Columbia County Building Permit Application

chk # 5011

For Office Use Only Application # 0710-34 Date Received 10/17/07 By GP Permit # 14751/26419

Application Approved by - Zoning Official BLK Date 22.10.07 Plans Examiner OK STH Date 10-18-07

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

Comments

NOC ☐ EH ☑ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Perm

Dropped off by Linda Roder

Name Authorized Person Signing Permit Sedrix Davis Phone 954-785-4936 Fax

Address 336 NW 8th St Pompano Beach, FL 33060

Owner's Name Sedrix Davis Phone 954-785-4936

911 Address 208 SW Red Maple Way Lake City FL 32024

Contractors Name Owner Builder Sedrix Davis Phone

Address 336 NW 8th St. Pompano Beach, FL 33060

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers Nick Geisler

Mortgage Lenders Name & Address NA

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

Property ID Number 03-4S-16-02732-103 Estimated Cost of Construction 90 120K

Subdivision Name Laurel Lakes Lot 3 Block Unit Phase

Driving Directions 90 W, L on SW Pinemount Rd (CCR 252W) L on SW Red Maple Way, 2nd lot on R past Camphor Ct.

Type of Construction Sfd Number of Existing Dwellings on Property 0

Total Acreage .5 Lot Size .5 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dr

Actual Distance of Structure from Property Lines - Front 50' Side 39'-5" Side 33'-6" Rear 57'4"

Total Building Height 23'4" Number of Stories 1 Heated Floor Area 1893 Roof Pitch 8-12

TOTAL 2864

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.

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

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

X Sedrix Davis

Owner Builder or Authorized Person by Notarized Letter

Contractor Signature

Contractors License Number

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Sworn to (or affirmed) and subscribed before me this 17 day of October 20 07.

Personally known ____ or Produced Identification ✓

Notary Signature

(Revised Sept. 20)

FROM :COLUMBIA CO BUILDING + ZONING FAX NO. :386-758-2160 Mar. 12 2007 01:00PM P1

STOP WORK

Columbia County
JURISDICTION

OFFICE OF BUILDING OFFICIAL

NOTICE

This building has been inspected and

- ☑ General Construction
- ☐ Concrete, Masonry and Finish Cement Work
- ☐ Lathing
- ☐ Plastering
- ☐ Elevators
- ☐ Plumbing
- ☐ Mechanical Work
- ☐ Electric Wiring
- ☐ Gas Piping

IS NOT ACCEPTED

Please correct as noted below before any further work is done.

— NOTE —

2/28/08 — Date

Harry Dicks — Inspector

Do Not Remove This Notice

DETACH and Bring this Portion of Card With You.

Location: 208 SW Red Maple Way

Date 2/28 08

Columbia County
JURISDICTION

FORM 400.7
B-9

Harry Dicks
INSPECTOR

Date	Inspection	Inspect.	Owner	Pass	Location	Permit
01/17/08	Final	HD-WR	Cooks Heat & Air - Brashear	Not Ready	Deerwood Forest Lot 17 U-1	26374
01/18/08	Recheck Final		Cooks Heat & Air - Brashear	Cancelled	Deerwood Forest Lot 17	26374
01/29/08	Final	Harry	Cooks Heat & Air - Brashear	Not Right	Deerwood Forest Lot 17 U-1	26374

11-14-07

To whom this may concern I Sedrix Davis do hereby give Calvin twensey permisson to pull building permits and to conduct any other business concerning the development of this property. I give him the right to sign my name to any forms necessary. Concerning Laurel Lake Lot 3 Columbia County, FL

Sedrix Davis

Terrance M. Fuller
Commission # DD348762
Expires: OCT. 08, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Sedrix Davis

State of Florida
County of Broward
Done this 14th day of Nov. 2007.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001475

DATE 11/14/2007 PARCEL ID # 03-4S-16-02732-103

APPLICANT CALVIN TWENSEY PHONE 758-4511

ADDRESS 201 SW PAUL ALLISON CT LAKE CITY FL 32024

OWNER SEDRIX DAVIS PHONE 954-785-4936

ADDRESS 208 SW RED MAPLE WAY LAKE CITY FL 32024

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 90 W, L PINEMOUNT RD, L RED MAPLE WAY, 2ND LOT ON THE RIGHT PAST CAMPHOR CT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT LAUREL LAES 3

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

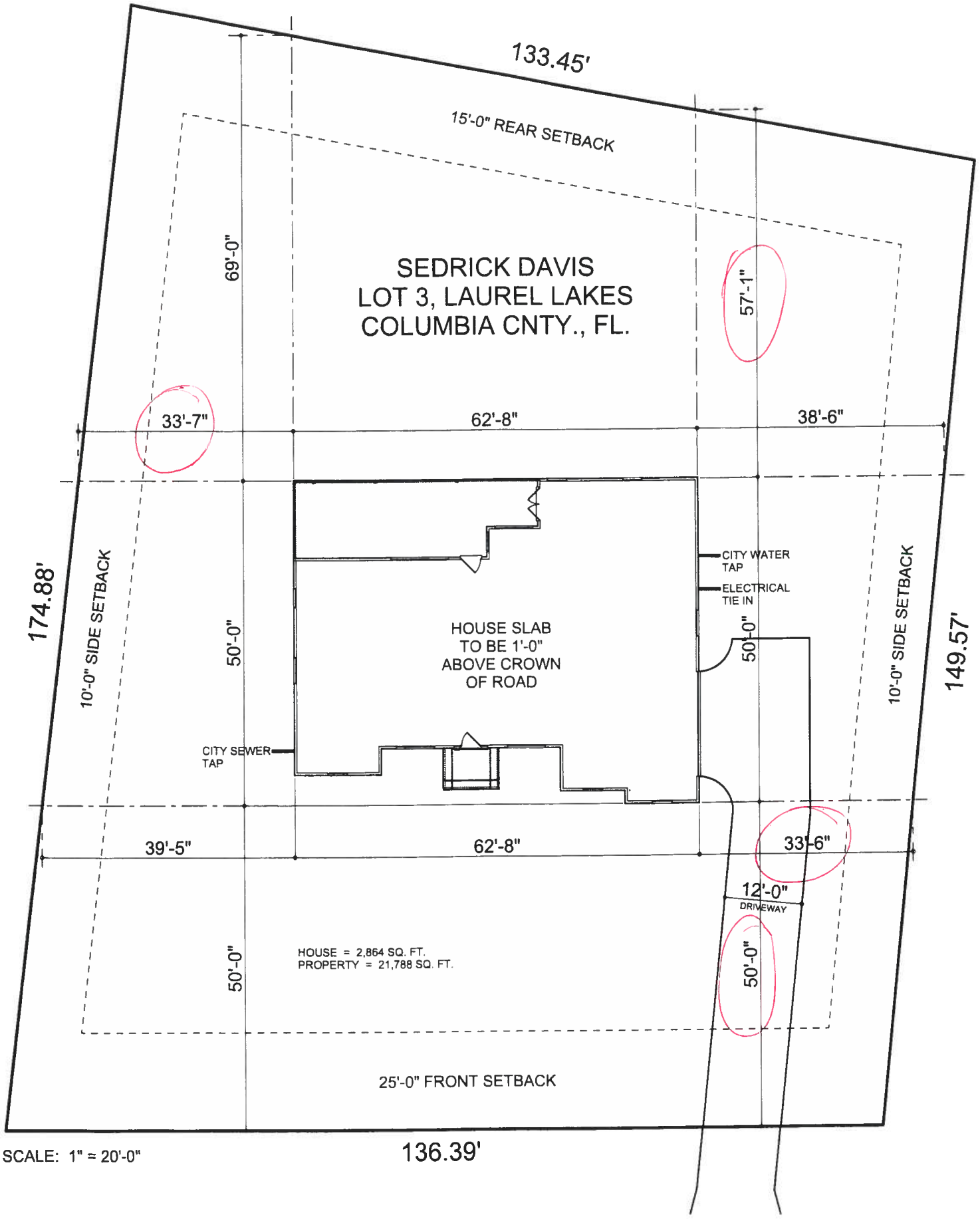
[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00


133.45'
15'-0" REAR SETBACK
69'-0"
SEDRICK DAVIS
LOT 3, LAUREL LAKES
COLUMBIA CNTY., FL.
57'-1"
33'-7"
62'-8"
38'-6"
174.88'
10'-0" SIDE SETBACK
50'-0"
HOUSE SLAB
TO BE 1'-0"
ABOVE CROWN
OF ROAD
CITY WATER
TAP
ELECTRICAL
TIE IN
50'-0"
10'-0" SIDE SETBACK
149.57'
CITY SEWER
TAP
39'-5"
62'-8"
33'-6"
12'-0"
DRIVEWAY
50'-0"
HOUSE = 2,864 SQ. FT.
PROPERTY = 21,788 SQ. FT.
50'-0"
25'-0" FRONT SETBACK
136.39'

SCALE: 1" = 20'-0"

YW/JG
31423.001

THIS INSTRUMENT PREPARED BY AND RETURN TO:

Cohen, Norris, Scherer, Weinberger & Wolmer
712 U.S. Highway One, Suite 400
North Palm Beach, Fl 33408

Inst:200712020468 Date:9/10/2007 Time:12:49 PM
Doc Stamp-Deed:336.00
DC,P.DeWitt Cason ,Columbia County Page 1 of 2

Property Appraisers Parcel Identification (Folio) Number: 03-4S-16-02732-103

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED, made the 7th day of September, 2007 by KATHY E. GALLIN, A MARRIED WOMAN, herein called the Grantor, whose post office address is 118 CHERRY LAUREL DRIVE, JUPITER, FL 33458 to SEDRIX Q. DAVIS, A MARRIED MAN, whose post office address is 336 NW 8TH STREET, POMPANO BEACH, FL 33060, hereinafter called the Grantee:

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

W I T N E S S E T H: That the Grantor, for and in consideration of the sum of TEN AND 00/100'S ($10.00) Dollars 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, State of Florida, viz.:

Lot 3, Laurel Lake, according to the map or plat thereof, as recorded in Plat Book 7, Page 9, of the Public Records of Columbia County, Florida.

