MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Outswing Glazed Double w/sidelites Residential Insulated Steel Doors
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade 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 this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

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

ACCEPTANCE NO.: 01-0314.29
EXPIRES: 04/02/2006

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: 06/05/2001

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 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 1606 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 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☑	☑ B/L	**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**
		a) Plans or specifications must state compliance with FBC Section 1606
		b) The following information must be shown as per section 1606.1.7 FBC
		a. Basic wind speed (MPH)
		b. Wind importance factor (I) and building category
		c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
		d. The applicable internal pressure coefficient
		e. Components and Cladding. The design wind pressure 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
☑	☐ N/A	d) Location, size and height above roof of chimneys
☐	☐ N/A	e) Location and size of skylights
☑	☑	f) Building height
☑	☑	e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned

b) Shear walls

c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown) Master Bath

d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth

e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails

f) Must show and identify accessibility requirements (accesssable 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 104.2.1 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 104.2.1 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
6. Roof assembly shown here or on roof system detail (FBC 104.2.1 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)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 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)

Garage door
Back porch
Glass door Rear

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 N/A

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

HVAC information

a) Manual J sizing equipment or equivalent computation

b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

Gas System Type (LP or Natural) Location and BTU demand of equipment N/A

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.29

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.31 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Outswing Glazed Double Residential Insulated Steel Door with Sidelites and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1028-EW-O, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Outswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall 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 only, 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 this unit will require a hurricane protection system.

5. LABELING

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

6. BUILDING PERMIT REQUIREMENTS

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

6.1.1 This Notice of Acceptance

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

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

Manuel Perez

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

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.29

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, 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, including 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 office.

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 purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed 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 needs 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.

END OF THIS ACCEPTANCE

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

MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
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PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade 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 this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

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

ACCEPTANCE NO.: 01-0314.18
EXPIRES: 04/02/2006

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: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.20 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door in Wood Frames with a Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

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):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

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

6. BUILDING PERMIT REQUIREMENTS

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

6.1.1 This Notice of Acceptance

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

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

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

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, 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, including 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 office.

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 purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed 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 needs 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.

END OF THIS ACCEPTANCE

Manuel Perez

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

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844 (863) 422-8685
Florida Engineering Certificate of Authorization Number: 567
 Document ID:1SAJ7455Z0719081756

Truss Fabricator: Lumber Unlimited Palatka Truss Division
Job Identification: P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La (P4-0094|-L
Truss Count: 48
Model Code: Florida Building Code 2001
Truss Criteria: ANSI/TPI-1995(STD)
Engineering Software: Alpine Software,Version 19.633.
Structural Engineer of Record or See Below:
Address:
Minimum Design Loads: Roof - 42 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE-98 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-1995 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The loads indicated on all referenced girder trusses are consistent with the truss layout provided by Lumber Unlimited Palatka Truss Division for the above referenced job identification. Loads applied by non-elements and basic load parameters are to be reviewed and approved by the EOR/building designer.
4. As shown on attached drawings; the drawing number is preceded by: HCUSR7455

Details: CNBRGBLK

Seal Date: 02/19/2004

-Truss Design Engineer-
Manuel Martinez
Florida License Number: 47182
1950 Marley Drive
Haines City, FL 33844

#	Ref Description	Drawing#	Date
1	46686--A01 2-PLY	04050035	02/19/04
2	46687--A02	04050036	02/19/04
3	46688--A03	04050037	02/19/04
4	46689--A04	04050038	02/19/04
5	46690--A05	04050039	02/19/04
6	46691--A06	04050027	02/19/04
7	46692--A07	04050028	02/19/04
8	46693--A08	04050030	02/19/04
9	46694--A09	04050034	02/19/04
10	46695--A10	04050022	02/19/04
11	46696--A11	04050029	02/19/04
12	46697--A12	04050032	02/19/04
13	46698--A13	04050023	02/19/04
14	46699--A14	04050013	02/19/04
15	46700--A15	04050021	02/19/04
16	46701--A16	04050020	02/19/04
17	46702--A17	04050026	02/19/04
18	46703--A18	04050014	02/19/04
19	46704--A19	04050033	02/19/04
20	46705--A20 2-PLY	04050031	02/19/04
21	46706--B21	04050004	02/19/04
22	46707--B22	04050002	02/19/04
23	46708--B23	04050003	02/19/04
24	46709--C24	04050017	02/19/04
25	46710--C25	04050001	02/19/04
26	46711--C26 2-PLY	04050009	02/19/04
27	46712--D27	04050008	02/19/04
28	46713--D28	04050005	02/19/04
29	46714--D29	04050006	02/19/04
30	46715--D30	04050007	02/19/04
31	46716--HJ31	04050040	02/19/04
32	46717--HJ32	04050010	02/19/04
33	46718--HJ33	04050024	02/19/04

#	Ref Description	Drawing#	Date
34	46719--EJ34	04050041	02/19/04
35	46720--EJ35	04050042	02/19/04
36	46721--EJ36	04050025	02/19/04
37	46722--EJ37	04050019	02/19/04
38	46723--EJ38	04050011	02/19/04
39	46724--CJ39	04050043	02/19/04
40	46725--CJ40	04050044	02/19/04
41	46726--CJ41	04050018	02/19/04
42	46727--CJ42	04050016	02/19/04
43	46728--CJ43	04050045	02/19/04
44	46729--CJ44	04050046	02/19/04
45	46730--CJ45	04050012	02/19/04
46	46731--CJ46	04050015	02/19/04
47	46732--CJ47	04050047	02/19/04
48	46733--CJ48	04050048	02/19/04

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W6, W13 2x4 SP #2:

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Left end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	65	-0.54	44.94
BC	120	45.08	55.17

Deflection meets L/360 live and L/240 total load.

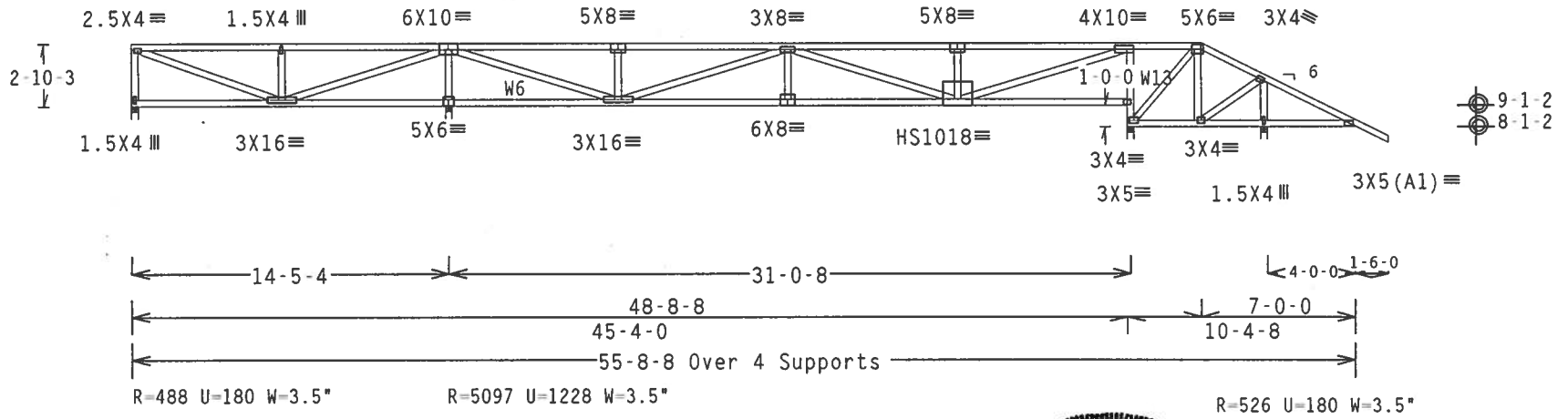
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

2 COMPLETE TRUSSES REQUIRED

NAILING SCHEDULE: (0.131x3.0_g_nails)
TOP CHORD: 1 ROW @ 12" o.c.
BOT CHORD: 1 ROW @ 12" o.c.
WEBS : 1 ROW @ 4" o.c.
USE EQUAL SPACING BETWEEN ROWS AND STAGGER NAILS IN EACH ROW TO AVOID SPLITTING.

Max JT VERT DEFL: LL: 0.35" DL: 0.14" recommended camber 1/4"

#1 hip supports 7-0-0 jacks with no webs.



PLT TYP. 20 Gauge HS,Wave TPI Design Crit: TPI-1995(STD)/FLBC 19.[illegible] FL/-/4/-/E/-/- Scale =.125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (H, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46686
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050035
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50782
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 :T4 2x4 SP #1 Dense:
Bot chord 2x4 SP #2 :B3 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W14 2x4 SP #2:
:W15 2x6 SP #1 Dense:

Left end vertical not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.63" DL: 0.25" recommended camber 1/2"

(A) Continuous lateral bracing equally spaced on member. Or 2x6 "T" brace. 80% length of web member. Same species & grade or better, attached with 16d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

** Negative reaction(s) of -1267# MAX. (See below) from a non-wind load case requires uplift connection.

** PROPER FUNCTIONS OF TRUSS REQUIRE RIGID ANCHORAGE AT RIGHT BEARING FOR 1268#. THE BUILDING DESIGNER MUST APPROVE THIS CONDITION.

Bearing blocks: Nail type: 0.131x3.0_g_nails

BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
2	45.333'	1	18"	12	Match Truss

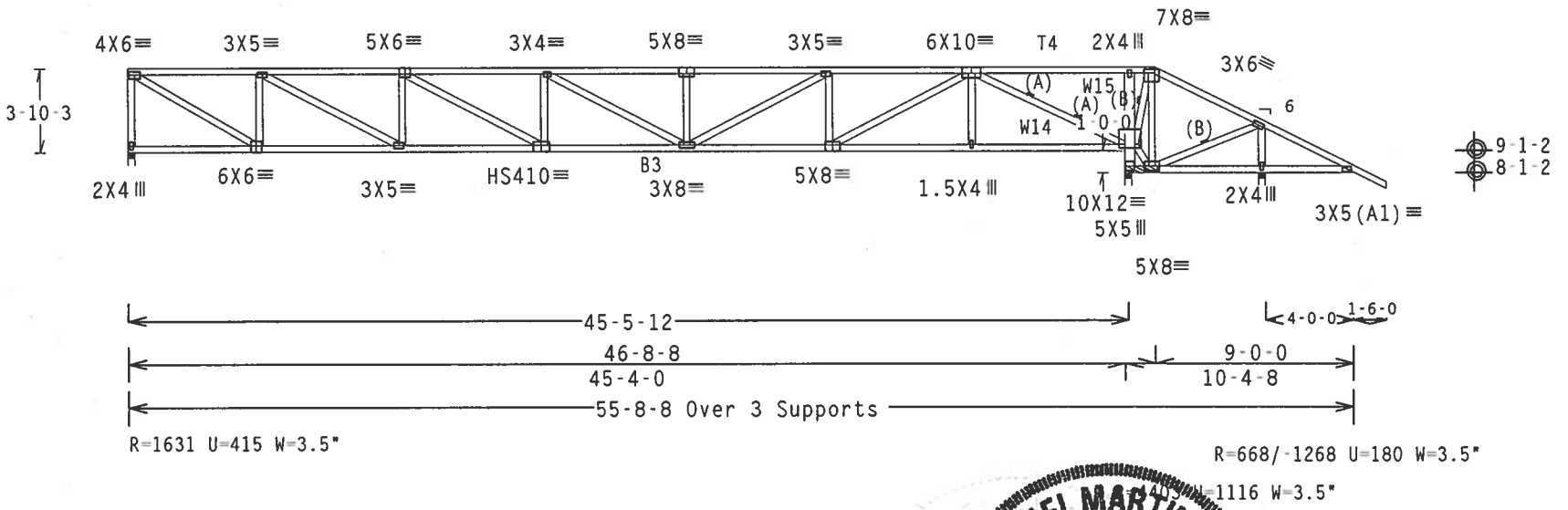
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK0503 for additional information.

110 mph wind, 10.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(B) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.00	55.71



PLT TYP. 20 Gauge HS,Wave TPI Design Crit: TPI-1995(STD)/FLBC 19.[illegible] FL/-/4/-/E/-/- Scale =.125"/Ft.

ALPINE
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46687
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050036
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50816
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W17 2x4 SP #2:

Left end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

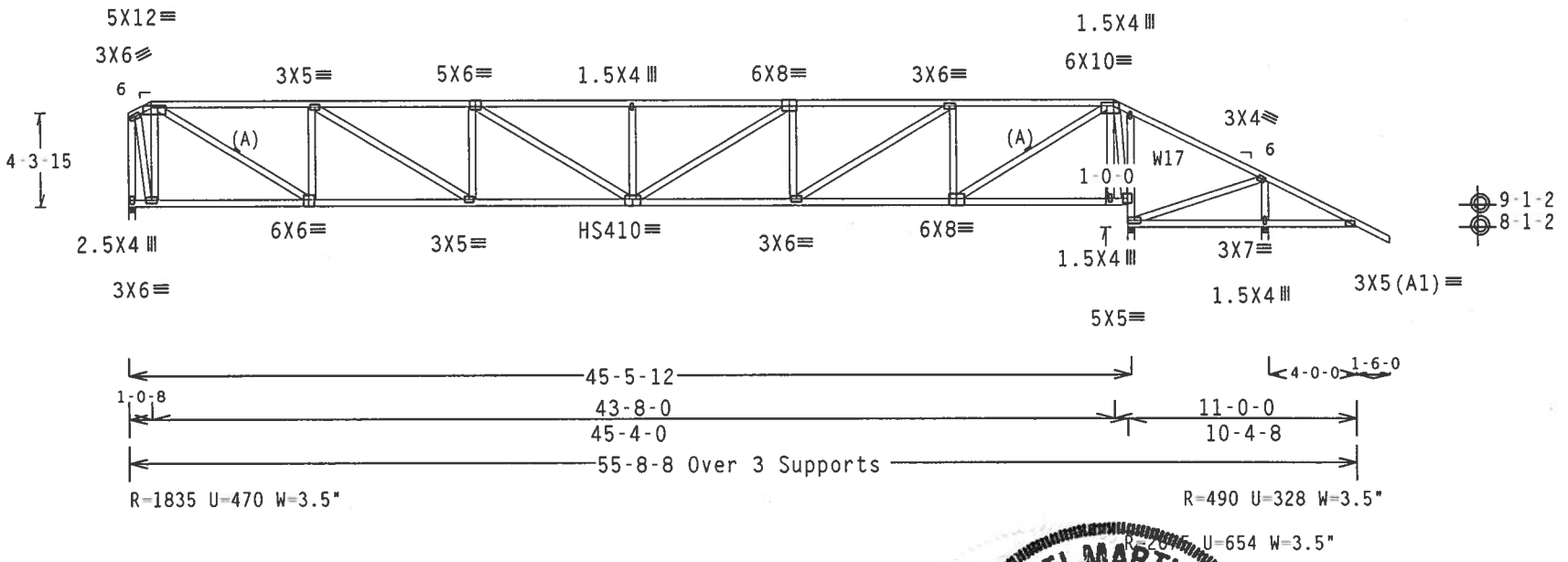
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.00	45.48
BC	75	45.62	55.71

110 mph wind, 10.82 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. 20 Gauge HS,Wave TPI Design Crit: TPI-1995(STD)/FLBC 19.6 Qty: FL/-/4/-/E/-/- Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46688
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050037
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50823
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46689--A04)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W15 2x6 SP #1 Dense:

110 mph wind, 11.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Left end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	58	0.00	42.65
BC	75	42.88	55.71

Bearing blocks: Nail type: 0.131x3.0_g_nails

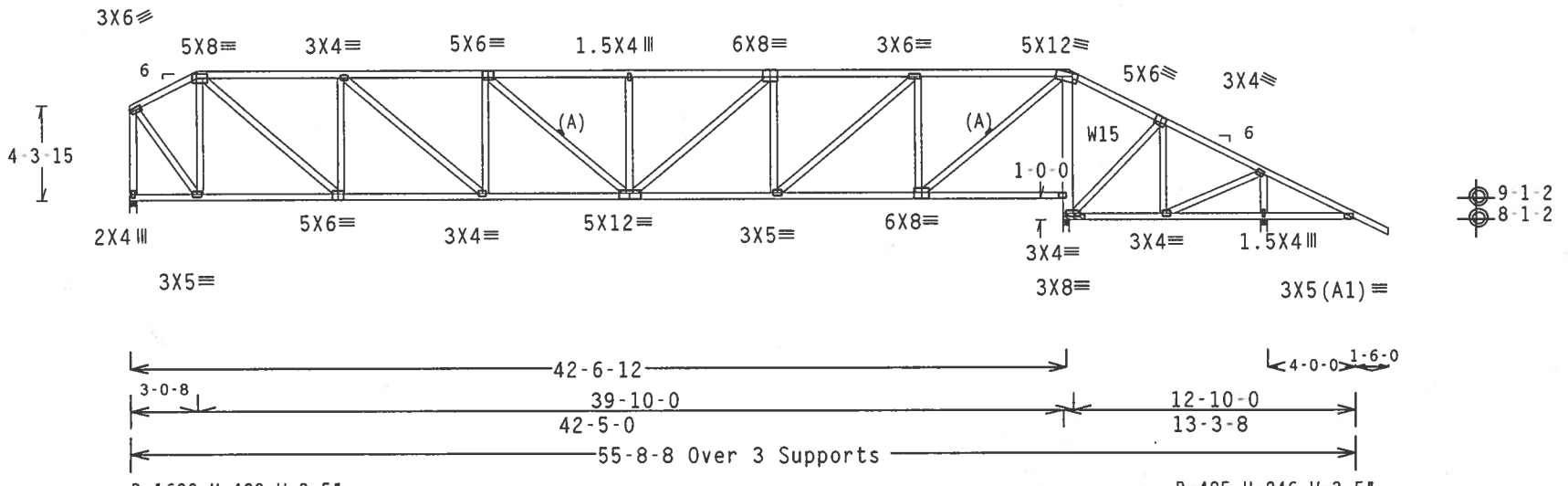
BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
2	42.417'	1	12"	4	Match Truss

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK0503 for additional information.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.6 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46689
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050038
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50833
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46690--A05)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3 :W15 2x6 SP #1 Dense:

Left end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.00	42.65
BC	75	42.88	55.71

110 mph wind, 11.82 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

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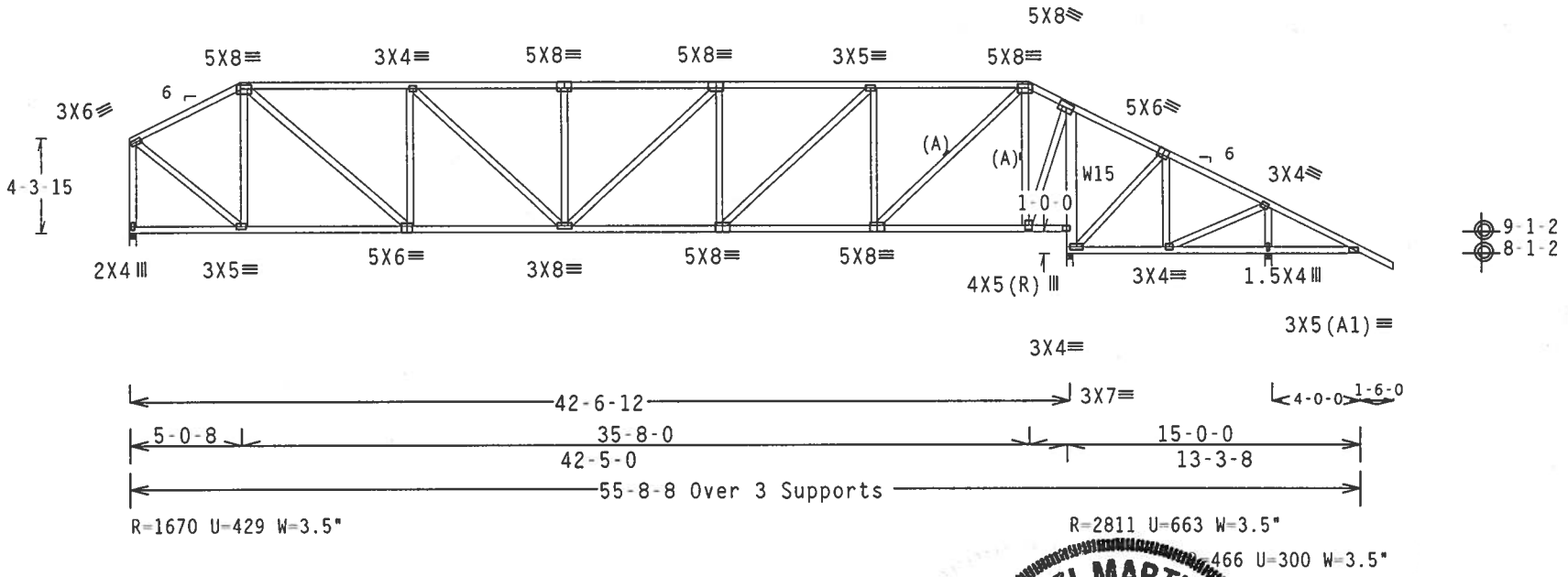

PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FLBC 19.6 FL/-/4/-/E/-/- Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46690
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050039
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50850
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A06)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

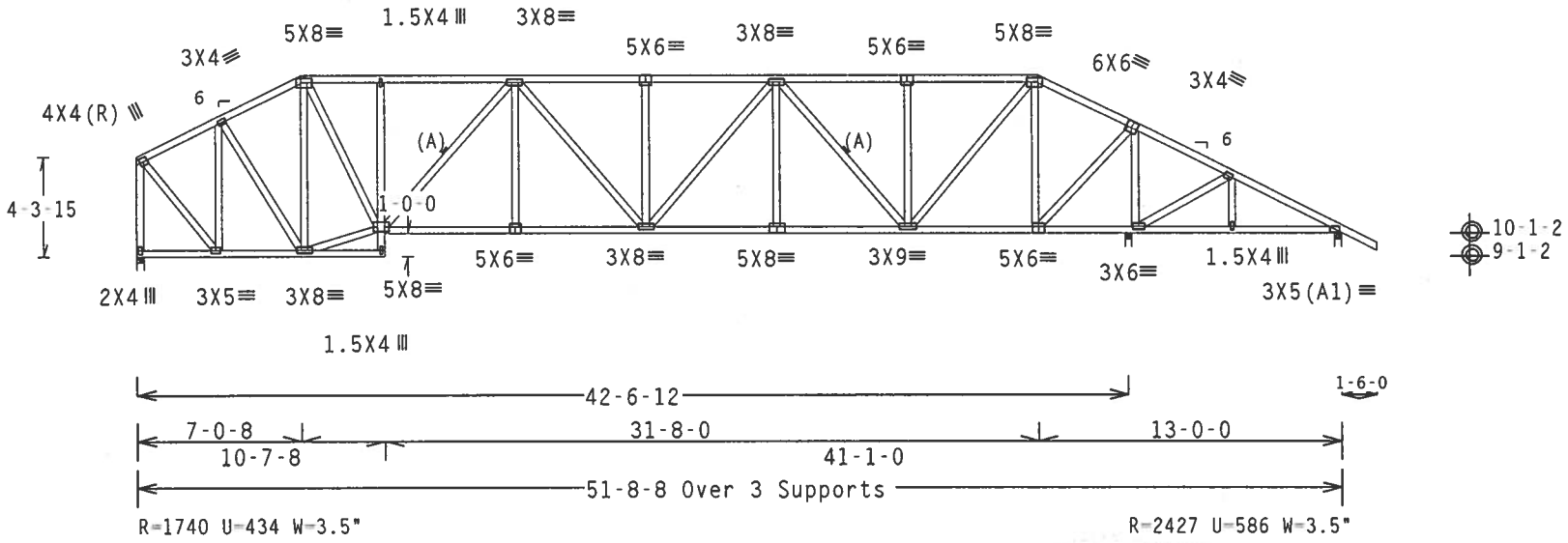
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	120	0.00	10.48
BC	49	10.48	51.42

110 mph wind, 13.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.[illegible] | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46691
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050027
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48797
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	120	0.00	10.48
BC	75	10.48	51.42

110 mph wind, 13.82 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

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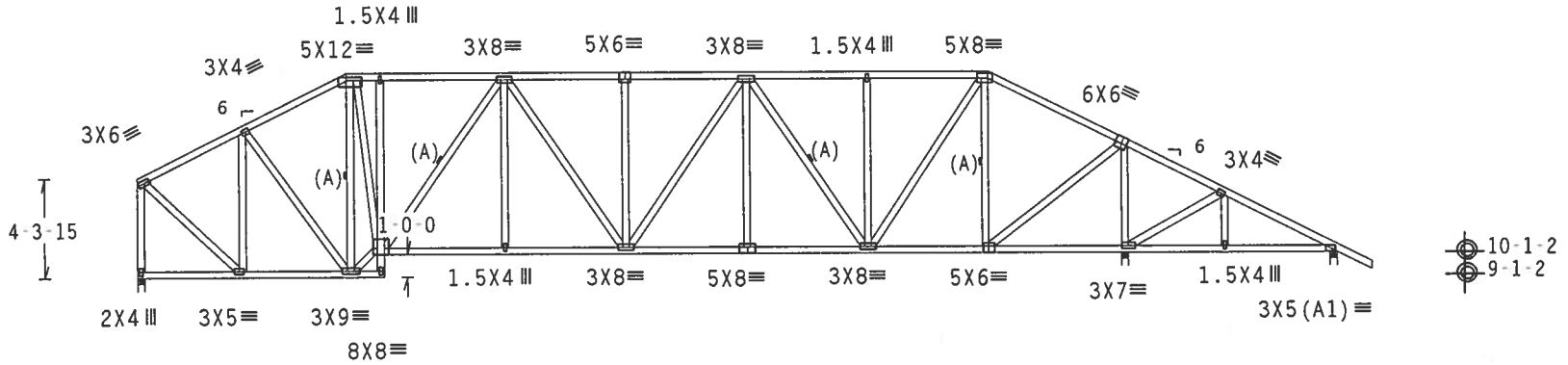

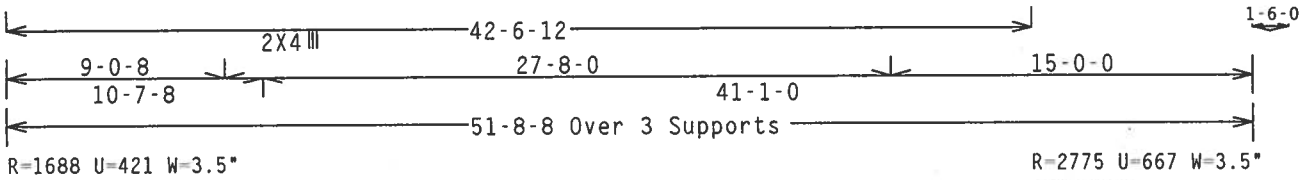

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.0 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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TC LL	20.0 PSF	REF R7455- 46692
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050028
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48801
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A08)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	72	0.29	57.38

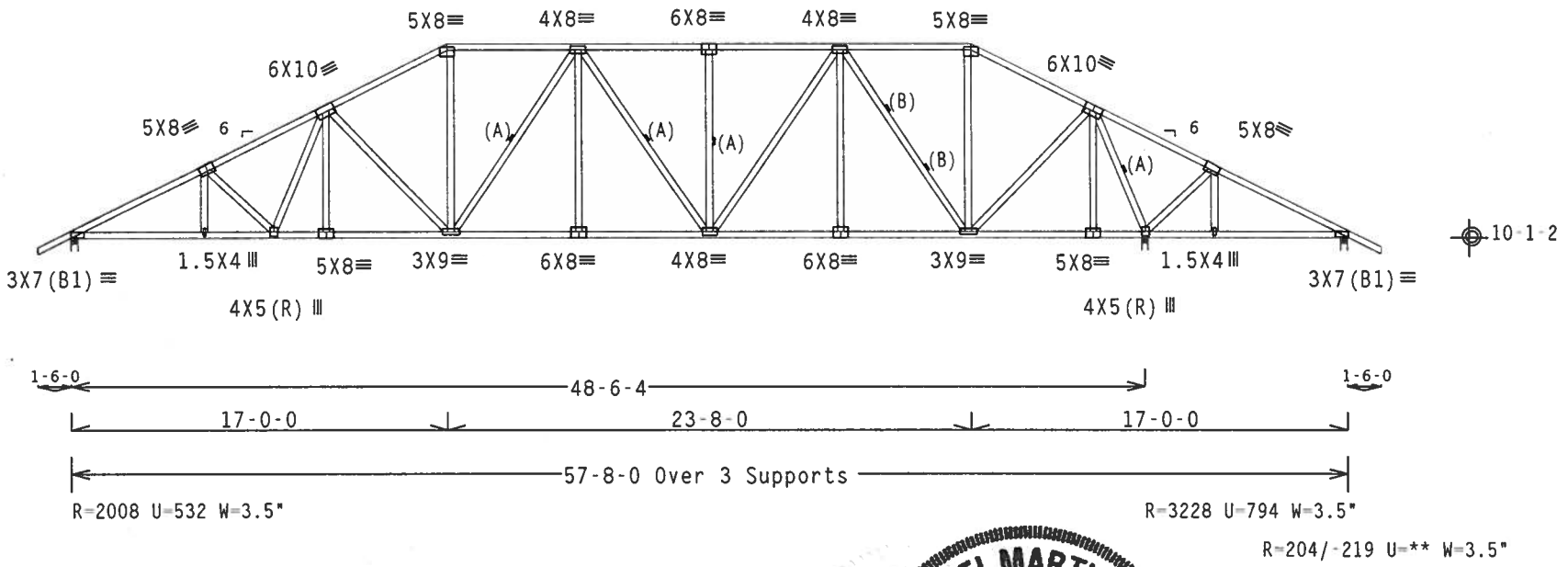
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

** Negative reaction(s) of -218# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 14.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(B) Continuous lateral bracing equally spaced on member. Or 2x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 16d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.083 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
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FL Certificate of Authorization # 567

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IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 19 04

TC LL	20.0 PSF	REF	R7455- 46693
TC DL	7.0 PSF	DATE	02/19/04
BC DL	5.0 PSF	DRW	HCUSR7455 04050030
BC LL	10.0 PSF	HC-ENG	JAH/MMA
TOT.LD.	42.0 PSF	SEQN-	48740
DUR.FAC.	1.25	FROM	JLA
SPACING	24.0"	JREF-	1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	74	-0.25	56.83

110 mph wind, 14.49 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

(B) Continuous lateral bracing equally spaced on member. Or 2x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 16d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

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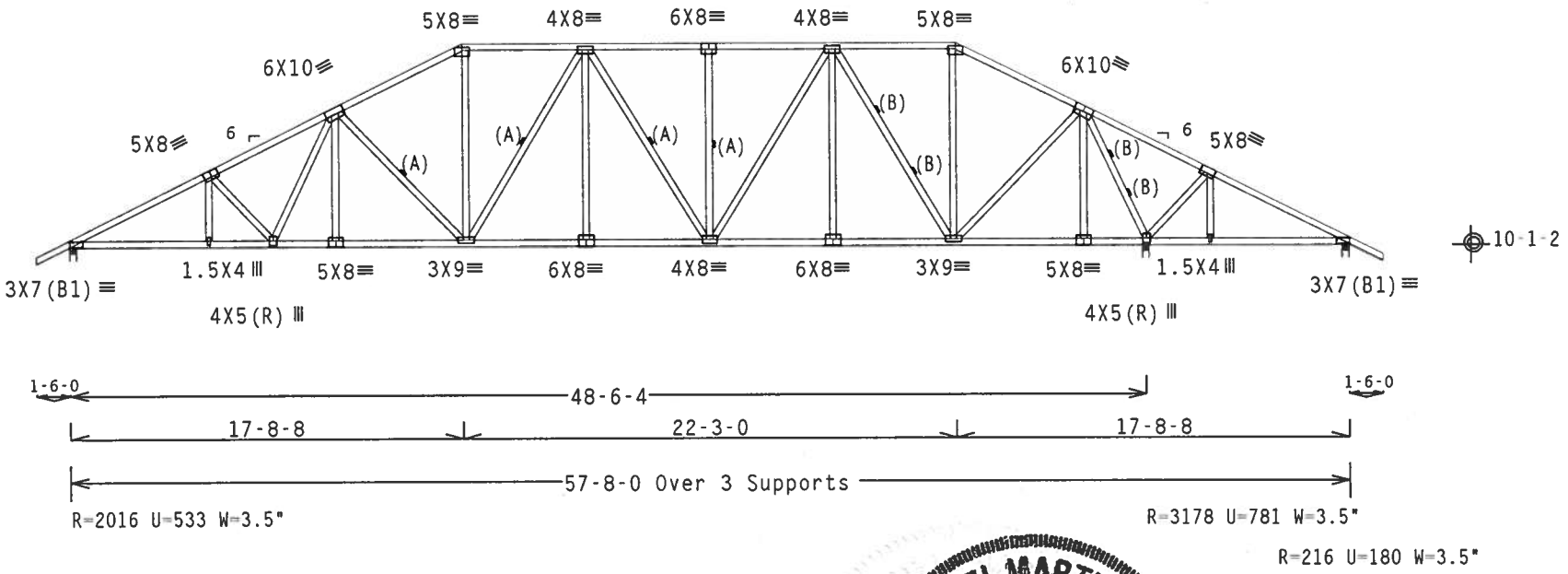

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46694
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050034
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48730
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

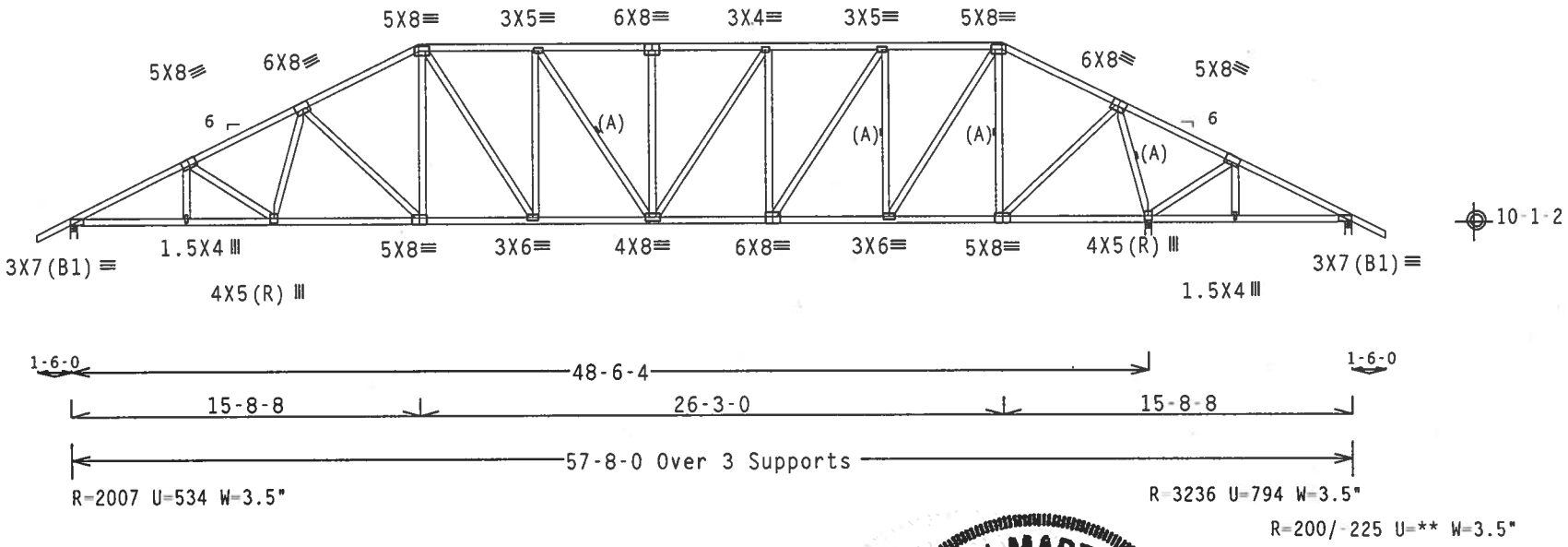
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

** Negative reaction(s) of -225# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 13.99 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	73	0.29	57.38



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6% | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46695
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050022
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48725
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A11)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

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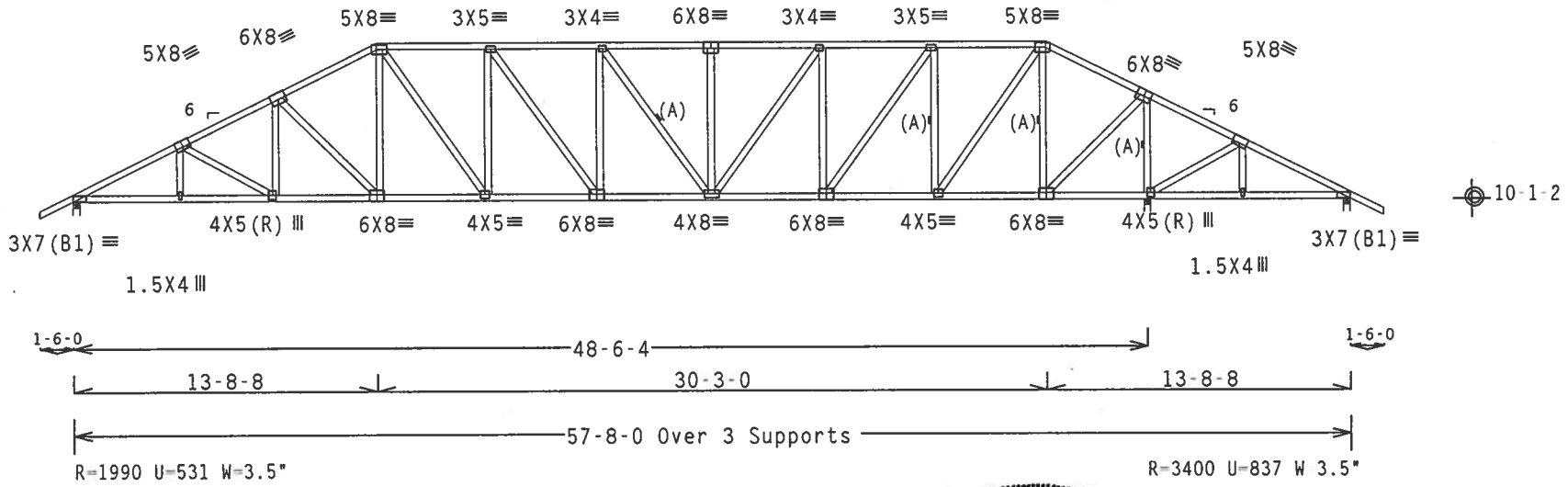
** Negative reaction(s) of -371# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 13.49 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	60	0.29	57.38



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6[illegible] | FL/-/4/-/E/-/- | Scale =.125"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46696
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050029
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48721
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A12)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

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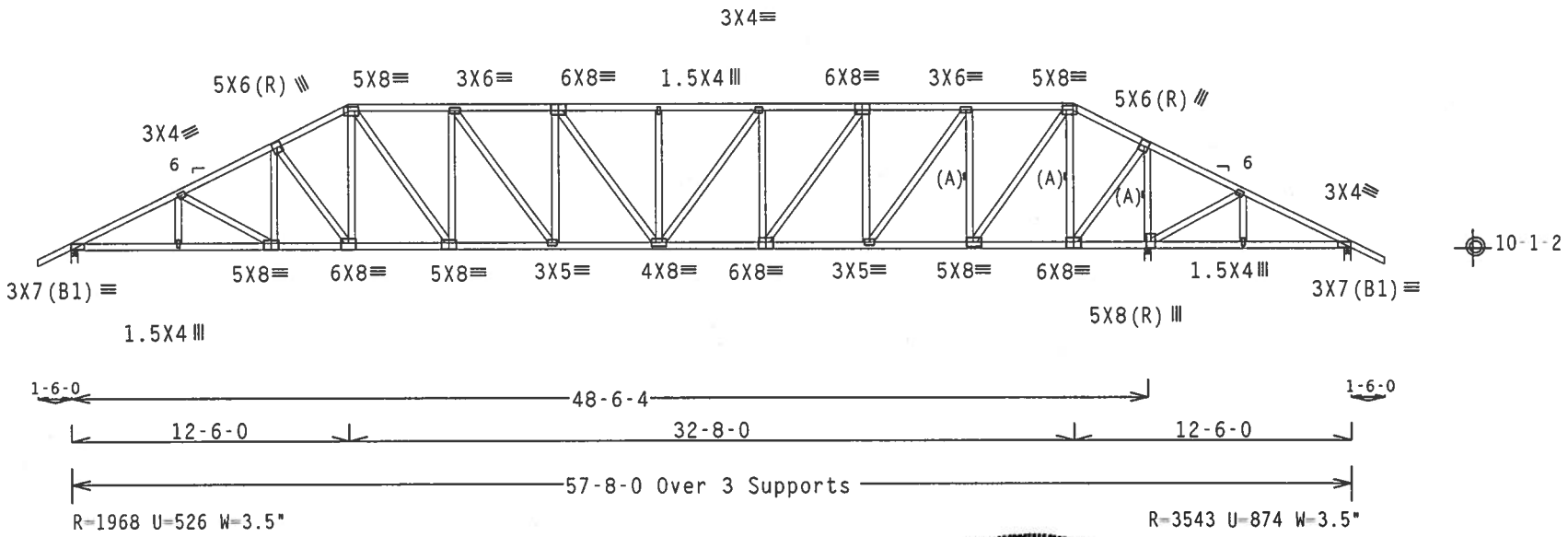
** Negative reaction(s) of -493# MAX. (See below) from a non-wind load case requires uplift connection.

110 mph wind, 13.19 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	56	-0.25	56.83



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46697
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050032
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48716
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A13)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

** Negative reaction(s) of -850# MAX. (See below) from a non-wind load case requires uplift connection.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

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Bearing blocks: Nail type: 0.131x3.0_g_nails

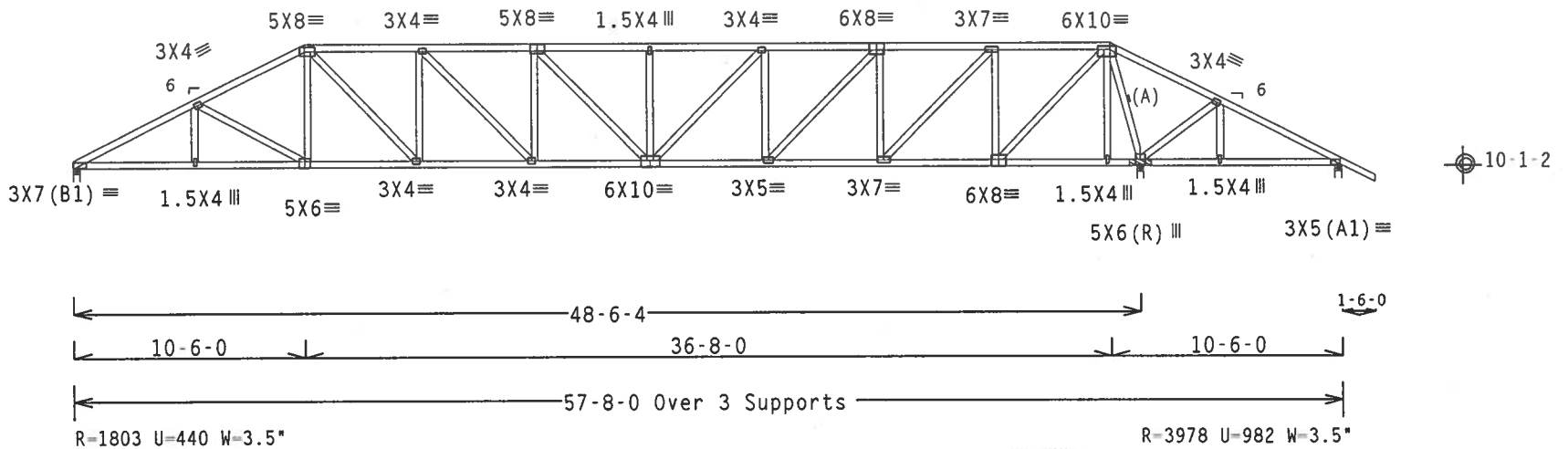
BRG	X-LOC	#BLOCKS	LENGTH/BLK	#NAILS/BLK	WALL PLATE
2	48.375'	1	12"	4	Match Truss

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK0503 for additional information.

110 mph wind, 12.69 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	49	0.29	57.38



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.2 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46698
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050023
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48695
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

110 mph wind, 14.57 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.00	51.21

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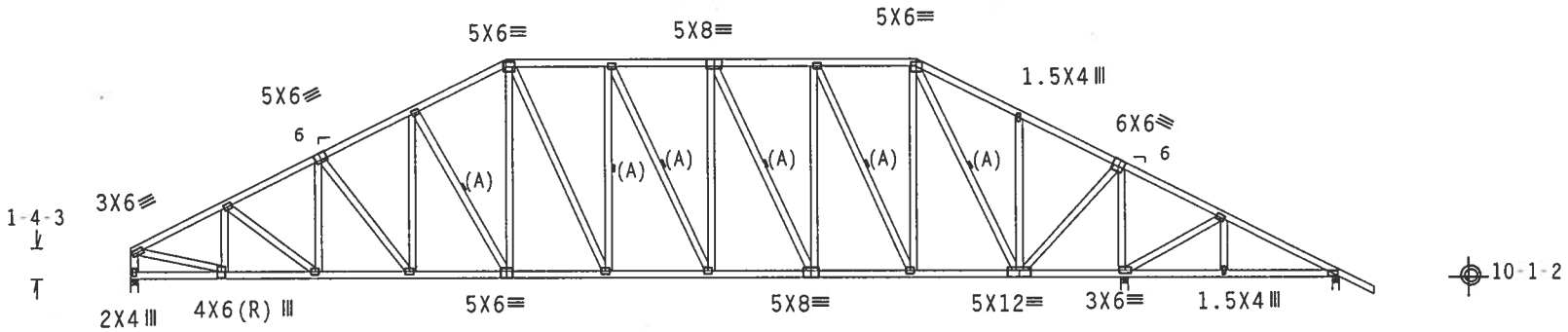

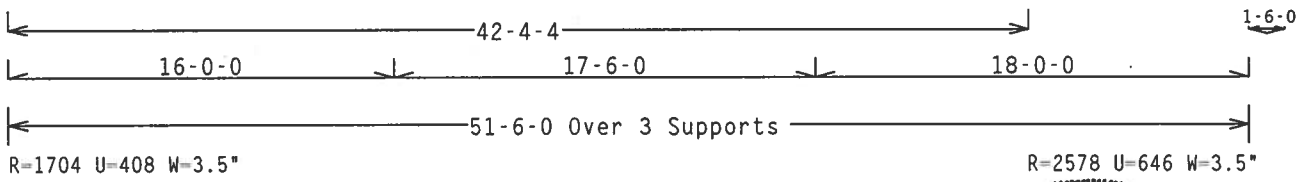

Note: All Plates Are W3X4 Except As Shown.

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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FL Certificate of Authorization # 567

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46699
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050013
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48686
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d nails @ 6" OC.

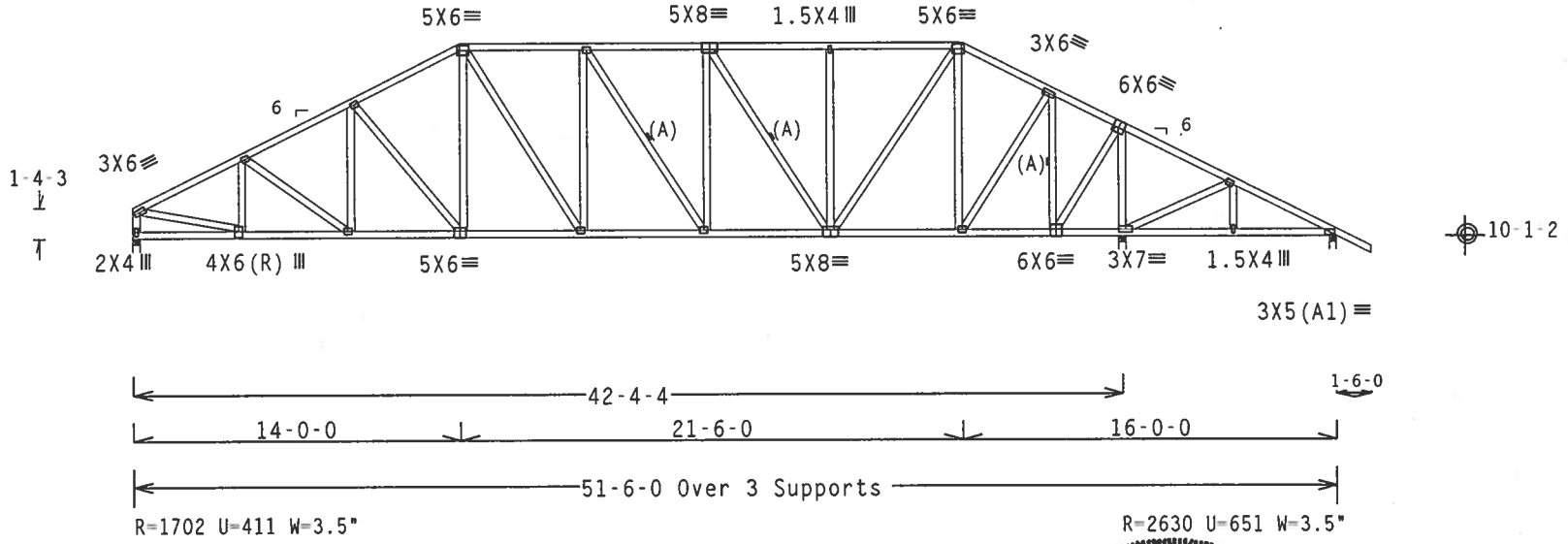
Deflection meets L/360 live and L/240 total load.

110 mph wind, 14.07 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.00	51.21

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Note: All Plates Are W3X4 Except As Shown.

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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MANUEL MARTINEZ
CERTIFICATE
No. 47182
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Feb 19 04

TC LL	20.0 PSF	REF	R7455- 46700
TC DL	7.0 PSF	DATE	02/19/04
BC DL	5.0 PSF	DRW	HCUSR7455 04050021
BC LL	10.0 PSF	HC-ENG	JAH/MMA
TOT.LD.	42.0 PSF	SEQN-	48682
DUR.FAC.	1.25	FROM	JLA
SPACING	24.0"	JREF-	1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

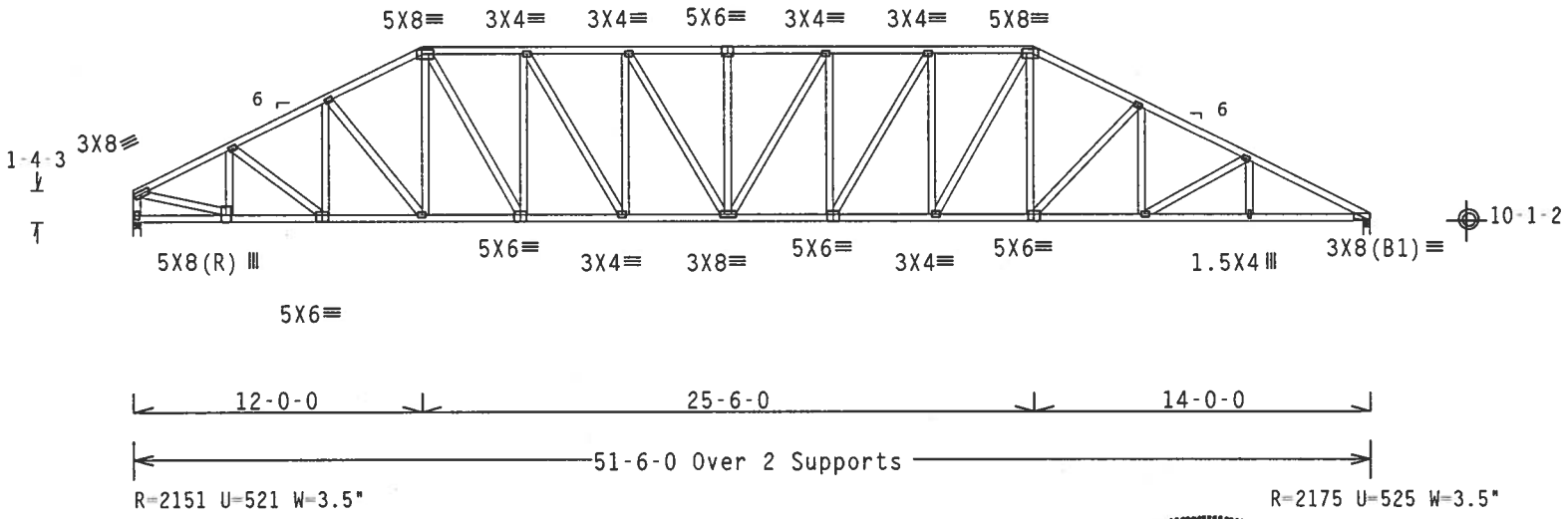
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	82	0.00	51.21

110 mph wind, 13.94 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Note: All Plates Are W2.5X4 Except As Shown.

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.83 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

ALPINE
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46701
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050020
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48678
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

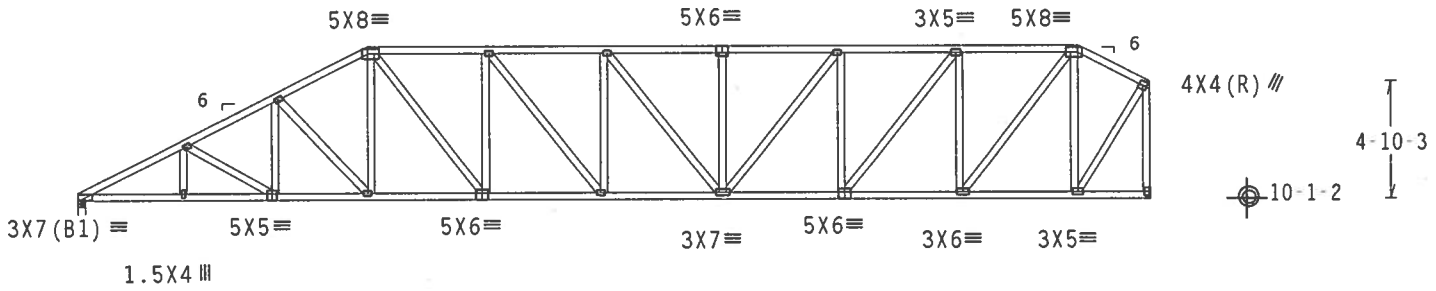
Deflection meets L/360 live and L/240 total load.

110 mph wind, 13.44 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	82	0.29	44.50



Note: All Plates Are W2.5X4 Except As Shown.

