Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0601 - 84 Date Received 1-31-06 By GT Permit # 1017/24263

Application Approved by - Zoning Official BLK Date 3-17-06 Plans Examiner OKJ/T Date 2-15-06

Flood Zone Xper plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Dev.,

Comments Complies with Resolution 2005R-26

NOC

Applicants Name WOLF SCHROM (CELL: 813-786-0720) Phone 386-364-4793

Address PO BOX 656, LIVE OAK, FL 32064

Owners Name VERONICA BAIRD Phone 386-364-4793

911 Address 478 SW DEANNA ROAD, LAKE CITY

Contractors Name BAUHUS INC, WOLF SCHROM Phone 386-364-4793

Address PO BOX 656, LIVE OAK, FL 32064

Fee Simple Owner Name & Address VERONCA BAIRD

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address MARK DISCHWAY

Mortgage Lenders Name & Address N/A

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

Property ID Number 07-4S-17-08106-234 Estimated Cost of Construction 65,000.-

Subdivision Name HOLLY BROOK Lot 4 Block ____ Unit ____ Phase ____

Driving Directions 475 TO FROM BASCOM NORRIS TURN WEST ON DEANNA Rd, LOT # 4 IS ON RIGHT TR TR ON MAWIN (SEE "BAUHUS INC" SIGN) BUILT 1S LOT ON RIGHT

Type of Construction REG'D. HOUSE Number of Existing Dwellings on Property 0

Total Acreage 0.5 Lot Size 115/200 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 30 Side 57 Side 15 Rear 138

Total Building Height 25' Number of Stories 2 Heated Floor Area 1396 Roof Pitch 4/12

PORCHES 131 GARAGE 269 TOTAL 1797

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

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

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

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number GC# 47190

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 24 day of JAN 2006.

Personally known ✓ or Produced Identification

Notary Signature

CRISTA THOMAS
Notary Public, State of Florida
My comm. expires Feb. 14, 2010
No. DD 493925

Columbia County Property Appraiser

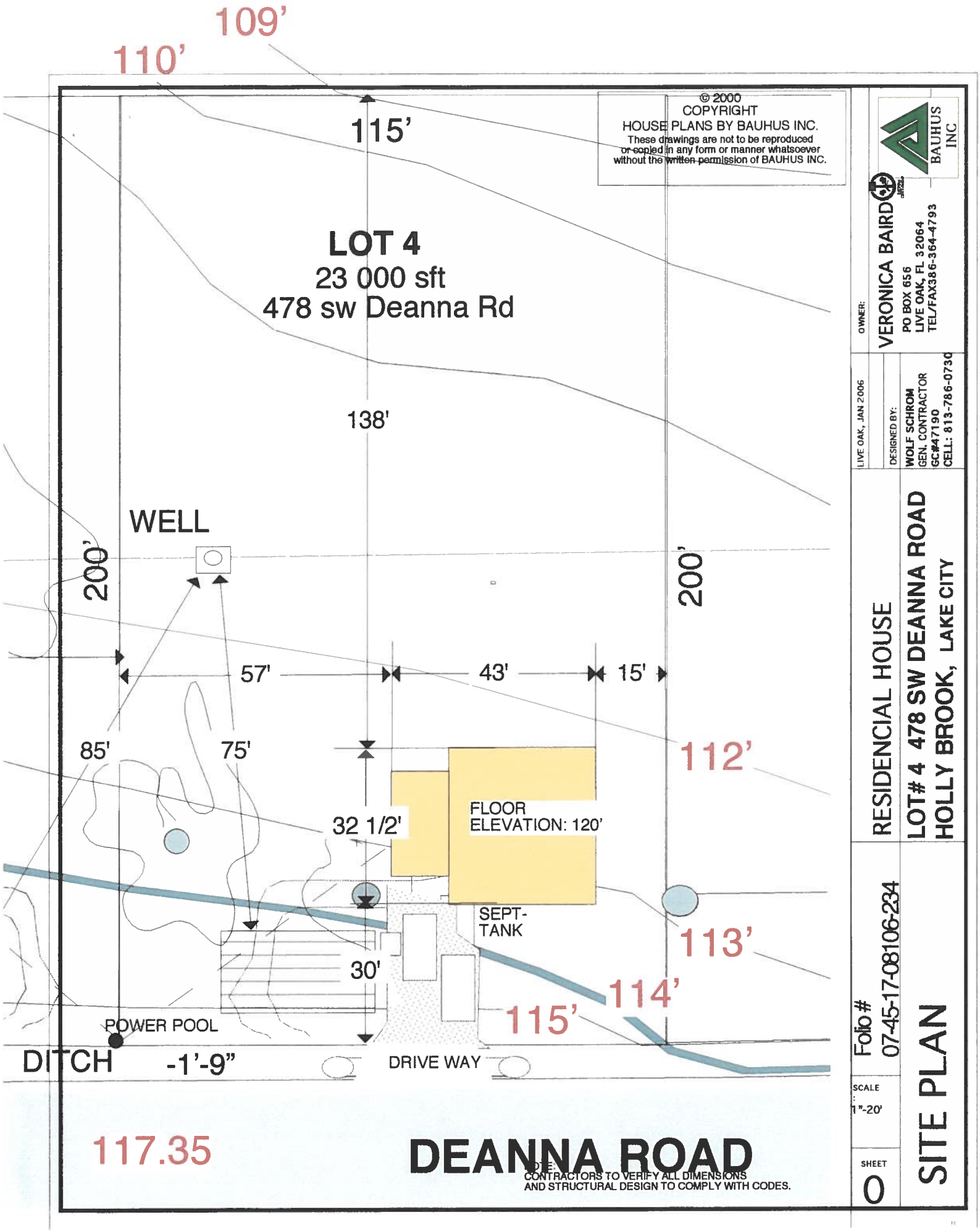
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 07-4S-17-08106-234 - VACANT (000000)

LOT 4 BLOCK B HOLLY BROOK S/D ORB 811-1185, 837-2025, WD 1051-2860.

Name:	BAIRD VERONICA	LandVal	$4,250.00
Site:	HOLLY BROOK	BldgVal	$0.00
Mail:	P O BOX 656 LIVE OAK, FL 32064	ApprVal	$4,250.00
		JustVal	$4,250.00
Sales Info	7/11/2005 $30,000.00 V / Q	Assd	$4,250.00
		Exmpt	$0.00
		Taxable	$4,250.00

This information, GIS Map Updated: 8/3/2005, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



NOTE:
CONTRACTORS TO VERIFY ALL DIMENSIONS AND STRUCTURAL DESIGN TO COMPLY WITH CODES.

BAUHUS INC

OWNER: VERONICA BAIRD
PO BOX 656
LIVE OAK, FL 32064
TEL/FAX386-364-4793

LIVE OAK, JAN 2006

DESIGNED BY:
WOLF SCHROM
GEN. CONTRACTOR
GC#47190
CELL: 813-786-0730

RESIDENCIAL HOUSE
LOT# 4 478 SW DEANNA ROAD
HOLLY BROOK, LAKE CITY

Folio # 07-45-17-08106-234

SCALE 1"-20'

SHEET 0

SITE PLAN

FLORIDA PEST CONTROL & CHEMICAL CO.
Since 1949

FOUNDED 1949

CORPORATE HEADQUARTERS:

P.O. BOX 5369
116 N.W. 16TH AVENUE
GAINESVILLE, FL 32602-5369

(352) 376-2661
FAX (352) 376-2791

SCIENTIFIC PEST CONTROL DIRECTED BY GRADUATE ENTOMOLOGISTS

Complete Pest Control Service
Member Florida & National Pest Control Associations

F-12027

Reply to: 536 SE Baya Dr
Lake City, FL 32025
Phone (386) 752-1703 Fax (386) 752-0171

TERMITE TREATMENT CERTIFICATION

Owner: Bauhaus Construction	Permit Number:
Lot: 4	Block:
Subdivision: Holly Brook	Street Address: 478 SW Deanna Ter
City: Lake City	County: Columbia
General Contractor: Bauhaus Construction	Area Treated: wood members
Date: 06/01/06	Time: 12:10 pm
Name of applicator: Daniel Clark	Applicator ID Number: JB573
Product Used: Active Ingredient: % Concentration: Bora-Care: Disodium Octaborate Tetrahydrate: 23.0%	Number of gallons used: 6
Method of termite prevention treatment: Wood Treatment	

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

This form is proof of complete treatment for Certificate of Occupancy or Closing.

THIS IS PROOF OF WARRANTY

Warranty and Treatment Certifications Have Been Issued.

Authorized Signature:	Date:
Chris Davis	10/27/06

24267

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 07-4S-17-08106-234 **Building permit No.** 000024263

Use Classification SFD,UTILITY **Fire:** 61.38

Permit Holder BAUHUS, INC/WOLF SCHROM **Waste:** 184.25

Owner of Building VERONICA BAIRD **Total:** 245.63

Location: 478 SW DEANNA ROAD, LAKE CITY, FL 32055

Date: 11/07/2006

Harry Dicks

Building Inspector

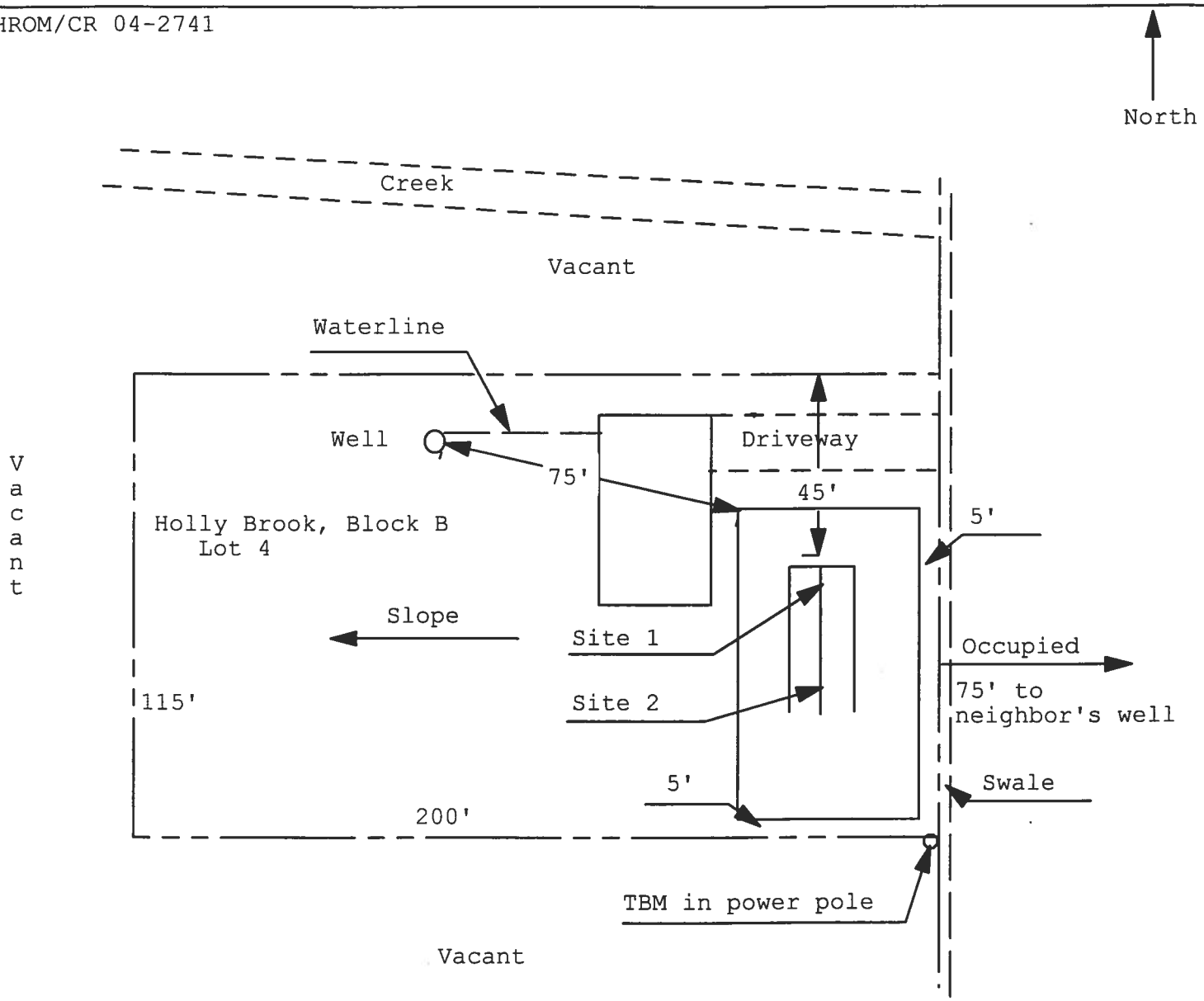
POST IN A CONSPICUOUS PLACE
(Business Places Only)