SUBJECT TO easements, restrictions and reservations of record and to taxes for the year 2007 and thereafter.

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

GRANTOR STATES THAT SUBJECT PROPERTY IS VACANT LAND AND NOT THE HOMESTEAD OF HER SELF OR HER SPOUSE AND THAT SHE RESIDES AT 118 CHERRY LAUREL DRIVE, JUPITER, FL 33458.

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, and hereby 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, 2006.

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

Signed, sealed and delivered in the presence of:

Witness #1 Signature

JANIS H. GADARIAN
Witness #1 Printed Name

Witness #2 Signature

Carol Schmidt
Witness #2 Printed Name

Kathy E. Gallin
KATHY E. GALLIN

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 7th day of September, 2007 by KATHY E. GALLIN who is personally known to me or has produced DRIVER'S LICENSE as identification.

SEAL

JANIS H. GADARIAN
MY COMMISSION # DD 644802
EXPIRES: March 31, 2011
Bonded Thru Notary Public Underwriters

Notary Public

Printed Notary Name

NOTORIZED DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling
( ) Farm Outbuilding
( ) Two-Family Residence
( ) Other_____

NEW CONSTRUCTION OR IMPROVEMENT

( ) New Construction
( ) Addition, Alteration, Modification or other Improvement

I Sedrix Davis, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number _____

Sedrix Davis
Owner Builder Signature Date

The above signer is personally known to me or produced identification Drivers License

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Notary Signature Linda R. Roder Date 10-15-07 (Stamp / Seal)

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date 11-14-07 Building Official/Representative _____

Columbia County, Florida
Building & Zoning Department

Number of pages including cover sheet: 3

Date: 2-28-08

To:
Mr. Lambert

Phone:
Fax: 352-333-2867

From:
Laurie Hodson
Email:
laurie_hodson@columbiacountyfla.com

Phone: 386-758-1008
Fax: 386-758-2160

Remarks: ☐ Urgent ☐ For review ☐ ASAP ☐ Please comment

Here is the information Randy Jones asked you receive.
Thank you, Laurie

STOP WORK

Columbia County
JURISDICTION

OFFICE OF BUILDING OFFICIAL

NOTICE

This building has been inspected and

- ☑ General Construction
- ☐ Concrete, Masonry and Finish Cement Work
- ☐ Lathing
- ☐ Plastering
- ☐ Elevators
- ☐ Plumbing
- ☐ Mechanical Work
- ☐ Electric Wiring
- ☐ Gas Piping

IS NOT ACCEPTED

Please correct as noted below before any further work is done.

— NOTE —

2/28/08 — Harry Dicks
Date — Inspector

Do Not Remove This Notice

DETACH and Bring this Portion of Card With You.

Location: 208 SW Red Maple Way

Date 2/28 08

Columbia County
JURISDICTION

FORM 400.7
B-9

Harry Dicks
INSPECTOR

FORM 600A-2004R Tested sealed ducts must be certified in this house. EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Sedrick Davis**	Builder:	**Owner**
Address:	**Lot: 3, Sub: Laurel Lake, Plat:**	Permitting Office:	Columbia Co.
City, State:	**Lake City, FL 32025-**	Permit Number:	26415
Owner:	**Custom Residence**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 44.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	1893 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 378.1 ft²	a. Electric Heat Pump	Cap: 44.0 kBtu/hr
b. SHGC:			HSPF: 7.70
(or Clear or Tint DEFAULT)	7b. (Clear) 378.1 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=5.0, 216.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 80.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1207.9 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 270.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	PT,
a. Under Attic	R=30.0, 2000.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts(Leak Free)			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 45.0 ft		
b. N/A			

Glass/Floor Area: 0.20 Total as-built points: 24055 Total base points: 25164 **PASS**

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

PREPARED BY: _____

DATE: _____ 9-17-07

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

OWNER/AGENT: _____

DATE: 10-15-07

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1893.0	18.59	6334.0	1.Double, Clear	W	13.5	10.0	63.0	38.52	0.47	1131.0	
				2.Double, Clear	W	13.5	10.0	20.0	38.52	0.47	359.0	
				3.Double, Clear	S	31.5	10.0	21.0	35.87	0.43	325.0	
				4.Double, Clear	W	8.5	10.0	42.0	38.52	0.57	916.0	
				5.Double, Clear	S	8.0	10.0	35.6	35.87	0.55	705.0	
				6.Double, Clear	W	1.5	10.0	42.0	38.52	0.98	1583.0	
				7.Double, Clear	N	1.5	8.0	16.0	19.20	0.97	297.0	
				8.Double, Clear	E	1.5	10.0	60.0	42.06	0.98	2468.0	
				9.Double, Clear	E	1.5	10.0	20.0	42.06	0.98	822.0	
				10.Double, Clear	E	7.5	12.0	13.3	42.06	0.65	365.0	
				11.Double, Clear	E	7.5	12.0	12.5	42.06	0.65	342.0	
				12.Double, Clear	E	1.5	8.0	15.0	42.06	0.96	604.0	
				13.Double, Clear	S	1.5	8.0	2.7	35.87	0.92	88.0	
				14.Double, Clear	S	1.5	8.0	15.0	35.87	0.92	496.0	
				As-Built Total:				**378.1**			**10501.0**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	270.0	0.70	189.0	1. Frame, Wood, Exterior	13.0	1207.9	1.50	1811.9
Exterior	1207.9	1.70	2053.4	2. Frame, Wood, Adjacent	13.0	270.0	0.60	162.0
Base Total:	**1477.9**		**2242.4**	**As-Built Total:**		**1477.9**		**1973.9**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	18.0	2.40	43.2	1.Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	6.10	122.0	2.Adjacent Insulated	18.0	1.60	28.8
Base Total:	**38.0**		**165.2**	**As-Built Total:**	**38.0**		**110.8**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1893.0	1.73	3274.9	1. Under Attic	30.0	2000.0	1.73 X 1.00	3460.0
Base Total:	**1893.0**		**3274.9**	**As-Built Total:**		**2000.0**		**3460.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	216.0(p)	-37.0	-7992.0	1. Slab-On-Grade Edge Insulation	5.0	216.0(p	-36.20	-7819.2
Raised	0.0	0.00	0.0					
Base Total:			**-7992.0**	**As-Built Total:**		**216.0**		**-7819.2**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points				Area X	SPM	= Points	
	1893.0	10.21	19327.5				1893.0	10.21	19327.5	
Summer Base Points: 23352.0				**Summer As-Built Points:**						**27554.0**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 44000btuh ,SEER/EFF(13.0) Ducts Unc(S),Unc(R),Gar(AH),R6.0(INS)						
				27554	1.00	(1.09 x 1.000 x 1.00)	0.260	0.950	7418.4	
23352.0	**0.3250**	**7589.4**		**27554.0**	**1.00**	**1.090**	**0.260**	**0.950**	**7418.4**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1893.0	20.17	6873.0	1.Double, Clear	W	13.5	10.0	63.0	20.73	1.20	1561.0	
				2.Double, Clear	W	13.5	10.0	20.0	20.73	1.20	495.0	
				3.Double, Clear	S	31.5	10.0	21.0	13.30	3.66	1022.0	
				4.Double, Clear	W	8.5	10.0	42.0	20.73	1.15	1001.0	
				5.Double, Clear	S	8.0	10.0	35.6	13.30	2.38	1125.0	
				6.Double, Clear	W	1.5	10.0	42.0	20.73	1.01	875.0	
				7.Double, Clear	N	1.5	8.0	16.0	24.58	1.00	393.0	
				8.Double, Clear	E	1.5	10.0	60.0	18.79	1.01	1141.0	
				9.Double, Clear	E	1.5	10.0	20.0	18.79	1.01	380.0	
				10.Double, Clear	E	7.5	12.0	13.3	18.79	1.17	292.0	
				11.Double, Clear	E	7.5	12.0	12.5	18.79	1.17	274.0	
				12.Double, Clear	E	1.5	8.0	15.0	18.79	1.02	287.0	
				13.Double, Clear	S	1.5	8.0	2.7	13.30	1.04	36.0	
				14.Double, Clear	S	1.5	8.0	15.0	13.30	1.04	207.0	
				As-Built Total:				**378.1**			**9089.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	270.0	3.60	972.0	1. Frame, Wood, Exterior	13.0	1207.9	3.40	4106.9
Exterior	1207.9	3.70	4469.2	2. Frame, Wood, Adjacent	13.0	270.0	3.30	891.0
Base Total:	**1477.9**		**5441.2**	**As-Built Total:**		**1477.9**		**4997.9**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	18.0	11.50	207.0	1.Exterior Insulated	20.0	8.40	168.0
Exterior	20.0	12.30	246.0	2.Adjacent Insulated	18.0	8.00	144.0
Base Total:	**38.0**		**453.0**	**As-Built Total:**	**38.0**		**312.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	1893.0	2.05	3880.6	1. Under Attic	30.0	2000.0	2.05 X 1.00	4100.0
Base Total:	**1893.0**		**3880.6**	**As-Built Total:**		**2000.0**		**4100.0**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	216.0(p)	8.9	1922.4	1. Slab-On-Grade Edge Insulation	5.0	216.0(p	7.60	1641.6
Raised	0.0	0.00	0.0					
Base Total:			**1922.4**	**As-Built Total:**		**216.0**		**1641.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	1893.0	-0.59	-1116.9		1893.0	-0.59	-1116.9			
Winter Base Points:			**17453.4**	**Winter As-Built Points:**						**19023.6**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
				(sys 1: Electric Heat Pump 44000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
				19023.6	1.000	(1.069 x 1.000 x 1.00)	0.443	0.950	8555.7	
17453.4	**0.5540**	**9669.2**		**19023.6**	**1.00**	**1.069**	**0.443**	**0.950**	**8555.7**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2635.00	7905.0	80.0	0.90	3	1.00	2693.56	1.00	8080.7	
				As-Built Total:						**8080.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	Heating Points	Hot Water Points	Total Points	Cooling Points	Heating Points	Hot Water Points	Total Points
7589	**9669**	**7905**	**25164**	**7418**	**8556**	**8081**	**24055**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.4

The higher the score, the more efficient the home.

