Columbia County Building Permit Application

6076

For Office Use Only Application # 0607-22 Date Received 7-11-06 By G Permit # 1165/24802

Application Approved by - Zoning Official BLK Date 11.07.06 Plans Examiner OK JTH Date 8-28-0

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

Comments Plat Requires 1st Floor Elevation to be 108.0' Elevation Letter Required

City Water

Applicants Name BAUHUS INC/WOLF SCHROM Phone 386-364-4783

Address PO BOX 656, LIVE OAK, FL 32064

Owners Name BAUHUS INC Phone

911 Address 349 SW BUTTERCUP DR, Lake City, FL

Contractors Name WOLF SCHROM Phone 813-786-0730

Address PO BOX 656 - LIVE OAK FL 32066

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address MARK DISAWAY

Mortgage Lenders Name & Address N/A

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

Property ID Number 15-4S-16-03023-539 Estimated Cost of Construction

Subdivision Name ROLLING MEDOWS Lot 39 Block ___ Unit ___ Phase ___

Driving Directions SISTERS WELLCOME PASS I75, TAKE A RIGHT (TL) ON HERLONG HOPE ROLLING MEDOWS IS ON LEFT TAKE MORNING GLORY, TR Buttercup, End Cul-de-sac on right

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 0.5 Lot Size IRREG. Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dri

Actual Distance of Structure from Property Lines - Front 43' Side 12' Side 12' Rear 70'

Total Building Height 21' Number of Stories 1 Heated Floor Area 1771 Roof Pitch 8/12

2413

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 o 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 GC047190

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 11th day of July 2006.

Personally known ✓ or Produced Identification ___

ANNE TEDDER
MY COMMISSION # DD 333580
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Notary Signature

This instrument prepared by:
William J. Haley, Esquire
Brannon, Brown,
Haley & Bullock, P. A.
P. O. Box 1029
Lake City, FL 32056-1029

Inst:2005026508 Date:10/25/2005 Time:10:46
Doc Stamp-Deed : 599.90
DC,P.DeWitt Cason,Columbia County B:1062 P:2424

SPECIAL WARRANTY DEED

THIS INDENTURE, made this 21st day of October, 2005, between **RML HOLDINGS, INC., a Florida corporation,** having a mailing address of 703 NW Blackberry Circle, Lake City, Florida 32055, hereinafter referred to as Grantor, and **BAUHUS, INC.**, a Florida corporation, having a mailing address of P.O. Box 656, Live Oak, Florida 32064, hereinafter referred to as Grantee.

WITNESSETH: That said Grantor, for and in consideration of the sum of $10.00 and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt and sufficiency of which are hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the following described land, situate, lying and being in **Columbia** County, Florida, to-wit:

Lot(s) 35, 39 & 42, **ROLLING MEADOWS**, a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida

PARCEL NO. Part of 15-4S-16-03023-005

SUBJECT TO: Taxes and special assessments for the year 2005 and subsequent years; restrictions, reservations, rights of way for public roads, easements of record, if any; and zoning and any other governmental restrictions regulating the use of the lands.

and said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons claiming by, through or under said Grantor.

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered
in the presence of:

Barbara J Meyers
Print Name: BARBARA J MEYERS

Debbie G. Moore
Print Name: Debbie G. Moore

RML HOLDINGS, INC., a Florida corporation

By: _____
Robert R. Lardizabal
President

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 20th day of October, 2005, by Robert R. Lardizabal, as President of RML Holdings, Inc., a Florida corporation, on behalf of said corporation, who is personally known to me.

Debbie G. Moore
Notary Public, State of Florida

NOTARY PUBLIC * STATE OF FLORIDA *
Debbie G. Moore
Commission # DD400475
Expires March 16, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-7019

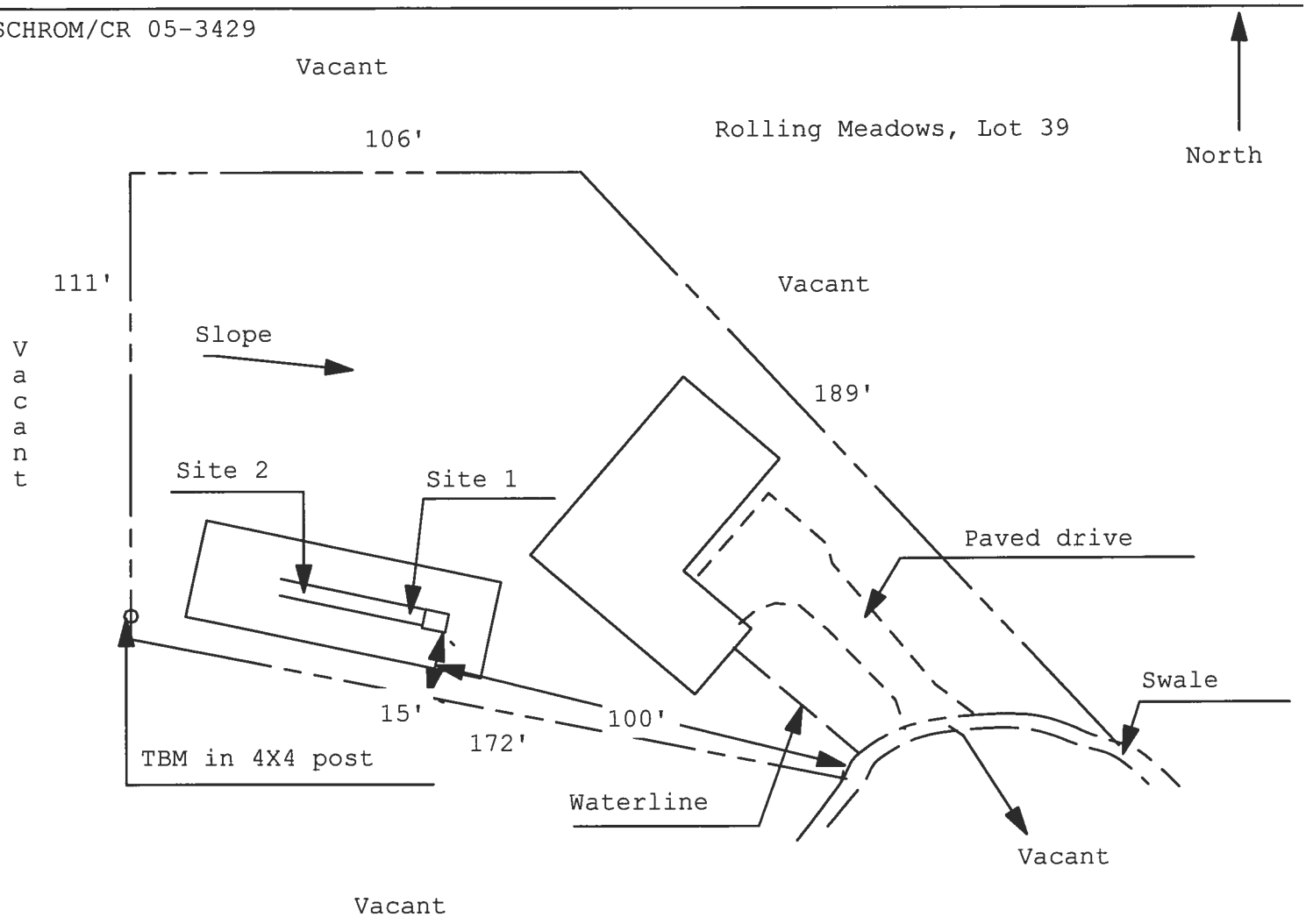
Inst:2005026508 Date:10/25/2005 Time:10:46
Doc Stamp-Deed : 599.90
DC,P.DeWitt Cason,Columbia County B:1062 P:2425

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

Permit Application Number: 06-0413N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SCHROM/CR 05-3429



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd **Date** 3/21/06

Plan Approved ✓ **Not Approved** ____ **Date** 4/26/06

By [illegible] Columbia **CPHU**

Notes: _____

Notice of Treatment 12167

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: PO Box 412
City Lake City Phone 752-1703

Site Location: Subdivision Rolling Meadows
Lot # 39 Block# _____ Permit # 24807
Address 329 Buttercup

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

Type treatment: ☐ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
Dwelling	2413	999	10

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

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

10/06/06 (Date) 1000-1130 1430-1630 (Time) FSU Guard (Print Technician's Name)

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

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:	**605225Bauhus Inc**	Builder:	B. Wolf Schroen
Address:	**Lot: 39, Sub: Rolling Meadows, Plat:**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	24802
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)	1771 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) 215.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 215.0 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=19.0, 1771.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1297.0 ft²	
b.	Frame, Wood, Exterior	R=13.0, 148.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1821.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 180.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 31.0 kBtu/hr SEER: 10.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 31.0 kBtu/hr HSPF: 7.00	
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: 26386
Total base points: 26671

PASS

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

PREPARED BY: Ben Lynch

DATE: 6-13-06

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

OWNER/AGENT: _____

DATE: 7.10.06

BAUHUS INC. WOLF SCHROEN General Contractor GC#47190 TEL/FAX 386-364-4[illegible]