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.[illegible] | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
2-19-04

TC LL	20.0 PSF	REF R7455- 46702
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050026
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48673
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A18)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

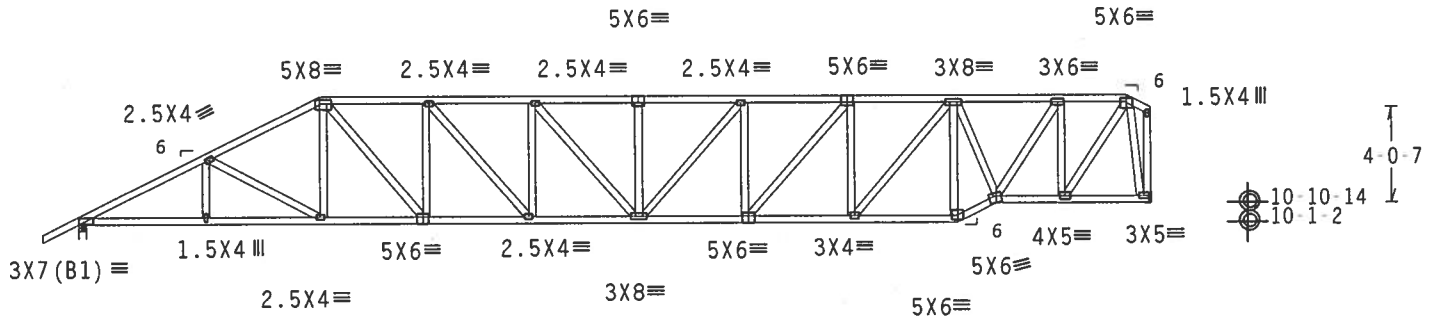
Deflection meets L/360 live and L/240 total load.

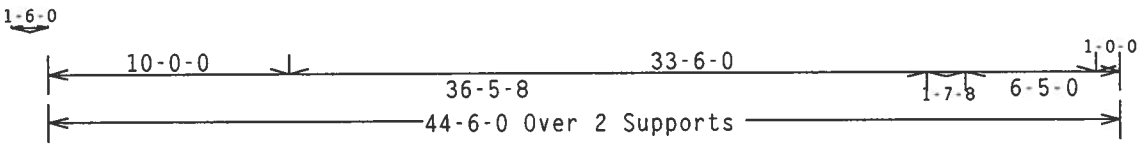
110 mph wind, 12.57 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.29	36.46
BC	22	36.46	38.08
BC	77	38.08	44.50





R=1970 U=518 W=3.5"

R=1855 U=465 H=Simpson HUS26
Common, 0.148"x3.0" nails in Truss
mmon, 0.148"x3.0" nails in Girder
min. So.Pine

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19 | FL/-/4/-/E/-/- | Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 19 04

TC LL	20.0 PSF	REF R7455- 46703
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050014
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48666
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - A19)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

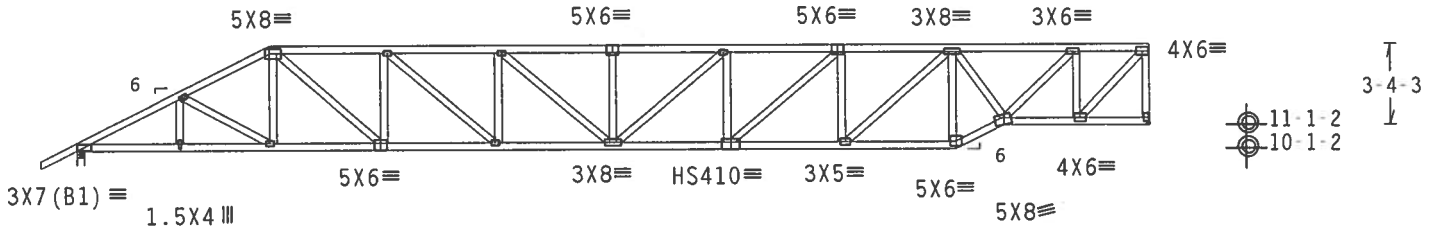
Deflection meets L/360 live and L/240 total load.

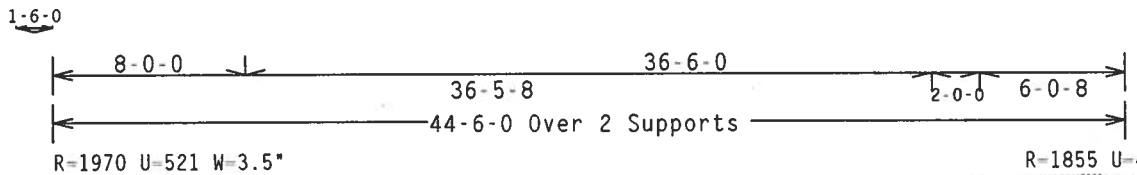
110 mph wind, 12.07 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	68	0.25	35.92
BC	27	35.92	37.92
BC	73	37.92	43.96





R=1970 U=521 W=3.5"

R=1855 U=466 H=Simpson HUS26
Common, 0.148"x3.0" nails in Truss
mmon, 0.148"x3.0" nails in Girder
min. So.Pine

Note: All Plates Are W2.5X4 Except As Shown.

PLT TYP. 20 Gauge HS,Wave TPI Design Crit: TPI-1995(STD) 19 FL/-/4/-/E/-/- Scale =.125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
Feb 19 04

TC LL	20.0 PSF	REF R7455- 46704
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050033
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48662
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2, B3 2x4 SP #1 Dense:
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

#1 hip supports 6-0-0 jacks with no webs.

Deflection meets L/360 live and L/240 total load.

Calculated vertical deflection is 0.91" due to live load and 0.37" due to dead load at X = 23-4-14.

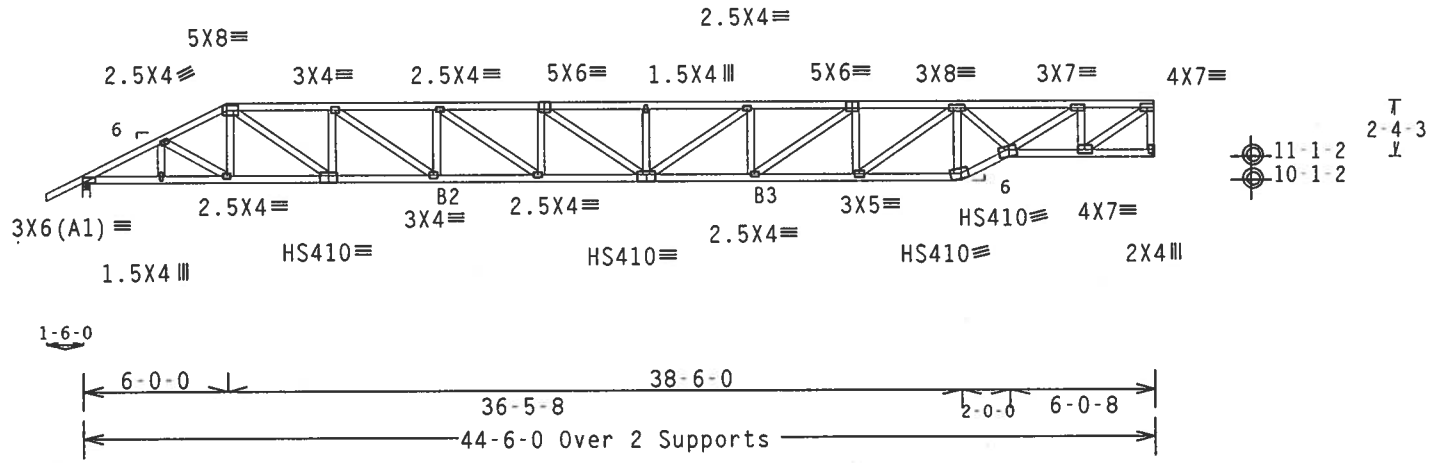
2 COMPLETE TRUSSES REQUIRED

NAILING SCHEDULE: (0.131x3.0_g_nails)
TOP CHORD: 1 ROW @ 12" o.c.
BOT CHORD: 1 ROW @ 12" o.c.
WEBS : 1 ROW @ 4" o.c.
USE EQUAL SPACING BETWEEN ROWS AND STAGGER NAILS IN EACH ROW TO AVOID SPLITTING.

Right end vertical not exposed to wind pressure.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	99	0.29	36.46
BC	27	36.46	38.46
BC	73	38.46	44.50



R=3490 U=862 W=3.5"

R=3477 U=834 H=Simpson HGUS28-2
W/ (12) 10d Common, 0.148"x3.0" nails in Truss
H/ (8) 10d Common, 0.148"x3.0" nails in Girder
Girder: 2X8 min. So.Pine

PLT TYP. 20 Gauge HS,Wave TPI Design Crit: TPI-1995(STD) 19.83 FL/-/4/-/E/-/- Scale =.125"/Ft.

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TC LL	20.0 PSF	REF R7455- 46705
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050031
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48669
DUR.FAC.	1.25	FROM JLA
SPACING	SEE ABOVE	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - B21)

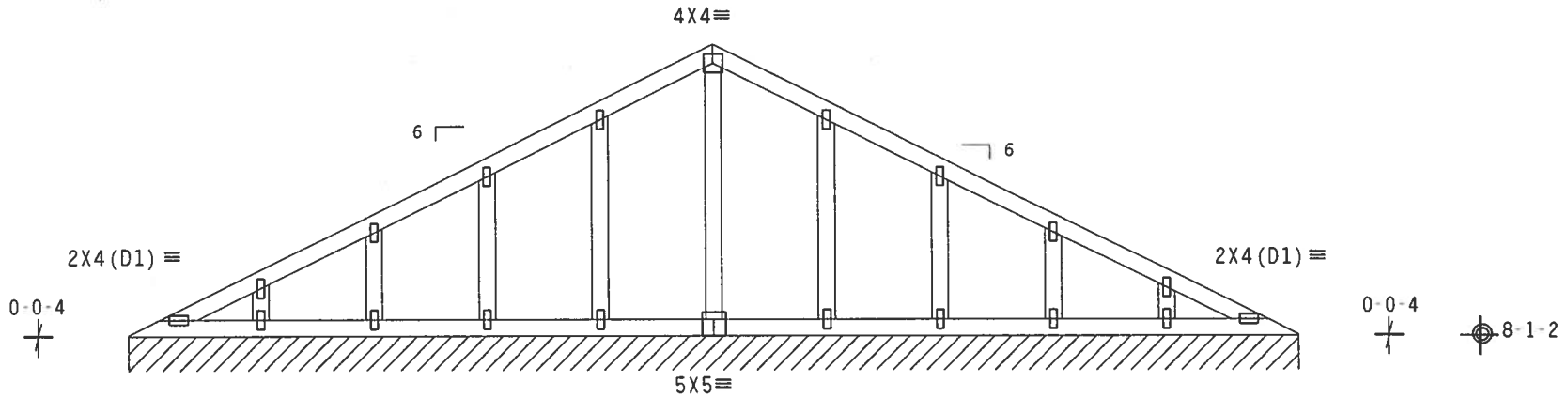
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 20.67
BC - From 30 PLF at 0.00 to 30 PLF at 20.67

Deflection meets L/360 live and L/240 total load.

110 mph wind, 10.83 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

See DWGS A11015EC1103 & GBLLETIN1103 for more requirements.



10-4-0 10-4-0

20-8-0 Over Continuous Support

R=93 PLF U=29 PLF W=20-8-0

Note: All Plates Are W1.5X4 Except As Shown.

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.3 | FL/-/4/-/E/-/- | Scale =.3125"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/19/04

TC LL	20.0 PSF	REF	R7455- 46706
TC DL	7.0 PSF	DATE	02/19/04
BC DL	5.0 PSF	DRW	HCUSR7455 04050004
BC LL	10.0 PSF	HC-ENG	JAH/MMA
TOT.LD.	42.0 PSF	SEQN-	48617
DUR.FAC.	1.25	FROM	JLA
SPACING	SEE ABOVE	JREF-	1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2 2x6 SP #1 Dense:
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

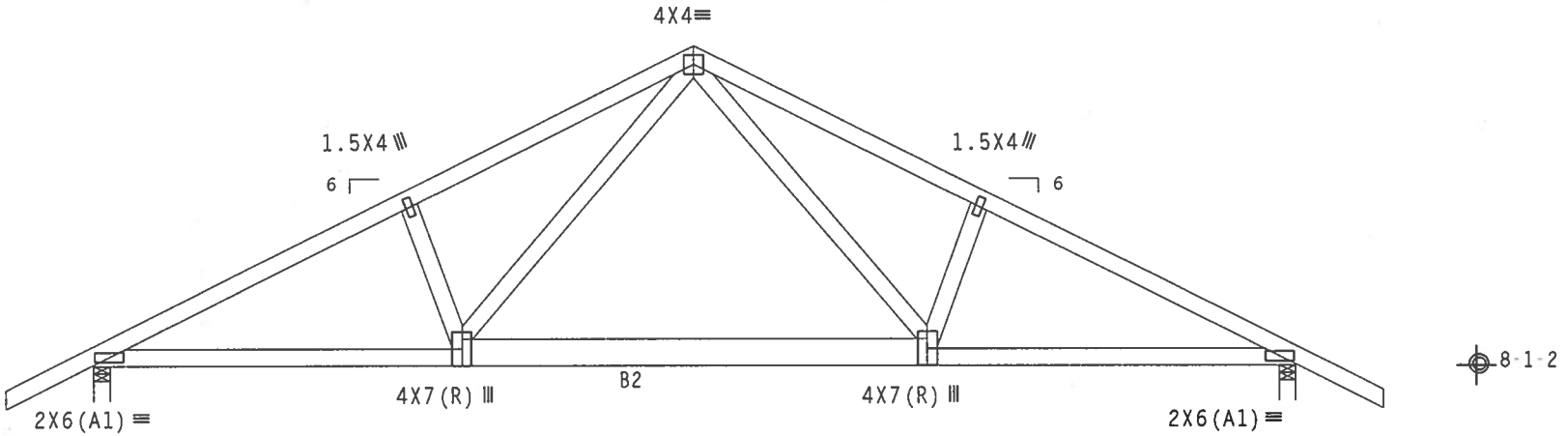
TC - From	54 PLF	at	-1.50	to	54 PLF	at 22.17
BC - From	4 PLF	at	-1.50	to	4 PLF	at 0.00
BC - From	30 PLF	at	0.00	to	30 PLF	at 6.33
BC - From	100 PLF	at	6.33	to	100 PLF	at 14.33
BC - From	30 PLF	at	14.33	to	30 PLF	at 20.67
BC - From	4 PLF	at	20.67	to	4 PLF	at 22.17

110 mph wind, 10.65 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	103	0.29	20.38

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.3125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46707
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050002
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48624
DUR.FAC.	1.25	FROM JLA
SPACING	SEE ABOVE	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2 2x6 SP #1 Dense:
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

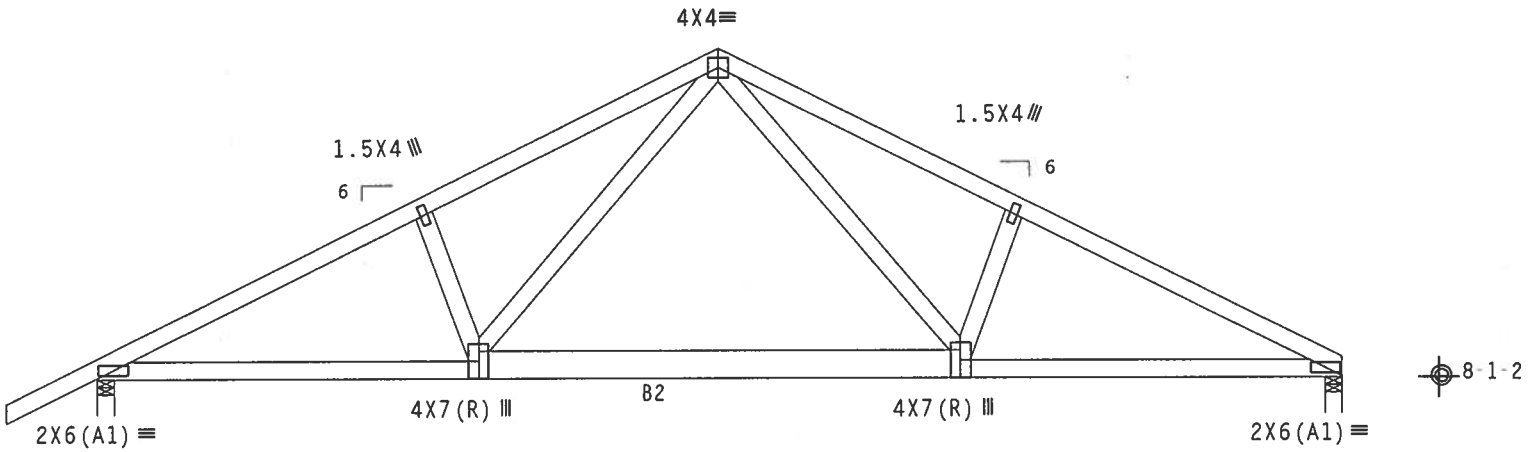
TC - From	54 PLF	at -1.50	to	54 PLF	at 20.67
BC - From	4 PLF	at -1.50	to	4 PLF	at 0.00
BC - From	30 PLF	at 0.00	to	30 PLF	at 6.33
BC - From	100 PLF	at 6.33	to	100 PLF	at 14.33
BC - From	30 PLF	at 14.33	to	30 PLF	at 20.67

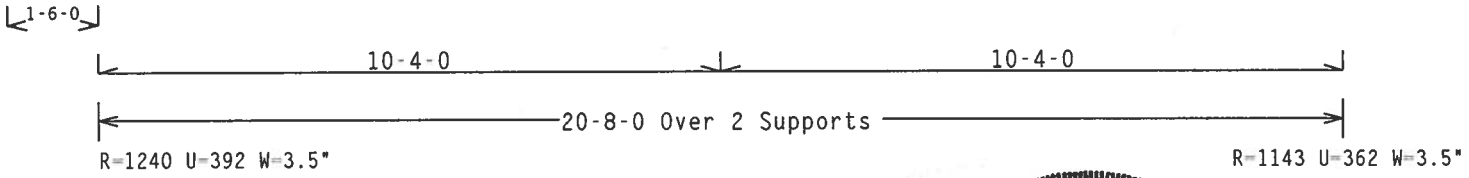
110 mph wind, 10.65 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	102	0.29	20.38

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.0.03 | FL/-/4/-/E/-/- | Scale =.3125"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
2-19-04

TC LL	20.0 PSF	REF	R7455- 46708
TC DL	7.0 PSF	DATE	02/19/04
BC DL	5.0 PSF	DRW	HCUSR7455 04050003
BC LL	10.0 PSF	HC-ENG	JAH/MMA
TOT.LD.	42.0 PSF	SEQN-	48628
DUR.FAC.	1.25	FROM	JLA
SPACING	SEE ABOVE	JREF-	1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - C24)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

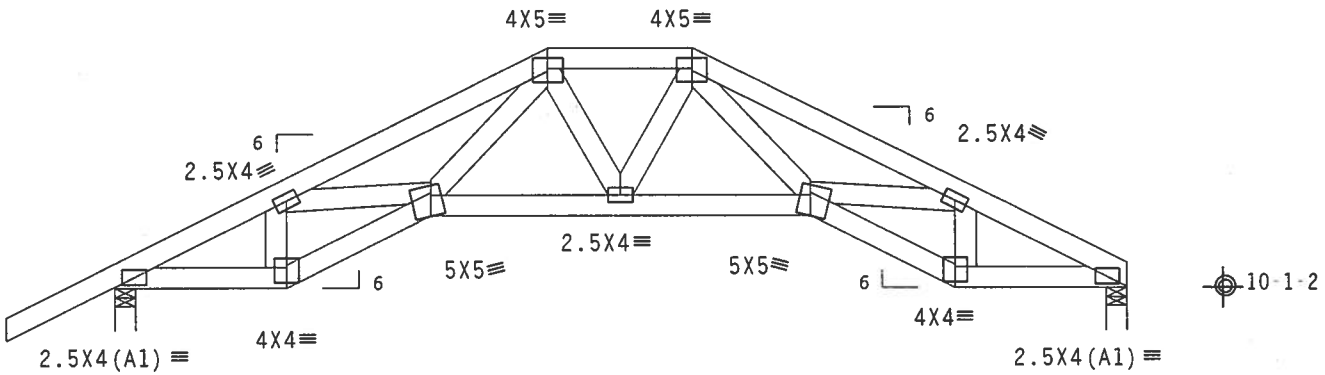
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

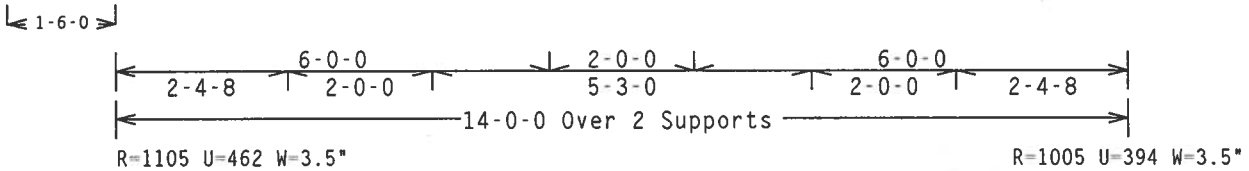
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	27	2.38	4.38
BC	63	4.38	9.63
BC	27	9.63	11.63
BC	25	11.63	13.71

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

#1 hip supports 6-0-0 jacks with no webs.

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46709
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050017
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 75929
DUR.FAC.	1.25	FROM JLA
SPACING	SEE ABOVE	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - C25)

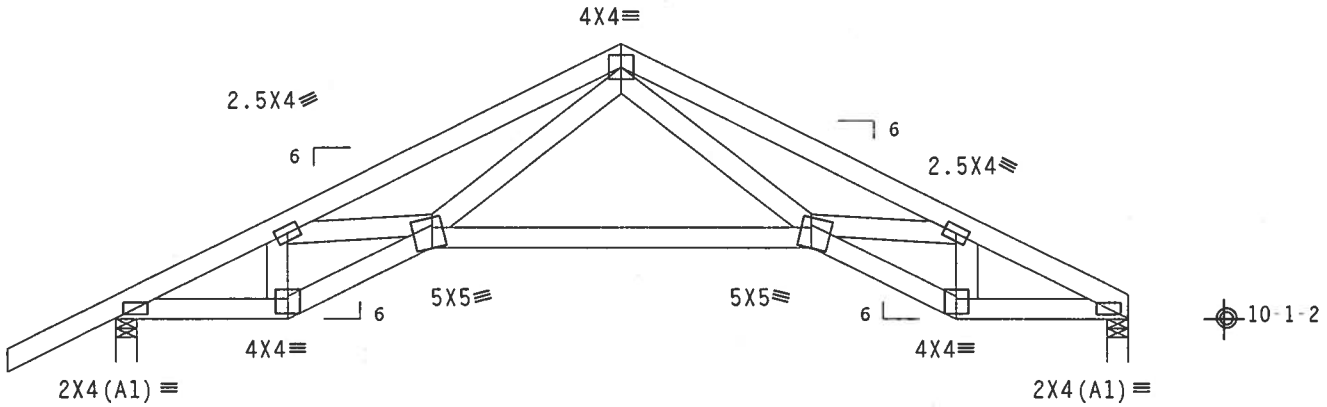
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

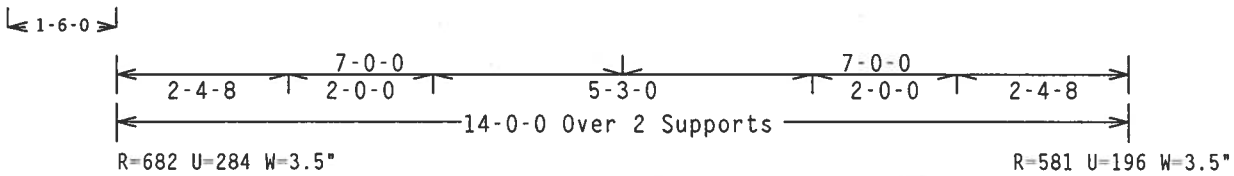
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	27	2.38	4.38
BC	63	4.38	9.63
BC	27	9.63	11.63
BC	25	11.63	13.71

110 mph wind, 11.82 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46710
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050001
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 75933
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - C26 2-PLY)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B3 2x8 SP #1 Dense:
:B4, B5 2x6 SP #1 Dense:
Webs 2x4 SP #3 :W2, W6, W10 2x4 SP #2:

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 54 PLF at -1.50 to 54 PLF at 14.00
BC - From 4 PLF at -1.50 to 4 PLF at 0.00
BC - From 30 PLF at 0.00 to 30 PLF at 14.00
BC - 3477 LB Conc. Load at 6.13
BC - 1855 LB Conc. Load at 8.06, 10.06
BC - 1857 LB Conc. Load at 12.06

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	-0.25	1.83
BC	27	1.83	3.83
BC	63	3.83	9.08
BC	27	9.08	11.08
BC	29	11.08	13.46

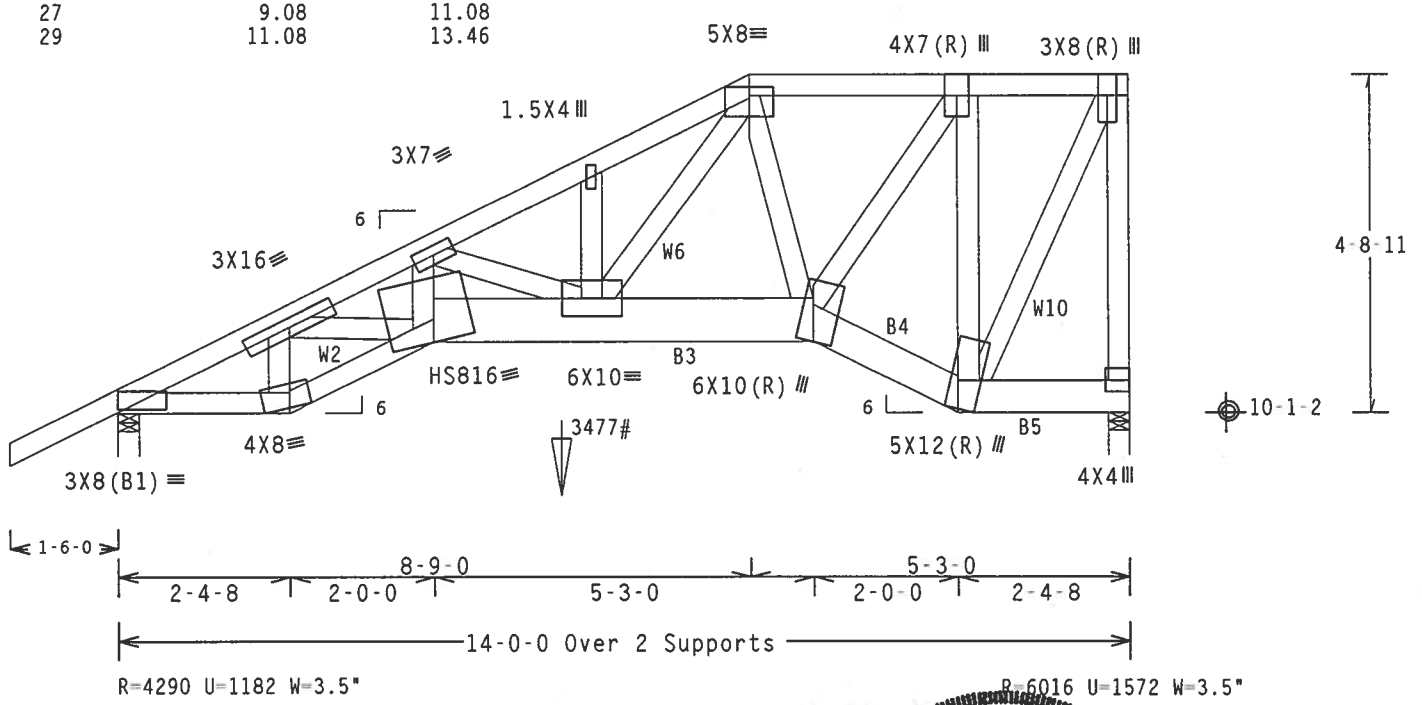
2 COMPLETE TRUSSES REQUIRED

NAILING SCHEDULE: (0.131x3.0_g_nails)
TOP CHORD: 1 ROW @ 12" o.c.
BOT CHORD: 1 ROW @ 3" o.c.
WEBS : 1 ROW @ 4" o.c.
USE EQUAL SPACING BETWEEN ROWS AND STAGGER NAILS
IN EACH ROW TO AVOID SPLITTING.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



PLT TYP. 20 Gauge HS,Wave TPI Design Crit: TPI-1995(STD) 19.0 FL/-/4/-/E/-/- Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46711
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050009
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48691
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

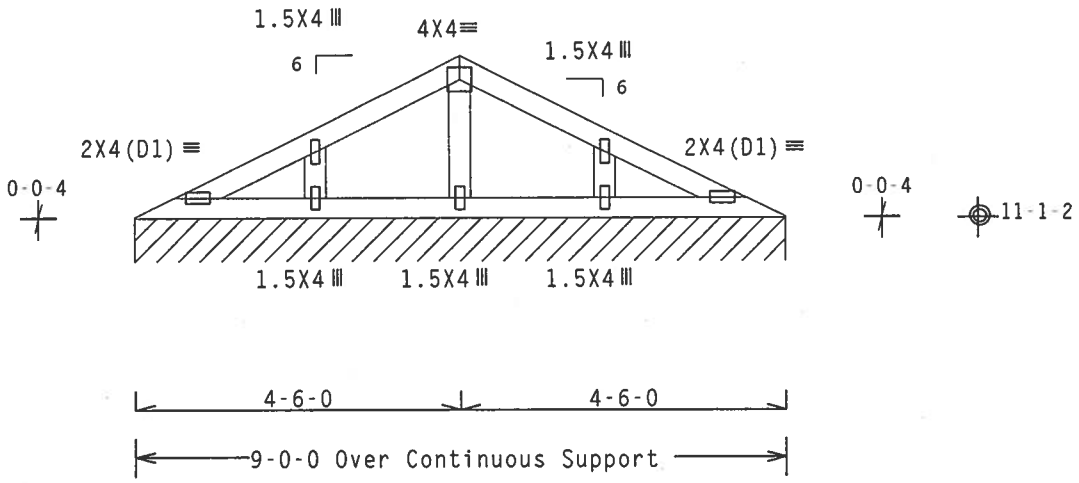
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 63 PLF at 0.00 to 63 PLF at 9.00
BC - From 30 PLF at 0.00 to 30 PLF at 9.00

Deflection meets L/360 live and L/240 total load.

110 mph wind, 12.38 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

See DWGS A11015EC1103 & GBLLETIN1103 for more requirements.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.83 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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FL Certificate of Authorization # 567

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46712
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050008
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48620
DUR.FAC.	1.25	FROM JLA
SPACING	SEE ABOVE	JREF- 1SAJ7455Z07

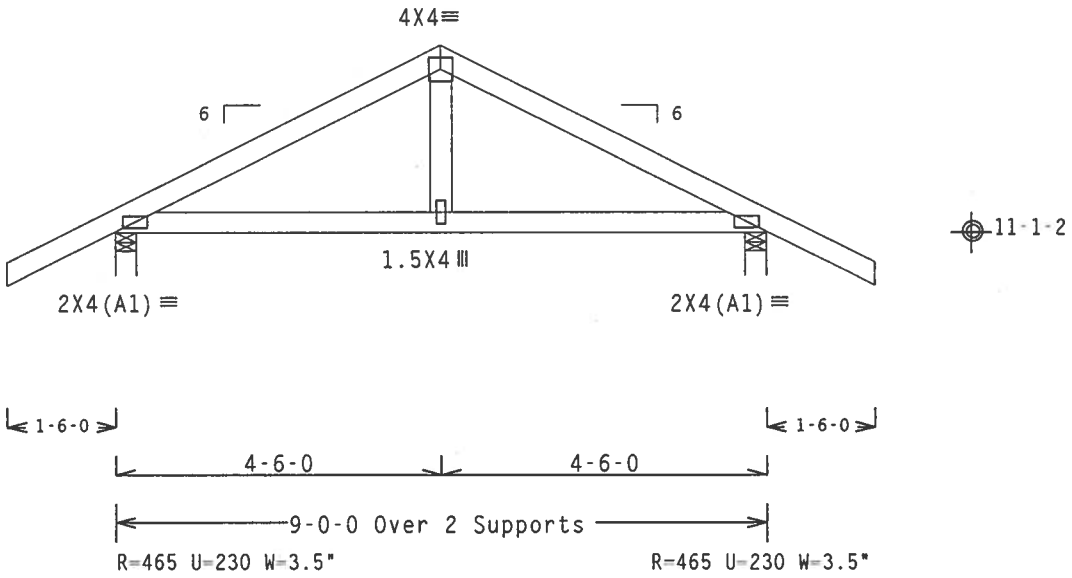
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	101	0.25	8.17

110 mph wind, 12.19 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.



11-1-2

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.[illegible] | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46713
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050005
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 75918
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

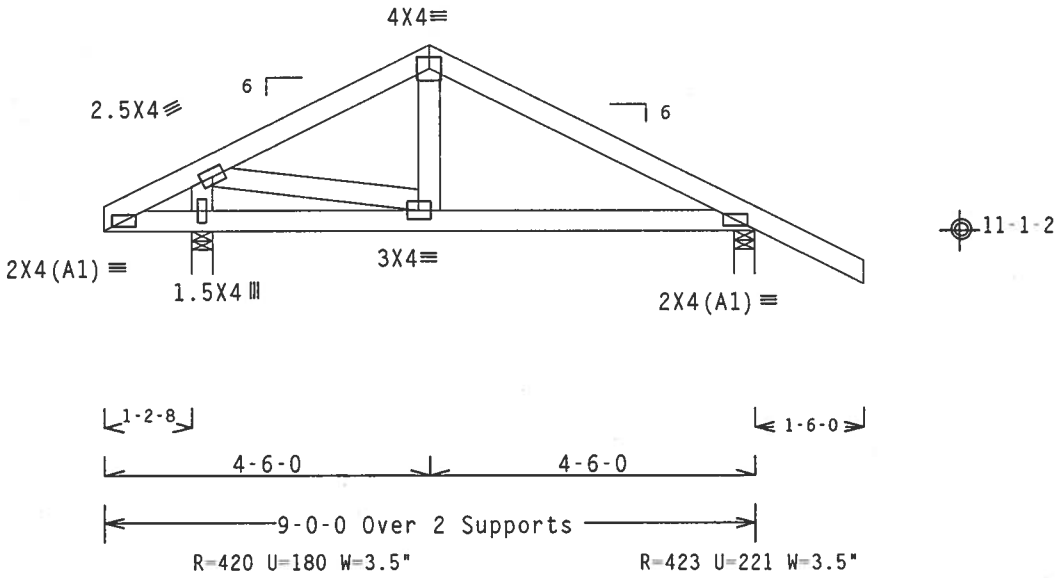
(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - D29)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 12.19 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	-0.54	8.17



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
FEB 19 04

TC LL	20.0 PSF	REF R7455- 46714
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050006
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 75922
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

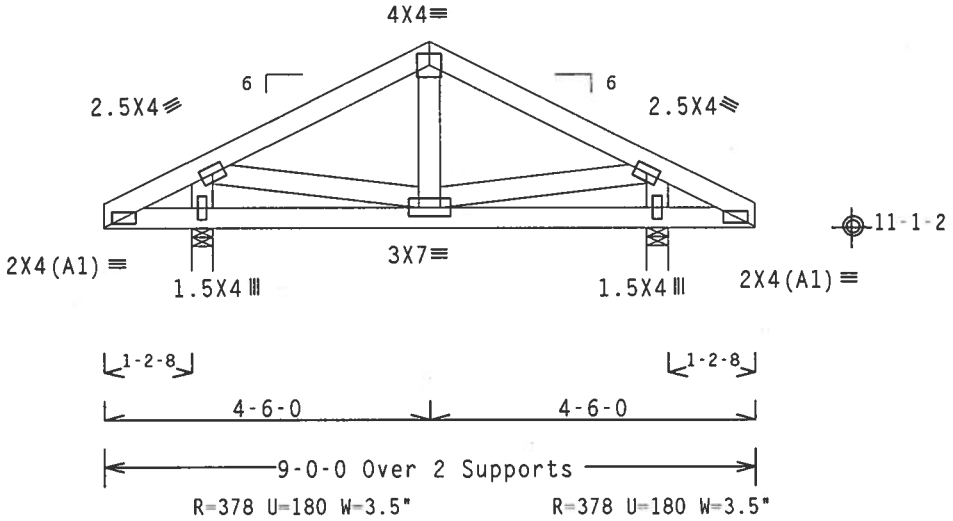
(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - D30)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 12.57 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.54	8.46



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46715
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050007
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 75925
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46716--HJ31)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

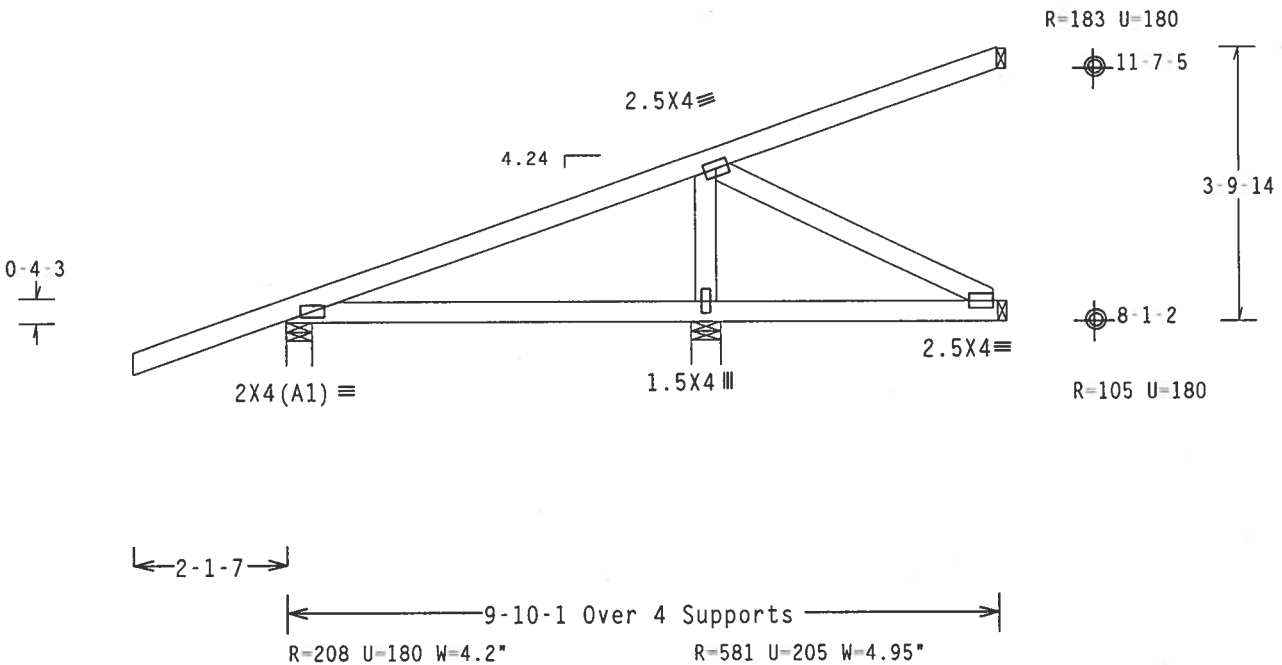
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	115	-0.25	9.30

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Hipjack supports 7-0-0 setback jacks with no webs.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46716
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050040
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50872
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - HJ32)

Top chord 2x4 SP #1 Dense
Bot chord 2x4 SP #2
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

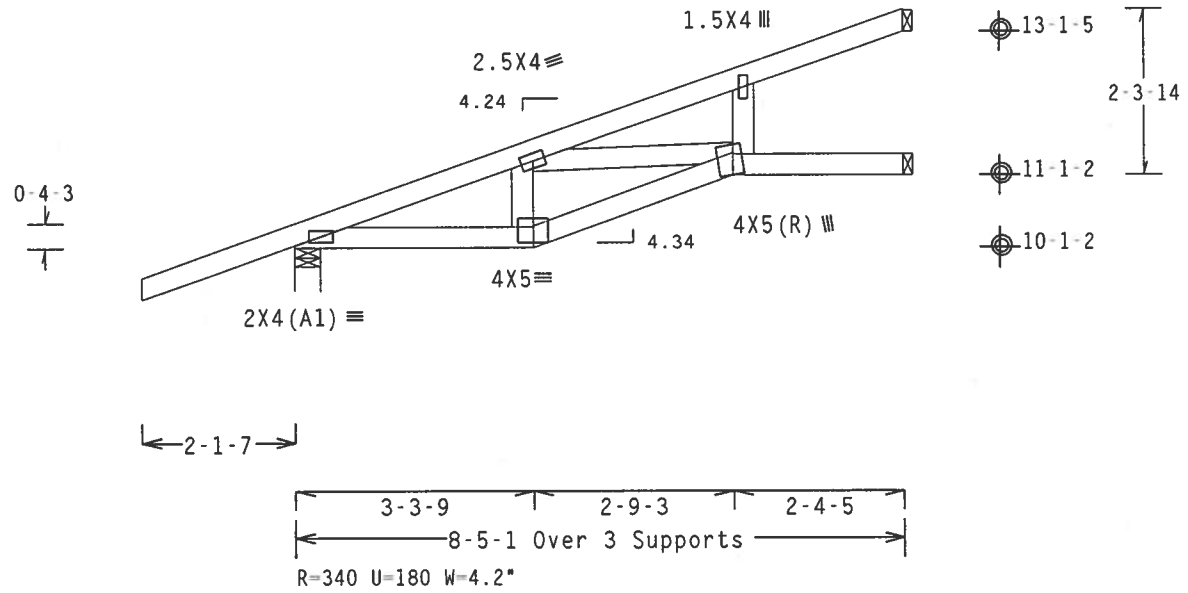
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	36	0.29	3.30
BC	36	3.30	6.11
BC	28	6.11	8.42

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Hipjack supports 6-0-0 setback jacks with no webs.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.8 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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TC LL	20.0 PSF	REF R7455- 46717
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050010
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48613
DUR.FAC.	1.25	FROM JLA
SPACING	SEE ABOVE	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - HJ33)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

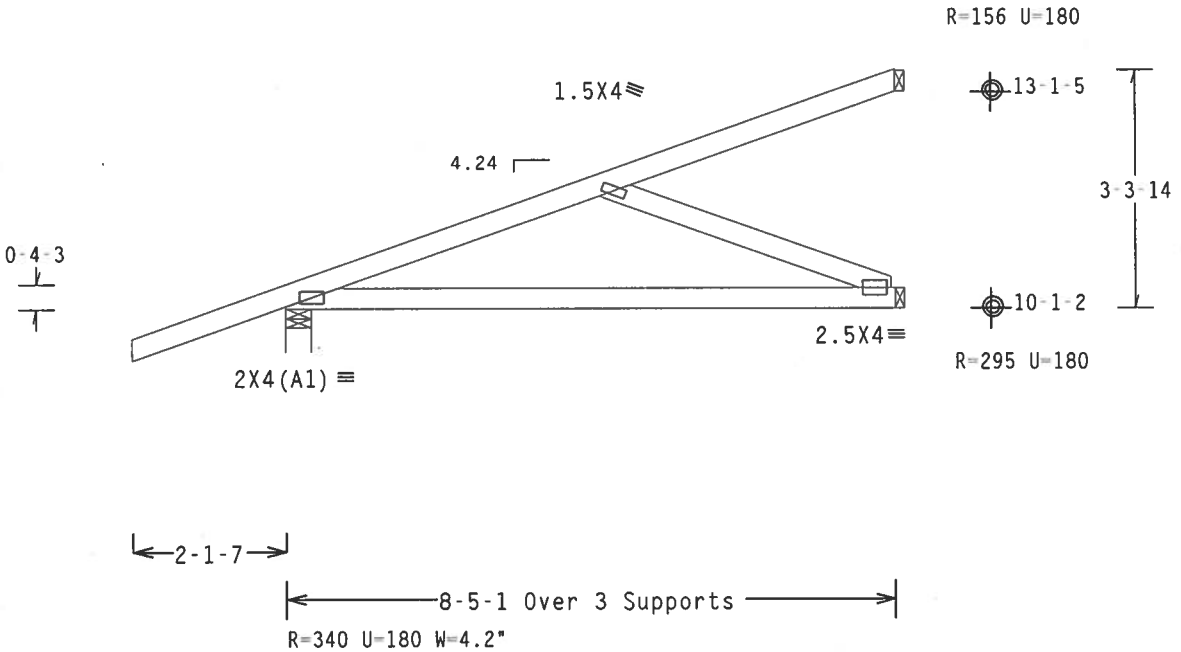
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	98	0.29	8.42

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Hipjack supports 6-0-0 setback jacks with no webs.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.8 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46718
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050024
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48639
DUR.FAC.	1.25	FROM JLA
SPACING	SEE ABOVE	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46719--EJ34)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

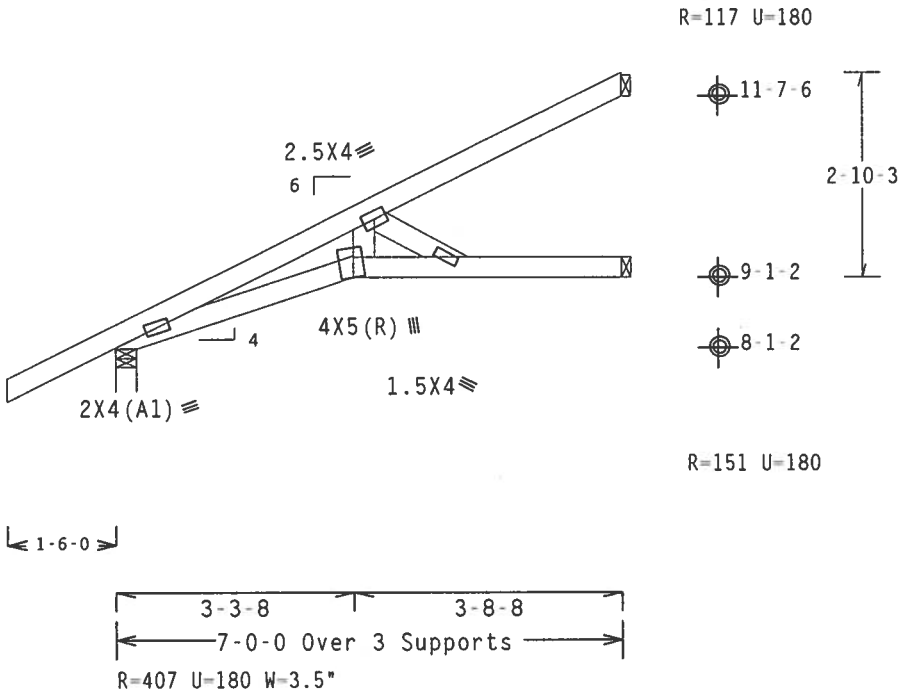
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	38	0.25	2.75
BC	45	2.75	6.46

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 9.82 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.

Shim all supports to solid bearing.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.6[illegible] | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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Haines City, FL 33844
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WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (H, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1600A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46719
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050041
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50749
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46720--EJ35)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

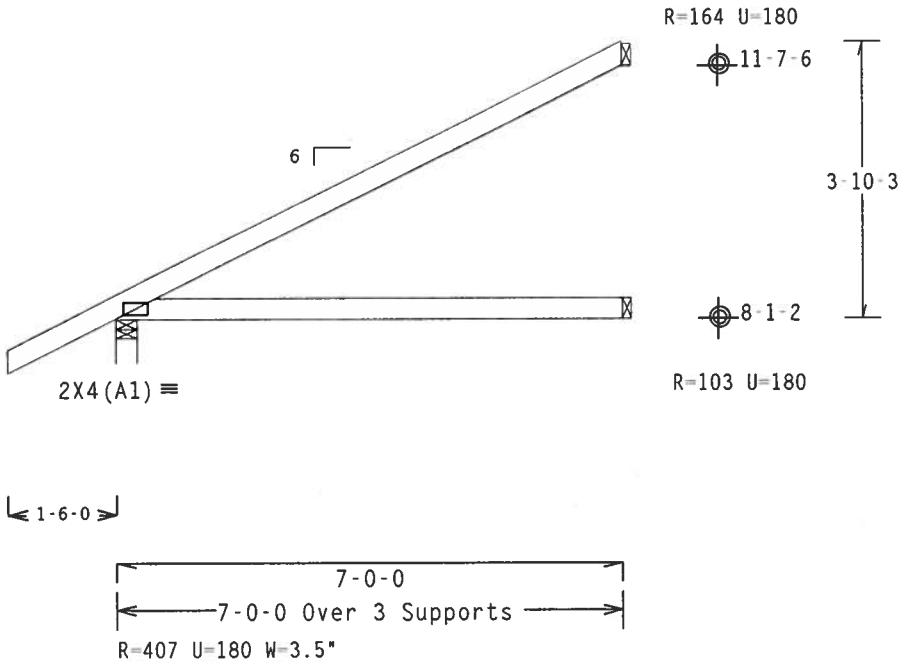
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	75	0.29	7.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 9.82 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.[illegible] | FL/-/4/-/E/-/- | Scale =.375"/Ft.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46720
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050042
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50753
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

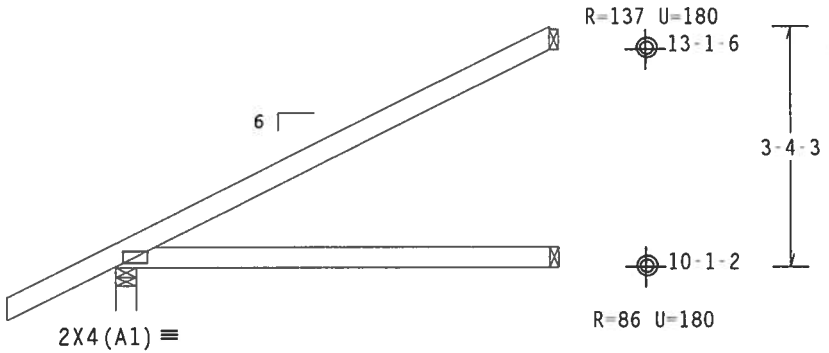
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

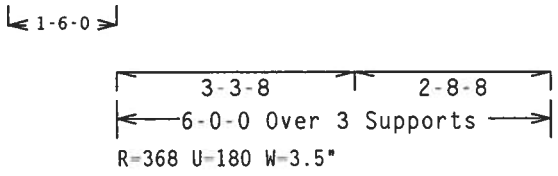
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	69	0.29	6.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.57 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.[illegible] | FL/-/4/-/E/-/- | Scale =.375"/Ft.

ALPINE

Alpine Engineered Products, Inc.
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MANUEL MARTINEZ
CERTIFICATE
No. 47182
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R7455- 46721
TC DL	7.0 PSF	DATE	02/19/04
BC DL	5.0 PSF	DRW	HCUSR7455 04050025
BC LL	10.0 PSF	HC-ENG	JAH/MMA
TOT.LD.	42.0 PSF	SEQN-	48580
DUR.FAC.	1.25	FROM	JLA
SPACING	24.0"	JREF-	1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - EJ37)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

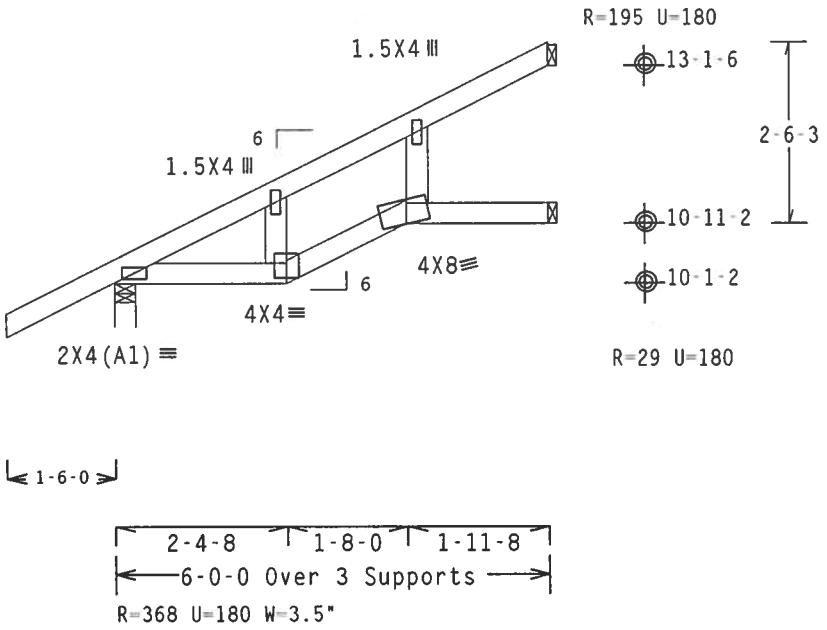
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	23	2.38	4.09
BC	23	4.09	6.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.57 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

ALPINE
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46722
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050019
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48584
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - EJ38)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

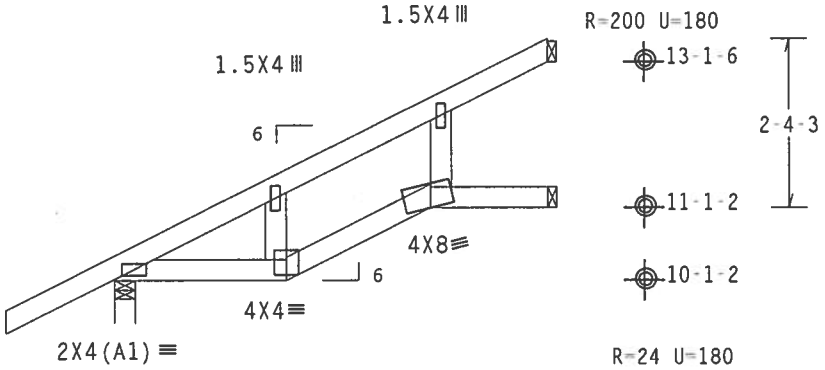
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

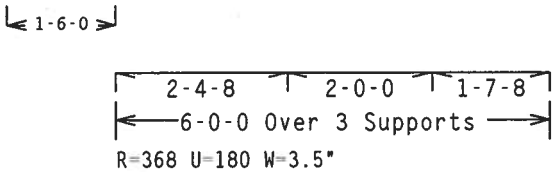
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	28	2.38	4.43
BC	19	4.43	6.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.57 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.3 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46723
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050011
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48587
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46724--CJ39)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

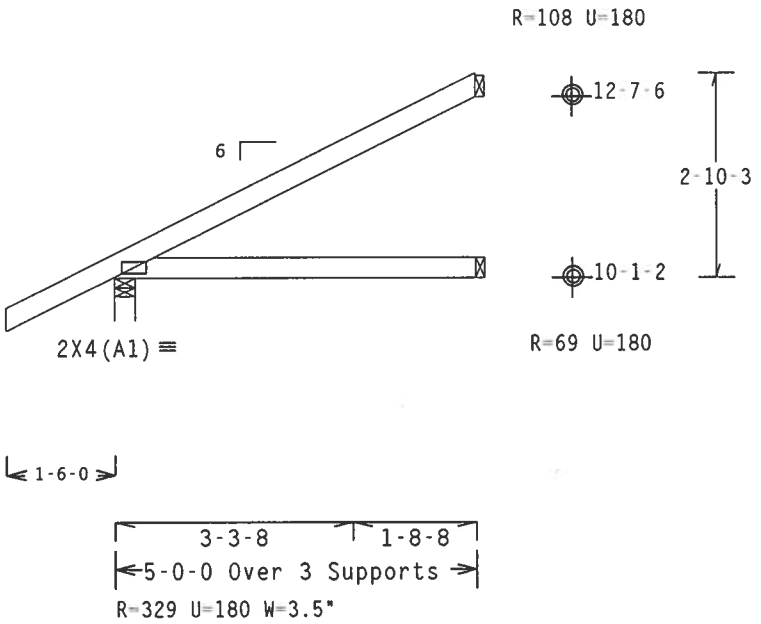
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	57	0.29	5.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.6 | FT. | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46724
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050043
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50760
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46725--CJ40)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

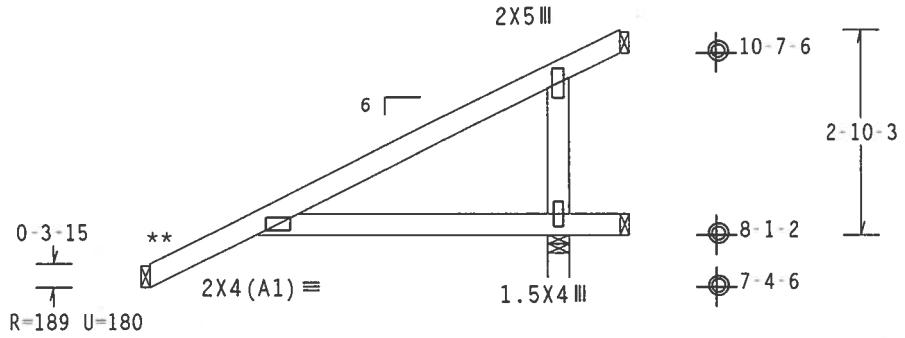
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	58	-0.36	4.46

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

**SUBFACIA BEAM. DESIGN OF BEAM AND CONNECTIONS TO BE FURNISHED BY OTHERS.

110 mph wind, 9.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/180 live and L/120 total load.