Custom Residence, Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL, 32025-

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 44.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	1893 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 378.1 ft²		a. Electric Heat Pump	Cap: 44.0 kBtu/hr
	b. SHGC:				HSPF: 7.70
	(or Clear or Tint DEFAULT) 7b.	(Clear) 378.1 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=5.0, 216.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 80.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1207.9 ft²			EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 270.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 2000.0 ft²	15.	HVAC credits	PT,
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts(Leak Free)			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 45.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

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

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

Energy Code Compliance

Duct System Performance Report

Project Name:	Sedrick Davis	Builder:	Owner
Address:		Permitting Office:	
City, State:	Lake City, FL 32025-	Permit Number:	
Owner:	Custom Residence	Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	**Total House Duct System Leakage**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ **(Q_n,tot)** ☐ **Receive credit if Q_n,tot≤ 0.03**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ **(Q_n,out)** ☐ **Receive credit if Q_n,out≤ 0.03 AND Q_n,tot≤ 0.09**

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

26419

CLIMATE PRO® FIBER GLASS BLOWING WOOL

Your home has been professionally insulated to provide a guaranteed thermal resistance.

HOMEOWNER'S NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

RECORD OF INSTALLATION

BLOWING WOOL

☑ NEW CONSTRUCTION

☐ RETROFIT

NUMBER OF BAGS USED 22

AREA INSULATED 1893 SQ. FT.

THICKNESS OF INSULATION 8.5 INCHES

R-VALUE OF INSULATION 19

IF RETROFIT:

DEPTH OF PREVIOUS INSULATION _____ INCHES

ESTIMATED R-VALUE OF PREVIOUS INSULATION _____

TYPE(S) OF PREVIOUS INSULATION IN ATTIC _____

BATTS AND ROLLS

	R-VALUE	THICKNESS	AREA INSULATED
CEILINGS	_____	_____ IN.	_____ SQ. FT.
	_____	_____ IN.	_____ SQ. FT.
WALLS	_____	_____ IN.	_____ SQ. FT.
	_____	_____ IN.	_____ SQ. FT.
FLOORS	_____	_____ IN.	_____ SQ. FT.
	_____	_____ IN.	_____ SQ. FT.

CLIMATE PRO, BAG WEIGHT - 27 LB. NOMINAL

R-VALUE	MINIMUM THICKNESS	BAGS PER 1000 SQ. FT.	MAXIMUM NET COVERAGE	MINIMUM WEIGHT PER SQ. FT.
To obtain an insulation resistance (R) of:	*Installed insulation should not be less than:*	*The number of bags per 1000 sq. ft. of net area should not be less than:*	*One bag should not cover more than:*	*The weight per sq. ft. of installed insulation should not be less than:*
11	5.25 in.	6.4	156 sq. ft.	0.173 lbs.
19	8.50 in.	11.0	91 sq. ft.	0.296 lbs.
22	9.75 in.	12.8	78 sq. ft.	0.346 lbs.
26	11.25 in.	15.2	66 sq. ft.	0.410 lbs.
30	12.75 in.	17.6	57 sq. ft.	0.475 lbs.
38	15.50 in.	22.3	45 sq. ft.	0.603 lbs.
44	17.50 in.	26.0	39 sq. ft.	0.701 lbs.
50	19.50 in.	29.8	34 sq. ft.	0.804 lbs.
60	22.75 in	36.3	28 sq. ft.	0.981 lb .

INSULATION CONTRACTOR SIGNATURE S. Sak DATE 9/23/10

COMPANY Sunco ADDRESS _____ PHONE _____

HOME BUILDER SIGNATURE _____ DATE _____

COMPANY _____ ADDRESS _____ PHONE _____

JM Johns Manville

BIC-250 10/03

North FL Permit
387 SW Kemp Ct
Lake City FL 32024

NOTICE OF COMMENCEMENT

STATE OF Florida
COUNTY OF Columbia

Inst:200712023344 Date:10/17/2007 Time:1:33 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

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: (legal description of property, and street address if available) 03-4S-16-02732-103
Lot 3 Laurel Lakes
2. General description of improvement: single family dwelling
3. Owner information:
a. Name and address: Sedrix Davis
336 NW 8th St. Pompano Beach FL 33060 b. Interest in property: home site
c. Name and address of fee simple titleholder (if other than owner): NA
4. Contractor: (name and address) owner builder Sedrix Davis
a. Phone number:
5. Surety: a. Name and address: NA
b. Phone number: c. Amount of bond $ NA
6. Lender: (name and address): NA
a. Phone number:
7. Persons with 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:
(name and address): NA
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: (name and address) NA
9. Expiration date of notice of commencement (the expiration date is one (1) year from the date of recording unless a different date is specified)

This Space for Clerk's Use Only

X Sedrix Davis
(signature of owner)

Sworn to and subscribed before me
this _____ day of _____, _____

Linda R. Roder
NOTARY PUBLIC

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Certified Residential Contractor,
Florida State License # CRC1328025

26419

Whiddon Construction Company

582 NW Brook Loop, Lake City FL 32055
(O)386.754.7367 or (C)386.867.0812

March 25, 2008

Mr. Harry Dicks
Columbia County Building Department
135 NE Hernando Ave.
Lake City, FL 32055

Re: Permit No. 26419 – Sedrix Davis

Dear Harry,

This letter is to inform you that Whiddon Construction Co., Inc. will assume responsibility for completing the framing on the subject permit for Mr. Davis. Please let me know if there is anything else I need to do.

If you need any additional information, please contact me.

Sincerely,

R Whiddon

Roger Whiddon
President
Whiddon Construction Company, Inc.

Cc: File

ROGER #.
* 867. 0812

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 03-4S-16-02732-103 **Building permit No.** 000026419

Use Classification SFD,UTILITY **Fire:** 6.42

Permit Holder OWNER BUILDER **Waste:** 16.75

Owner of Building SEDRIX DAVIS **Total:** 23.17

Location: 208 SW RED MAPLE WAY, LAKE CITY, FL

Date: 09/30/2010

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Florida Building Code Online

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authorization | Organization Search | Organization Accreditation

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

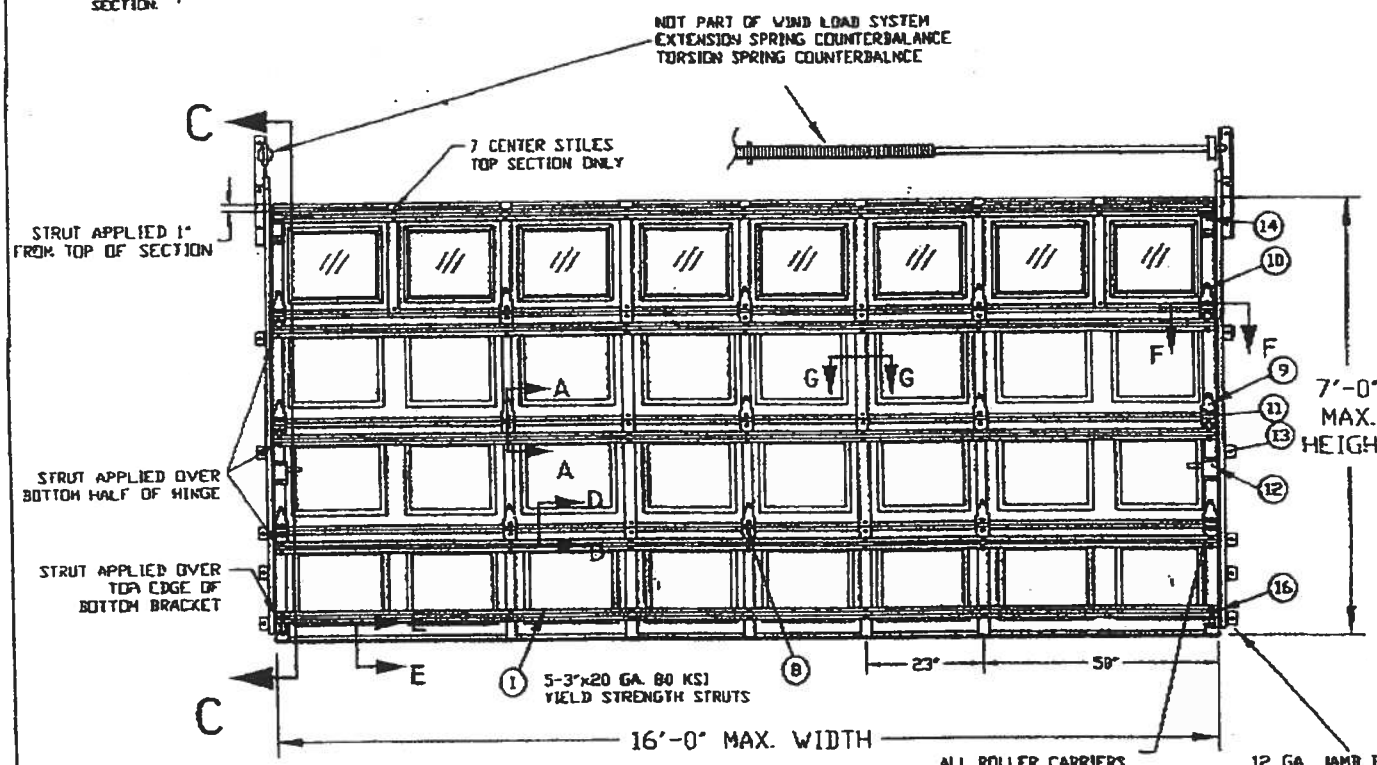
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadco.com			

Displaying 1-1 of 1

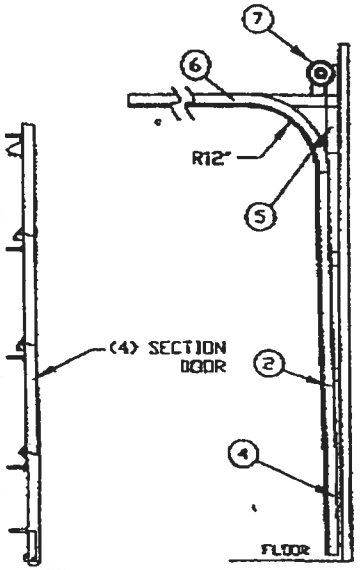
REV.	DATE	BY	DESCRIPTION
A-A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5½" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. ⚠ DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION



SEC C-C
VERTICAL TRACK, (16 GA.)