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: _____

GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST

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: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	**1771.0**	**20.04**	**6388.4**	Double, Clear	S	1.5	5.5	45.0	35.87	0.83	1343.1	
				Double, Clear	E	1.5	5.5	7.0	42.06	0.90	263.9	
				Double, Clear	S	1.5	5.5	14.0	35.87	0.83	417.9	
				Double, Clear	W	1.5	5.5	7.0	38.52	0.90	241.9	
				Double, Clear	S	8.0	7.0	30.0	35.87	0.50	538.2	
				Double, Clear	S	8.0	7.0	20.0	35.87	0.50	358.8	
				Double, Clear	W	1.5	5.5	15.0	38.52	0.90	518.3	
				Double, Clear	N	1.5	5.5	30.0	19.20	0.93	534.7	
				Double, Clear	N	3.0	7.0	5.0	19.20	0.86	82.5	
				Double, Clear	N	1.5	0.0	20.0	19.20	0.59	227.8	
				Double, Clear	E	1.5	3.5	6.0	42.06	0.78	195.7	
				Double, Clear	E	1.5	4.5	16.0	42.06	0.85	570.7	
				As-Built Total:				**215.0**			**5293.4**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1297.0	1.50	1945.5
Exterior	1445.0	1.70	2456.5	Frame, Wood, Exterior	13.0	148.0	1.50	222.0
Base Total:	**1445.0**		**2456.5**	**As-Built Total:**		**1445.0**		**2167.5**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	40.0	4.10	164.0	Adjacent Insulated	20.0	1.60	32.0
				Exterior Insulated	20.0	4.10	82.0
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	1771.0	1.73	3063.8	Under Attic	30.0	1821.0	1.73 X 1.00	3150.3
Base Total:	**1771.0**		**3063.8**	**As-Built Total:**		**1821.0**		**3150.3**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	19.0	1771.0	-1.50	-2656.5
Raised	1771.0	-3.99	-7066.3					
Base Total:			**-7066.3**	**As-Built Total:**		**1771.0**		**-2656.5**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points	
	1771.0	10.21	18081.9			1771.0	10.21		18081.9	
Summer Base Points: 23120.3				**Summer As-Built Points:**					**26232.6**	
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 31000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
				26233	1.00	(1.09 x 1.147 x 0.91)	0.341	1.000	10186.1	
23120.3	**0.4266**	**9863.1**		**26232.6**	**1.00**	**1.138**	**0.341**	**1.000**	**10186.1**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1771.0	12.74	4061.3	Double, Clear	S	1.5	5.5	45.0	13.30	1.15	686.4	
				Double, Clear	E	1.5	5.5	7.0	18.79	1.04	137.0	
				Double, Clear	S	1.5	5.5	14.0	13.30	1.15	213.5	
				Double, Clear	W	1.5	5.5	7.0	20.73	1.03	149.2	
				Double, Clear	S	8.0	7.0	30.0	13.30	2.96	1182.5	
				Double, Clear	S	8.0	7.0	20.0	13.30	2.96	788.4	
				Double, Clear	W	1.5	5.5	15.0	20.73	1.03	319.7	
				Double, Clear	N	1.5	5.5	30.0	24.58	1.00	739.5	
				Double, Clear	N	3.0	7.0	5.0	24.58	1.01	123.8	
				Double, Clear	N	1.5	0.0	20.0	24.58	1.03	505.0	
				Double, Clear	E	1.5	3.5	6.0	18.79	1.09	123.3	
				Double, Clear	E	1.5	4.5	16.0	18.79	1.06	318.9	
				As-Built Total:				**215.0**			**5287.2**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1297.0	3.40	4409.8
Exterior	1445.0	3.70	5346.5	Frame, Wood, Exterior	13.0	148.0	3.40	503.2
Base Total:	**1445.0**		**5346.5**	**As-Built Total:**		**1445.0**		**4913.0**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	20.0	8.40	168.0
Exterior	40.0	8.40	336.0	Adjacent Insulated	20.0	8.00	160.0
				Exterior Insulated	20.0	8.40	168.0
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	1771.0	2.05	3630.5	Under Attic	30.0	1821.0	2.05 X	1.00	3733.0
Base Total:	**1771.0**		**3630.5**	**As-Built Total:**		**1821.0**			**3733.0**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	19.0	1771.0	0.80	1416.8
Raised	1771.0	0.96	1700.2					
Base Total:			**1700.2**	**As-Built Total:**		**1771.0**		**1416.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	1771.0	-0.59	-1044.9		1771.0	-0.59	-1044.9			
Winter Base Points:			**14189.6**	**Winter As-Built Points:**						**14801.1**
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 31000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
14189.6		**0.6274**	**8902.5**	14801.1 **14801.1**		1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.487 **0.487**	1.000 **1.000**	8379.7 **8379.7**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
9863	**8903**	**7905**	**26671**	**10186**	**8380**	**7820**	**26386**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.5

The higher the score, the more efficient the home.

Spec House, Lot: 39, Sub: Rolling Meadows, Plat: , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 31.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 10.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1771 ft²		c. N/A	
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) 215.0 ft²	13.	Heating systems	
				a. Electric Heat Pump	Cap: 31.0 kBtu/hr
	b. SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 215.0 ft²			HSPF: 7.00
				b. N/A	
8.	Floor types				
	a. Raised Wood, Stem Wall	R=19.0, 1771.0ft²		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, 1297.0 ft²			EF: 0.93
	b. Frame, Wood, Exterior	R=13.0, 148.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
	e. N/A				
10.	Ceiling types		15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
	a. Under Attic	R=30.0, 1821.0 ft²			
	b. N/A				
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 180.0 ft			
	b. N/A				

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

Builder Signature: _____ Date: 7.10.06

Address of New Home: 348 SW BUTTERCUP City/FL Zip: L.C. FL 32025

**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.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001165

DATE 07/28/2006 PARCEL ID # 15-4S-16-03023-539

APPLICANT WOLF SCHROM PHONE 813 786-0730

ADDRESS P.O. BOX 656 LIVE OAK FL 32060

OWNER BAUHUS INC/WOLF SCHROM PHONE 813 786-0730

ADDRESS 349 SW BUTTERCUP DRIVE LAKE CITY FL 32025

CONTRACTOR WOLF SCHROM PHONE 813 786-0730

LOCATION OF PROPERTY 90W, TL ON SISTERS WELCOME RD, TL ON HOPE HENRY, TL ON MORNING GLORY, TR ON BUTTERCUP, END OF CUL-DE-SAC ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 39

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

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

Reference to a building permit application Number: 0607-22

Contractor: Bauhus Inc Owner Bauhus Inc 15-4s-16-03023-539

On the date of July 17, 2006 application 0607-22 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0607-22 and when making reference to this application.

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

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

1. The attic access opening (pull down ladder type attic egress door) in the garage ceiling shall have the same protection requirements of FRC-2004 C: R309.2

Separation required. The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

2. The door which allows egress into the dwelling from the garage area shall meet section R309.1 Opening protection: Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

3. The electrical plan shows the location of the electrical service, Please indicate on the electrical plan that an overcurrent protection device will be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Joe Haltiwanger

Plan Examiner

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:	**605225Bauhus Inc**	Builder:	
Address:	**Lot: 39, Sub: Rolling Meadows, Plat:**	Permitting Office:	
City, State:	**, FL**	Permit Number:	
Owner:	**Spec House**	Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 31.0 kBtu/hr SEER: 10.00
3. Number of units, if multi-family	1	b. N/A	
4. Number of Bedrooms	3	c. N/A	
5. Is this a worst case?	Yes	13. Heating systems	
6. Conditioned floor area (ft²)	1771 ft²	a. Electric Heat Pump	Cap: 31.0 kBtu/hr HSPF: 7.00
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		b. N/A	
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 215.0 ft²	c. N/A	
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 215.0 ft²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons EF: 0.93
a. Raised Wood, Stem Wall	R=19.0, 1771.0ft²	b. N/A	
b. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
9. Wall types			
a. Frame, Wood, Exterior	R=13.0, 1297.0 ft²		
b. Frame, Wood, Exterior	R=13.0, 148.0 ft²		
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1821.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 180.0 ft		
b. N/A			

Glass/Floor Area: 0.12

Total as-built points: 26386

Total base points: 26671

PASS

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

PREPARED BY: _____

DATE: 6-13-06

BAUHUS INC
WOLF SCHROM
General Contractor
GC#47190
TEL/FAX
386-364-4782

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

OWNER/AGENT: _____

DATE: 7.10.06

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

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

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: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	**1771.0**	**20.04**	**6388.4**	Double, Clear	S	1.5	5.5	45.0	35.87	0.83	1343.1	
				Double, Clear	E	1.5	5.5	7.0	42.06	0.90	263.9	
				Double, Clear	S	1.5	5.5	14.0	35.87	0.83	417.9	
				Double, Clear	W	1.5	5.5	7.0	38.52	0.90	241.9	
				Double, Clear	S	8.0	7.0	30.0	35.87	0.50	538.2	
				Double, Clear	S	8.0	7.0	20.0	35.87	0.50	358.8	
				Double, Clear	W	1.5	5.5	15.0	38.52	0.90	518.3	
				Double, Clear	N	1.5	5.5	30.0	19.20	0.93	534.7	
				Double, Clear	N	3.0	7.0	5.0	19.20	0.86	82.5	
				Double, Clear	N	1.5	0.0	20.0	19.20	0.59	227.8	
				Double, Clear	E	1.5	3.5	6.0	42.06	0.78	195.7	
				Double, Clear	E	1.5	4.5	16.0	42.06	0.85	570.7	
				As-Built Total:				**215.0**			**5293.4**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1297.0	1.50	1945.5
Exterior	1445.0	1.70	2456.5	Frame, Wood, Exterior	13.0	148.0	1.50	222.0
Base Total:	**1445.0**		**2456.5**	**As-Built Total:**		**1445.0**		**2167.5**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	40.0	4.10	164.0	Adjacent Insulated	20.0	1.60	32.0
				Exterior Insulated	20.0	4.10	82.0
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	1771.0	1.73	3063.8	Under Attic	30.0	1821.0	1.73 X 1.00	3150.3
Base Total:	**1771.0**		**3063.8**	**As-Built Total:**		**1821.0**		**3150.3**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	19.0	1771.0	-1.50	-2656.5
Raised	1771.0	-3.99	-7066.3					
Base Total:			**-7066.3**	**As-Built Total:**		**1771.0**		**-2656.5**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	1771.0	10.21	18081.9		1771.0	10.21	18081.9			
Summer Base Points: 23120.3				**Summer As-Built Points:**						**26232.6**
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 31000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)						
				26233	1.00	(1.09 x 1.147 x 0.91)	0.341	1.000	10186.1	
23120.3	**0.4266**	**9863.1**		**26232.6**	**1.00**	**1.138**	**0.341**	**1.000**	**10186.1**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	**1771.0**	**12.74**	**4061.3**

AS-BUILT

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF =	Points
Double, Clear	S	1.5	5.5	45.0	13.30	1.15	686.4
Double, Clear	E	1.5	5.5	7.0	18.79	1.04	137.0
Double, Clear	S	1.5	5.5	14.0	13.30	1.15	213.5
Double, Clear	W	1.5	5.5	7.0	20.73	1.03	149.2
Double, Clear	S	8.0	7.0	30.0	13.30	2.96	1182.5
Double, Clear	S	8.0	7.0	20.0	13.30	2.96	788.4
Double, Clear	W	1.5	5.5	15.0	20.73	1.03	319.7
Double, Clear	N	1.5	5.5	30.0	24.58	1.00	739.5
Double, Clear	N	3.0	7.0	5.0	24.58	1.01	123.8
Double, Clear	N	1.5	0.0	20.0	24.58	1.03	505.0
Double, Clear	E	1.5	3.5	6.0	18.79	1.09	123.3
Double, Clear	E	1.5	4.5	16.0	18.79	1.06	318.9
As-Built Total:				**215.0**			**5287.2**