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 05-0497N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SCHROM/CR 04-2741



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd **Date** 4/29/05

Plan Approved ✓ **Not Approved** ____ **Date** 5/31/05

By _____ Columbia **CPHU**

Notes: _____

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**512295Bauhus**	Builder:	Wolf Schrom
Address:	**Lot: 4, Sub: Holly Brook, Plat:**	Permitting Office:	Columbia
City, State:	**Lake City, FL**	Permit Number:	24263
Owner:	**Spec House**	Jurisdiction Number:	221000
Climate Zone:	**North**		

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	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	1396 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble Default) 164.8 ft²	
b.	SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 164.8 ft²	
8.	Floor types		
a.	Raised Wood, Post or Pier	R=19.0, 868.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 800.2 ft²	
b.	Frame, Wood, Adjacent	R=13.0, 178.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1147.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 20.0 kBtu/hr SEER: 11.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 20.0 kBtu/hr HSPF: 7.30	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.93	
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: 0.12

Total as-built points: 21481
Total base points: 21716

PASS

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

PREPARED BY: _____

DATE: 1-18-06

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

OWNER/AGENT: _____

DATE: _____

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: 4, Sub: Holly Brook, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1396.0	20.04	5035.7	Double, Clear	N	1.5	4.5	7.5	19.20	0.90	129.6	
				Double, Clear	N	1.5	4.5	5.3	19.20	0.90	91.6	
				Double, Clear	N	1.5	5.5	12.0	19.20	0.93	213.9	
				Double, Clear	E	1.5	0.0	16.0	42.06	0.36	240.1	
				Double, Clear	S	4.5	7.0	66.0	35.87	0.60	1416.5	
				Double, Clear	E	1.5	0.0	11.0	42.06	0.36	165.1	
				Double, Clear	S	1.5	0.0	36.0	35.87	0.43	557.7	
				Double, Clear	W	1.5	0.0	11.0	38.52	0.37	158.7	
				As-Built Total:				**164.8**			**2973.2**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	178.0	0.70	124.6	Frame, Wood, Exterior			13.0	800.2	1.50		1200.3	
Exterior	800.2	1.70	1360.3	Frame, Wood, Adjacent			13.0	178.0	0.60		106.8	
Base Total:	**978.2**		**1484.9**	**As-Built Total:**				**978.2**			**1307.1**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	20.0	1.60	32.0	Exterior Insulated				40.0	4.10		164.0	
Exterior	40.0	4.10	164.0	Adjacent Insulated				20.0	1.60		32.0	
Base Total:	**60.0**		**196.0**	**As-Built Total:**				**60.0**			**196.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	868.0	1.73	1501.6	Under Attic			30.0	1147.0	1.73 X 1.00		1984.3	
Base Total:	**868.0**		**1501.6**	**As-Built Total:**				**1147.0**			**1984.3**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier			19.0	868.0	0.77		664.9	
Raised	868.0	-3.99	-3463.3									
Base Total:			**-3463.3**	**As-Built Total:**				**868.0**			**664.9**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1396.0	10.21	14253.2					1396.0	10.21		14253.2	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Holly Brook, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT						
Summer Base Points: 19008.1			**Summer As-Built Points: 21378.7**						
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
			(sys 1: Central Unit 20000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
			21379	1.00	(1.09 x 1.147 x 0.91)	0.310	1.000	7546.7	
19008.1	**0.4266**	**8108.8**	**21378.7**	**1.00**	**1.138**	**0.310**	**1.000**	**7546.7**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Holly Brook, Plat: , Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1396.0	12.74	3201.3	Double, Clear	N	1.5	4.5	7.5	24.58	1.00	185.2	
				Double, Clear	N	1.5	4.5	5.3	24.58	1.00	130.9	
				Double, Clear	N	1.5	5.5	12.0	24.58	1.00	295.8	
				Double, Clear	E	1.5	0.0	16.0	18.79	1.51	453.1	
				Double, Clear	S	4.5	7.0	66.0	13.30	2.00	1759.0	
				Double, Clear	E	1.5	0.0	11.0	18.79	1.51	311.5	
				Double, Clear	S	1.5	0.0	36.0	13.30	3.66	1752.1	
				Double, Clear	W	1.5	0.0	11.0	20.73	1.24	282.2	
				As-Built Total:				**164.8**			**5169.7**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	178.0	3.60	640.8	Frame, Wood, Exterior			13.0	800.2	3.40		2720.7	
Exterior	800.2	3.70	2960.7	Frame, Wood, Adjacent			13.0	178.0	3.30		587.4	
Base Total:	**978.2**		**3601.5**	**As-Built Total:**				**978.2**			**3308.1**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	20.0	8.00	160.0	Exterior Insulated				40.0	8.40		336.0	
Exterior	40.0	8.40	336.0	Adjacent Insulated				20.0	8.00		160.0	
Base Total:	**60.0**		**496.0**	**As-Built Total:**				**60.0**			**496.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	868.0	2.05	1779.4	Under Attic			30.0	1147.0	2.05 X	1.00	2351.3	
Base Total:	**868.0**		**1779.4**	**As-Built Total:**				**1147.0**			**2351.3**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier			19.0	868.0	0.88		760.4	
Raised	868.0	0.96	833.3									
Base Total:			**833.3**	**As-Built Total:**				**868.0**			**760.4**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1396.0	-0.59	-823.6					1396.0	-0.59		-823.6	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Holly Brook, Plat: , Lake City, FL,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**9087.9**	**Winter As-Built Points:**					**11261.9**
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 20000 btuh ,EFF(7.3) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			11261.9	1.000	(1.069 x 1.169 x 0.93)	0.467	1.000	6113.9
9087.9	**0.6274**	**5701.7**	**11261.9**	**1.00**	**1.162**	**0.467**	**1.000**	**6113.9**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Holly Brook, Plat: , Lake City, FL,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
8109	**5702**	**7905**	**21716**	**7547**	**6114**	**7820**	**21481**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Holly Brook, Plat: , Lake City, FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.2

The higher the score, the more efficient the home.

Spec House, Lot: 4, Sub: Holly Brook, Plat: , Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 20.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 11.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1396 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) 164.8 ft²		a. Electric Heat Pump	Cap: 20.0 kBtu/hr
	b. SHGC:				HSPF: 7.30
	(or Clear or Tint DEFAULT) 7b.	(Clear) 164.8 ft²		b. N/A	
8.	Floor types				
	a. Raised Wood, Post or Pier	R=19.0, 868.0ft²		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 800.2 ft²			EF: 0.93
	b. Frame, Wood, Adjacent	R=13.0, 178.0 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, 1147.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 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.

24263

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001017

DATE 03/17/2006 PARCEL ID # 07-4S-17-08106-234

APPLICANT WOLF SCHROM PHONE 386 364-4793

ADDRESS P.O. BOX 656 LIVE OAK FL 32064

OWNER VERONICA BAIRD PHONE 386 364-4793

ADDRESS 478 SW DEANNA ROAD LAKE CITY FL 32055

CONTRACTOR BAUHUS, INC/WOLF SCHROM PHONE 386 364-4793

LOCATION OF PROPERTY 47S, TR ON MARVIN BURNETT, TL ON DEANNA ROAD, 15TH LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HOLLY BROOK 4

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

COLUMBIA COUNTY, FLORIDA

Location:______________________ **Project Name:**______________________

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	DOOR CRAFT	STEEL INSWING	00-1003,03
2. Sliding			
3. Sectional			
4. Roll up	CLOPAY	GARAGE DOOR	REPORT# 9606
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	BETTER BUILD	SERIES 740	AAMA/NWWDA
2. Horizontal Slider			101/IS,2-97
3. Casement	"	"	
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits		HARDY BOARD	
3. EIFS		ALUMINUM	
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	ROYAL SOVEREIGN	SENTINEL	
2. Underlayments		FELT #30	
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	SIMPSON		
2. Truss plates	MOYO TRUSS COMP.		
3. Engineered lumber		GULAM	
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspectio

Contractor or Contractor's Authorized Agent Signature

WOLF SCHROER 1.28.06

Print Name Date

Location

Permit # **(FOR STAFF USE ONLY)**

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☐	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☐	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☐	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☐	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☐	☐	a) All sides
☐	☐	b) Roof pitch
☐	☐	c) Overhang dimensions and detail with attic ventilation

☐ ☐ d) Location, size and height above roof of chimneys.
☐ ☐ e) Location and size of skylights
☐ ☐ f) Building height
☐ ☐ e) Number of stories

Floor Plan including:

☐ ☐ a) Rooms labeled and dimensioned.
☐ ☐ b) Shear walls identified.
☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**
☐ ☐ d) Show safety glazing of glass, where required by code.
☐ ☐ e) Identify egress windows in bedrooms, and size.
☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**
☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.
☐ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

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

Roof System:

☐ ☐ a) Truss package including:
1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☐ ☐ b) Conventional Framing Layout including:
1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☐ ☐ a) Masonry wall
1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☐ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

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

Floor Framing System:

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

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☐ ☐ **Plumbing Fixture layout**

Electrical layout including:

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

☐ ☐ b) Ceiling fans

☐ ☐ c) Smoke detectors

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

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

☐ ☐ f) Appliances and HVAC equipment

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

☐ ☐ h) Exhaust fans in bathroom

HVAC information

☐ ☐ a) Energy Calculations (dimensions shall match plans)

☐ ☐ b) Manual J sizing equipment or equivalent computation

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

☐ ☐ **Disclosure Statement for Owner Builders**

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

☐ ☐ **Private Potable Water**

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL

Project Title:
512295Bauhus

Class 3 Rating
Registration No. 0
Climate: North

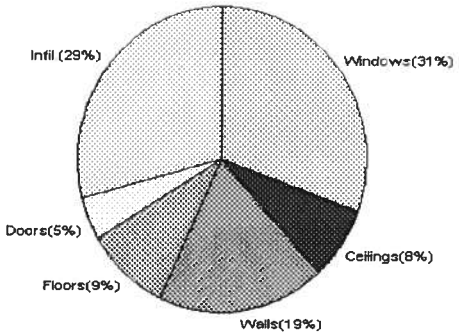
1/18/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**17214**	**Btuh**	**Total cooling load calculation**	**14849**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.2	20000	Sensible (SHR = 0.75)	119.8	15000
Heat Pump + Auxiliary(0.0kW)	116.2	20000	Latent	214.5	5000
			Total (Electric Heat Pump)	134.7	20000

WINTER CALCULATIONS

Winter Heating Load (for 1396 sqft)