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s) of dimensions and installation(s) of the door as tested.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 WALTER R. KEEVAN

LISTED SBCCI PST & ESI
REPORT No. 2202

TEST REPORTS ON FILE: VIDEO 10/19/00 (00293)

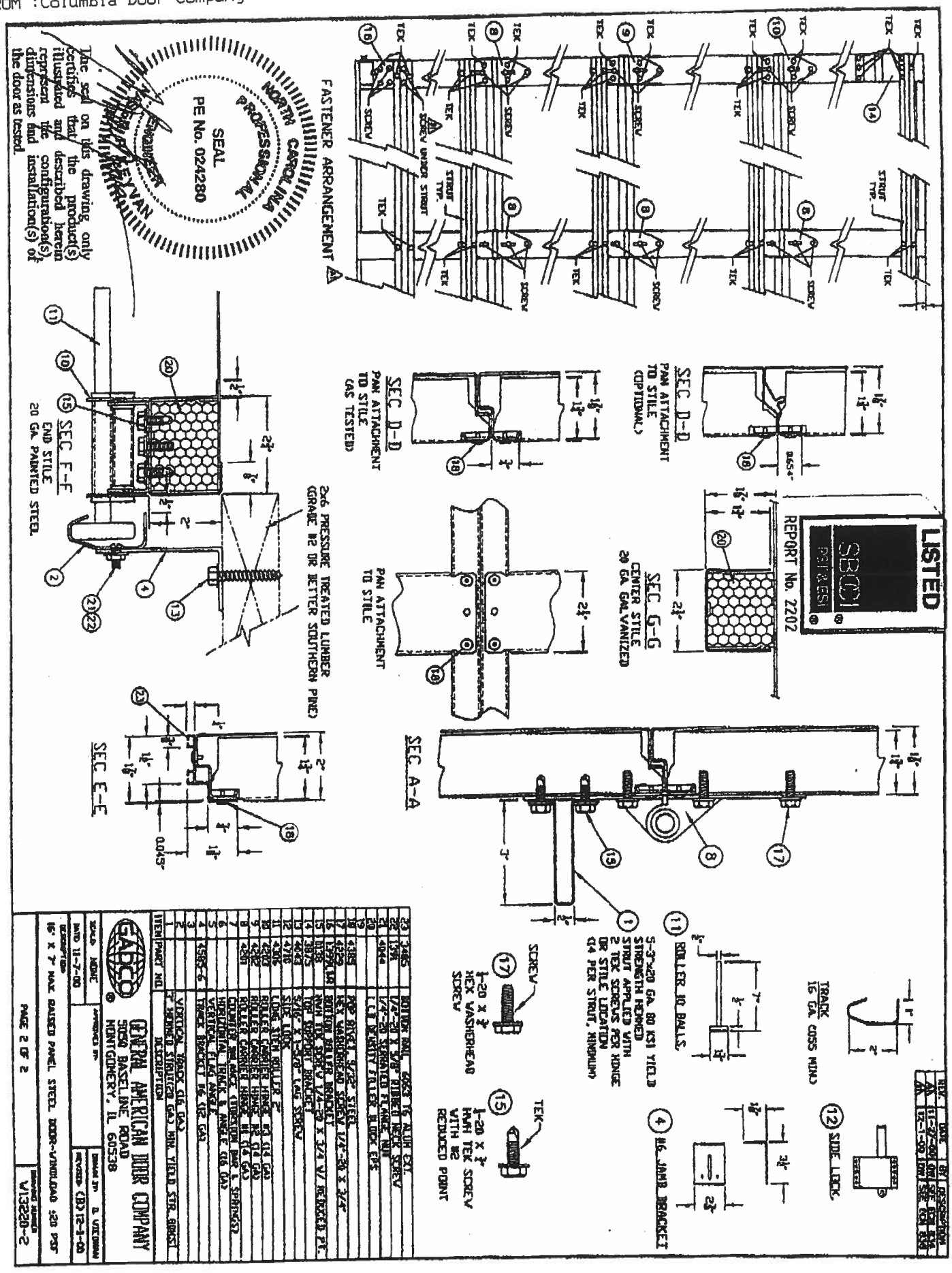
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN ⚠
SERIES 7524, EXTERIOR STEEL =.024" MIN ⚠
(TESTED) WITH WINDOWS

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

GADCO
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 3/8" | APPROVED BY: | DRAWN BY: D VICKMAN
DATE: 10-20-00 | REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PART NUMBER: PAGE 1 OF 2 | DRAWING NUMBER: W13220-1



ITEM	PART NO.	DESCRIPTION
23	3485	ROLLER PIN, GOSS 16 ALUM EXT
22	1556	1/4-20 X 5/8" RIBBED HEX SCREW
21	4048	1/4-20 SERRATED FLANGE NUT
20		CUT WEATHER FILLER BLOCK EPS
19	4388	POP RIVET, 3/32" STEEL
18	4220	HEX WASHERHEAD SCREW 1/4-20 X 3/4"
17	1279/LH	BOTTOM ROLLER BRACKET
16	0.038	MAH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
15	1875	TOP SUPPORT BRACKET
14	2403	STILE LOCK 2-5/8 GAS SCREW
13	4216	SIDE LOCK
12	4206	CONCEALED ROLLER 2"
11	4206	ROLLER CARRIER HINGE #6 (14 GA)
10	4202	ROLLER CARRIER HINGE #8 (14 GA)
9	4212	ROLLER CARRIER HINGE #8 (14 GA)
8	4210	CORNER REINFORCEMENT (CUSTOM BAR & SPRINGS)
7		HORIZONTAL TRACK & ANGLE (16 GA)
6		VERTICAL TRACK & ANGLE (16 GA)
5	4586-6	TRACK BRACKET #6 (12 GA)
4		VERTICAL TRACK (16 GA)
3		TOP HINGED STRUCTURAL (GA) MIN. YIELD STR. BRACE
2		VERTICAL STRUCTURAL (GA) MIN. YIELD STR. BRACE
1		BOTTOM STRUCTURAL (GA) MIN. YIELD STR. BRACE

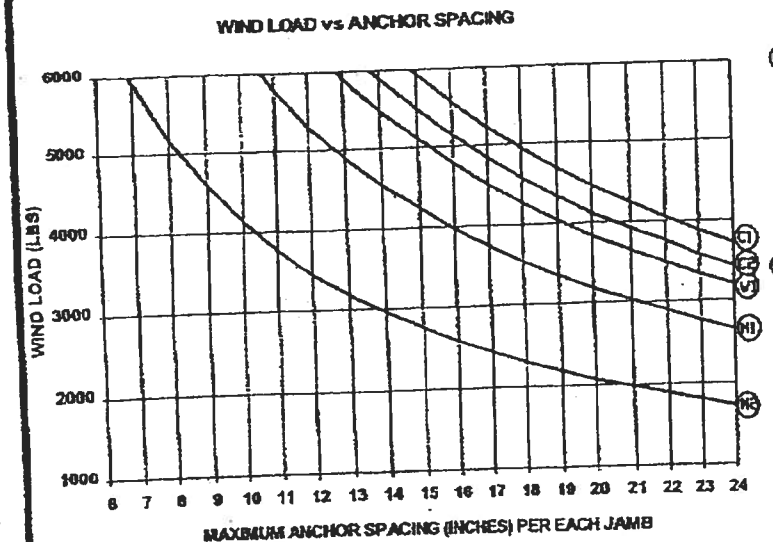
NO.	DATE	BY	DESCRIPTION
A	11-27-00	DW	ADD 804
B	12-1-00	DW	ADD 804

GABCO
GENERAL AMERICAN DOOR COMPANY
3050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE | APPROVED BY: | DRAWN BY: D. VICKERMAN
DATE: 11-7-00 | REVISED (B) 12-4-00

DESCRIPTION: 16' X 7' MAX RAISED PANEL STEEL DOOR-VANGUARD 120 PSF

PAGE 2 OF 2 | DRAWING NUMBER: V13220-2



(C1) CONCRETE BACKUP HILTI KWIK BOLT II EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(C2) CONCRETE BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(M1) MASONRY/CMU BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(M2) MASONRY/CMU BACKUP ITW BUILDEX TAPCON MASONRY ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

(W1) WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 1-1/2" EMBEDMENT

DESIGN LOAD (LBS)/FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

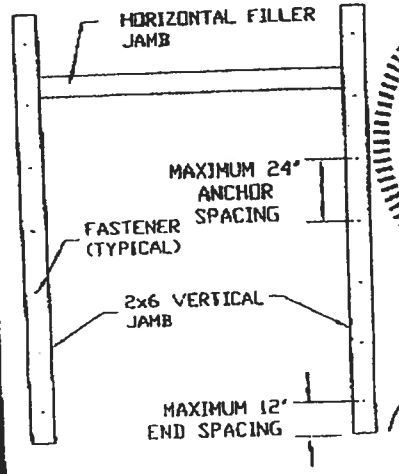
30 LBS/FT² X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

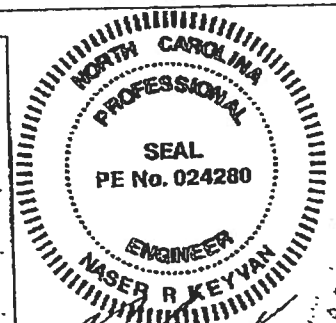
(C1) USE 22" SPACING (M1) USE 16" SPACING

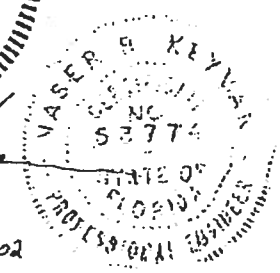
(C2) USE 21" SPACING (M2) USE 10" SPACING

(W1) USE 19" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS







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 SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION: SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: 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 C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 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.