WALL TYPES

	Area X	BWPM =	Points
Adjacent	0.0	0.00	0.0
Exterior	1445.0	3.70	5346.5
Base Total:	**1445.0**		**5346.5**

Type	R-Value	Area X	WPM =	Points
Frame, Wood, Exterior	13.0	1297.0	3.40	4409.8
Frame, Wood, Exterior	13.0	148.0	3.40	503.2
As-Built Total:		**1445.0**		**4913.0**

DOOR TYPES

	Area X	BWPM =	Points
Adjacent	20.0	8.00	160.0
Exterior	40.0	8.40	336.0
Base Total:	**60.0**		**496.0**

Type	Area X	WPM =	Points
Exterior Insulated	20.0	8.40	168.0
Adjacent Insulated	20.0	8.00	160.0
Exterior Insulated	20.0	8.40	168.0
As-Built Total:	**60.0**		**496.0**

CEILING TYPES

	Area X	BWPM =	Points
Under Attic	1771.0	2.05	3630.5
Base Total:	**1771.0**		**3630.5**

Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	30.0	1821.0	2.05 X 1.00	3733.0
As-Built Total:		**1821.0**		**3733.0**

FLOOR TYPES

	Area X	BWPM =	Points
Slab	0.0(p)	0.0	0.0
Raised	1771.0	0.96	1700.2
Base Total:			**1700.2**

Type	R-Value	Area X	WPM =	Points
Raised Wood, Stem Wall	19.0	1771.0	0.80	1416.8
As-Built Total:		**1771.0**		**1416.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT					
INFILTRATION Area X BWPM = Points			Area X WPM = Points					
1771.0	-0.59	-1044.9	1771.0	-0.59	-1044.9			
Winter Base Points:		**14189.6**	**Winter As-Built Points:**					**14801.1**
Total Winter Points X	System Multiplier =	Heating Points	Total Component (System - Points) X	Cap Ratio X	Duct Multiplier (DM x DSM x AHU) X	System Multiplier X	Credit Multiplier =	Heating Points
			(sys 1: Electric Heat Pump 31000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			14801.1	1.000	(1.069 x 1.169 x 0.93)	0.487	1.000	8379.7
14189.6	**0.6274**	**8902.5**	**14801.1**	**1.00**	**1.162**	**0.487**	**1.000**	**8379.7**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points		Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	
9863	**8903**	**7905**	**26671**		**10186**	**8380**	**7820**	**26386**	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 39, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.5

The higher the score, the more efficient the home.

Spec House, Lot: 39, Sub: Rolling Meadows, Plat: , , FL,

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)	1771 ft²	___
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
a. U-factor:	Description Area	
(or Single or Double DEFAULT) 7a.	(Dble Default) 215.0 ft²	___
b. SHGC:		
(or Clear or Tint DEFAULT) 7b.	(Clear) 215.0 ft²	___
8. Floor types		
a. Raised Wood, Stem Wall	R=19.0, 1771.0ft²	___
b. N/A		___
c. N/A		___
9. Wall types		
a. Frame, Wood, Exterior	R=13.0, 1297.0 ft²	___
b. Frame, Wood, Exterior	R=13.0, 148.0 ft²	___
c. N/A		___
d. N/A		___
e. N/A		___
10. Ceiling types		
a. Under Attic	R=30.0, 1821.0 ft²	___
b. N/A		___
c. N/A		___
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 180.0 ft	___
b. N/A		___

12. Cooling systems		
a. Central Unit	Cap: 31.0 kBtu/hr	___
	SEER: 10.00	___
b. N/A		___
		___
c. N/A		___
		___
13. Heating systems		
a. Electric Heat Pump	Cap: 31.0 kBtu/hr	___
	HSPF: 7.00	___
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)		___

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: [signature] Date: 7.10.06

Address of New Home: 349 SW Buttercup City/FL Zip: L.C. FL 32025

**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.

EnergyGauge® (Version: FLR2PB v4.1)

Residential System Sizing Calculation

Summary

Spec House

, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

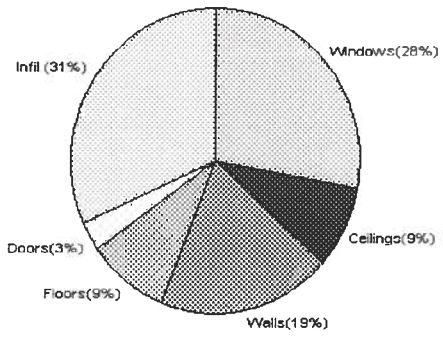
6/13/2006

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	**24486**	**Btuh**	**Total cooling load calculation**	**26394**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	126.6	31000	Sensible (SHR = 0.75)	107.8	23250
Heat Pump + Auxiliary(0.0kW)	126.6	31000	Latent	160.6	7750
			Total (Electric Heat Pump)	117.4	31000

WINTER CALCULATIONS

Winter Heating Load (for 1771 sqft)

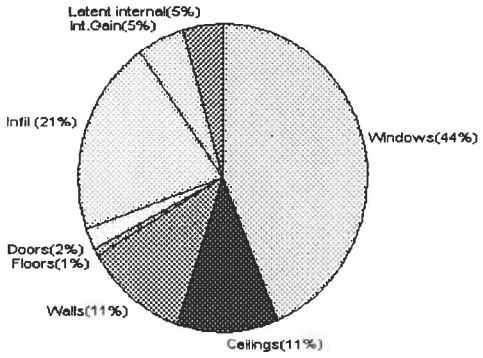
Load component			Load	
Window total	215	sqft	6921	Btuh
Wall total	1445	sqft	4745	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	1821	sqft	2146	Btuh
Floor total	1771	sqft	2245	Btuh
Infiltration	189	cfm	7652	Btuh
Duct loss			0	Btuh
Subtotal			**24486**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**24486**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1771 sqft)

Load component			Load	
Window total	215	sqft	11494	Btuh
Wall total	1445	sqft	3014	Btuh
Door total	60	sqft	588	Btuh
Ceiling total	1821	sqft	3016	Btuh
Floor total			233	Btuh
Infiltration	99	cfm	1846	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**21570**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3624	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**4824**	**Btuh**
TOTAL HEAT GAIN			**26394**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Glen Lynch
DATE: 6-13-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

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

6/13/2006

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	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	SW	7.0	32.2	225 Btuh
3	2, Clear, Metal, 0.87	NW	14.0	32.2	451 Btuh
4	2, Clear, Metal, 0.87	NE	7.0	32.2	225 Btuh
5	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
7	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
8	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
10	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
11	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
12	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
	Window Total		215(sqft)		6921 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1297	3.3	4259 Btuh
2	Frame - Wood - Ext(0.09)	13.0	148	3.3	486 Btuh
	Wall Total		1445		4745 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1821	1.2	2146 Btuh
	Ceiling Total		1821		2146Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Stem Wall	19	1771.0 sqft	1.3	2245 Btuh
	Floor Total		1771		2245 Btuh
			Zone Envelope Subtotal:		16834 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	14168	188.9	7652 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**24486 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

6/13/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	24486 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24486 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
, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

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

6/13/2006

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	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	SW	7.0	32.2	225 Btuh
3	2, Clear, Metal, 0.87	NW	14.0	32.2	451 Btuh
4	2, Clear, Metal, 0.87	NE	7.0	32.2	225 Btuh
5	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
6	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
7	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
8	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
10	2, Clear, Metal, 0.87	SE	20.0	32.2	644 Btuh
11	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
12	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
	Window Total		215(sqft)		6921 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1297	3.3	4259 Btuh
2	Frame - Wood - Ext(0.09)	13.0	148	3.3	486 Btuh
	Wall Total		1445		4745 Btuh
Doors	Type		Area X	HTM=	Load
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2	Insulated - Adjacent		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1821	1.2	2146 Btuh
	Ceiling Total		1821		2146Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Stem Wall	19	1771.0 sqft	1.3	2245 Btuh
	Floor Total		1771		2245 Btuh
			Zone Envelope Subtotal:		16834 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	14168	188.9	7652 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**24486 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

6/13/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	24486 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24486 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

, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

6/13/2006

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.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	7.0	1.0	6.0	29	63	403 Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	14.0	0.0	14.0	29	60	841 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	7.0	0.0	7.0	29	60	420 Btuh
5	2, Clear, 0.87, None,N,N	NW	8ft.	7ft.	30.0	0.0	30.0	29	60	1801 Btuh
6	2, Clear, 0.87, None,N,N	NW	8ft.	7ft.	20.0	0.0	20.0	29	60	1201 Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468 Btuh
9	2, Clear, 0.87, None,N,N	SE	3ft.	7ft.	5.0	3.0	2.0	29	63	210 Btuh
10	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	20.0	20.0	0.0	29	63	579 Btuh
11	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729 Btuh
	Window Total				215 (sqft)					11494 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1297.0	2.1	2705 Btuh
2	Frame - Wood - Ext	13.0/0.09	148.0	2.1	309 Btuh
	Wall Total		1445 (sqft)		3014 Btuh

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

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1821.0	1.7	3016 Btuh
	Ceiling Total		1821 (sqft)		3016 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Stem Wall	19.0	1771 (sqft)	0.1	233 Btuh
	Floor Total		1771.0 (sqft)		233 Btuh

			Zone Envelope Subtotal:		18344 Btuh
Infiltration	Type SensibleNatural	ACH 0.42	Volume(cuft) 14168	CFM= 99.2	Load 1846 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230 +	Appliance 0	Load 1380 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**21570 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

6/13/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**21570 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**21570 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**21570 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3624 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4824 Btuh**
	TOTAL GAIN	**26394 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
, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 6/13/2006
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.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	7.0	1.0	6.0	29	63	403 Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	14.0	0.0	14.0	29	60	841 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	7.0	0.0	7.0	29	60	420 Btuh
5	2, Clear, 0.87, None,N,N	NW	8ft.	7ft.	30.0	0.0	30.0	29	60	1801 Btuh
6	2, Clear, 0.87, None,N,N	NW	8ft.	7ft.	20.0	0.0	20.0	29	60	1201 Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468 Btuh
9	2, Clear, 0.87, None,N,N	SE	3ft.	7ft.	5.0	3.0	2.0	29	63	210 Btuh
10	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	20.0	20.0	0.0	29	63	579 Btuh
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	Window Total				215 (sqft)					11494 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1297.0	2.1	2705 Btuh
2	Frame - Wood - Ext	13.0/0.09	148.0	2.1	309 Btuh
	Wall Total		1445 (sqft)		3014 Btuh