R=817 U=450 W=3.5"

PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.6[illegible] | FL/-/4/-/E/-/- | Scale =.375"/Ft.

ALPINE
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Haines City, FL 33844
FL Certificate of Authorization # 567

MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46725
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050044
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50768
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - CJ41)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

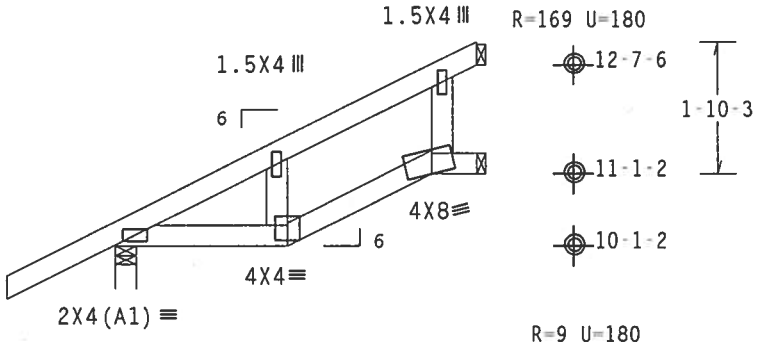
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

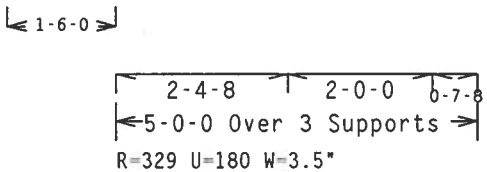
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	28	2.38	4.43
BC	7	4.43	5.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.32 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46726
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050018
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48591
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094 -- Lot 17 Arbor Greene, Columbia County - Lot 17 Arbor Greene @ Emerald Lakes - CJ42)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

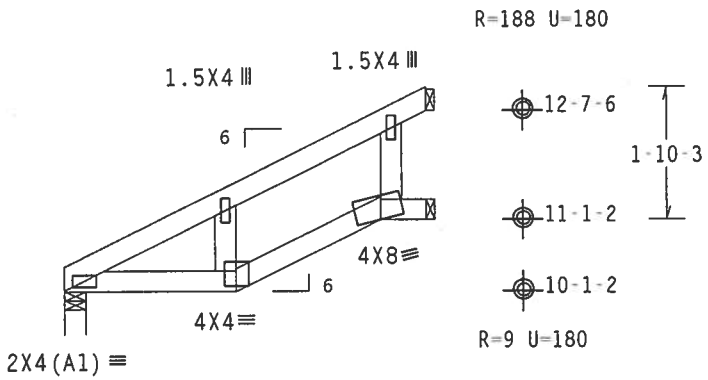
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

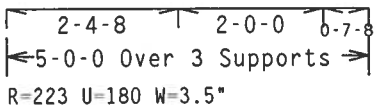
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	28	2.38	4.43
BC	7	4.43	5.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.69 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/360 live and L/240 total load.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46727
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050016
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48595
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46728--CJ43)

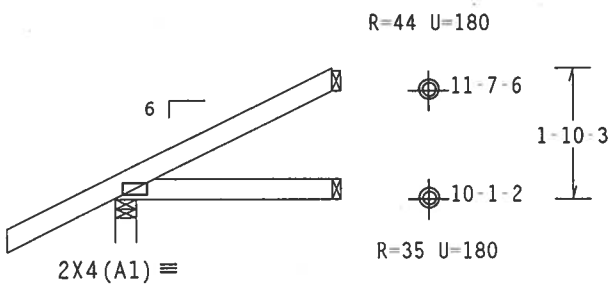
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

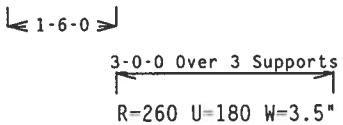
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	33	0.29	3.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 10.82 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC | 19.83 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

ALPINE
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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46728
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050045
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50853
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46729--CJ44)

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

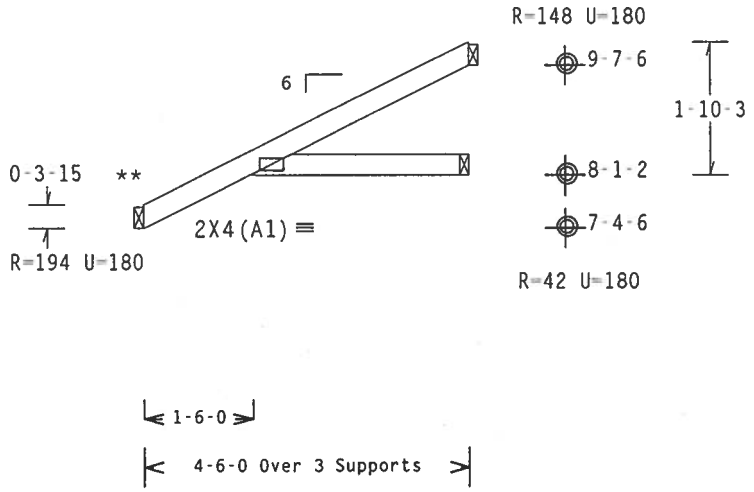
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	34	-0.36	2.46

**SUBFACIA BEAM. DESIGN OF BEAM AND CONNECTIONS TO BE FURNISHED BY OTHERS.

110 mph wind, 8.82 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Deflection meets L/180 live and L/120 total load.

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC 19.3 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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TC LL	20.0 PSF	REF R7455- 46729
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050046
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 50865
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

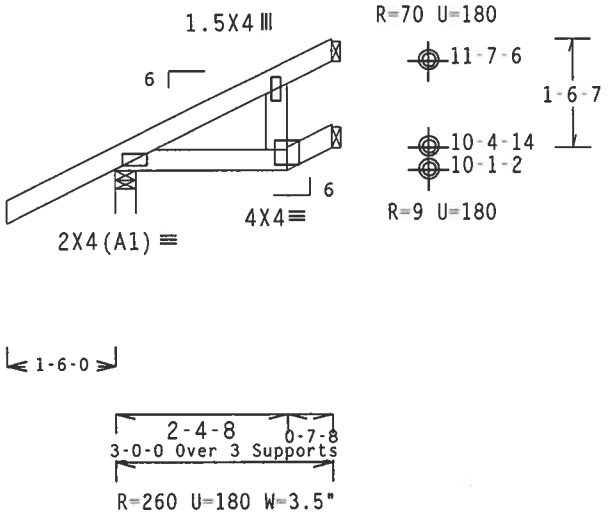
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	8	2.38	3.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 10.82 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Shim all supports to solid bearing.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6.3 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
FEB 19 '04

TC LL	20.0 PSF	REF R7455- 46730
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050012
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48601
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3

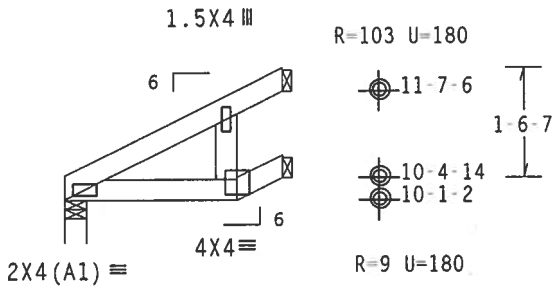
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

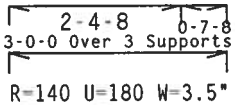
CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	25	0.29	2.38
BC	8	2.38	3.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 11.19 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

Shim all supports to solid bearing.





PLT TYP. Wave TPI | Design Crit: TPI-1995(STD) | 19.6 | FL/-/4/-/E/-/- | Scale =.375"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46731
TC DL	7.0 PSF	DATE 02/19/04
BC DL	5.0 PSF	DRW HCUSR7455 04050015
BC LL	10.0 PSF	HC-ENG JAH/MMA
TOT.LD.	42.0 PSF	SEQN- 48598
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

(P4-0094-Lot 17 Arbor Greene, Columbia County -- Lot 17 Arbor Greene @ Emerald La - 46732--CJ47)

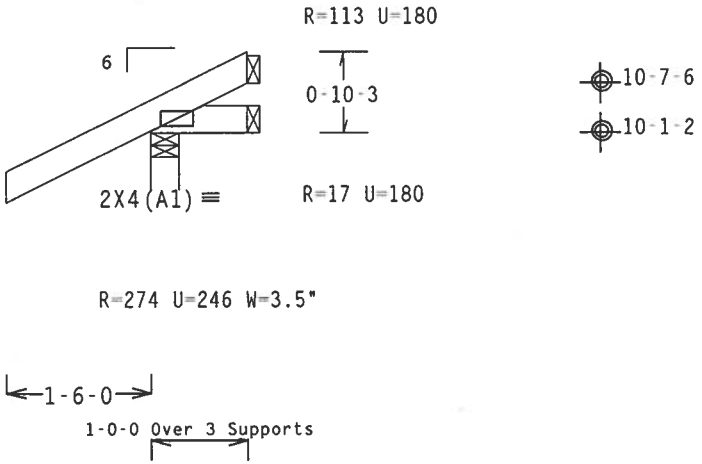
Top chord 2x4 SP #2
Bot chord 2x4 SP #2

110 mph wind, 10.32 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	9	0.29	1.00

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.



PLT TYP. Wave TPI | Design Crit: TPI-1995(STD)/FLBC 19 | QTY: | FL/-/4/-/E/-/-

Scale =.5"/Ft.

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MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/19/04

TC LL	20.0 PSF	REF	R7455- 46732
TC DL	7.0 PSF	DATE	02/19/04
BC DL	5.0 PSF	DRW	HCUSR7455 04050047
BC LL	10.0 PSF	HC-ENG	JAH/MMA
TOT.LD.	42.0 PSF	SEQN-	50856
DUR.FAC.	1.25	FROM	JLA
SPACING	24.0"	JREF-	1SAJ7455Z07

Top chord 2x4 SP #2
Bot chord 2x4 SP #2

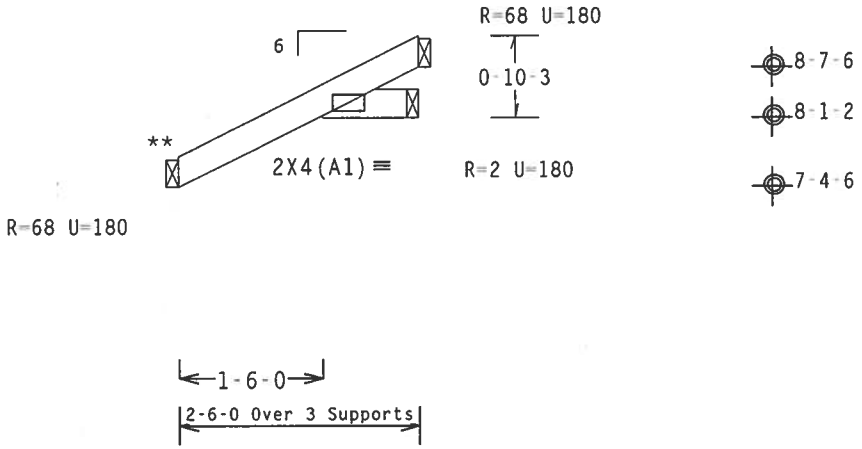
IN LIEU OF STRUCTURAL PANELS OR RIGID CEILING USE PURLINS:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	10	-0.36	0.46

PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT T.C.
PROVIDE (3) 16d COMMON (0.162"X3.5") NAILS, TOE-NAILED AT B.C.

110 mph wind, 8.32 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=4.0 psf, wind BC DL=3.0 psf.

**SUBFACIA BEAM. DESIGN OF BEAM AND CONNECTIONS TO BE FURNISHED BY OTHERS.



PLT TYP. Wave TPI Design Crit: TPI-1995(STD)/FLBC 19.3 FL/-/4/-/E/-/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (H, K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

MANUEL MARTINEZ CERTIFICATE No. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R7455- 46733
TC DL	7.0 PSF	DATE 02/19/04
BC DL	0.0 PSF	DRW HCUSR7455 04050048
BC LL	0.0 PSF	HC-ENG JAH/MMA
TOT.LD.	27.0 PSF	SEQN- 50861
DUR.FAC.	1.25	FROM JLA
SPACING	24.0"	JREF- 1SAJ7455Z07

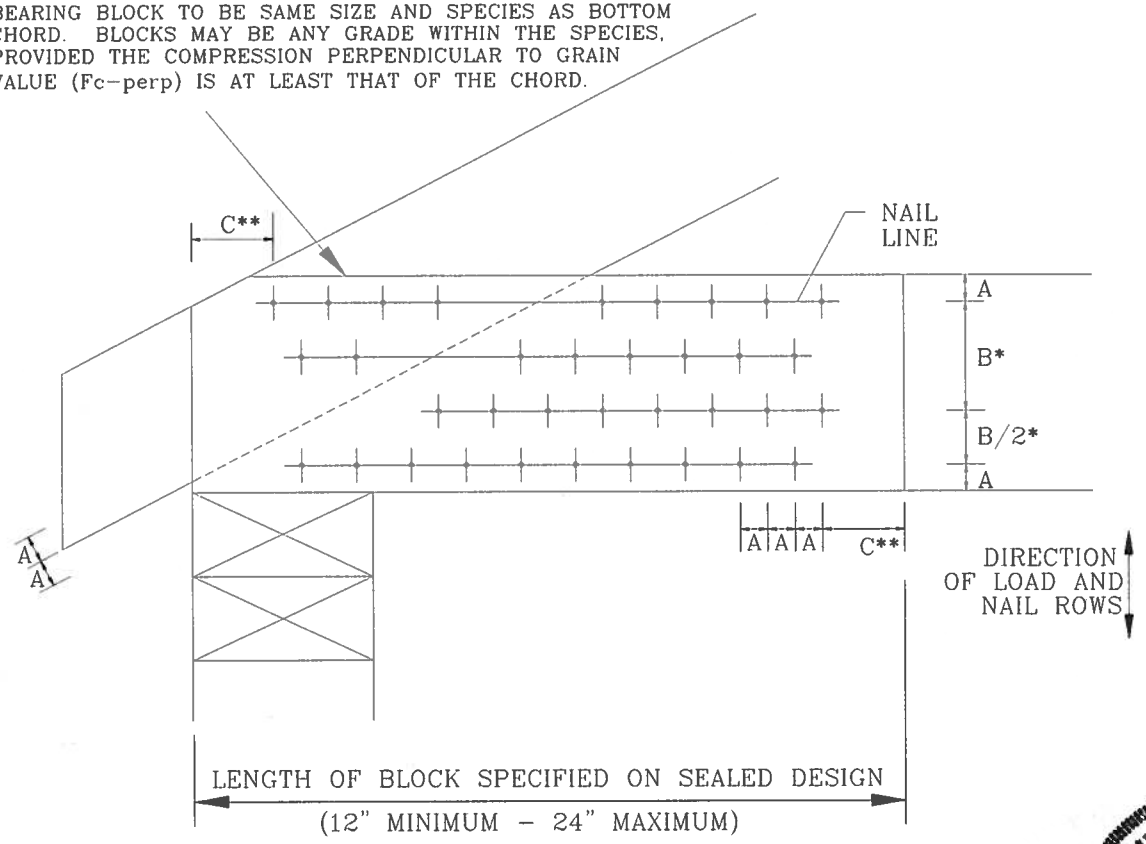
BEARING BLOCK NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

A – EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
B – SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
C – END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
- • SPACING MAY BE REDUCED BY 50%
- •• SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (Fc–perp) IS AT LEAST THAT OF THE CHORD.



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE 2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X2.5")	3	6	9	12	15
10d BOX (0.128"X3")	3	5	7	10	12
12d BOX (0.128"X3.25")	3	5	7	10	12
16d BOX (0.135"X3.5")	3	5	7	10	12
20d BOX (0.148"X4")	2	4	5	6	8
8d COMMON (0.131"X2.5")	3	5	7	10	12
10d COMMON (0.148"X3")	2	4	6	8	10
12d COMMON (0.148"X3.25")	2	4	6	8	10
16d COMMON (0.162"X3.5")	2	4	6	8	10
0.120"X2.5" GUN	3	6	8	11	14
0.131"X2.5" GUN	3	5	7	10	12
0.120"X3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES A	B*	C**
8d BOX (0.113"X2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X3")	7/8"	1 5/8"	2"
12d BOX (0.128"X3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"X3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"X3")	1"	1 7/8"	2 1/4"
12d COMMON (0.148"X3.25")	1"	1 7/8"	2 1/4"
16d COMMON (0.162"X3.5")	1'	2"	2 1/2"
0.120"X2.5" GUN	3/4"	1 1/2"	1 7/8"
0.131"X2.5" GUN	7/8"	1 5/8"	2"
0.120"X3.0" GUN	3/4"	1 1/2"	1 7/8"
[illegible]3.0" GUN	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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MANUEL MARTINEZ CERTIFICATE NO. 47182 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/19/2004

REF	BEARING BLOCK
DATE	11/26/03
DRWG	CNBRGBLK1103
–ENG	SJP/KAR

SUPPORT REPORT — JOB DESCRIPTION: P4-0094
WIND CODE: ASCE 7-98 — WIND MPH: 110 — BLDG TYPE: CLOSED

TRUSS DESC	TRUSS SPAN-ft	SUPPORT SIZE-in.	SUPPORT TYPE	BEARING XLOC-ft.	BEARING YLOC-ft.	REACT. MAX.+#	REACT. MAX.-#	MAX WIND UPLFT.-#
A01 2-PL	55.708	3.500	WALL	0.000	9.094	488		-180
A01 2-PL	55.708	3.500	WALL	14.292	9.094	5097		-1228
A01 2-PL	55.708	3.500	WALL	45.333	8.094	3267		-902
A01 2-PL	55.708	3.500	WALL	51.417	8.094	526		-180
A02	55.708	3.500	WALL	0.000	9.094	1631		-415
A02	55.708	3.500	WALL	45.333	8.094	4403		-1116
A02	55.708	3.500	WALL	51.417	8.094	668		-180
A03	55.708	3.500	WALL	0.000	9.094	1835		-470
A03	55.708	3.500	WALL	45.333	8.094	2675		-654
A03	55.708	3.500	WALL	51.417	8.094	490		-328
A04	55.708	3.500	WALL	0.000	9.094	1622		-420
A04	55.708	3.500	WALL	42.417	8.094	3093		-727
A04	55.708	3.500	WALL	51.417	8.094	485		-246
A05	55.708	3.500	WALL	0.000	9.094	1670		-429
A05	55.708	3.500	WALL	42.417	8.094	2811		-663
A05	55.708	3.500	WALL	51.417	8.094	466		-300
A06	51.708	3.500	WALL	0.000	9.094	1740		-434
A06	51.708	3.500	WALL	42.417	10.094	2427		-586
A06	51.708	3.500	WALL	51.417	10.094	264		-180
A07	51.708	3.500	WALL	0.000	9.094	1688		-421
A07	51.708	3.500	WALL	42.417	10.094	2775		-667
A07	51.708	3.500	WALL	51.417	10.094	198		-180
A08	57.667	3.500	WALL	0.000	10.094	2008		-532
A08	57.667	3.500	WALL	48.375	10.094	3228		-794
A08	57.667	3.500	WALL	57.375	10.094	204		-180
A09	57.667	3.500	WALL	0.000	10.094	2016		-533
A09	57.667	3.500	WALL	48.375	10.094	3178		-781
A09	57.667	3.500	WALL	57.375	10.094	216		-180
A10	57.667	3.500	WALL	0.000	10.094	2007		-534
A10	57.667	3.500	WALL	48.375	10.094	3236		-794
A10	57.667	3.500	WALL	57.375	10.094	200		-180
A11	57.667	3.500	WALL	0.000	10.094	1990		-531
A11	57.667	3.500	WALL	48.375	10.094	3400		-837
A11	57.667	3.500	WALL	57.375	10.094	211		-180
A12	57.667	3.500	WALL	0.000	10.094	1968		-526
A12	57.667	3.500	WALL	48.375	10.094	3543		-874
A12	57.667	3.500	WALL	57.375	10.094	270		-180
A13	57.667	3.500	WALL	0.000	10.094	1803		-440
A13	57.667	3.500	WALL	48.375	10.094	3978		-982
A13	57.667	3.500	WALL	57.375	10.094	323		-180
A14	51.500	3.500	WALL	0.000	10.094	1704		-408
A14	51.500	3.500	WALL	42.208	10.094	2578		-646

A14	51.500	3.500	WALL	51.208	10.094	1[illegible]	[illegible]
A15	51.500	3.500	WALL	0.000	10.094	1702	-411
A15	51.500	3.500	WALL	42.208	10.094	2630	-651
A15	51.500	3.500	WALL	51.208	10.094	182	-180
A16	51.500	3.500	WALL	0.000	10.094	2151	-521
A16	51.500	3.500	WALL	51.208	10.094	2175	-525
A17	44.500	3.500	WALL	0.000	10.094	1881	-448
A17	44.500	3.000	HUS26	44.250	10.094	1857	-463
A18	44.500	3.500	WALL	0.000	10.094	1970	-518
A18	44.500	3.000	HUS26	44.250	10.906	1855	-465
A19	44.500	3.500	WALL	0.000	10.094	1970	-521
A19	44.500	3.000	HUS26	44.250	11.094	1855	-466
A20 2-PL	44.500	3.500	WALL	0.000	10.094	3490	-862
A20 2-PL	44.500	3.000	HGUS28-2	44.250	11.094	3477	-834
B21	20.667	248.000	WALL	0.000	8.094	1927	-609
B22	20.667	3.500	WALL	0.000	8.094	1235	-391
B22	20.667	3.500	WALL	20.375	8.094	1235	-391
B23	20.667	3.500	WALL	0.000	8.094	1240	-392
B23	20.667	3.500	WALL	20.375	8.094	1143	-362
C24	14.000	3.500	WALL	0.000	10.094	1105	-462
C24	14.000	3.500	WALL	13.708	10.094	1005	-394
C25	14.000	3.500	WALL	0.000	10.094	682	-284
C25	14.000	3.500	WALL	13.708	10.094	581	-196
C26 2-PL	14.000	3.500	WALL	0.000	10.094	4290	-1182
C26 2-PL	14.000	3.500	WALL	13.708	10.094	6016	-1572
D27	9.000	108.000	WALL	0.000	11.094	839	-334
D28	9.000	3.500	WALL	0.000	11.094	465	-230
D28	9.000	3.500	WALL	8.708	11.094	465	-230
D29	9.000	3.500	WALL	1.208	11.094	420	-180
D29	9.000	3.500	WALL	8.708	11.094	423	-221
D30	9.000	3.500	WALL	1.208	11.094	378	-180
D30	9.000	3.500	WALL	7.500	11.094	378	-180
HJ31	9.837	4.200	WALL	0.000	8.094	208	-180
HJ31	9.837	4.950	WALL	5.594	8.094	581	-205
HJ31	9.837	1.500	NAILED	9.837	11.609	183	-180
HJ31	9.837	1.500	NAILED	9.837	8.094	105	-180
HJ32	8.423	4.200	WALL	0.000	10.094	340	-180
HJ32	8.423	1.500	NAILED	8.423	13.109	387	-188
HJ32	8.423	1.500	NAILED	8.423	11.094	64	-180
HJ33	8.423	4.200	WALL	0.000	10.094	340	-180
HJ33	8.423	1.500	NAILED	8.423	13.109	156	-180
HJ33	8.423	1.500	NAILED	8.423	10.094	295	-180
EJ34	7.000	3.500	WALL	0.000	8.094	407	-180

EJ34	7.000	1.500	NAILED	7.000	11.615	117	-180
EJ35	7.000	3.500	WALL	0.000	8.094	407	-180
EJ35	7.000	1.500	NAILED	7.000	8.094	103	-180
EJ35	7.000	1.500	NAILED	7.000	11.615	164	-180
EJ36	6.000	3.500	WALL	0.000	10.094	368	-180
EJ36	6.000	1.500	NAILED	6.000	10.094	86	-180
EJ36	6.000	1.500	NAILED	6.000	13.115	137	-180
EJ37	6.000	3.500	WALL	0.000	10.094	368	-180
EJ37	6.000	1.500	NAILED	6.000	10.927	29	-180
EJ37	6.000	1.500	NAILED	6.000	13.115	195	-180
EJ38	6.000	3.500	WALL	0.000	10.094	368	-180
EJ38	6.000	1.500	NAILED	6.000	11.094	24	-180
EJ38	6.000	1.500	NAILED	6.000	13.115	200	-180
CJ39	5.000	3.500	WALL	0.000	10.094	329	-180
CJ39	5.000	1.500	NAILED	5.000	10.094	69	-180
CJ39	5.000	1.500	NAILED	5.000	12.615	108	-180
CJ40	5.000	1.500	NAILED	-1.625	7.365	189	-180
CJ40	5.000	3.500	WALL	4.000	8.094	817	-450
CJ40	5.000	1.500	NAILED	5.000	10.615	266	-180
CJ40	5.000	1.500	NAILED	5.000	8.094	85	-180
CJ41	5.000	3.500	WALL	0.000	10.094	329	-180
CJ41	5.000	1.500	NAILED	5.000	11.094	9	-180
CJ41	5.000	1.500	NAILED	5.000	12.615	169	-180
CJ42	5.000	3.500	WALL	0.000	10.094	223	-180
CJ42	5.000	1.500	NAILED	5.000	11.094	9	-180
CJ42	5.000	1.500	NAILED	5.000	12.615	188	-180
CJ43	3.000	3.500	WALL	0.000	10.094	260	-180
CJ43	3.000	1.500	NAILED	3.000	10.094	35	-180
CJ43	3.000	1.500	NAILED	3.000	11.615	44	-180
CJ44	3.000	1.500	NAILED	-1.625	7.365	194	-180
CJ44	3.000	1.500	NAILED	2.875	8.094	42	-180
CJ44	3.000	1.500	NAILED	3.000	9.615	148	-180
CJ45	3.000	3.500	WALL	0.000	10.094	260	-180
CJ45	3.000	1.500	NAILED	3.000	10.406	9	-180
CJ45	3.000	1.500	NAILED	3.000	11.615	70	-180
CJ46	3.000	3.500	WALL	0.000	10.094	140	-180
CJ46	3.000	1.500	NAILED	3.000	10.406	9	-180
CJ46	3.000	1.500	NAILED	3.000	11.615	103	-180
CJ47	1.000	3.500	WALL	0.000	10.094	274	-246
CJ47	1.000	1.500	NAILED	1.000	10.094	36	-180
CJ47	1.000	1.500	NAILED	1.000	10.615	256	-180
CJ48	1.000	1.500	NAILED	-1.625	7.365	68	-180
CJ48	1.000	1.500	NAILED	0.875	8.094	2	-180
CJ48	1.000	1.500	NAILED	1.000	8.615	68	-180

HANGER SUMMARY FOR: P4-0094

Quantity	Hanger

3	HUS26
1	HGUS28-2

HANGER DETAIL FOR: P4-0094

Quantity	Hanger	
3	HUS26	Total
	{1} A17	
	{1} A18	
	{1} A19	
1	HGUS28-2	Total
	{1} A20 2-PLY	

LUS/MUS/HUS/HHUS/HGUS *DOUBLE SHEAR JOIST HANGERS*

SIMPSON Strong-Tie CONNECTORS

See Hanger tables on page 103. See Hanger Options on page 147 for hanger modifications, which may result in reduced loads.

NEW! MUS completes the Simpson Strong-Tie line of face mount truss to truss connectors. The MUS has increased load capacity and bearing compared to LUS connectors for medium load truss applications. Double shear nailing provides greater strength with lower installed cost.

These hangers have the highest loads of any face mount hangers!

All hangers in this series have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation, and the use of common nails for all connections. (Do not bend or remove tabs)

MATERIAL: See tables on page 103.

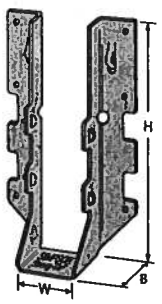
FINISH: Galvanized. Some products available in stainless steel or Z-MAX; see Corrosion-Resistance, page 7.

INSTALLATION • Use all specified fasteners. See General Notes.

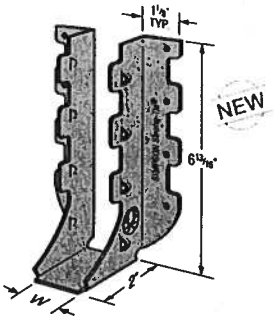
- Nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.
- 16d sinkers (9 gauge x 3¼") may be used where 10d commons are specified with no reduction in load. Where 16d commons are specified, 10d commons or 16d sinkers (9 gauge x 3¼") may be used at 0.84 of the table load.
- With 3x carrying members, use 16d x 2½" nails into the header and 16d commons into the joist with no load reduction. With 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the load to 0.64 of the table value.

OPTIONS: • LUS and MUS hangers cannot be modified.

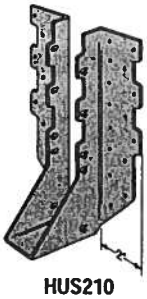
- HUS hangers available with the header flanges turned in for 2-2x (3⅛") and 4x only, with no load reduction. See HUSC Concealed Flange illustration.
- Concealed flanges are not available for HGUS and HHUS.
- See Hanger Options, page 147, for sloped and/or skewed HHUS models.
- Other sizes available; consult your Simpson representative.

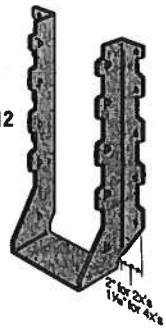


LUS28



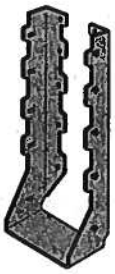
MUS28


HUS210 (HUS26, HUS28, and HHUS similar)



HUS412

HGUS28-2


HUSC Concealed Flanges *(not available for HHUS, HGUS and HUS2x)*


Double Shear Nailing Side View


Dome Double Shear Nailing prevents tabs breaking off (available on some models)

U.S. Patent 5,603,580


Double Shear Nailing Top View

U.S. Patent 4,480,941

HGUQ *MULTI-PLY GIRDER TRUSS HANGERS*

HGUQ hangers are designed for connections to multi-ply girder trusses. Installation using Simpson's SDS wood screws will provide an improved distribution of load between all plys of the supporting girder truss. Using SDS screws results in a faster and easier installation compared to nails.

MATERIAL: 12 gauge. **FINISH:** Galvanized

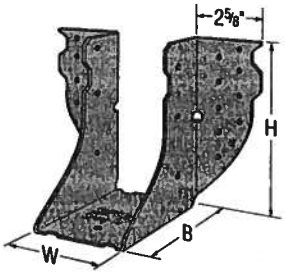
INSTALLATION: • Use all specified fasteners. See General Notes.

- SDS screws supplied.
- Not designed for welded or nailer applications.

OPTIONS: These hangers cannot be modified.

CODES: See page 8 for Code Listing Key Chart.

See page 103 for an example of product installation on a truss.



HGUQ28-2

Model No.	Ga	Dimensions W	H	B	Quantity Fasteners ¼" SDS: Carrying Member	Carried Member	Avg Ult	Doug Fir-Larch/Southern Pine Allowable Loads: Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof (125)	Spruce-Pine-Fir Allowable Loads: Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof (125)	Code Ref.
DOUBLE 2x SIZES																		
HGUQ26-2-SDS3	12	3⅞	5	4	(12) ¼x3	(4) ¼x3	17415	1635	1635	3695	4250	4620	1415	1635	3180	3655	3975	
HGUQ28-2-SDS3	12	3⅞	7	4	(20) ¼x3	(6) ¼x3	23675	2465	2565	6160	7085	7330	2120	2545	5300	6095	6625	
HGUQ210-2-SDS3	12	3⅞	9	4	(28) ¼x3	(8) ¼x3	22775	3285	3440	7415	7415	7415	2825	3390	7220	7415	7415	
TRIPLE 2x SIZES																		
HGUQ26-3-SDS4.5	12	5⅛	5⅛	4	(12) ¼x4½	(4) ¼x4½	17415	1635	1635	3695	4250	4620	1415	1635	3180	3655	3975	
HGUQ28-3-SDS4.5	12	5⅛	7⅛	4	(20) ¼x4½	(6) ¼x4½	30085	2465	2565	6160	7085	7700	2120	2545	5300	6095	6625	160
HGUQ210-3-SDS4.5	12	5⅛	9⅛	4	(28) ¼x4½	(8) ¼x4½	31480	3285	3440	8625	9745	9745	2825	3390	7420	8535	9276	
QUADRUPLE 2x SIZES																		
HGUQ26-4-SDS6	12	6¹⁵⁄₁₆	5⅝	4	(12) ¼x6	(4) ¼x6	16880	1645	1970	3695	4250	4620	1415	1695	3180	3655	3975	
HGUQ28-4-SDS6	12	6¹⁵⁄₁₆	7⅝	4	(20) ¼x6	(6) ¼x6	28230	2465	2955	6160	7085	7700	2120	2545	5300	6095	6625	
HGUQ210-4-SDS6	12	6¹⁵⁄₁₆	9⅝	4	(28) ¼x6	(8) ¼x6	31110	3285	3940	8625	9920	10260	2825	3390	7420	8535	9275	
4x SIZES																		
HGUQ46-SDS3	12	3⅝	4⅞	4	(12) ¼x3	(4) ¼x3	17415	1635	1635	3695	4250	4620	1415	1635	3180	3655	3975	
HGUQ48-SDS3	12	3⅝	6⅞	4	(20) ¼x3	(6) ¼x3	23675	2465	2565	6160	7085	7330	2120	2545	5300	6095	6625	
HGUQ410-SDS3	12	3⅝	8⅞	4	(28) ¼x3	(8) ¼x3	22775	3285	3440	7415	7415	7415	2825	3390	7415	7415	7415	

1. Uplift loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed. Divide by 1.33 and 1.60 for normal loading as in cantilever construction.

THA/THAC ADJUSTABLE TRUSS HANGERS

SIMPSON Strong-Tie CONNECTORS

The THA series' extra long straps allow full code nailing and can be field-formed to give top flange hanger convenience.

MATERIAL: See table.

FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

- **Two different installation methods may be used:**

Maximum nailing–Install all face nails according to the table. Nails used for the joist attachment must be driven at an angle so that they penetrate through the corner of the joist into the header.

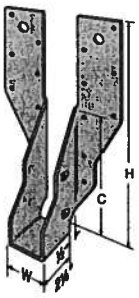
With single 2x carrying members, use 10dx1½" nails into the carrying member, and 10d or 16d commons into the carried member, and use 0.81 of the table value for 18 gauge, and 0.68 of the table value for 16 gauge.

Minimum nailing–For the THA29, the minimum nailing schedule requires the use of joist double shear nailing as detailed above, and that the strap be field-formed over the header a minimum of 2½". A minimum of four top and four face nails must be used.

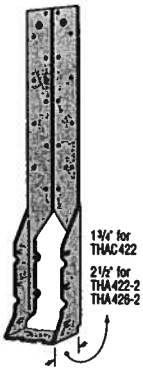
For all models except the THA29, the minimum nailing schedule may be followed where double shear nailing is not possible, provided the strap is field-formed over the top of the header a minimum of 1½" for the THA213 and THA413, and 2" for all others, and a minimum of four top and two face nails are used. The joist double shear nailing tabs are easily straightened so that the nails can be driven straight into the joist.

CODES: See page 8 for Code Listing Key Chart.

Dome Double Shear Nailing prevents tabs breaking off (available on some models)
U.S. Patent 5,603,580



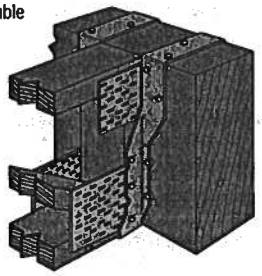
THA29



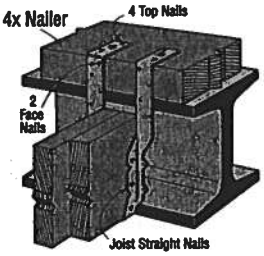
THAC422

THA

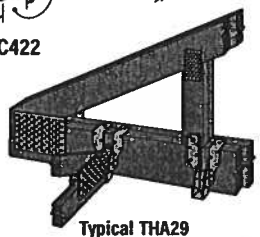
Double Shear Nailing Side View



Typical THA Installation with a 4x2 floor truss



Typical THA Minimum Nailing Configuration on a 4x Nailer (except THA29)



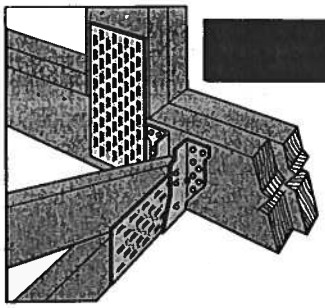
Typical THA29 Minimum Nailing Installation

Double Shear Nailing Top View
U.S. Patent 4,480,941

Minimum Carried Member	Model No.	Ga	Dimensions W	H	C	Fasteners[1] Carrying Member Top	Carrying Member Face	Carried Member Straight	Carried Member Slant	Down Avg Ult	Doug-Fir-Larch/Southern Pine Allowable Loads Uplift[2] (133 & 160)	Floor (100)	Snow (115)	Roof (125)	Spruce-Pine-Fir Allowable Loads Uplift[2] (133 & 160)	Floor (100)	Snow (115)	Roof (125)	Code Ref.
MINIMUM NAILING—TOP FLANGE																			
2x4	THA29	18	1⅝	9¹⁵⁄₁₆	5⅛	4-10d	4-10d	—	4-10d	8167	750	2260	2310	2350	750	1740	1785	1815	1, 36, 84, 122
2x6	THA213	18	1⅝	13⅜	5½	4-10d	2-10d	4-10dx1½	—	5343	—	1615	1615	1615	—	1280	1280	1280	
2x6	THA218	18	1⅝	17⅞	5½	4-10d	2-10d	4-10dx1½	—	5343	—	1615	1615	1615	—	1280	1280	1280	
(2)2x10	THA218-2	16	3⅛	17¹⁵⁄₁₆	8	4-16d	2-16d	6-16dx2½	—	5085	—	1635	1635	1635	—	1465	1465	1465	
(2)2x10	THA222-2	16	3⅛	22⅛	8	4-16d	2-16d	6-16dx2½	—	5085	—	1635	1635	1635	—	1465	1465	1465	
4x6	THA413	18	3⅝	13⅜	4½	4-10d	2-10d	4-10d	—	5343	—	1615	1615	1615	—	1280	1280	1280	
4x10	THA418	16	3⅝	17½	7⅛	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465	
4x10	THAC418	16	3⅝	17½	7⅛	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465	170
4x2truss	THA422	16	3⅝	22	7⅛	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465	1, 36, 84, 122
4x2truss	THAC422	16	3⅝	22	7⅛	4-16d	2-16d	6-16d	—	5085	—	1635	1635	1635	—	1465	1465	1465	122
4x2truss	THA426	14	3⅝	26	7⅛	4-16d	4-16d	6-16d	—	8720	—	2425	2425	2425	—	1940	1940	1940	170
4x2truss	THAC426	14	3⅝	26	7⅛	4-16d	4-16d	6-16d	—	8720	—	2425	2425	2425	—	1940	1940	1940	
(2)4x2truss	THA422-2	14	7¼	22¹⁵⁄₁₆	9¼	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260	122
(2)4x2truss	THAC422-2	14	7¼	22¹⁵⁄₁₆	9¼	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260	
(2)4x2truss	THA426-2	14	7¼	26⅛	9¼	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260	170
(2)4x2truss	THAC426-2	14	7¼	26⅛	9¼	4-16d	4-16d	6-16d	—	8727	—	2810	2810	2810	—	2260	2260	2260	
MAXIMUM NAILING—ALL NAIL HOLES FILLED																			
2x4	THA29	18	1⅝	9¹⁵⁄₁₆	5⅛	—	16-10d	—	4-10d	8250	750	2125	2310	2350	750	1740	1785	1815	1, 36, 84, 122
2x6	THA213	18	1⅝	13⅜	5½	—	14-10d	—	4-10d	7983	930	1795	1840	1870	780	1385	1425	1450	
2x6	THA218	18	1⅝	17⅞	5½	—	18-10d	—	4-10d	9120	930	1795	1840	1870	780	1385	1425	1450	
(2)2x10	THA218-2	16	3⅛	17¹⁵⁄₁₆	8	—	16-16d	—	6-16d	11500	1550	2830	3050	3050	1355	2385	2740	2820	
(2)2x10	THA222-2	16	3⅛	22⅛	8	—	22-16d	—	6-16d	13067	1550	3510	3595	3650	1355	2705	2775	2820	
4x6	THA413	18	3⅝	13⅜	4½	—	14-10d	—	4-10d	7983	930	1940	2235	2400	780	1660	1910	2075	
4x10	THA418	16	3⅝	17½	7⅛	—	16-16d	—	6-16d	11500	1550	2830	3050	3050	1355	2385	2740	2980	
4x10	THAC418	16	3⅝	17½	7⅛	—	16-16d	—	6-16d	11500	1550	2830	3050	3050	1355	2385	2740	2980	170
4x2truss	THA422	16	3⅝	22	7⅛	—	22-16d	—	6-16d	13067	1550	3630	4090	4145	1355	3075	3145	3195	1, 36, 84, 122
4x2truss	THAC422	16	3⅝	22	7⅛	—	22-16d	—	6-16d	13067	1550	3630	4090	4145	1355	3075	3145	3195	122
4x2truss	THA426	14	3⅝	26	7⅛	—	30-16d	—	6-16d	14836	1715	4020	4625	4655	1355	3480	4000	4030	170
4x2truss	THAC426	14	3⅝	26	7⅛	—	30-16d	—	6-16d	14836	1715	4020	4625	4655	1355	3480	4000	4030	
(2)4x2truss	THA422-2	14	7¼	22¹⁵⁄₁₆	9¼	—	30-16d	—	6-16d	18283	1715	4720	5430	5525	1395	4025	4420	4420	122
(2)4x2truss	THAC422-2	14	7¼	22¹⁵⁄₁₆	9¼	—	30-16d	—	6-16d	18283	1715	4720	5430	5525	1395	4025	4420	4420	
(2)4x2truss	THA426-2	14	7¼	26⅛	9¼	—	38-16d	—	6-16d	18283	1715	4695	4695	4695	1395	3255	3255	3255	170
(2)4x2truss	THAC426-2	14	7¼	26⅛	9¼	—	38-16d	—	6-16d	18283	1715	4695	4695	4695	1395	3255	3255	3255	

1. 16d sinkers may be used to replace 16d commons at 0.85 of table load.
2. Uplift has been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce where other loads govern
3 Roof loads are 125% of floor loads unless limited by other criteria
4 160% uplift load for THA422-2 and THAC422-2 is 2060 lbs

FACE MOUNT HANGERS



Typical HUS26 with Reduced Heel Height

(Truss Designer to provide fastener quantity for connecting multiple members together)

CODES: See page 8 for Code Listing Key Chart.

Model No.	Min. Heel Height	Ga	Dimensions W	H	B	Fasteners Carrying Member	Carried Member
SINGLE 2x SIZES							
LUS24	2⅝	18	1⅜	3⅛	1¼	4-10d	2-10d
LUS26	4¼		1⅜	4¼	1¼	4-10d	4-10d
MUS26	4¼	18	1⅜	5¼	2	6-10d	6-10d
HUS26	4⅜	16	1⅜	5⅜	3	14-16d	6-16d
HGUS26	4½	12	1⅜	5⅜	5	20-16d	8-16d
HGUS28	5½	12	1⅜	7⅛	5	36-16d	12-16d
LUS28	4⅜	18	1⅜	6¾	1¼	6-10d	4-10d
MUS28	6½	18	1⅜	6¼	2	8-10d	8-10d
HUS28	6½	16	1⅜	7	3	22-16d	8-16d
LUS210	4¼	18	1⅜	7¼	1¼	8-10d	4-10d
HUS210	8⅜	16	1⅜	9	3	30-16d	10-16d

Model No.	Min. Heel Height	Fasteners Carrying Member	Carried Member	Doug-Fir Larch/So. Pine Allowable Loads Uplift (133)	Floor (100)	Snow (115)	Roof (125)	Spruce-Pine-Fir Allowable Loads Uplift (133)	Floor (100)	Snow (115)	Roof (125)
HUS26	3½	6-16d	4-16d	1135	1265	1455	1580	925	1050	1210	1315
	3½	10-16d	4-16d	1135	1800	2070	2245	925	1510	1735	1890
	4⅜	14-16d	6-16d	1550	2565	2950	3205	1465	2210	2490	2540

Model No.	Avg Uft	Doug Fir-Larch Allowable Loads Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof (125)	Southern Pine Allowable Loads Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof[1] (125)	Spruce-Pine-Fir Allowable Loads Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof (125)	Code Ref.
SINGLE 2x SIZES																	
LUS24	3850	465	490	640	735	800	490	490	690	795	865	390	465	540	625	675	4, 38, 87, 122
LUS26	5167	930	1115	830	955	1040	1010	1165	900	1035	1125	780	935	700	805	875	
MUS26	5882	1090	1090	1310	1505	1640	1090	1090	1310	1505	1640	915	915	1100	1265	1380	160
HUS26	10000	1550	1550	2665	2950	3205	1550	1550	2785	3200	3325	1485	1550	2210	2490	2540	4, 38, 122
HGUS26	17160	2325	2325	3940	4535	4930	2325	2325	4265	4900	5330	1995	1995	3410	3920	4070	160
HGUS28	24880	3220	3220	6890	6165	6315	3220	3220	5840	5850	5990	2705	2705	4245	4405	4510	
LUS28	6066	930	1115	1055	1210	1320	1010	1165	1140	1310	1425	780	935	890	1025	1115	4, 38, 87, 122
MUS28	8528	1555	1555	1750	2010	2185	1555	1555	1750	2010	2185	1305	1305	1470	1690	1835	160
HUS28	13167	2000	2000	3585	3700	3775	2000	2000	3380	3505	3585	1855	2000	2580	2680	2745	4, 38, 122
LUS210	7750	930	1115	1275	1470	1595	1010	1165	1380	1590	1725	780	935	1085	1245	1355	4, 38, 87, 122
HUS210	18833	2845	3000	3775	3920	4026	3000	3000	3585	3745	3850	2320	2780	2745	2870	2955	122

Model No.	Min. Heel Height	Ga	Dimensions W	H	B	Fasteners Carrying Member	Carried Member	Avg Uft	Doug Fir-Larch/Southern Pine Allowable Loads Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof (125)	Spruce-Pine-Fir Allowable Loads Uplift[1] (133)	Uplift[1] (160)	Floor (100)	Snow (115)	Roof (125)	Code Ref.
DOUBLE 2x SIZES																			
LUS24-2	2⅝	18	3⅛	3⅛	2	4-16d	2-16d	5303	565	565	765	880	960	465	555	640	735	800	1, 36, 84, 122
LUS26-2	4¼	18	3⅛	4¼	2	4-16d	4-16d	6076	1140	1165	1000	1150	1250	925	1115	820	945	1025	
HHUS26-2	4⅜	14	3⅛	5	3	14-16d	6-16d	14867	1550	1550	2580	2965	3225	1395	1550	2165	2490	2710	4, 38
HGUS26-2	4½	12	3⅛	5⅜	4	20-16d	8-16d	17160	2325	2325	3940	4535	4930	1995	1995	3410	3920	4260	3, 41
LUS28-2	4⅜	18	3⅛	7	2	6-16d	4-16d	7750	1140	1165	1265	1455	1585	925	1115	1050	1210	1315	1, 36, 84, 122
HHUS28-2	6½	14	3⅛	6⅞	3	22-16d	8-16d	19850	2000	2000	3885	4465	4855	1860	2000	3275	3765	4095	4, 38
HGUS28-2	5½	12	3⅛	7⅛	4	36-16d	12-16d	24880	3220	3220	6805	7830	7925	2705	2705	5890	6320	6425	3, 41
LUS210-2	6⅜	18	3⅛	9	2	8-16d	6-16d	10907	1550	1550	1765	2030	2210	1390	1550	1465	1680	1830	1, 36, 84, 122
HHUS210-2	8⅜	14	3⅛	8⅞	3	30-16d	10-16d	22167	2855	3430	5190	5900	5900	2330	2795	4385	4795	4875	4, 38
HGUS210-2	7⅛	12	3⅛	9⅛	4	46-16d	16-16d	27945	3630	3630	8780	8940	8940	3050	3050	6815	6125	6865	3, 41
TRIPLE 2x SIZES																			
HGUS26-3	4½	12	4⅝	4½	4	20-16d	8-16d	17160	2325	2325	3940	4535	4930	1995	1995	3410	3920	4260	160
HGUS28-3	5½	12	4⅝	7⅛	4	36-16d	12-16d	24880	3220	3220	6805	7830	7925	2705	2705	5890	6655	6655	
HGUS210-3	7⅛	12	4⅝	9⅛	4	46-16d	16-16d	27945	3630	3630	8780	8940	8940	3050	3050	7510	7510	7510	
HHUS210-3	8⅜	14	4⅝	9	3	30-16d	10-16d	22167	2855	3430	5190	5900	5900	2330	2795	4385	5040	5480	170
QUADRUPLE 2x SIZES																			
HGUS26-4	5½	12	6⅛	5⅜	4	20-16d	8-16d	17160	2325	2325	3940	4535	4930	1955	1955	3410	3920	4260	170
HGUS28-4	7¼	12	6⅛	7⅛	4	36-16d	12-16d	24880	3220	3220	6805	7830	7925	2705	2705	5890	6655	6655	
HGUS210-4	9¼	12	6⅛	9⅛	4	46-16d	16-16d	27945	3630	3630	8780	8940	8940	3050	3050	7510	7510	7510	160
HHUS210-4	8¾	14	6⅛	8⅞	3	30-16d	10-16d	22167	2855	3430	5190	5970	6490	2450	2940	4475	5145	5595	170
HGUS212-4	10⅜	12	6⅛	10½	4	56-16d	20-16d	27885	4055	4055	9155	9155	9155	3405	3405	7690	7690	7690	160
HGUS214-4	12⅝	12	6⅛	12½	4	66-16d	22-16d	31710	5380	5380	10015	10015	10015	4520	4520	8415	8415	8415	
4x SIZES																			
LUS46	4⅜	18	3⅜	4¼	2	4-16d	4-16d	6076	1140	1165	1000	1150	1250	925	1115	820	945	1025	1, 36, 84, 122
HGUS46	4⅜	12	3⅜	4⅜	4	20-16d	8-16d	17160	2325	2325	3940	4535	4930	1995	1995	3410	3920	4260	3, 41
HHUS46	4⅜	14	3⅜	5⅛	3	14-16d	6-16d	14867	1550	1550	2580	2965	3225	1395	1550	2165	2490	2710	4, 38
LUS48	4⅜	18	3⅜	6¾	2	6-16d	4-16d	7750	1140	1165	1265	1455	1585	925	1115	1050	1210	1315	1, 36, 84, 122
HUS48	6⅛	14	3⅜	7	2	6-16d	6-16d	11190	1550	1550	1505	1730	1885	1315	1550	1240	1425	1550	
HHUS48	6½	14	3⅜	7	3	22-16d	8-16d	19850	2000	2000	3885	4465	4855	1860	2000	3275	3765	4095	4, 38
HGUS48	5⅞	12	3⅜	7⅛	4	36-16d	12-16d	24880	3220	3220	6805	7830	7925	2705	2705	5890	6655	6655	3, 41
LUS410	6¼	18	3⅜	8¾	2	8-16d	6-16d	10906	1550	1550	1765	2030	2210	1390	1550	1465	1680	1830	1, 36, 84, 122
HHUS410	8⅜	14	3⅜	9	3	30-16d	10-16d	22167	2855	3430	5190	5900	5900	2330	2795	4385	5040	5480	4, 38
HGUS410	7⅛	12	3⅜	9	4	46-16d	16-16d	27945	3630	3630	8780	8940	8940	3050	3050	7365	7510	7510	3, 41
HGUS412	9⅛	12	3⅜	10⅞	4	56-16d	20-16d	27885	4055	4055	9155	9155	9155	3405	3405	7690	7690	7690	160
HGUS414	11⅛	12	3⅜	12⅞	4	66-16d	22-16d	31710	5380	5380	10015	10015	10015	4520	4520	7690	8185	8380	

1. Uplift loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed. Divide by 1.33 and 1.60 for normal loading as in cantilever construction.