GADCO®

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 8-30-99		REVISED

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

MASTER DRAWING NUMBER: A10560

DRAWING NUMBER:

Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer Address/Phone/Email	TAMKO Building Products, Inc. PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative Address/Phone/Email	Frederick J. O'Connor PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D 3462	2001

Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	06/09/2005
Date Validated	06/20/2005
Date Pending FBC Approval	06/25/2005
Date Approved	06/29/2005

Summary of Products

FL #	Model, Number or Name	Description

3

slopes of 2:12 or greater. Not approved for use in HVHZ.	

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

Product Approval Accepts:

4

Underwriters Laboratories Inc.®

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel 1 847 272 8800

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

4

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING 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 rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness 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.

TAMKO does not recommend re-roofing over existing roof.

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. FASTENERS

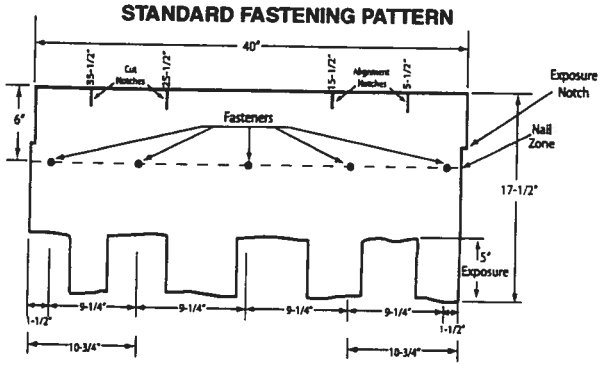
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede 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, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

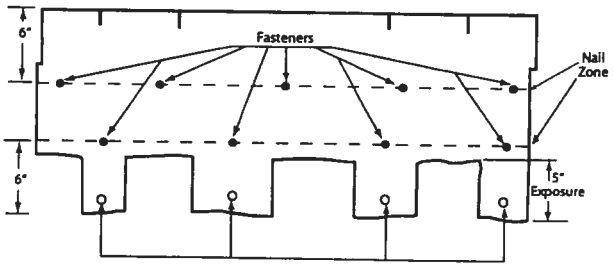
TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 1)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

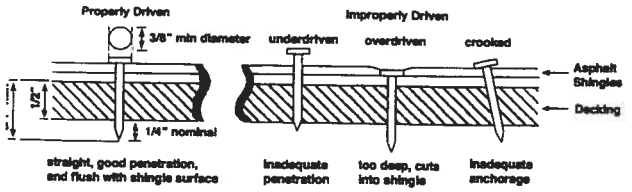
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

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. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

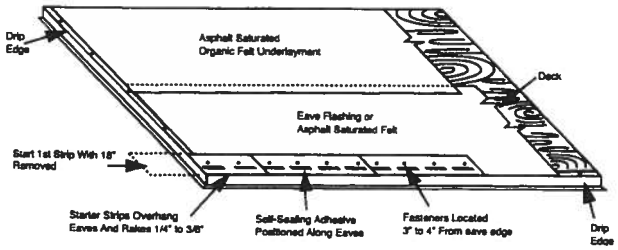
Products which are acceptable for use as underlayment are:

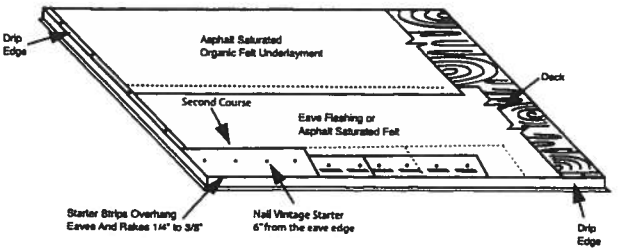
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information. TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

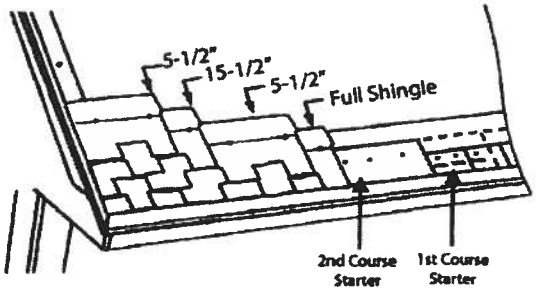
(Continued)

(CONTINUED from Pg. 2)

TAMKO BUILDING PRODUCTS

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

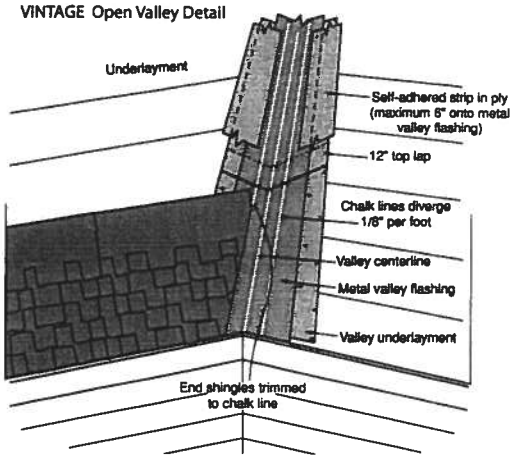
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.

- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• **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)

TAMKO® BUILDING PRODUCTS

(CONTINUED from Pg. 3)

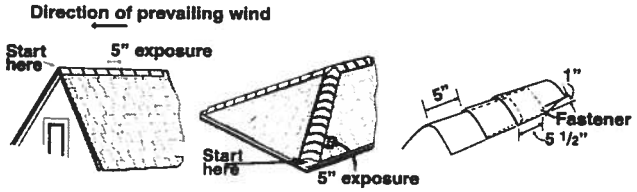
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. 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 on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

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

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



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FLORIDA DEPARTMENT OF
Community Affairs

Product Approval
USER: Public User

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	

Window

[redacted]

(ifestor / Operati e Administrator)

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Winc ows & Doors, Inc.
P.O. Bc : 370
Gratz, F A 17030-0370

Attn: ill Emley

The pr duct described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. Tl e approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, acc mpanied by related drawings, by an AAMA Accredited Laboratory.

1. The list ng below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAI AAMA/NWWDA 101/I.S. 2-97 H-R55*-38x82					
COMP/ NY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
MI Window & Doors, Inc. (Delaware, FL) MI Window & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(O)(O)(OG) (ASTM)	FRAME 3'0" x 5'2"	SASH 2'10" x 2'7"	By Request

2. This Ci rtification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certifie 1 Products Directory.

3. Produc : Tested and Reported by: Architectural Testing, Inc.

   Report No.: 01-50360.02

   Date o Report: June 14, 2004

NOTE: 'LEASE REVIEW, AND ADVIS : AL IMMEDIATELY IF DATA, / S SHOWN, NEEDS CC RRECTION.

Date: Au ust 1, 2005

Validated for Certification:

Associated Laboratories, Inc.

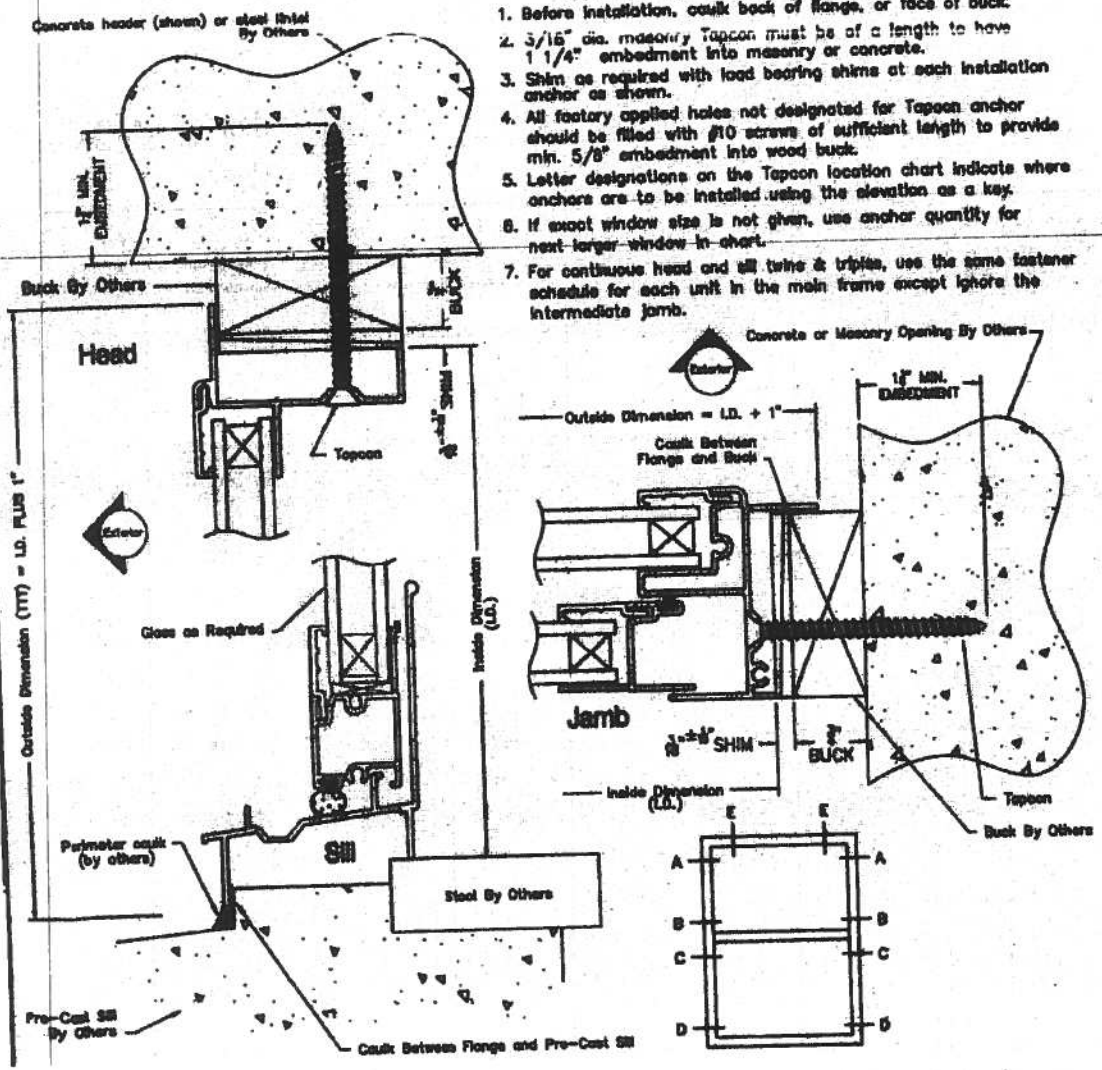
Authorized for Certification:

American Architectural Manufacturers Association

cc: AAMA
JGS/df
ACP-04 (Re /. 5/03)

"ONE BY" (3/4") BUCKS (SHOWN)

1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Tapcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.



