Notice of Treatment 12652

Applicator: **Florida Pest Control & Chemical Co. (www.flapest .com)**
Address: 536 SE Baya Ave
City Lake City Phone 752-1703

Site Location: Subdivision Rainbow Inc
Lot # 1 Block# Permit # 24266
Address

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

Type treatment: ❑ Soil ❑ Wood

Area Treated	**Square feet**	**Linear feet**	**Gallons Applied**
1268	132	132	
Building	1268		

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 ________.

8-17-07	9:20	F 244
Date	Time	Print Technician's Name

Remarks: ______________________________

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 07-4S-17-08106-236 **Building permit No.** 000024266

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

Permit Holder BAUHUS, INC/WOLF SCHROM **Waste:** 16.75

Owner of Building VERONICA BAIRD **Total:** 23.17

Location: 528 SW DEANNA RD, LAKE CITY, FL

Date: 09/05/2008

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

24266

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

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

12657

TERMITE TREATMENT CERTIFICATION

Owner: Mr Wolf Bauhus	Permit Number: 24266
Lot:	Block:
Subdivision:	Street Address: 528 Deanna Ter
City: Lake City	County: Columbia
General Contractor: Bauhus Inc	Area Treated: 1268 sf
Date: 8-13-07	Time: 4:00
Name of applicator Don Lee	Applicator ID Number: JE 146559
Product Used: Active Ingredient: % Concentration Bora-Care: Disodium Octaborate Tetrahydrate: 23.0%	Number of gallons used: 4
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:
Kim Coleman	9-4-08

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

Reference to: Build permit application Number: 0601-82

Wolf Schrom Owner Veronica Baird Lot 6 of Holly Brook Subdivision

On the date of February 6, 2006 application 0601-82 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 0601-82 when making reference to this application.

1. Please submit a recorded (with the Columbia County Clerk Office) a notice of commencement before any inspections can be preformed by the Columbia County Building Department.
2. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system. ✓
3. Please verify that the egress windows on the second floor will comply with the FBC-2004 Section R310.1.1 Minimum opening area: All emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (0.530 m2). ✓

R310.1.2: Minimum opening height. The minimum net clear opening height shall be 24 inches (610 mm): R310.1.3 Minimum opening width. The minimum net clear opening width shall be 20 inches (508 mm).

4. The first floor window in the bath room shall comply with the FRC-2004 section R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface.
5. Please verify that the stair tread will have a nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 10 inches (279 mm).

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

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 2

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. See NOTE 3 + 4
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**

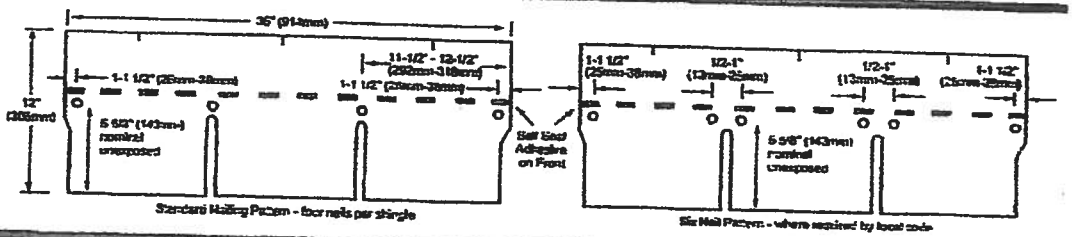
GAF MATERIALS CORPORATION

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.

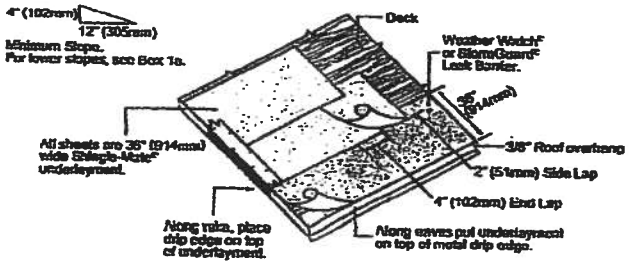
  For maximum wind resistance along rakes, cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.

  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:** 5" (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 FHA, 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

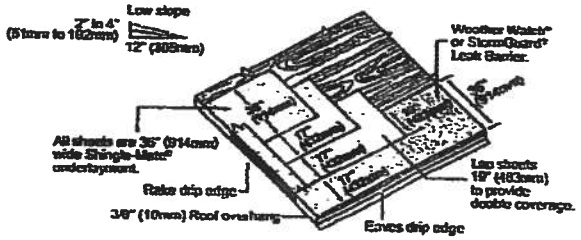
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

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.



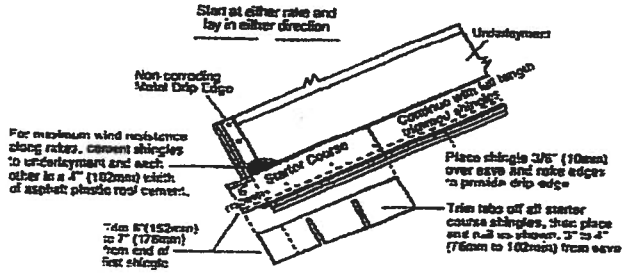
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

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.



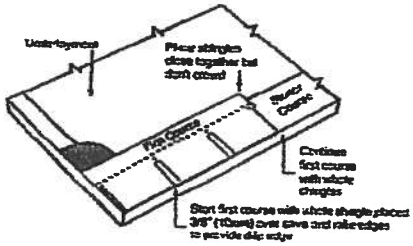
2 Starter Course

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



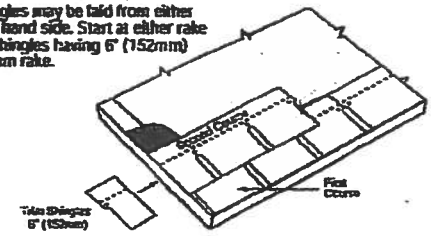
3 First Course

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.

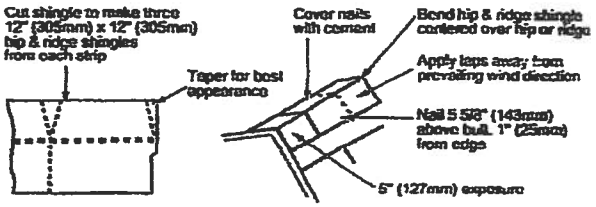


5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied self-sealing dots on lower courses are designed to seal down the shingle tabs in an upper course.

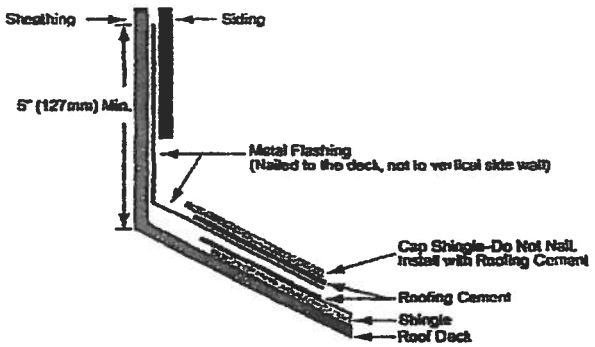
NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.



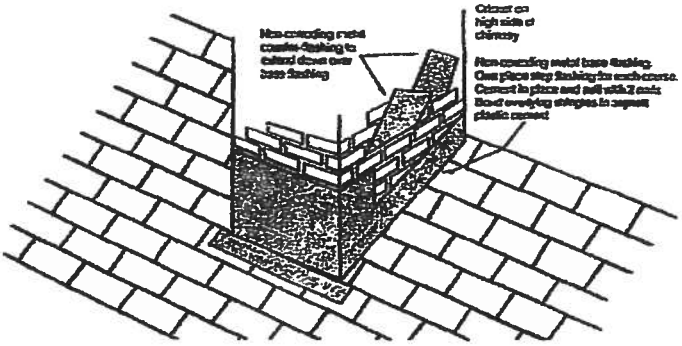
apply as shown. Position laps away from prevailing wind direction.



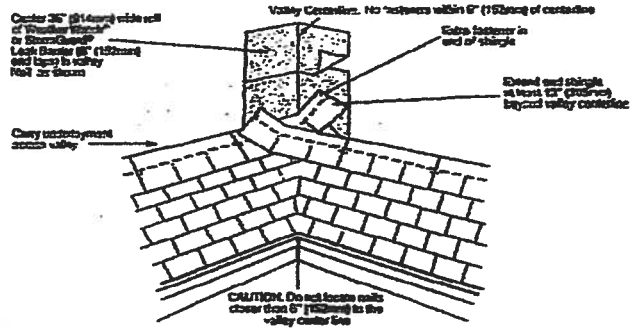
6 Wall Flashing (Sloped Roof to Vertical Wall)



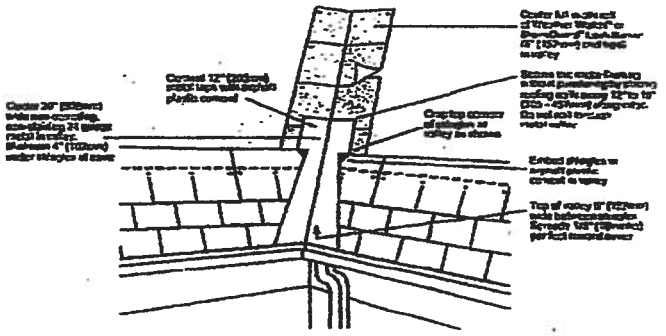
7 Chimney Flashing



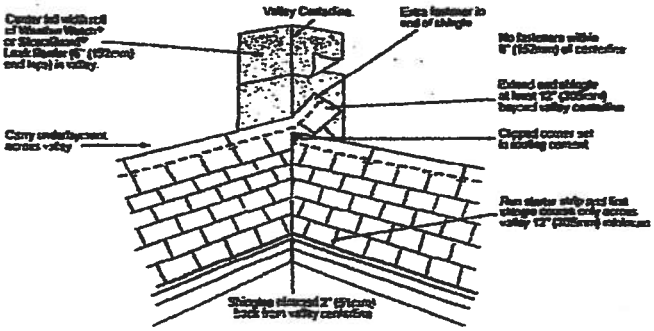
8 Valley Construction - Closed or Woven Valley