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

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1821.0	1.7	3016 Btuh
	Ceiling Total		1821 (sqft)		3016 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Stem Wall	19.0	1771 (sqft)	0.1	233 Btuh
	Floor Total		1771.0 (sqft)		233 Btuh

			Zone Envelope Subtotal:		18344 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	14168	99.2	1846 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	0	1380 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**21570 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
605225Bauhus Inc

Class 3 Rating
Registration No. 0
Climate: North

6/13/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**21570 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**21570 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**21570 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3624 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4824 Btuh**
	TOTAL GAIN	**26394 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

, FL

Project Title:
605225Bauhus Inc

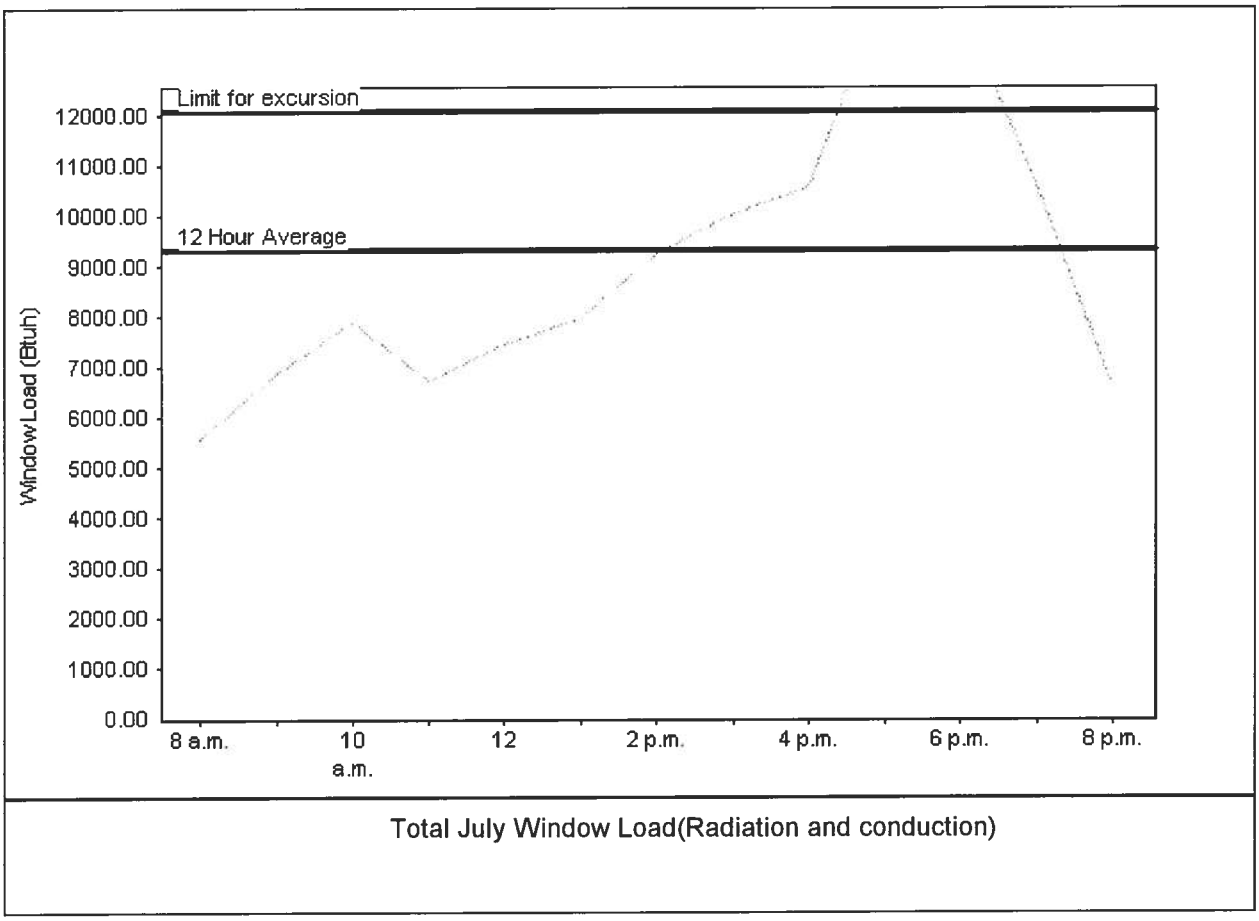
Class 3 Rating
Registration No. 0
Climate: North

6/13/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	9321 Btuh
Summer setpoint	75 F	Peak window load for July	14508 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	12118 Btu
Latitude	29 North	Window excursion (July)	2391 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: Ben Lyons
DATE: 6-13-06

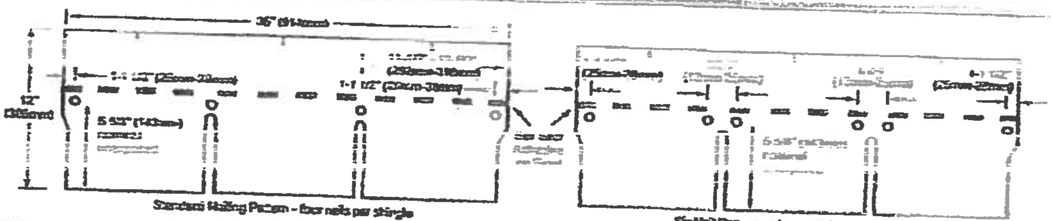
GAF MATERIALS CORPORATION

ROYAL SOVEREIGN® 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 [illegible], tightly-constructed with maximum 6" (152mm) wide lumber, having adequate [illegible] capacity and smooth surface. Plywood decking as recommended by The Engineered Wood [illegible] is acceptable. [illegible] Shingles must not be fastened directly to [illegible] ... existing surfacing material must be dry prior to application of shingles.

• **UNDERLAYMENT:** Underlayment is required on new construction and [illegible] old roof is removed from the deck. Use only "breather type" material like GAF Materials Corporation [illegible] Underlayment or equivalent. Underlayments must be [illegible]

• **FASTENERS:** Use of nails is recommended. [illegible] ... available from GAF Materials Corporation [illegible] 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 [illegible] ... decks. Fasteners must be driven flush with the surface of [illegible] the shingle. Raised fasteners will interfere with the sealing of [illegible] ... of the shingle. Fasteners must be [illegible] ... 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 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 sides and 1" (25mm) from bottom of each tab [illegible]

[illegible] a 4" (102mm) width of asphalt plastic roof cement. [illegible]

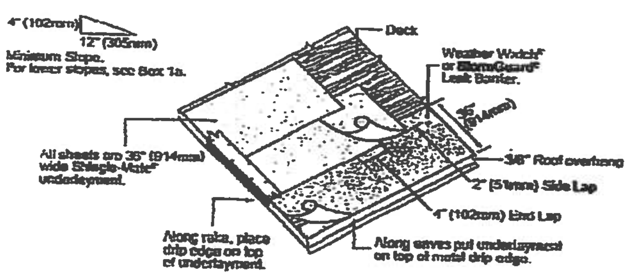
[illegible]

• **THROUGH VENTS** [illegible] to prevent [illegible]

[illegible] D4586 Type I or II.

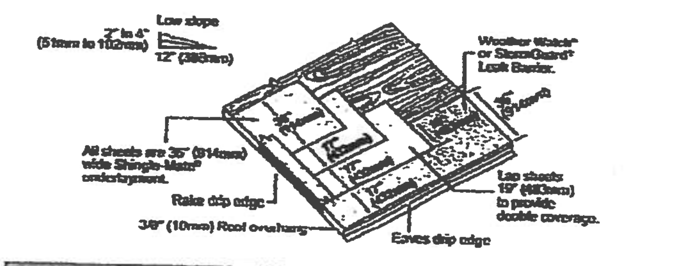
1 Underlayment: Standard Slope—4/12 (333mm/m) or more

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.



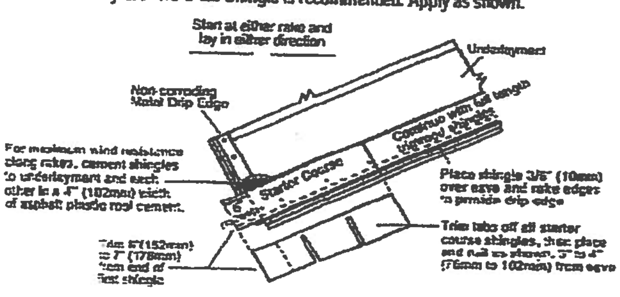
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

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.