LTHJA26 TRUSS HIP/JACK GIRDERS

SIMPSON Strong-Tie CONNECTORS

The LTHJA26 is the new lighter capacity version of the THJA26. The LTHJA26 is designed for the common 8 foot hip girder setback. Consult with truss engineer or refer to truss engineering for actual demand load information.

MATERIAL: 18 gauge.

FINISH: Galvanized.

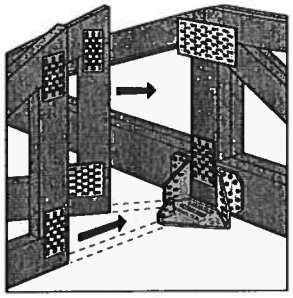
INSTALLATION: • Use all specified fasteners. See General Notes.

- All multiple members must be fastened together to act as a single unit.
- Should be attached to a double girder truss to allow for code-required minimum nail penetration.
- With single 2x carrying members, use 10dx1½" nails and use 0.67 of the table value.
- For hip and jack combinations, distribute 75% of the total load to the hip member.
- **10dx1½" nails must be installed into bottom of hip members through bottom of hanger seat for table loads.**

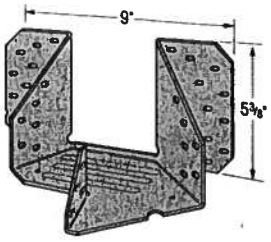
OPTIONS: These hangers can not be modified.

CODES: See page 8 for Code Listing Key Chart.

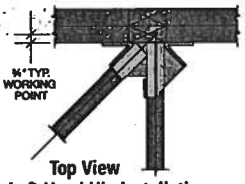
NEW



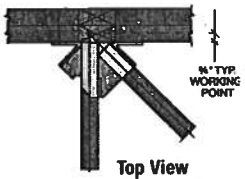
Typical LTHJA26 Installation



LTHJA26
U.S. Patent 5,253,465 and other Patent Pending



Top View Left Hand Hip Installation



Top View Right Hand Hip Installation

Top View Terminal Hip without Center Common Jack

Model No.	Carried Member Combination	Fasteners: Carrying Member	Fasteners: Hip[2] (each)	Fasteners: Jack	Total Avg Ult	Carried Member	Doug-Fir-Larch/So. Pine Allowable Loads: Uplift (133&160)	Floor (100)	Snow (115)	Roof (125)	Wind (133)	Spruce-Pine-Fir Allowable Loads: Uplift (133&160)	Floor (100)	Snow (115)	Roof (125)	Wind (133)	Code Ref.
LTHJA26	Side Hip & Center Jack	20-10d	7-10dx1½	4-10dx1½	3733	Jack	75	290	290	290	290	65	245	245	245	245	160
						Hip	220	875	875	875	875	185	735	735	735	735	
						Hip & Jack	295	1165	1165	1165	1165	250	980	980	980	980	
	Double (Terminal) Hip	20-10d	7-10dx1½	—	3852	Hip (each)	290	635	635	635	635	245	535	535	535	535	
						Two Hips	585	1270	1270	1270	1270	490	1065	1065	1065	1065	

1. Uplift loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce where other loads govern.
2. One 10dx1½" nail must be installed into bottom of each hip member through bottom of hanger seat.
3. For a 2-2x4 bottom chord, multiply the down load by 0.50.

THJA26 TRUSS HIP/JACK GIRDERS

The versatile THJA26 can accommodate right or left hand hips, and can be installed before or after the hip and jack. Provides side flange support for the component with the heaviest load and can be used for some terminal hip conditions.

MATERIAL: 14 gauge

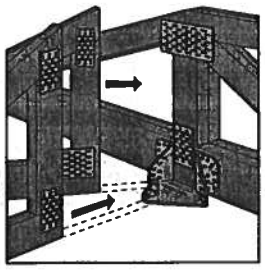
FINISH: Galvanized

INSTALLATION: • Use all specified fasteners. See General Notes.

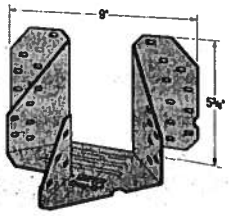
- All multiple members must be fastened together to act as a single unit.
- Should be attached to a double girder truss to allow for code-required minimum nail penetration.
- With single 2x carrying members, use 10dx1½" nails and use 0.67 of the table value.
- Distribute 75% of the total load to the hip member.

OPTIONS: These hangers cannot be modified.

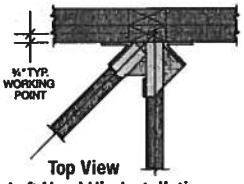
CODES: See page 8 for Code Listing Key Chart.



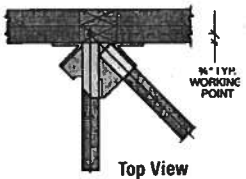
Typical THJA26 Installation



THJA26
U.S. Patent 5,253,465



Top View Left Hand Hip Installation



Top View Right Hand Hip Installation

Top View Terminal Hip without Center Common Jack

Model No.	Fasteners[1]: Carrying Member	Hip	Jack	Avg Ult	Carried Member	Doug-Fir-Larch/So. Pine Allowable Loads: Uplift (133) & (160)	Floor (100)	Snow (115)	Roof (125)	Wind (133)	Spruce-Pine-Fir Allowable Loads: Uplift (133) & (160)	Floor (100)	Snow (115)	Roof (125)	Wind (133)	Code Ref.
THJA26	20-16d	6-10dx1½	4-10dx1½	9900	Hip	720	2010	2310	2450	2450	590	1740	2000	2100	2100	8, 37
					Jack	240	670	770	815	815	195	580	670	700	700	
					Total	960	2680	3080	3265	3265	785	2320	2670	2800	2800	

1. 16d sinkers (9 ga x 3¼") may be substituted for the specified 16d commons at 0.84 of the table load.
2. Combine hip and jack loads for total capacity (for terminal hip, add hip and jack loads then divide by two for each member).
3. For a 2-2x4 bottom chord, multiply the down load by 0.50.
4. Uplift loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce where other loads govern.

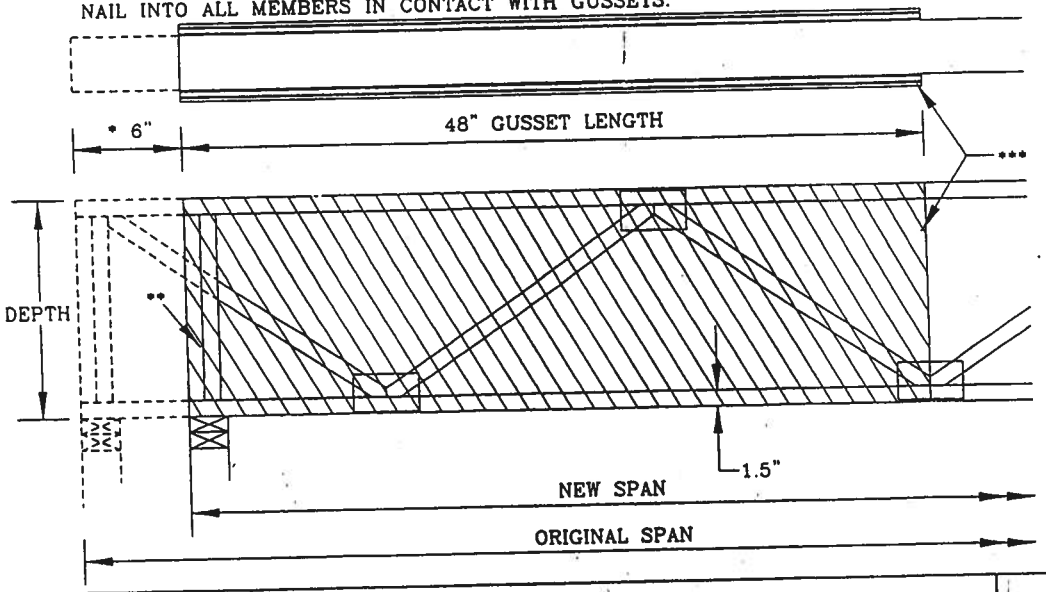
SY42 FIELD STUBBING REPAIR DETAIL

REFER TO ALPINE ENGINEER'S SEALED DESIGN FOR ORIGINAL SPAN, LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

* THIS REPAIR ALLOWS FOR A SINGLE SPAN, TWO BEARING, NON-CANTILEVERED, SY42 TRUSS TO BE SHORTENED A MAXIMUM OF 6" FROM ONE OR BOTH ENDS. TRUSSES SHALL SUPPORT A MAXIMUM TRIBUTARY LOAD AREA OF 2'-0" WITH NO OTHER UNIFORM OR CONCENTRATED LOADS.

** (2) 4x2 #3 FIELD-APPLIED BLOCKS. SCRIBE TO CUT FOR TIGHT FIT. ATTACH TO TRUSS WHERE SHOWN.

*** REPAIR TRUSS USING 1/2" APA RATED 32/16 OR 3/4" APA RATED 48/24 SHEATHING (REFER TO CHART) NAILED TO BOTH FACES OF TRUSS. SIZE GUSSETS AS SHOWN.
USE 8d BOX (0.113" DIA. x 2.5") NAILS IN 1 ROW AT 2" O.C.
NAIL INTO ALL MEMBERS IN CONTACT WITH GUSSETS.



TRUSSES MUST BE INSPECTED BY THE TRUSS MANUFACTURER OR LOCAL BUILDING DEPARTMENT AFTER THE COMPLETION OF REPAIRS TO ASSURE COMPLIANCE WITH ALPINE DESIGNS AND SPECIFICATIONS.

A CHASE OPENING, IF PRESENT, MUST BE LOCATED AT CENTERLINE OF TRUSS SPAN. TRUSS MAY BE CUT BACK UP TO 6" AT EACH END, UNLESS OTHERWISE SPECIFIED ON ENGINEER'S SEALED DESIGN.

1/2" 32/16 RATED SHEATHING	
MAXIMUM NEW SPAN	MINIMUM DEPTH
35-01-00	20"
31-07-00	18"
28-00-00	16"
24-04-00	14"
20-08-00	12"
16-11-00	10"

3/4" 48/24 RATED SHEATHING	
MAXIMUM NEW SPAN	MINIMUM DEPTH
40-03-08	20"
36-03-08	18"
32-03-08	16"
28-03-08	14"
24-03-08	12"
20-03-08	10"

THIS DRAWING REPLACES DRAWING 1,029,157

ALPINE

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD. INTERNAL WOOD FIBER DAMAGE AND EXCESS CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE, IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.

WALTER P. FINN CERTIFICATE No. 22639 STATE OF FLORIDA PROFESSIONAL ENGINEER MAR 30 2003

TC LL	40	PSF
TC DL	10	PSF
BC DL	5	PSF
BC LL	0	PSF
TOT.L.D.	55	PSF
DUR.FAC.	1.00	
SPACING	24.0"	

REF	STUB SY42
DATE	06/25/99
DRWG	REPSY42A0699
-ENG	MLH/KAR

THIS DRAWING SPECIFIES REPAIRS FOR A TRUSS WITH CRACKED OR BROKEN WEBS.

THIS DESIGN IS VALID ONLY FOR SINGLE PLY TRUSSES WITH 2X4 #3, STUD, OR STANDARD CRACKED OR BROKEN WEBS. NO MORE THAN 1 CRACK OR BREAK PER WEB AND 2 CRACKED OR BROKEN WEBS PER TRUSS ARE ALLOWED. CONTACT THE TRUSS MANUFACTURER FOR ANY REPAIRS THAT DO NOT COMPLY WITH THIS DETAIL.

CRACKED OR BROKEN WEB REPAIR DETAIL

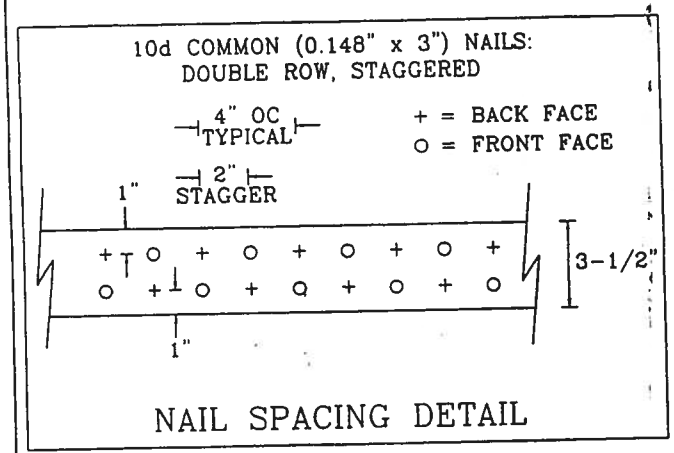
(B) = DAMAGED AREA, 0" MIN TO 12" MAX LENGTH OF CRACK OR BREAK IN WEB.

(S) = (2) 2X4 SCABS, SAME GRADE, SPECIES AS WEB MEMBER. MINIMUM LENGTH OF SCAB MUST BE THE GREATER OF:

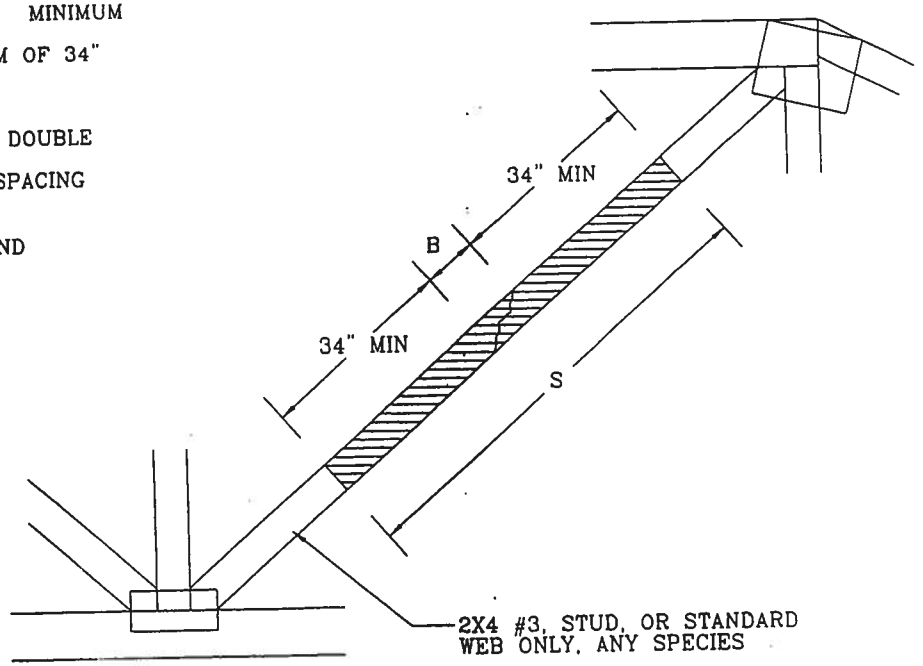
1. 68" + LENGTH OF DAMAGED AREA (B), MINIMUM OF 34" ON BOTH SIDES OF THE DAMAGED AREA.
   OR
2. 80% OF THE ORIGINAL WEB LENGTH.

ATTACH ONE SCAB TO EACH FACE OF THE WEB WITH A DOUBLE ROW OF 10d COMMON NAILS SPACED 4" OC STAGGERED. REFER TO NAIL SPACING DETAIL FOR ADDITIONAL NAIL SPACING INFORMATION.

NOTE: FIELD REPAIRS MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS.



NAIL SPACING DETAIL



THIS DRAWING REPLACES DRAWINGS HC25094073 & 958,849

ALPINE

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD. INTERNAL WOOD FIBER DAMAGE AND EXCESS CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE, IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.

WALTER P. FINN CERTIFICATE No. 22838 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 20 2003

SPACING 24.0"

REF	WEB REPAIR
DATE	06/25/99
DRWG	REPWEBSC0699
-ENG	MLH/KAR

BOTTOM CHORD FILLER REPAIR

RECOMMENDED REPAIR PROCEDURE

1. MEASURE DISTANCE FOR NEW LENGTH OF FILLER.
2. APPLY NEW 2X4 STUD GRADE OR BETTER VERTICAL SCAB TO BOTTOM CHORD AND FILLER WITH (3) NAILS 0.131" DIA. x 3.0" OR LARGER, (I.E. 10d OR 16d COMMON, SINKER, GUN, OR 16d BOX NAILS) TO EACH END OF VERTICAL.
3. CAREFULLY REMOVE EFFECTED CONNECTOR PLATES. USE CARE NOT TO DAMAGE THE REMAINING CONNECTOR PLATES OR LUMBER IN ANY WAY.
4. TRIM FILLER TO LENGTH, AT EDGE OF NEW VERTICAL SCAB.

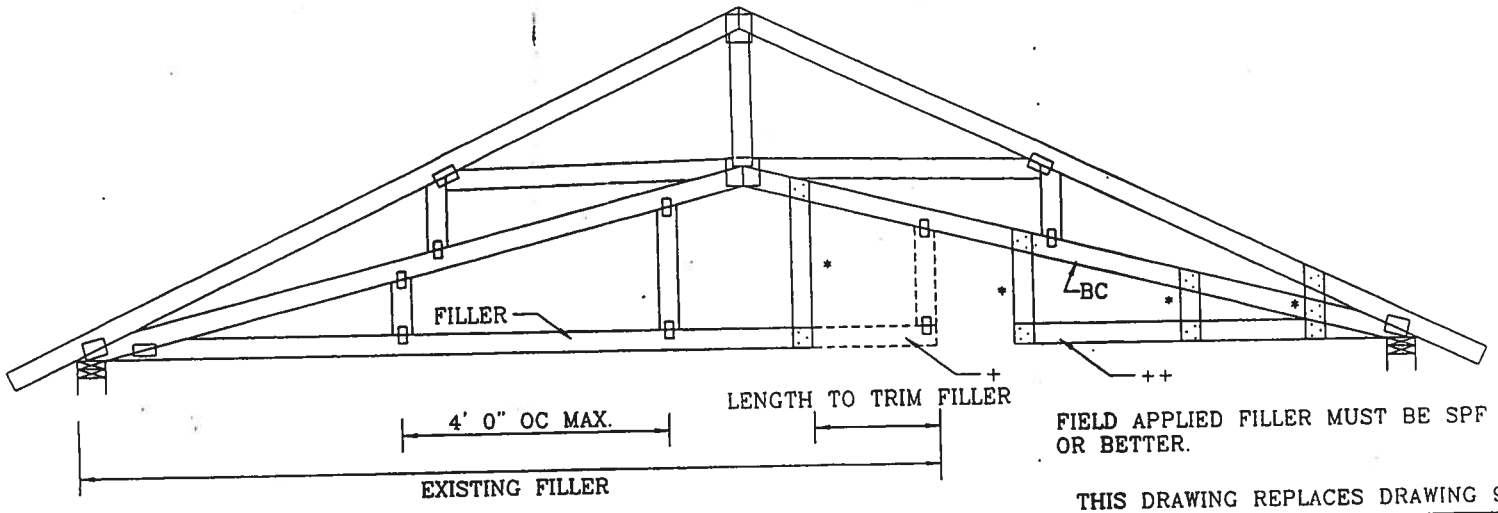
MAXIMUM BOTTOM CHORD LOAD IS 10 PSF.

\+ BOTTOM CHORD FILLER TO BE REMOVED. SEE NOTE #3.

++ FIELD APPLIED FILLER.

* 2X4 STUD GRADE OR BETTER VERTICAL SCAB ATTACH TO BOTTOM CHORD AND FILLER WITH (3) NAILS WITH A MIN. 0.131" DIA. X 3.0" LENGTH.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR ALLOWABLE FILLER DIMENSIONS, PLACEMENT, AND WEBBING.



FIELD APPLIED FILLER MUST BE SPF #3 OR BETTER.

THIS DRAWING REPLACES DRAWING 962.767

ALPINE

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

WALTER P. FINN CERTIFICATE No. 22838 MAR 30 2003 STATE OF FLORIDA PROFESSIONAL ENGINEER

REF	BC FILLER REP.
DATE	06/25/99
DRWG	REPBCFIL0699
-ENG	MLH/KAR

CONVENTIONALLY FRAMED VALLEY DETAIL

(A) 2X6 OR LARGER SP #2 OR SPF #1/#2 VALLEY RAFTER
(B) 2X4 SP OR SPF #3 CRIPPLE (MAX HEIGHT 6'-3")
(C) 2X4 SP OR SPF #3 CRIPPLE (MAX HEIGHT 6'-3")
(D) 2X6 OR LARGER SP #2 OR SPF #1/#2 RIDGE BOARD

NOTE: RIDGE BOARD (D) MUST NOT BE OF LESS SIZE THAN THAT OF VALLEY RAFTER (A).

NOTE: REFER TO VALLEY DETAIL VALTRUSS1001 FOR SUPPORTING TRUSS BRACING DETAILS.

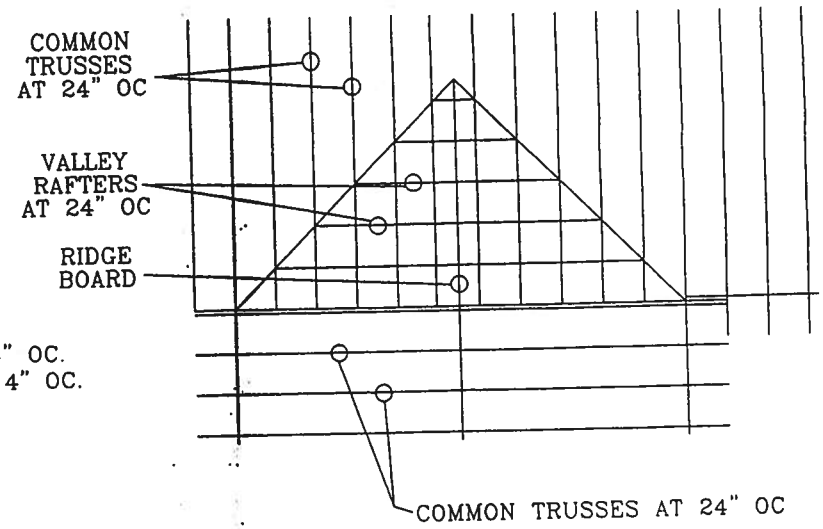
(B), (C) MAX HEIGHT WITH 1X4 "T" BRACE IS 9'-10".

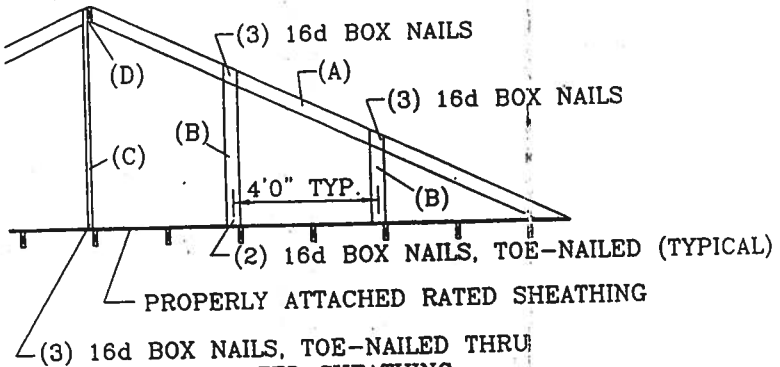
(B), (C) MAX HEIGHT WITH 2X4 "T" BRACE IS 11'-2".

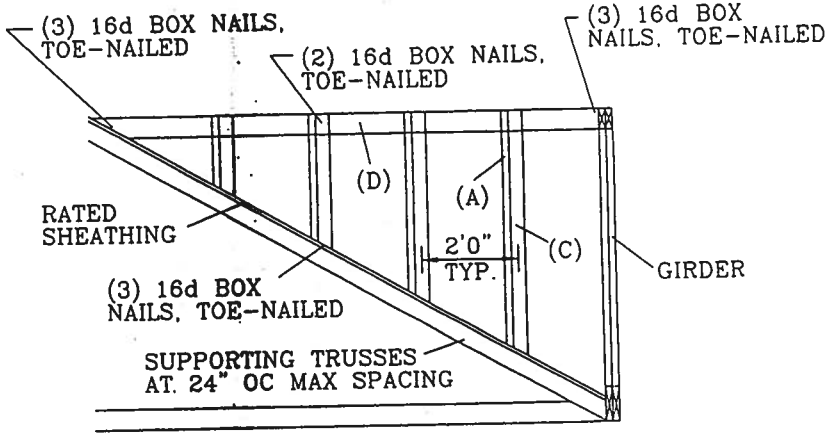
FOR 1X4 AND 2X4 "T" BRACING, BRACE TO BE SAME GRADE AS CRIPPLE.
FASTEN 1X4 "T" BRACE TO CRIPPLE WITH 8d BOX (0.113" x 2.5") NAILS AT 4" OC.
FASTEN 2X4 "T" BRACE TO CRIPPLE WITH 16d BOX (0.135" x 3.5") NAILS AT 4" OC.

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH PROPERLY ATTACHED RATED SHEATHING OR PURLINS AT 24" O.C.

PARTIAL FRAMING PLAN







THIS DRAWING REPLACES DRAWING V105-CONV

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

WALTER P. FINN CERTIFICATE No. 22838 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 31 2003

TC LL	30	30	40 PSF	REF CONV. VALLEY
TC DL	20	15	7 PSF	DATE 06/25/99
BC DL	10	10	10 PSF	DRWG VALCONVF1001
BC LL	0	0	0 PSF	-ENG MLH/KAR
TOT. LD.	60	55	57 PSF	
DUR.FAC.	1.25	1.33	1.15	1.15
SPACING	SEE ABOVE			

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR SBC 110 MPH, ASCE 7-93 110 MPH WIND OR ASCE 7-98 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

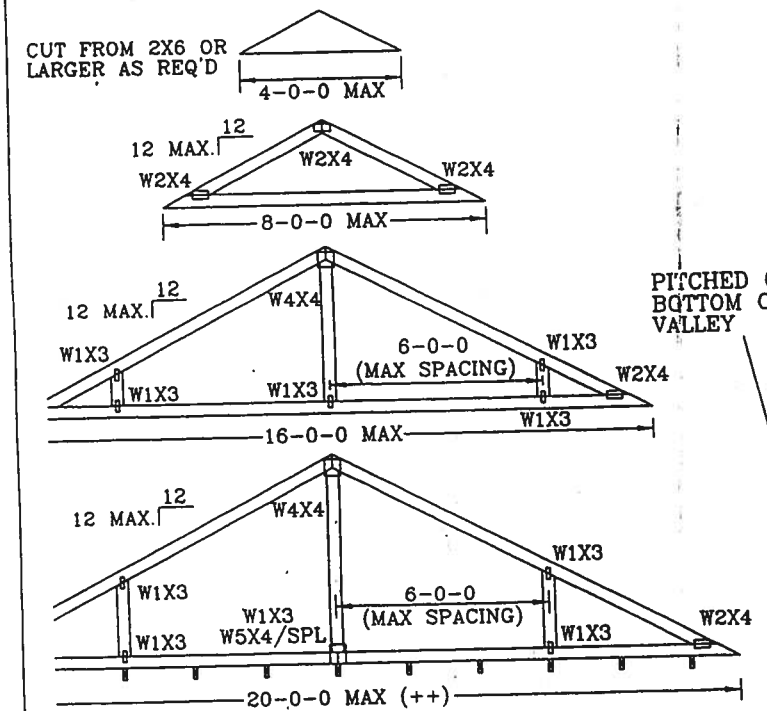
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

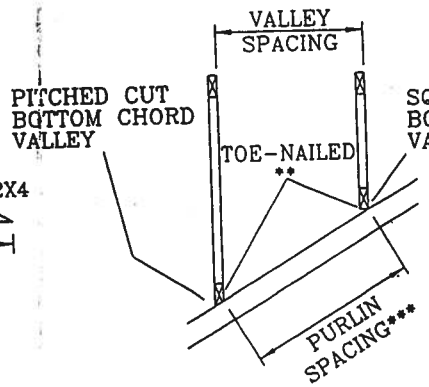
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

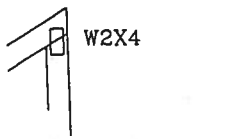
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.

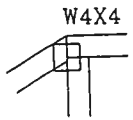


SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

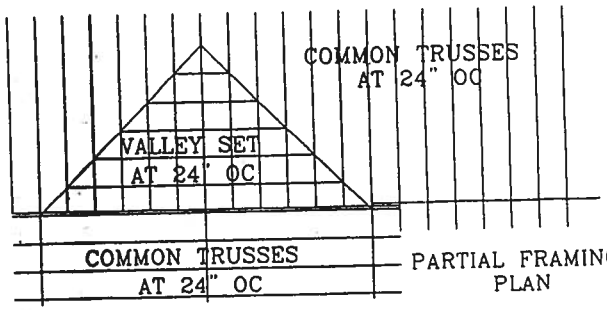




OPTIONAL STUB END DETAIL



OPTIONAL HIP JOINT DETAIL



PARTIAL FRAMING PLAN

THIS DRAWING REPLACES DRAWING A105

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
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WALTER P. FINN CERTIFICATE No. 22838 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 3 2003

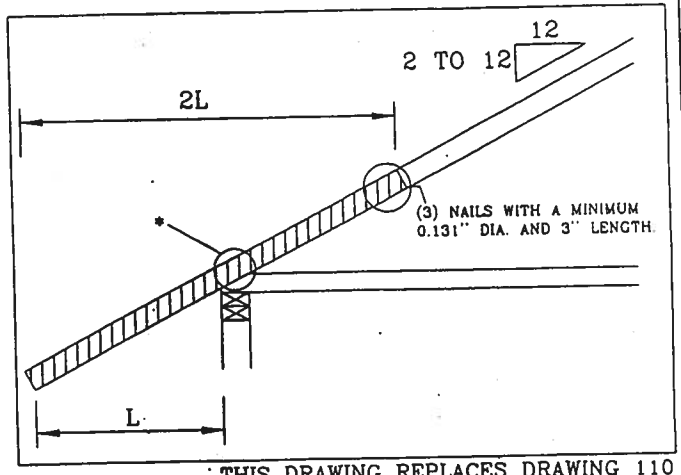
TC LL	30	30	40 PSF	
TC DL	20	15	7 PSF	
BC DL	10	10	10 PSF	
BC LL	0	0	0 PSF	
TOT. LD.	60	55	57 PSF	
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24"		

REF	VALLEY DETAIL
DATE	06/25/99
DRWG	VALTRUSS1001
-ENG	MLH/KAR

SCAB 2X6 OVERHANG DETAIL

LUMBER	TOTAL TOP CHORD LOAD (DEAD PLUS LIVE)															
	37PSF AT 1.15 DF				40PSF AT 1.15 DF				30PSF AT 1.25 DF				45PSF AT 1.33 DF			
	SOFFIT LOAD & NAILS (*)				SOFFIT LOAD & NAILS (*)				SOFFIT LOAD & NAILS (*)				SOFFIT LOAD & NAILS (*)			
	2 PSF	*	10 PSF	*	2 PSF	*	10 PSF	*	2 PSF	*	10 PSF	*	2 PSF	*	10 PSF	*
SP #2	5-02-00	4	4-08-08	4	4-11-12	4	4-06-12	4	5-11-06	4	5-01-14	4	5-00-12	4	4-08-03	4
HF #2	4-10-05	5	4-05-02	5	4-08-03	5	4-03-08	5	5-06-11	4	4-08-16	4	4-09-02	5	4-04-13	5
DF #2	4-11-02	4	4-05-14	4	4-09-00	4	4-04-04	5	5-08-01	4	4-10-02	4	4-09-15	4	4-05-09	5
SPF #1/#2	4-11-02	5	4-05-14	5	4-09-00	5	4-04-04	5	5-08-01	4	4-10-02	4	4-09-15	5	4-05-09	5

MINIMUM 2X6 SCAB, SAME GRADE AND SPECIES AS TOP CHORD DESIGNATED ON ENGINEER'S SEALED DESIGN AND TWO TIMES THE OVERHANG LENGTH. ATTACH OVERHANG SCAB TO ONE FACE OF TOP CHORD WITH MINIMUM 0.131" DIA. x 3.0" LENGTH NAILS (I.E. 10d OR 16d COMMON, SINKER, GUN, OR 16d BOX NAILS) AT 8" O.C. PLUS CLUSTERS WHERE SHOWN IN FIGURE AT RIGHT.



THIS DRAWING REPLACES DRAWING 110

ALPINE

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 16d A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

WALTER P. FINN CERTIFICATE No. 22838 MAR 30 2001 STATE OF FLORIDA PROFESSIONAL ENGINEER

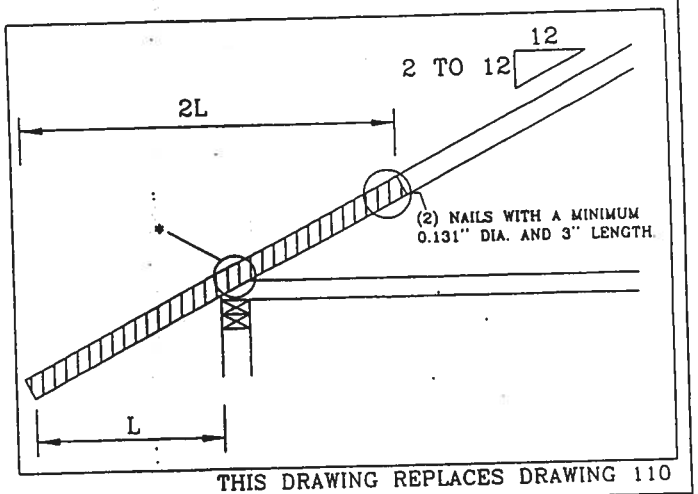
SPACING 24"

REF 2X6 SCAB O.H.
DATE 06/25/99
DRWG OHSCB2X60699
-ENG MLH/KAR

SCAB 2X4 OVERHANG DETAIL

LUMBER	TOTAL TOP CHORD LOAD (DEAD PLUS LIVE)															
	37PSF AT 1.15 DF				40PSF AT 1.15 DF				30PSF AT 1.25 DF				45PSF AT 1.33 DF			
	SOFFIT LOAD & NAILS (*)				SOFFIT LOAD & NAILS (*)				SOFFIT LOAD & NAILS (*)				SOFFIT LOAD & NAILS (*)			
	2 PSF	*	10 PSF	*	2 PSF	*	10 PSF	*	2 PSF	*	10 PSF	*	2 PSF	*	10 PSF	*
SP #2	3-07-04	3	3-03-04	3	3-05-11	3	3-01-09	3	3-06-13	2	3-01-09	2	3-03-04	3	2-11-04	3
HF #2	3-03-14	3	2-10-13	3	3-01-11	3	2-09-06	4	3-01-11	3	2-09-06	3	2-10-13	3	2-07-06	3
DF #2	3-04-07	3	2-11-09	3	3-02-09	3	2-10-01	3	3-02-09	2	2-10-01	2	2-11-09	3	2-08-01	3
SPF #1/#2	3-04-07	3	2-11-09	4	3-02-09	4	2-10-01	4	3-02-09	3	2-10-01	3	2-11-09	3	2-08-01	3

MINIMUM 2X4 SCAB, SAME GRADE AND SPECIES AS TOP CHORD DESIGNATED ON ENGINEER'S SEALED DESIGN AND TWO TIMES THE OVERHANG LENGTH. ATTACH OVERHANG SCAB TO ONE FACE OF TOP CHORD WITH MINIMUM 0.131" DIA. x 3.0" LENGTH NAILS (I.E. 10d OR 16d COMMON, SINKER, GUN, OR 16d BOX NAILS) AT 8" O.C. PLUS CLUSTERS WHERE SHOWN IN FIGURE AT RIGHT.



THIS DRAWING REPLACES DRAWING 110

ALPINE

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WALTER P. FINN CERTIFICATE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER MAR 30 2003

SPACING 24"

REF 2X4 SCAB O.H.
DATE 06/25/99
DRWG OHSCB2X40699
-ENG MLH/KAR

NAIL SPACING DETAIL

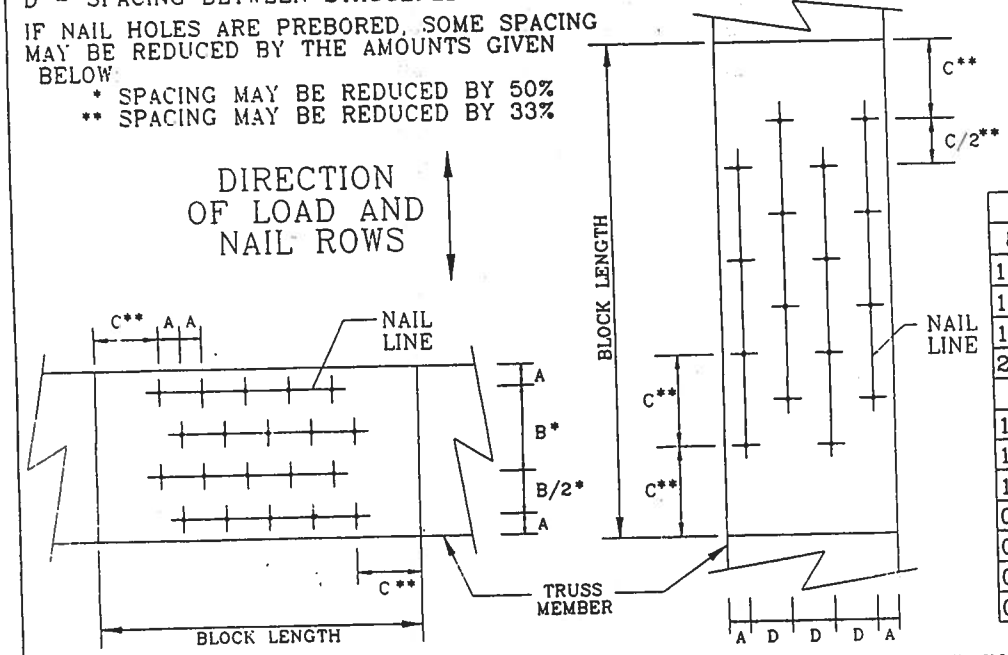
MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH,GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN
- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN
- A - EDGE DISTANCE (6 NAIL DIAMETERS)
- C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)
- D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW
- * SPACING MAY BE REDUCED BY 50%
- ** SPACING MAY BE REDUCED BY 33%



LOAD APPLIED PERPENDICULAR TO GRAIN LOAD APPLIED PARALLEL TO GRAIN

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE 2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X2.5")	3	6	9	12	15
10d BOX (0.128"X3")	3	5	7	10	12
12d BOX (0.128"X3.25")	3	5	7	10	12
16d BOX (0.135"X3.5")	3	5	7	10	12
20d BOX (0.148"X4")	2	4	5	6	8
8d COMMON (0.131"X2.5")	3	5	7	10	12
10d COMMON (0.148"X3")	2	4	6	8	10
12d COMMON (0.148"X3.25")	2	4	6	8	10
16d COMMON (0.162"X3.5")	2	4	6	8	10
0.120"X2.5" GUN	3	6	8	11	14
0.131"X2.5" GUN	3	5	7	10	12
0.120"X3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES A	B*	C**	D
8d BOX (0.113"X2.5")	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X3")	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X3.25")	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X3.5")	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X4")	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X2.5")	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X3")	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X3.25")	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X3.5")	1"	2"	2 1/2"	1 1/4"
0.120"X2.5" GUN	3/4"	1 1/2"	1 7/8"	1"
0.131"X2.5" GUN	7/8"	1 5/8"	2"	1"
0.120"X3.0" GUN	3/4"	1 1/2"	1 7/8"	1"
0.131"x3.0" GUN	7/8"	1 5/8"	2"	1"

THIS DRAWING REPLACES DRAWING 139 AND CNNAILSP0699

ALPINE

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WALTER P. FINN CERTIFICATE No. 22838 STATE OF FLORIDA PROFESSIONAL ENGINEER MAR 20 2003

REF	NAIL SPACE
DATE	12/16/99
DRWG	CNNAILSP1299
-ENG	DLJ/KAR

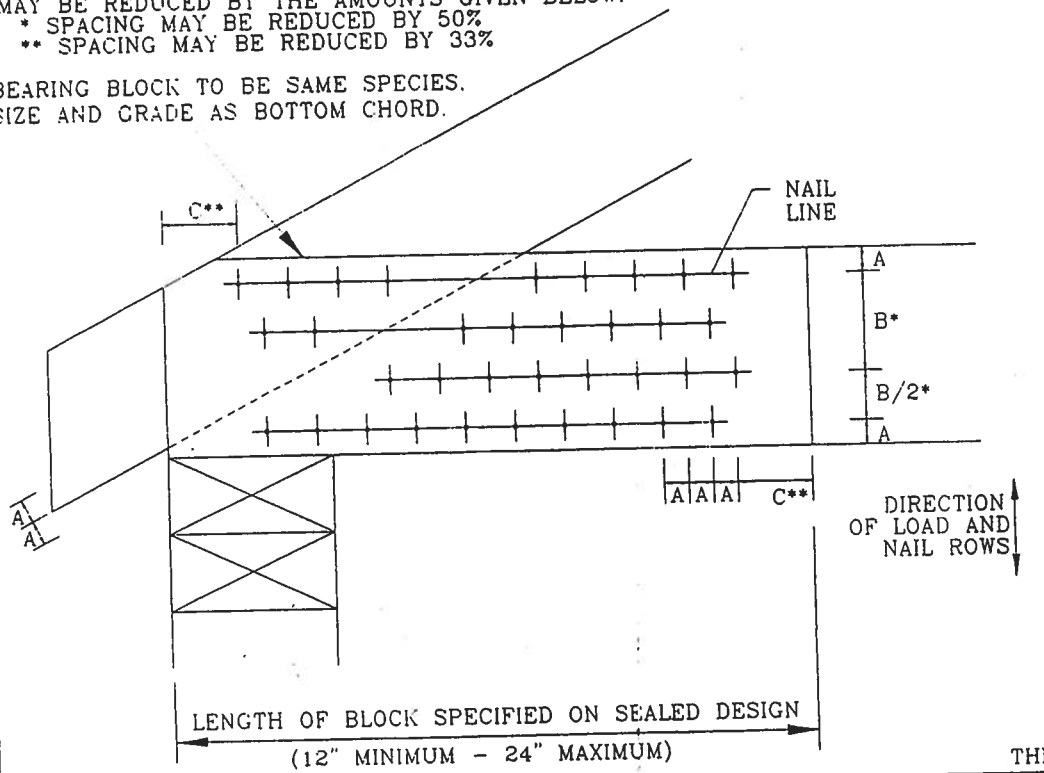
BEARING BLOCK NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
* SPACING MAY BE REDUCED BY 50%
** SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SPECIES, SIZE AND GRADE AS BOTTOM CHORD.



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE 2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X2.5")	3	6	9	12	15
10d BOX (0.128"X3")	3	5	7	10	12
12d BOX (0.128"X3.25")	3	5	7	10	12
16d BOX (0.135"X3.5")	3	5	7	10	12
20d BOX (0.148"X4")	2	4	5	6	8
8d COMMON (0.131"X2.5")	3	5	7	10	12
10d COMMON (0.148"X3")	2	4	6	8	10
12d COMMON (0.148"X3.25")	2	4	6	8	10
16d COMMON (0.162"X3.5")	2	4	6	8	10
0.120"X2.5" GUN	3	6	8	11	14
0.131"X2.5" GUN	3	5	7	10	12
0.120"X3.0" GUN	3	6	8	11	14
0.131"x3.0" GUN	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES A	B*	C**
8d BOX (0.113"X2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X3")	7/8"	1 5/8"	2"
12d BOX (0.128"X3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"X3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"X3")	1"	1 7/8"	2 1/4"
12d COMMON (0.148"X3.25")	1"	1 7/8"	2 1/4"
16d COMMON (0.162"X3.5")	1'	2"	2 1/2"
0.120"X2.5" GUN	3/4"	1 1/2"	1 7/8"
0.131"X2.5" GUN	7/8"	1 5/8"	2"
0.120"X3.0" GUN	3/4"	1 1/2"	1 7/8"
0.131"x3.0" GUN	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE

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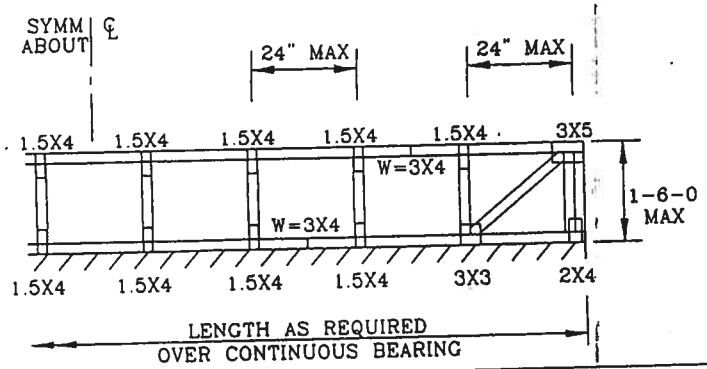
WALTER P. FINN CERTIFICATE No. 22838 STATE OF FLORIDA PROFESSIONAL ENGINEER MAR 30 2003

REF	BEARING BLOCK
DATE	12/16/99
DRWG	CNBRGBLK1299
-ENG	SJP/KAR

SYSTEM42 FLOOR GABLE

TOP CHORD 4X2 SP #1
BOT CHORD 4X2 SP #1
WEBS 4X2 SP #3

REFER TO DRAWING 160Z FOR TYPICAL PLATE LOCATIONS.



THIS TRUSS DESIGNED TO SUPPORT: 628 PLF

MAXIMUM UPWARD TOP CHORD LOAD IS 400 PLF, PROVIDE ANCHORAGE CONTINUOUS TO FOUNDATION.

1) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
8'0" STUD WALL (110 PLF)
20'0" ROOF SPAN WITH NO OVERHANG; 37 OR 40 PSF AT 1.25 DURATION, OR 47 PSF AT 1.33 DURATION

OR

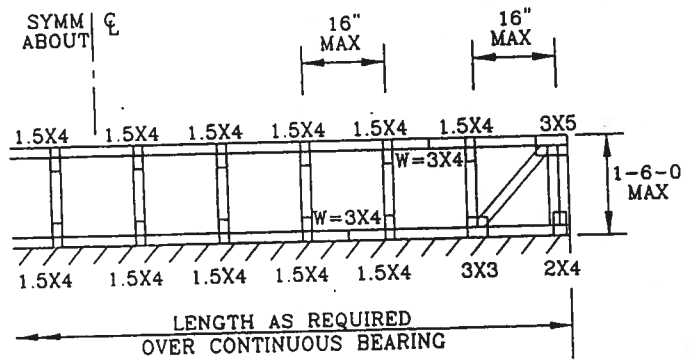
2) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
8'0" STUD WALL (110 PLF)
17'2" ROOF SPAN WITH NO OVERHANG; 45 OR 50 PSF AT 1.25 DURATION, OR 55 PSF AT 1.33 DURATION

DRAG LOADS MUST BE TRANSFERRED AND CARRIED BY PROPERLY ATTACHED STRUCTURAL PANELS.

SYSTEM42 FLOOR GABLE

TOP CHORD 4X2 SP #1
BOT CHORD 4X2 SP #1
WEBS 4X2 SP #3

REFER TO DRAWING 160Z FOR TYPICAL PLATE LOCATIONS.



DRAG LOADS MUST BE TRANSFERRED AND CARRIED BY PROPERLY ATTACHED STRUCTURAL PANELS.

A) THIS TRUSS DESIGNED TO SUPPORT: 1182 PLF. MAXIMUM UPWARD TOP CHORD LOAD IS 600 PLF, PROVIDE ANCHORAGE CONTINUOUS TO FOUNDATION.

1) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
8'0" STUD WALL (110 PLF)
36'0" ROOF SPAN WITH 2'0" OVERHANG; 37 OR 40 PSF AT 1.25 DURATION, OR 47 PSF AT 1.33 DURATION

OR

2) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
8'0" STUD WALL (110 PLF)
30'0" ROOF SPAN WITH 2'0" OVERHANG; 45 OR 50 PSF AT 1.25 DURATION, OR 55 PSF AT 1.33 DURATION

B) DOUBLE MEMBER TOP CHORD, TRUSS DESIGNED TO SUPPORT: 2038 PLF MAXIMUM UPWARD TOP CHORD LOAD IS 1300 PLF, PROVIDE ANCHORAGE CONTINUOUS TO FOUNDATION.

1) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
8'0" STUD WALL (110 PLF)
60'0" ROOF SPAN WITH 2'0" OVERHANG; 47 OR 55 PSF AT 1.33 DURATION, OR 37, 40, 45, OR 50 PSF AT 1.25 DURATION.

NOTE: FOR DOUBLE MEMBER TOP CHORDS, CHANGE 1.5X4, 2X4, 3X3, AND 3X5 PLATES TO 2X5, 2X5, 4X4, AND 4X5 PLATES, RESPECTIVELY. 3X4 SPLICE PLATES REMAIN UNCHANGED. SPLICES OF DOUBLE MEMBER TOP CHORDS TO BE STAGGERED.

THIS DRAWING REPLACES DRAWING 657,275

ALPINE

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WALTER P. FINN CERTIFICATE No. 22838 MAR 20 2003 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	40.0	PSF	REF SY42-Floor Gable
TC DL	10.0	PSF	DATE 06/25/99
BC DL	5.0	PSF	DRWG GBLSY42A0699
BC LL	0.0	PSF	-ENG MLH/KAR
TOT.L.D.	55.0	PSF	
DUR.FAC.	1.00		
SPACING	SEE ABOVE		

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

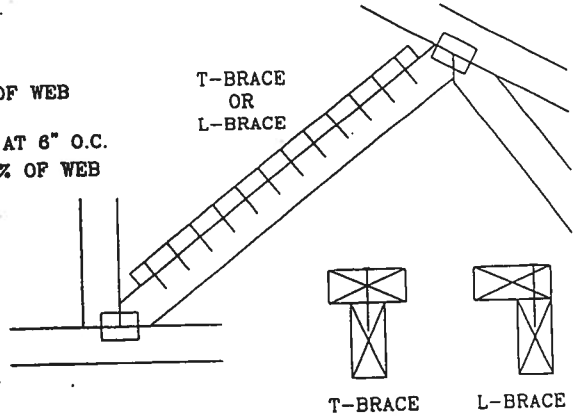
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

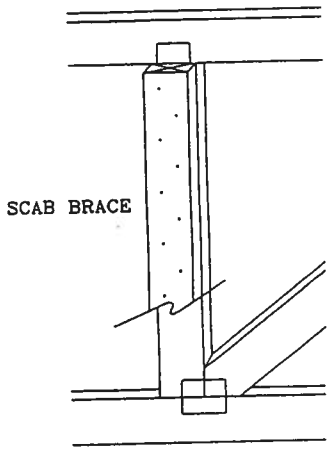
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE
ATTACH WITH 16d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579.640

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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WALTER P. FINN CERTIFICATE No. 22839 MAR 30 2003 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	06/25/99
BC DL	PSF	DRWG	BRCLBSUB0699
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

ASCE 7-98: 120 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 5"	5' 11"	6' 0"	7' 0"	7' 2"	8' 4"	8' 6"	10' 11"	11' 3"	13' 1"	13' 5"
		#3	3' 4"	4' 11"	4' 11"	6' 5"	6' 5"	8' 4"	8' 4"	10' 0"	10' 0"	13' 1"	13' 1"
		STUD	3' 4"	4' 10"	4' 10"	6' 5"	6' 5"	8' 4"	8' 4"	10' 0"	10' 0"	13' 1"	13' 1"
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 7"	8' 7"	11' 8"	11' 8"
	SP DFL	#1	3' 9"	5' 11"	6' 4"	7' 0"	7' 6"	8' 4"	8' 11"	10' 11"	11' 10"	13' 1"	14' 0"
		#2	3' 8"	5' 11"	6' 4"	7' 0"	7' 6"	8' 4"	8' 11"	10' 11"	11' 10"	13' 1"	14' 0"
		#3	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 4"	8' 9"	10' 3"	10' 3"	13' 1"	13' 9"
		STUD	3' 6"	4' 11"	4' 11"	6' 6"	6' 6"	8' 4"	8' 9"	10' 2"	10' 2"	13' 1"	13' 9"
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 7"	7' 7"	8' 9"	8' 9"	11' 11"	11' 11"
16" O.C.	SPF HF	#1 / #2	3' 11"	6' 9"	6' 11"	8' 0"	8' 2"	9' 6"	9' 6"	12' 6"	12' 11"	14' 0"	14' 0"
		#3	3' 10"	6' 0"	6' 0"	7' 11"	7' 11"	9' 6"	9' 6"	12' 3"	12' 3"	14' 0"	14' 0"
		STUD	3' 10"	5' 11"	5' 11"	7' 10"	7' 10"	9' 6"	9' 6"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 1"	5' 1"	6' 9"	6' 9"	9' 1"	9' 1"	10' 6"	10' 6"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 9"	7' 3"	8' 0"	8' 7"	9' 6"	10' 3"	12' 6"	13' 6"	14' 0"	14' 0"
		#2	4' 2"	6' 9"	7' 3"	8' 0"	8' 7"	9' 6"	10' 3"	12' 6"	13' 6"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	8' 0"	8' 1"	9' 6"	10' 0"	12' 6"	12' 7"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	8' 0"	8' 0"	9' 6"	10' 0"	12' 5"	12' 5"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 3"	5' 3"	6' 11"	6' 11"	9' 3"	9' 3"	10' 9"	10' 9"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 4"	7' 5"	7' 7"	8' 9"	9' 0"	10' 6"	10' 9"	13' 10"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 6"	10' 6"	13' 10"	13' 10"	14' 0"	14' 0"
		STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 6"	10' 6"	13' 10"	13' 10"	14' 0"	14' 0"
		STANDARD	4' 2"	5' 11"	5' 11"	7' 10"	7' 10"	10' 6"	10' 6"	12' 2"	12' 2"	14' 0"	14' 0"
	SP DFL	#1	4' 8"	7' 5"	8' 0"	8' 9"	9' 6"	10' 6"	11' 4"	13' 10"	14' 0"	14' 0"	14' 0"
		#2	4' 7"	7' 5"	8' 0"	8' 9"	9' 6"	10' 6"	11' 4"	13' 10"	14' 0"	14' 0"	14' 0"
		#3	4' 5"	7' 1"	7' 1"	8' 9"	9' 3"	10' 6"	11' 0"	13' 10"	14' 0"	14' 0"	14' 0"
		STUD	4' 5"	7' 0"	7' 0"	8' 9"	9' 3"	10' 6"	11' 0"	13' 10"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 1"	6' 1"	8' 0"	8' 0"	10' 6"	10' 9"	12' 5"	12' 5"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

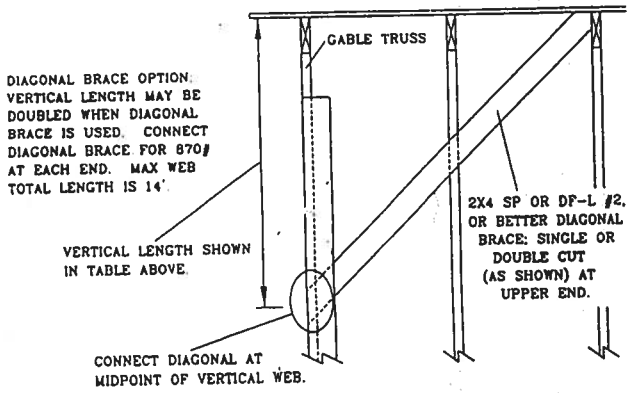
LIVE LOAD DEFLECTION CRITERIA IS L/240

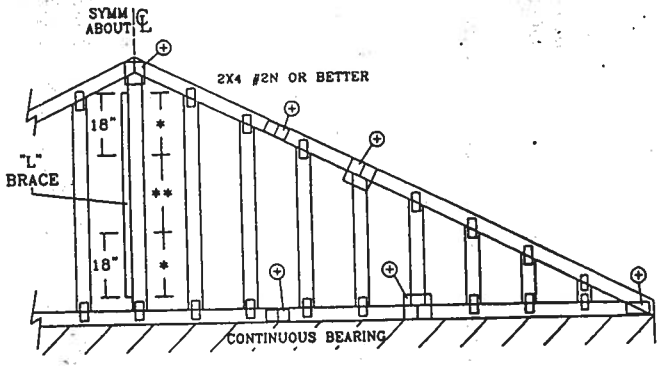
PROVIDE UPLIFT CONNECTIONS FOR 130 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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WALTER P. FINN CERTIFICATE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER MAR 30 2003

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-98-GAB12030
DATE	09/10/01
DRWG	A12030EC0901
-ENG	

PIGGYBACK TRUSS DETAIL (PIGGYBACK PERP. TO TRUSSES BELOW)

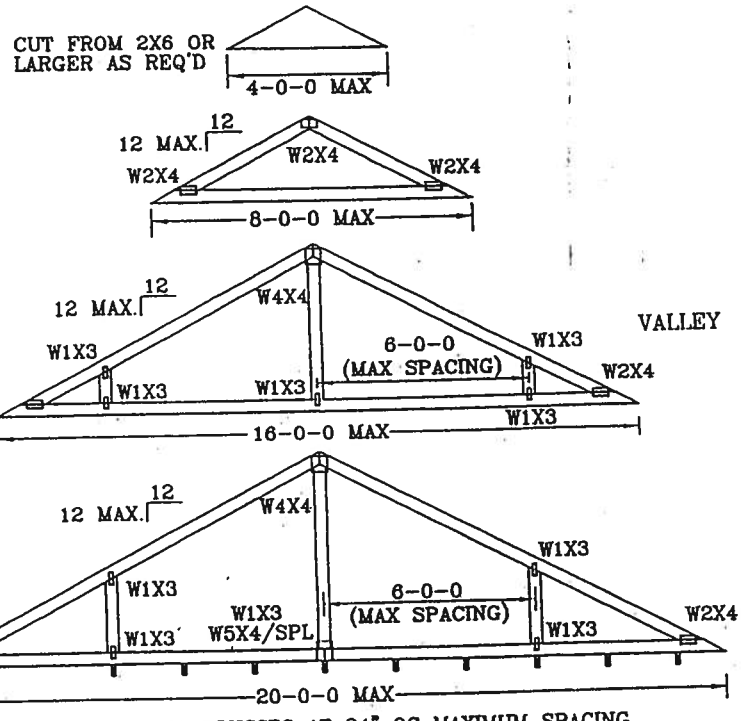
TOP CHORD 2X4 SP #2 OR BETTER.
BOT CHORD 2X4 SP #2N OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

**ATTACH EACH PIGGYBACK TO EVERY SUPPORTING TRUSS WITH: (1) H2.5 SIMPSON'S HURRICANE TIE. FILL ALL NAIL HOLES. FOR ASCE7-98 120 MPH UP TO 30' MEAN ROOF HEIGHT FOR PARTIALLY ENCLOSED AND CLOSED BUILDINGS. EXP B, RESIDENTIAL WIND TC DL= 4 PSF

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, PIGGYBACK WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL PIGGYBACK WEBS GREATER THAN 7'9".