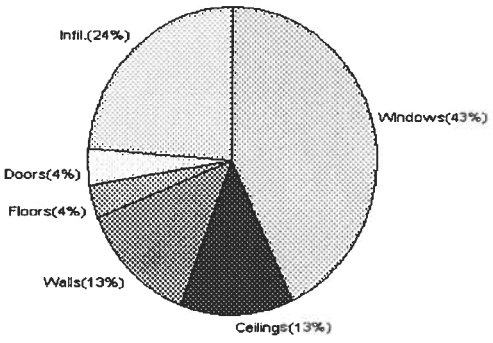
Load component			Load	
Window total	165	sqft	5305	Btuh
Wall total	978	sqft	3212	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	1147	sqft	1352	Btuh
Floor total	868	sqft	1611	Btuh
Infiltration	122	cfm	4957	Btuh
Duct loss			0	Btuh
Subtotal			**17214**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**17214**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1396 sqft)

Load component			Load	
Window total	165	sqft	6383	Btuh
Wall total	978	sqft	1938	Btuh
Door total	60	sqft	588	Btuh
Ceiling total	1147	sqft	1899	Btuh
Floor total			522	Btuh
Infiltration	64	cfm	1187	Btuh
Internal gain			0	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**12517**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			2332	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			0	Btuh
Total latent gain			**2332**	**Btuh**
TOTAL HEAT GAIN			**14849**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Ben Gallow
DATE: 1-18-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House | Project Title: 512295Bauhus | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F | 1/18/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	7.5	32.2	241 Btuh
2	2, Clear, Metal, 0.87	NW	5.3	32.2	171 Btuh
3	2, Clear, Metal, 0.87	NW	12.0	32.2	386 Btuh
4	2, Clear, Metal, 0.87	NE	16.0	32.2	515 Btuh
5	2, Clear, Metal, 0.87	SE	66.0	32.2	2125 Btuh
6	2, Clear, Metal, 0.87	NE	11.0	32.2	354 Btuh
7	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
8	2, Clear, Metal, 0.87	SW	11.0	32.2	354 Btuh
	Window Total		165(sqft)		5305 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	800	3.3	2628 Btuh
2	Frame - Wood - Adj(0.09)	13.0	178	3.3	585 Btuh
	Wall Total		978		3212 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1147	1.2	1352 Btuh
	Ceiling Total		1147		1352Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Open	19	868.0 sqft	1.9	1611 Btuh
	Floor Total		868		1611 Btuh
			Zone Envelope Subtotal:		12256 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.94	7812	122.4	4957 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**17214 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512295Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	17214 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17214 Btuh

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

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House | Project Title: 512295Bauhus | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F | 1/18/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	7.5	32.2	241 Btuh
2	2, Clear, Metal, 0.87	NW	5.3	32.2	171 Btuh
3	2, Clear, Metal, 0.87	NW	12.0	32.2	386 Btuh
4	2, Clear, Metal, 0.87	NE	16.0	32.2	515 Btuh
5	2, Clear, Metal, 0.87	SE	66.0	32.2	2125 Btuh
6	2, Clear, Metal, 0.87	NE	11.0	32.2	354 Btuh
7	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
8	2, Clear, Metal, 0.87	SW	11.0	32.2	354 Btuh
	Window Total		165(sqft)		5305 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	800	3.3	2628 Btuh
2	Frame - Wood - Adj(0.09)	13.0	178	3.3	585 Btuh
	Wall Total		978		3212 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1147	1.2	1352 Btuh
	Ceiling Total		1147		1352Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Open	19	868.0 sqft	1.9	1611 Btuh
	Floor Total		868		1611 Btuh
			Zone Envelope Subtotal:		12256 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.94	7812	122.4	4957 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**17214 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL

Project Title:
512295Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	17214 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17214 Btuh

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House | Project Title: 512295Bauhus | Class 3 Rating

Lake City, FL | Registration No. 0 | Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/18/2006

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	4.5ft.	7.5	0.0	7.5	29	60	450 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	4.5ft.	5.3	0.0	5.3	29	60	318 Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	12.0	0.0	12.0	29	60	720 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	16.0	0.0	16.0	29	60	961 Btuh
5	2, Clear, 0.87, None,N,N	SE	4.5ft.	7ft.	66.0	66.0	0.0	29	63	1911 Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	11.0	0.0	11.0	29	60	660 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043 Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	11.0	11.0	0.0	29	63	319 Btuh
	Window Total				165 (sqft)					6383 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	800.2	2.1	1669 Btuh
2	Frame - Wood - Adj	13.0/0.09	178.0	1.5	269 Btuh
	Wall Total		978 (sqft)		1938 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	60 (sqft)		588 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1147.0	1.7	1899 Btuh
	Ceiling Total		1147 (sqft)		1899 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Open	19.0	868 (sqft)	0.6	522 Btuh
	Floor Total		868.0 (sqft)		522 Btuh

			Zone Envelope Subtotal:	11330 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.49	7812	63.8	1187 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	0	X 230 +	0	0 Btuh

Duct load			
	Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh

	Sensible Zone Load	**12517 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512295Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**12517 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**12517 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**12517 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	2332 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2332 Btuh**
	TOTAL GAIN	**14849 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House | Project Title: 512295Bauhus | Class 3 Rating
Lake City, FL | | Registration No. 0
| | | Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/18/2006
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	4.5ft.	7.5	0.0	7.5	29	60	450 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	4.5ft.	5.3	0.0	5.3	29	60	318 Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	12.0	0.0	12.0	29	60	720 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	16.0	0.0	16.0	29	60	961 Btuh
5	2, Clear, 0.87, None,N,N	SE	4.5ft.	7ft.	66.0	66.0	0.0	29	63	1911 Btuh
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	11.0	0.0	11.0	29	60	660 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	36.0	36.0	0.0	29	63	1043 Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	11.0	11.0	0.0	29	63	319 Btuh
	Window Total				165 (sqft)					6383 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	800.2	2.1	1669 Btuh
2	Frame - Wood - Adj	13.0/0.09	178.0	1.5	269 Btuh
	Wall Total		978 (sqft)		1938 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	60 (sqft)		588 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1147.0	1.7	1899 Btuh
	Ceiling Total		1147 (sqft)		1899 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Open	19.0	868 (sqft)	0.6	522 Btuh
	Floor Total		868.0 (sqft)		522 Btuh

	Zone Envelope Subtotal:	11330 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.49	7812	63.8	1187 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	0	X 230 +	0	0 Btuh

Duct load			
Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh

	Sensible Zone Load	**12517 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512295Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**12517 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**12517 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**12517 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	2332 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2332 Btuh**
	TOTAL GAIN	**14849 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Spec House

Lake City, FL

Project Title:
512295Bauhus

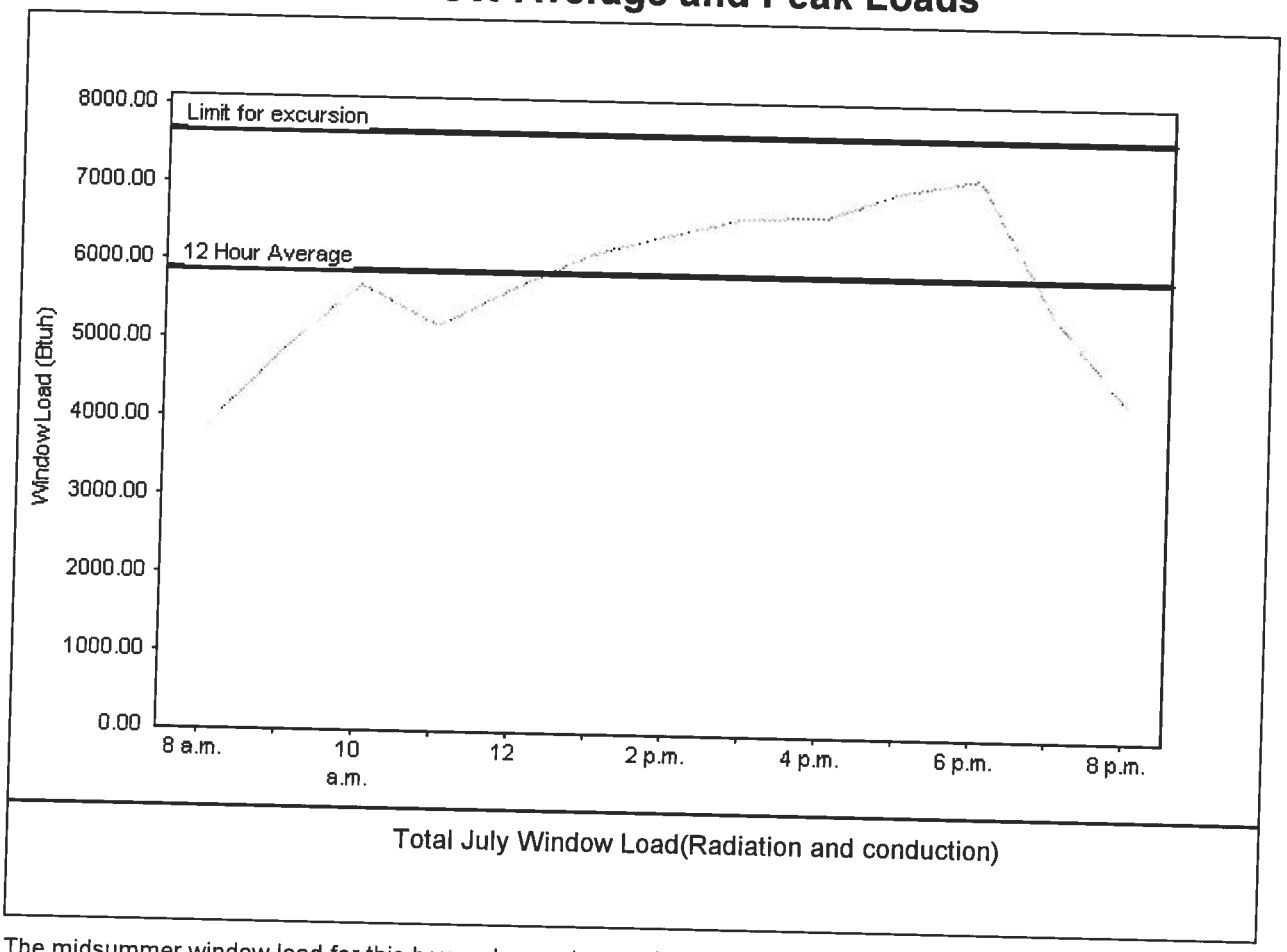
Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	5889 Btuh
Summer setpoint	75 F	Peak window load for July	7163 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	7655 Btuh
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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:
DATE: 1-18-06

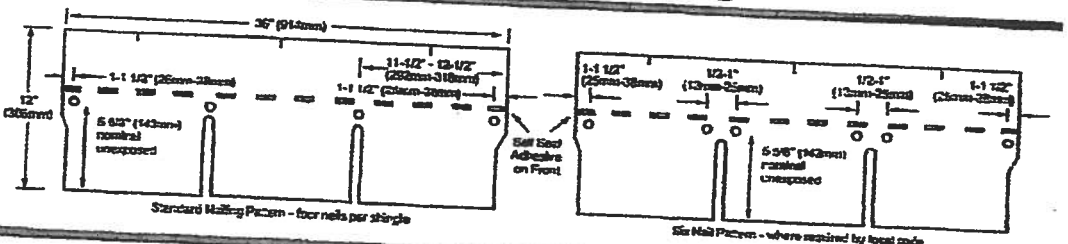
GAF MATERIALS CORPORATION

ROYAL SOVEREIGN® SHINGLES

SHINGLES SENTINEL® SHINGLES

APPLICATION INSTRUCTIONS

Note: These shingles must be nailed a nominal 5 5/8" (143mm) from bottom of shingles, not in or above self seal, as shown. Nails should remain unexposed.



