage	6.0	45.0 ft		
	2	Uncond.	Uncond.	Attic	6.0	45.0 ft		
	Credit Multipliers: None							
WATER	#	System Type	EF	Cap.	Conservation Type	Con. EF		
	1	Electric Resistance	0.92	50.0	None	0.00		
REFR.	#	Use Default?	Annual Operating Cost	Electric Rate				
	1	Yes	N/A	N/A				
WINDOWS	#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
	1	Double	Clear	N	12.0 ft²	1.5 ft	3.0 ft	1
	2	Double	Clear	E	15.0 ft²	1.5 ft	15.0 ft	2
	3	Double	Clear	E	15.0 ft²	1.5 ft	6.0 ft	2
	4	Double	Clear	E	24.0 ft²	1.5 ft	5.0 ft	1
	5	Double	Clear	N	4.0 ft²	1.5 ft	3.0 ft	1
	6	Double	Clear	NE	15.0 ft²	1.5 ft	14.0 ft	2
	7	Double	Clear	SE	15.0 ft²	1.5 ft	14.0 ft	2
	8	Double	Clear	NE	15.0 ft²	1.5 ft	6.0 ft	2
	9	Double	Clear	SE	15.0 ft²	1.5 ft	6.0 ft	2
	10	Double	Clear	S	15.0 ft²	1.5 ft	15.0 ft	4
	11	Double	Clear	S	6.0 ft²	1.5 ft	12.0 ft	1
	12	Double	Clear	S	15.0 ft²	1.5 ft	6.0 ft	4
	13	Double	Clear	S	6.0 ft²	1.5 ft	4.0 ft	1
	14	Double	Clear	W	25.0 ft²	1.5 ft	6.0 ft	1
	15	Double	Clear	S	15.0 ft²	1.5 ft	6.0 ft	2
	16	Double	Clear	W	25.0 ft²	1.5 ft	15.0 ft	1
	17	Double	Clear	W	21.0 ft²	1.5 ft	17.0 ft	2
	18	Double	Clear	W	9.0 ft²	1.5 ft	13.0 ft	1
19	Double	Clear	S	36.0 ft²	1.5 ft	16.0 ft	1	
MISC	Rater Name:	CodeOnlyPro	Class #:	3	Pool Size:	0		
	Rater Certification #:	CodeOnlyPro	Duct Leakage Type:	N/A	Pump Size:	0.00 hp		
	Area Under Fluorescent:	0.0	Visible Duct Disconnects:	N/A	Dryer Type:	Electric		
	Area Under Incandescent:	3284.0	Leak Free Duct System Proposed:	No	Stove Type:	Electric		
	NOTE: Not all Rating info shown		HRV/ERV System Present?:	No	Avg Ceil Hgt:			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.7

The higher the score, the more efficient the home.

Dilip & Priya Kapadia, , , ,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 40.0 kBtu hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. Central Unit	Cap: 35.0 kBtu hr
5. Is this a worst case?	No		SEER: 13.00
6. Conditioned floor area (ft ²)	3284 ft ²	c. N A	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 40.0 kBtu hr
(or Single or Double DEFAULT)	7a. (Dble Default) 519.0 ft ²		HSPF: 8.00
b. SHGC:		b. Electric Heat Pump	Cap: 35.0 kBtu hr
(or Clear or Tint DEFAULT)	7b. (Clear) 519.0 ft ²		HSPF: 7.70
8. Floor types		c. N A	
a. Slab-On-Grade Edge Insulation	R=0.0, 224.0(p) ft	14. Hot water systems	
b. Raised Wood, Stem Wall	R=3.0, 172.0ft ²	a. Electric Resistance	Cap: 50.0 gallons
c. N A			EF: 0.92
9. Wall types		b. N A	
a. Face Brick, Wood, Exterior	R=13.0, 3175.0 ft ²	c. Conservation credits	
b. N A		(HR-Heat recovery, Solar	
c. N A		DHP-Dedicated heat pump)	
d. N A		15. HVAC credits	
e. N A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 1460.0 ft ²	PT-Programmable Thermostat,	
b. N A		MZ-C-Multizone cooling,	
c. N A		MZ-H-Multizone heating)	
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 45.0 ft		
b. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 45.0 ft		