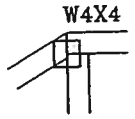
MAXIMUM PIGGYBACK VERTICAL HEIGHT MAY NOT EXCEED 12'0".

THIS DETAIL IS VALID ONLY IF THE FLAT TOP CHORD OF THE MAIN TRUSSES WORKS WITH PURLINS SPACED AT 24" o.c. OR LESS

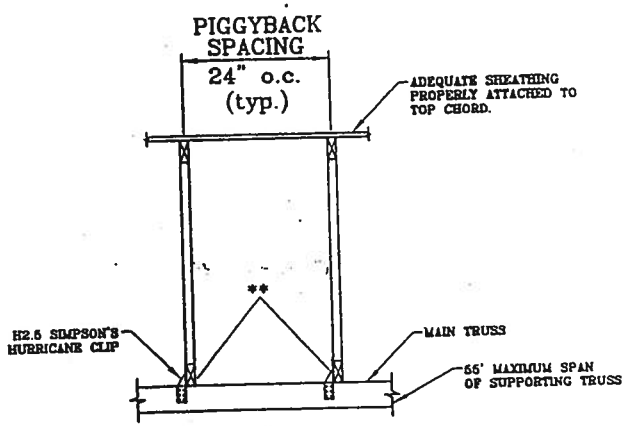


SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

OPTIONAL STUB END DETAIL



OPTIONAL HIP JOINT DETAIL



FOR TRUSSES & PIGGYBACKS 24" o.c. (typ.)

20' MAXIMUM PIGGYBACK AREA

ALPINE

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POMPANO BEACH, FLORIDA

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IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. BRACING DEPICTED ON THIS DESIGN IS ONLY FOR LATERAL SUPPORT OF TRUSS MEMBERS TO REDUCE BUCKLING LENGTHS. ALL DESIGN, ATTACHMENT AND INSTALLATION OF TEMPORARY AND PERMANENT BRACING, TO RESIST LATERAL FORCES AND HOLD TRUSSES PLUMB, SHALL BE THE RESPONSIBILITY OF OTHERS. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN OR HANDLING, SHIPPING, INSTALLING, AND BRACING OF TRUSSES. AN ENGINEER'S SEAL ON THIS DRAWING APPLIES ONLY TO DESIGN OF THE TRUSS DEPICTED HERE AND SHALL NOT BE RELIED UPON IN OTHER WAY.

TC LL	30
TC DL	20
BC DL	10
BC LL	0
TOT. LD.	60
DUR.FAC.	1.25/1.33
SPACING	24"

REF	PIGGYBACK DETAIL
DATE	02/28/03
DRWG	PIGGYBACKPERPRI
-ENG	DR

PIGGYBACK TRUSS DETAIL (PIGGYBACK PERP. TO TRUSSES BELOW)

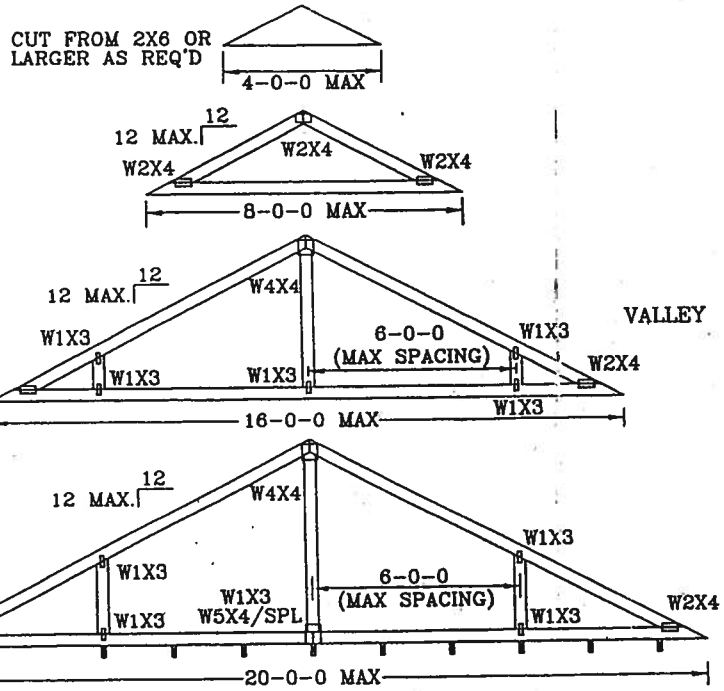
TOP CHORD 2X4 SP #2 OR BETTER.
BOT CHORD 2X4 SP #2N OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

** ATTACH EACH PIGGYBACK TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR SBC 110 MPH, ASCE 7-93 110 MPH WIND OR ASCE 7-98 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. B, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, PIGGYBACK WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL PIGGYBACK WEBS GREATER THAN 7'9".

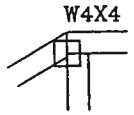
MAXIMUM PIGGYBACK VERTICAL HEIGHT MAY NOT EXCEED 12'0".

THIS DETAIL IS VALID ONLY IF THE FLAT TOP CHORD OF THE MAIN TRUSSES WORKS WITH PURLINS SPACED AT 24" o.c. OR LESS

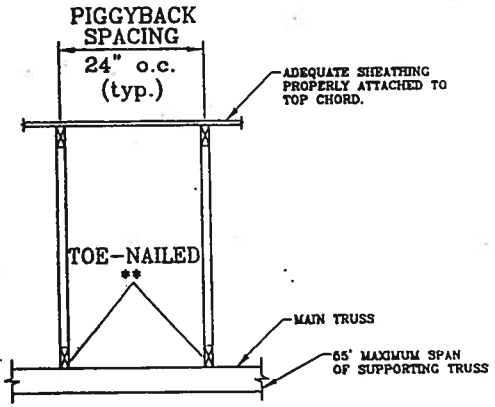


SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

OPTIONAL STUB END DETAIL



OPTIONAL HIP JOINT DETAIL



FOR TRUSSES & PIGGYBACKS 24" o.c. (typ.)

20' MAXIMUM PIGGYBACK AREA

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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TC LL	30		
TC DL	20		
BC DL	10		
BC LL	0		
TOT. LD.	60		
DUR.FAC.	1.25/1.33		
SPACING	24"		

REF	PIGGYBACK DETAIL
DATE	08/20/02
DRWG	PIGGYBACKPERP
-ENG	DR

PIGGYBACK DETAIL

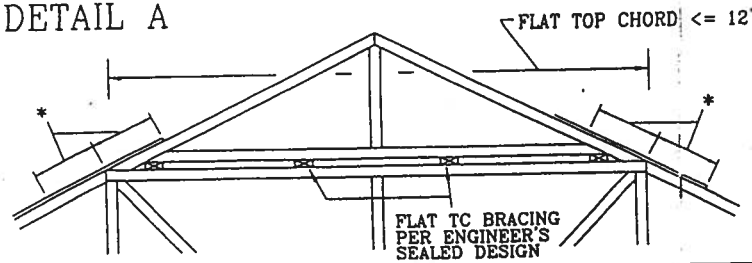
80 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG. LOCATED ANYWHERE IN ROOF, 100 MI FROM COAST. CAT I, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC, ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATLY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

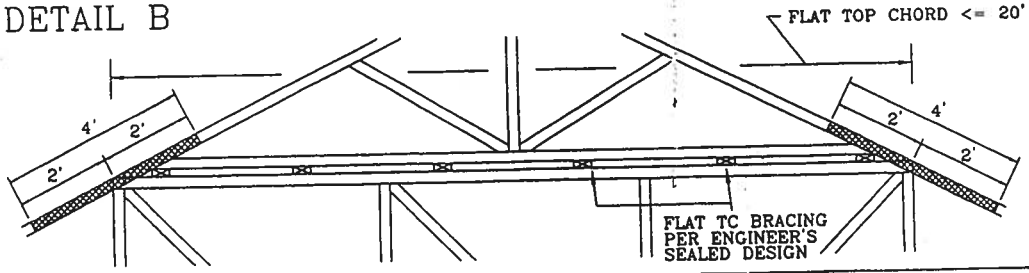
DETAIL A



PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.

* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

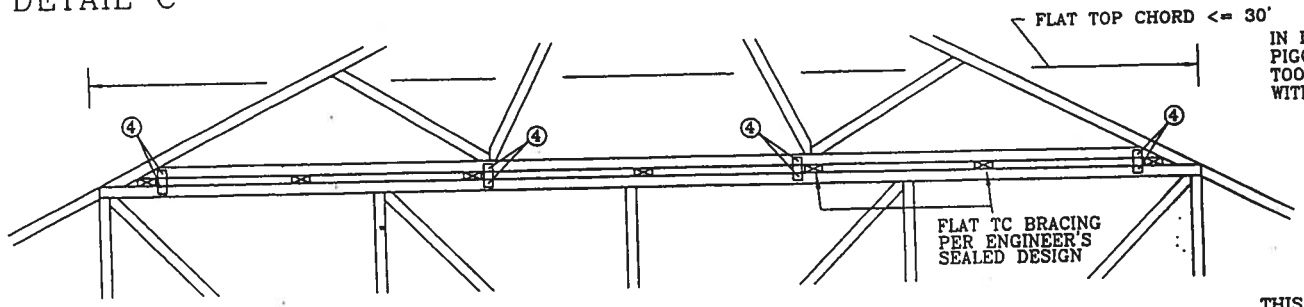
DETAIL B



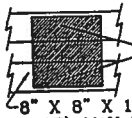
PIGGYBACK CAP TRUSS TOENAILED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"X3") NAILS AND SECURED WITH 2X4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

DETAIL C

CAP TRUSS TOENAILED TO TOP CHORD BRACING AND SECURED WITH 3X8 TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.



IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.



8" X 8" X 1/2" RATED SHEATHING GUSSETS (EACH FACE) MAY BE USED IN LIEU OF TRULOX PLATES, ATTACH WITH (8) 8d COMMON NAILS PER GUSSET, (4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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WALTER P. FINN CERTIFICATE No. 22838 STATE OF FLORIDA PROFESSIONAL ENGINEER MAR 30 2001

TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	10/24/01
BC DL	PSF	DRWG	PIGBACKA1001
BC LL	PSF	-ENG	DLJ/KAR
TOT. LD.	MAX 60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-1997 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

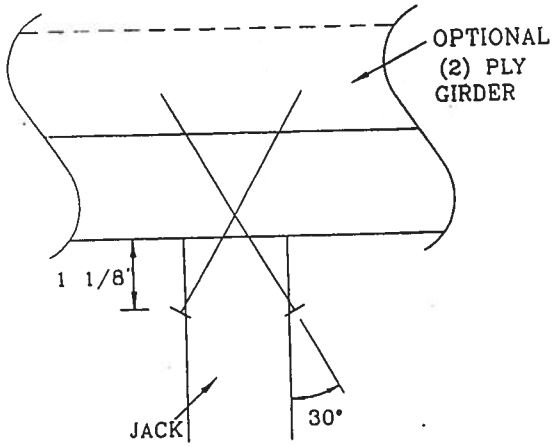
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

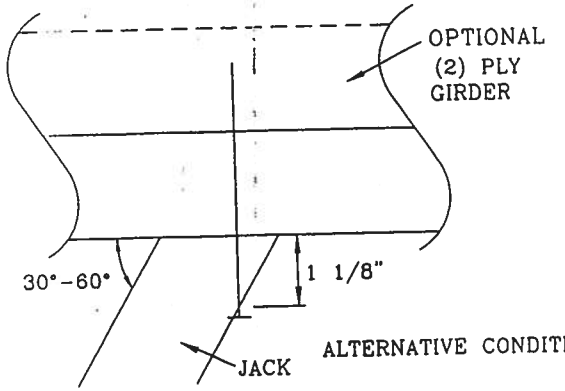
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM LATERAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

ALPINE

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WALTER P. FINN CERTIFICATE No. 22838 MAR 30 2003 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	06/25/99
BC DL	PSF	DRWG	CNTONAIL0699
BC LL	PSF	-ENG	SJP/KAR
TOT.L.D.	PSF		
DUR.FAC.	1.00		
SPACING			

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

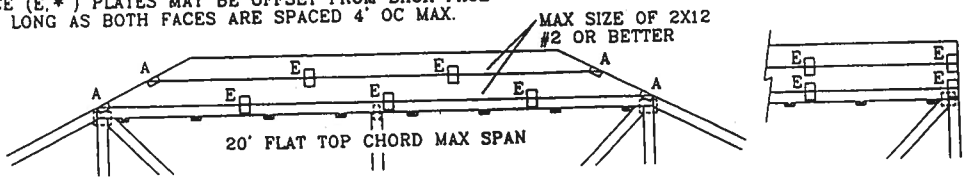
110 MPH WIND, 30' MEAN HGT, SBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

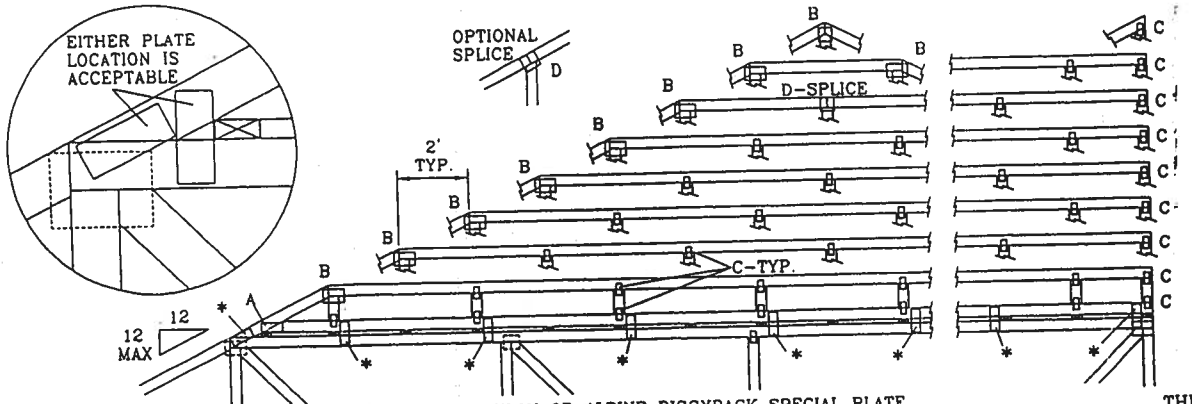
FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.



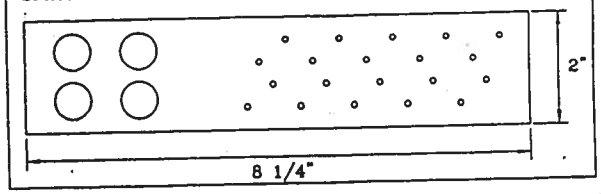
WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.



*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634.016 634,017 & 847,045

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WALTER P. FINN CERTIFICATE No. 22838 MAR 30 2001 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF	PIGGYBACK
DATE	10/24/01
DRWG	PIGBACKB1001
-ENG	DLJ/KAR

ASCE 7-93 AND 7-98: EXPOSURE C
COMMON RESIDENTIAL GABLE END WIND BRACING REQUIREMENTS - STIFFENERS

80 MPH FASTEST MILE WIND, 30 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, I=1.05, CAT I, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

OR

100 MPH 3 SECOND GUST WIND, 30 FT MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, I=1.00, CAT II, EXP C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

LATERAL CHORD BRACING REQUIREMENTS
TOP: CONTINUOUS ROOF SHEATHING
BOT: CONTINUOUS CEILING DIAPHRAGM

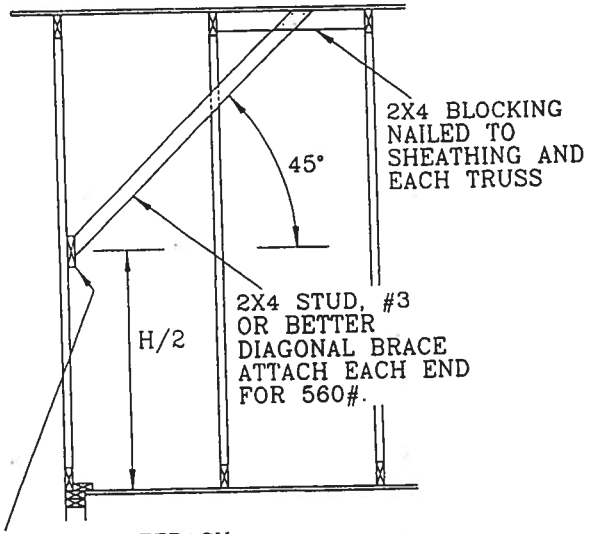
SEE ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

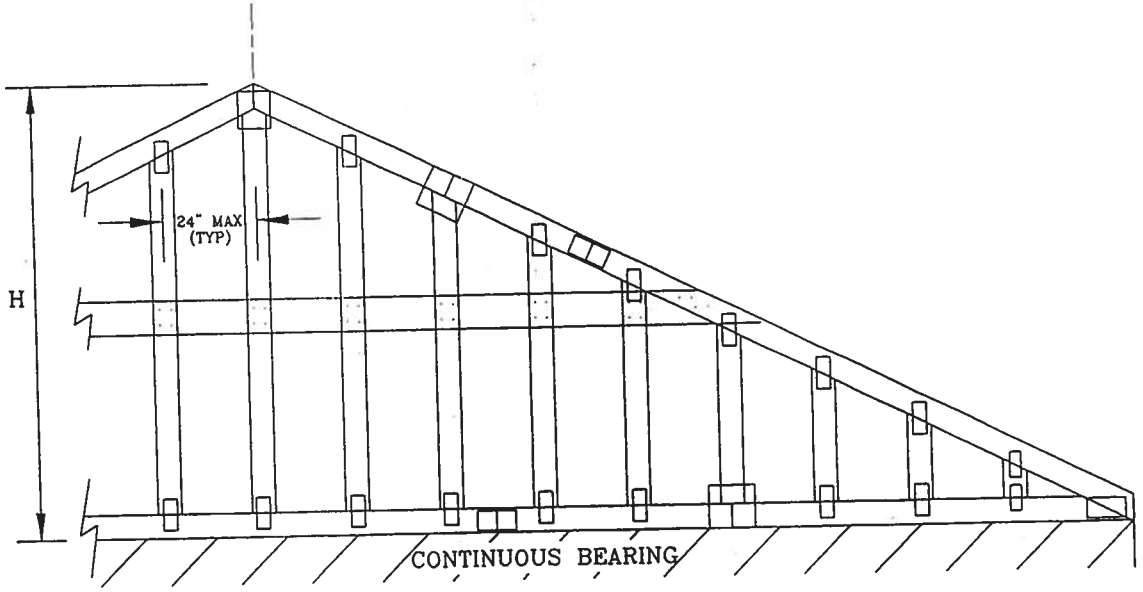
H LESS THAN 4'6" - NO STUD BRACING REQUIRED

H GREATER THAN 4'6" TO 7'6" IN LENGTH
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE STIFFBACK TO ROOF DIAPHRAGM EVERY 6'0" (SEE DETAIL BELOW OR REFER TO DRAWING A08030EN0699).

H GREATER THAN 7'6" TO 12'0" MAX:
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE TO ROOF DIAPHRAGM EVERY 4'0" (SEE DETAIL BELOW OR REFER TO DRWG A08030EN0699).

NAILS: 10d COMMON (0.148"X3")
OR 0.125"X3" GUN NAILS





THIS DRAWING REPLACES DRAWING 59469/GE

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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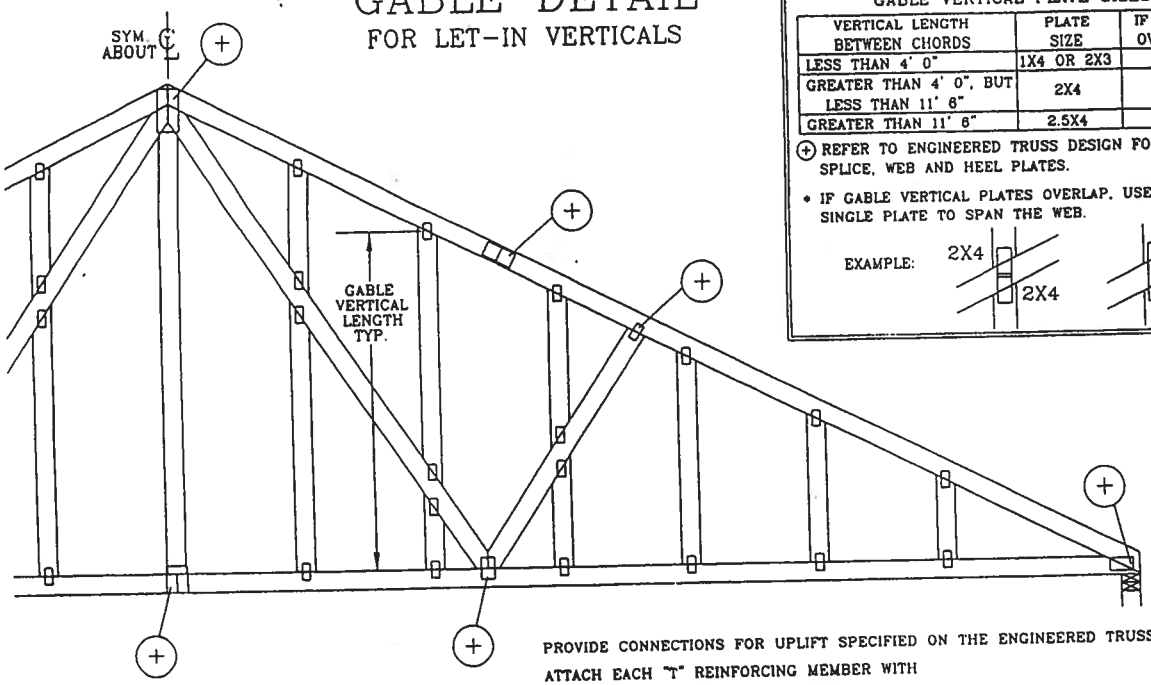
WALTER P. FINN CERTIFICATE No. 22839 MAR 28 2003 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	PSF	REF	GE WHALER
TC DL	PSF	DATE	09/18/01
BC DL	PSF	DRWG	GBLBRSTC0901
BC LL	PSF	-ENG	SJP/KAR
TOT. LD.	PSF		
DUR. FAC.			
MAX SPACING	24"		

GABLE DETAIL
FOR LET-IN VERTICALS

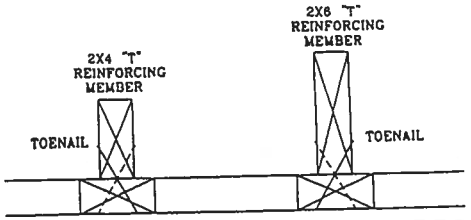


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



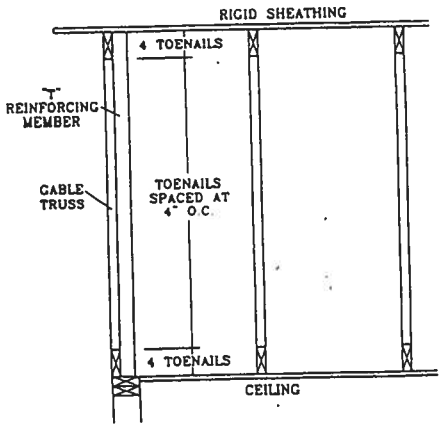
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON TOENAILS AT 4" O.C. PLUS (4) 16d COMMON TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS - 0.131" X 3":
TOENAILS AT 4" O.C. PLUS (4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0699, A10015EN0699, A09015EN0699, A08015EN0699, A07015EN0699
A11030EN0699, A10030EN0699, A09030EN0699, A08030EN0699, A07030EN0699
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0901, A12015EC0901, A11015EC0901, A10015EC0901, A08515EC0901
A13030EC0901, A12030EC0901, A11030EC0901, A10030EC0901, A08530EC0901
SBCCI GABLE DETAIL DRAWINGS
S11015EN0699, S10015EN0699, S09015EN0699, S08015EN0699, S07015EN0699
S11030EN0699, S10030EN0699, S09030EN0699, S08030EN0699, S07030EN0699

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 (HANDLING INSTALLING AND BRACING) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

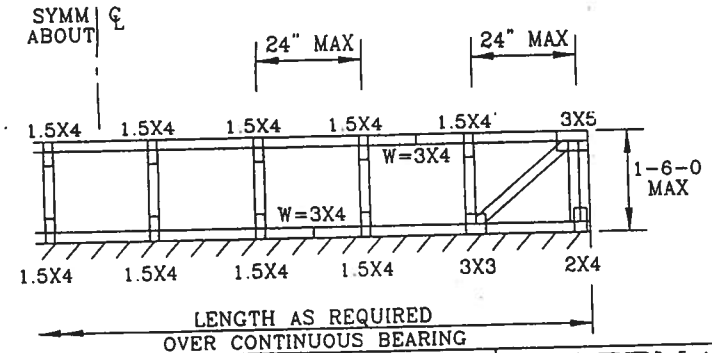
MAX TOT. LD. 60 PSF
DUR. FAC. ANY
MAX SPACING 24.0"

REF	LET-IN VERT
DATE	10/24/01
DRWG	GBLLETIN1001
-ENG	DLJ/KAR

SYSTEM42 FLOOR GABLE

TOP CHORD 4X2 SO. PINE #2, DFL #2, OR HF #1
BOT CHORD 4X2 SO. PINE #2, DFL #2, OR HF #1
WEBS 4X2 SO. PINE #3, DFL #3, OR HF#3

REFER TO DRAWING 160Z FOR TYPICAL PLATE LOCATIONS.



THIS TRUSS DESIGNED TO SUPPORT: 583 PLF

MAXIMUM UPWARD TOP CHORD LOAD IS 400 PLF, PROVIDE ANCHORAGE CONTINUOUS TO FOUNDATION.

1) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
   8'0" STUD WALL (110 PLF)
   18'0" ROOF SPAN WITH NO OVERHANG; 37 OR 40 PSF AT 1.25 DURATION, OR 47 PSF AT 1.33 DURATION

OR

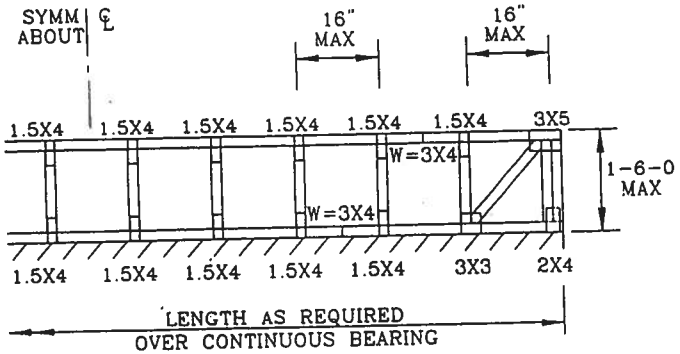
2) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
   8'0" STUD WALL (110 PLF)
   15'0" ROOF SPAN WITH NO OVERHANG; 45 OR 50 PSF AT 1.25 DURATION, OR 55 PSF AT 1.33 DURATION

DRAG LOADS MUST BE TRANSFERRED AND CARRIED BY PROPERLY ATTACHED STRUCTURAL PANELS.

SYSTEM42 FLOOR GABLE

TOP CHORD 4X2 SO. PINE #2, DFL #2, OR HF #1
BOT CHORD 4X2 SO. PINE #2, DFL #2, OR HF #1
WEBS 4X2 SO. PINE #3, DFL #3, OR HF#3

REFER TO DRAWING 160Z FOR TYPICAL PLATE LOCATIONS.



DRAG LOADS MUST BE TRANSFERRED AND CARRIED BY PROPERLY ATTACHED STRUCTURAL PANELS.

A) THIS TRUSS DESIGNED TO SUPPORT: 1000 PLF. MAXIMUM UPWARD TOP CHORD LOAD IS 600 PLF, PROVIDE ANCHORAGE CONTINUOUS TO FOUNDATION.

   1) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
      8'0" STUD WALL (110 PLF)
      31'0" ROOF SPAN WITH 2'0" OVERHANG; 37 OR 40 PSF AT 1.25 DURATION, OR 47 PSF AT 1.33 DURATION

   OR

   2) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
      8'0" STUD WALL (110 PLF)
      26'0" ROOF SPAN WITH 2'0" OVERHANG; 45 OR 50 PSF AT 1.25 DURATION, OR 55 PSF AT 1.33 DURATION

B) DOUBLE MEMBER TOP CHORD, TRUSS DESIGNED TO SUPPORT: 2038 PLF MAXIMUM UPWARD TOP CHORD LOAD IS 1300 PLF, PROVIDE ANCHORAGE CONTINUOUS TO FOUNDATION.

   1) 2'0" FLOOR LOAD 55 PSF AT 1.00 DURATION
      8'0" STUD WALL (110 PLF)
      60'0" ROOF SPAN WITH 2'0" OVERHANG; 47 OR 55 PSF AT 1.33 DURATION, OR 37, 40, 45, OR 50 PSF AT 1.25 DURATION.

NOTE: FOR DOUBLE MEMBER TOP CHORDS, CHANGE 1.5X4, 2X4, 3X3, AND 3X5 PLATES TO 2X5, 2X5, 4X4, AND 4X5 PLATES, RESPECTIVELY. 3X4 SPLICE PLATES REMAIN UNCHANGED. SPLICES OF DOUBLE MEMBER TOP CHORDS TO BE STAGGERED.

THIS DRAWING REPLACES DRAWING 657,275B

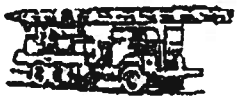
ALPINE

WALTER P. FINN CERTIFICATE No. 22838 MAR 20 2003 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	40.0	PSF	REF SY42 Floor Gable
TC DL	10.0	PSF	DATE 06/25/99
BC DL	5.0	PSF	DRWG GBLSY42B0699
BC LL	0.0	PSF	-ENG MLH/KAR
TOT.LD.	55.0	PSF	
DUR.FAC.	1.00		
SPACING	SEE ABOVE		

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

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

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

Thank you,

Donald D. Hall
DDH/jk

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

Rendered to:

SPECIALTY WINDOWS

SERIES/MODEL: Series 1900
TYPE: PVC Single Hung

Title of Test	Summary of Results
Rating	H-R50 44 x 96
Overall Design Pressure	50 psf
Operating Force	8 lbs max.
Air Infiltration	0.08 cfm/ft^2
Water Resistance	7.50 psf
Structural Test Pressure	±75.0 psf
Deglazing	Pass
Forced Entry Resistance	Pass Level 10

Reference should be made to full report for test specimen description and data.

Allen N. Reuss
30 APRIL 2002

Report No: 07-30215.02
Report Date: 04/30/02
Expiration Date: 11/08/05

Architectural Testing

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

Rendered to:

SPECIALTY WINDOWS
5520 Industrial Boulevard
Milton, Florida 32583

Report No:	07-30215.02
Test Date:	11/08/01
Report Date:	04/30/02
Expiration Date:	11/08/05

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Dayton Technologies, LLC to witness tests performed on one Dayton Series/Model 190.093 SH, PVC single hung window at their Monroe, Ohio, facility. The sample tested successfully met the performance requirements for a H-R50 44 x 96 rating. This test report is a reissue of the original report 07-30215.01. This report is issued in the name of Specialty Windows through written authorization of Dayton Technologies, LLC. Test specimen descriptions and results are reported herein.

Test Procedure: 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: Series 1900

Type: PVC Single Hung Window

Overall Size: 3' 7-7/8" wide by 7' 11-3/4" high

Sash Size: 3' 4-3/4" wide by 2' 4-1/2" high

Fixed Daylight Opening Size: 3' 2-3/8" wide by 5' 2-3/4" high

Screen Size: 3' 3-1/4" wide by 2' 3-9/16" high

Glass Type: Nominal 3/4" thick insulating glass fabricated from two sheets 1/8" thick clear tempered sheets with a spacer system.

Reinforcement: Aluminum reinforcement was utilized in fixed meeting rail and bottom lift rail. See Dayton Technologies drawings #6189 and #A6202.

Finish: White PVC.

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

Allen N. Reeves
30 APRIL 2002

Test Specimen Description: (Continued)

Glazing Details: The fixed sash was interior wet glazed with silicone and secured with interior PVC snap in beads. The operable sash were exterior wet glazed with silicone with exterior and secured with exterior PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
Bulb (P82060-F)	1 Row	Lift rail
0.290" high by 0.187" back pile with center fin	1 Row	Sill and operable sash meeting rail
0.290" high by 0.187" back pile with center fin	2 Rows	Bottom sash stile

Frame Construction: The frame was constructed of extruded PVC members with mitered and thermally welded corners. The fixed meeting rail was secured with #6 by 1-1/2" steel screws through exterior of jamb into aluminum reinforcement at midpoint of jambs (two total).

Sash Construction: The sash was constructed of extruded PVC members with mitered and thermally welded corners.

Screen Construction: The screen frame was constructed of extruded aluminum with PVC corner keys. Fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Cam lock	2	8" from jambs, 25" apart
Tilt latch	2	Upper sash corners
Tilt pin	2	Lower sash corners
Coil balance	2	One in each jamb

Allen N. Reeves
30 APRIL 2002

Test Specimen Description: (Continued)

Drainage: Sloped sill

Description	Quantity	Location
1" wide by 1/8" high weepslot	2	Screen slot
3/8" wide by 3/16" high weepslot	2	Bottom lift rail
1/4" hole	2	Fixed meeting rail

Installation: The test sample was installed into a nominal 2" by 12" #2 Southern pine wood buck with #6 by 1-1/2" steel screws into jambs, 6" up from sill and 6" down from head, (four total). Exterior perimeter was sealed with silicone.

Test Results: The results are tabulated as follows.

Paragraph	Title of Test	Results	Allowed
2.2.1.6.1	Operating Force Lower Sash	8 lbs	30 lbs max.
2.1.2	Air Infiltration (ASTM E 283-91) (See Note #1) @ 1.56 psf (25 mph)	0.08 cfm/ft^2	0.30 cfm/ft^2 max.
2.1.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) @ 15.0 psf (positive) @ 15.0 psf (negative)	 0.17" 0.16"	 0.22" max. 0.22" max.
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) @ 22.5 psf (positive) @ 22.5 psf (negative)	 0.02" 0.02"	 0.15" max. 0.15" max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration

Allen N. Reese
30 APRIL 2002

Test Results: (Continued)

Paragraph	Title of Test	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction @ 70 lbs		
	Lower Sash		
	Meeting Rail	0.04"/8%	0.50"/100%
	Bottom Rail	0.04"/8%	0.50"/100%
	In remaining direction @ 50 lbs		
	Right stile	0.02"/4%	0.50"/100%
	Bottom Rail	0.02"/4%	0.50"/100%
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance (ASTM F 588-97) (Unit was tested with single and double locks)		
	Type A Grade 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance:			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP =7.50 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 50.0 psf (positive)	0.69"*	0.22" max.
	@ 50.0 psf (negative)	0.64"*	0.22" max.
4.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail)		
	@ 75.0 psf (positive)	0.15"	0.15" max.
	@ 75.0 psf (negative)	0.15"	0.15" max.

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

Allen N. Reese
30 APRIL 2002

This report is reissued in the name of Specialty Windows through written authorization of Dayton Technologies, LLC to whom the original report was rendered. The original Dayton Technologies, LLC Report No. is 07-30215.01.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC.:

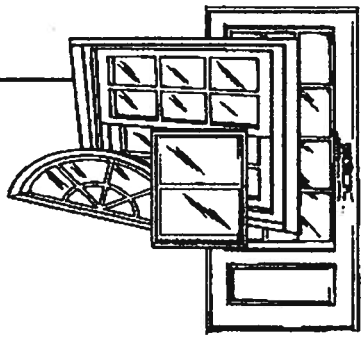
Larry D. Mankin
Technician

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

LDM:nlb
07-30215.02

CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822
(407)-384-7744 • Fax (407)-384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch@bellsouth.net



Report Number: CTLA-619W
Report Date October 26, 2000

STRUCTURAL PERFORMANCE TEST REPORT

Client: **Specialty Window of Florida**
690 Heinberg Street
Pensacola, Florida 32501

Product Type and Series: Series Vinyl Fin Frame Picture Window F-HC 80 (85" x 85")

Test Specifications: AAMA/NWWDA 101/I.S. 2-97 "Voluntary Specification for Aluminum Vinyl (PVC) and Wood Window and Glass Door".

Test Specimen

Frame: The vinyl fin frame measured 85.25" x 85.25" overall, miter and welded corner construction. With clear lite opening measuring 82" x 82".

Glazing: 1/4" Tempered glass. Interior glazed with silicone backbedding compound.

Sealant: Silicone caulk was used on perimeter of main frame

Weepholes: N/A

Reinforcement: N/A

Additional Description: N/A

Screen: N/A

Installation: Fifty six (56) # 10 x 2" phillips pan head were used to secure the specimen to the wooden test buck. Fourteen (14) in each of the main frame member located 4",11",15",23",29",35",41",47", 53",59",65",71",77",and 83", measuring from left to right head and sill and measuring from head to sill on jambs.

Surface Finish: White

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @ 6.24 psf	ASTM E283-91	.0 cfm/ft²	.3 cfm/ft²
	The tested specimen exceeds the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for Air Infiltration.			
2.1.3/4.3	Water Resistance 5.0 gph/ft²	ASTM E547-93 Four (4), five minute cycles	No Entry	No Entry
	WTP=12PSF	ASTM E331-93 Fifteen (15)minute duration	No Entry	No Entry
2.1.4.2/4.4.2	Uniform Load Structural Permanent Deformation	ASTM E330-90 Ten (10) seconds loads		
	@ 120 psf Positive		.00"	.336"
	@ 120 psf Negative		.00"	.336"
2.1.7	Corner Weld Test	AAMA 101/I.S.2-97	Passed	Passed
2.1.8	Forced Entry Resistance T-1 = 10 minutes.	ASTM F588-97 Test D Window Assemblies	Passed	Passed
	Tools used: A spatula (10.1.1.1) and a piece of stiff wire (10.1.1.2) The test specimen meets the performance Grade 40			

Test Date: October 17, 2000

Test Completion Date: October 17, 2000

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the clients is accurate and that the physical and chemical properties of the components as stated by the manufacture.

Certified Testing Laboratories, Inc.

Christopher Bennett
Lab Manager
Architectural Division

P.E.
11/7/00

cc NAMI (2)
Specialty (2)
Ramesh Patel P.E.
File

received
3.27.02

Underwriters Laboratories Inc.®

333 Pfingsten Road
Northbrook, Illinois 60062-2096
United States Country Code (1)
(847) 272-8800
FAX No. (847) 272-8129
http://www.ul.com

March 4, 2002

GAF Materials Corporation
Mr Randall Ziegler
1361 Alps Road
Wayne, NJ 07470

Our Reference: RJ21

Subject: UL Listed products

Dear Mr Ziegler:

This is is response to your request to identify some of the products that are curently Listed with Underwriters Laboratories relating to various Standards. Following are those products:

Royal Sovereign®
Marquis®/Marquis® WeatherMax®
SLATELINE®
Grand canyon™
Grand Sequoia®
Country Mansion™
Country Estates™
Timberline 30™
Timberline Select™ 40
Timberline Ultra™
Sentinel®
The above products have been tested to ASTM D3462 , Class A UL790/ASTM E108 and UL 997/ ASTM D3161(secured with 4 nails)with velocities up to 110 mph and have successfully met those test criteria.

If you have any questions please feel free to contact the writer.

Very truly yours,

Roger Anderson (Ext. 43283)
Senior Engineering Associate
Conformity Assessment Services- 3011E-NBK

Reviewed by,

Douglas C. Miller (Ext. 43262)
Engineering Group Leader
Conformity Assessment Services- 3011E-NBK

** TOTAL PAGE.01 **

GAF®
GAF MATERIALS CORPORATION

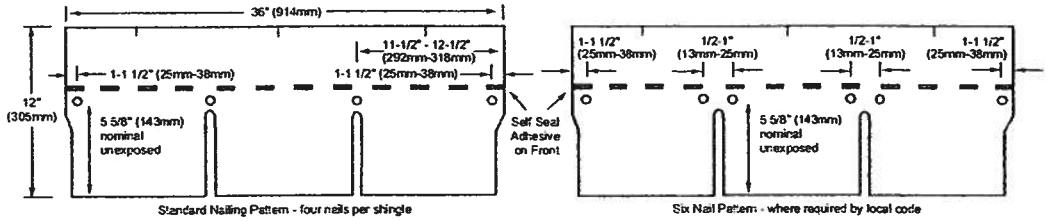
MARQUIS® WeatherMax® SHINGLES

ROYAL SOVEREIGN® SHINGLES

SENTINEL® SHINGLES

APPLICATION INSTRUCTIONS

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



Standard Nailing Pattern - four nails per shingle

Six Nail Pattern - where required by local code

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 F.H.A., H.U.D. or local code minimum requirements.

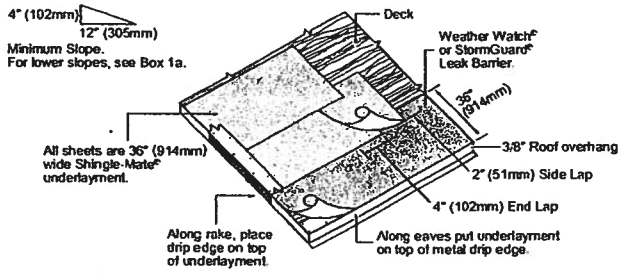
• **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

• **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

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

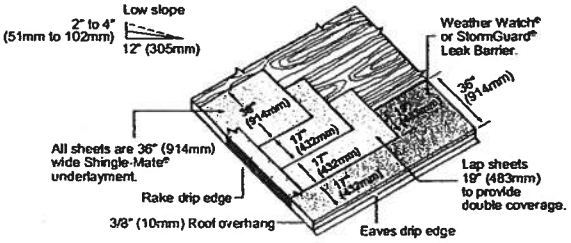
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

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



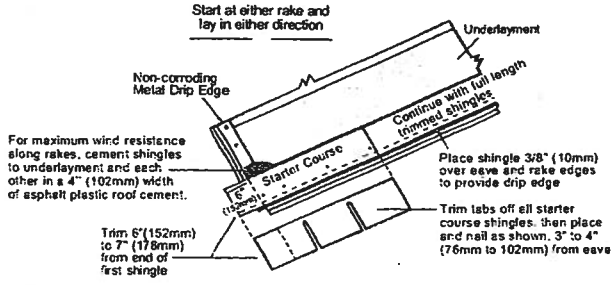
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

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



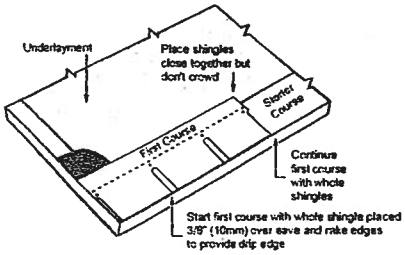
2 Starter Course

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



3 First Course

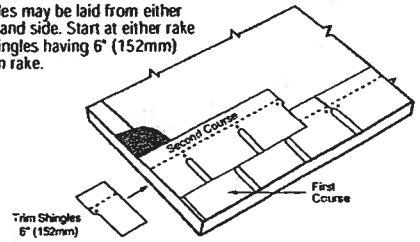
Start and continue with full shingles laid flush with the starter course. Shingles may be laid from left to right or right to left. DO NOT lay shingles straight up the roof since this procedure can cause an incorrect color blend on the roof and may damage the shingles.



4 Second Course

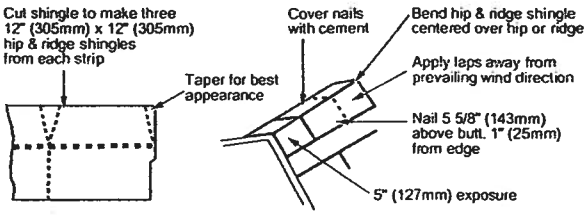
Start and continue second course and all even numbered courses as shown. Position the shingle on the top of the cutouts of the underlying shingle so that there will be 5" (127mm) of each shingle exposed. Strike a chalk line about every 6 courses to check parallel alignment with eaves. Factory applied 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.

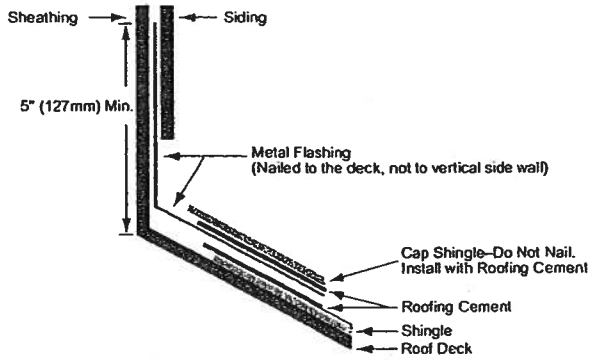


5 Hip and Ridge

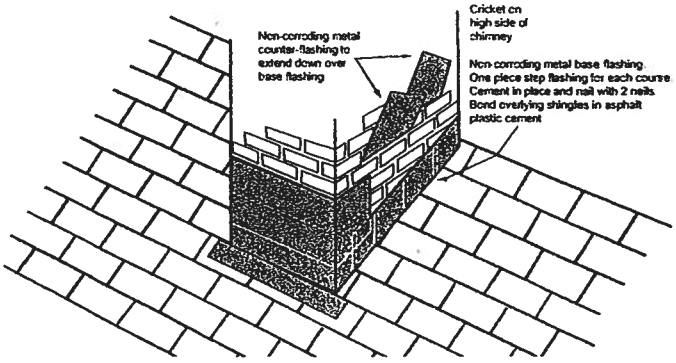
Use GAF hip & ridge shingles, or cut hip & ridge shingles from these full shingles, and apply as shown. Position laps away from prevailing wind direction.



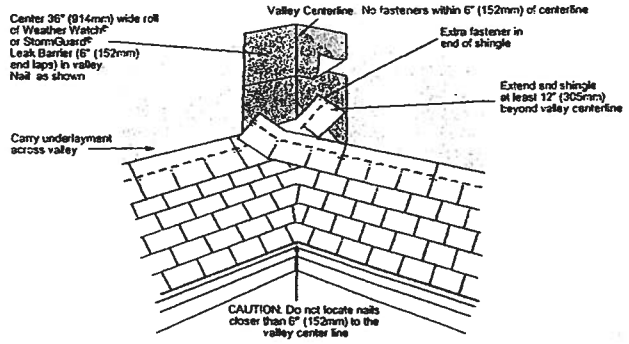
6 Wall Flashing (Sloped Roof to Vertical Wall)



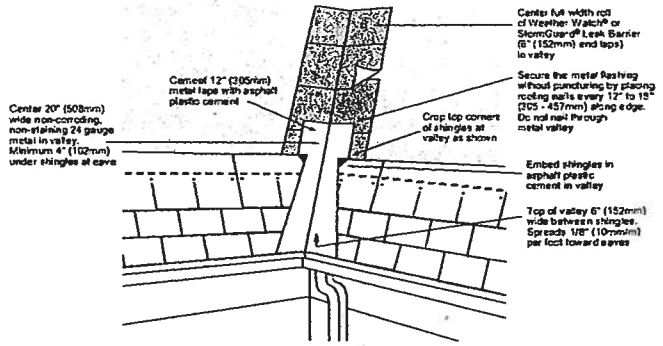
7 Chimney Flashing



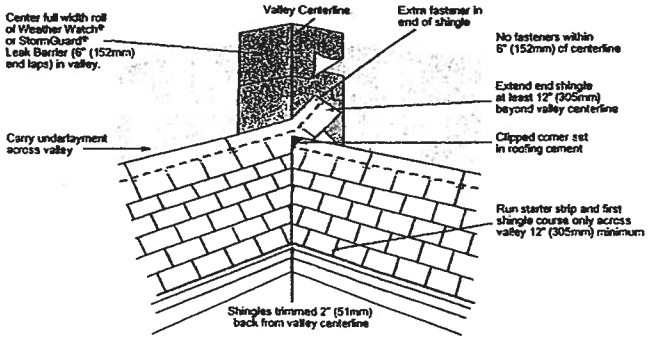
8 Valley Construction - Closed or Woven Valley



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.

ENGLISH 110600

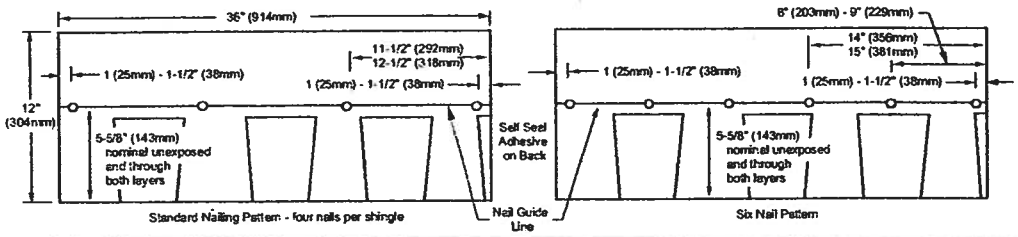
GAF®
GAF MATERIALS CORPORATION

TIMBERLINE® Ultra® SHINGLES
TIMBERLINE® SELECT 40 SHINGLES
TIMBERLINE® 30 SHINGLES

APPLICATION INSTRUCTIONS

Timberline® Series shingles come in either 36" (914mm) or 36-15/16" (938mm) lengths, depending on shingle brand. Application instructions apply to both.

These shingles must be nailed a nominal 5-5/8" (143mm) from bottom of shingles, as shown, to allow for penetration through the double ply area just above the tabs. 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 beneath shingles has many benefits, including preventing wind driven rain from reaching the interior of the building and preventing sap in some wood decking from reacting with asphalt shingles. Underlayment is also required by many code bodies. Consult your local building department for its requirements. Where an underlayment is to be installed, a breather-type underlayment such as GAFMC's Shingle-Mate® underlayment is recommended. Underlayment 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, to penetrate both layers 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 4 quarter-sized dabs of shingle tab adhesive on the back of the shingle 1" (25mm) and 13" (330mm) in from each side and 1" (25mm) up from bottom of the shingle. 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 123.5-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 4 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 F.H.A., H.U.D. or local code minimum requirements.

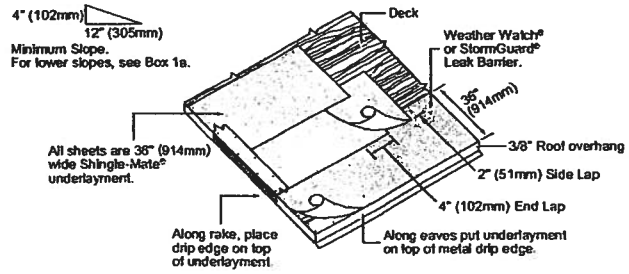
• **NON-CORRODING METAL DRIP EDGES:** Recommended along rake and eave edges on all decks, especially plywood decks.