GENERAL INSTRUCTIONS

- **ROOF DECKS:** For use on new or reroofing work over well-seasoned, supported wood deck, tightly-constructed with maximum 6" (152mm) wide lumber, having adequate nail-holding capacity and smooth surface. Plywood decking as recommended by The Engineered Wood Assn. is acceptable. Plywood decks for Class A installations must be 3/8" (10mm) thick or greater with underlayments as noted below. Shingles must not be fastened directly to insulation or insulated deck unless authorized in writing by GAF Materials Corporation. Roof decks and existing surfacing material must be dry prior to application of shingles.
- **UNDERLAYMENT:** Underlayment is required on new construction and required for reroofing when old roof is removed from the deck. Use only "breather type" material like GAF Materials Corporation Shingle-Mate® Underlayment or equivalent. Underlayments must be installed flat, without wrinkles.
- **FASTENERS:** Use of nails is recommended. (Staple specifications and application instructions are available from GAF Materials Corporation, Contractor Services Dept., 1361 Alps Road, Wayne, NJ 07470.) Use only zinc coated steel or aluminum, 10-12 gauge, barbed, deformed or smooth shank roofing nails with heads 3/8" (10mm) to 7/16" (12mm) in diameter. Fasteners should be long enough to penetrate at least 3/4" (19mm) into wood decks or just through the plywood decks. Fasteners must be driven flush with the surface of the shingle. Over driving will damage the shingle. Raised fasteners will interfere with the sealing of the shingles. For normal installation, four fasteners must be installed per shingle, a nominal 5 5/8" (143mm) up from the bottom of the shingle. Fasteners must be installed approximately 1"-1 1/2" (25-38mm) and 11 1/2"-12 1/2" (292-318mm) from each side.
- **WIND RESISTANT:** These shingles have a special thermal sealant that firmly bonds the shingles together after application when exposed to sun and warm temperatures. Shingles installed in Fall or Winter may not seal until the following Spring. If shingles are damaged by winds before sealing or are not exposed to adequate surface temperatures, or if the self-sealant gets dirty, the shingles may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect. To insure immediate sealing, apply 2 quarter-sized dabs of shingle tab adhesive on the back of each tab, approximately 1" (25mm) from end and 1" (25mm) up from bottom of each tab corner. The shingle must be pressed firmly into the adhesive.

NOTE: Application of excess tab adhesive can cause blistering of the shingle.

For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

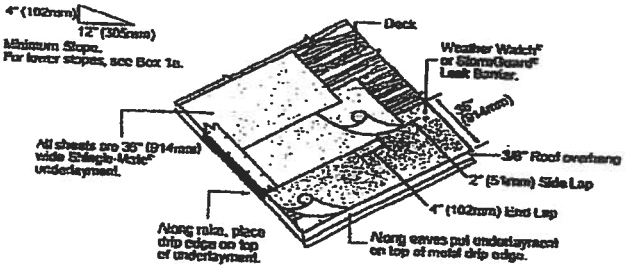
NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

- **CANADIAN COLD WEATHER APPLICATIONS:** CSA A123.5-M90 mandates that shingles applied between September 1 and April 30 shall be adhered with a compatible field-applied adhesive. See Wind Resistant for GAF Materials Corporation's recommendations for the application of that adhesive.
- **MANSARD AND STEEP SLOPE APPLICATIONS:** For roof slopes greater than 21" (1750mm/m) per foot (do NOT use on vertical side walls), shingle sealing must be enhanced by hand sealing. After fastening the shingle in place, apply 2 quarter-sized dabs of shingle tab adhesive as indicated in Wind Resistant above. The shingle must be pressed firmly into the adhesive.
- **EXPOSURE:** 6" (127mm)
- **THROUGH VENTILATION:** All roof structures must be provided with through ventilation to prevent entrapment of moisture laden air behind roof sheathing. Ventilation provisions must at least meet or exceed current F.H.A., H.U.D. or local code minimum requirements.
- **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.
- **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

1 Underlayment: Standard Slope—4/12 (333mm/m) or more

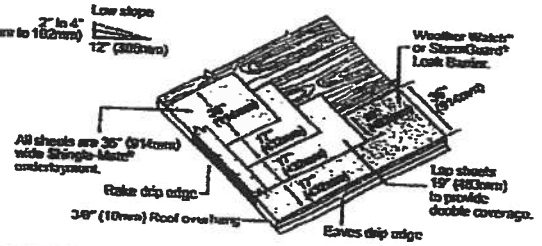
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

Application of eave flashing: Install eave flashing such as GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier in localities where leaks may be caused by water backing up behind ice or debris dams. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line.



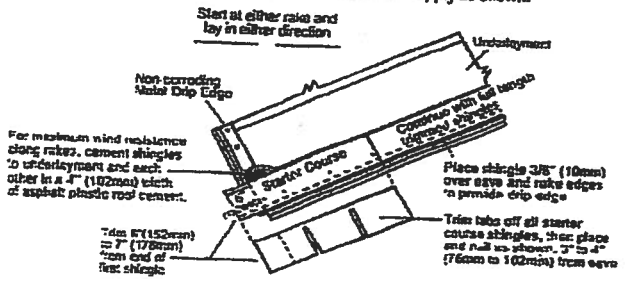
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

Application of underlayment and eave flashing: Completely cover the deck with two layers of underlayment as shown. Use only enough nails to hold underlayment in place until covered by shingles. Use blind nailing for eave flashings. At eaves and where ice dams can be expected, use one layer of GAF Materials Corporation Weather Watch® or StormGuard® Leak Barrier. Eave flashing must overhang the roof edge by 3/8" (10mm) and extend 24" (610mm) beyond the inside wall line. Where ice dams or debris dams are not expected, install 2 plies of Shingle-Mate® underlayment.



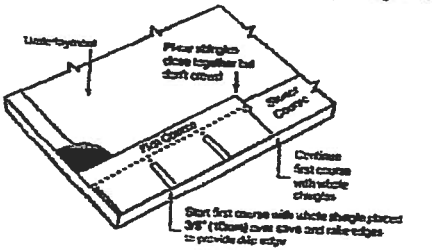
2 Starter Course

Use of any GAF MC 3-tab Shingle is recommended. Apply as shown.



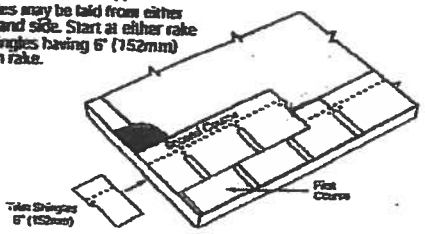
3 First Course

Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof. Since this procedure can cause an incorrect color blend on the roof and may damage the shingles.

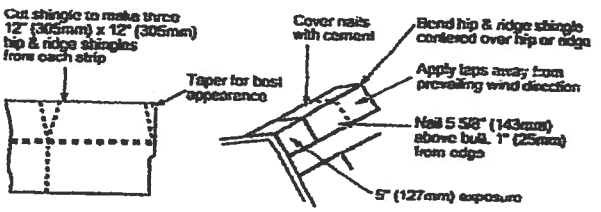


5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied self-sealing dots on lower courses are designed to seal down the shingle tabs in an upper course.

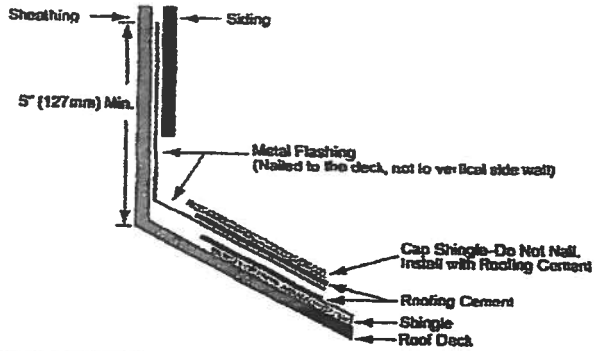
NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.



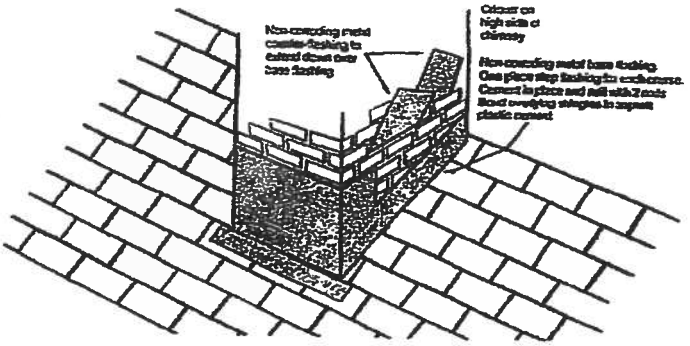
apply as shown. Position laps away from prevailing wind direction.



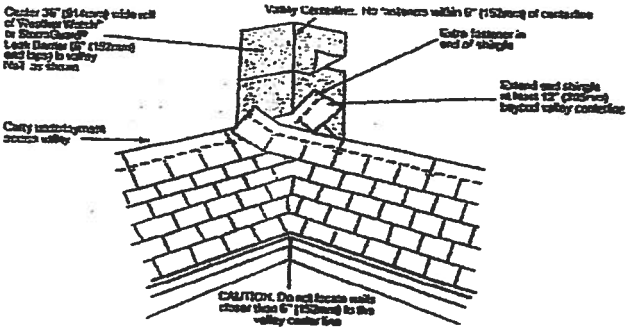
6 Wall Flashing (Sloped Roof to Vertical Wall)



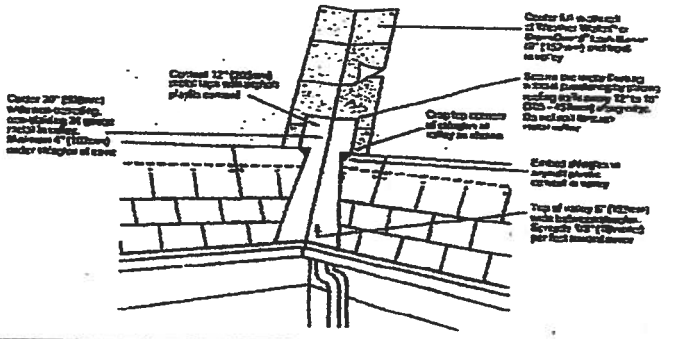
7 Chimney Flashing



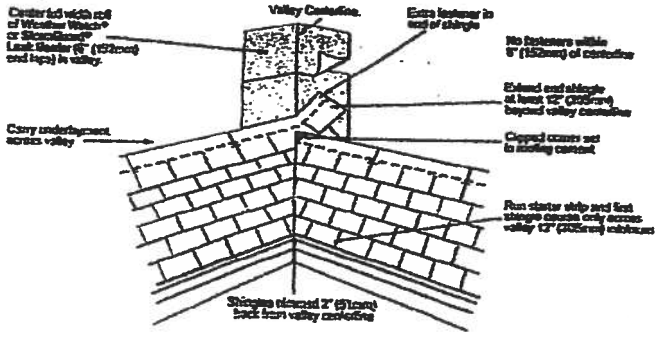
8 Valley Construction - Closed or Woven Valley