9 Valley Construction–Open Cut



10 Valley Construction–Closed Cut



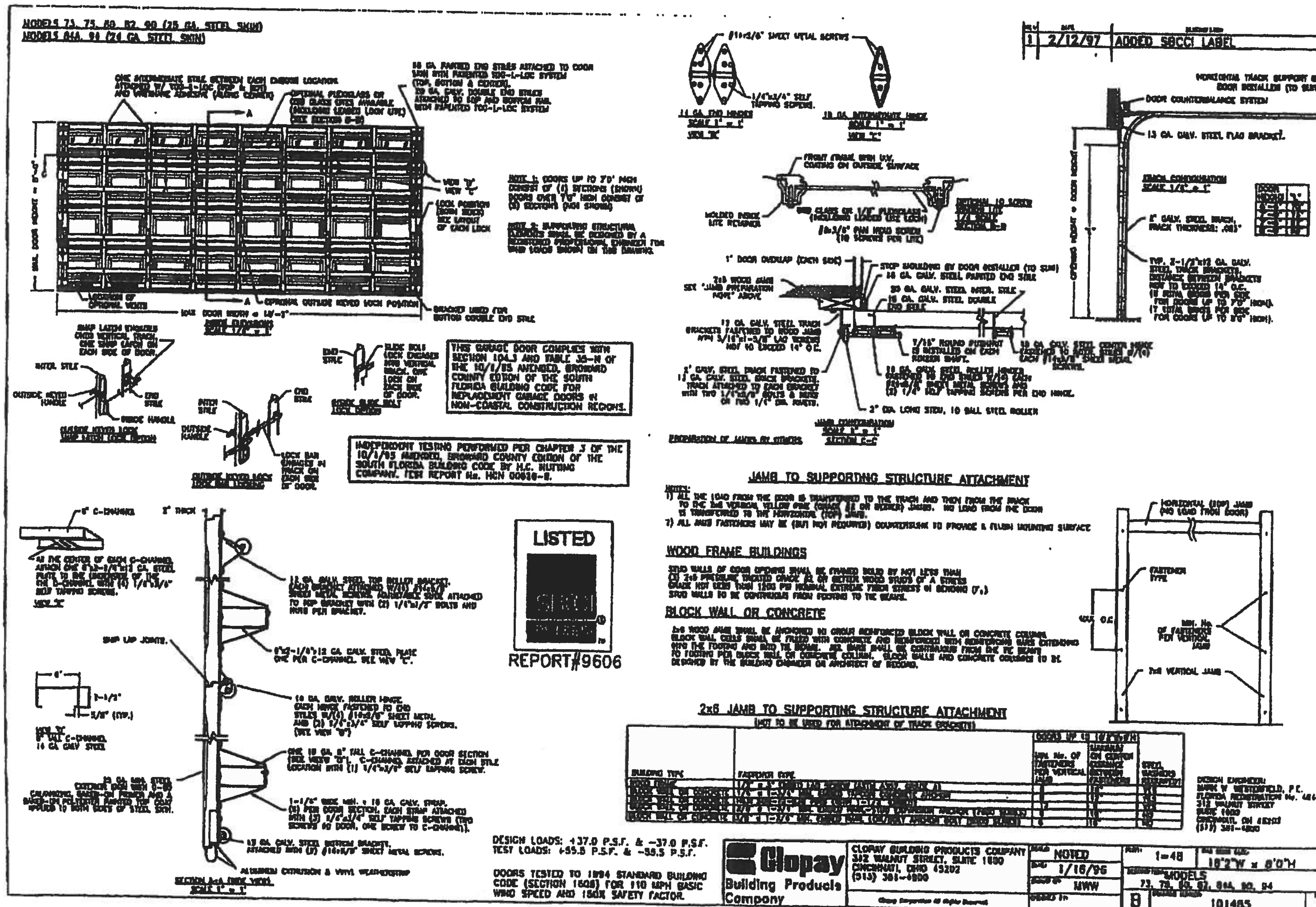
Precautionary Notes

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

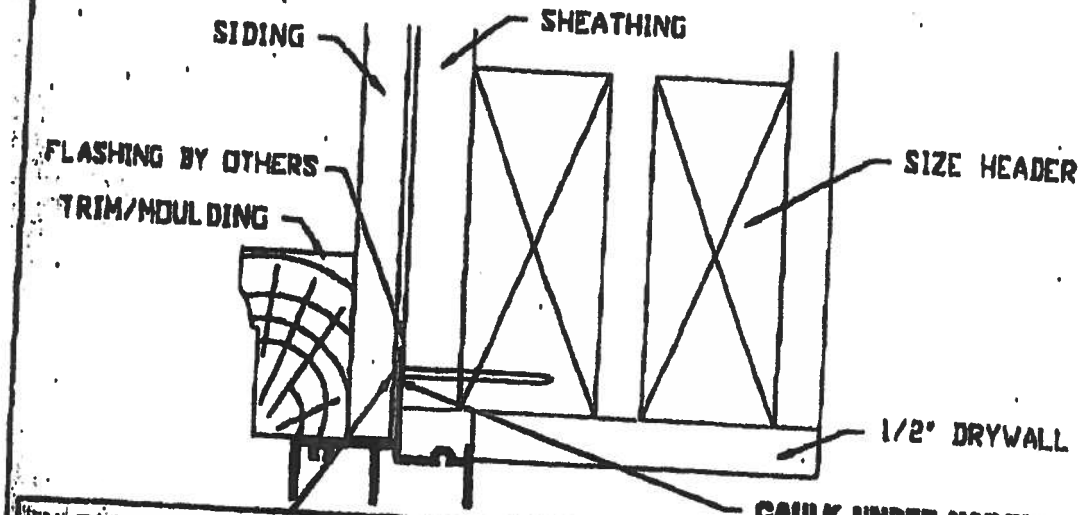
If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles; replace with new; and just before applying the new roofing, sweep the surface clean of all loose debris. Since any irregularities may show through the new shingles, be sure the underlying shingles 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)
2/12/97 ADDED SBCCI LABEL
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. TEST REPORT No. HCN 00838-8.
LISTED
REPORT#9606
JAMB TO SUPPORTING STRUCTURE ATTACHMENT
WOOD FRAME BUILDINGS
BLOCK WALL OR CONCRETE
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
16'2"W x 8'0"H
MODELS
73, 75, 80, 82, 84A, 90, 94
B
101465

WOOD CONSTRUCTION INSTALLATION
CONVENTIONAL NAIL-FIN SINGLE HUNG

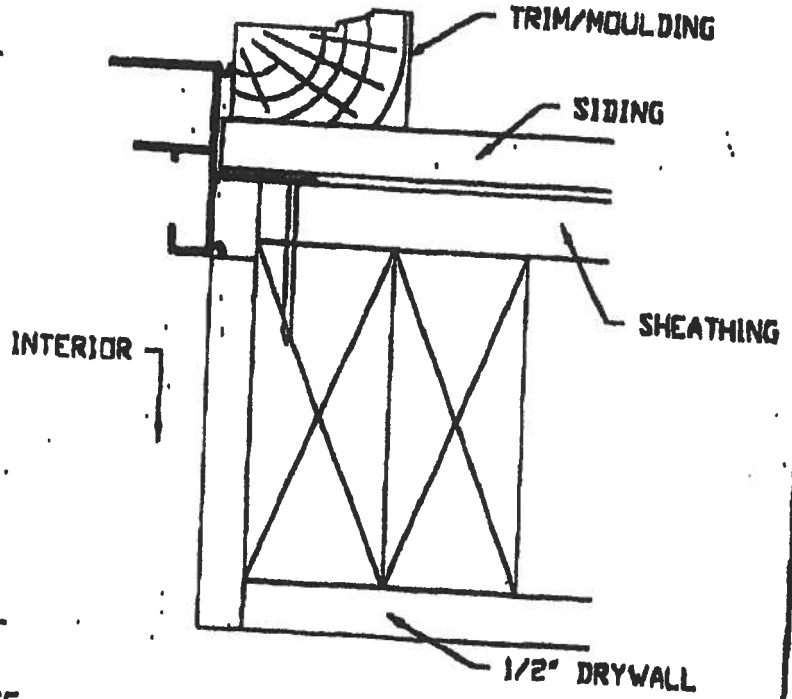
740A
740C

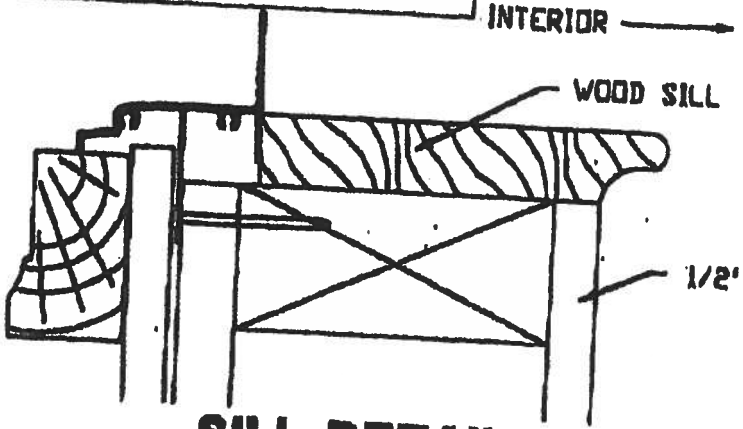
HEAD DETAIL



IN EACH DIRECTION FROM ALL CORNERS THERE MUST BE A FASTENER WITHIN 10 INCHES, BUT NO CLOSER THAN 3 INCHES, TO PREVENT FRAME DISTORTION OR FRACTURE OF JOINT SEALS. SECURE THE FULL PERIMETER WITH EQUIVALENT OF #8 FASTENERS OR A #8 X 1 1/4" SCREW, ON A MAXIMUM OF 16 INCH CENTERS.

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.

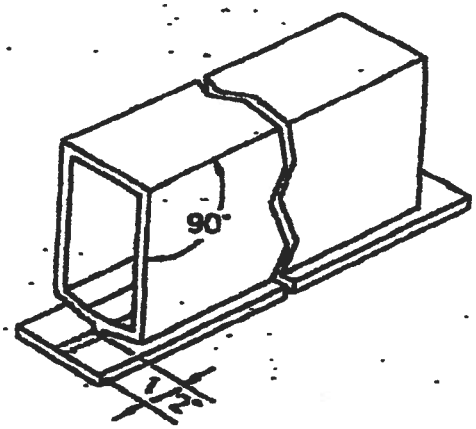
Step 2. Place windows and mullions together as shown below.

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

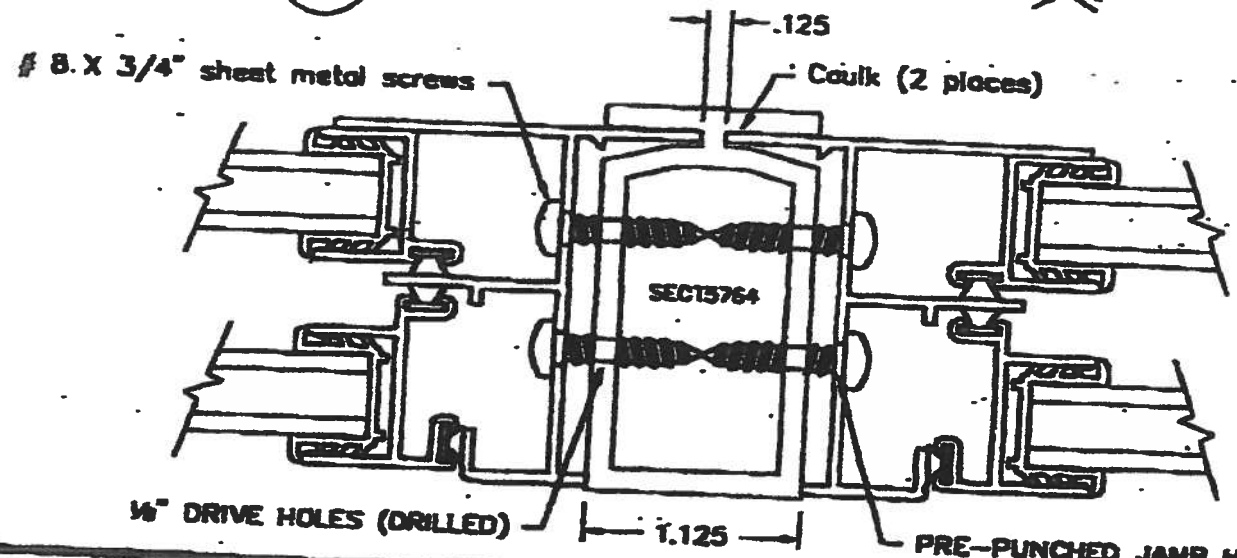
Step 4. Attach windows to mullion using # 8 x 3/4" sheet metal screws (not included) through drilled holes as shown below. To avoid jamb distorsion, do not overtighten screws.