• **ASPHALT PLASTIC CEMENT:** For use as shingle tab adhesive. Must conform to ASTM D4586 Type I or II.

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

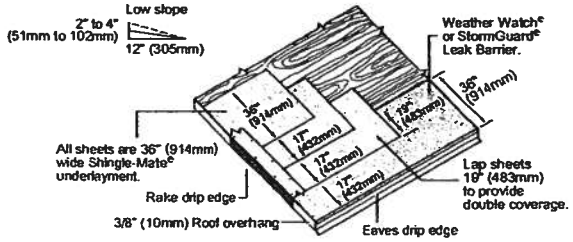
Application of underlayment: Cover deck with one layer of underlayment installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.

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



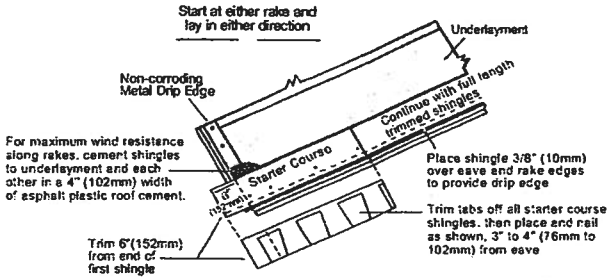
1a Underlayment: Low Slope 2/12-4/12 (167mm-333mm/m)

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



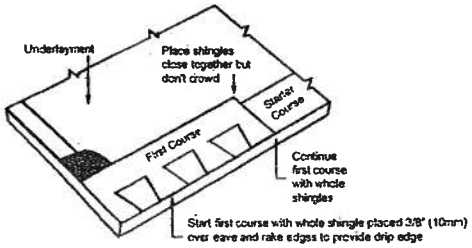
2 Starter Course

Apply as shown.



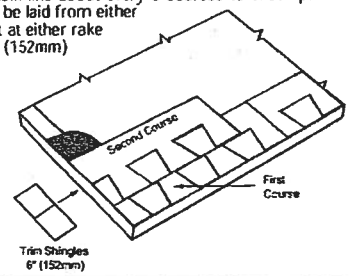
3 First Course

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.



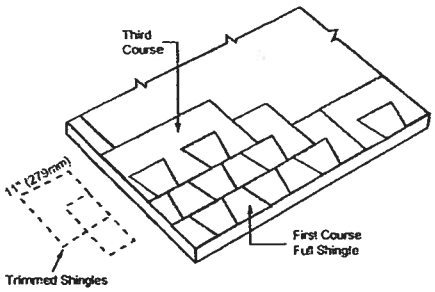
4 Second Course

Start and continue second course as shown. Trim 6" (152mm) from the end of the shingle. Position the shingles in the second and subsequent courses flush with the tops of the wide cutouts. This results in a 5" (127mm) exposure. Continue with full width shingles across the roof. Strike a chalk line about every 6 courses to check parallel alignment with eaves. 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.



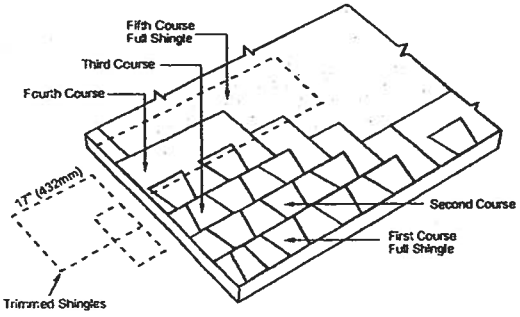
5 Third Course

Trim 11" (279mm) from the first shingle in the course then continue with full shingles across the roof.



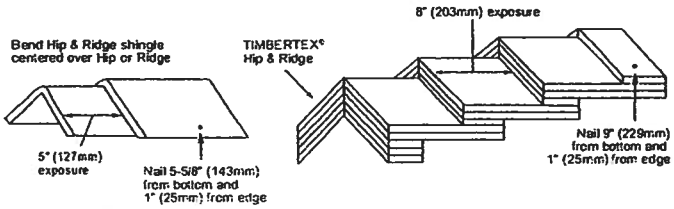
6 Fourth Course and Remaining Courses

Trim 17" (432 mm) from first shingle in the course, then continue with full shingles across the roof. Fifth and subsequent courses repeat full shingle instructions from Step 3.

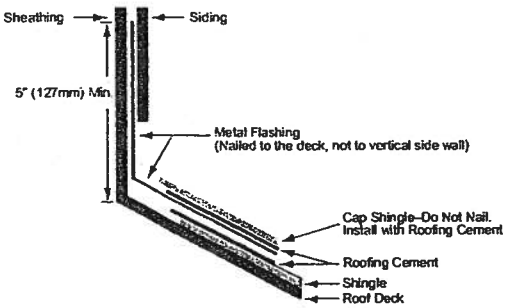


7 Hip and Ridge

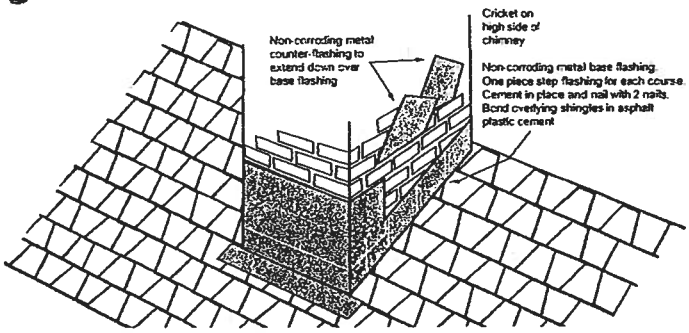
For single layer application, use hip and ridge shingles and apply as shown. To enhance appearance, use GAF TIMBERTEX® or a double layer application of Universal Hip & Ridge. (One bundle of TIMBERTEX® Hip & Ridge covers 20 lineal ft.–6.1 meters.) For double application, start with triple thickness of precut Hip & Ridge shingles and continue remainder with double thickness. Fasten in same manner as single application shown. Apply laps away from prevailing wind direction.



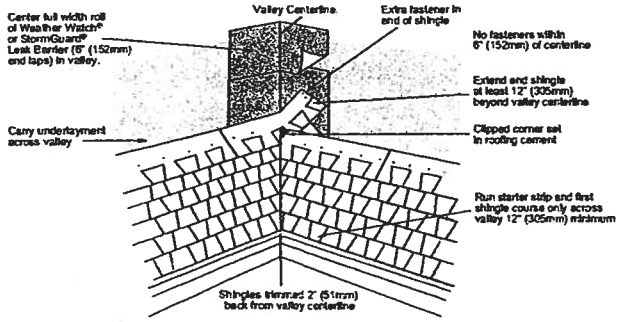
8 Wall Flashing (Sloped Roof to Vertical Wall)



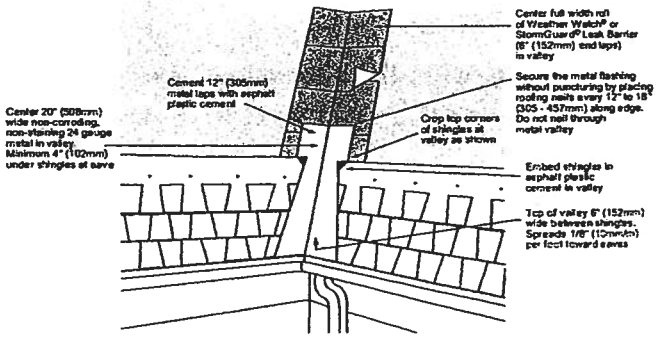
9 Chimney Flashing



10 Valley Construction–Closed Cut



11 Valley Construction–Open



Precautionary Notes

Timberline® Series 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.

This product is sold with an express LIMITED WARRANTY only. A copy of the LIMITED WARRANTY stating its terms and restrictions is printed on the product wrapper or may be obtained from the distributor of this product or directly from GAF Materials Corporation. Any deviation from printed instructions shall be the responsibility of applicator and/or specifier.

TAMKO
ROOFING PRODUCTS

received
3.27.02

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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

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

All testing was performed by Florida State certified independent labs.

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

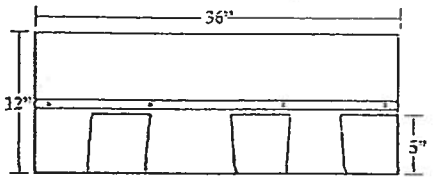
TAMKO Roofing Products, Inc.

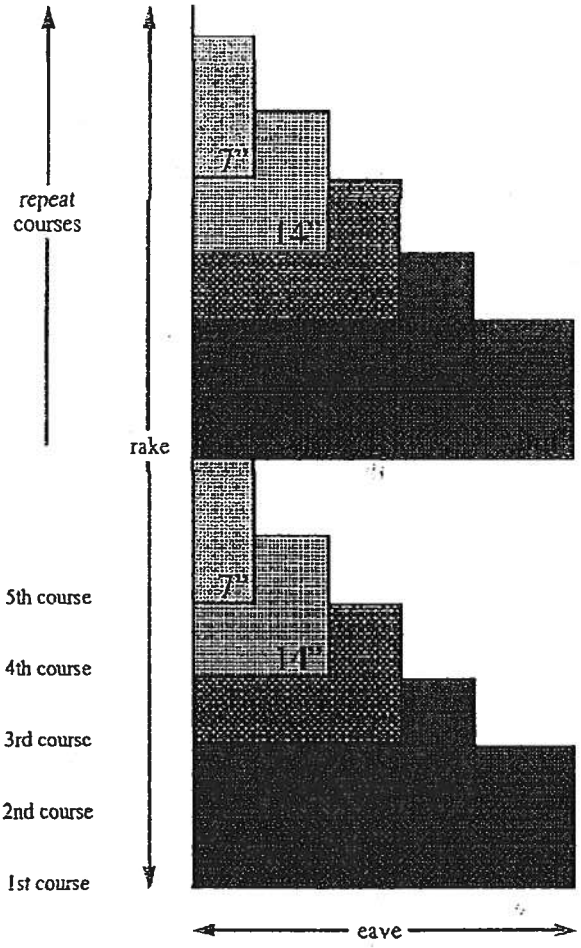
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

TAMKO®
ROOFING PRODUCTS

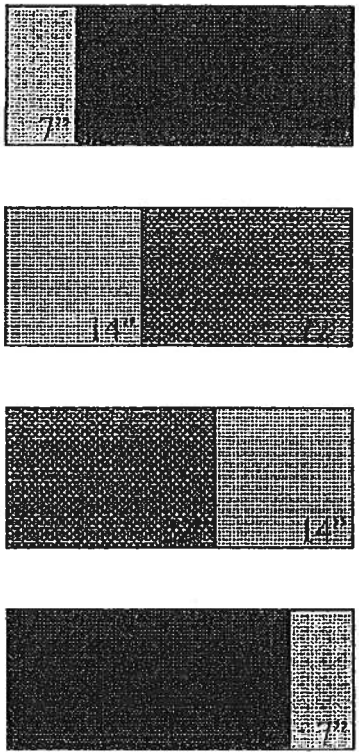
Application Instructions For Heritage® 40 & 30 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	36"
Width	12"
Bundles per Sq.	4
Shingles per Sq.	80
Shingles per Bundle	20
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:



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

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

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

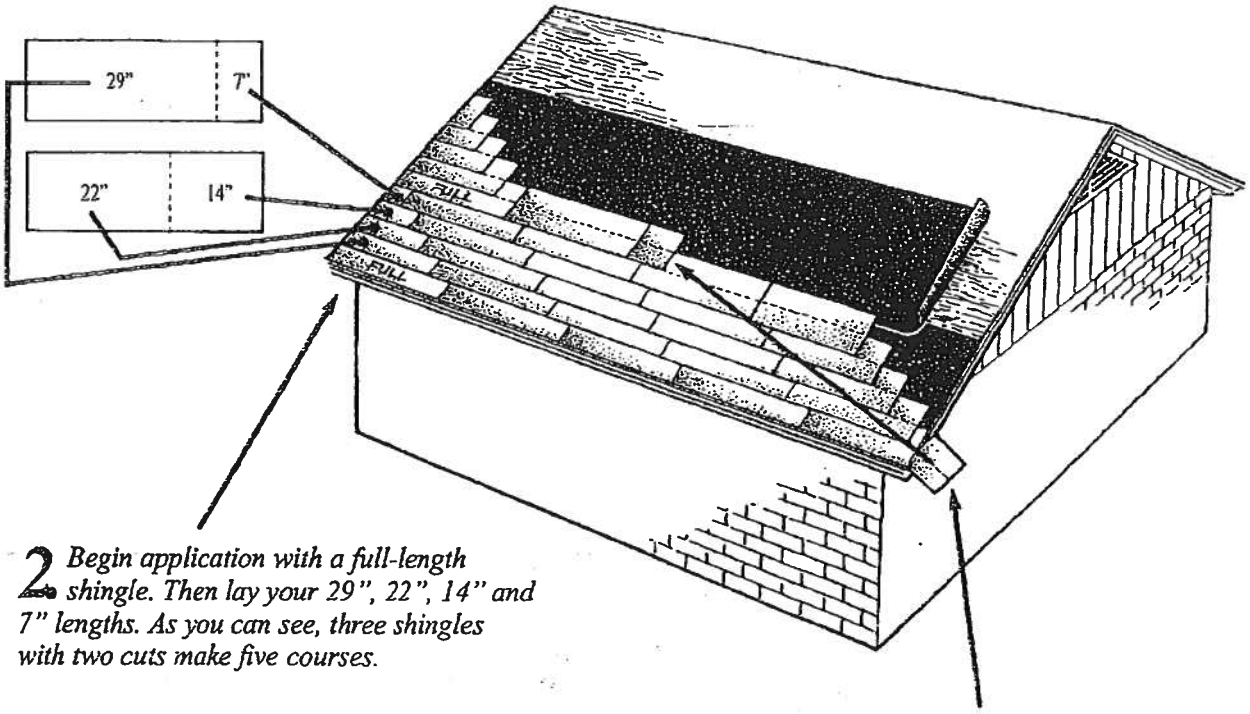
NOTE: These application instructions apply only to Heritage 40, Heritage 30, Heritage 40 AR, and Heritage 30 AR shingles.

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 40 & 30 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and a 7" length. Cut a second shingle to make a 22" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 22", 14" and 7" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

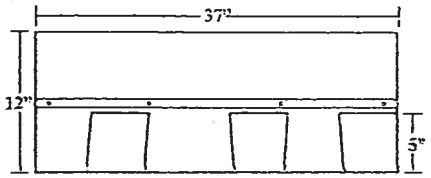
NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

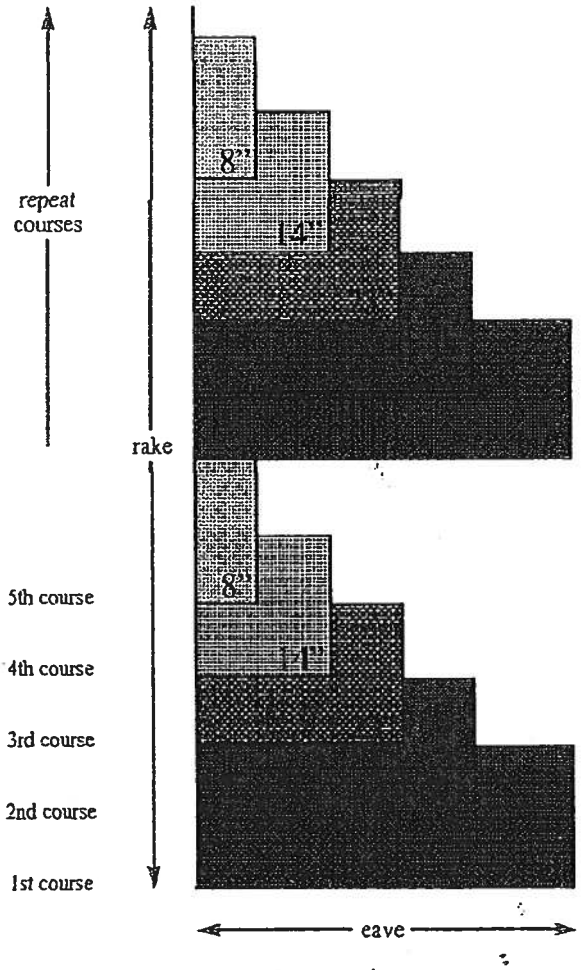
997494

TAMKO
ROOFING PRODUCTS

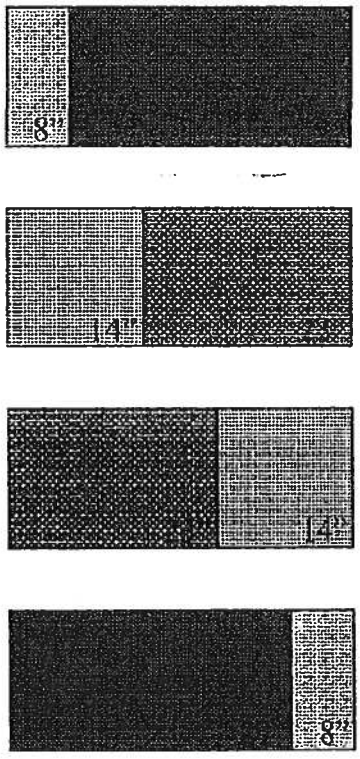
Application Instructions For Heritage® 25 Series Shingles

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





The 4 cuts in the first 10 courses:



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

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

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

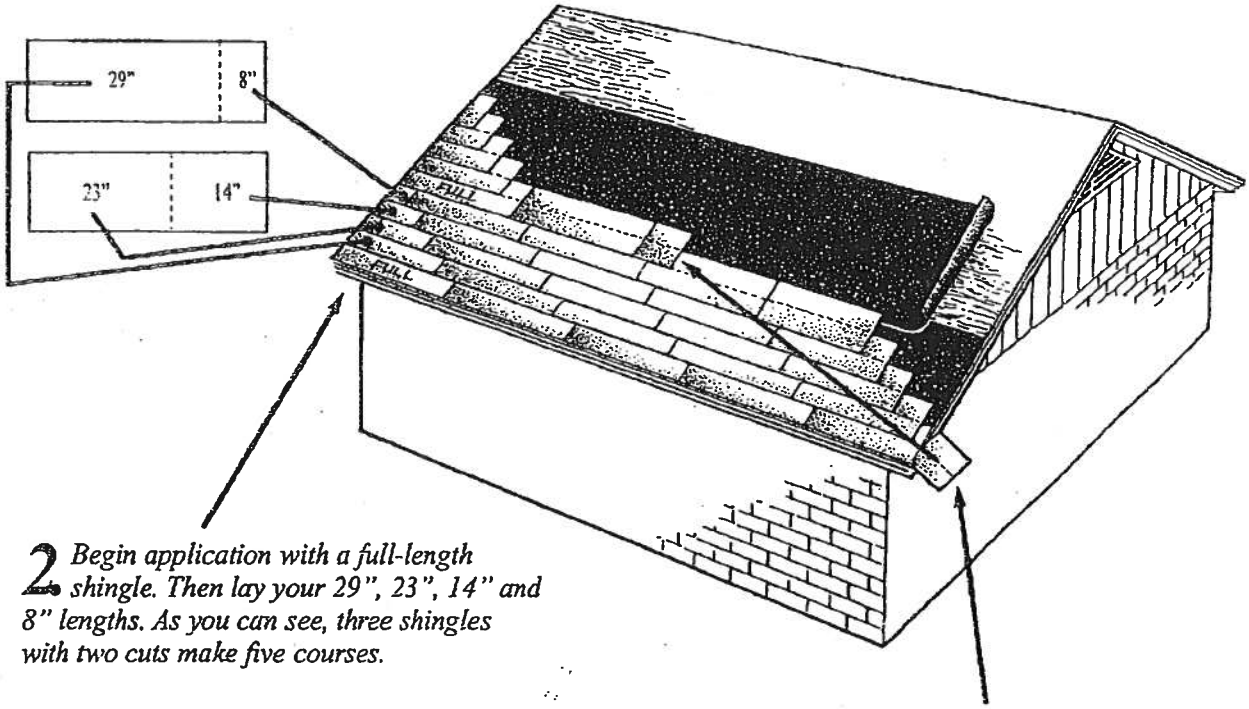
NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 25 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and an 8" length. Cut a second shingle to make a 23" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 23", 14" and 8" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

997493

TAMKO®
ROOFING PRODUCTS

Application Instructions for

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

THREE-TAB ASPHALT SHINGLES

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

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

1. ROOF DECK

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

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

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

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

2. VENTILATION

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

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.
FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

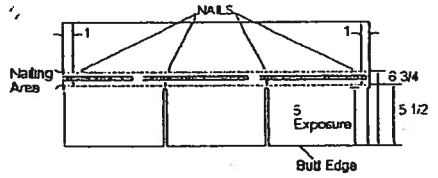
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

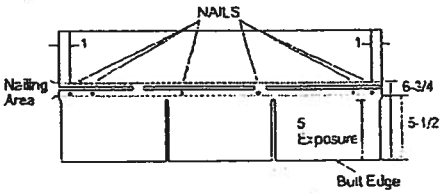
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

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

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



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



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

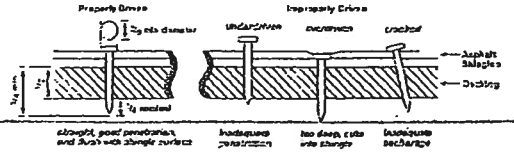
(Continued)

(CONTINUED from Pg. 1)

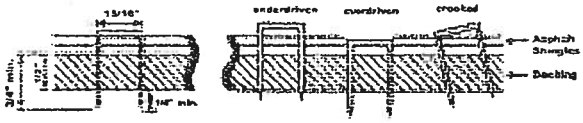
• Glass-Seal • Elite Glass-Seal®
• Glass-Seal AR • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

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



STAPLES: If staples are used in the attaching process, follow the above instructions for placement. All staples must be driven with pneumatic staplers. The staple must meet the following minimum dimensional requirements. Staples must be made from a minimum 16 gauge galvanized wire. Crown width must be at least 15/16 in. (staple crown width is measured outside the legs). Leg length should be a minimum of 1-1/4 in. for new construction and 1-1/2 in. for reroofing thus allowing a minimum deck penetration of 3/4 in. The crown of the staple must be parallel to the length of the shingle. The staple crown should be driven flush with the shingle surface. Staples that are crooked, underdriven or overdriven are considered improperly applied.



CAUTION: DO NOT FASTEN INTO THE FACTORY APPLIED ADHESIVE.

4. UNDERLAYMENT

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

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I
- Any TAMKO non-perforated asphalt saturated organic felt

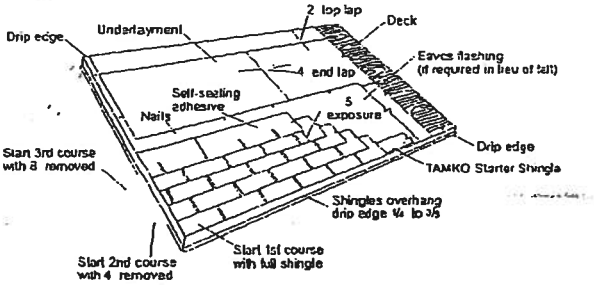
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: A starter course may consist of TAMKO Shingle Starter, self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. Attach the starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eaves edge. The starter course should overhang both the eaves and rake edges 1/4 in. to 3/8 in. If a roll roofing is used, seal down the shingles in the first course by applying adhesive cement in four spots equally spaced to the surface of the starter strip and press the shingle down on the spots of cement. Plastic cement should be used sparingly, as excessive amounts may cause blistering.

SHINGLE APPLICATION: There are three different offset methods for applying strip shingles: the 4-inch method, the 5-inch method and the 6-inch method. By removing different lengths from the first shingle, cutouts in one course of shingles do not line up directly with those of the course below. It is recommended that the shingles be laid according to one of these methods consistent with procedures outlined in ARMA's Residential Asphalt Roofing Manual. This panel will feature the 4-inch method. For information regarding the other methods, please refer to the ARMA Residential Asphalt Roofing Manual.
CAUTION: Never use an alignment system where shingle joints are closer than 4 in. to one another.



6. LOW SLOPE APPLICATION

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

7. MANSARD ROOF OR STEEP SLOPE ROOF

If the slope exceeds 21 in. per foot (60°), each shingle must be sealed

(Continued)

(CONTINUED from Pg. 2)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

8. RE-ROOFING

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

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

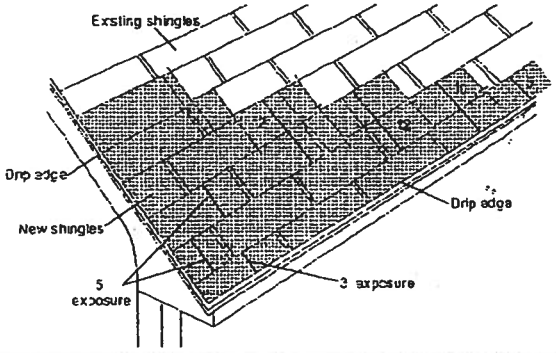
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

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

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

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.



9. VALLEY APPLICATION

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

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

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

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

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

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

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

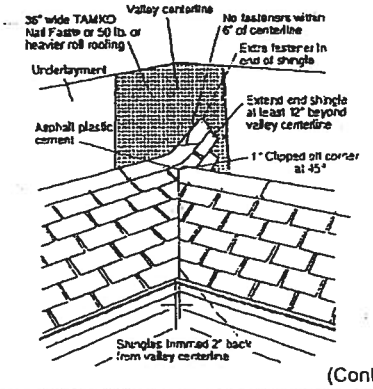
Note: For a neater installation, snap a chalkline over the shingles for guidance.

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

- ***CAUTION:*** *Adhesive must be applied in smooth, thin, even layers.*

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



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(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

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

10. HIP AND RIDGE FASTENING DETAIL

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

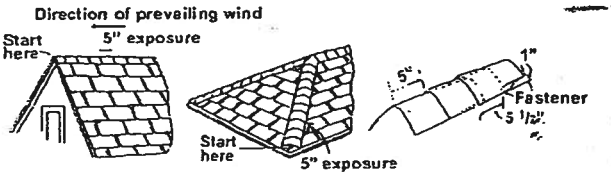
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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

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

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

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



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

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

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

ELK Premium Roofing

March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:
ASTM D3462
PA 100 (110 mph uplift and wind driven rain resistance)
PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –
PA 100 = 4 nails
PA 107 = 5 nails
MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –
PA 100 = 4 nails
PA 107 = 4 nails
MD NOA# = 01-1226.03

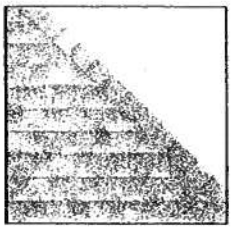
Capstone*
PA 100 = 4 Nails
PA 107 = 4 Nails
MD NOA# = 01-0523.01
* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

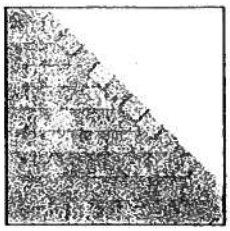
Mike Reed – Technical Manager
(205) 342-0287

or

Daniel DeJarnette – QA Engineer
(205) 342-0298



PRESTIQUE®
HIGH DEFINITION®



RAISED PROFILE™

High Definition

Product size	13¼"x 39¼"	50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅛"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	11	

Product size	13¼"x 38¾"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅛"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

High Definition

Product size	13¼"x 39⅜"	40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅛"	
Pieces/Bundle	16	
Bundles/Square	4/98.5 sq.ft.	
Squares/Pallet	14	

High Definition

Product size	13¼"x 38¾"	30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.
Exposure	5⅛"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq.ft.	
Squares/Pallet	16	

HIP AND RIDGE SHINGLES

Size: 12"x 12"
Exposure: 6⅛"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood. Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

***See actual limited warranty for conditions and limitations.**
****Check for product availability.**

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes [4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

SOUTHEAST & ATLANTIC OFFICE:
800.945.5551

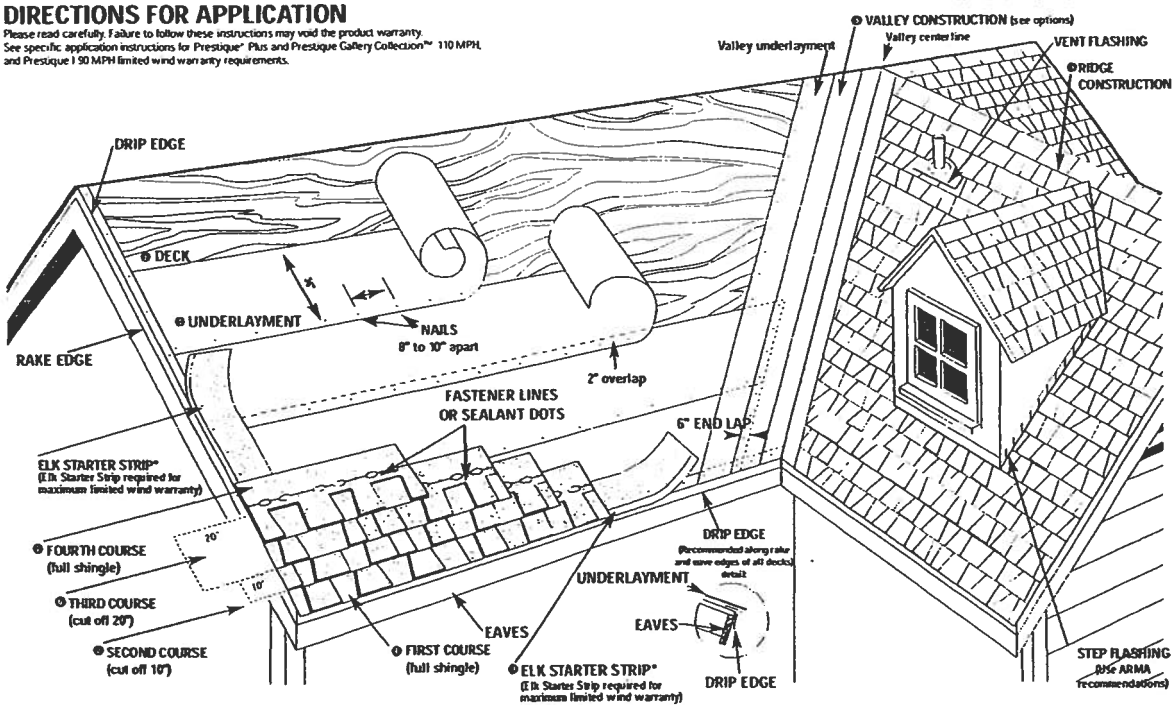
CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

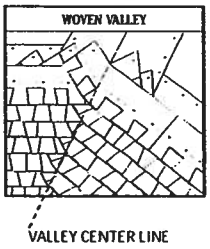
ELK
www.elkcorp.com

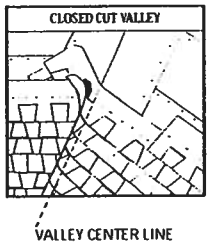
DIRECTIONS FOR APPLICATION

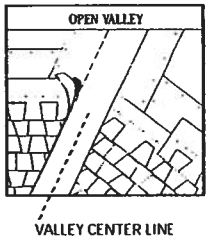
Please read carefully. Failure to follow these instructions may void the product warranty.
See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH and Prestique I 90 MPH limited wind warranty requirements.



⓫ VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.







DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

❻ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

❾ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

❽ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

⓫ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

⓬ RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula *FLX*™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12 gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

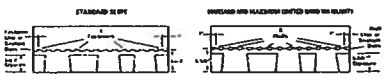
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

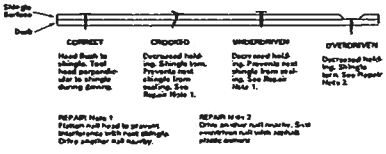
LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK

www.elkcorp.com

Lake City Glass, Inc.

P. O. Box 114 ~ Lake City, FL 32056
Phone 386-752-6204 ~ Fax 386-752-5952 ~ Email lcglass@isgroup.net
1-877-735-7720

April 08, 2002

To: All Contractors

Since the new windload code has been enforced for the State of Florida we have had several calls wanting information regarding the test reports and pricing. The following prices and enclosures should answer most of your questions. However, if you need further information please contact myself or Carl Bullard, Jr. We will be happy to assist you.

Contractor Prices:
Stratford Series

16 x 7 Raised Panel Steel Door (non-windload)	$425.00
9 x 7 Raised Panel Steel Door (non-windload)	$325.00
8 x 7 Raised Panel Steel Door (non-windload)	$295.00

For 110 mph windload add:

16 x 7	$125.00
9 x 7	$ 45.00
8 x 7	$ 45.00

Note glass, inserts, and insulation are extra, please call for pricing. The above prices do not include sales tax.

Sincerely,

Mandie Jo Page, Office Manager

Enc.: 4
cc: file

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade 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 this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

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

ACCEPTANCE NO.: 01-0314.24
EXPIRES: 04/02/2006

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: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.24

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This **renews** the Notice of Acceptance No. 00-0321.26 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series **Entergy 6-8 S-W/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only** and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EW-1, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11 00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall 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 only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

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):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

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

6. BUILDING PERMIT REQUIREMENTS

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

6.1.1 This Notice of Acceptance

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

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

Manuel Perez

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

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.24

APPROVED : JUN 0 5 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, 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, including 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 office.

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 purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed 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 needs 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.

END OF THIS ACCEPTANCE

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

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jeferson, P.O. Box 76
Pittsburgh ,KS 66762

Your application for Notice of Acceptance (NOA) of:
Entergy 6-8 S-W/E Outswing Opaque Single w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade 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 this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

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

ACCEPTANCE NO.: 01-0314.21
EXPIRES: 04/02/2006

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: 06/05/2001

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.23 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S-W/E Outswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-O, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door with Sidelites in a Wood Frames with Bumper Threshold (Outswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

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):

4.2.1 Door: the installation of this unit **will not require** a hurricane protection system.

4.2.2 Sidelite: the installation of this unit **will require** a hurricane protection system.

5. LABELING

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

6. BUILDING PERMIT REQUIREMENTS

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

6.1.1 This Notice of Acceptance

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

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

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

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.21

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, 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, including 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 office.

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 purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed 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.

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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.

END OF THIS ACCEPTANCE

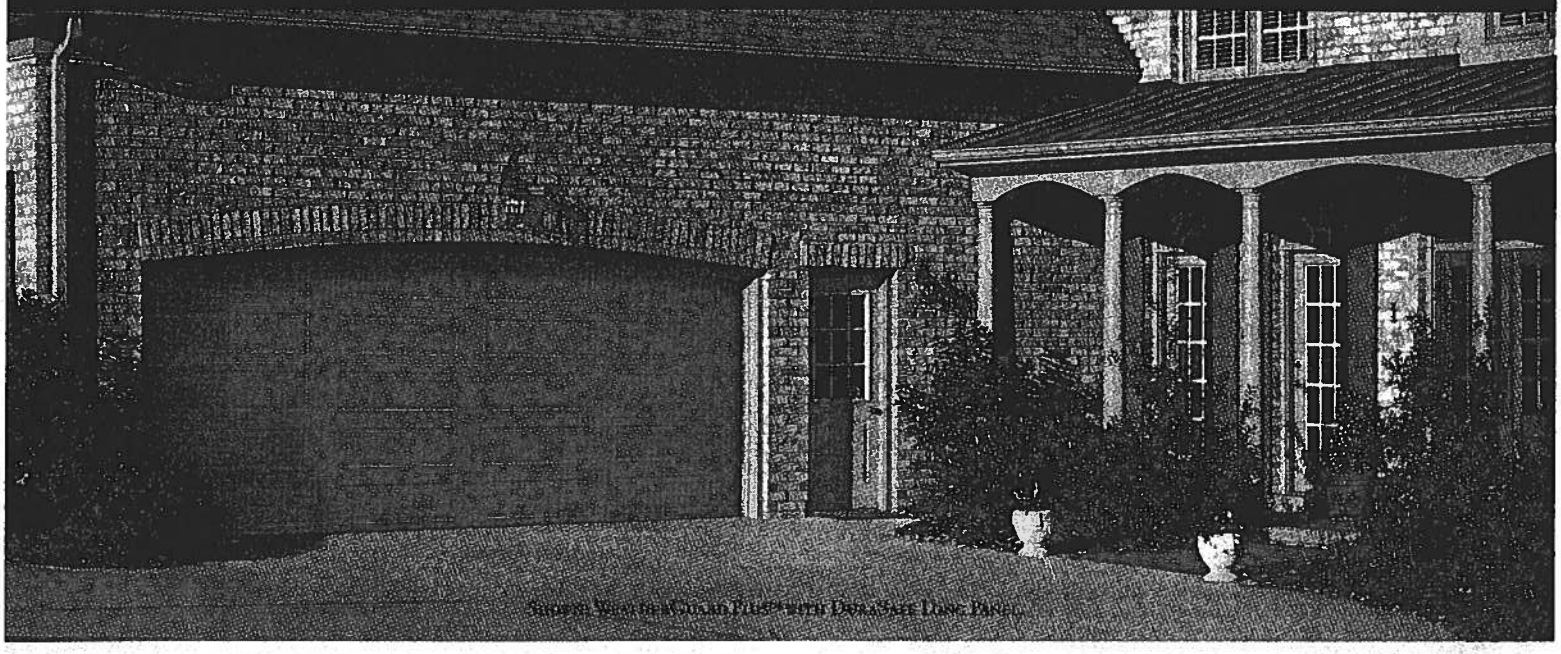
Manuel Perez

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

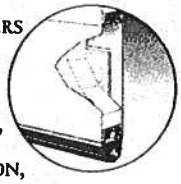
Amarr GARAGE DOORS

BEST

WeatherGuard™ Series
featuring our DuraSafe System



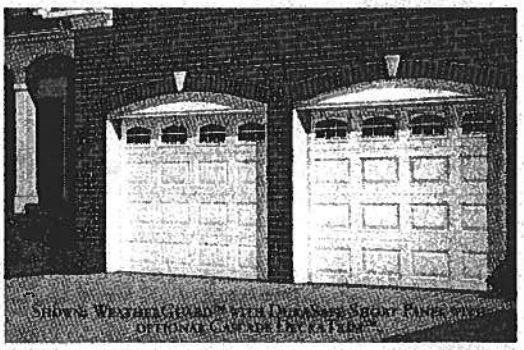
WeatherGuard Plus™ with DuraSafe



The WeatherGuard Plus offers discerning homeowners a masterful combination of premium features. Superior triple-layer construction, 2" (5.1 cm) polystyrene insulation, an R-value of 8.34, and unmatched beauty put the WeatherGuard Plus at the top of its class.

WeatherGuard™ with DuraSafe

Top-quality triple-layer construction and 1 3/8" (3.5 cm) polystyrene insulation make our WeatherGuard steel door strong, quiet, and energy efficient. Featuring an R-value of 5.73, the WeatherGuard is the perfect addition to your home for years of trouble free service and great looks.



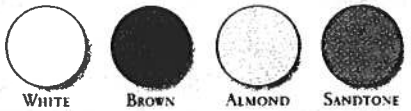
Design Elements

The WeatherGuard Series doors are available with a raised short, raised long, or flush panel design in your choice of four colors.*

Raised Short Panel

Raised Long Panel

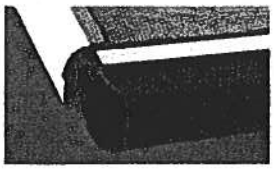
Flush Panel



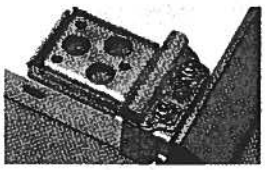
White Brown Almond Sandtone

* Actual paint colors may vary from samples shown.

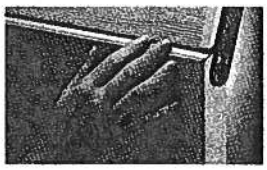
Bottom Seal
New aluminum bottom seal means easy and fast installation and maintenance... as well as a better seal against the elements.



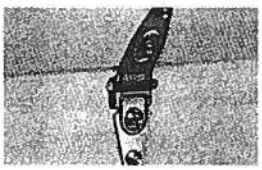
Bottom Bracket
New tamper resistant bottom bracket helps prevent accidents, yet allows for roller maintenance/change without disassembly. Full length roller tube prevents slip-outs.



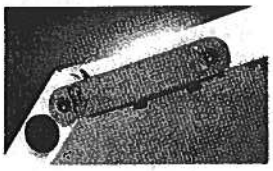
Door Sections
The section joint of the future: today. New section profile assures pinch resistance both inside and out, exceeding industry standards - neither fingers nor weather gets in.



Center Hinge
Flush mount inboard design center hinges provide pinch resistant protection and a low profile clean look on the inside of the door.



End Hinge
With most of its action hidden inside the door, our re-engineered end hinges leave no room for even the smallest fingers.



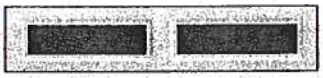
Amarr DuraSafe doors under 8'9" will be supplied with DuraSafe hardware. DASMA standards for pinch-resistance do not apply to doors over 8' high since the potential pinch points are above typical grasping heights; Amarr doors over 8'9" are supplied with conventional hardware. The Bottom Bracket, Door Sections, Center Hinge and End Hinge shown above are patented. Doors shown are electrically operated. Non-electrically operated doors should have exterior and interior lift handles attached to the door.

DecraTrim Window Accents

Add visual interest to your windows with a variety of color-matched, easy-to-snap-in DecraTrim inserts available in either short or long panel designs.

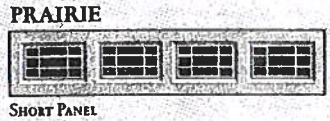
GLAZED WINDOW

Short Panel No Inserts (Not available on 15'6" (472.55 cm) 15'8" (477.52 cm))

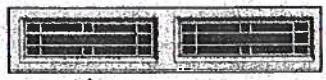


Long Panel No Inserts*

PRAIRIE



Short Panel



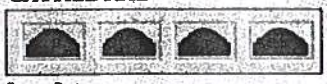
Long Panel*

CASCADE

Short Panel

Long Panel*

CATHEDRAL

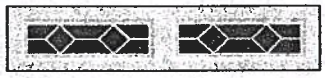


Short Panel

Long Panel*

WATERFORD

Short Panel



Long Panel*

WAGON WHEEL

Short Panel

Long Panel*

SUNRAY

Short Panel

Long Panel*

FULL SUNRAY

Short Panel — only available on 16' (487.68 cm) 17' (518.16 cm) 18' (548.64 cm)

Long Panel* — only available on 15' (457.20 cm), 15'6" (472.44 cm), 15'8" (477.52 cm), 16' (487.68 cm), 17' (518.16 cm), 18' (548.64 cm)

DecraGlass™ Windows

Add a touch of elegance with translucent, tempered DecraGlass, featuring V-groove etching. (Available in short or long panel.)

CHALET

Brass Came & Etched Design

RIVIERA

V-Groove Etched Design

VICTORIAN

V-Groove Etched Design

DecraTrim and DecraGlass Windows not available for 15'6" and 15'8" short panel doors.

The Amarr Philosophy

Since 1951, we have successfully raised the standards of quality, value, and dependability in our industry. Today, with the same promise of individual attention and great value for all our customers, we remain committed to offering products and services that raise those standards even higher.

Richard A. Brenner, President

To Continue its Program of Quality and Design Improvements, Amarr Reserves the Right to Change Specifications and Designs Without Notice and Without Incurring Obligations.

BEST

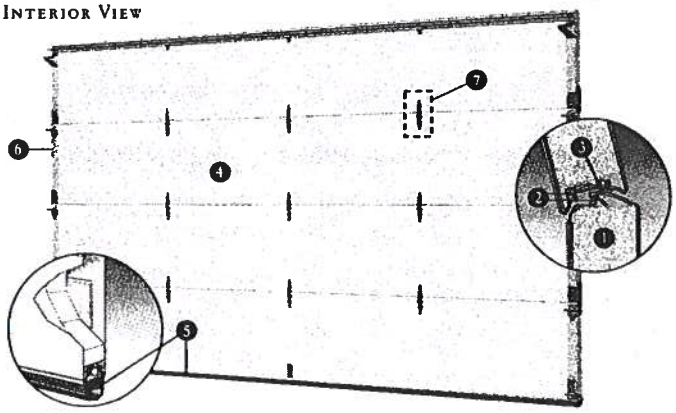
WeatherGuard™ Series

featuring our DuraSafe System

Product Classification	BEST WeatherGuard	BETTER Heritage	BASIC Stratford

DuraSafe System features include inboard design center hinges and end hinges, new pinch resistant sections, and tamper proof bottom bracket. These features result in a new state of the art design for overall homeowner safety, as well as a more finished interior appearance.

Interior View



1 CFC-free and environmentally safe polystyrene insulation provides an energy-saving barrier against extreme temperatures.
2 WeatherGuard PRO-Bond unites exterior and interior steel surfaces to create a thermal barrier against heat and cold.
3 Exclusive Amarr Wear-Seal features an air-tight thermal seal between individual door sections, eliminating drafts and extending the life of your door.
4 A finished interior of painted steel and flush hinge design makes your door look great both inside and out.
5 The Weather Seal, held in place with an aluminum retainer, provides a flexible, contoured vinyl seal between the door and floor to help prevent outside air, dirt, dust, and moisture from seeping in.
6 Painted end stiles add a finished touch to your garage.
7 Steel support plates are located under each hinge location and are pre-punched for hinge attachment.

Every Amarr Door Is Built For Good

1 Every Amarr garage door is constructed of rugged, real gauge steel. Beware of nominal gauge steel numbers.
2 We help prevent rusting with the best process available: hot-dip galvanizing.
3-4 Amarr doors feature a two-step paint system that includes (3) a primer coat and (4) a tough polyester top-coat that requires no painting.
Warranted To Last: Amarr's powerful warranties cover paint, finish, adhesive, and hardware.

Lifetime Limited Warranty

The WeatherGuard Plus comes with a limited lifetime warranty on paint, finish, and hardware.
The WeatherGuard features a limited lifetime warranty on paint and finish, and a 3-year hardware warranty.

Amarr
Built For Good.™

5931 Grassy Creek Blvd.
Winston-Salem, NC 27105
336.744.5100 • 800.503.DOOR
Fax 336.744.0895 • www.amarr.com

Your Local Amarr Dealer:

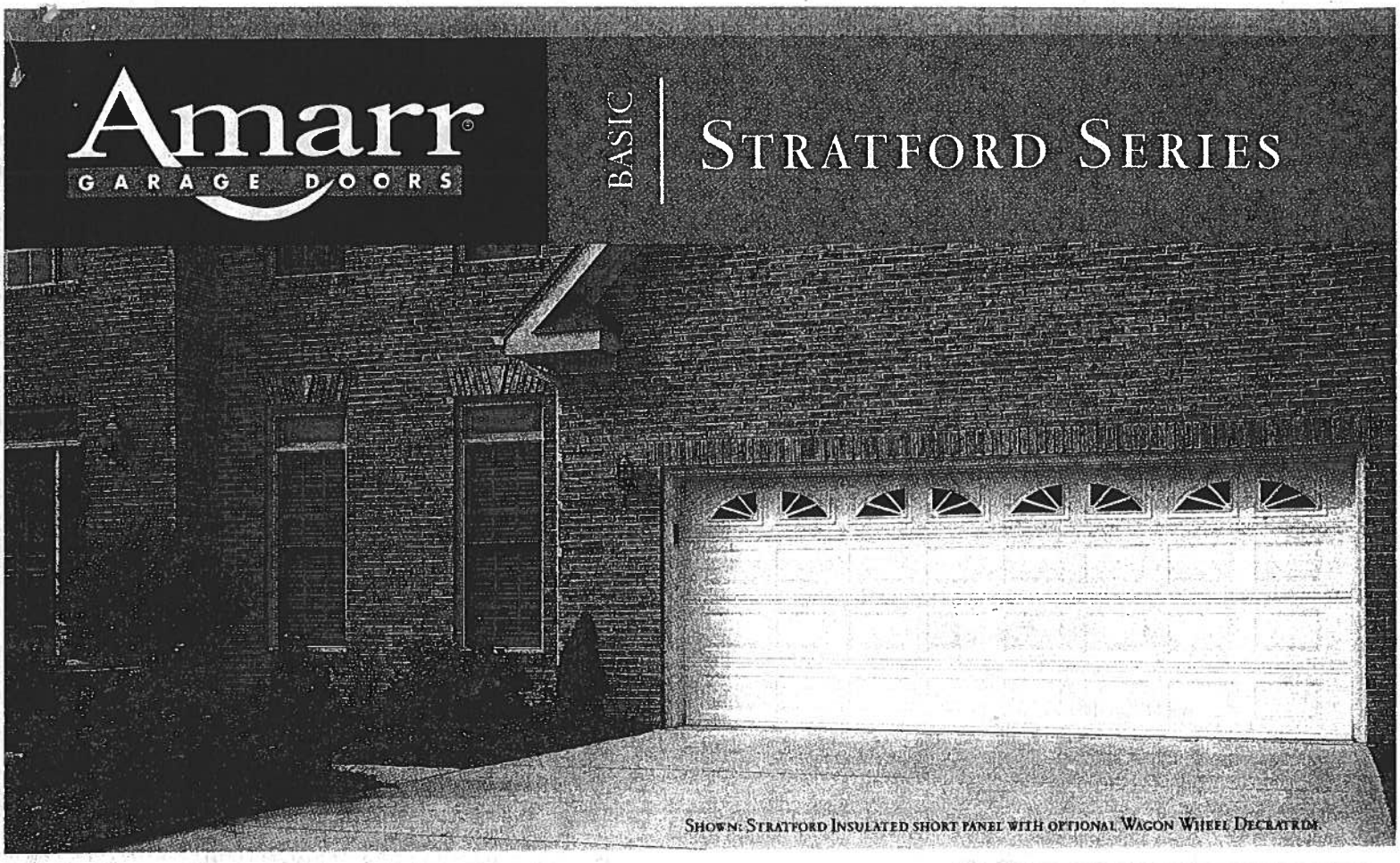
LAKE CITY GLASS
P. O. BOX 114
LAKE CITY, FL 32056-0114

Printed in USA Form #5050101/75M/HA

Amarr
GARAGE DOORS

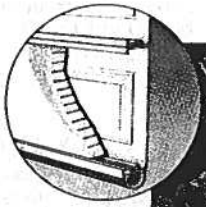
BASIC

STRATFORD SERIES



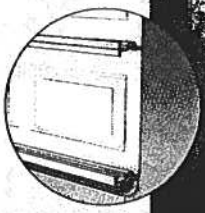
SHOWN: STRATFORD INSULATED SHORT PANEL WITH OPTIONAL WAGON WHEEL DECRATRIM.

STRATFORD INSULATED

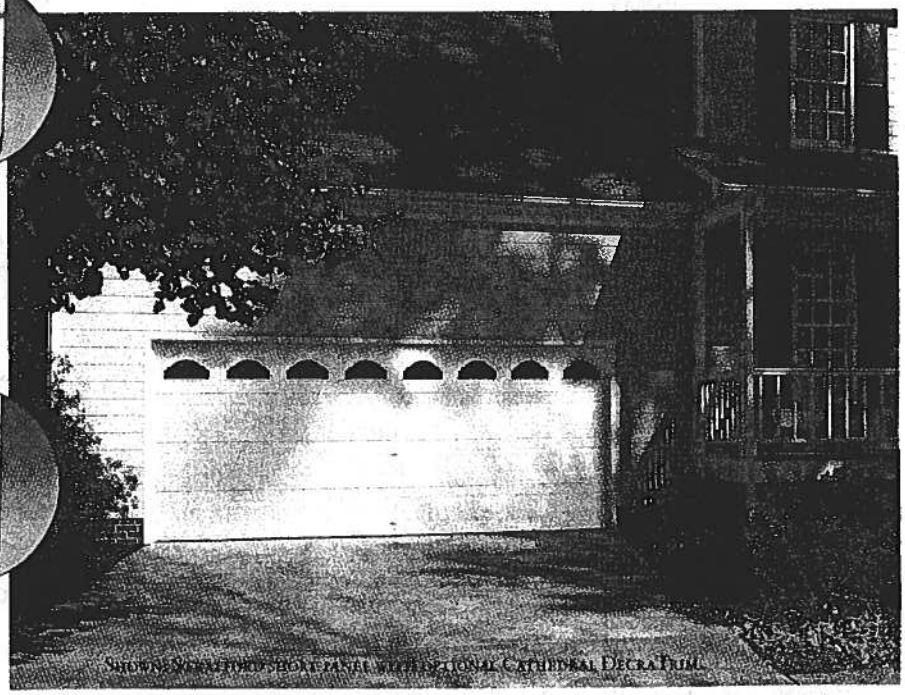


THE 2" (5.1 CM) THICK STRATFORD INSULATED PROVIDES HOMEOWNERS EXCELLENT THERMAL PROTECTION AND HANDSOME GOOD LOOKS. FEATURES INCLUDE DOUBLE-LAYER CONSTRUCTION OF STURDY 25-GAUGE STEEL, AND 1 7/16" (3.7 CM) POLYSTYRENE INSULATION WITH LAMINATED BACKING AND AN R-VALUE OF 5.65.

STRATFORD



A SUPERLATIVE ADDITION TO ANY HOME, THE STRATFORD'S DURABLE SINGLE-LAYER CONSTRUCTION, 25-GAUGE STEEL, AND ATTRACTIVE DESIGN PROVIDE HOMEOWNERS WITH EXCEPTIONAL VALUE.



SHOWN: STRATFORD SHORT PANEL WITH OPTIONAL CATHEDRAL DECRATRIM.

DESIGN ELEMENTS

THE STRATFORD SERIES DOORS ARE AVAILABLE WITH A RAISED SHORT PANEL DESIGN IN YOUR CHOICE OF THREE COLORS.*

RAISED SHORT PANEL

WHITE ALMOND SANDTONE

* ACTUAL PAINT COLORS MAY VARY FROM SAMPLES SHOWN.

DecraTrim Window Accents

Add visual interest to your windows with a variety of color-matched, easy-to-snap-in DecraTrim inserts.

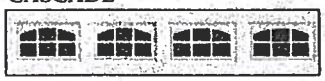
GLAZED WINDOW

Short Panel No Inserts not available on 15'6" (472.55 cm) 15'8" (477.52 cm)

PRAIRIE

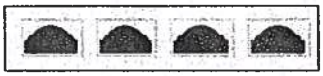
Short Panel

CASCADE



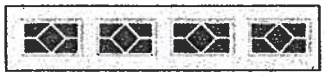
Short Panel

CATHEDRAL



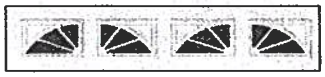
Short Panel

WATERFORD



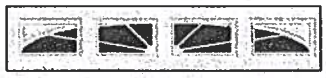
Short Panel

WAGON WHEEL



Short Panel

SUNRAY



Short Panel

FULL SUNRAY

Short Panel — only available on 16' (487.68 cm) 17' (518.16 cm) 18' (548.64 cm)

DecraGlass™ Windows

Add a touch of elegance with translucent, tempered DecraGlass, featuring V-groove etching.