9 Valley Construction–Open Cut



10 Valley Construction–Closed Cut



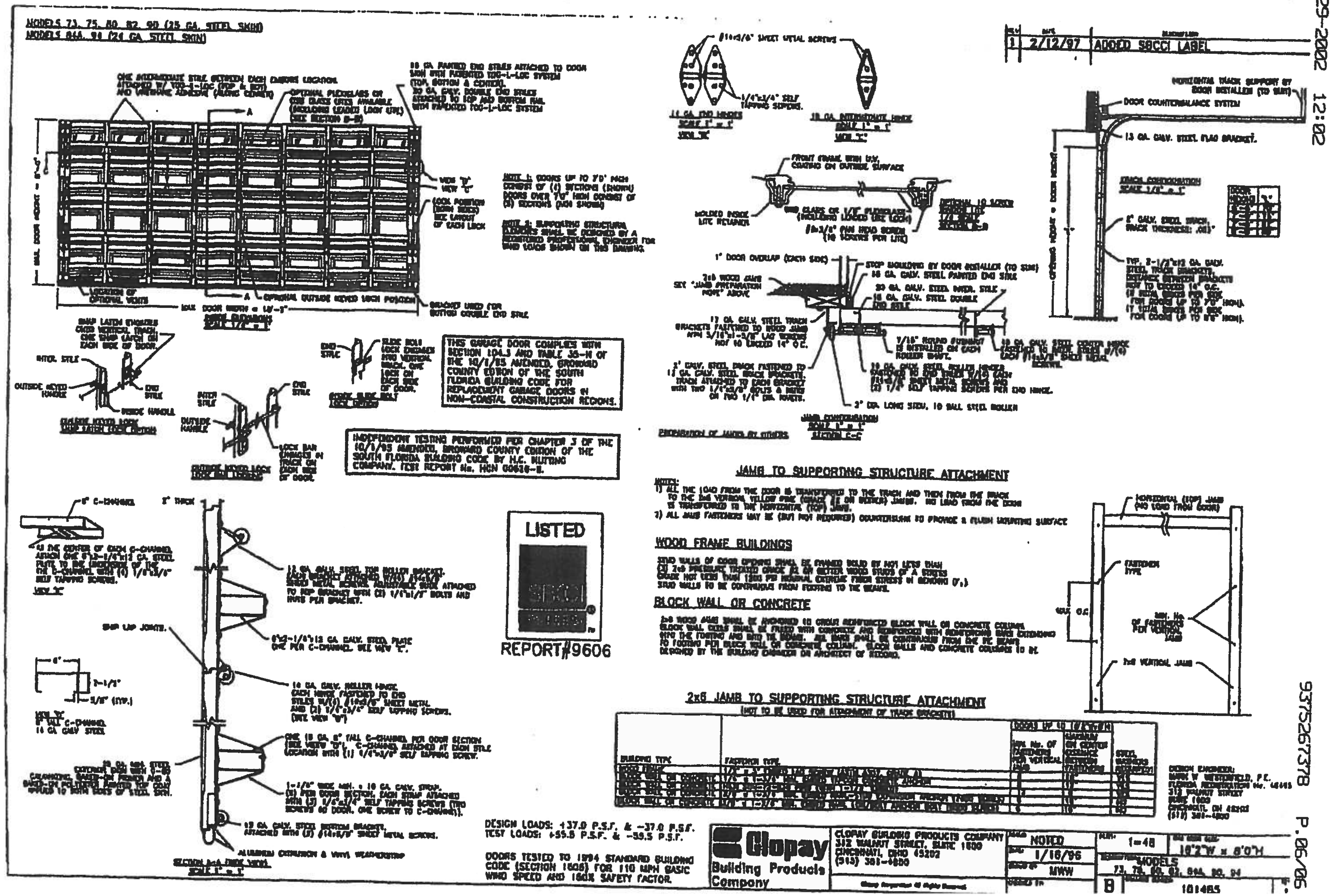
Precautionary Notes

These shingles are fiberglass, self-sealing asphalt shingles. Because of the natural characteristics of the high quality waterproofing material used, these shingles will be stiff in cold weather and flexible in hot weather.

1. Bundles should not be dropped on edge nor should attempt be made to separate shingles by "breaking" over ridge or other bundles.
2. Handle carefully. Shingles can easily be broken in cold weather or their edges damaged in hot weather.
3. All exposed materials must be of Class A type.
4. Storage should be in a covered, ventilated area–maximum temperature 110°F (43°C.) Store on flat surface and use weight equalization boards if pallets are to be double stacked. Shingles must be protected from weather when stored at job site. Do not store near steam pipes, radiators, etc., or in sunlight. All rolled product must be stored on ends.
5. If shingles are to be applied during PROLONGED COLD periods or in areas where airborne dust or sand can be expected before sealing occurs, the shingles MUST be hand sealed. See Wind Resistant instructions.

Re-Roofing

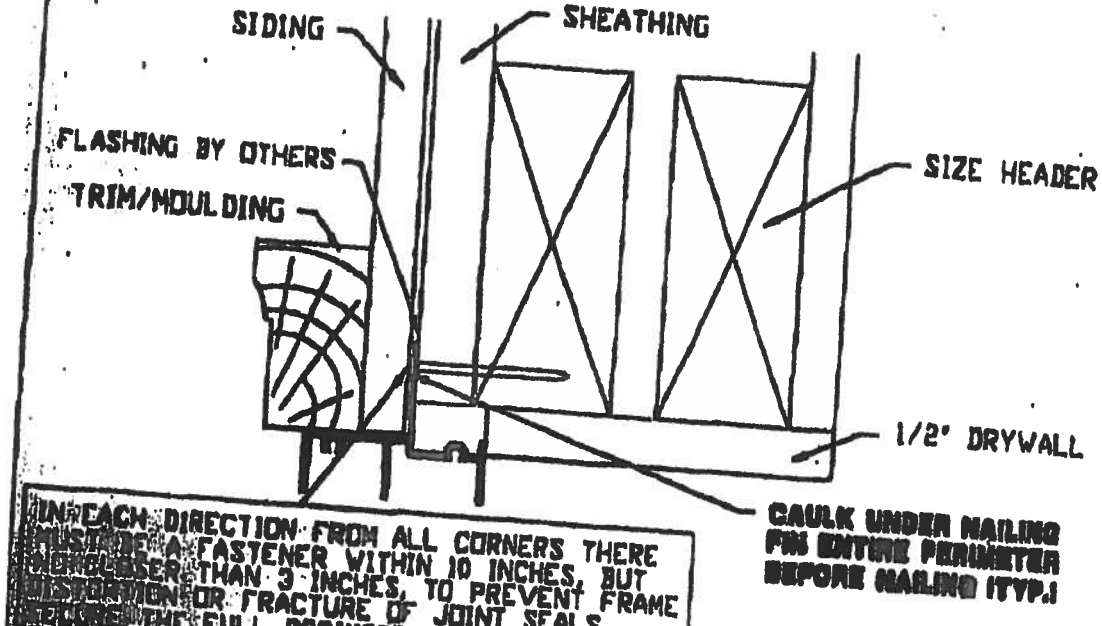
If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles provide a smooth surface. Fasteners must be of sufficient length to penetrate the wood deck at least 3/4" (19mm) or just through plywood. Follow other above instructions for application. *Note:* Shingles can be applied over wood shingles when precautions have been taken to provide an acceptable smooth surface. This includes cutting back old shingles at eaves and rakes and installing new wood edging strips as needed. Make surface smooth and use beveled wood strips if necessary. Install #30 underlayment to maintain Class A rating.


MODELS 73, 75, 80, 82, 90 (25 GA. STEEL SKIN)
MODELS 84A, 94 (24 GA. STEEL SKIN)
1 2/12/97 ADDED SBCCI LABEL
DOOR COUNTERBALANCE SYSTEM
13 GA. GALV. STEEL FLAG BRACKET.
THIS GARAGE DOOR COMPLIES WITH SECTION 104.3 AND TABLE 35-H OF THE 10/1/85 AMENDED, BROWARD COUNTY EDITION OF THE SOUTH FLORIDA BUILDING CODE FOR REPLACEMENT GARAGE DOORS IN NON-COASTAL CONSTRUCTION REGIONS.
INDEPENDENT TESTING PERFORMED PER CHAPTER 3 OF THE 10/1/85 AMENDED, BROWARD COUNTY EDITION OF THE SOUTH FLORIDA BUILDING CODE BY H.C. NUTTING COMPANY.
3" DIA. LONG STEM, 10 BALL STEEL ROLLER
JAMB TO SUPPORTING STRUCTURE ATTACHMENT
WOOD FRAME BUILDINGS
BLOCK WALL OR CONCRETE
LISTED
REPORT #9606
2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT
DESIGN LOADS: +37.0 P.S.F. & -37.0 P.S.F.
TEST LOADS: +55.5 P.S.F. & -55.5 P.S.F.
DOORS TESTED TO 1994 STANDARD BUILDING CODE (SECTION 1606) FOR 110 MPH BASIC WIND SPEED AND 150% SAFETY FACTOR.
Clopay Building Products Company
CLOPAY BUILDING PRODUCTS COMPANY
312 WALNUT STREET, SUITE 1600
CINCINNATI, OHIO 45202
(513) 381-4800
NOTED
1/16/96
MWW
1=48
10'2"W x 8'0"H
MODELS
B
101485

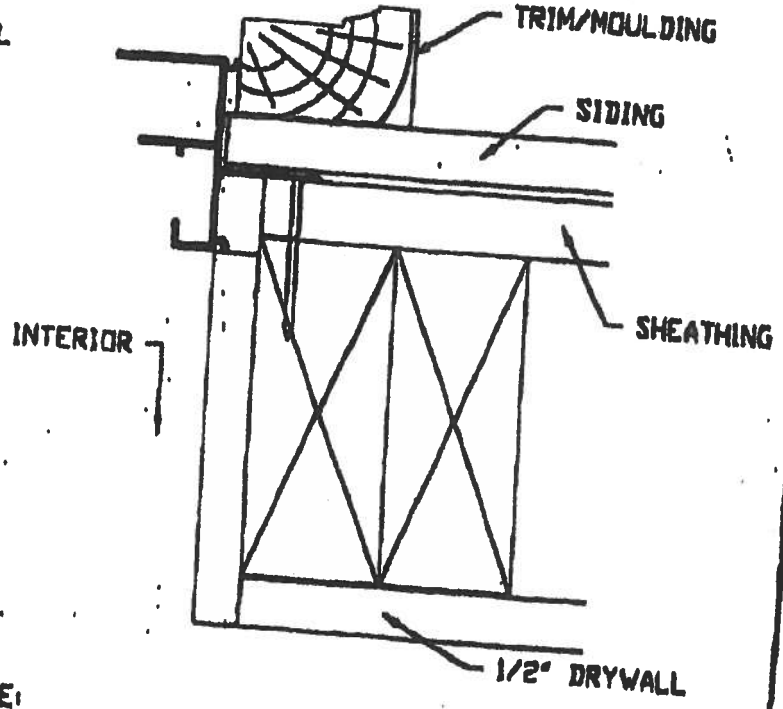
WOOD CONSTRUCTION INSTALLATION
CONVENTIONAL NAIL-FIN SINGLE HUNG

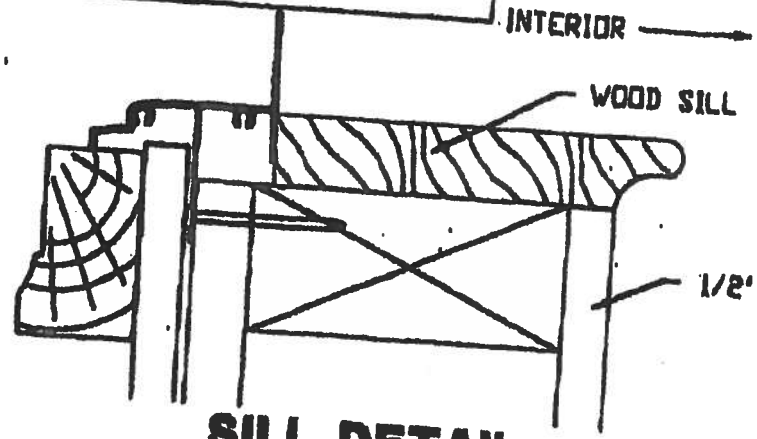
740A
740C

HEAD DETAIL



JAMB DETAIL





SILL DETAIL

NOTE:

FASTENER TYPE AND LOCATION MAY VARY DEPENDING ON LOCAL CODES

Series V83

V8 cl

"STRUCTURAL" VERTICAL MULLION - Florida Flange

Before you begin, see note on field notching.