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

V83 SERIES V83 MULL

770/774/780/784 FLORIDA FLANGE PRODUCTS

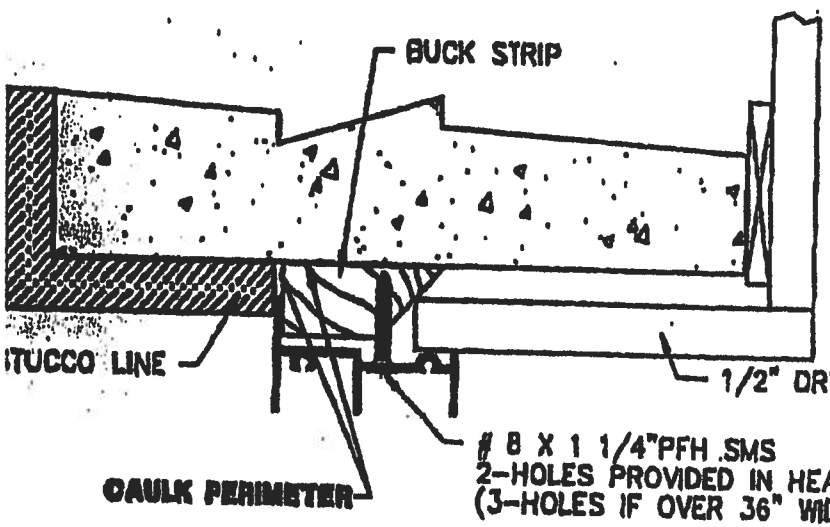
Tony C	01/21/99
1 : 1	1 OF 1

MULLV83A

MASONARY CONSTRUCTION INSTALLATION
FLORIDA FLANGE SINGLE HUNG

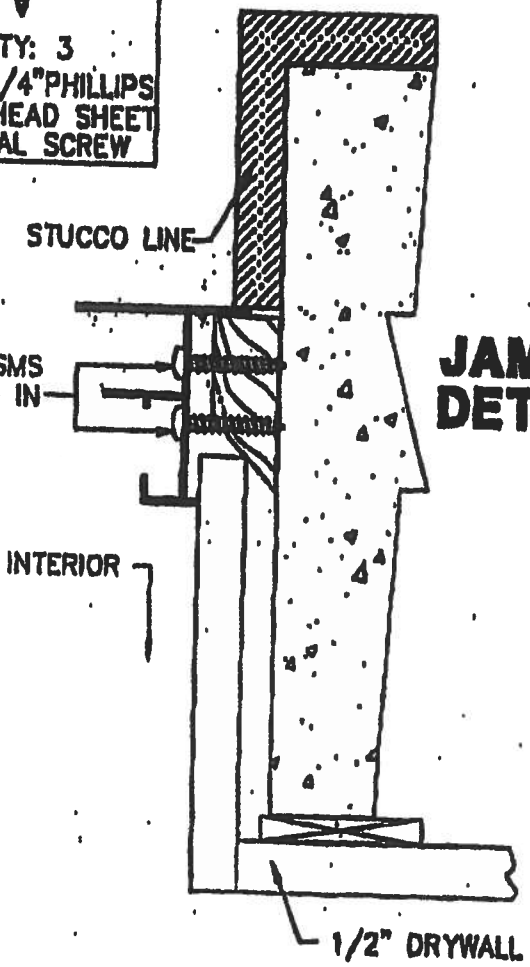
BetterBilt
DOORS AND WINDOWS

HEAD DETAIL

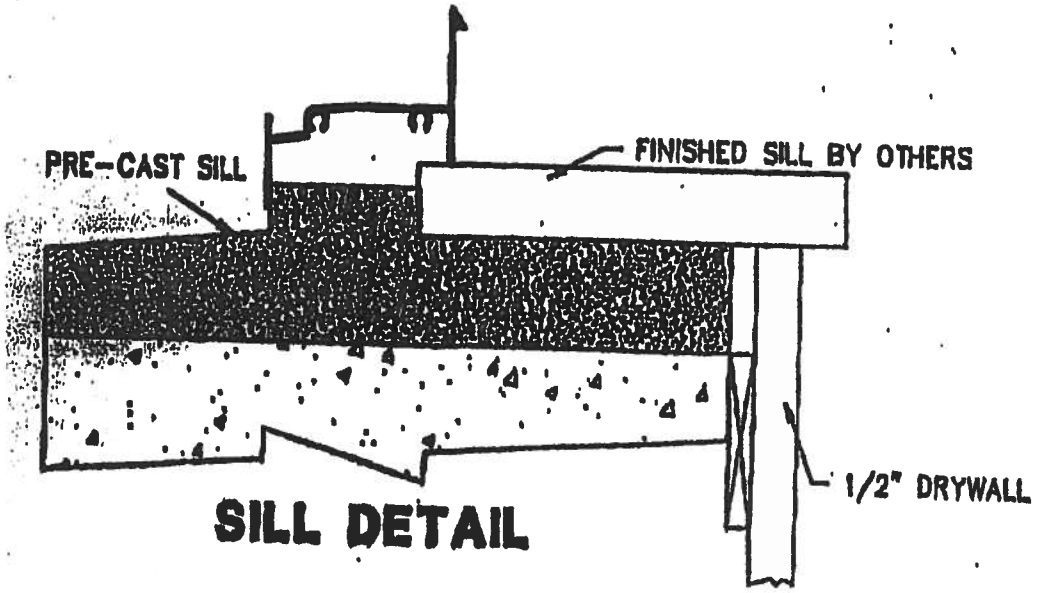


INCLUDED WITH WINDOW INSTALLATION SCREW PACK 99-08-919	
	
QTY: 6 #8x1"PHILLIPS PAN HEAD SHEET METAL SCREW	QTY: 3 #8X1 1/4"PHILLIPS FLAT HEAD SHEET METAL SCREW

JAMB DETAIL



SILL DETAIL



NOTE:

FASTENER TYPE AND LOCATION MAY VARY DEPENDING ON LOCAL CODES.

Jeld-Wen, Inc.

ACCEPTANCE No.: 00-1003.03

APPROVED : JAN 1 1 20

EXPIRES : April 14, 200

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, s and the following statement: "Miami-Dade County Product Control Approved", or as specifically 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, includi the correct installation of the product;
   d) The engineer who originally prepared, signed and sealed the required documentation initially 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 been requested (through the filing of a revision application with appropriate fee) and granted by this offic

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 other purpose.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followe 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, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at 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 of Acceptance.

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

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

END OF THIS ACCEPTANCE

Jeld-Wen, Inc.

ACCEPTANCE No.: 00-1003.03

APPROVED : JAN 1 1 2001

EXPIRES : April 14, 2003

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. T approves a residential insulated steel door, as described in Section 2 of this Notice of Acceptan designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-D County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, 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 Ste Door w/Sidelites - Impact Resistant Door only and its components shall be constructed in stri compliance with the following documents: Drawing No DC-2005, titled "O/S Opaque Steel Do Double & Single Units w & w/o Sidelites" Sheets 1 through 6 of 6 dated 09/25/00, bearing t Miami-Dade County Product Control approval stamp with the Notice of Acceptance number ar approval date by the Miami-Dade County Product Control Division. These documents sha 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, as shown in approved drawings. Single door units shall include all components described in the active 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 <u>will not require</u> a hurricane protection system. Sidelites <u>will require</u> 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, P.E. Product Control Examiner
Product Control Division

MIAMI-DADE COUNTY, FLO
METRO-DADE FLAGLER BUIL

BUILDING CODE COMPLIANCE OF
METRO-DADE FLAGLER BUIL
140 WEST FLAGLER STREET, SUITE
MIAMI, FLORIDA 33130
(305) 375-2901 FAX (305) 375

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

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

PRODUCT CONTROL DIVIS
(305) 375-2902 FAX (305) 372

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/ Sidelites Impact
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types Construction, and completely described herein, has been recommended for acceptance by the Miami-Dad 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 secure t product or material at any time from a jobsite or manufacturer's plant for quality control testing. If th product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend t use of such product or material immediately. BCCO reserves the right to revoke this approval, if it determined by BCCO that this product or material fails to meet the requirements of the South Floric 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 Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set 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. PEEKS
EXPIRES
PENNSYLVANIA

New
R-45 Rating

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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 740/744 [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. Hall, Technician

MAH:mw

ALLEN H. REEVES
CERTIFICATE
OREGON
STATE OF

Allen H. R.

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:

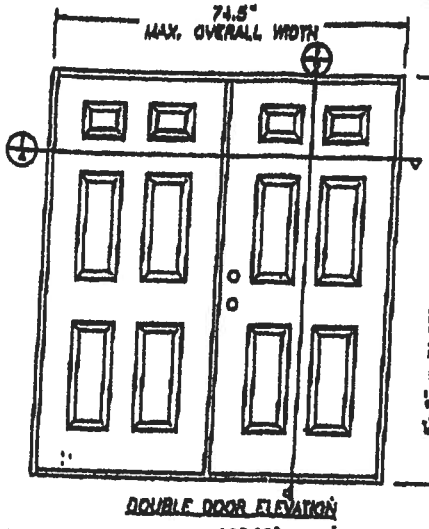
Face sheets: 24 ga. (0.020") minimum thickness. Galvanized steel A-525 commercial quality — AK00 per ASTM d20 with yield strength Fy(min.)=24,600 psi.

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

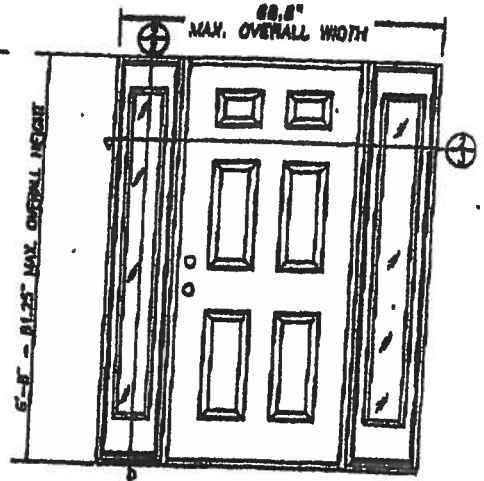
Construction: Steel face sheets glued to expanded polystyrene (EPS), with wood rails and laminated veneered lumber stiles and a wood lock block reinforcement.

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

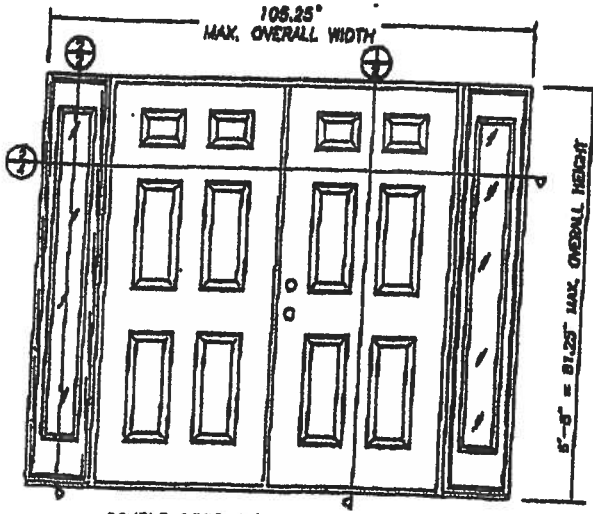
TABLE OF CONTENTS



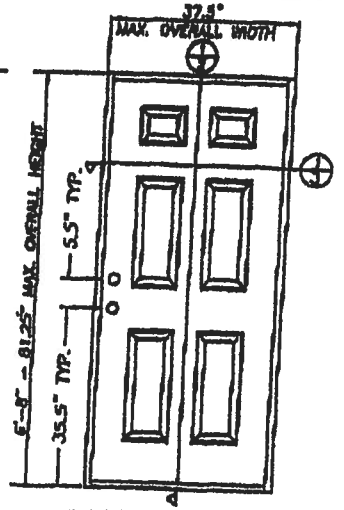
DOUBLE DOOR ELEVATION



SINGLE DOOR W/SIDELITES ELEVATION



DOUBLE DOOR W/SIDELITES ELEVATION



SINGLE DOOR ELEVATION

COLONIAL 8 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

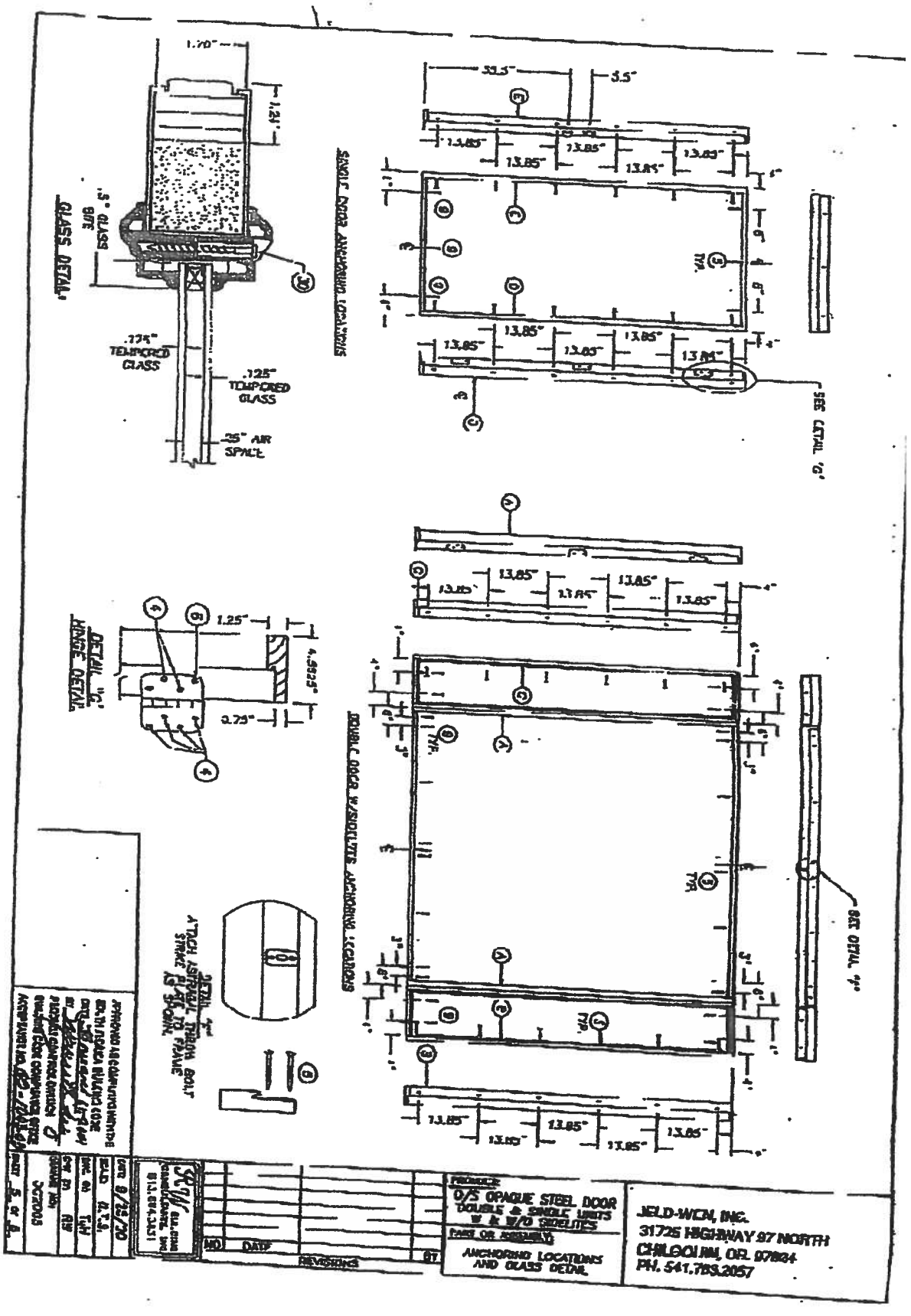
JELD-WEN, INC.
31725 HIGHWAY 97 NORTH
CHILOQUIN, OR. 97624
PH. 541.783.2057