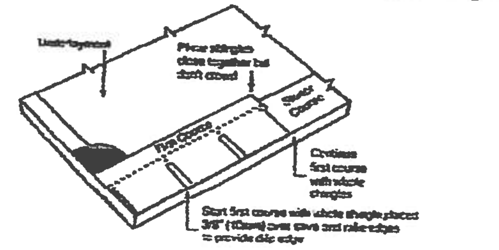
2 Starter Course

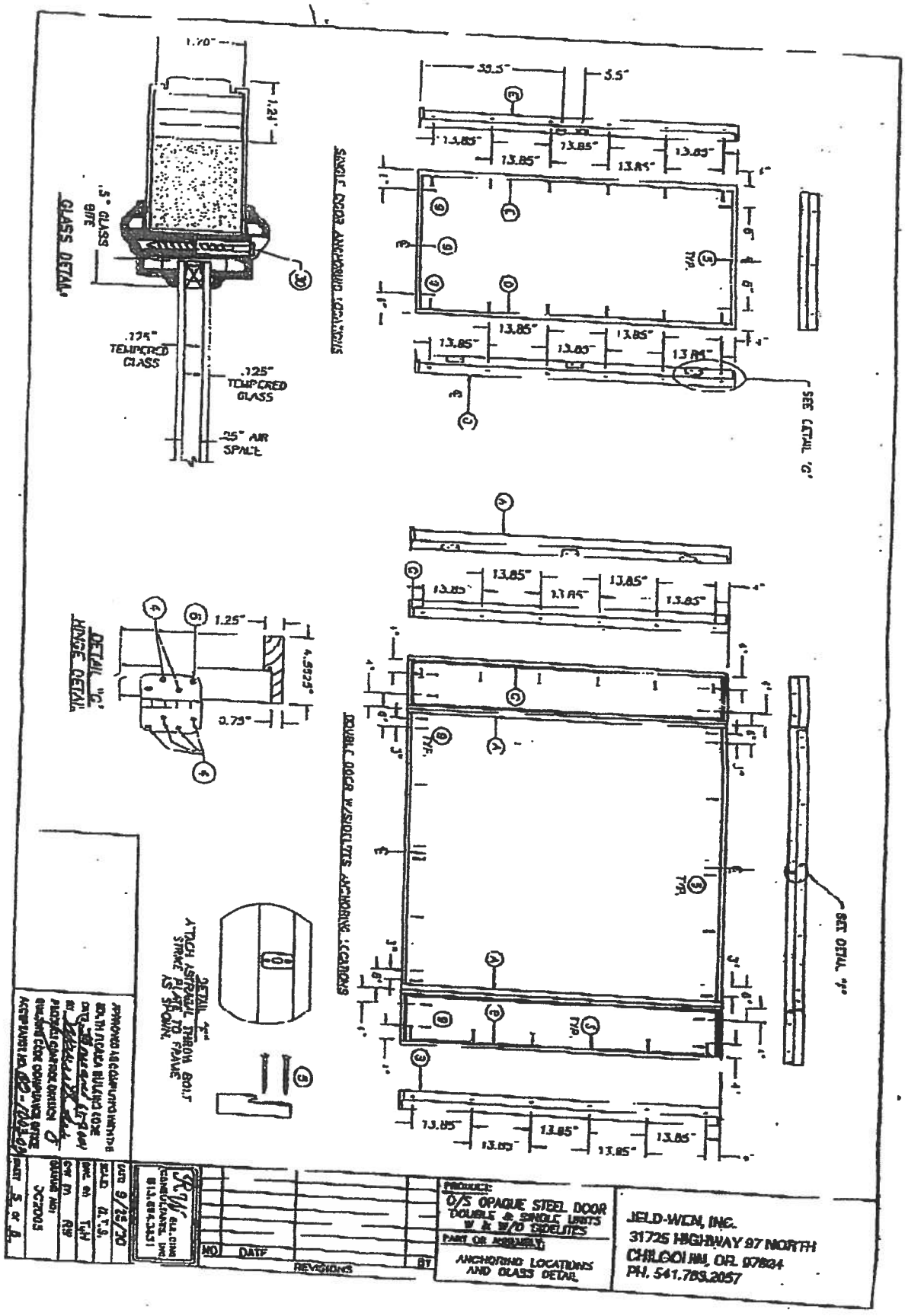
Use of any GAF MC 3-tab Shingle is recommended. Apply as shown.

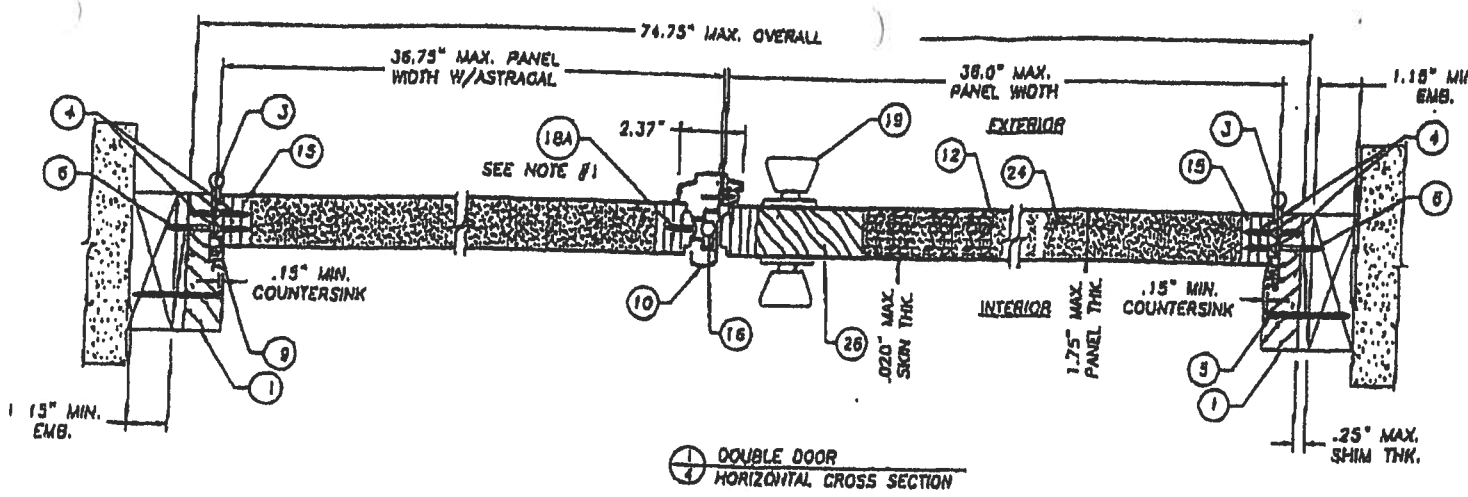


3 First Course

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.

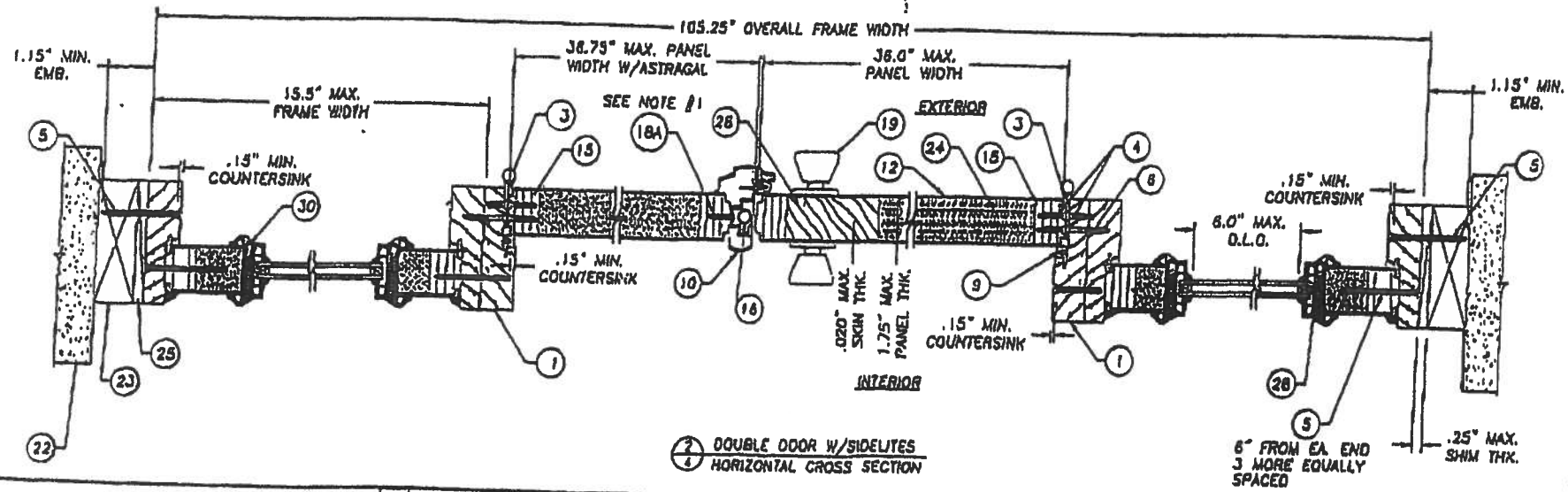



GLASS DETAIL
.5" GLASS BITE
.175" TEMPERED GLASS
.125" TEMPERED GLASS
.25" AIR SPACE
SINGLE DOOR ANCHORING LOCATIONS
SEE DETAIL "G"
HINGE DETAIL "H"
DOUBLE DOOR W/SIDELITES ANCHORING LOCATIONS
SEE DETAIL "F"
DETAIL "I"
ATTACH ASTRAGAL THROW BOLT STRIKE AS SHOWN.
PRODUCT:
O/S OPAQUE STEEL DOOR
DOUBLE & SINGLE UNITS
W & W/O SIDELITES
PART OR ASSEMBLY:
ANCHORING LOCATIONS AND GLASS DETAIL
REVISIONS
JELD-WEN, INC.
31725 HIGHWAY 97 NORTH
CHILOQUIN, OR. 97624
PH. 541.783.2057



1/4 DOUBLE DOOR HORIZONTAL CROSS SECTION

NOTES:
1. SPACING FOR #18A IS AS FOLLOWS: FROM TOP DOWN 1", 2 1/2", 4", 9 1/2", 13", 18" & 26". SPACING FROM THE BOTTOM UP IS THE SAME.
2. ATTACH THE STRIKE PLATE AND THE DEADBOLT PLATE TO THE ASTRAGAL USING A #8 x 2" LG. PHILLIPS FLATHEAD SCREW.



2/4 DOUBLE DOOR W/SIDELITES HORIZONTAL CROSS SECTION

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

NO	DATE	BY
REVISIONS		

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: January 11, 2001
BY: Miami-Dade County
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1003.07

DATE:	9/25/00
SCALE:	N.T.S.
DWG. BY:	TJH
CHK. BY:	RW
DRAWING NO.:	OC2005
SHEET	6 of 6

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 # GSI-162F

JELD-WEN, INC.
3250 Lakeport 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

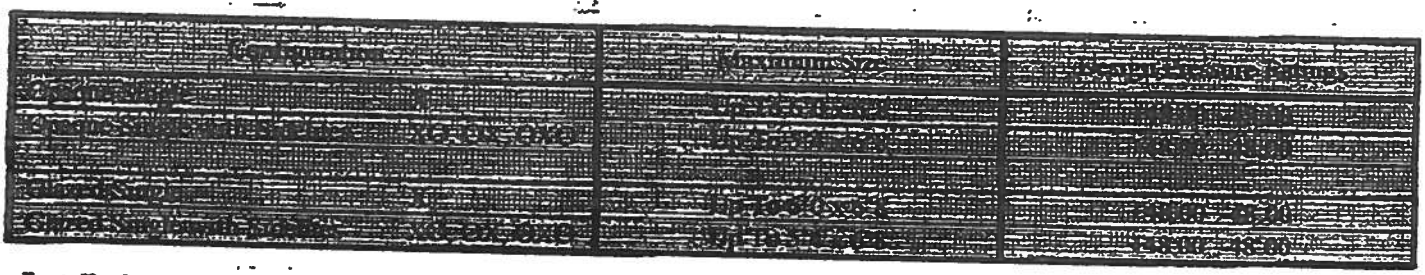
General Description: The head and jambs are wood measuring 4.5" x 1.25" with an extruded aluminum saddle threshold. The door panels and sidelite panels are 1.75" thick and consist of two 25 gauge (min 0.018") steel skins glued to wood stiles and rails with an expanded polystyrene core. The glazed models 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 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark Johnson P.E. # 15891
AAMA 1302.5	Forced Entry	CTL – Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark Johnson P.E. # 15891
ASTM E331	** Water Penetration	CTL – Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark Johnson P.E. # 15891
ASTM E283	Air Infiltration	CTL – Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark 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