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

Builder Signature: _____ Date: _____

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



**NOTE: The home's estimated energy performance score is only available through the FLA RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA DOE EnergyStarTM 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.*

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	3284.0	20.04	11846.0	Double, Clear	N	1.5	3.0	12.0	19.20	0.83	191.5
				Double, Clear	E	1.5	15.0	30.0	42.06	0.99	1255.2
				Double, Clear	E	1.5	6.0	30.0	42.06	0.91	1151.8
				Double, Clear	E	1.5	5.0	24.0	42.06	0.87	882.9
				Double, Clear	N	1.5	3.0	4.0	19.20	0.83	63.8
				Double, Clear	NE	1.5	14.0	30.0	29.56	1.00	883.4
				Double, Clear	SE	1.5	14.0	30.0	42.75	1.00	1280.7
				Double, Clear	NE	1.5	6.0	30.0	29.56	0.92	816.2
				Double, Clear	SE	1.5	6.0	30.0	42.75	0.88	1133.0
				Double, Clear	S	1.5	15.0	60.0	35.87	0.99	2132.2
				Double, Clear	S	1.5	12.0	6.0	35.87	0.98	211.8
				Double, Clear	S	1.5	6.0	60.0	35.87	0.86	1842.5
				Double, Clear	S	1.5	4.0	6.0	35.87	0.74	159.4
				Double, Clear	W	1.5	6.0	25.0	38.52	0.91	879.7
				Double, Clear	S	1.5	6.0	30.0	35.87	0.86	921.2
				Double, Clear	W	1.5	15.0	25.0	38.52	1.00	958.6
				Double, Clear	W	1.5	17.0	42.0	38.52	1.00	1611.4
				Double, Clear	W	1.5	13.0	9.0	38.52	0.99	344.9
				Double, Clear	S	1.5	16.0	36.0	35.87	0.99	1280.0
				As-Built Total:				519.0	18000.2		
WALL TYPES				Area X BSPM = Points							
				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Face Brick, Wood, Exterior	13.0		3175.0	0.35		1111.3	
Exterior	3175.0	1.70	5397.5								
Base Total:								3175.0	5397.5		
				As-Built Total:				3175.0	1111.3		
DOOR TYPES				Area X BSPM = Points							
				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Insulated			34.0	4.10		139.4	
Exterior	193.1	4.10	791.8	Exterior Insulated			81.6	4.10		334.6	
				Exterior Insulated			20.4	4.10		83.6	
				Exterior Insulated			40.8	4.10		167.3	
				Exterior Insulated			16.3	4.10		66.9	
Base Total:								193.1	791.8		
				As-Built Total:				193.1	791.8		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT			
CEILING TYPES Area X BSPM = Points				Type	R-Value	Area X SPM X SCM =	Points
Under Attic	1460.0	1.73	2525.8	Under Attic	30.0	1460.0 1.73 X 1.00	2525.8
Base Total:	1460.0		2525.8	As-Built Total:		1460.0	2525.8
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM =	Points
Slab	224.0(p)	-37.0	-8288.0	Slab-On-Grade Edge Insulation	0.0	224.0(p) -41.20	-9228.8
Raised	172.0	-3.99	-686.3	Raised Wood, Stem Wall	3.0	172.0 -3.67	-631.5
Base Total:			-8974.3	As-Built Total:		396.0	-9860.3
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
	3284.0	10.21	33529.6			3284.0 10.21	33529.6
Summer Base Points: 45116.5				Summer As-Built Points: 46098.4			
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier X Credit Multiplier = Cooling Points
45116.5	0.4266	19246.7		(sys 1: Central Unit 40000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)			
				46098 0.53 (1.09 x 1.147 x 1.00) 0.263 1.000 8513.7			
				(sys 2: Central Unit 35000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)			
				46098 0.47 (1.09 x 1.147 x 1.11) 0.263 1.000 7449.5			