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

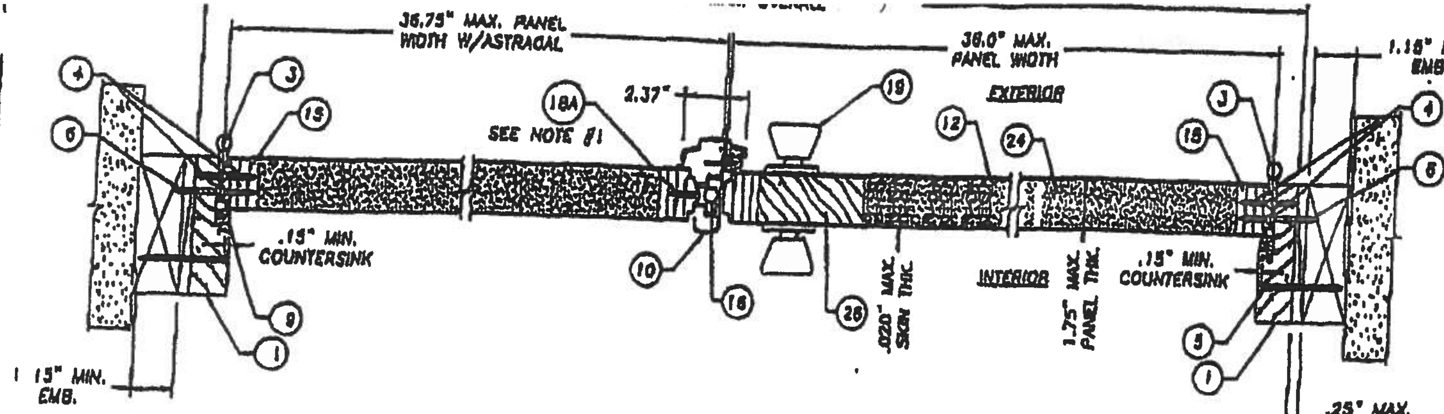
NO.	DATE	REVISIONS	BY

RW BUILDING CONSULTANTS, INC.
813.684.3831

DATE: 5/25/00
SCALE: N.T.S.
DWN. BY: TJH
CHK. BY: RW
DRAWING NO.: DC2005
SHEET 1 OF 6

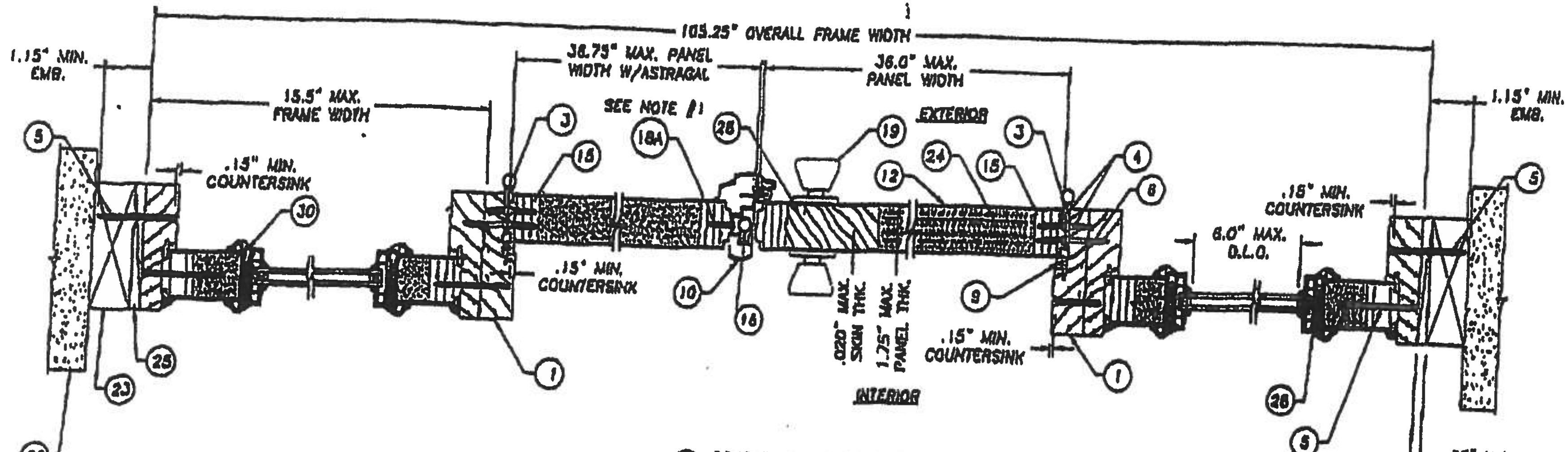


** TOTAL PAGE.010 **



1/4 DOUBLE DOOR HORIZONTAL CROSS SECTION

NOTES:
1. SPACING FOR #18A IS AS FOLLOWS: FROM TOP DOWN 1", 2 1/2", 4", 8 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.
3?725 HIGHWAY 97 NORTH
?. CHILOQUIN, 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 Brunari 11, 2001 BY [signature] 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

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 898-289-ME	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 898-289-ME	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 898-289-ME	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 898-289-ME	Ramesh Patel P.E. # 20224 J. Clark Johnson P.E. # 15891

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

Design Pressure Ratings:

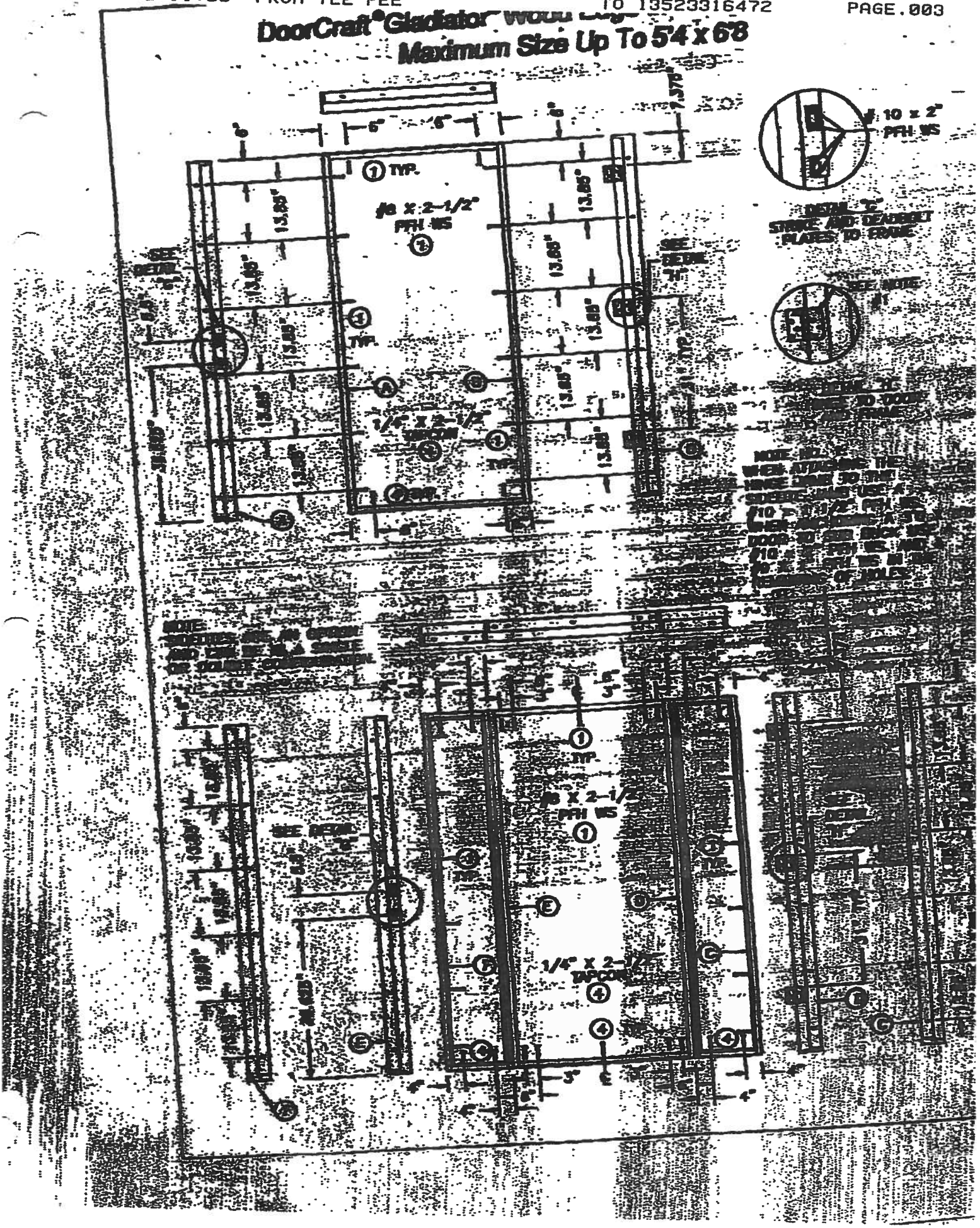
Installation and Anchoring: See reverse side this page

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 Hagey


DoorCraft® Gladiator
Maximum Size Up To 54 x 68
TYP.
#8 X 2-1/2" PFH WS
1/4" X 2-1/2" TAPCON
SEE DETAIL
DETAIL "E"
STRIKE AND DEADBOLT PLATES TO ERASE
SEE NOTE
TYP.

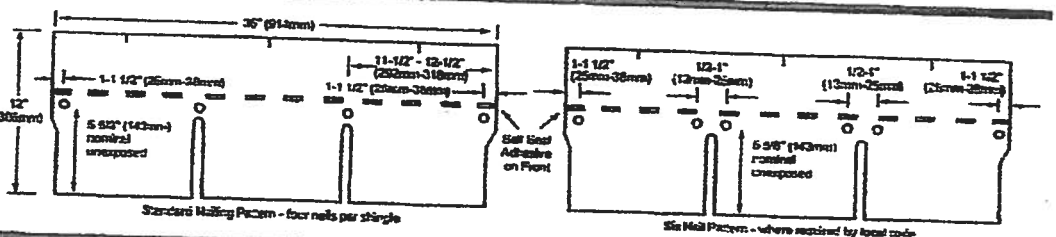
GAF MATERIALS CORPORATION

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 8" (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.

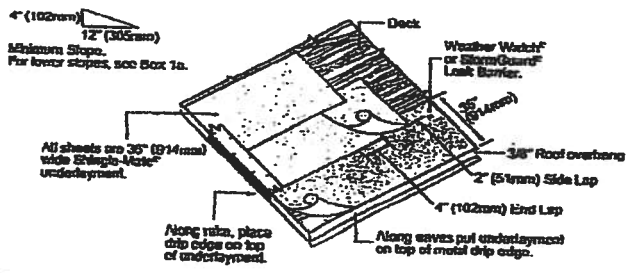
NOTE: The film strips on the back of each shingle are to prevent sticking together of the shingles while in the bundle. Their removal is NOT required during application.

- **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 FHLA., 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

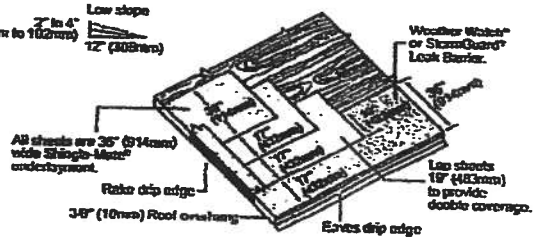
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

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.



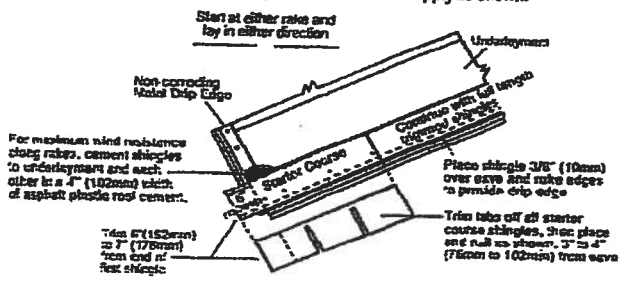
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

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.



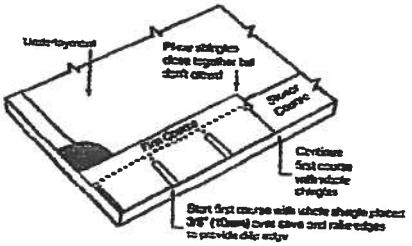
2 Starter Course

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



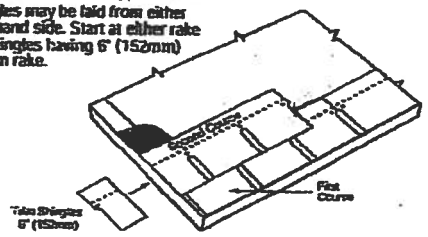
3 First Course

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.