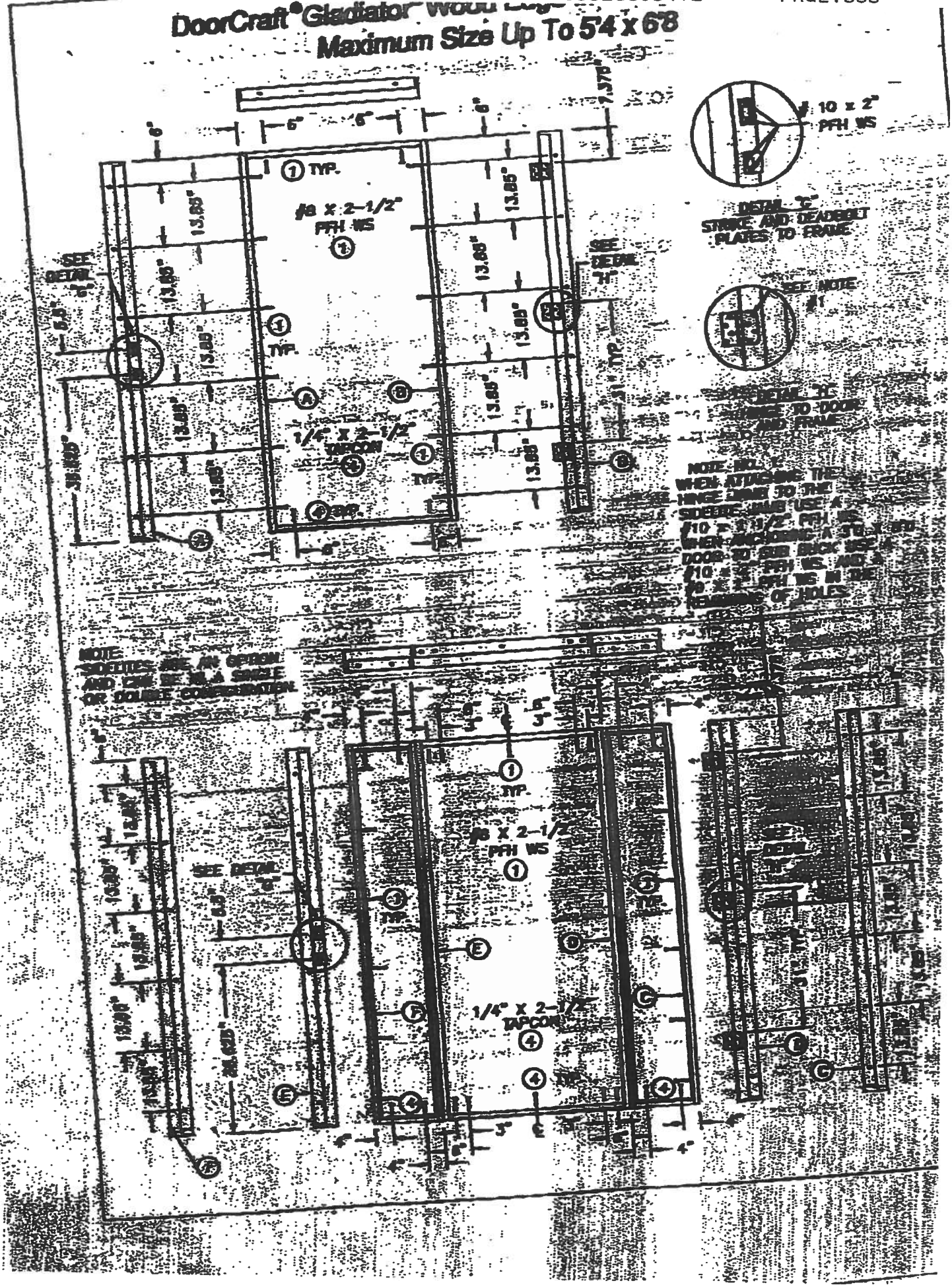
Use

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 Edge
Maximum Size Up To 5'4" x 6'8"



RESOLUTION NUMBER 2000R-9

A RESOLUTION OF COLUMBIA COUNTY, FLORIDA, AMENDING RESOLUTION NO. 99R-50, SECTION 2 A AND B, AND SECTION D, 3 ENTITLED CULVERT INSTALLATION POLICY, ADOPTING AMENDED POLICY REQUIRING INSTALLATION OF CULVERTS IN COLUMBIA COUNTY FOR ACCESS ONTO COUNTY ROAD RIGHTS-OF-WAY, PROVIDING FOR WAIVER OF SUCH POLICY, PROVIDING FOR SITUATIONS OF FINANCIAL HARDSHIP, AND PROVIDING FOR NOTICE TO THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT FOR ACCESS FROM PRIVATE ROADS.

BE IT RESOLVED, by the Board of County Commissioners of Columbia County, Florida, that the following amended Culvert Installation Policy be, and the same is hereby revised, adopted and implemented in Columbia County, Florida as of the date of this Resolution:

1. PURPOSE: There is a need in Columbia County to establish a uniform method for the installation of culverts in order to safeguard and maintain proper county road drainage, citizen access to adjoining property and county road right-of-way preservation.

2. POLICY STATEMENTS: It shall be the policy of the Board of County Commissioners, Columbia County, Florida, that:

(A) A culvert shall be required to be installed as part of any newly constructed private driveway or road, or public road, which connects to a county road in Columbia County. Culvert installation for residential use shall require a permit approved by the Office of the Building Inspector. Culvert installation for commercial, industrial, and other uses shall **conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications.**

(B) The culvert shall comply and be installed in accordance with **Columbia County standards (attached)** and in no case shall the culvert be less than 24 feet in length and 18 inches in diameter excluding mitered ends. Proper installation of the culvert shall be verified by the permit approving agency.

(C) All culverts required by this policy shall be installed prior to the building inspector granting permission to connect permanent electrical service to the facility or facilities being services by the newly constructed private driveway or road. In cases where no electrical service exists, installation shall be completed prior to final inspection approval.

(D) Mitered-end culverts shall be used in the following applications:

(1) When the culvert is to be placed giving access to a paved street.

(2) When the road is contained within a subdivision (recorded or unrecorded) that has not reached a "build out" of fifty percent (50%) or more.

(3) In all new subdivisions for residential use. **New subdivisions shall be required as part of the final plat to specify culvert diameter and length.**

(4) When the predominant use is already established by the use of mitered-end culverts period.

3. WAIVER/APPEALS: Items A and B of Section (2), Policy Statements, may be waived by the Public Works Director upon a determination by the Public Works Director that site conditions do not require strict compliance with this policy. Requests for waiver shall be made in writing and accompanied by an application fee of Fifty Dollars ($50). The decision of the Public Works Director as to any waiver request shall be final. No appeals shall be heard by the Board of County Commissioners.

4. FINANCIAL HARDSHIPS: Applicants experiencing financial hardship may, by signing the appropriate forms, receive a thirty (30) day extension for the installation of the culvert. Permission to connect to electrical service will be granted during this extended period on a temporary basis only. Failure to install the culvert during the allotted time period may result in the electrical service being disconnected.

5. PRIVATE ROADS: Development where private access is gained from private roads shall be brought to the attention of the Suwannee River Water Management District for compliance with surfacement regulations.

Unanimously passed and adopted by the Board of County Commissioners of Columbia County, Florida, in regular session on the 16th day of March, 2000.

BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY, FLORIDA

BY: _____
Zimmie Petty, Chairman

ATTEST:

_____
P. DeWitt Cason, Clerk of Court

INSTALLATION NOTE:

Back fill used to stabilize the culvert shall be compacted to 95% of maximum density; however, the county will make this determination at the time of inspection in lieu of requiring a proctor.

DIMENSIONS						
	D	A	B	C	M	N
4:1 Slope	15"	2.5'	3.09'	5.59'	4.33'	1.04'
	18"	2.5'	4.12'	6.62'	4.58'	1.04'
	24"	2.5'	6.18'	8.68'	5.08'	1.04'
	30"	2.5'	8.25'	10.75'	5.58'	1.04'
	36"	2.5'	10.31'	12.81'	6.08'	1.04'
	42"	2.5'	12.37'	14.87'	6.58'	1.04'
	48"	2.5'	14.43'	16.93'	7.08'	1.04'
	54"	2.5'	16.49'	18.99'	7.58'	1.04'
	60"	2.5'	18.55'	21.05'	8.08'	1.04'

TOP VIEW-SINGLE PIPE

SECTION

MITERED END SECTION DETAIL

INSTALLATION NOTE:

Turnout pavement shall be required when one of the following conditions exist:

a.) a majority of the current and existing driveway turnouts are paved, or;

b.) the driveway to be served is or will be paved or formed with concrete.

Turnouts shall be paved a minimum of 12' wide or the width of the paved or concrete driveway whichever is greater.