"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

MI HOME PRODUCTS
BetterBilt / Capitol

* TAPCON LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS DP35 TO DP65	DP65.1 TO DP85	DP85.1 TO DP98.3
12	18 1/8 x 25	A D & E	A D & E	A D & E
13	18 1/8 x 37 3/8	A D & E	A D & E	A D & E
14	18 1/8 x 49 5/8	A D & E	A D & E	A D & E
15	18 1/8 x 62	A D & E	A D & E	A D & E
16	18 1/8 x 71	A D & E	A D & E	A D & E
17	18 1/8 x 83	A D & E	A D & E	A D & E
1/2 32	25 1/2 x 25	A D & E	A D & E	A D & E
1/2 33	25 1/2 x 37 3/8	A D & E	A D & E	A D & E
1/2 34	25 1/2 x 49 5/8	A D & E	A D & E	A D & E
1/2 35	25 1/2 x 62	A D & E	A D & E	A D & E
1/2 36	25 1/2 x 71	A D & E	A D & E	A D & E
1/2 37	25 1/2 x 83	A D & E	A D & E	A C, D & E
22	35 x 25	A D & E	A D & E	A D & E
23	35 x 37 3/8	A D & E	A D & E	A D & E
24	35 x 49 5/8	A D & E	A D & E	A D & E
25	35 x 62	A D & E	A D & E	A C, D & E
26	35 x 71	A D & E	A D & E	A C, D & E
27	35 x 83	A D & E	A C, D & E	A C, D & E
32	52 1/8 x 25	A D & E	A D & E	A D & E
33	52 1/8 x 37 3/8	A D & E	A D & E	A D & E
34	52 1/8 x 49 5/8	A D & E	A D & E	A C, D & E
35	52 1/8 x 62	A C, D & E	A D & E	A B, C, D & E
36	52 1/8 x 71	A C, D & E	A D & E	A B, C, D & E
37	52 1/8 x 83	A C, D & E	A D & E	A B, C, D & E
2040	23 3/8 x 47 5/8	A D & E	A D & E	A D & E
2050	23 3/8 x 59 5/8	A D & E	A D & E	A D & E
2060	23 3/8 x 71 5/8	A D & E	A D & E	A D & E
2070	23 3/8 x 83 5/8	A D & E	A D & E	A D & E
3040	35 3/8 x 47 5/8	A D & E	A D & E	A D & E
3050	35 3/8 x 59 5/8	A D & E	A D & E	A C, D & E
3060	35 3/8 x 71 5/8	A D & E	A C, D & E	A C, D & E
3070	35 3/8 x 83 5/8	A D & E	A C, D & E	A C, D & E
4040	47 3/8 x 47 5/8	A D & E	A C, D & E	A C, D & E
4050	47 3/8 x 59 5/8	A D & E	A C, D & E	A C, D & E
4060	47 3/8 x 71 5/8	A D & E	A C, D & E	A B, C, D & E
4070	47 3/8 x 83 5/8	A D & E	A C, D & E	A C, D & E
4469	51 3/8 x 59 5/8	A D & E	A C, D & E	A B, C, D & E
4469	51 3/8 x 71 5/8	A D & E	A C, D & E	A B, C, D & E
4470	51 3/8 x 83 5/8			

MI HOME PRODUCTS
GRATZ, PA

185/3185 SINGLE HUNG FLANGE FRAME
INSTALLATION DETAILS & FASTENER SCHEDULE

DRL | 09/15/04

N.T.S. | A | MIHP0059 | SHEET 1 OF 1

A	REMOVED SILL INSTALLATION ANCHOR SCREWS	3/16/04	DRL	

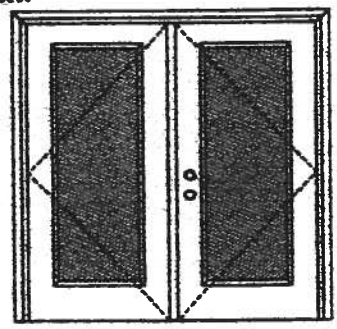
*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

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

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

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-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, 135 Series


136 Series


688 Series


822 Series

1/2 GLASS:

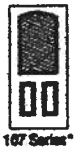

165 Series*


166, 168 Series*


129 Series*


200 Series*


12 RAL, 23 RAL, 24 RAL Series*


167 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 6-panel; Eyebrow 5-panel with scroll.

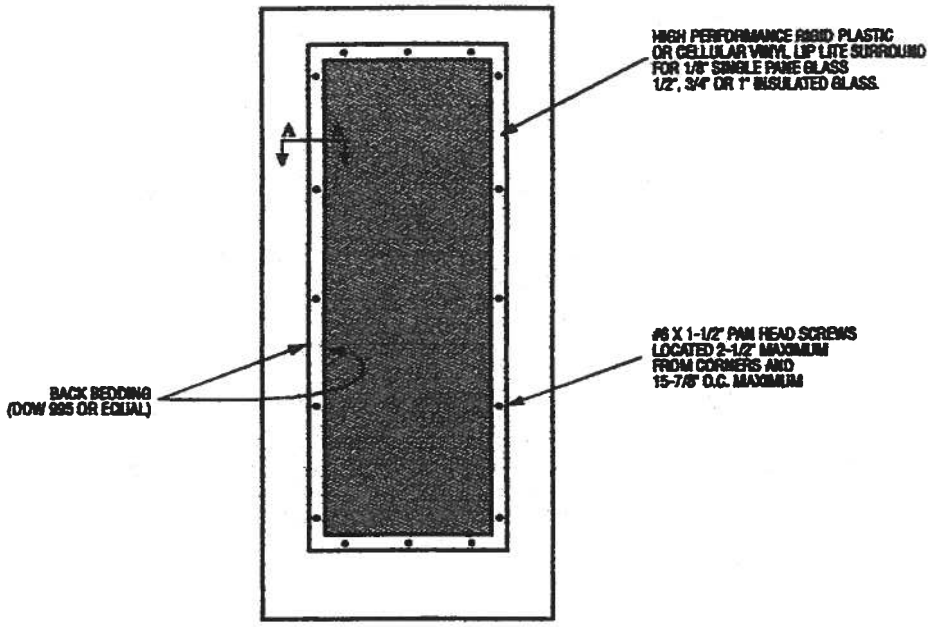
Johnson EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

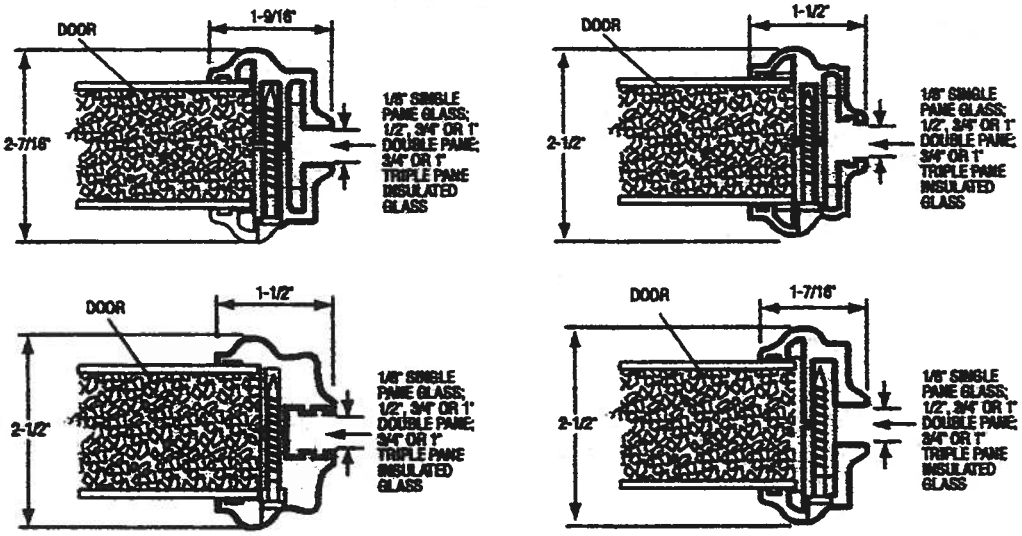
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