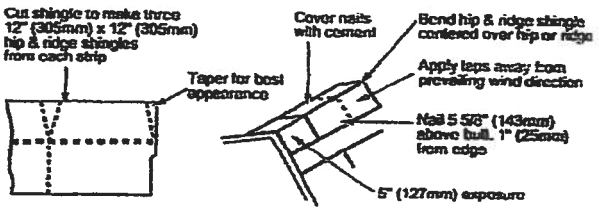


5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied self-sealing dots on lower courses are designed to seal down the shingle tabs in an upper course.

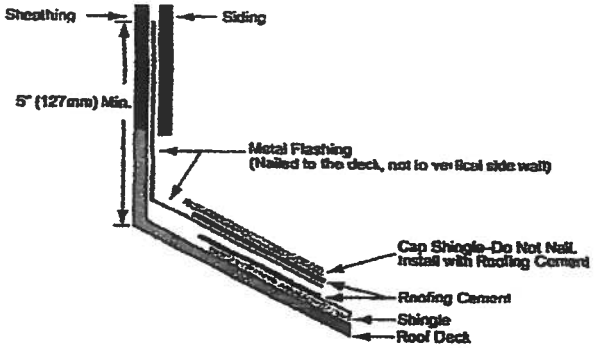
NOTE: Shingles may be laid from either left or right hand side. Start at either rake edge with shingles having 6" (152mm) trimmed from rake.



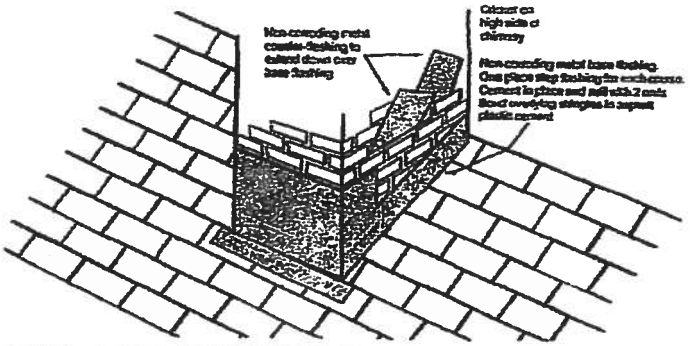
apply as shown. Position laps away from prevailing wind direction.



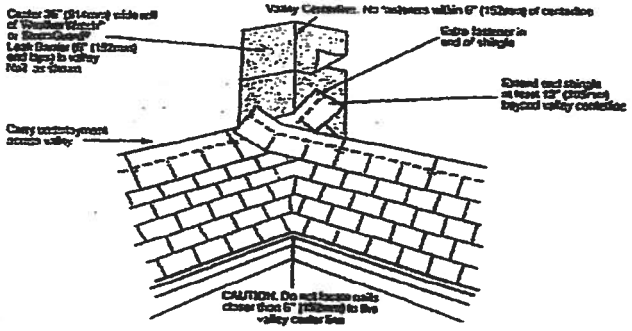
6 Wall Flashing (Sloped Roof to Vertical Wall)



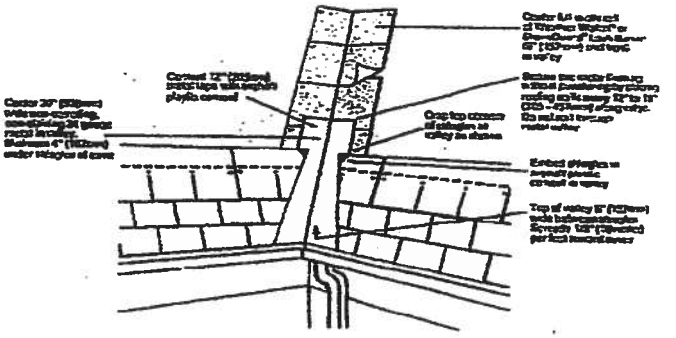
7 Chimney Flashing



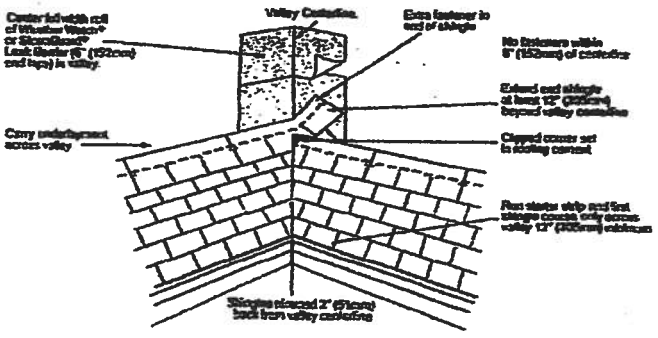
8 Valley Construction - Closed or Woven Valley



9 Valley Construction–Open Cut



10 Valley Construction–Closed Cut



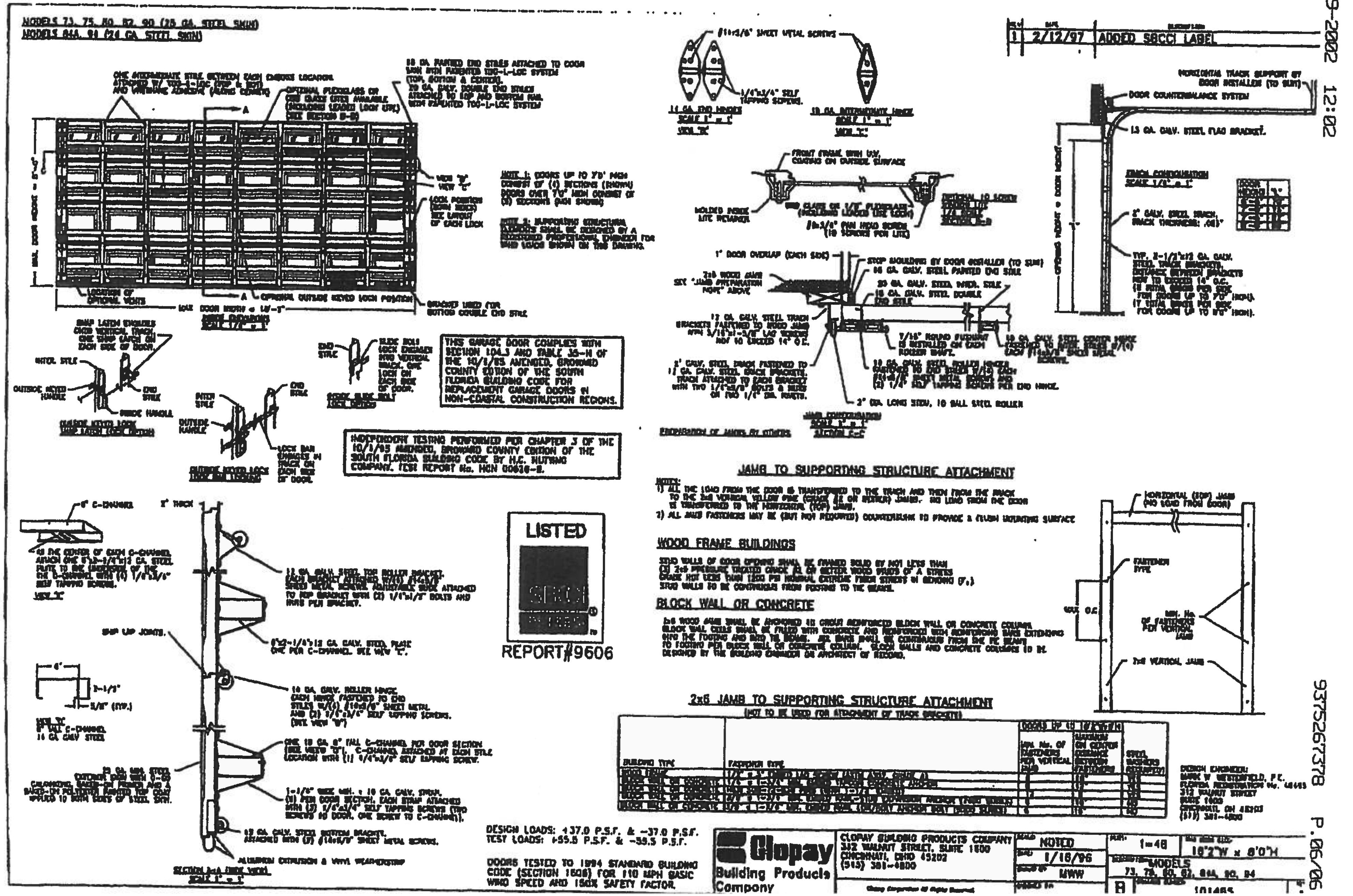
Precautionary Notes

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.

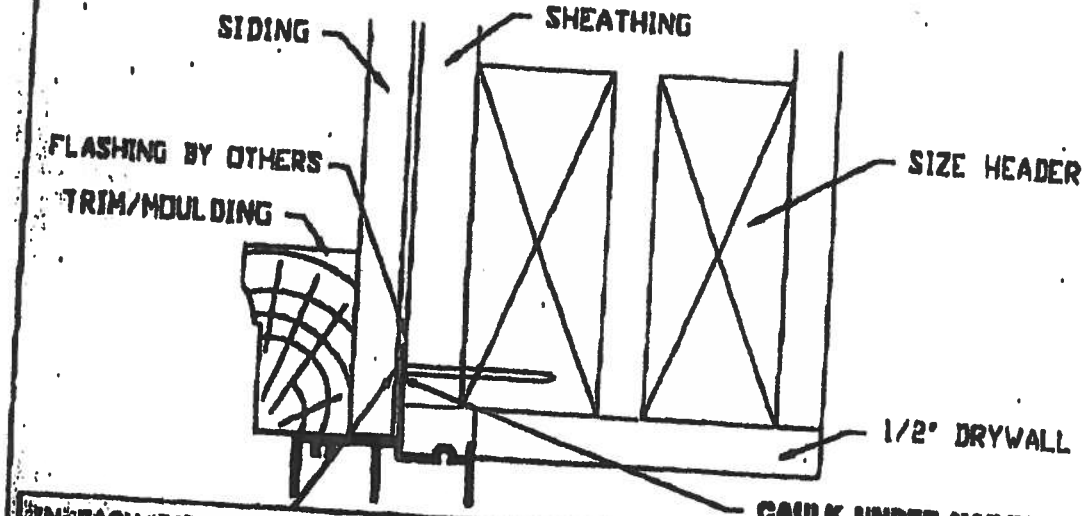

MODELS 73, 75, 80, 82, 90 (25 GA. STEEL SKIN)
MODELS 84A, 94 (24 GA. STEEL SKIN)
1 2/12/97 ADDED SBCCI LABEL
DOOR COUNTERBALANCE SYSTEM
13 GA. GALV. STEEL FLAG BRACKET.
THIS GARAGE DOOR COMPLIES WITH SECTION 104.3 AND TABLE 35-H OF THE 10/1/95 AMENDED, BROWARD COUNTY EDITION OF THE SOUTH FLORIDA BUILDING CODE FOR REPLACEMENT GARAGE DOORS IN NON-COASTAL CONSTRUCTION REGIONS.
INDEPENDENT TESTING PERFORMED PER CHAPTER 3 OF THE 10/1/95 AMENDED, BROWARD COUNTY EDITION OF THE SOUTH FLORIDA BUILDING CODE BY H.C. NUTTING COMPANY. TEST REPORT No. HCN 00636-8.
JAMB TO SUPPORTING STRUCTURE ATTACHMENT
WOOD FRAME BUILDINGS
BLOCK WALL OR CONCRETE
LISTED
SBCCI
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
1/18/96
MWW
1-48
16'2"W x 8'0"H
MODELS 73, 75, 80, 82, 84A, 90, 94
101465