Columbia County Standard Side Drain Installation

BAILEY BISHOP & LANE, INC.
3107 SW BARNETT WAY
P. O. BOX 3717
LAKE CITY, FL 32056-3717
PH. (904) 752-5640
FAX (904) 755-7771

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BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY, FLORIDA

BY: Zimmie C Petty
Zimmie Petty, Chairman

ATTEST:

P. DeWitt Cason
P. DeWitt Cason, Clerk of Court

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BAILEY BISHOP & LANE, INC.
3107 SW BARNETT WAY
P. O. BOX 3717
LAKE CITY, FL 32056-3717
PH. (904) 752-5640
FAX (904) 755-7771

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:

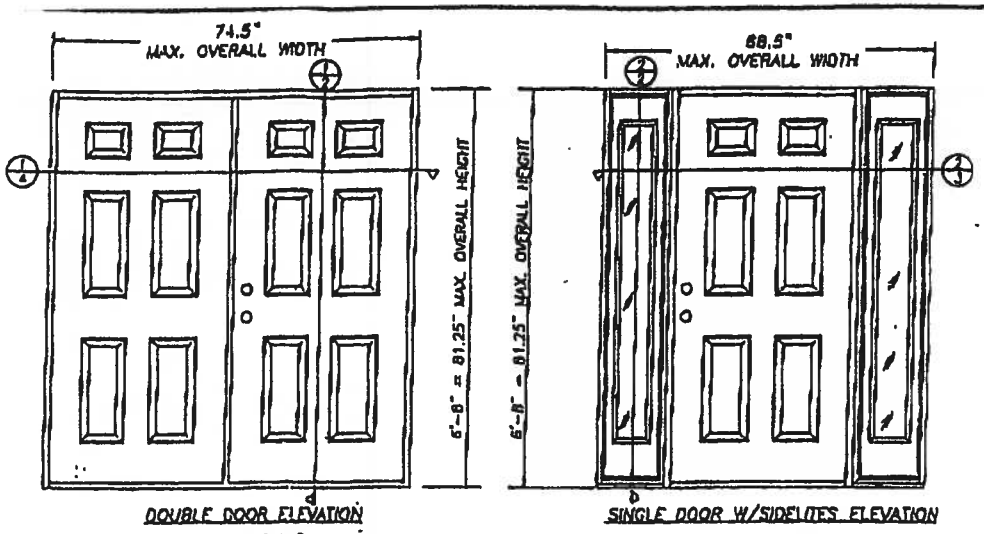
Face sheets: 24 ga. (0.020") minimum thickness, Galvanized steel A-525 commercial quality - AKDQ per ASTM 620 with yield strength Fy(min.)=24,600 psi.

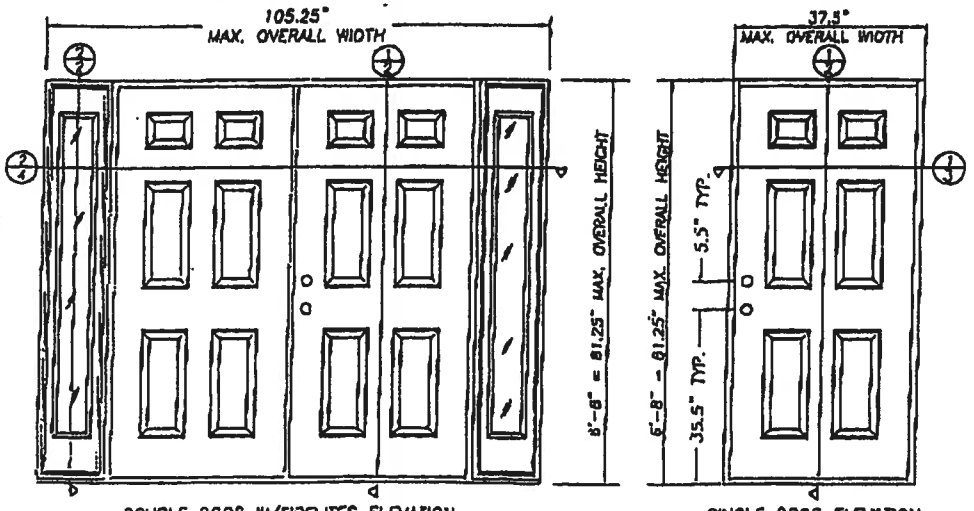
Core design: Expanded polystyrene with 1.0 to 1.25 lbs. density.

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	
	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 16, 2001
BY: Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1003.03

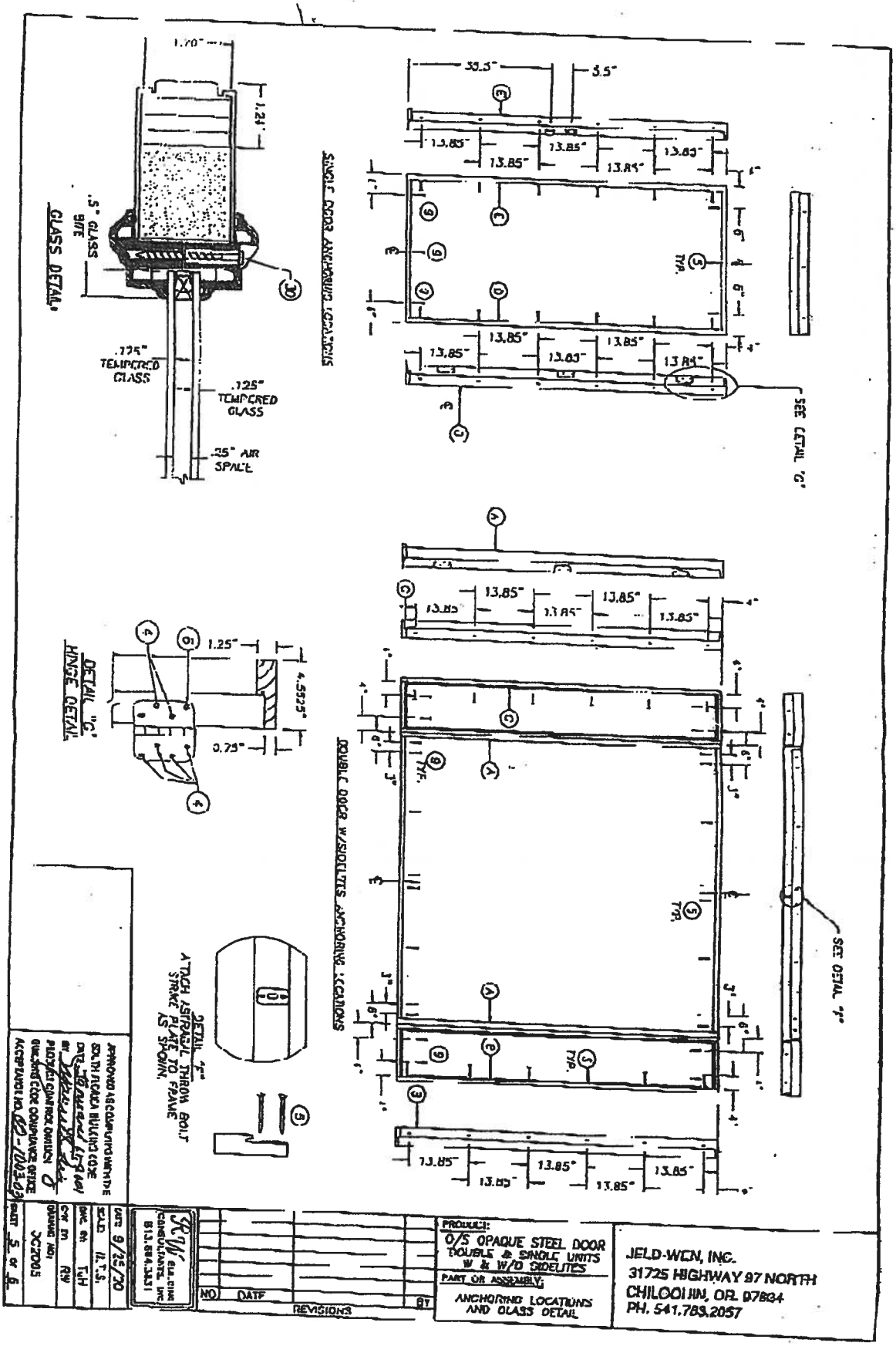
JELD-WEN, INC.
31725 HIGHWAY 97 NORTH
CHILOQUIN, OR. 97624
PH. 541.783.2057

PRODUCT: O/S OPAQUE STEEL DOOR DOUBLE & SINGLE UNITS W & W/O SIDELITES
PART OR ASSEMBLY: ELEVATIONS AND GENERAL NOTES

NO.	DATE	BY	REVISIONS

RW BUILDING CONSULTANTS, INC.
813.684.3831

DWG 9/25/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: DC2005
SHEET 1 OF 6


GLASS DETAIL
.5" GLASS BITE
.175" TEMPERED GLASS
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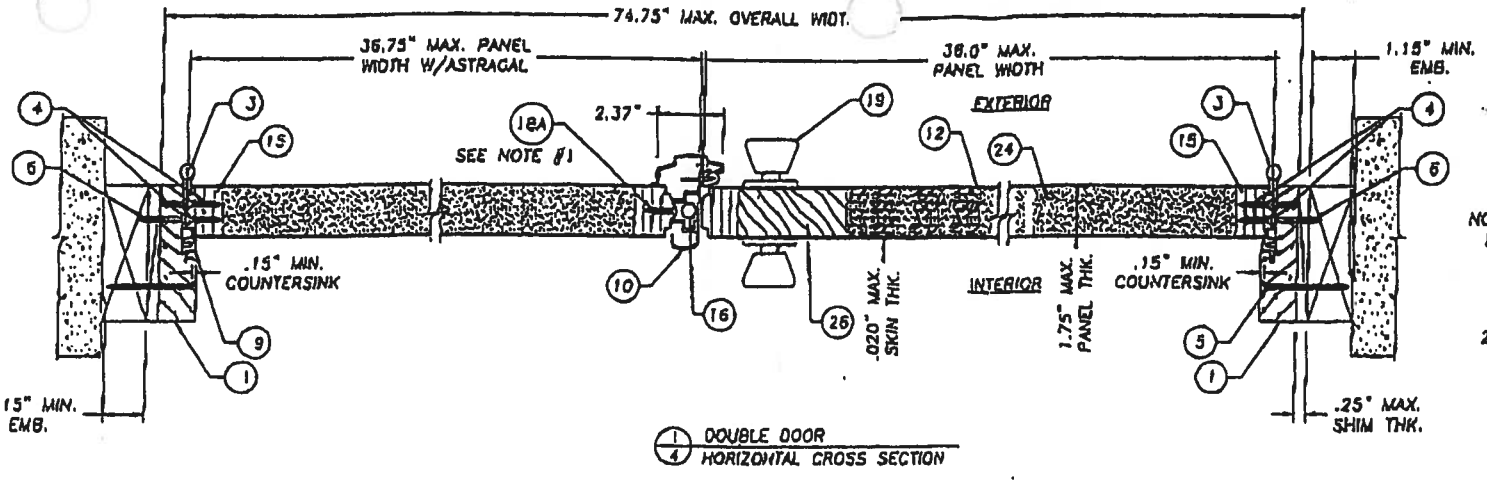
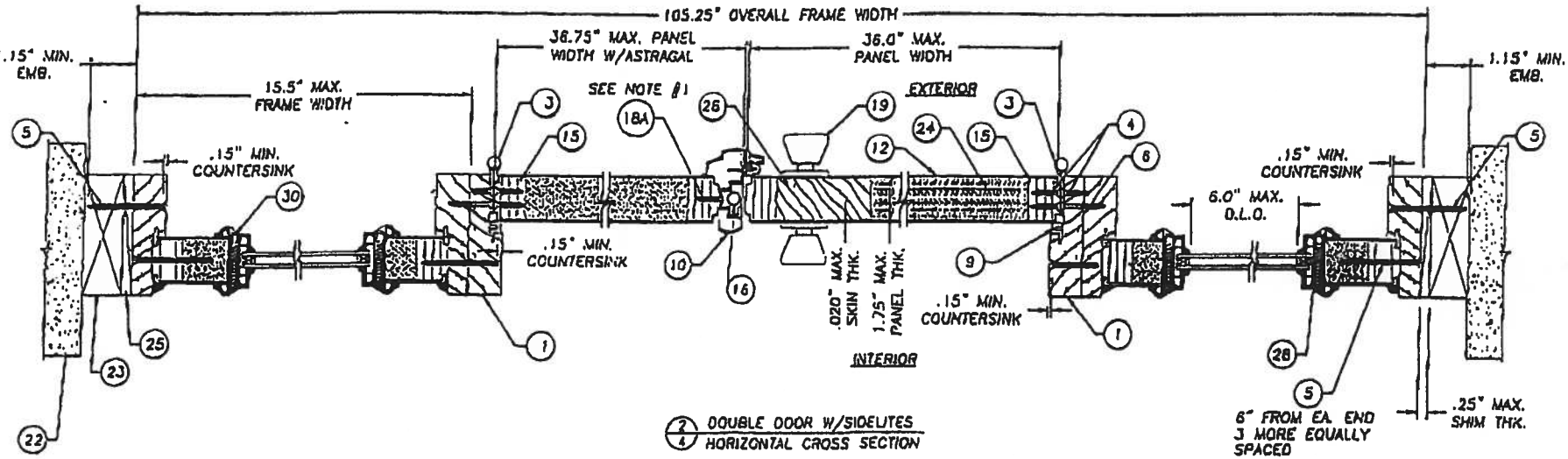
SINGLE DOOR ANCHORING LOCATIONS
SEE DETAIL "B"
DETAIL "C" HINGE DETAIL
DOUBLE DOOR W/SIDELITES ANCHORING LOCATIONS
SEE DETAIL "A"
DETAIL "E" ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO FRAME AS SHOWN.
PRODUCT: O/S OPAQUE STEEL DOOR DOUBLE & SINGLE UNITS W & W/O SIDELITES
PART OR ASSEMBLY: ANCHORING LOCATIONS AND GLASS DETAIL
JELD-WEN, INC.
31725 HIGHWAY 97 NORTH
CHILOQUIN, OR. 97624
PH. 541.783.2057
REVISIONS
DATE 9/25/20
SCALE N.T.S.
DWG BY TWH
CHK BY RW
DRAWING NO. JC2005
SHEET 5 OF 5