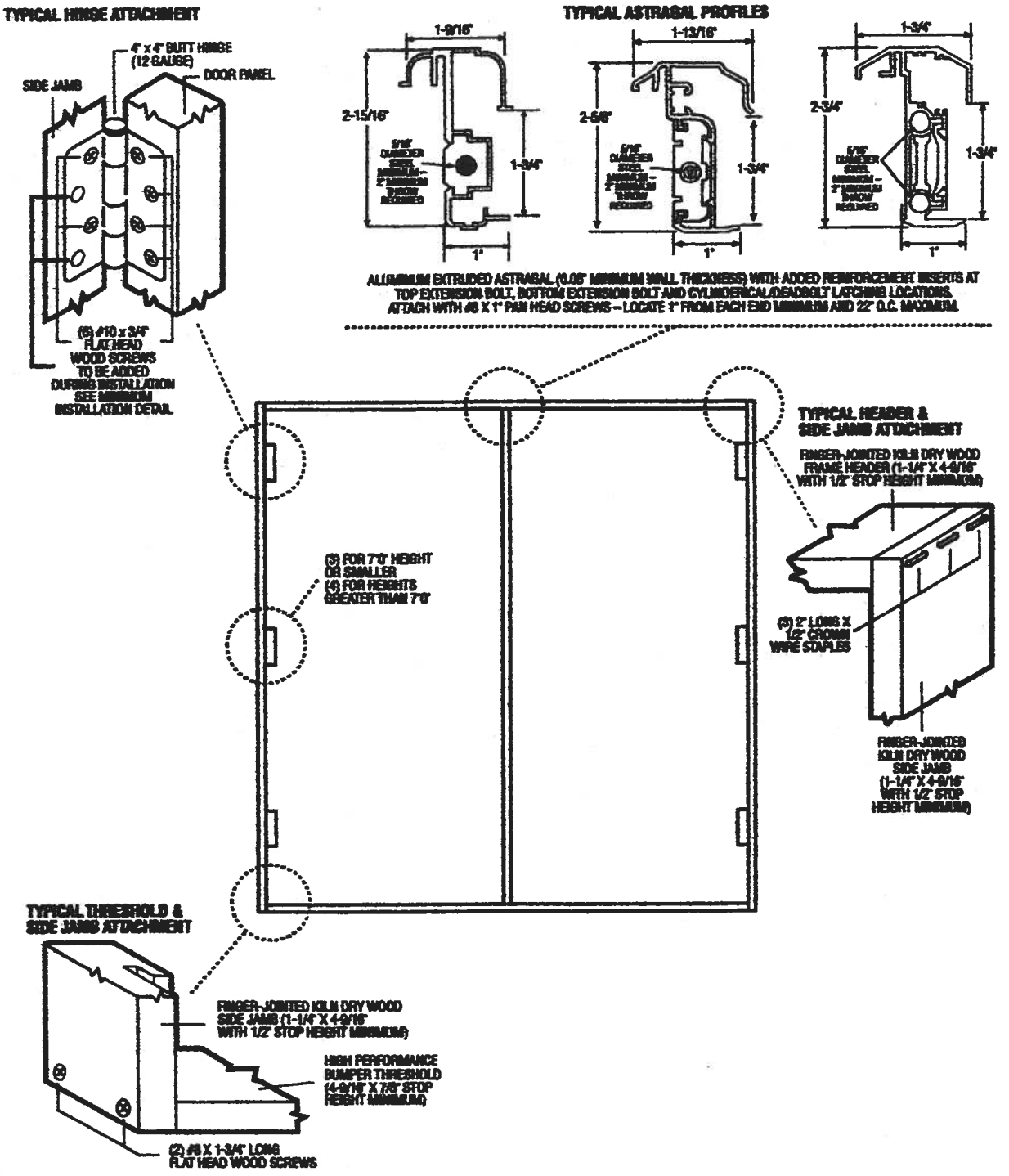
SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Unit

MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR



March 29, 2012
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Masonite International Corporation

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:


404 Series


416 Series


450 Series

FULL GLASS:


100 Series


114, 120, 122 Series


182 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 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 end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum 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).

Kurt L Balthy

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

Johnson EntrySystems

March 29, 2002
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PREMDOR Collection Premium Quality Doors

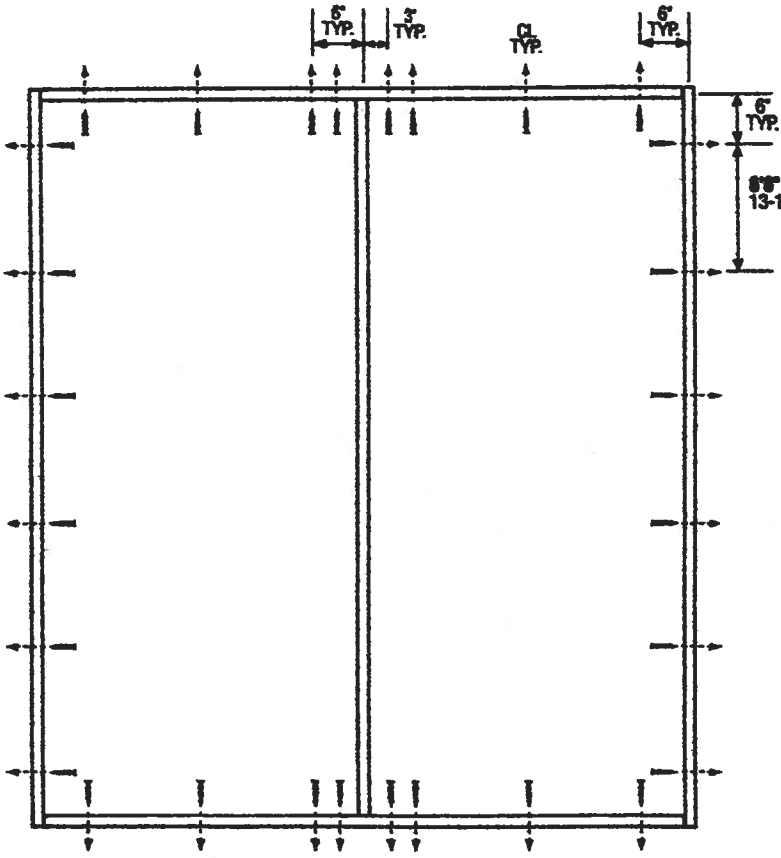
Exclusively from Masonite

Masonite International Corporation

XX
Unit

MID-WL-MA0002-02

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) cylinderical 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 Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

PREMDOR Collection
Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

Residential System Sizing Calculation

Summary

Custom Residence

Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

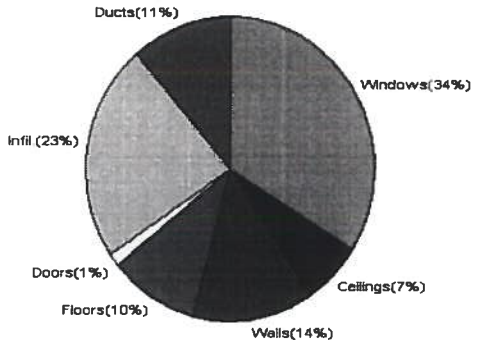
9/17/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**35626**	**Btuh**	**Total cooling load calculation**	**50433**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	123.5	44000	Sensible (SHR = 0.75)	78.2	33000
Heat Pump + Auxiliary(0.0kW)	123.5	44000	Latent	133.7	11000
			Total (Electric Heat Pump)	87.2	44000

WINTER CALCULATIONS

Winter Heating Load (for 1893 sqft)

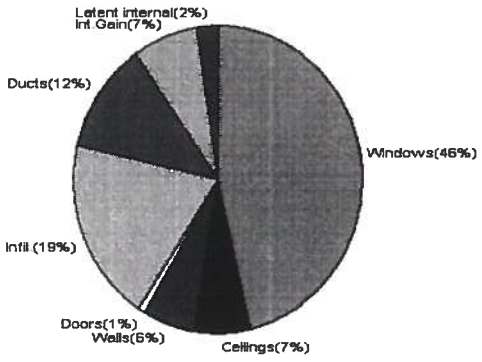
Load component			Load	
Window total	378	sqft	12170	Btuh
Wall total	1478	sqft	4854	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	2000	sqft	2357	Btuh
Floor total	216	sqft	3532	Btuh
Infiltration	202	cfm	8179	Btuh
Duct loss			4042	Btuh
Subtotal			**35626**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**35626**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1893 sqft)

Load component			Load	
Window total	378	sqft	23250	Btuh
Wall total	1478	sqft	2927	Btuh
Door total	38	sqft	372	Btuh
Ceiling total	2000	sqft	3312	Btuh
Floor total			0	Btuh
Infiltration	177	cfm	3288	Btuh
Internal gain			3780	Btuh
Duct gain			5278	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**42207**	**Btuh**
Latent gain(ducts)			569	Btuh
Latent gain(infiltration)			6457	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**8226**	**Btuh**
TOTAL HEAT GAIN			**50433**	**Btuh**



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Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 9-17-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Custom Residence
Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

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

9/17/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	63.0	32.2	2028 Btuh
2	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	S	21.0	32.2	676 Btuh
4	2, Clear, Metal, 0.87	W	42.0	32.2	1352 Btuh
5	2, Clear, Metal, 0.87	S	35.6	32.2	1145 Btuh
6	2, Clear, Metal, 0.87	W	42.0	32.2	1352 Btuh
7	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
8	2, Clear, Metal, 0.87	E	60.0	32.2	1931 Btuh
9	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
10	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
11	2, Clear, Metal, 0.87	E	12.5	32.2	402 Btuh
12	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
13	2, Clear, Metal, 0.87	S	2.7	32.2	86 Btuh
14	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
	Window Total		378(sqft)		12170 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1208	3.3	3967 Btuh
2	Frame - Wood - Adj(0.09)	13.0	270	3.3	887 Btuh
	Wall Total		1478		4854 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2000	1.2	2357 Btuh
	Ceiling Total		2000		2357Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	216.0 ft(p)	16.4	3532 Btuh
	Floor Total		216		3532 Btuh
			Envelope Subtotal:		23405 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	15144	1478 201.9	8179 Btuh
Ductload				(DLM of 0.128)	4042 Btuh
All Zones			**Sensible Subtotal All Zones**		**35626 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Custom Residence
Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

9/17/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	35626 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	35626 Btuh

EQUIPMENT

1. Electric Heat Pump	#	44000 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)

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For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Custom Residence
Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