CHALET

Brass Came & Etched Design

RIVIERA

V-Groove Etched Design

VICTORIAN

V-Groove Etched Design

DecraTrim and DecraGlass Windows not available for 15'6" and 15'8" short panel doors.

The Amarr Philosophy

Since 1951, we have successfully raised the standards of quality, value, and dependability in our industry. Today, with the same promise of individual attention and great value for all our customers, we remain committed to offering products and services that raise those standards even higher.

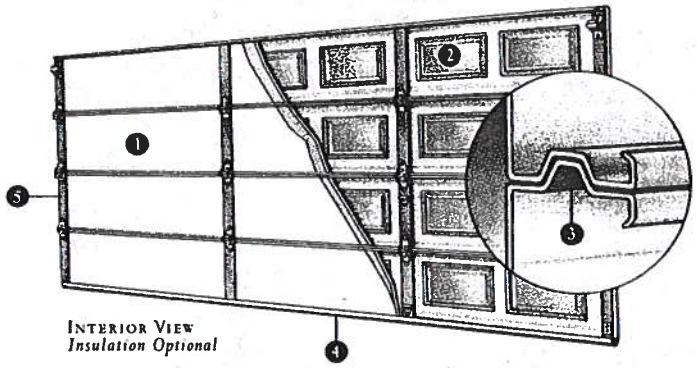
Richard A. Brenner, President

Photos and drawings shown meet future DASMA 116 requirements. Your door may be supplied with fewer lift handles. To continue its program of quality and design improvements, Amarr reserves the right to change specifications and designs without notice and without incurring obligations.

BASIC | # Stratford Series

Product Classification	BEST WeatherGuard	BETTER Heritage	BASIC Stratford

Even our most basic door offers you durable, heavy-gauge steel construction. Available with or without insulation, the Stratford Series also allows you to customize with our broad selection of window and trim options.



Interior View
Insulation Optional

1 Stratford Insulated doors feature an exterior layer of heavy-gauge steel and an interior layer of insulation.

2 Stratford non-insulated doors consist of a single-layer of heavy-gauge steel.

3 Tongue-and-groove joints seal the gap between sections more tightly than ship-lap joints. They eliminate drafts and offer stability and superior protection against the elements.

4 The weather seal, held in place with an aluminum retainer, provides a flexible, contoured vinyl seal between the door and floor to help prevent outside air, dirt, dust, and moisture from seeping in.

5 Galvanized end and center stiles are both durable and functional.

Every Amarr Door Is Built For Good

1 Every Amarr garage door is constructed of rugged, real gauge steel. Beware of nominal gauge steel numbers.
2 We help prevent rusting with the best process available: hot-dip galvanizing.
3-4 Amarr doors feature a two-step paint system that includes (3) a primer coat and (4) a tough polyester top-coat that requires no painting.
Warranted To Last: Amarr's powerful warranties cover paint, finish, adhesive, and hardware.

15-Year Limited Warranty

The Stratford Series features a limited 15 year warranty on paint and finish, and 1-year on hardware.

Amarr
Built For Good.™

5931 Grassy Creek Blvd.
Winston-Salem, NC 27105

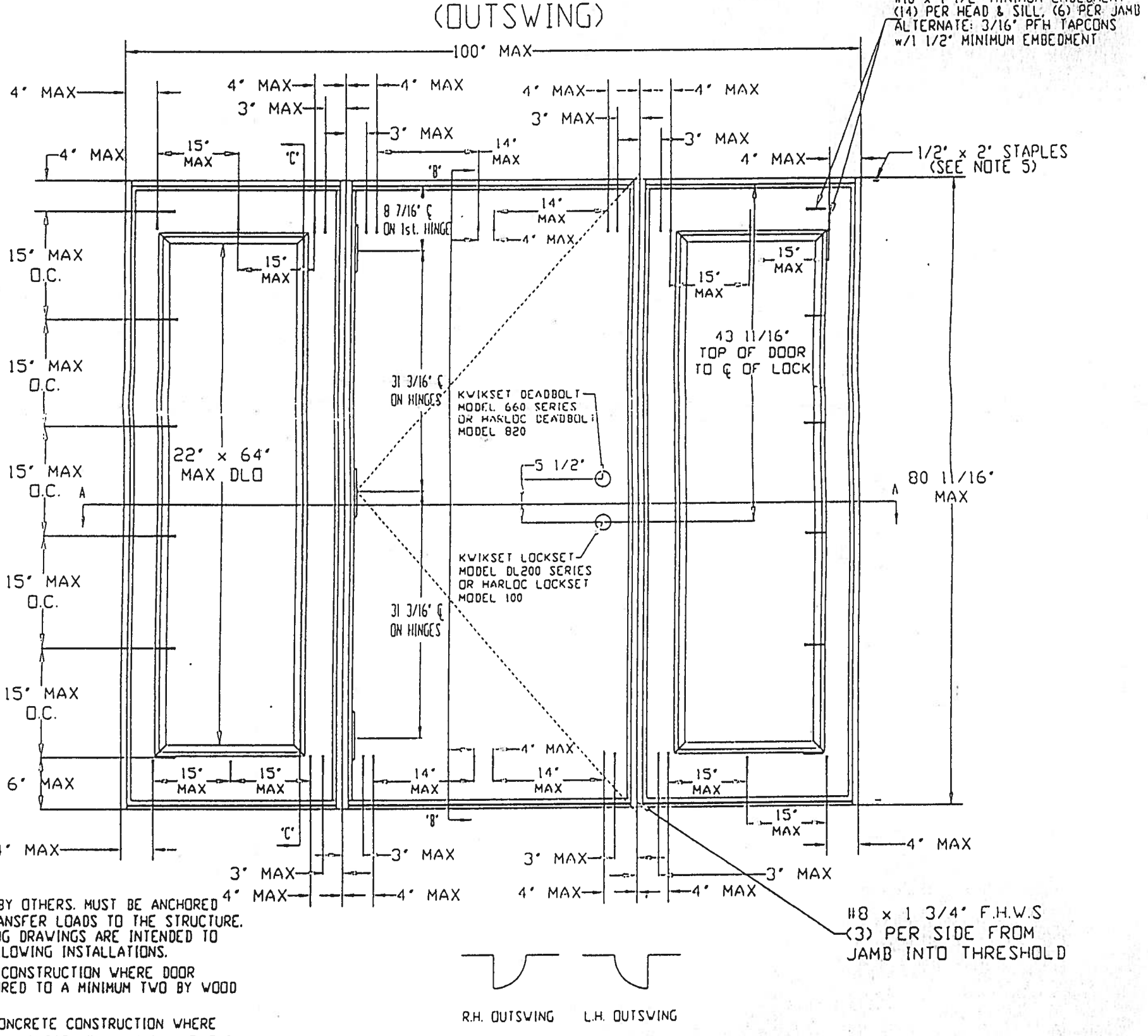
336.744.5100 • 800.503.DOOR
Fax 336.744.0895 • www.amarr.com

Your Local Amarr Dealer:

P. O. BOX 114
LAKE CITY, FL 32056-0114

Printed in USA Form #5040101/75M/HA

PREMDOR (ENTERGY BRAND) WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (OUTSWING)



R.H. OUTSWING L.H. OUTSWING

NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO BASE ON SIDELITES.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+55.0 psf	+55.0 psf
Negative	NOT APPROVED *	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/25/01	JJ
B	ADD RATINGS & REDRAWN	8-25-98	RS
A	ADD SCREWS FROM JAMB TO THRESHOLD	11-11-97	RS
A	ADD NOTE 4 FOR STAPLES	11-11-97	RS

UNITS UNLESS NOTED, FRAC ± DEC ± ANG ±
EXTENSIONS UNLESS NOTED, STD COMP. TOLS

ENGINEER:

DR BY R.S. DATE 4-9-97

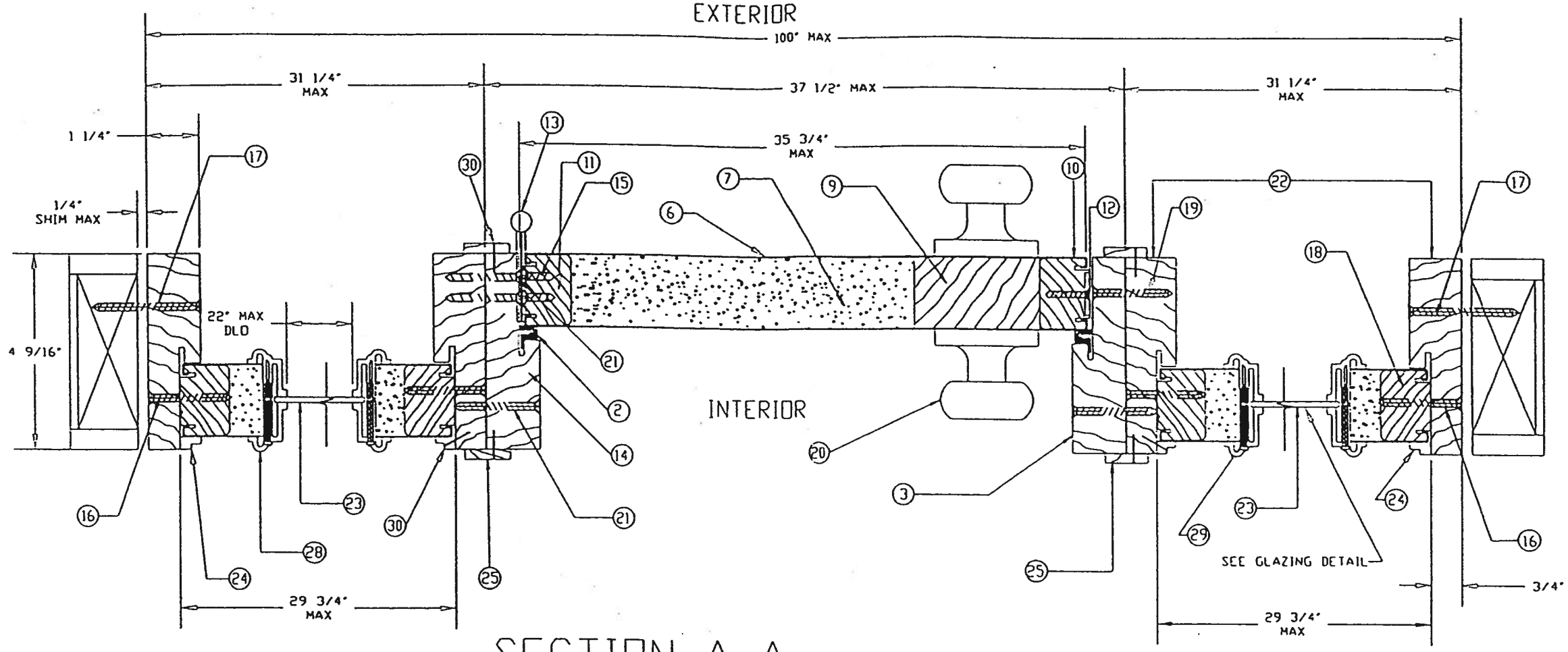
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE

MATL: SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, TX 75762

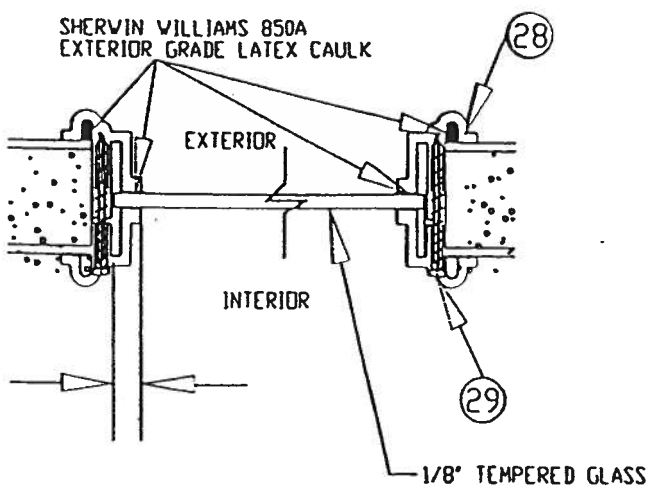
31-1020-EW-D
SHEET 1 OF 6

REVISION LETTER C

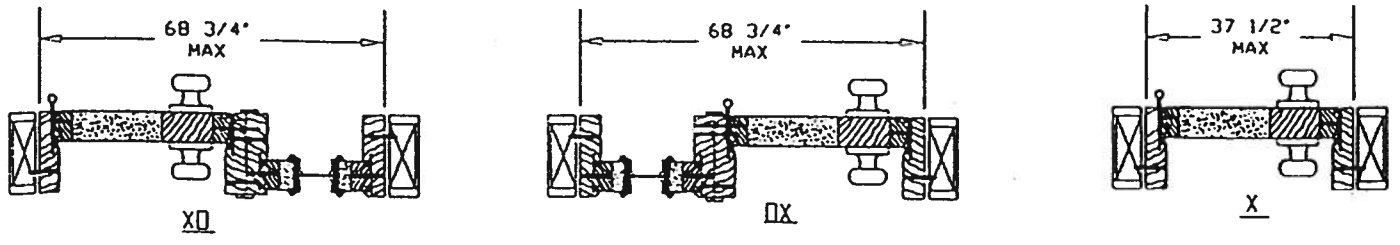


SECTION A-A
OUTSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

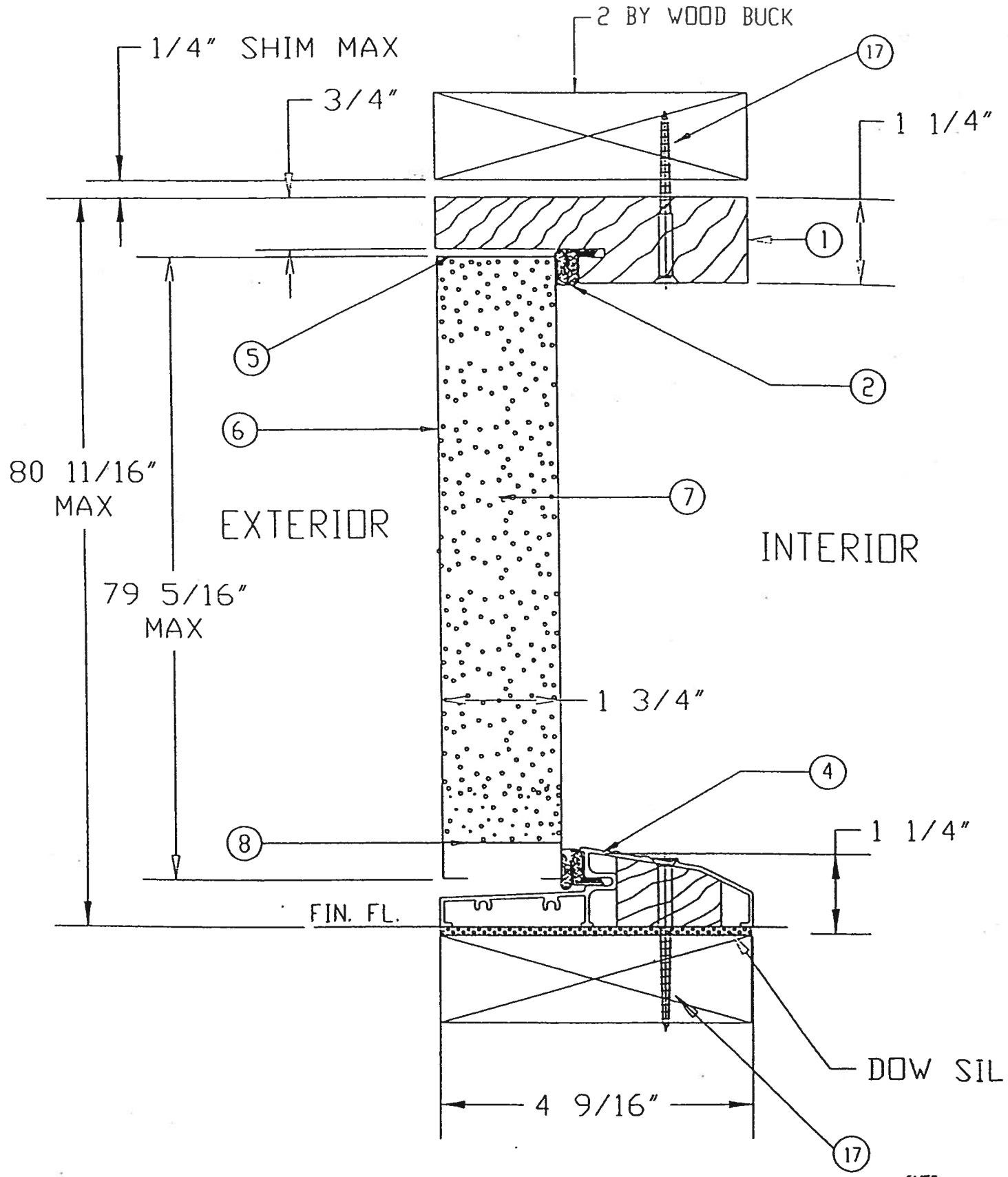
LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	5/11/01	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-10-97	RS

UNITS UNLESS NOTED, FRAC : DEC : ANG :
EXTRUSIONS UNLESS NOTED, STD COML TOLS
ENGINEER:
DR BY R.S. DATE 7-29-97
PART NAME: ENTERGY DOOR W/SIDELITES (A-A)
MAT'L: SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-0
SHEET 2 OF 6

REVISION LETTER C



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN YIELD STRENGTH 37,000 PSI MIN THICKNESS PER TENSILE TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft.³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL)
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 x 1 3/4" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TOP MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TOP MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL-2 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND NO TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THEREAFTER, USED ON MULLIONS AND TRI

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

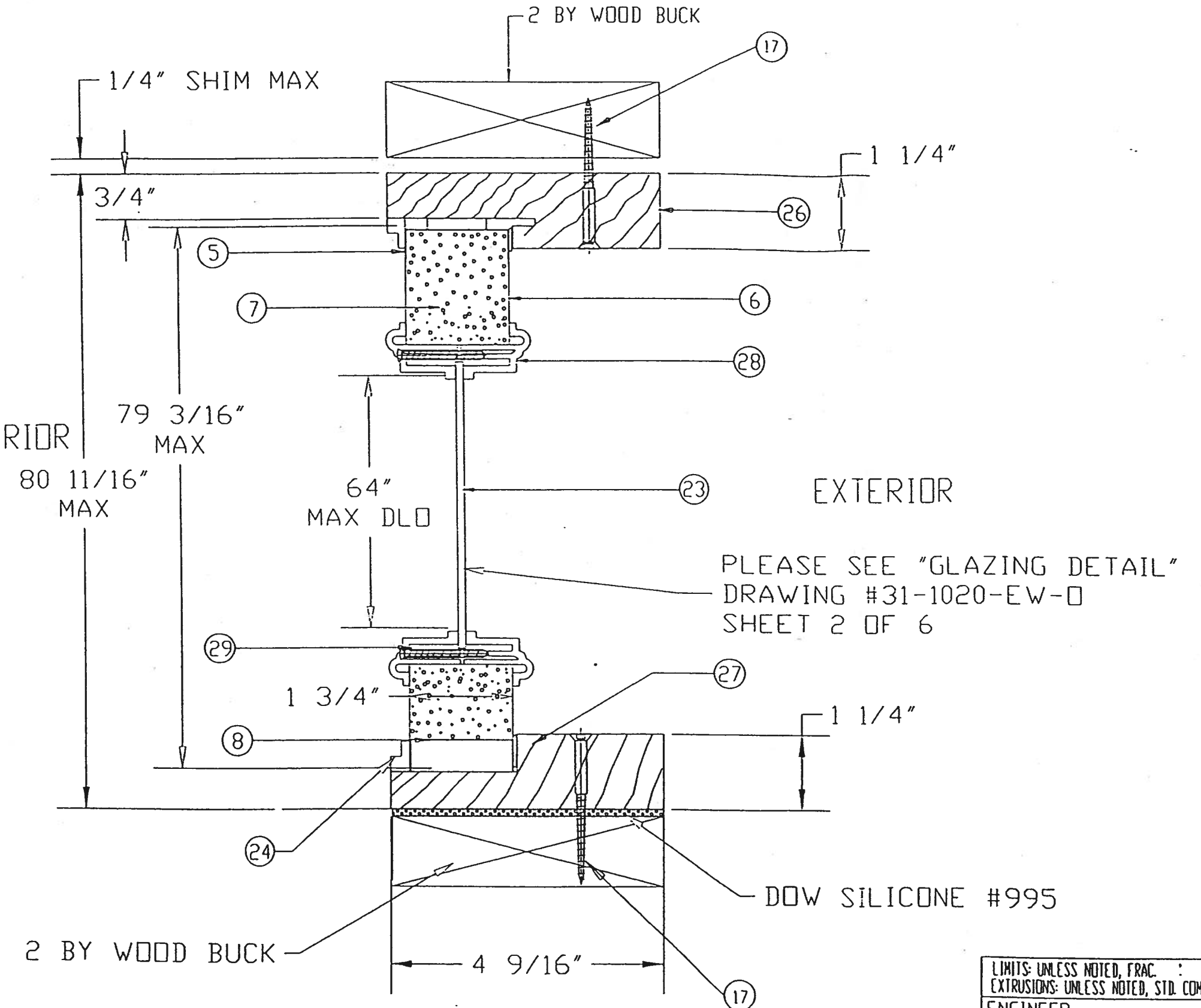
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	B	DADE COUNTY MODIFICATIONS	1/11/01	JD
	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
ENGINEER:	LTR.	REVISIONS	DATE	BY
	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)			
DR. BY R.S. DATE 7-29-97	MAT'L:		SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-0
SHEET 3 OF 6

REVISION LETTER B



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Maxwell Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LTR.	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. CON'L. TOL'S.

ENGINEER:

DR. BY R.S. | DATE 7-29-97

PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)

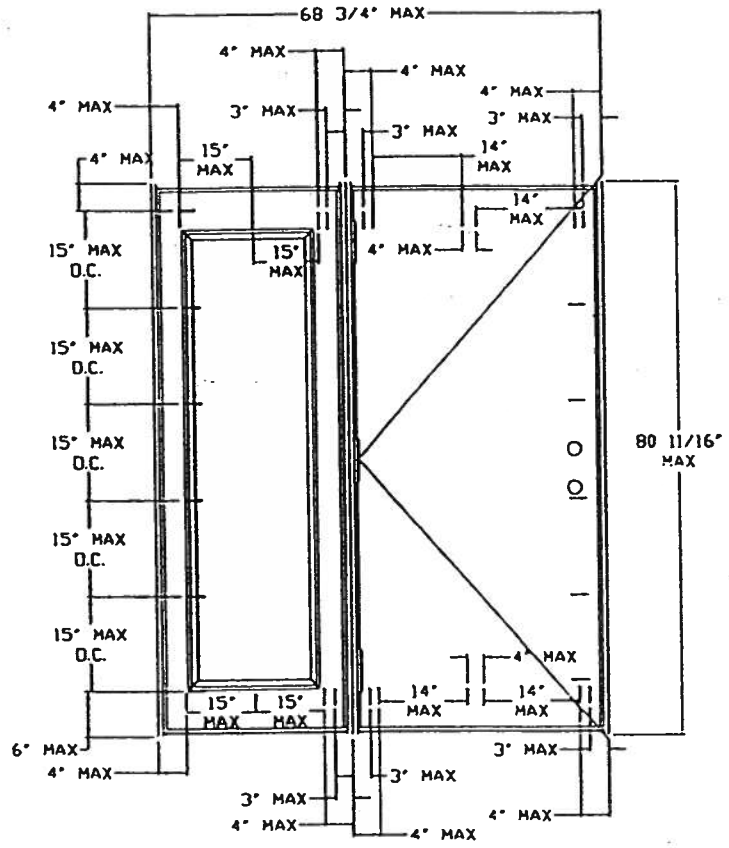
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-0
SHEET 4 OF 6

REVISION LETTER D

OTHER DOOR CONFIGURATIONS



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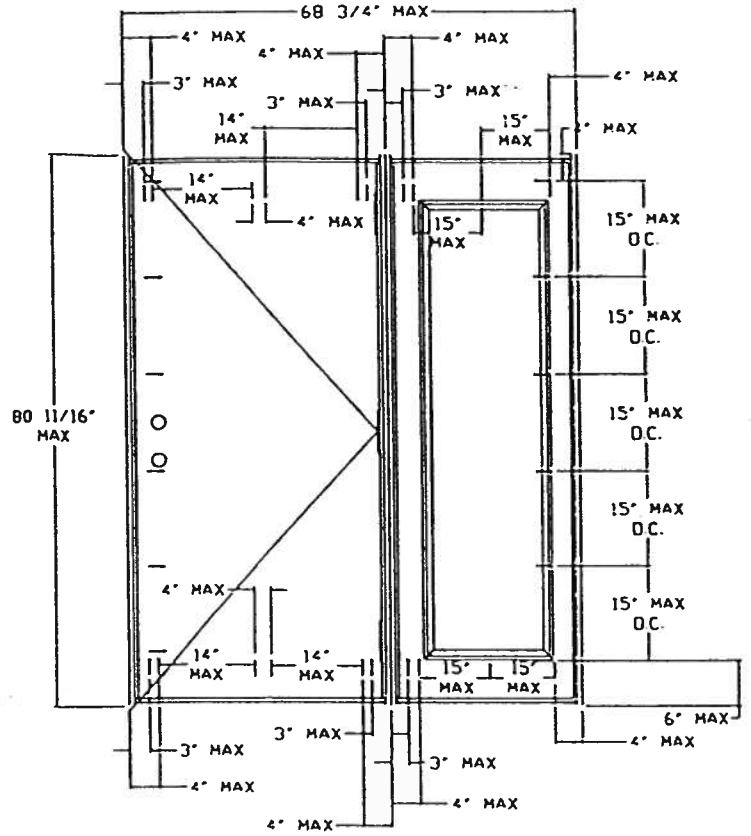

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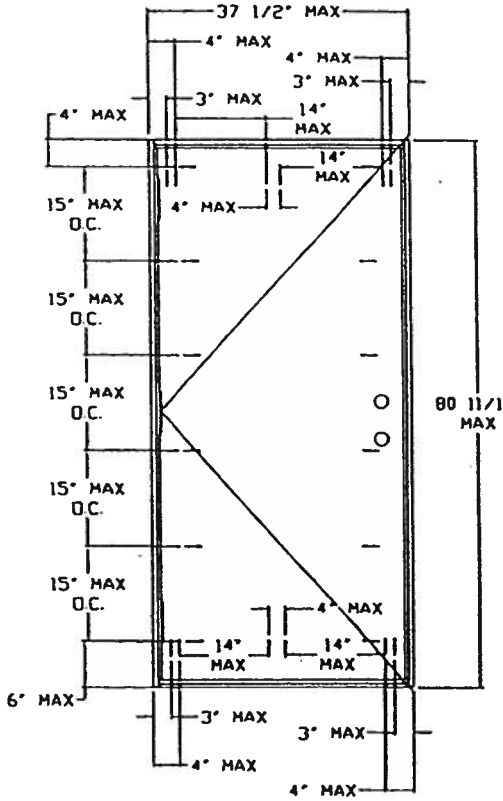

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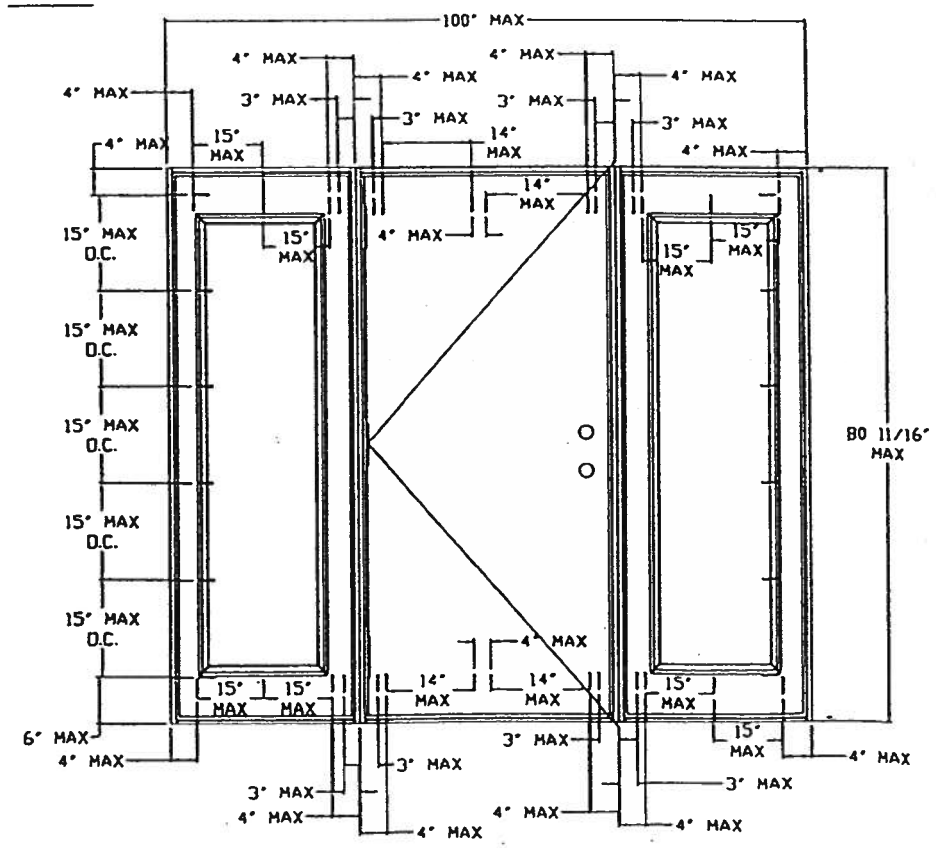

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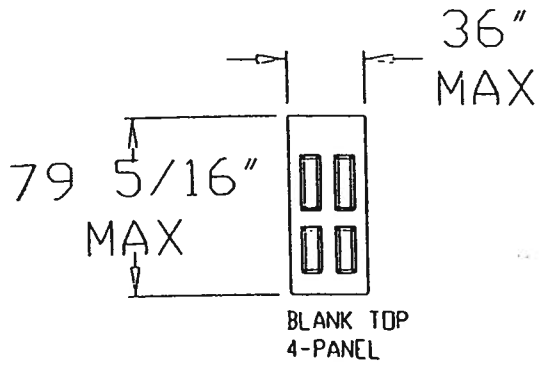
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.21

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S.				
ENGINEER:	LTR	REVISIONS	DATE	BY
	PART NAME:			
DR. BY J.D. DATE 1-11-01	MAT'L:	SCALE:		
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1020-EW-D SHEET 5 OF 6			
	REVISION LETTER			

OTHER DOOR PANEL STYLES



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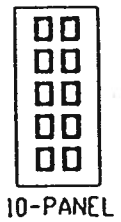
6-PANEL

4-PANEL

9-PANEL



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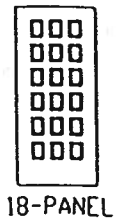
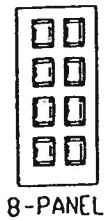
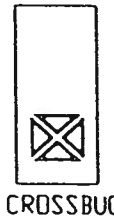


18-PANEL

FLUSH

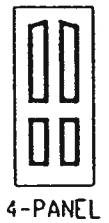


8-PANEL



CROSSBUCK

12-PANEL



4-PANEL EYEBROW

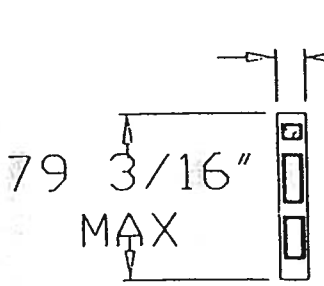
5-PANEL W/SCROLL

5-PANEL EYEBROW W/SCROLL

5-PANEL

5-PANEL EYEBROW

OTHER SIDELITE STYLES



SL-10

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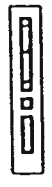
SL-30

SL-60

SL-50

SL-50B



SL-69A

SL-69B

SL-69C

SL-25

SL-55

SL-30D

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SL-90A

SL-90B

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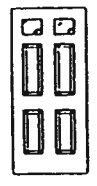
SL-30B

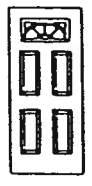
SL-30C

SL-70

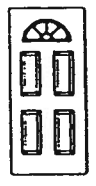
SL-80



PD-1

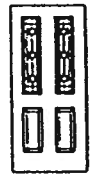


PD-2



PD-3

PD-4



PD-5

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PD-41

PD-42

PD-43

PD-43A

PD-43B

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO: 01-0314.21

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S.

ENGINEER:

LTR	REVISIONS	DATE	BY

PART NAME: PREMDOR DOOR OPTIONS

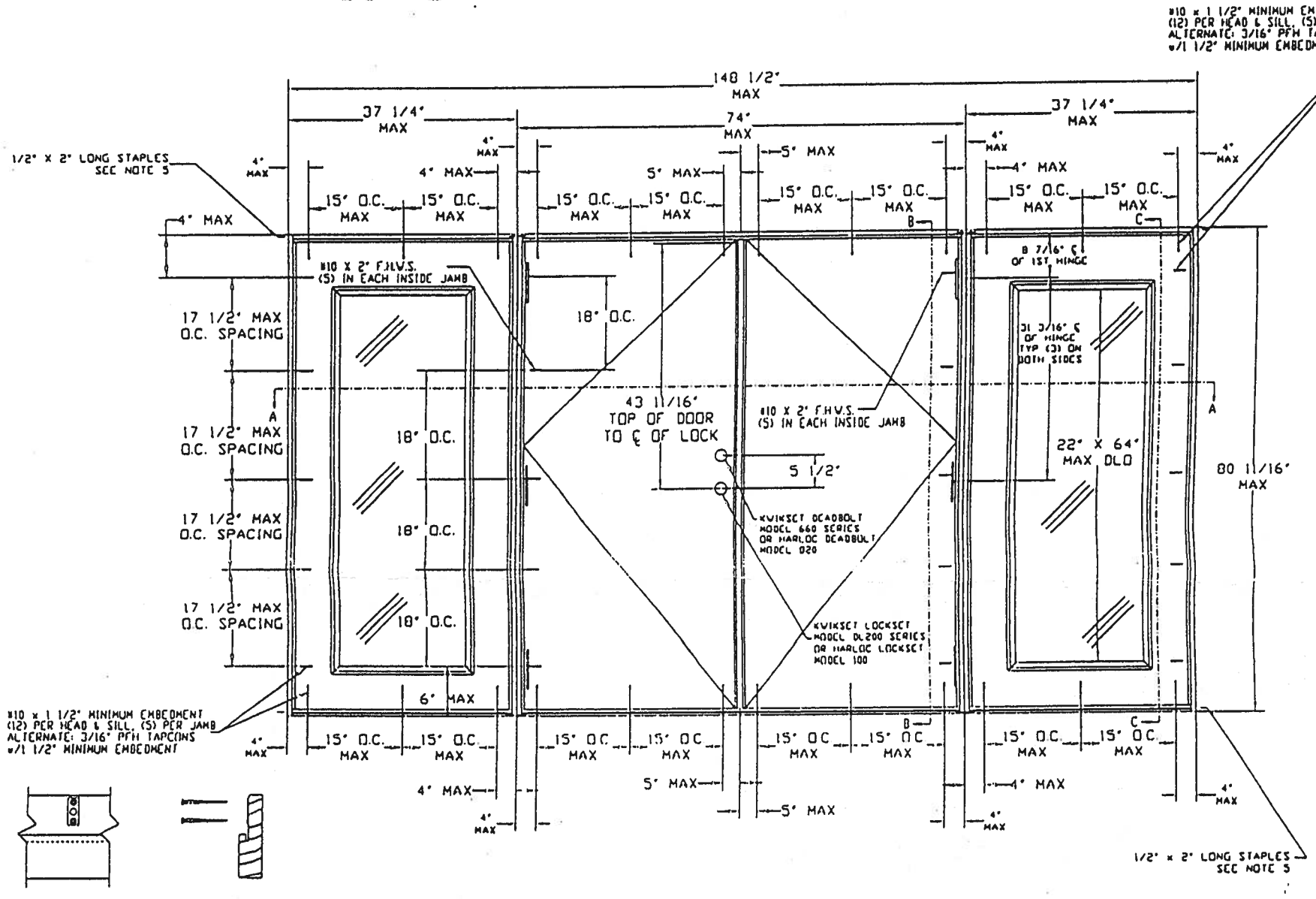
DR. BY J.D. | DATE 1/15/01 | MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-0
SHEET 6 OF 6

REVISION LETTER

PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH A BUMPER THRESHOLD (INSWING)



ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS

NOTES:

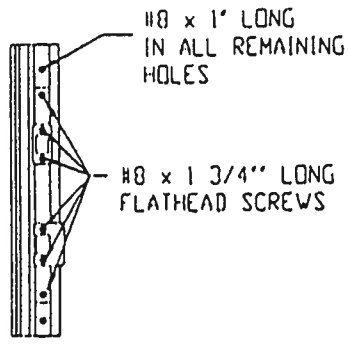
1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.



ASTRAGAL

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED*	+55.0 psf
Negative	NOT APPROVED*	-55.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0314.24

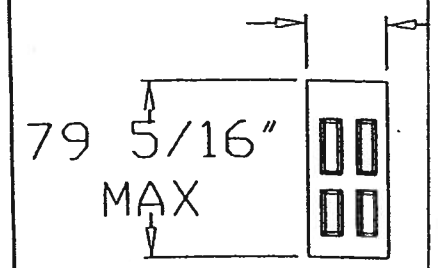
LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS

LIMITS: UNLESS NOTED, FRAC : DEC : ANG :
EXTRUSIONS: UNLESS NOTED, STD. COML. TOL'S.
ENGINEER:
DR. BY R.S. | DATE 7-29-97
PART NAME: ENTERGY WOOD (DEC) DOUBLE DOOR W/SIDELITES
MAT'L: | SCALE: N.T.S.

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1029-EW-I
SHEET 1 OF 6
REVISION LETTER C

OTHER



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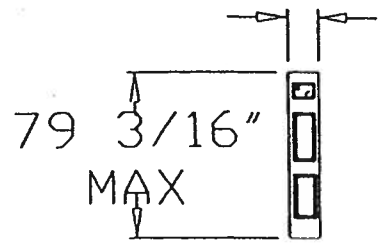
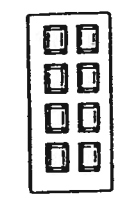
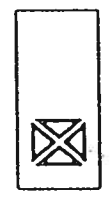
OTHER



SL-10

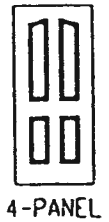


8-PANEL



CROSSBUCK

12-PANEL



4-PANEL EYEBROW

5-PANEL W/SCROLL

5-PANEL EYEBROW W/SCROLL

5-PANEL

5-PANEL EYEBROW

SL-25

SL-55

SL-30D

SL-40

SL-90A

SL-90B

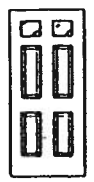
SL-90C

SL-30B

SL-30C

SL-70

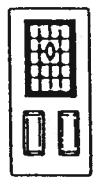
SL-80



PD-1

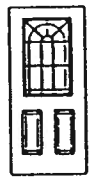
PD-2

PD-10



PD-11

PD-12



PD-13

PD-14

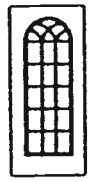
PD-15

PD-16

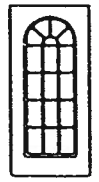
PD-17

PD-18

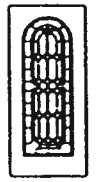
PD-19



PD-27

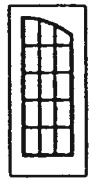


PD-28



PD-29

PD-30



PD-31

PD-32

PD-33

PD-34

PD-35

PD-36

PD-43A

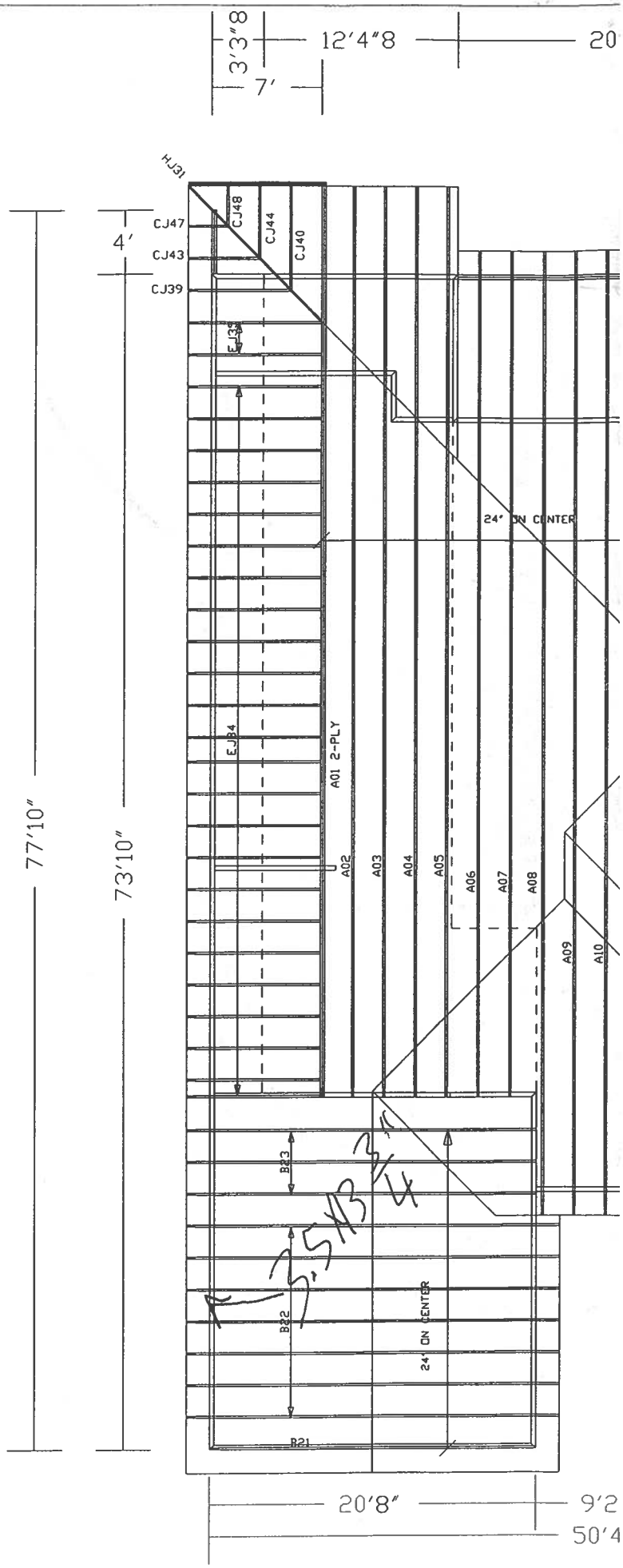
PD-43B

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.24

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S			
ENGINEER:	LTR.	REVISIONS	DATE / BY
	PART NAME: PREMDOR DOOR OPTIONS		
DR. BY J.D. / DATE 1/15/01	MAT'L:	SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1029-EW-1
SHEET 6 OF 6

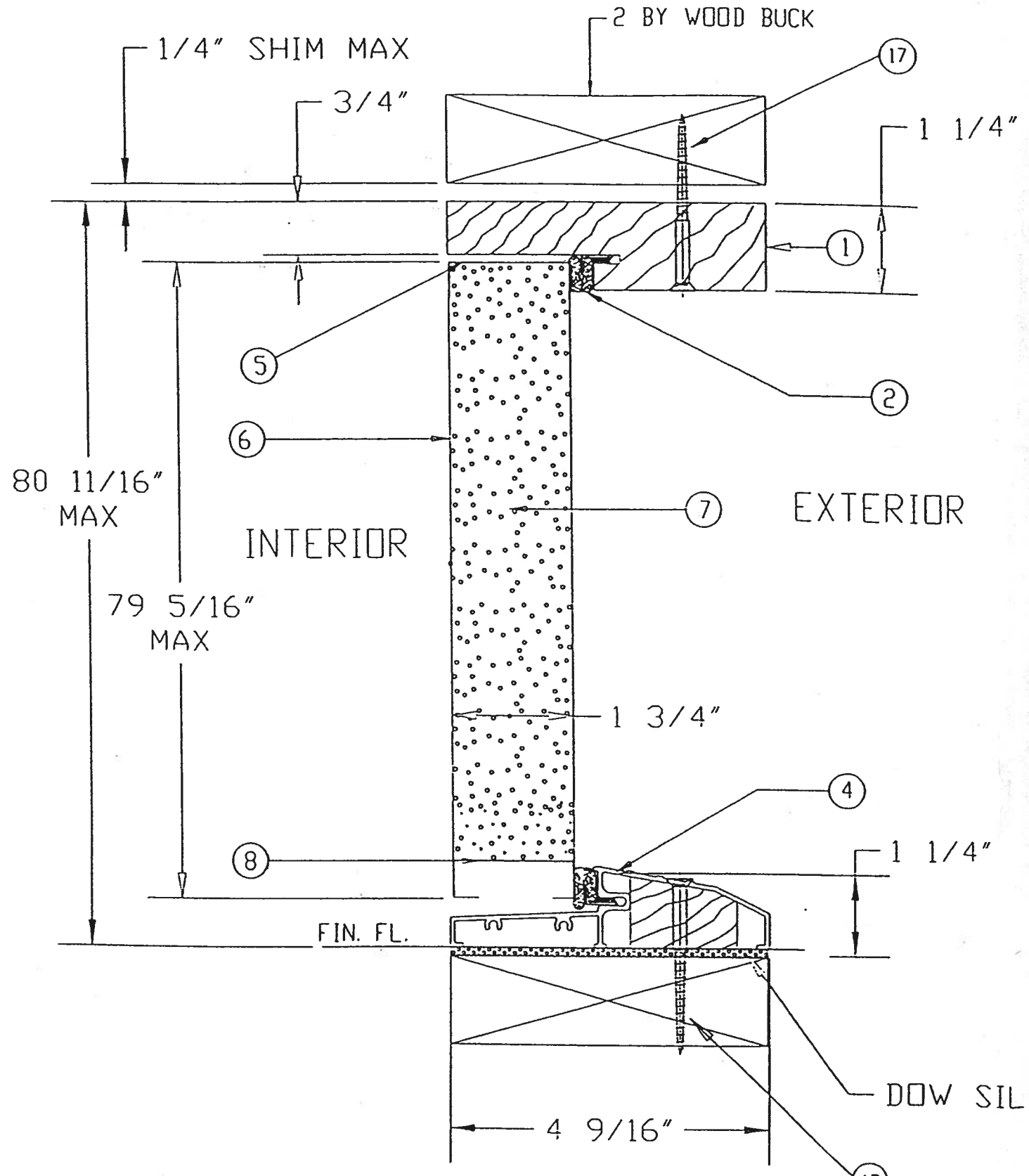


IMITED, #TELEFONO- 1-800-749-1445
ANTES DE PROCEDER CON CUALQUIER MODIFICACION.

ALTERACION O CUALQUER CAMBIO A LAS 'TROSAS'.
LUMBER UNLIMITED NO ES RESPONSABLE POR CUALQUIER
CARGO A CAUSA DE UNA ALTERACION SIN LA DEBIDA
APROBACION DE UN REPREATENCIÓN
CONTRATISTAS, SUB-CONTRATISTAS, CARPINTEROS DE TECHO.
TERMINANTEMENTE PROHIBIDO CORTAR O ALTERAR
LAS 'TROSAS' DE TECHO DE NINGUNA MANERA.

CUALQUIER PREGUNTAS O PROBLEMAS CON LAS 'TROSAS'
DEBEN NOTIFICARLO INMEDIATAMENTE @
LUMBER UNLSENTANTE DE LUMBER UNLIMITED
ANTES DE QUE DICHO CAMBIO SEA EJECUTADO.

Max Peak = 22-00-05



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-12	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-14	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	WOOD STRIKE JAMB	EW-10	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
④	ALUMINUM-BUMPER THRESHOLD	EW-13	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-05	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN. YIELD STRENGTH 33,000 PSI MIN. THICKNESS PER ACCEPTABLE TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft³	
⑧	BOTTOM CHANNEL	EW-04	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-08	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-09	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-15	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
⑭	WOOD HINGE JAMB	EW-11	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TOP MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (4) SCREWS THROUGH EACH HINGE INTO DOOR JAMB (6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	SIDELITE WOOD STILE	EW-07	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	NOT USED ON THIS MODEL		
㉒	WOOD SIDELITE JAMB	EW-18	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-19	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL-2 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-20	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-21	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS USE FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-22	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND NO TO EXCEED 14" OC THERE AFTER.
㉚	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THERAFTER, USED ON MULLIONS AND TRI

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	B	DADE COUNTY MODIFICATIONS	1/11/01 JD
	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98 RS
ENGINEER:	LTR.	REVISIONS	DATE BY
DR. BY R.S. DATE 7-29-97	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)		
	MAT'L:	SCALE:	

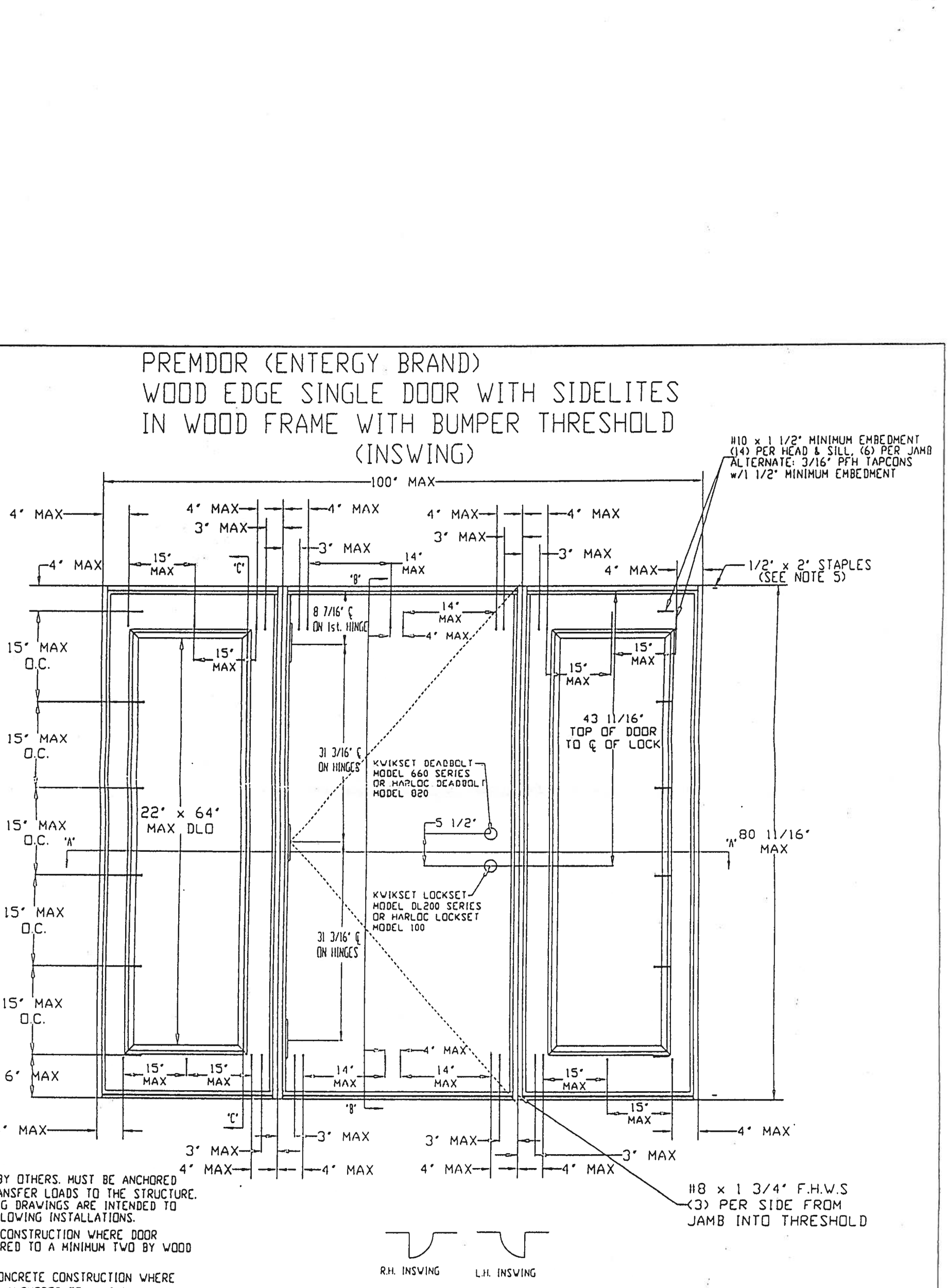
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1020-EW-I
SHEET 3 OF 6

REVISION LETTER B

PREMDOR (ENTERGY BRAND)
WOOD EDGE SINGLE DOOR WITH SIDELITES IN WOOD FRAME WITH BUMPER THRESHOLD (INSWING)



NOTES:

1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

3. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.
4. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.
5. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL LINE BY WOOD BUCK.
6. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
7. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
8. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO BASE ON SIDELITES.
9. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
10. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
11. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED *	+67.0 psf
Negative	NOT APPROVED *	-67.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

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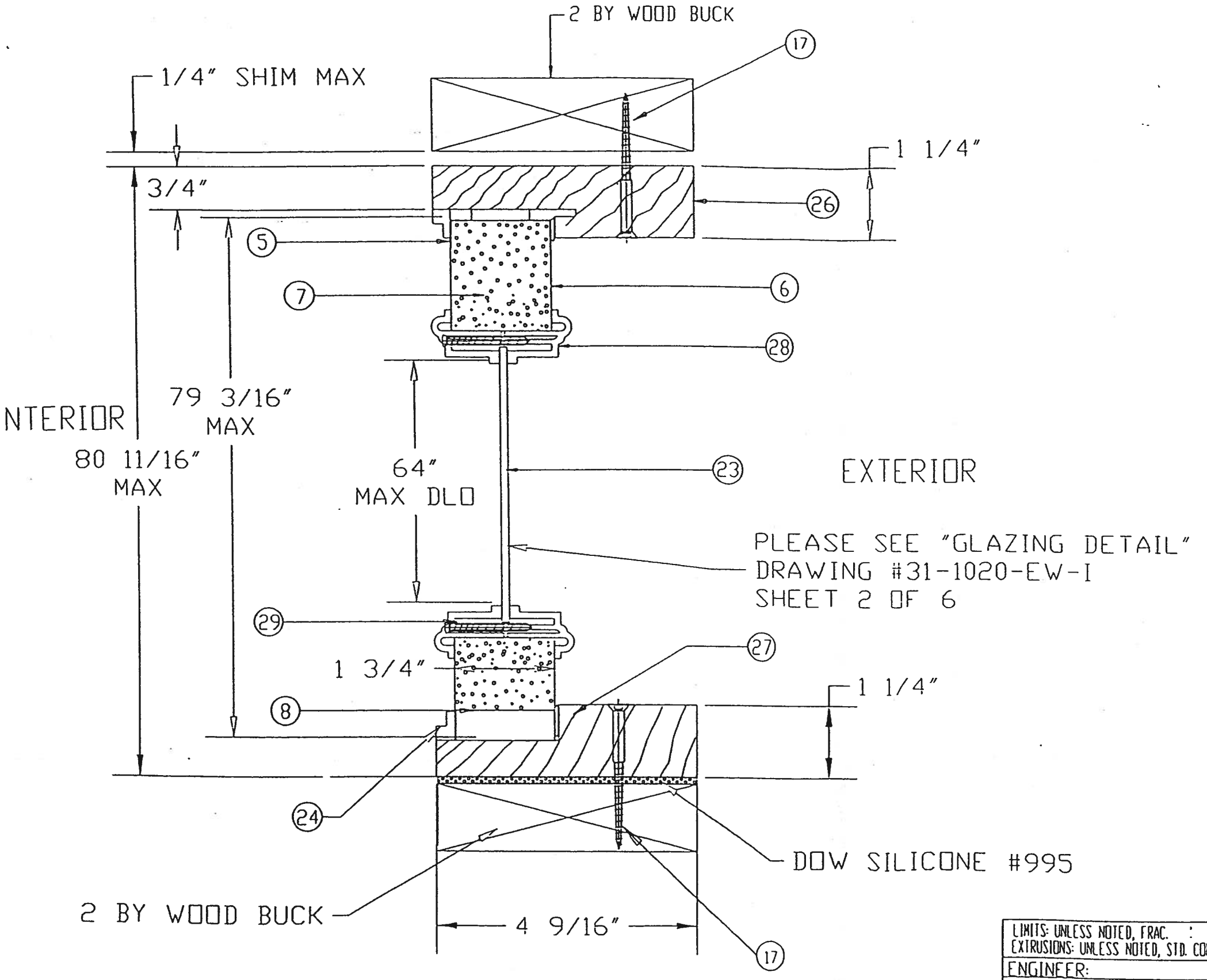
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/25/01	JD
B	ADD RATINGS & REDRAWN	8-24-98	RS
A	ADD SCREWS FROM JAMB TO THOLD	11-11-97	RS
A	ADD NOTE 4 FOR STAPLES	11-11-97	RS

LIMITS UNLESS NOTED, FRAC ± DEC ± ANG ±
EXTRUSIONS UNLESS NOTED, SEE CONT. TOLS
ENGINEER:
DR BY RS | DATE 4-9-97
PART NAME: ENTERGY WOOD EDGE DOOR W/SIDELITE
MATL: SCALE:
DREXWOOD ENTRY SYSTEMS



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.18

LTR.	REVISIONS	DATE	BY
D	DADE COUNTY MODIFICATIONS	1/11/01	JD
C	MATERIAL WAS POLYSTYRENE	6-2-99	RS
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-97	R.S.