1/4 DOUBLE DOOR HORIZONTAL CROSS SECTION

NOTES:
1. SPACING FOR #18A IS AS FOLLOWS: FROM TOP DOWN 1", 2 1/2", 4", 9 1/2", 13", 18" & 26". SPACING FROM THE BOTTOM UP IS THE SAME.
2. ATTACH THE STRIKE PLATE AND THE DEADBOLT PLATE TO THE ASTRAGAL USING A #8 x 2" LG. PHILLIPS FLATHEAD SCREW.



2/4 DOUBLE DOOR W/SIDELITES HORIZONTAL CROSS SECTION

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

NO	DATE	BY

REVISIONS

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 January 11, 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1003.05

DATE: 9/25/00
SCALE: N.T.S.
DWG. BY: TJH
CHK. BY: RW
DRAWING NO.: OC2005
SHEET 4 OF 6

MAY 20 '02 11:15 FROM TEE PEE
ID 13523318472 PAGE.003

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 # GSI-162F

JELD-WEN, INC.
3250 Lakeport 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)

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AAMA 1302.5	Forced Entry	CTL – Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark Johnson P.E. # 15891
ASTM E331	** Water Penetration	CTL – Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark Johnson P.E. # 15891
ASTM E283	Air Infiltration	CTL – Orlando, Florida QTI - Everett, Washington	October 6, 1999 August 13, 1998	CTLA456W 898-280-MH	Ramesh Patel P.E. # 20224 J. Clark 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:

Configuration	Maximum Size	Design Pressure Ratings
Opaque Single	X	Up To 6'0 x 6'8	+48.00 -48.00
Opaque Single with Sidelites	XO, OX, OXO	Up To 5'4 x 6'8	+48.00 -48.00
Glazed Single	X	Up To 6'0 x 6'8	+48.00 -48.00
Glazed Single with Sidelites	XO, OX, OXO	Up To 5'4 x 6'8	+48.00 -48.00

Installation and Anchoring: See reverse side this page

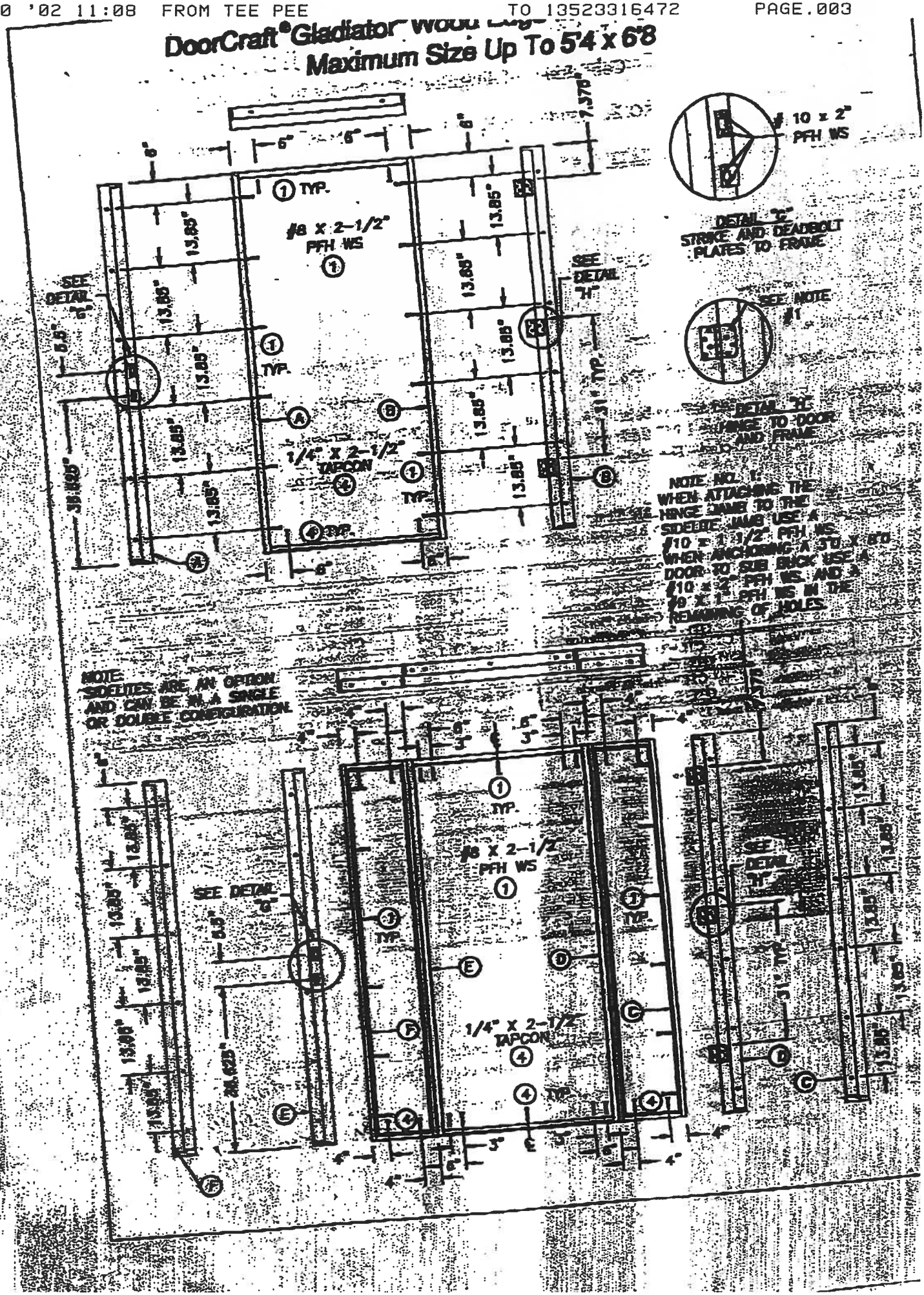
Use

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 Edge
Maximum Size Up To 5'4 x 6'8



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F-12167

#24802

TERMITE TREATMENT CERTIFICATION

Owner: Bauhus Inc.	Permit Number: 24802 —
Lot: 39	Block:
Subdivision: Rolling Meadows	Street Address: 249 Buttercup Dr
City: Lake City	County: Columbia
General Contractor: Bauhus Inc.	Area Treated: wood members
Date: 10/06/06	Time: 10:00 am
Name of applicator James Parker	Applicator ID Number: JE 55238
Product Used: Active Ingredient: % Concentration Bora-Care: Disodium Octaborate Tetrahydrate: 23.0%	Number of gallons used: 10
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:
Denise Wood	5-31-07

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 15-4S-16-03023-539 **Building permit No.** 000024802

Use Classification SFD,UTILITY **Fire:** 22.32

Permit Holder WOLF SCHROM **Waste:** 67.00

Owner of Building BAUHUS INC/WOLF SCHROM **Total:** 89.32

Location: 349 SW BUTTERCUP DR, LAKE CITY, FL

Date: 06/01/2007

Randy Jones by GT **Building Inspector**

POST IN A CONSPICUOUS PLACE
(Business Places Only)

24802

BRITT SURVEYING

830 West Duval Street • Lake City, FL 32055
Phone (386) 752-7163 • Fax (386) 752-5573

Land Surveyors and Mappers

08/28/06

L-17608

To Whom It May Concern:

C/o: Bauhaus, Inc.

Re: Lot 39 Rolling Meadows (#000024802)

The elevation of the lowest horizontal structural member is found to be 107.34 feet, and according to the plans the floor will be +1.08 to the finished floor elevation. The minimum finished floor elevation is 108.00 feet according to the plat of record. The highest adjacent grade is 107.3 feet and the lowest adjacent grade is 104.8 feet. The elevations shown hereon are based on NGVD 29 datum.

L. Scott Britt
PLS #5757