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

9/17/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	63.0	32.2	2028 Btuh
2	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	S	21.0	32.2	676 Btuh
4	2, Clear, Metal, 0.87	W	42.0	32.2	1352 Btuh
5	2, Clear, Metal, 0.87	S	35.6	32.2	1145 Btuh
6	2, Clear, Metal, 0.87	W	42.0	32.2	1352 Btuh
7	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
8	2, Clear, Metal, 0.87	E	60.0	32.2	1931 Btuh
9	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
10	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
11	2, Clear, Metal, 0.87	E	12.5	32.2	402 Btuh
12	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
13	2, Clear, Metal, 0.87	S	2.7	32.2	86 Btuh
14	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
	Window Total		378(sqft)		12170 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1208	3.3	3967 Btuh
2	Frame - Wood - Adj(0.09)	13.0	270	3.3	887 Btuh
	Wall Total		1478		4854 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2000	1.2	2357 Btuh
	Ceiling Total		2000		2357Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	216.0 ft(p)	16.4	3532 Btuh
	Floor Total		216		3532 Btuh
			Zone Envelope Subtotal:		23405 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=
	Natural	0.80	15144	1478	201.9	8179 Btuh
Ductload	Pro. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)			(DLM of 0.128)	4042 Btuh
Zone #1			**Sensible Zone Subtotal**		**35626 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Custom Residence

Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

9/17/2007

WHOLE HOUSE TOTALS

	Subtotal Sensible	35626 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	35626 Btuh

EQUIPMENT

1. Electric Heat Pump	#	44000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Custom Residence
Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 9/17/2007

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	13.5f	10ft.	63.0	63.0	0.0	29	80	1825 Btuh
2	2, Clear, 0.87, None,N,N	W	13.5f	10ft.	20.0	20.0	0.0	29	80	579 Btuh
3	2, Clear, 0.87, None,N,N	S	31.5f	10ft.	21.0	21.0	0.0	29	34	608 Btuh
4	2, Clear, 0.87, None,N,N	W	8.5ft	10ft.	42.0	24.3	17.7	29	80	2110 Btuh
5	2, Clear, 0.87, None,N,N	S	8ft.	10ft.	35.6	35.6	0.0	29	34	1030 Btuh
6	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	42.0	0.0	42.0	29	80	3340 Btuh
7	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	16.0	0.0	16.0	29	29	463 Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	60.0	0.0	60.0	29	80	4771 Btuh
9	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	20.0	0.0	20.0	29	80	1590 Btuh
10	2, Clear, 0.87, None,N,N	E	7.5ft	12ft.	13.3	1.8	11.5	29	80	970 Btuh
11	2, Clear, 0.87, None,N,N	E	7.5ft	12ft.	12.5	0.0	12.5	29	80	994 Btuh
12	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	29	80	1193 Btuh
13	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	2.7	2.7	0.0	29	34	77 Btuh
14	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	15.0	15.0	0.0	29	34	434 Btuh
	Excursion									3266 Btuh
	Window Total				378 (sqft)					23250 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1207.9	2.1	2519 Btuh
2	Frame - Wood - Adj	13.0/0.09	270.0	1.5	407 Btuh
	Wall Total		1478 (sqft)		2927 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	18.0	9.8	176 Btuh
	Door Total	38 (sqft)		372 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2000.0	1.7	3312 Btuh
	Ceiling Total		2000 (sqft)		3312 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	216 (ft(p))	0.0	0 Btuh
	Floor Total		216.0 (sqft)		0 Btuh

			Envelope Subtotal:		29861 Btuh
Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	15144	1478	201.9	3288 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	2400	3780 Btuh
				Sensible Envelope Load:		36930 Btuh
Duct load				(DGM of 0.143)		5278 Btuh
				Sensible Load All Zones		**42207 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Custom Residence

Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

9/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**36930 Btuh**
	Sensible Duct Load	5278 Btuh
	Total Sensible Zone Loads	**42207 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**42207 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	6457 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	569 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8226 Btuh**
	TOTAL GAIN	**50433 Btuh**

EQUIPMENT

1. Central Unit	#	44000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Custom Residence
Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 9/17/2007

Component Loads for Zone #1: Main

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	W	13.5f	10ft.	63.0	63.0	0.0	29	80	1825 Btuh
2	2, Clear, 0.87, None,N,N	W	13.5f	10ft.	20.0	20.0	0.0	29	80	579 Btuh
3	2, Clear, 0.87, None,N,N	S	31.5f	10ft.	21.0	21.0	0.0	29	34	608 Btuh
4	2, Clear, 0.87, None,N,N	W	8.5ft	10ft.	42.0	24.3	17.7	29	80	2110 Btuh
5	2, Clear, 0.87, None,N,N	S	8ft.	10ft.	35.6	35.6	0.0	29	34	1030 Btuh
6	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	42.0	0.0	42.0	29	80	3340 Btuh
7	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	16.0	0.0	16.0	29	29	463 Btuh
8	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	60.0	0.0	60.0	29	80	4771 Btuh
9	2, Clear, 0.87, None,N,N	E	1.5ft	10ft.	20.0	0.0	20.0	29	80	1590 Btuh
10	2, Clear, 0.87, None,N,N	E	7.5ft	12ft.	13.3	1.8	11.5	29	80	970 Btuh
11	2, Clear, 0.87, None,N,N	E	7.5ft	12ft.	12.5	0.0	12.5	29	80	994 Btuh
12	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	29	80	1193 Btuh
13	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	2.7	2.7	0.0	29	34	77 Btuh
14	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	15.0	15.0	0.0	29	34	434 Btuh
	Window Total				378 (sqft)					19984 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1207.9	2.1	2519 Btuh
2	Frame - Wood - Adj	13.0/0.09	270.0	1.5	407 Btuh
	Wall Total		1478 (sqft)		2927 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		20.0	9.8	196 Btuh
2	Insulated - Adjacent		18.0	9.8	176 Btuh
	Door Total		38 (sqft)		372 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2000.0	1.7	3312 Btuh
	Ceiling Total		2000 (sqft)		3312 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	216 (ft(p))	0.0	0 Btuh
	Floor Total		216.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		26596 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	15144	1478	176.7	3288 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	2400	3780 Btuh
				Sensible Envelope Load:		33664 Btuh
Duct load	Prop. leak free, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.143)	4811 Btuh
				Sensible Zone Load		**38475 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Custom Residence
Lake City, FL 32025-

Project Title:
Sedrick Davis

Code Only
Professional Version
Climate: North

9/17/2007

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1	3266 Btuh
	Excursion Subtotal:	3266 Btuh
Duct load		467 Btuh
	Sensible Excursion Load	**3732 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Custom Residence

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WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**36930 Btuh**
	Sensible Duct Load	5278 Btuh
	Total Sensible Zone Loads	**42207 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**42207 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	6457 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	569 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8226 Btuh**
	TOTAL GAIN	**50433 Btuh**

EQUIPMENT

1. Central Unit	#	44000 Btuh

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

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Custom Residence

Lake City, FL 32025-

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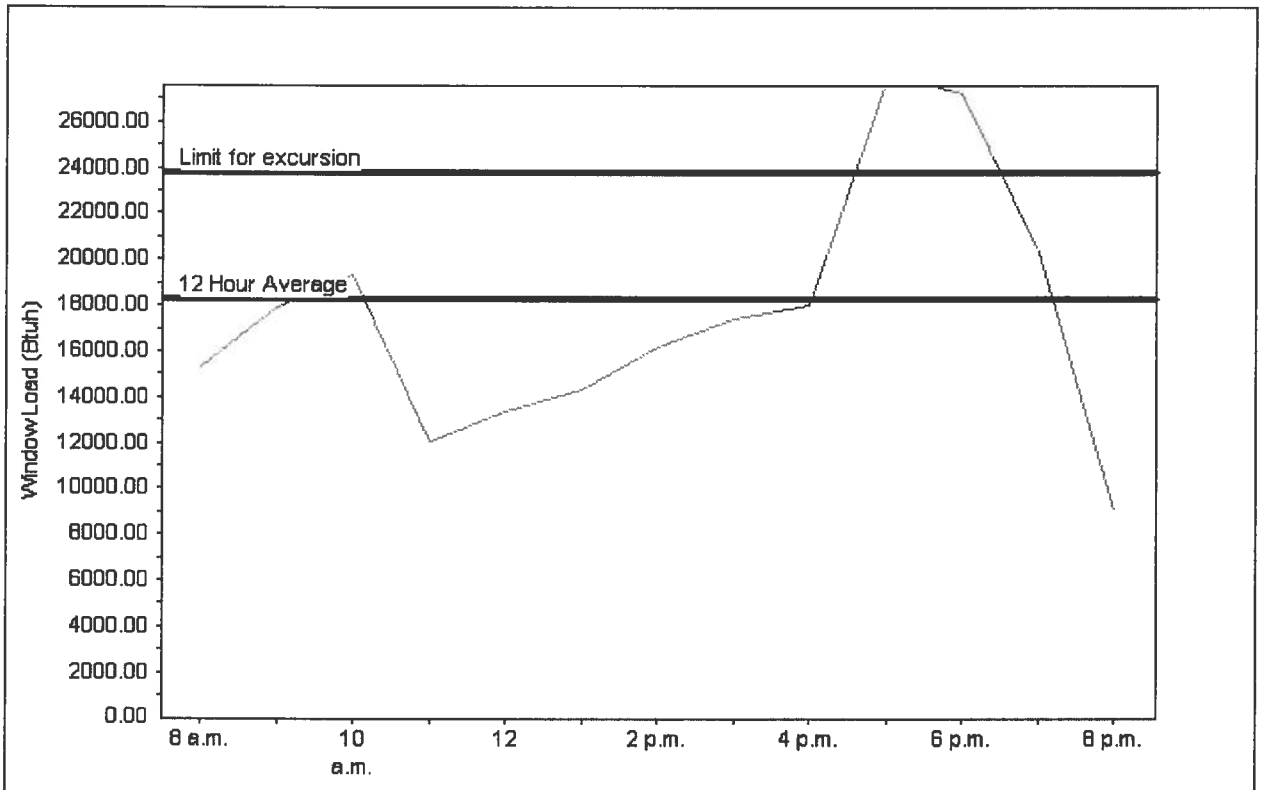
Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	18279 Btu
Summer setpoint	75 F	Peak window load for July	28010 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	23763 Btu
Latitude	29 North	Window excursion (July)	4247 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____