Step 1. Caulk inside mull as shown to seal frame jambs.

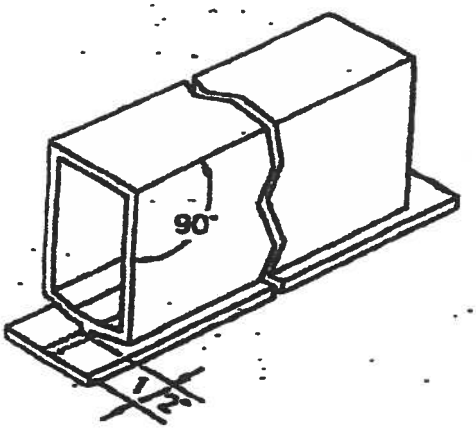
Step 2. Place windows and mullions together as shown below.

Step 3. Using the pre-punched installation holes in window jambs as a drill guide, drill 1/8" holes into mullion.

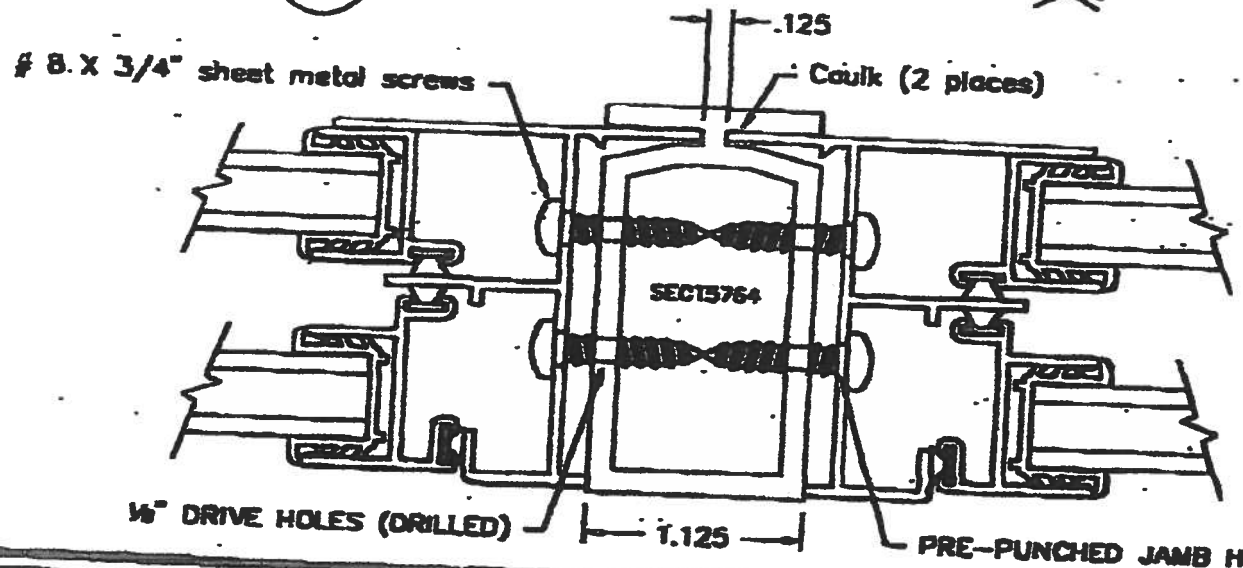
Step 4. Attach windows to mullion using # 8 x 3/4" sheet metal screws (not included) through drilled holes as shown below. To avoid jamb distorsion, do not overtighten screws.

Step 5. Caulk any voids to prevent water leakage.

Note: For improved appearance of exterior face, and buck strip / sill clearance, field notching (both ends) is recommended.



Note: Each mull adds 1/8".



704 12th AVE.
SMYRNA, TN 37167
(800) 545-5413

INSTRUCTION SHEET

TWIN OR TRIPLE

USING SERIES V83 MULL

7.10/774/780/784 FLORIDA FLANGE PRODUCTS

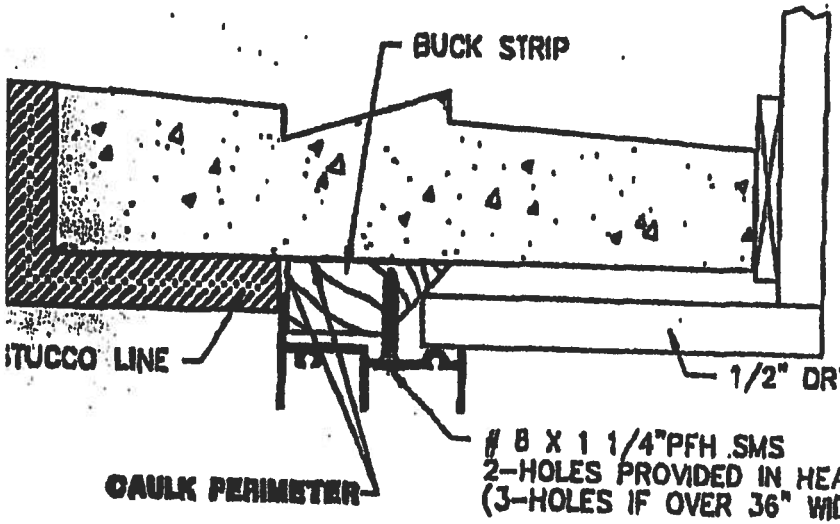
Tony C	01/21/99
1 : 1	1 OF 1

MULLV83A

MASONARY CONSTRUCTION INSTALLATION
FLORIDA FLANGE SINGLE HUNG

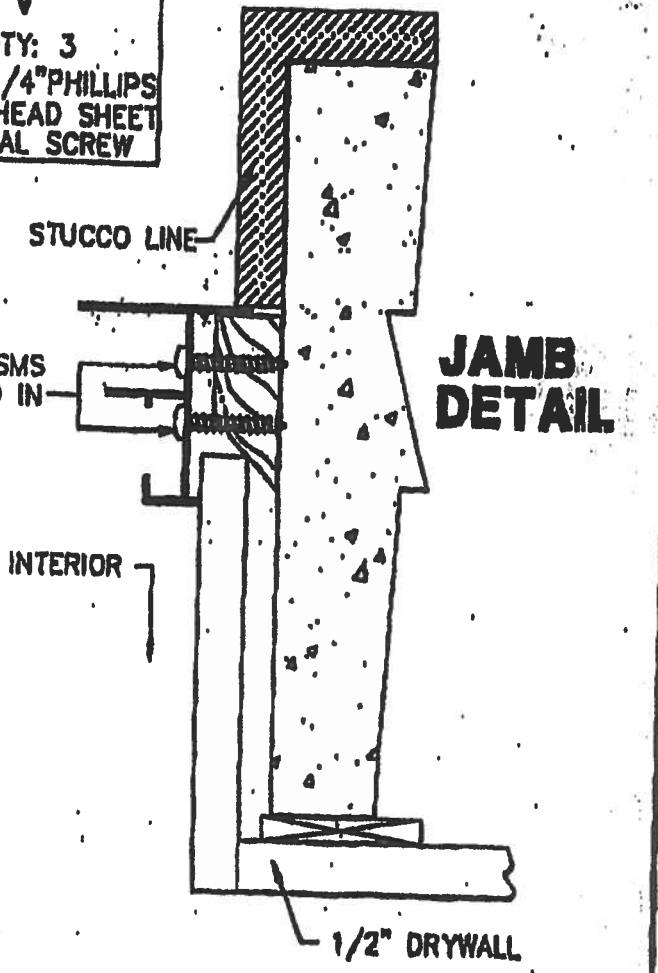
BetterBilt
DOORS AND WINDOWS

HEAD DETAIL

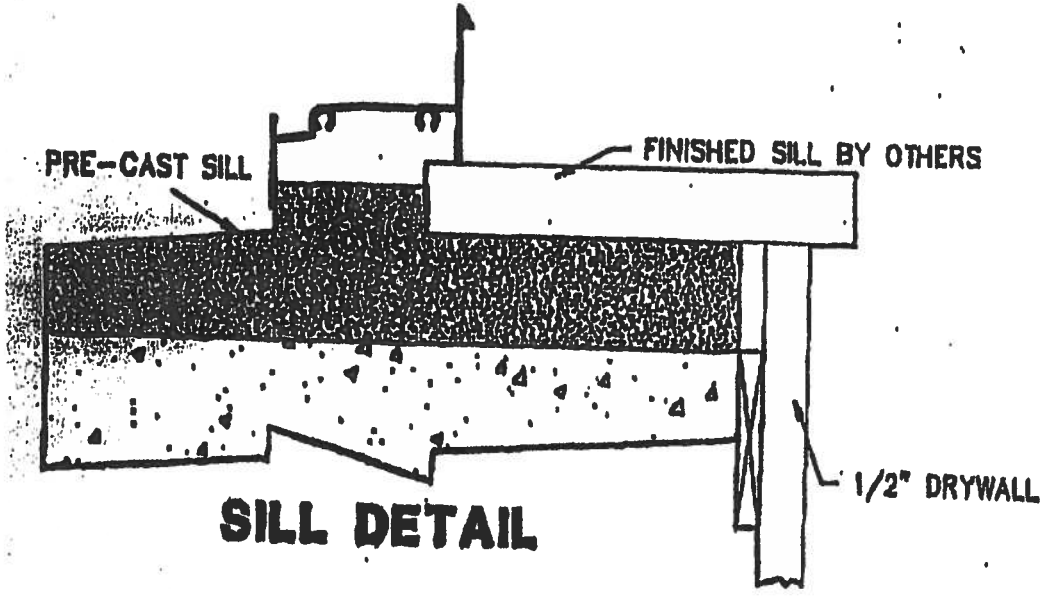


INCLUDED WITH WINDOW INSTALLATION SCREW PACK 99-08-919	
QTY: 6 #8x1"PHILLIPS PAN HEAD SHEET METAL SCREW	QTY: 3 #8X1 1/4"PHILLIPS FLAT HEAD SHEET METAL SCREW

JAMB DETAIL



SILL DETAIL



NOTE:

FASTENER TYPE AND LOCATION MAY VARY DEPENDING ON LOCAL CODES.

Jeld-Wen, Inc.

ACCEPTANCE No.: 00-1003

APPROVED : JAN 1 1

EXPIRES : April 14, 2

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has bee and the original submitted documentation, including test supporting data, engineering docume no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, cit and the following statement: "Miami-Dade County Product Control Approved", or as specific stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
   b) The product is no longer the same product (identical) as the one originally approved;
   c) If the Acceptance holder has not complied with all the requirements of this acceptance, incl the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initiall submitted is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has beer requested (through the filing of a revision application with appropriate fee) and granted by this o

5. Any of the following shall also be grounds for removal of this Acceptance:
   a) Unsatisfactory performance of this product or process.
   b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any oth purpose.

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

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, sh be provided to the user by the manufacturer or its distributors and shall be available for inspection the job site at all time. The engineer need not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal o Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

Manuel Perez, P.E. Product Control Exami
Product Control Division

END OF THIS ACCEPTANCE

Jeld-Wen, Inc.