45116.5	0.4266	19246.7		46098.4	1.00	1.319	0.263 1.000 15963.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	3284.0	12.74	7530.9	Double, Clear	N	1.5	3.0	12.0	24.58	1.01	297.7
				Double, Clear	E	1.5	15.0	30.0	18.79	1.01	567.3
				Double, Clear	E	1.5	6.0	30.0	18.79	1.04	583.8
				Double, Clear	E	1.5	5.0	24.0	18.79	1.05	473.6
				Double, Clear	N	1.5	3.0	4.0	24.58	1.01	99.2
				Double, Clear	NE	1.5	14.0	30.0	23.57	1.00	706.1
				Double, Clear	SE	1.5	14.0	30.0	14.71	1.01	446.7
				Double, Clear	NE	1.5	6.0	30.0	23.57	1.01	711.5
				Double, Clear	SE	1.5	6.0	30.0	14.71	1.10	483.6
				Double, Clear	S	1.5	15.0	60.0	13.30	0.99	793.4
				Double, Clear	S	1.5	12.0	6.0	13.30	1.00	79.5
				Double, Clear	S	1.5	6.0	60.0	13.30	1.12	891.7
				Double, Clear	S	1.5	4.0	6.0	13.30	1.34	107.1
				Double, Clear	W	1.5	6.0	25.0	20.73	1.02	530.4
				Double, Clear	S	1.5	6.0	30.0	13.30	1.12	445.8
				Double, Clear	W	1.5	15.0	25.0	20.73	1.00	519.0
				Double, Clear	W	1.5	17.0	42.0	20.73	1.00	871.7
				Double, Clear	W	1.5	13.0	9.0	20.73	1.00	186.9
				Double, Clear	S	1.5	16.0	36.0	13.30	0.99	476.2
				As-Built Total:				519.0	9271.2		
WALL TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Face Brick, Wood, Exterior		13.0	3175.0	3.17	10080.6		
Exterior	3175.0	3.70	11747.5								
Base Total:		3175.0	11747.5	As-Built Total:		3175.0		10080.6			
DOOR TYPES				Area X BWPM = Points		Type	Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated		34.0	8.40	285.6			
Exterior	193.1	8.40	1622.2	Exterior Insulated		81.6	8.40	685.4			
				Exterior Insulated		20.4	8.40	171.4			
				Exterior Insulated		40.8	8.40	342.7			
				Exterior Insulated		16.3	8.40	137.1			
Base Total:		193.1	1622.2	As-Built Total:		193.1		1622.2			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT			
CEILING TYPES Area X BWPM = Points				Type	R-Value	Area X WPM X WCM =	Points
Under Attic	1460.0	2.05	2993.0	Under Attic	30.0	1460.0 2.05 X 1.00	2993.0
Base Total:	1460.0		2993.0	As-Built Total:		1460.0	2993.0
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM =	Points
Slab	224.0(p)	8.9	1993.6	Slab-On-Grade Edge Insulation	0.0	224.0(p) 18.80	4211.2
Raised	172.0	0.96	165.1	Raised Wood, Stem Wall	3.0	172.0 2.69	461.9
Base Total:			2158.7	As-Built Total:		396.0	4673.1
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
	3284.0	-0.59	-1937.6			3284.0 -0.59	-1937.6
Winter Base Points:			24114.7	Winter As-Built Points:			26702.6
Total Winter X System = Heating Points Multiplier Points				Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
				(sys 1: Electric Heat Pump 40000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 26702.6 0.533 (1.069 x 1.169 x 1.00) 0.426 1.000 7965.2 (sys 2: Electric Heat Pump 35000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0 26702.6 0.467 (1.069 x 1.169 x 1.10) 0.443 1.000 7241.1 26702.6 1.00 1.312 0.434 1.000 15200.8			
24114.7	0.6274		15129.6				

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit = Total Multiplier
4		2635.00	10540.0	50.0	0.92	4		1.00	2635.00	1.00 10540.0
				As-Built Total:						10540.0

CODE COMPLIANCE STATUS

BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
19247		15130		10540	44916	15963		15201		10540	41704

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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