WOOD CONSTRUCTION INSTALLATION
CONVENTIONAL NAIL-FIN SINGLE HUNG

740A
740C

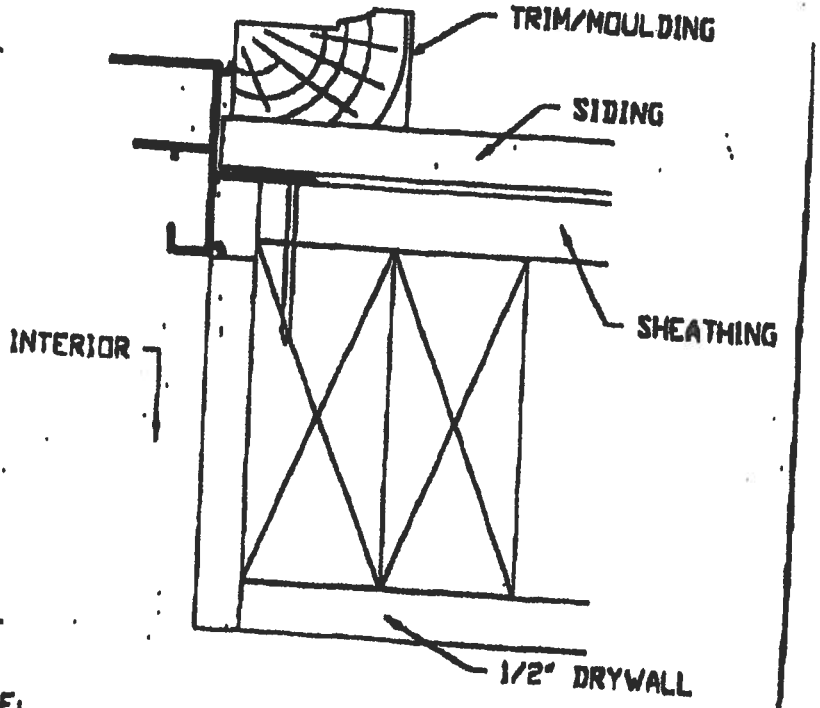
Better-Bilt
DOORS AND WINDOWS

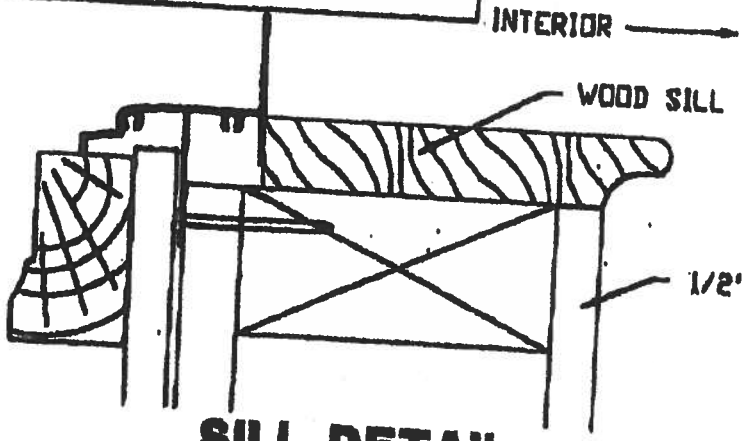
HEAD DETAIL



IN EACH DIRECTION FROM ALL CORNERS THERE MUST BE A FASTENER WITHIN 10 INCHES, BUT NO LESS THAN 3 INCHES, TO PREVENT FRAME DISTORTION OR FRACTURE OF JOINT SEALS. SECURE THE FULL PERIMETER WITH EQUIVALENT OF #8 FASTENERS OR A #8 X 1 1/4" SCREW, ON A MAXIMUM OF 16 INCH CENTERS.

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.

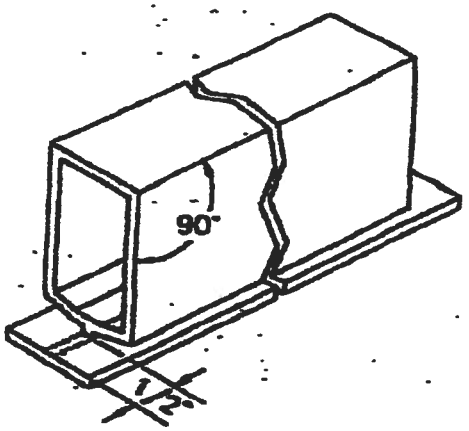
Step 2. Place windows and mullions together as shown below.

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

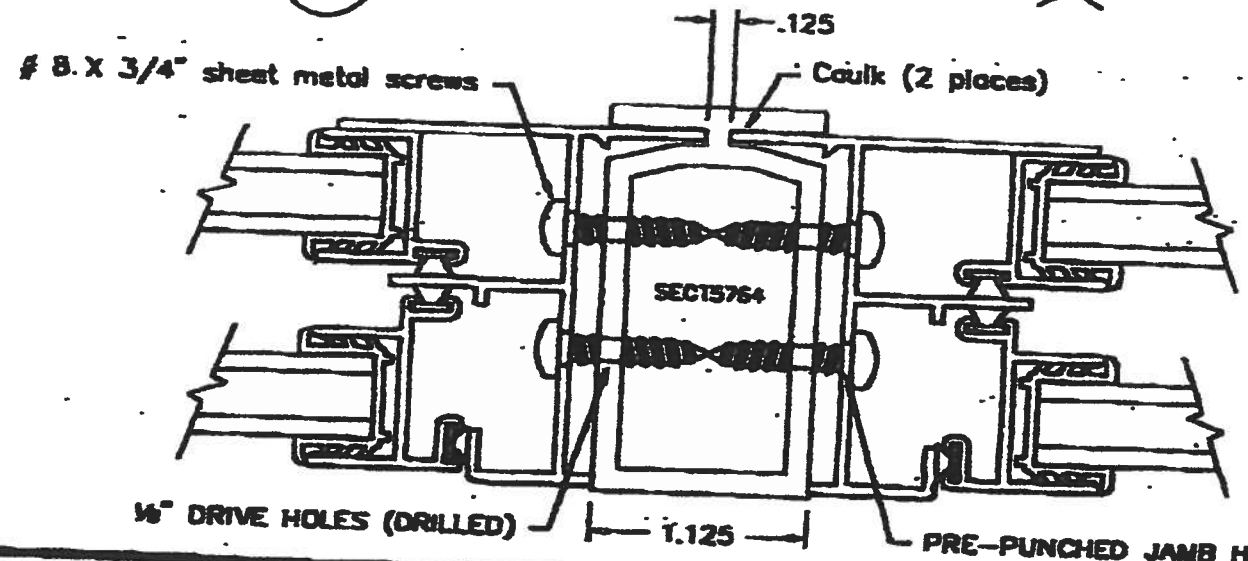
Step 4. Attach windows to mullion using # 8 x 3/4" sheet metal screws (not included) through drilled holes as shown below. To avoid jamb distorsion, do not overtighten screws.

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".

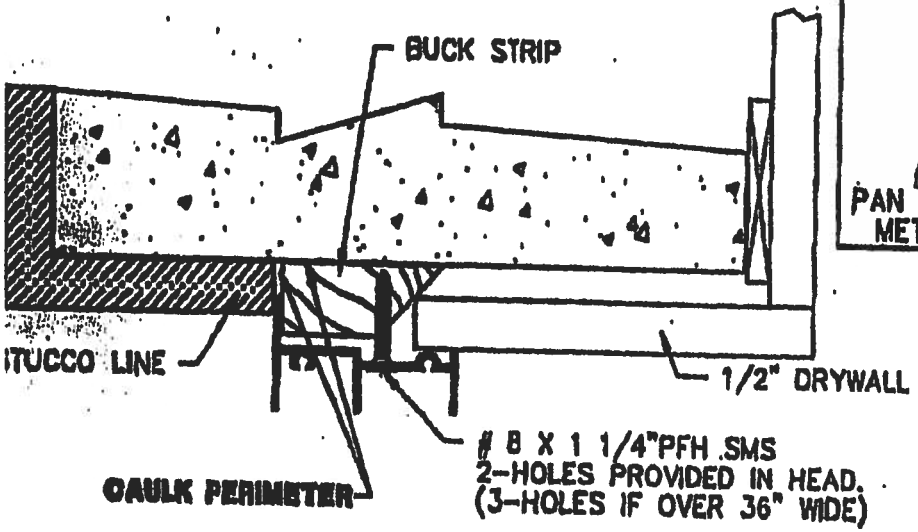


704 12th AVE. SIDNEY, TN 37167 (800) 545-5413	INSTRUCTION SHEET	Tony C 01/21/99
DESCRIPTION INITIAL RELEASE	TWIN OR TRIPLE [illegible] SERIES V83 MULL	
	770/774/780/784 FLORIDA FLANGE PRODUCTS	1 : 1 1 OF 1
		MULLV83A

MASONARY CONSTRUCTION INSTALLATION
FLORIDA FLANGE SINGLE HUNG

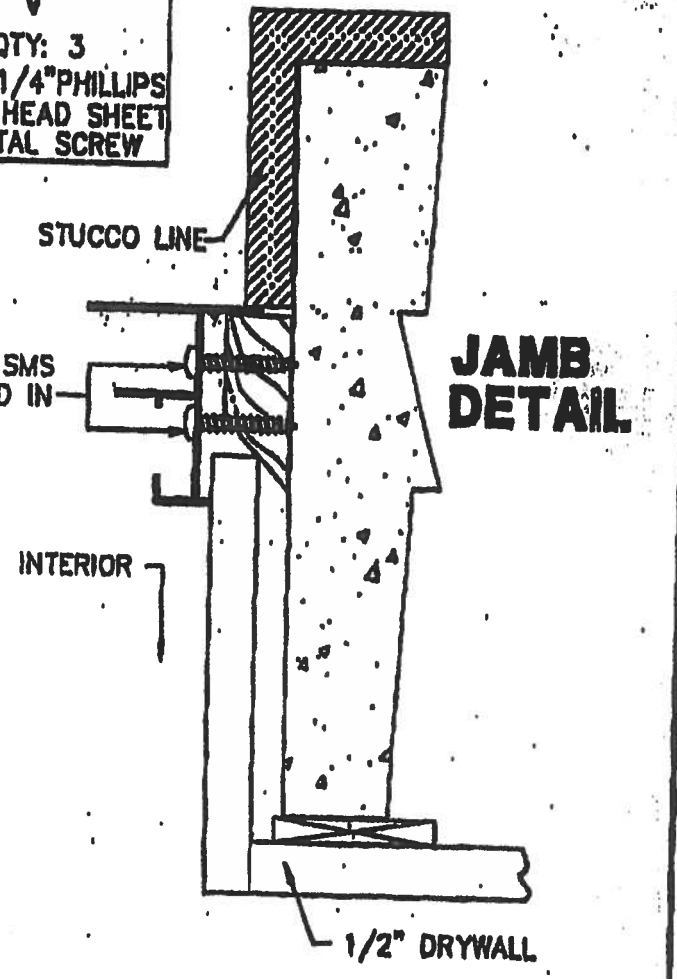
BetterBilt
DOORS AND WINDOWS

HEAD DETAIL

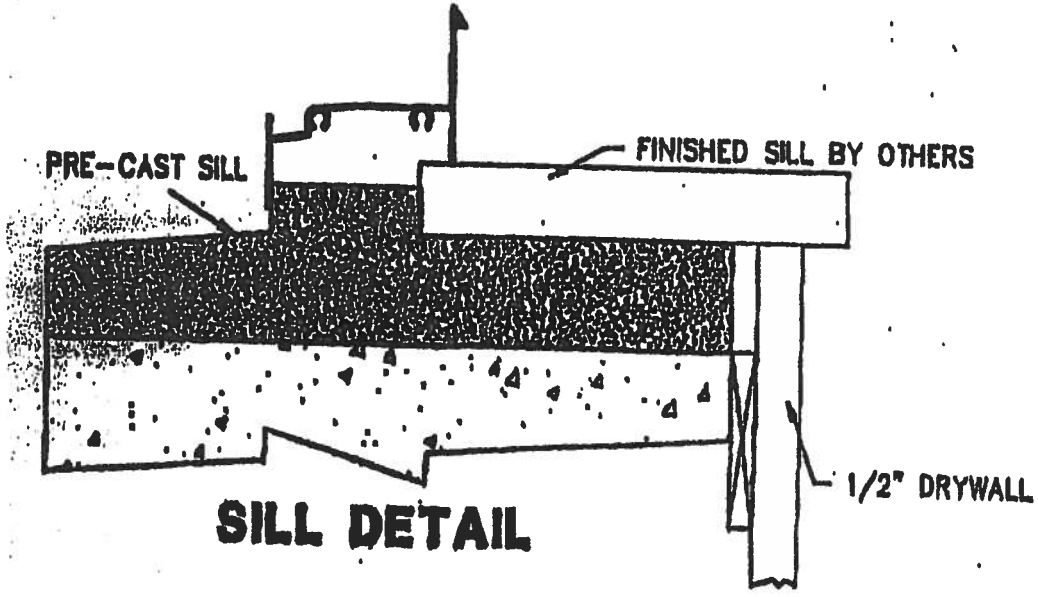


INCLUDED WITH WINDOW INSTALLATION SCREW PACK 99-08-919	
	
QTY: 6 #8x1"PHILLIPS PAN HEAD SHEET METAL SCREW	QTY: 3 #8X1 1/4"PHILLIPS FLAT HEAD SHEET METAL SCREW

JAMB DETAIL



SILL DETAIL



NOTE:

FASTENER TYPE AND LOCATION MAY VARY DEPENDING ON LOCAL CODES.

Jeld-Wen, Inc.