ACCEPTANCE No.: 00-1003.03

APPROVED : JAN 1 1 20

EXPIRES : April 14, 200

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This revises the Notice of Acceptance No. 99-1122.01, which was issued on April 14, 2003. approves a residential insulated steel door, as described in Section 2 of this Notice of Accep designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami- County, for the locations where the pressure requirements, as determined by SFBC Chapter 2 not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series "DoorCraft® Steel" – Outswing Opaque Wood Edge Residential Insulated Door w/Sidelites - Impact Resistant Door only and its components shall be constructed in compliance with the following documents: Drawing No DC-2005, titled "O/S Opaque Steel Double & Single Units w & w/o Sidelites" Sheets 1 through 6 of 6 dated 09/25/00, bearing Miami-Dade County Product Control approval stamp with the Notice of Acceptance number approval date by the Miami-Dade County Product Control Division. These documents hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door, with sidelites, a shown in approved drawings. Single door units shall include all components described in the acti leaf of this approval.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters): the installation of doors only will not require a hurrica protection system. Sidelites will require a hurricane protection system

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance; clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, F
METRO-DADE FLAGLER BU

BUILDING CODE COMPLIANCE
METRO-DADE FLAGLER B
140 WEST FLAGLER STREET, SU
MIAMI, FLORIDA 33
(305) 375-2901 FAX (305)

CONTRACTOR LICENSING:
(305) 375-2527 FAX (305)

CONTRACTOR ENFORCEMENT
(305) 375-2966 FAX (305)

PRODUCT CONTROL D
(305) 375-2902 FAX (305)

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Jeld-Wen, Inc
3250 Lakeport Drive
Klamath Falls ,OR 97601

Your application for Notice of Acceptance (NOA) of:
Series "DoorCraft® Steel" - Outswing Opaque W/E Residential Insulated Steel Doors w/ Sideli
Impact
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Typ
Construction, and completely described herein, has been recommended for acceptance by the Miami-D
County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secur
product or material at any time from a jobsite or manufacturer's plant for quality control testing. I
product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspen
use of such product or material immediately. BCCO reserves the right to revoke this approval, if
determined by BCCO that this product or material fails to meet the requirements of the South Fl
Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 00-1003.03
EXPIRES: 04/14/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Buildi
Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions s
forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 01/11/2001

DOCUMENT CONTROL ADDENDUM #01-40351.00

Current Issue Date: 02/14/02

Report No.: 01-40351.01

Requested by: William Emley, MI Home Products, Inc.
Purpose: AAMA/NWWDA 101/I.S.2-97 testing of Series/Model 744 aluminum single hung window with flange.
Issued Date: 12/28/01
Comments: Florida P.E. seal required on report.
Certification copy to John Smith at Associated Laboratories, Inc.

Report No.: 01-40351.02

Requested by: William Emley, MI Home Products, Inc.
Purpose: Change of glass type.
Issued Date: 12/28/01
Comments: Florida P.E. seal required on report.
Certification copy to John Smith at Associated Laboratories.

Report No.: 01-40351.03

Requested by: William Emley, MI Home Products, Inc.
Purpose: AAMA/NWWDA 101/I.S.2-97 testing of Series/Model 740/744 aluminum single hung window with nail fin.
Issued Date: 02/14/02
Comments: Florida P.E. seal required on report.
Certification copy to John Smith at Associated Laboratories, Inc.

Report No.: 01-40351.04

Requested by: William Emley, MI Home Products, Inc.
Purpose: Revised Report No. 01-40351.01
Issued Date: 02/14/02
Comments: Changed Series/Model from 744 to 740/744 and unit size from 52 x 71 to 53 x 73. Florida P.E. seal required on report. Certification copy to John Smith at Associated Laboratories, Inc.

Architectural Testing

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

Rendered to:

MI HOME PRODUCTS, INC.
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-40351.03
Test Dates: 10/22/01
And: 10/23/01
Report Date: 02/15/02
Expiration Date: 10/23/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness performance testing on a Series/Model 740/744, aluminum single hung window at MI Home Products, Inc.'s test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R45 52 x 72 rating.

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

Test Specimen Description:

Series/Model: 740/744

Type: Aluminum Single Hung Window With Nail Fin

Overall Size: 4' 4-1/8" wide by 5' 11-5/8" high

Active Sash Size: 4' 2-3/4" wide by 2' 11-5/8" high

Fixed Daylight Opening Size: 4' 1-1/8" wide by 2' 9" high

Screen Size: 4' 1-7/8" wide by 2' 11-5/16" high

Finish: All aluminum was polished.

Glazing Details: The active sash and fixed lite were glazed with one sheet of 1/8" thick clear tempered glass. Each sash was channel glazed using a flexible vinyl gasket.

ALLEN N. REEVES
CERTIFICATE No. 72354
STATE OF FLORIDA
PROFESSIONAL ENGINEER

New
R-45 Rating

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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 748/744 [redacted] A-C
TYPE: Aluminum Single Hung Window with Nail Fin

Title of Test	Results
Rating	H R45 52 x 72
Overall Design Pressure	45 psf
Operating Force	24 lb max.
Air Infiltration	0.10 cfm/ft²
Water Resistance	6.75 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-40351.03 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:bnw

Allen H. R.

ALLEN H. REEVES
CERTIFICATE
NO. 79584
STATE OF

DoorCraft® Steel

OUTSWING OPAQUE DOORS W & W/O SIDELITES
WOOD EDGE INSULATED STEEL DOOR WITH WOOD FRAMES

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS REQUIRED FOR SIDELITES.
5. DESIGNED PRESSURE RATING SHALL BE AS FOLLOWS: --SEE DESIGN PRESSURE RATING TABLE SHEET ONE.
6. SIDELITES ARE AN OPTION AND CAN BE IN A SINGLE OR DOUBLE CONFIGURATION.
7. THIS SYSTEM DOES MEET THE WATER REQUIREMENTS IN MIAMI-DADE COUNTY.

RESIDENTIAL INSULATED STEEL DOOR
(Common to all frame conditions)

Door Leaf Construction:

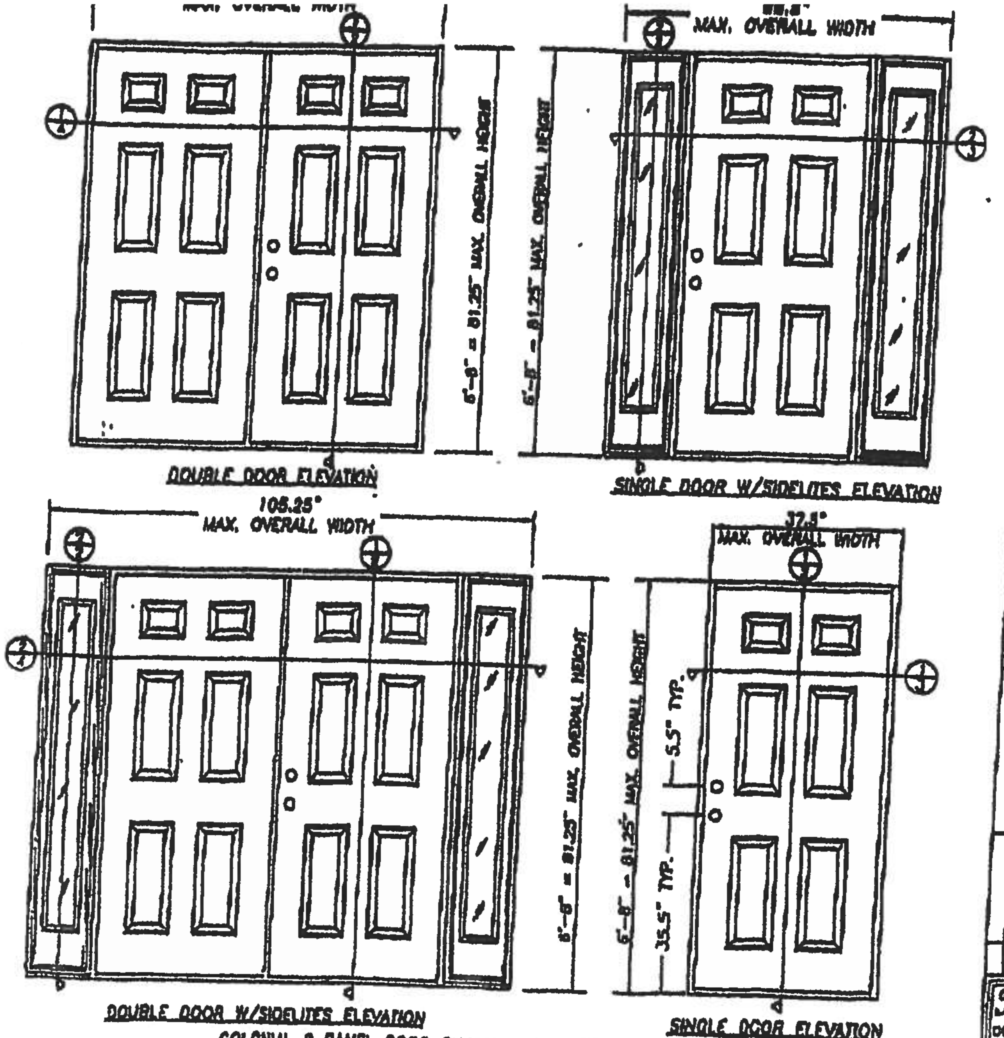
Face sheets: 24 ga. (0.020") minimum thickness, Galvanized steel A-525 commercial quality – AKDQ per ASTM 620 with yield strength Fy(min.)=24,600 psi.

Core design: Expanded polystyrene with 1.0 to 1.25 lbs. density.

Construction: Steel face sheets glued to expanded polystyrene (EPS), with wood rails and laminated veneered lumber stiles and a wood lock block reinforcement.

Frame Construction: The head jams and side jambs are mortised, butted and joined using three 7/8" x 2" wire staples.

TABLE OF CONTENTS



COLONIAL 6 PANEL DOOR SHOWN FOR CLARITY OF VIEW (VIEWED INTERIOR)

DESIGN PRESSURE RATING	
(hatched)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED
POSITIVE	+ 53.0 PSF
NEGATIVE	- 57.0 PSF

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE January 31, 2001
BY [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1003.05