ACCEPTANCE No.: 00-100

APPROVED : JAN 1 1

EXPIRES : April 14,

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

2. Any and all approved products shall be permanently labeled with the manufacturer's name, ci 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 thi 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 bee requested (through the filing of a revision application with appropriate fee) and granted by this c

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, s 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 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 1 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 acc 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 <u>will not require</u> a hurric protection system. Sidelites <u>will require</u> 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, P.E. Product Control Examine
Product Control Division

MIAMI-DADE COUNTY, F
METRO-DADE FLAGLER B

BUILDING CODE COMPLIANCE
METRO-DADE FLAGLER B
140 WEST FLAGLER STREET, SU
MIAMI, FLORIDA 3
(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 Ty Construction, and completely described herein, has been recommended for acceptance by the Miami- 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 secu 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 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

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. Hall, Technician

ALLEN H. REEVE
CERTIFICATE
NO. 19564
STATE OF

Allen H. R.

DoorCraft® Steel

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

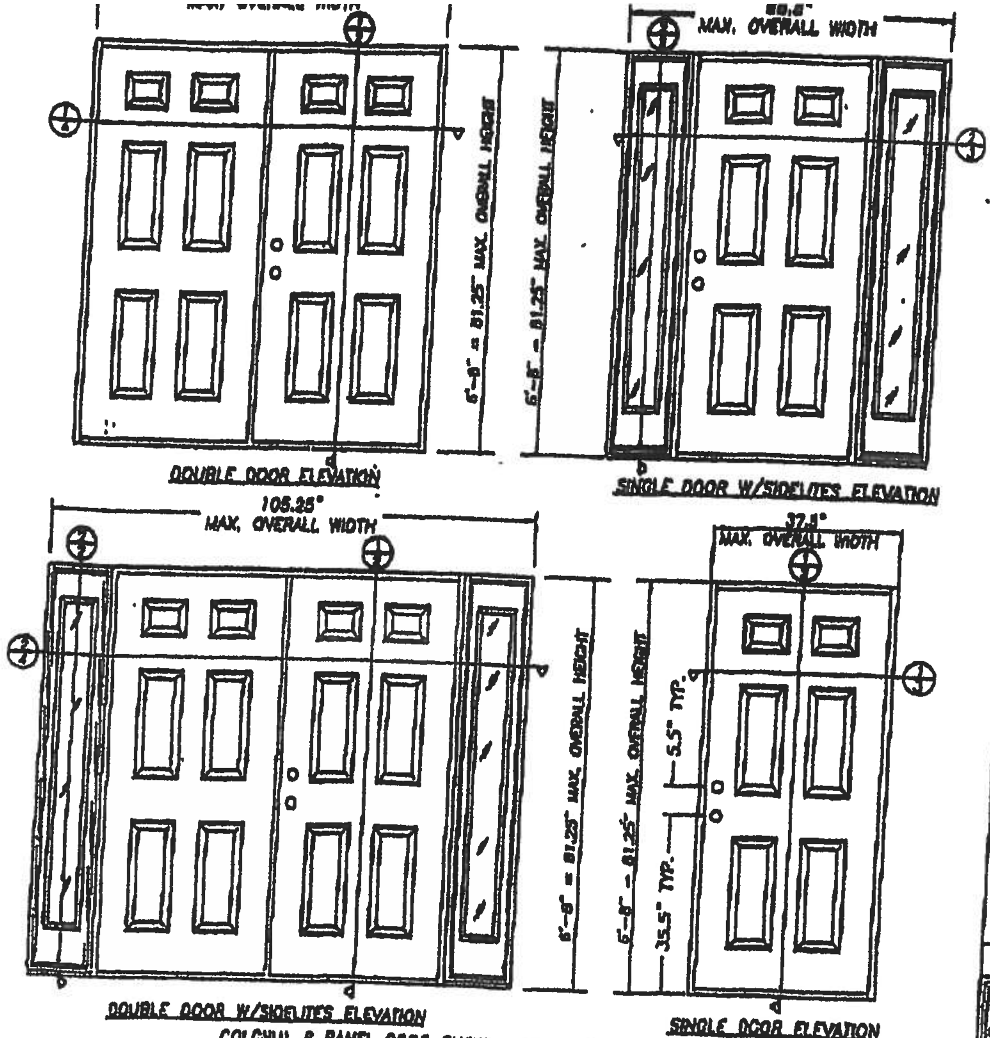
GENERAL NOTES

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 – A60 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 8 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. 00-1003.03

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

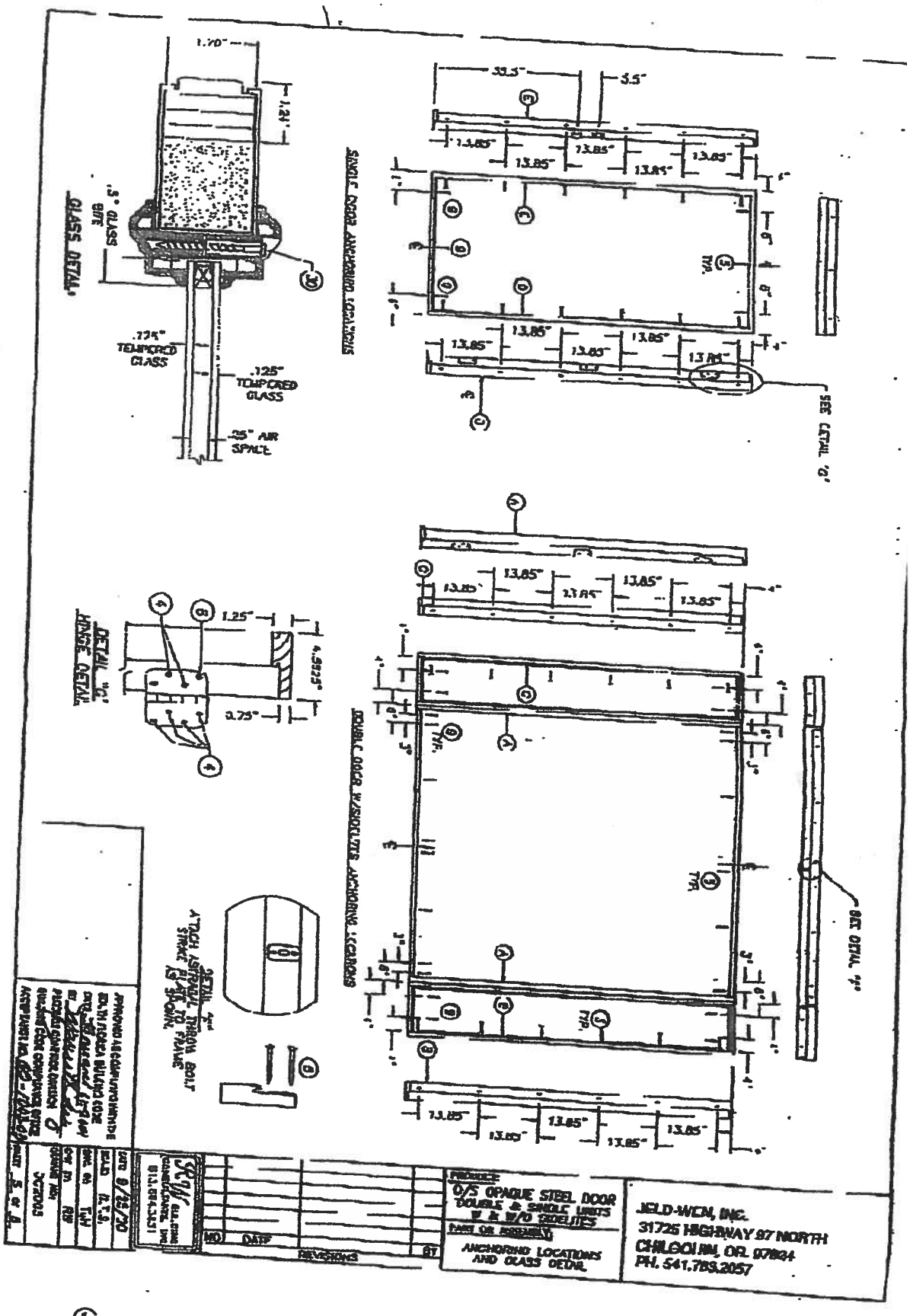
PRODUCT: O/S OPAQUE STEEL DOOR DOUBLE & SINGLE UNITS W & W/O SIDELITES

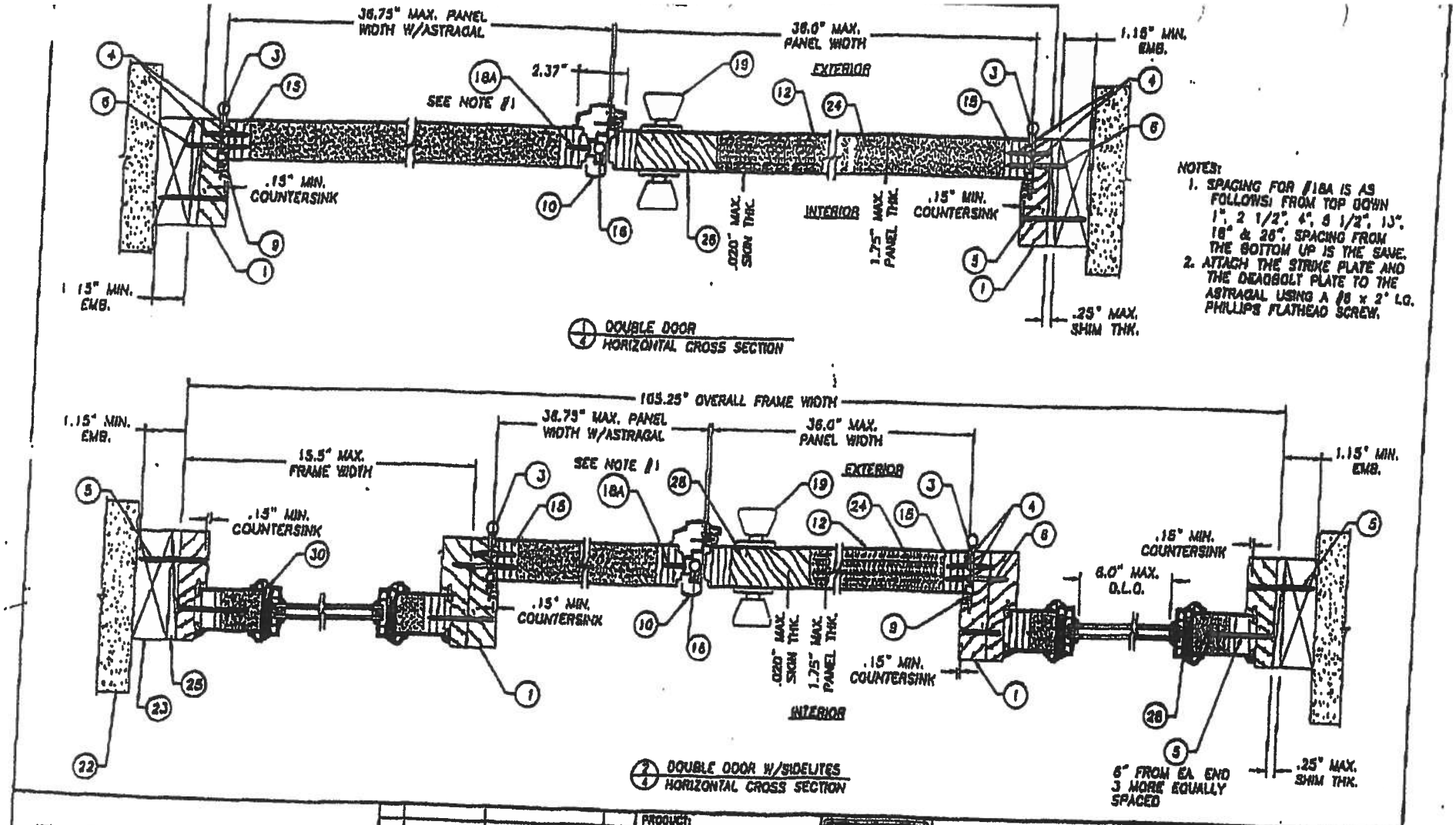
PART OR ASSEMBLY: ELEVATIONS AND GENERAL NOTES

NO.	DATE	REVISIONS	BY

RW BUILDING CONSULTANTS, INC
813.684.3831

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


GLASS DETAIL
SINGLE DOOR ANCHORING LOCATIONS
SEE DETAIL "B"
HINGE DETAIL "C"
DOUBLE DOOR W/SIDELITES ANCHORING LOCATIONS
SEE DETAIL "A"
DETAIL "A" ATTACH ASPHALT STRIKE 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 8/28/20



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 8/15/01
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-1002.09

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

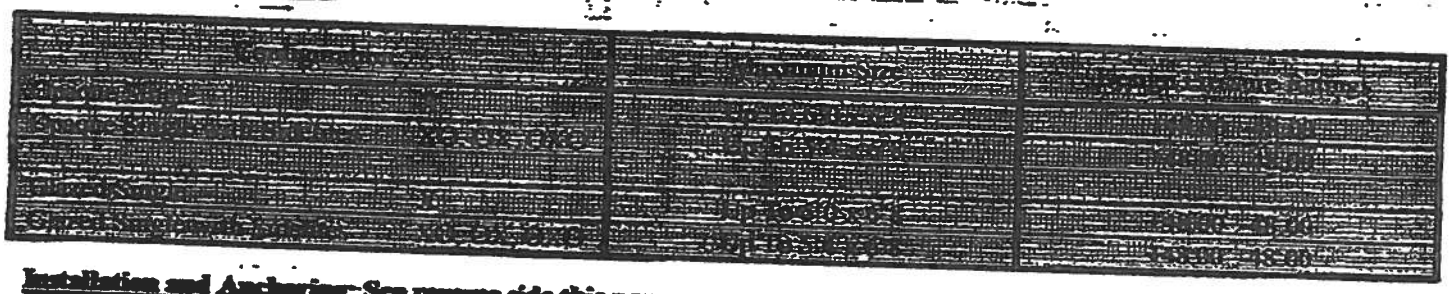
General Description: The head and jambs are wood measuring 4.5" x 1.25" with an extruded aluminum saddle threshold. The door panels and sidelite panels are 1.75" thick and consist of two 25 gauge (min 0.018") steel skins glued to wood stiles and rail with an expanded polystyrene core. The glazed models 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-ME	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-ME	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-ME	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-ME	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

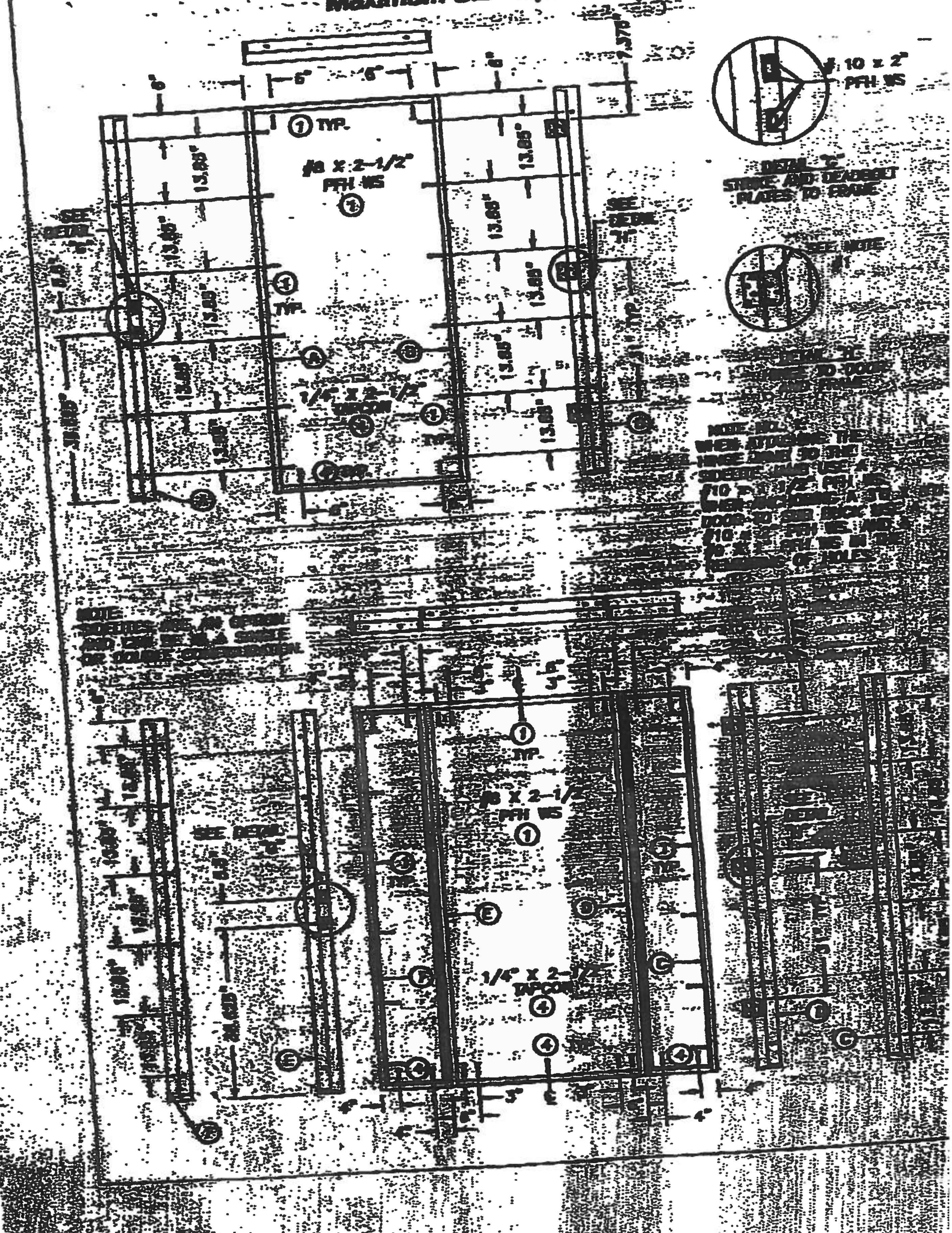
1. Evaluated for use in locations adhering to the Florida Building Code and whose pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures does not exceed the design pressure ratings listed above.

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



Residential System Sizing Calculation

Summary

Spec House

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
Registration No. 0
Climate: North

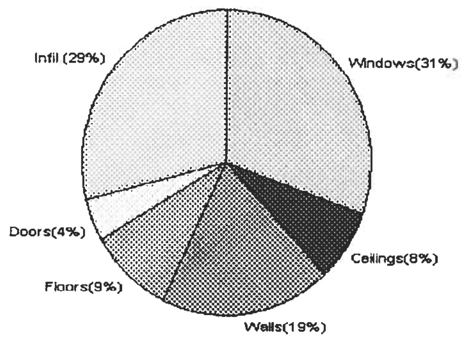
1/18/2006

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	**17289**	**Btuh**	**Total cooling load calculation**	**14897**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	115.7	20000	Sensible (SHR = 0.75)	119.4	15000
Heat Pump + Auxiliary(0.0kW)	115.7	20000	Latent	214.5	5000
			Total (Electric Heat Pump)	134.3	20000

WINTER CALCULATIONS

Winter Heating Load (for 1396 sqft)

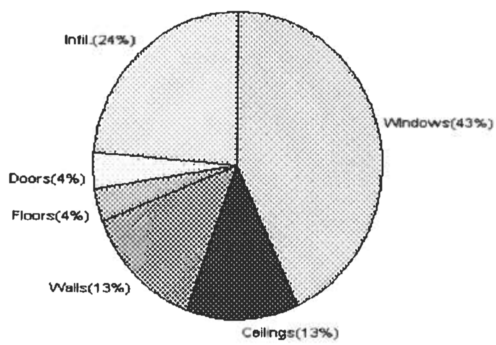
Load component			Load	
Window total	165	sqft	5305	Btuh
Wall total	1001	sqft	3288	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	1147	sqft	1352	Btuh
Floor total	868	sqft	1611	Btuh
Infiltration	122	cfm	4957	Btuh
Duct loss			0	Btuh
Subtotal			**17289**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**17289**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1396 sqft)

Load component			Load	
Window total	165	sqft	6383	Btuh
Wall total	1001	sqft	1986	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			**12565**	**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			**14897**	**Btuh**



For Florida residences only

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

EnergyGauge® FLR2PB v4.1

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
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	823	3.3	2703 Btuh
2	Frame - Wood - Adj(0.09)	13.0	178	3.3	585 Btuh
	Wall Total		1001		3288 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:		12332 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**		**17289 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	17289 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17289 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: 512296Bauhus | 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	823	3.3	2703 Btuh
2	Frame - Wood - Adj(0.09)	13.0	178	3.3	585 Btuh
	Wall Total		1001		3288 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:		12332 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**		**17289 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	17289 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17289 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: 512296Bauhus | 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	823.2	2.1	1717 Btuh
2	Frame - Wood - Adj	13.0/0.09	178.0	1.5	269 Btuh
	Wall Total		1001 (sqft)		1986 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:	11378 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	**12565 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**12565 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**12565 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**12565 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	**14897 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

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
Registration No. 0
Climate: North

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

1/18/2006

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Overhang Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	HTM 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	823.2	2.1	1717 Btuh
2	Frame - Wood - Adj	13.0/0.09	178.0	1.5	269 Btuh
	Wall Total		1001 (sqft)		1986 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:		11378 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		**12565 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL

Project Title:
512296Bauhus

Class 3 Rating
Registration No. 0
Climate: North

1/18/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**12565 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**12565 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**12565 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	**14897 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:
512296Bauhus

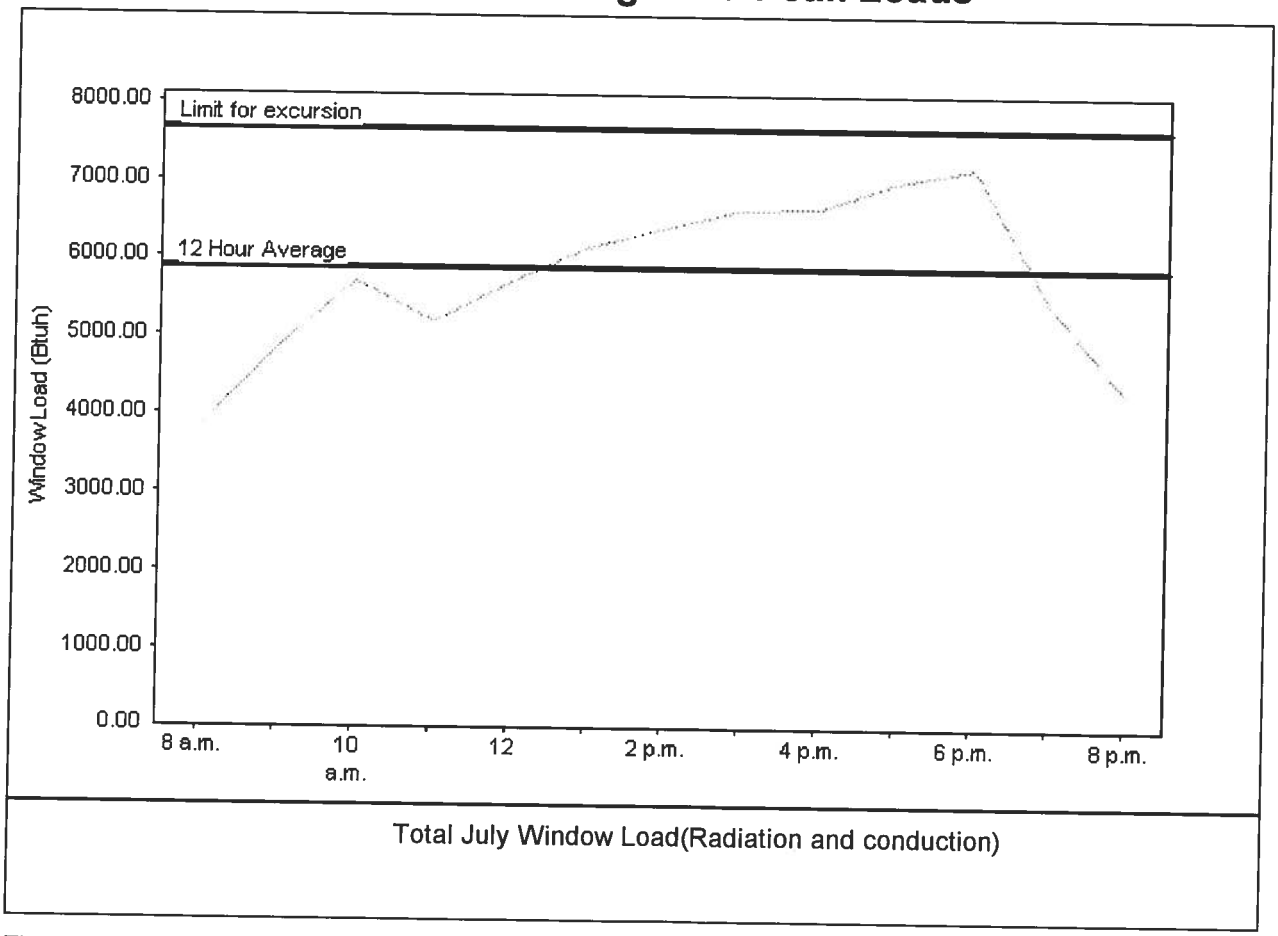
Class 3 Rating
Registration No. 0
Climate: North

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

.ocation: 528 DEANNA ROAD **Project Name:** REID HOUSE LOT 6

s required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the roduct approval number(s) on the building components listed below if they will be utilized on the construction project fo hich you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local produ upplier should you not know the product approval number for any of the applicable listed products. More information bout 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 780	AAMA/NWWDA
2. Horizontal Slider			101/LS12-9
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	HARDY BOARD		
2. Soffits	ALUMINUM		
3. EIFS			
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	MAYO TRUSS COMPANY		
3. Engineered lumber		GLULAM	
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms		PU	
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 inspect

Contractor or Contractor's Authorized Agent Signature

WOLF SCHROM 1.25.06

Print Name Date

HOLLYBROOK

Location

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