DATE	9/28/00
SCALE	N.T.S.
DWG. BY	TJH
CHK. BY	RW
DRAWING NO.	DC2005
SHEET	1 of 6

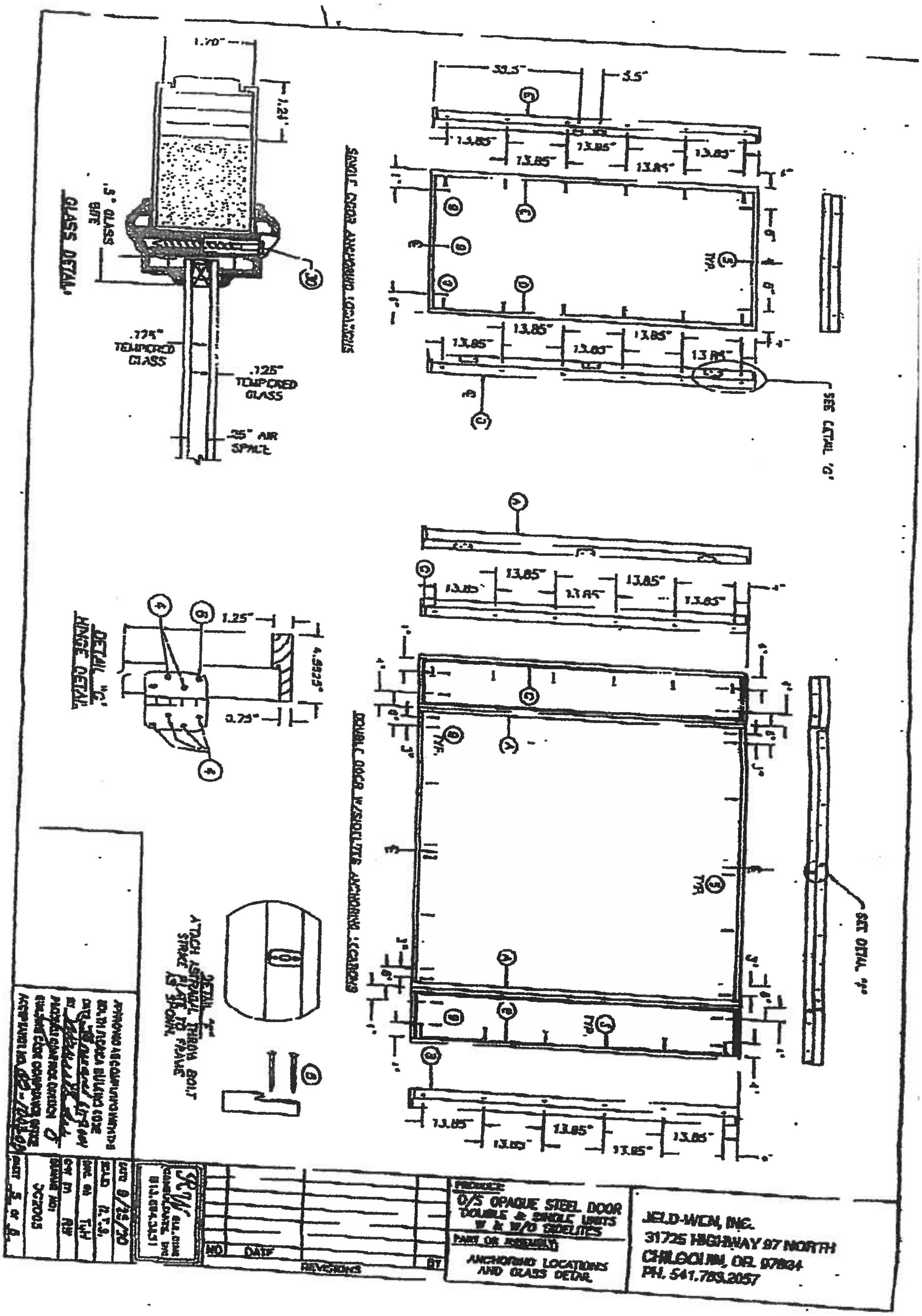
RW BUILDING CONSULTANTS, INC
813.684.3631

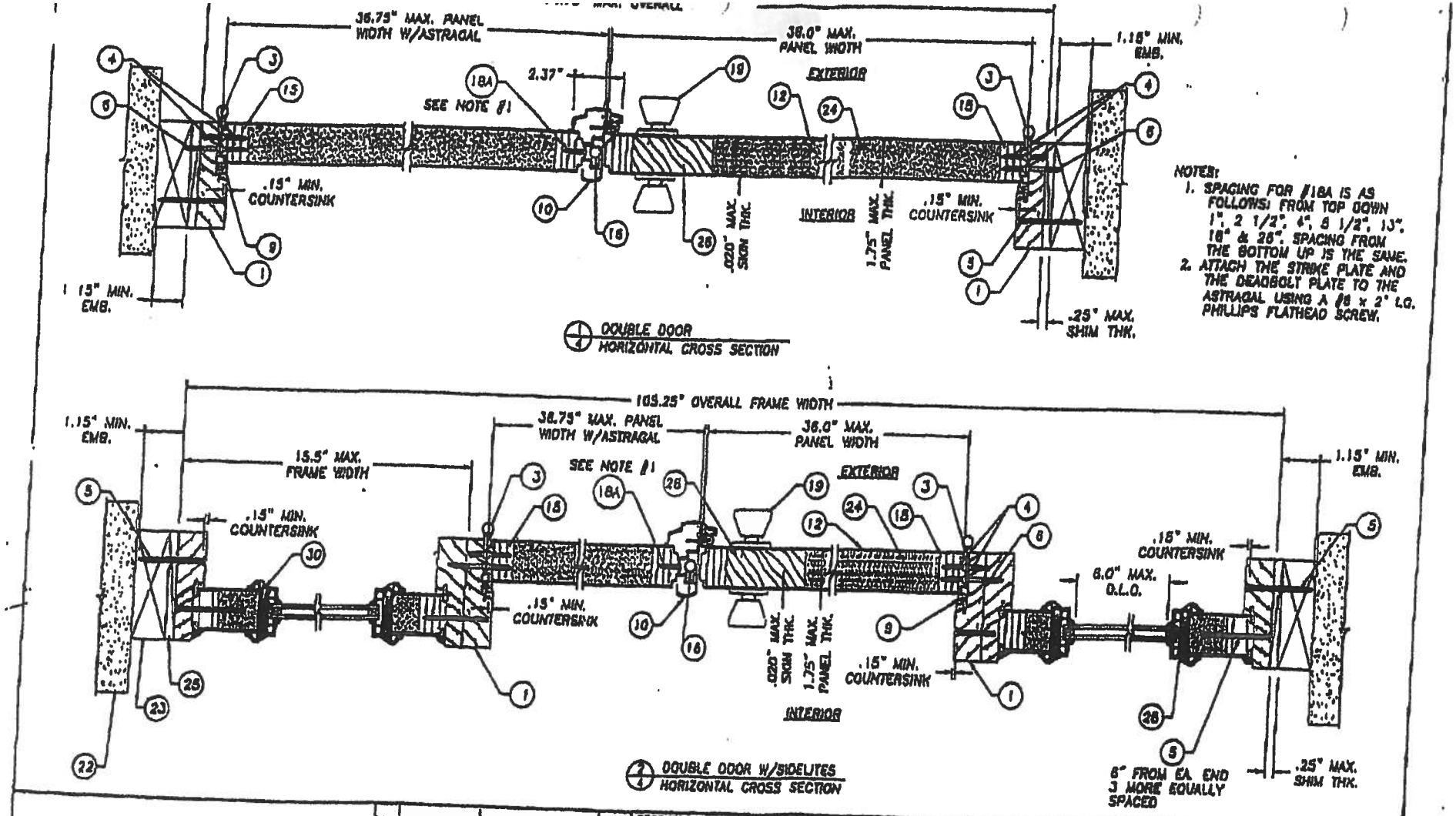
NO.	DATE	REVISIONS	BY

PRODUCT: O/S OPAQUE STEEL DOOR DOUBLE & SINGLE UNITS W & W/O SIDELITES

PART OR ASSEMBLY: ELEVATIONS AND GENERAL NOTES

JELD-WEN, INC.
31725 HIGHWAY 97 NORTH
CHILOQUIN, OR. 97624
PH. 541.783.2057


JELD-WEN, INC.
31725 HIGHWAY 97 NORTH
CHILOQUIN, OR. 97624
PH. 541.783.2057
PRODUCT:
O/S OPAQUE STEEL DOOR DOUBLE & SINGLE UNITS W & W/O SIDELITES
PART OR ASSEMBLY:
ANCHORING LOCATIONS AND GLASS DETAIL
NO.
DATE
REVISIONS
BY
GLASS DETAIL
HINGE DETAIL
SINGLE DOOR ANCHORING LOCATIONS
DOUBLE DOOR W/SIDELITES ANCHORING LOCATIONS
.125" TEMPERED GLASS
.25" AIR SPACE
13.85"



JELD-WEN, INC.
1725 HIGHWAY 97 NORTH
ILOQUIN, OR. 97624
PH. 541.783.2057

NO	DATE	REVISIONS	BY

PRODUCT: O/S OPAQUE STEEL DOOR DOUBLE & SINGLE UNITS W & W/O SIDELITES

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

RW BUILDING CONSULTANTS, INC. 813.684.3831

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 11/7/2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1002.05

DATE	9/25/00
SCALE	N.T.S.
DWG. BY	TJH
APPR. BY	RW
DRAWING NO.	002005
SHEET	6 of 8

R W B C

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33594 Phone 813.684.3831 Facsimile 813.684.3831

ENGINEER'S NOTICE OF EVALUATION # GSJ-162F

JELD-WEN, INC.
3250 Lakepoint Blvd.
Klamath Falls, Oregon 97601
Phone 541.783.2057 Facsimile 541.783.3592

DESCRIPTION OF UNIT

Model Designation: DoorCraft®Gladiator® Steel Door (Glazed or Opaque) with or without Side-lites

Maximum Overall Nominal Size: up to 5'4 x 6'8 **Usable In-swing Configurations:** X, OXO, XO & OX

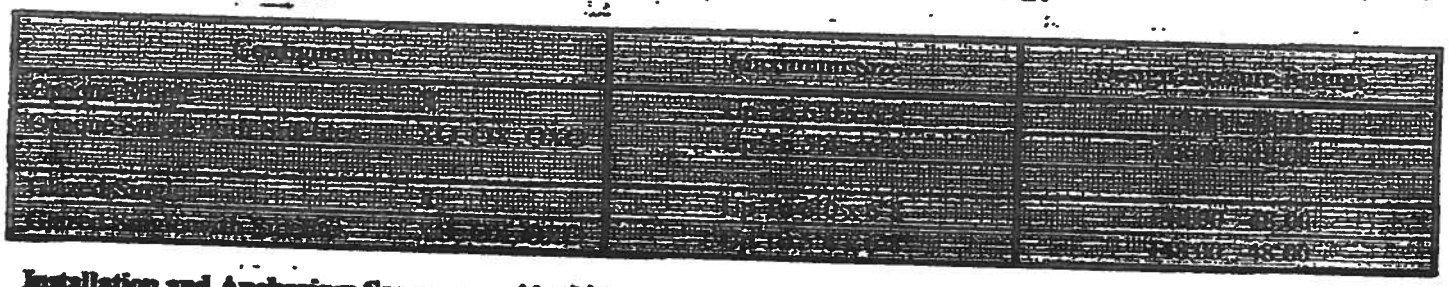
General Description: The head and jambs are wood measuring 4.5" x 1.25" with an extruded aluminum saddle threshold. The door panels and sidelite panels are 1.75" thick and consist of two 25 gauge (min 0.018") steel skins glued to wood stiles and rails with an expanded polystyrene core. The glazed models are routed to receive ½" insulated tempered lip lite inserts manufactured by ODL.

FBC Section 1707 Materials and Assembly Tests:
(1707.4.3 Exterior Door Assemblies; 1707.4.5 Mullions Door Assemblies)

Test	Description	Test Location	Date	Report No.	Certifying Engineer
ASTM E330	Uniform Static Air Pressure	CTL—Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-288-MH	Ramesh Patel P.E. # 20224 J. Chuck Johnson P.E. # 15891
AAMA 1302.5	Forced Entry	CTL—Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-288-MH	Ramesh Patel P.E. # 20224 J. Chuck Johnson P.E. # 15891
ASTM E331	** Water Penetration	CTL—Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-288-MH	Ramesh Patel P.E. # 20224 J. Chuck Johnson P.E. # 15891
ASTM E283	Air Infiltration	CTL—Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-288-MH	Ramesh Patel P.E. # 20224 J. Chuck Johnson P.E. # 15891

** Sidelites are considered a window and meet 15% of Positive Design Pressure water infiltration criteria under ASTM E331.

Design Pressure Ratings:



Installation and Anchoring: See reverse side this page

Use

1. Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures does not exceed the design pressure ratings listed above.

2. For Masonry installations where the sub-buck is less than 1-1/2 inches (FBC section 1707.4.4 Anchorage Methods and sub-sections 1707.4.4.1 and 1707.4.4.2) same diameter Tapcon type concrete anchors must be substituted and the length must be such that a minimum 1-1/4" engagement of the Tapcon into the masonry wall is obtained.

Certification: Florida Professional Engineer - Seal No. 54158 March 12, 2002 Wendell Haney

DoorCraft® Gladiator Wood ...

Maximum Size Up To 5'4 x 6'8