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

DR. BY R.S. | DATE 7-29-97

PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)

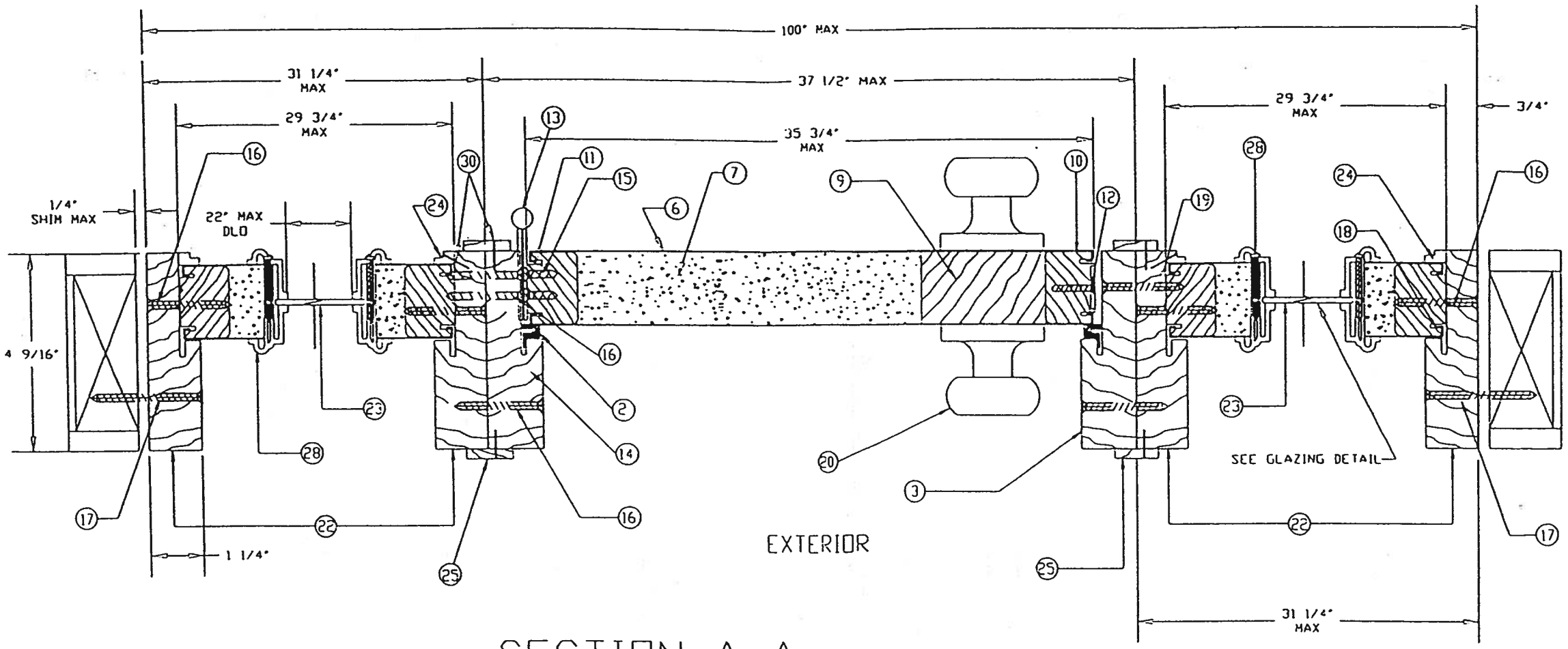
MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-I
SHEET 4 OF 6

REVISION LETTER D

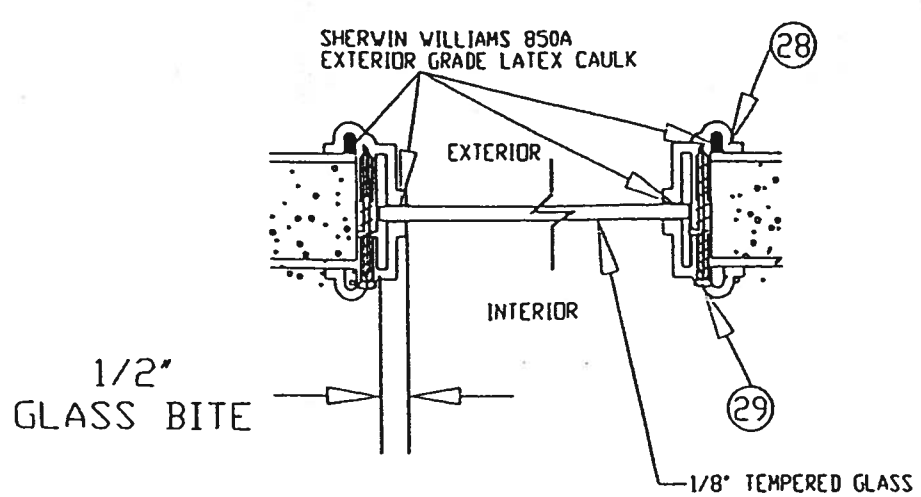
INTERIOR



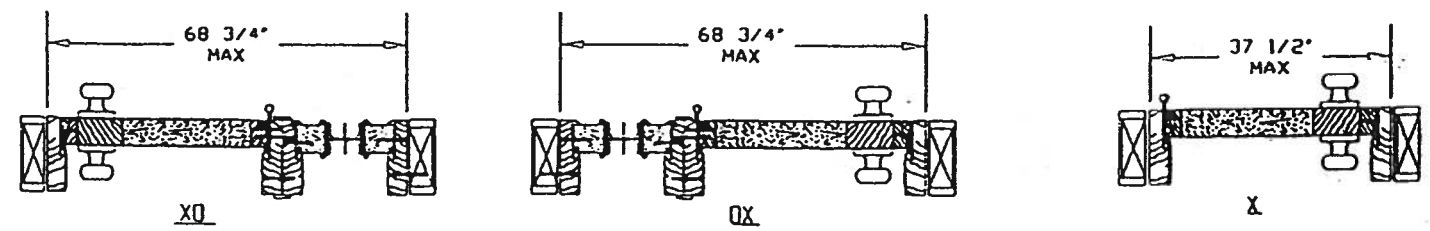
EXTERIOR

SECTION A-A
INSWING

GLAZING DETAIL



OTHER CONFIGURATIONS



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO.

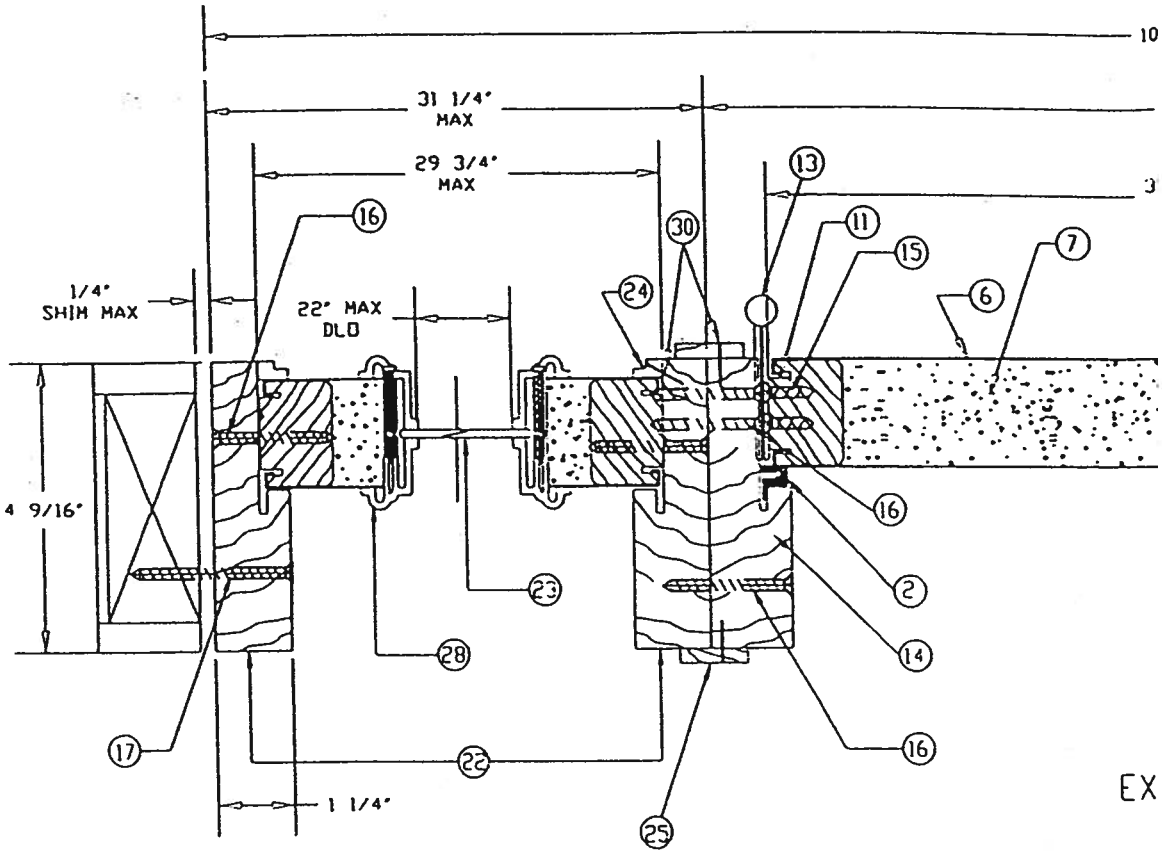
C	DADE COUNTY MODIFICATIONS	5/31/01	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-10-97	RS

LOUIS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD COML. TOLS
ENGINEER:
LIC | REVISIONS | DATE | BY
DR BY R.S. | DATE 7-29-97 | PART NAME: ENTRY DOOR W/SIDELITES (A-A)
MAT'L: | SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1020-EW-1
SHEET 2 OF 6
REVISION LETTER C

INTE

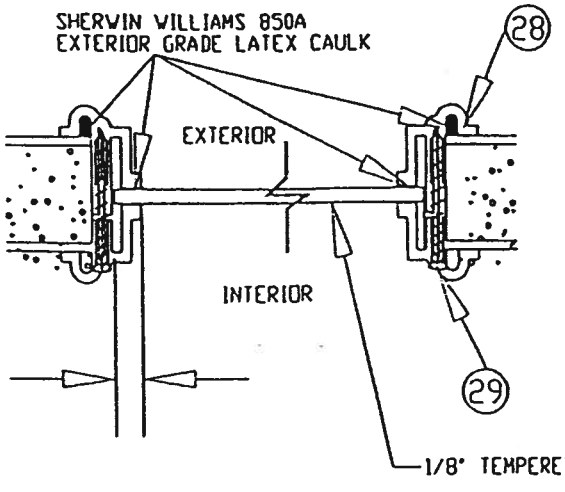


EX

SECTION A-A

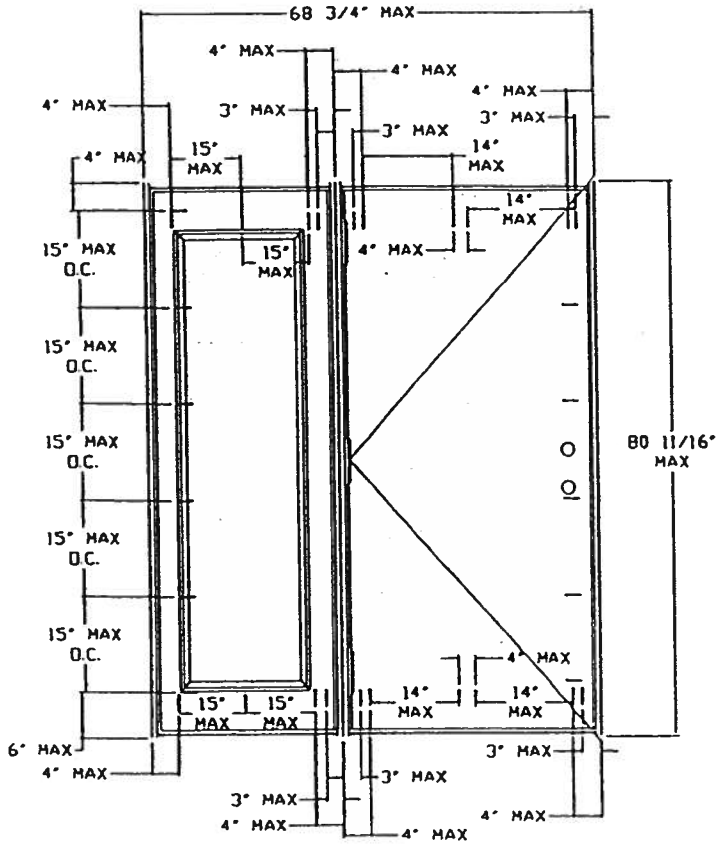
INSWING

GLAZING DETAIL



1/2"
GLASS BITE

OTHER DOOR CONFIGURATIONS



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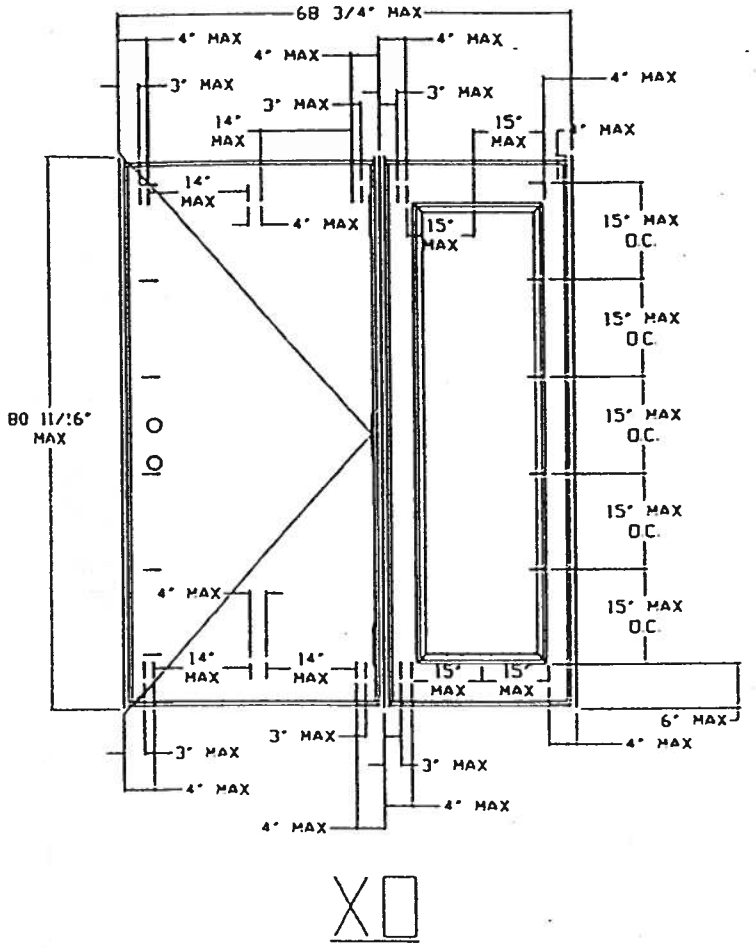

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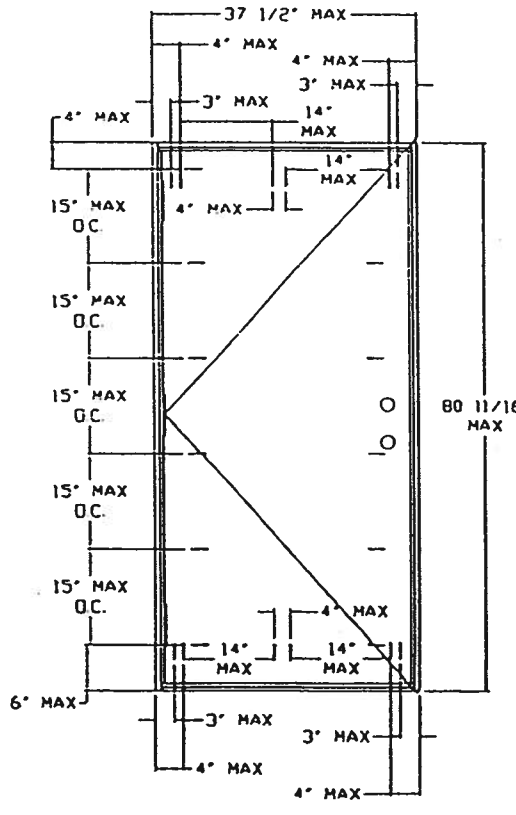

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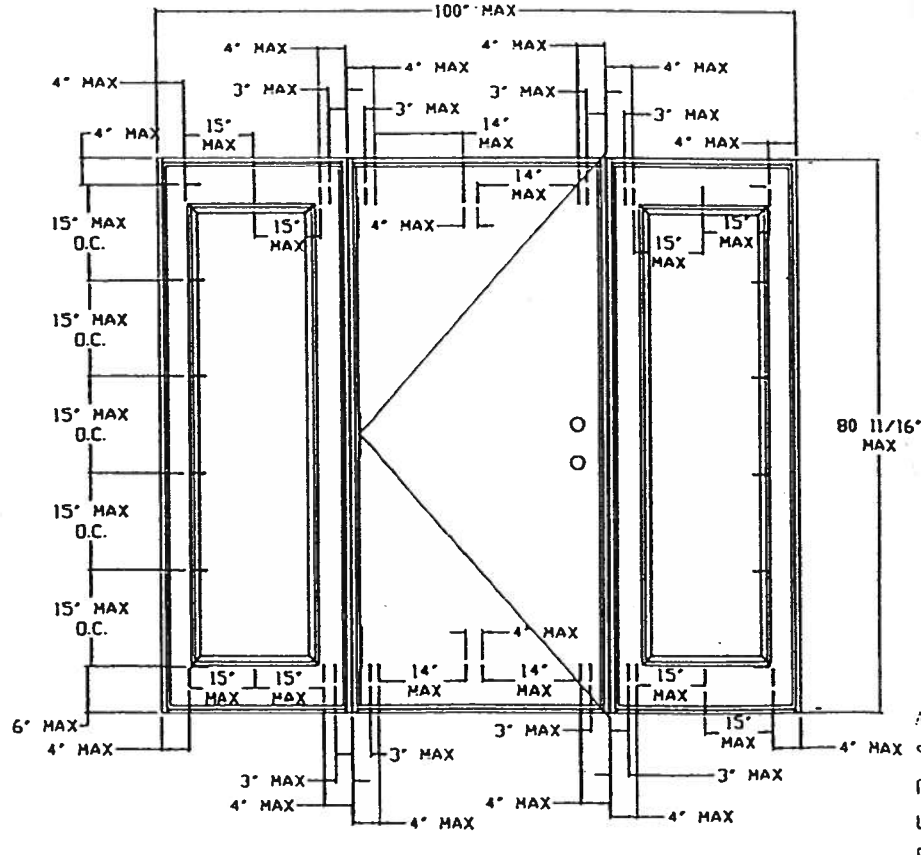

OXO

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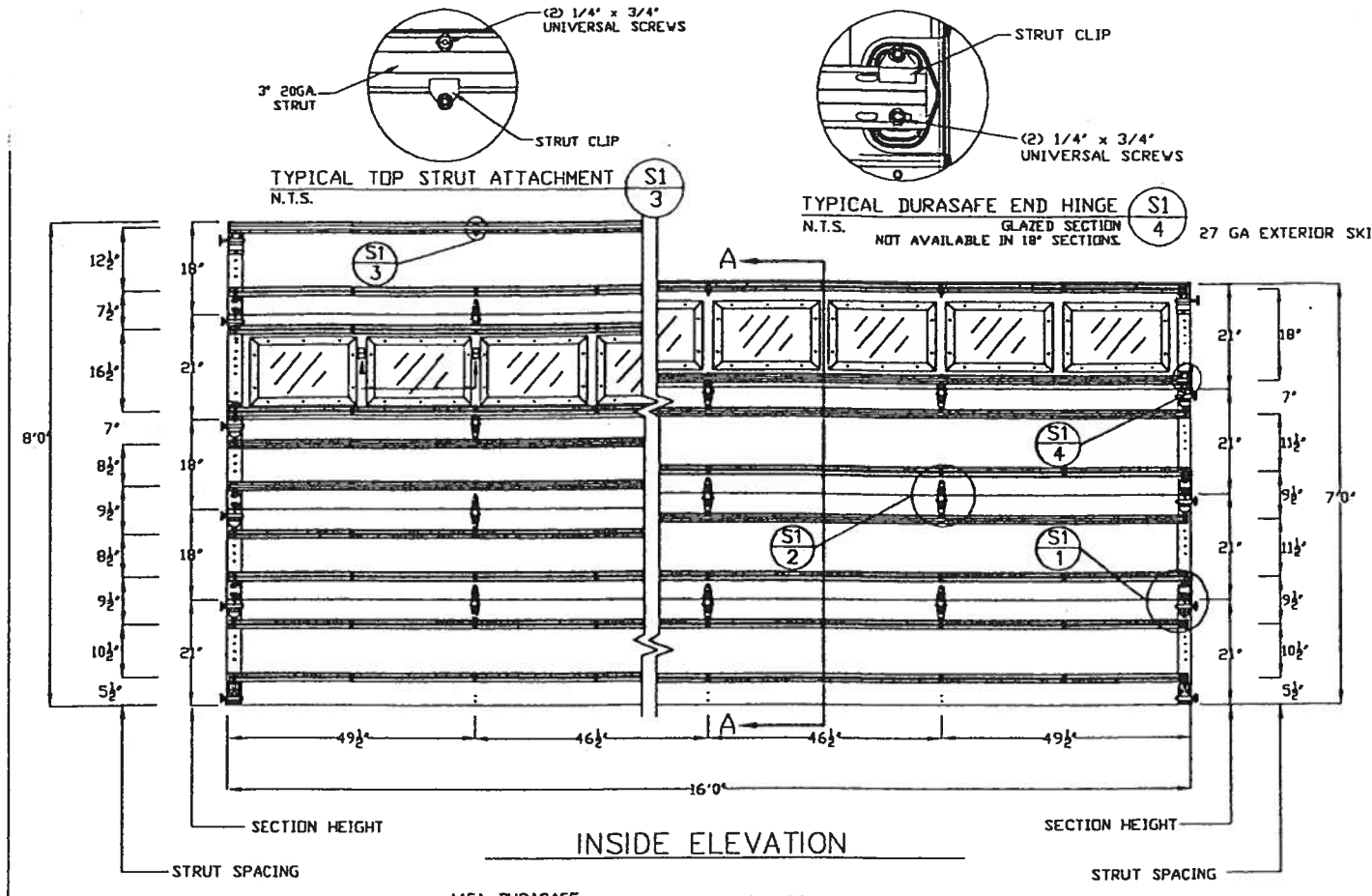
ACCEPTANCE NO 01-0314.18

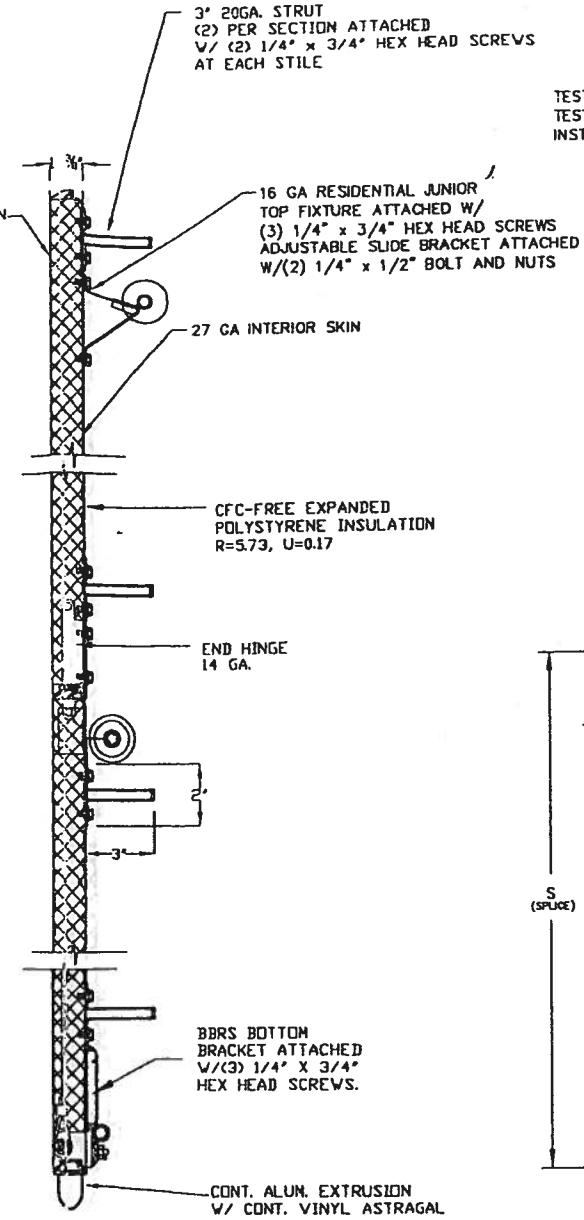
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.			
ENGINEER:	LTR.	REVISIONS	DATE BY
	PART NAME:		
DR. BY J.D. DATE 1-11-01	MAT'L:	SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1020-EW-I
SHEET 5 OF 6

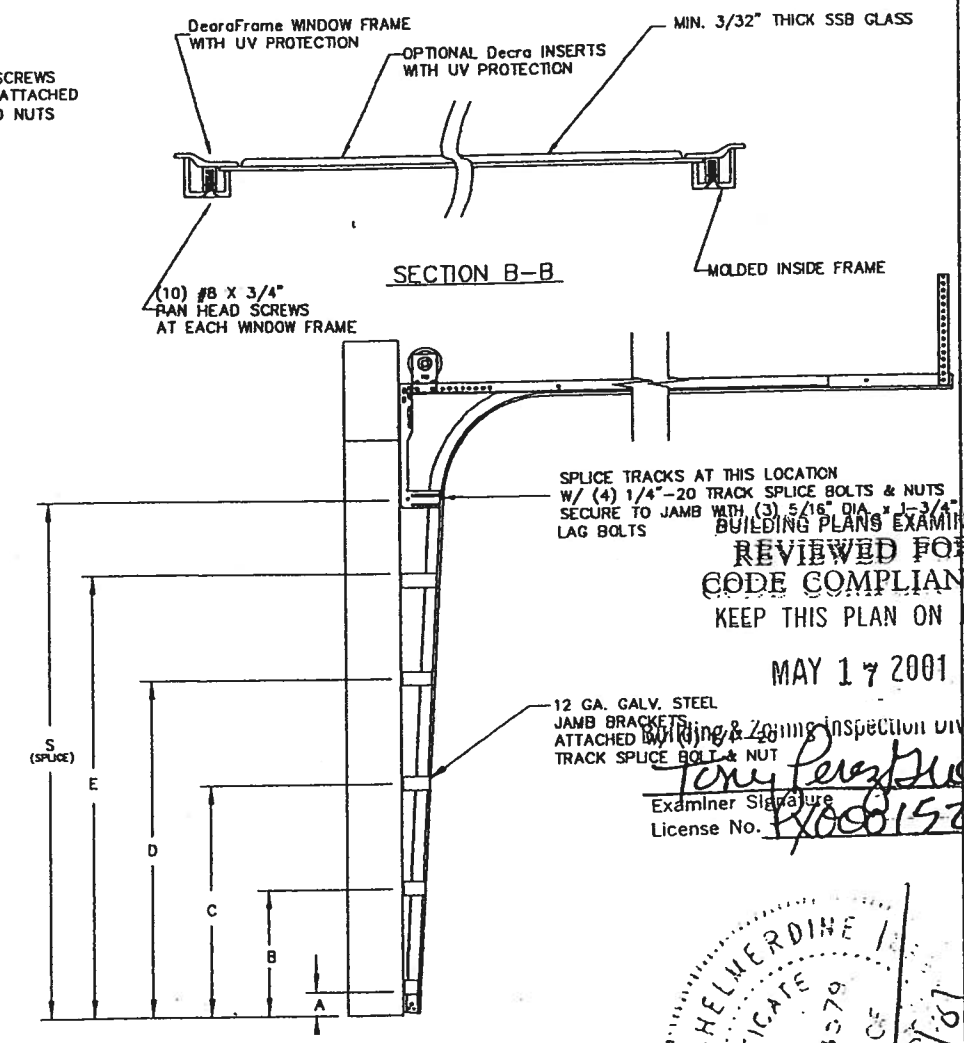
REVISION LETTER





GLAZING OPTION CROSS SECTION

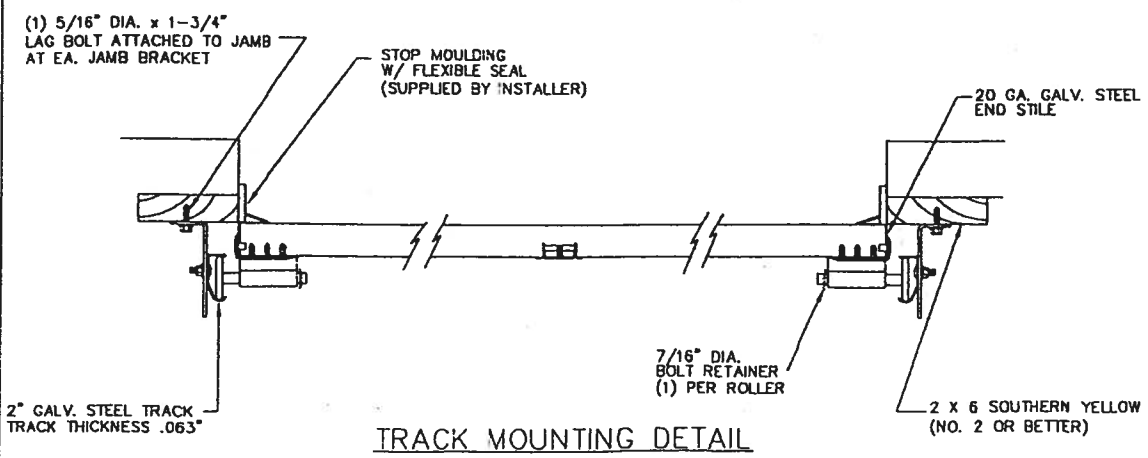
TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' X 7' AND 16' X 8' MODEL 1500-D DOORS.



TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"



TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO 2,300 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

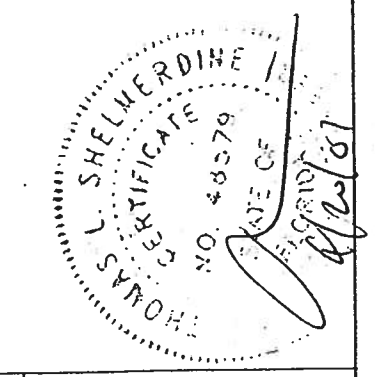
VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.018") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 110 MPH
   B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF C

BUILDING PLANS EXAMINER
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
MAY 17 2001
Building & Zoning Inspection Div. - Jax., FL.
Examiner Signature
License No. R0001520



MAX SIZE 16' x 8'

DESIGN LOADS +29.5 PSF -29.5 PSF

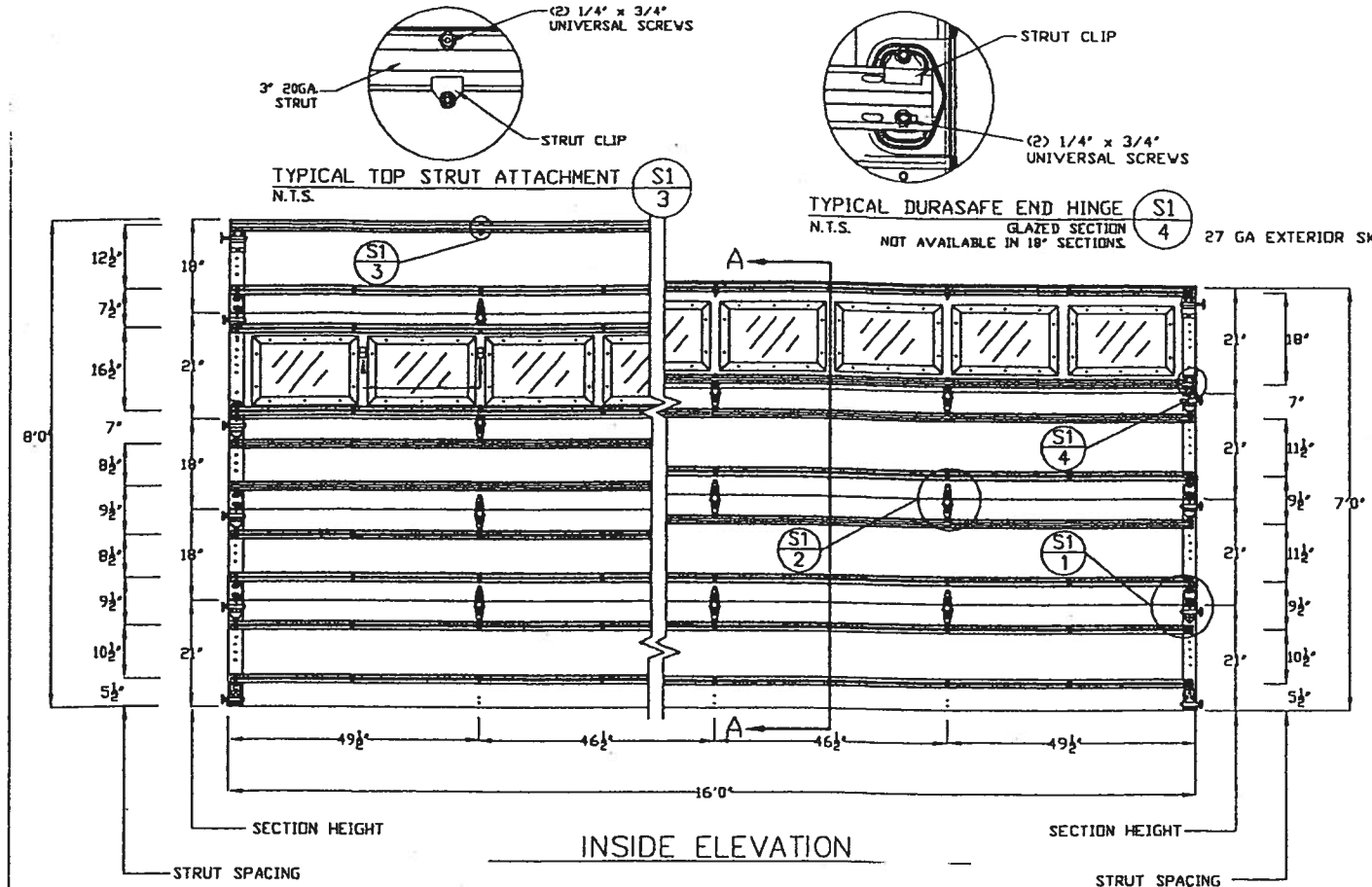
TEST LOADS +45.3 PSF -45.3 PSF

REV	DESCRIPTION OF REVISIONS	DATE	BY

Amarr GARAGE DOORS
5921 GRASSY CREEK BLVD. WINSTON-SALEM, N.C. 27105

MODEL #1500 WeatherGuard

SIZE	DRAWN BY CLJ	DATE 04/16/01	DRAWING NUMBER
B	CHECKED BY	DATE	SBC-580-019-J
SCALE: NOT TO SCALE			SHEET 1 OF 1

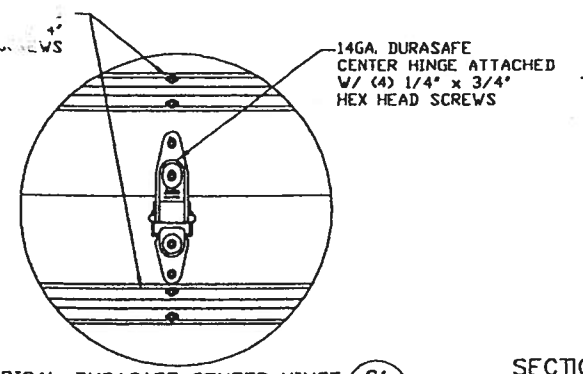


TYPICAL TOP STRUT ATTACHMENT S1/3
N.T.S.

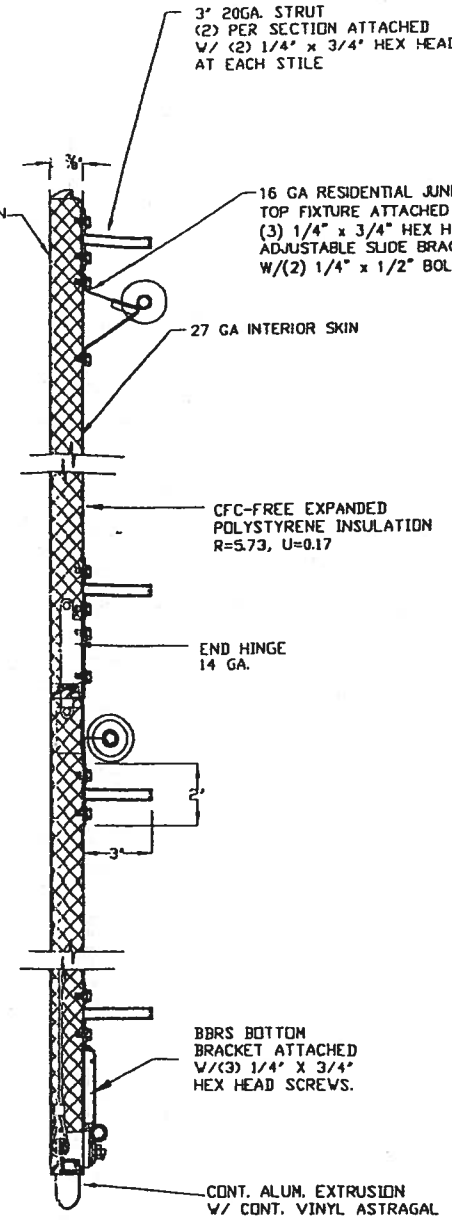
TYPICAL DURASAFE END HINGE S1/4
N.T.S. GLAZED SECTION NOT AVAILABLE IN 18" SECTIONS

INSIDE ELEVATION

TYPICAL DURASAFE END HINGE S1/1
N.T.S. NON GLAZED SECTION



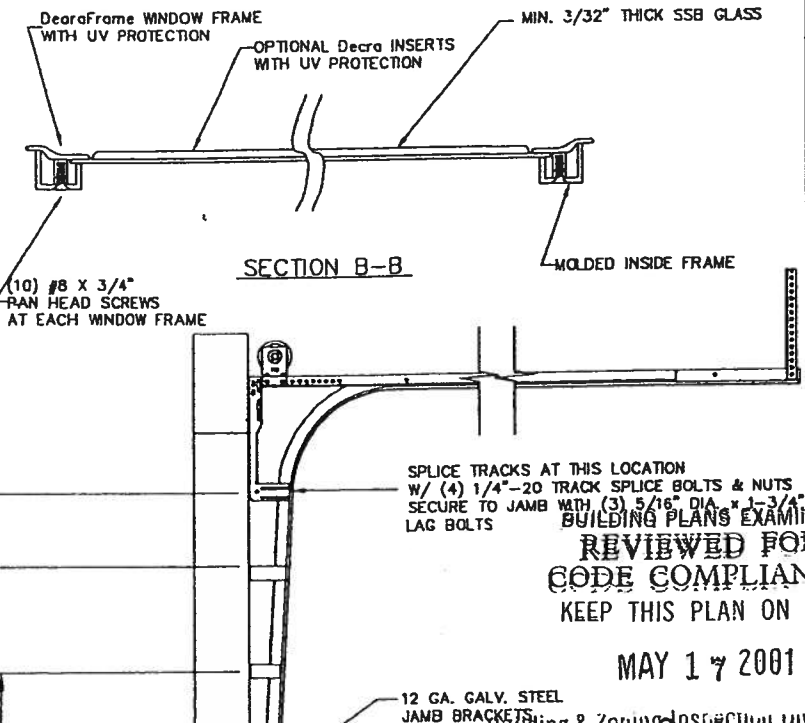
TYPICAL DURASAFE CENTER HINGE S1/2
N.T.S.



SECTION A-A (SIDE VIEW)

GLAZING OPTION CROSS SECTION

TEST No. SBC-580-020 ON MAY 24, 2000 INCLUDED GLASS WINDOWS IN THE DOOR BEING USED. THE TEST PRESSURES WERE +49.5 PSF AND -51.9 PSF. BY COMPARISION, EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF THE 16' X 7' AND 16' X 8' MODEL 1500-D DOORS.

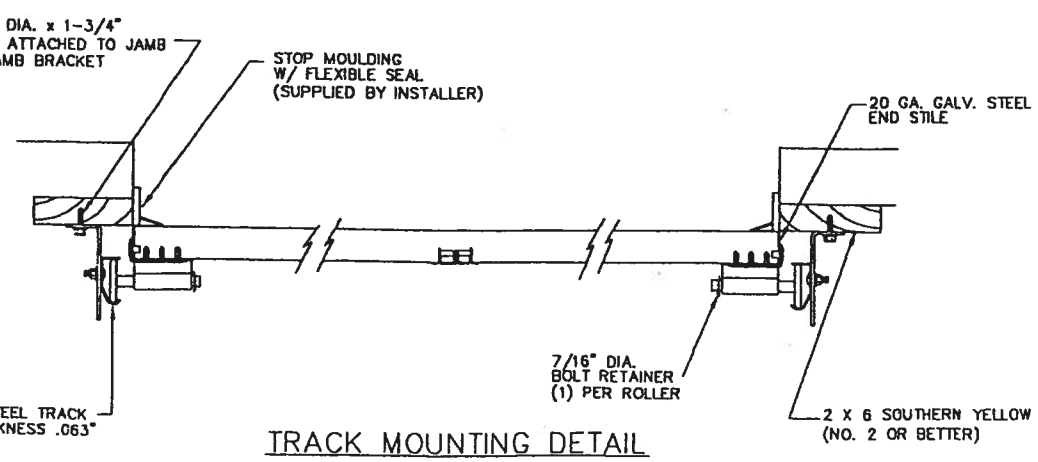


SECTION B-B

TRACK CONFIGURATION FOR 6'6" UP TO 8' TALL DOORS

JAMB BRACKET LOCATIONS

	A	B	C	D	E	S
6'-6"	4"	21-1/2"	39"	57"		70"
7'-0"	4"	21-1/2"	42"	63"		76"
7'-6"	4"	18-1/2"	36"	54"	72"	82"
8'-0"	4"	21-1/2"	39"	57"	75"	88"



TRACK MOUNTING DETAIL

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 110 MPH FASTEST-MILE BASIC WIND SPEEDS

VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C.

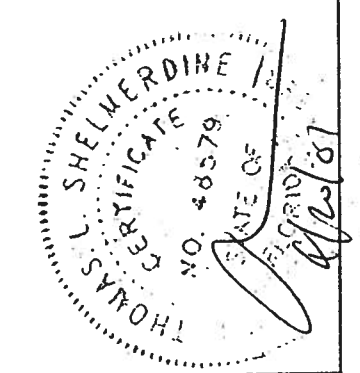
VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C.
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET RED HEAD 3/8" X 3" STARTING 6" FROM ENDS THEN 24" O.C.

VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C.
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 8" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
2. DOOR SECTIONS SHALL BE 27 GA. MIN. (.016") INTERIOR AND EXTERIOR ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
3. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN.
4. DOORS UPTO 8'0" HIGH CONSIST OF (5) SECTIONS AS SHOWN.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330-90, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING THE FOLLOWING PARAMETERS:
   - A. BASIC WIND SPEED OF 110 MPH
   - B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   - C. 15' MEAN ROOF HEIGHT AT ANY SLOPE
   - D. USE FACTOR OF 1.0
   - E. EXPOSURE RATING OF C



MAX SIZE	16' x 8'
DESIGN LOADS	+29.5 PSF -29.5 PSF
TEST LOADS	+45.3 PSF -45.3 PSF

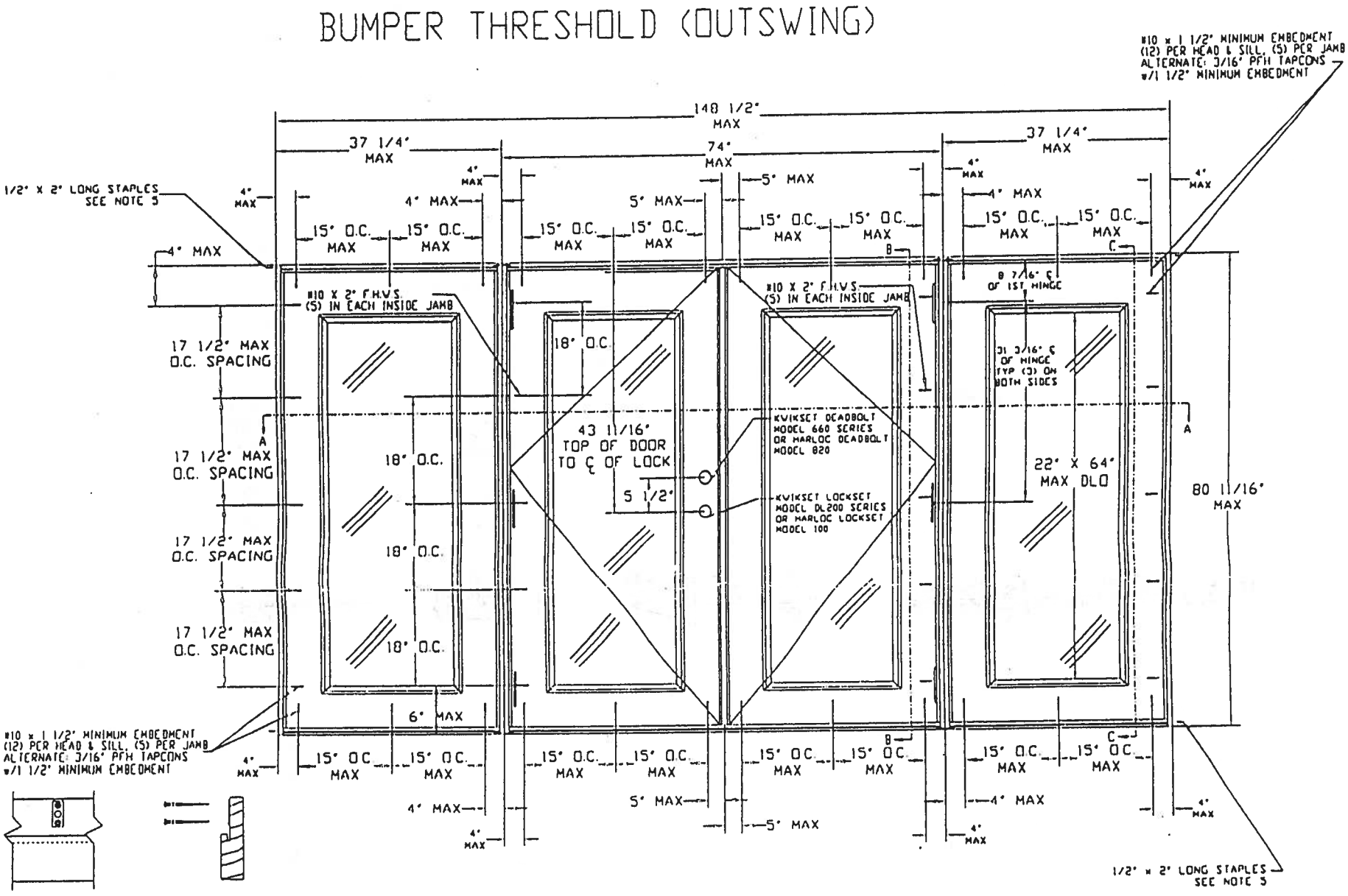
REV	DESCRIPTION OF REVISIONS	DATE	BY

Amarr Garage Doors
5921 GRASSY CREEK BLVD. WINSTON-SALEM, N.C. 27105

MODEL #1500 WeatherGuard

SIZE	DRAWN BY	DLJ	DATE 04/16/01	DRAWING NUMBER
B	CHECKED BY		DATE	SBC-580-019-J
SCALE: NOT TO SCALE				SHEET 1 OF 1

PREMDOR (ENTERGY BRAND) DOUBLE DOOR WITH SIDELITES IN WOOD FRAMES WITH A BUMPER THRESHOLD (OUTSWING)



ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4" FLATHEAD SCREWS

NOTES:

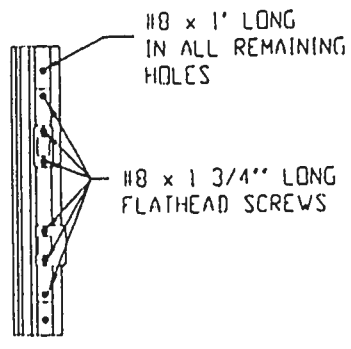
1.) WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2.) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

A. WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.

B. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

C. MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL ONE BY WOOD BUCK.

3. ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PFH TAPCONS WITH 1 1/2" MINIMUM EMBEDMENT INTO MASONRY.
4. UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
5. THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.
6. LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.
7. DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
8. DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
9. FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.



ASTRAGAL

R.H. OUTSWING L.H. OUTSWING

DESIGN PRESSURE RATINGS		
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED ¤	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	+ 50.5 psf	+50.5 psf
Negative	NOT APPROVED¤	-50.5 psf

¤ UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

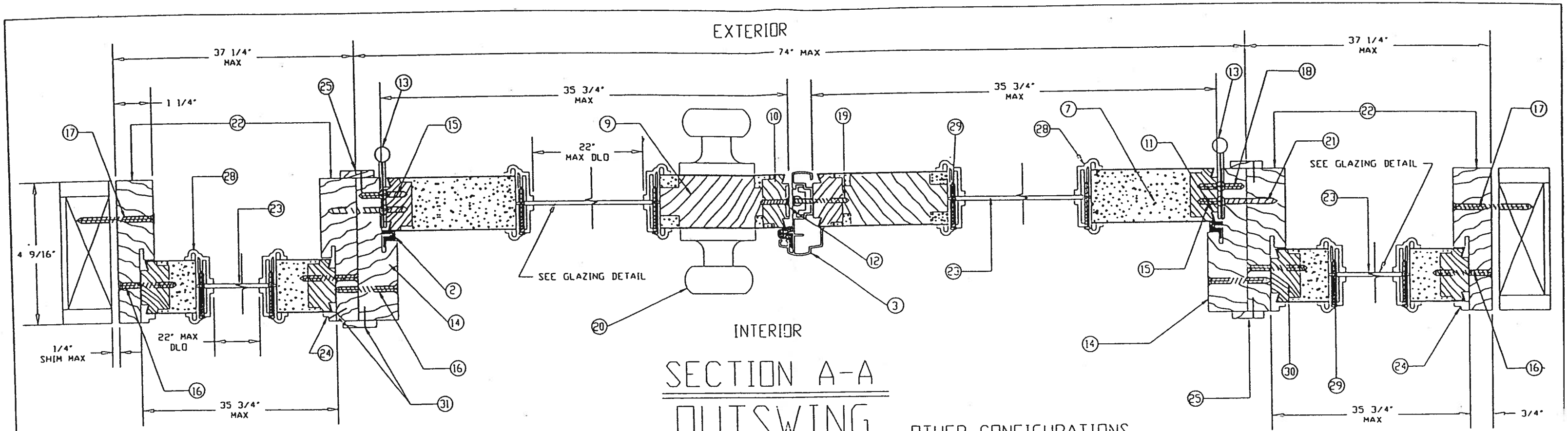
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO 01-0314.29

LTR.	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	1/11/00	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD OTHER DOOR CONFIGURATIONS	12/18/97	RS

LIMITS UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS UNLESS NOTED, STD. COML. TOL'S
ENGINEER:
DR BY R.S. DATE 7-29-97
PART NAME: ENTERGY (WOOD EDGE) DOUBLE DOOR W/SIDELITES
MAT'L: SCALE: N.T.S.

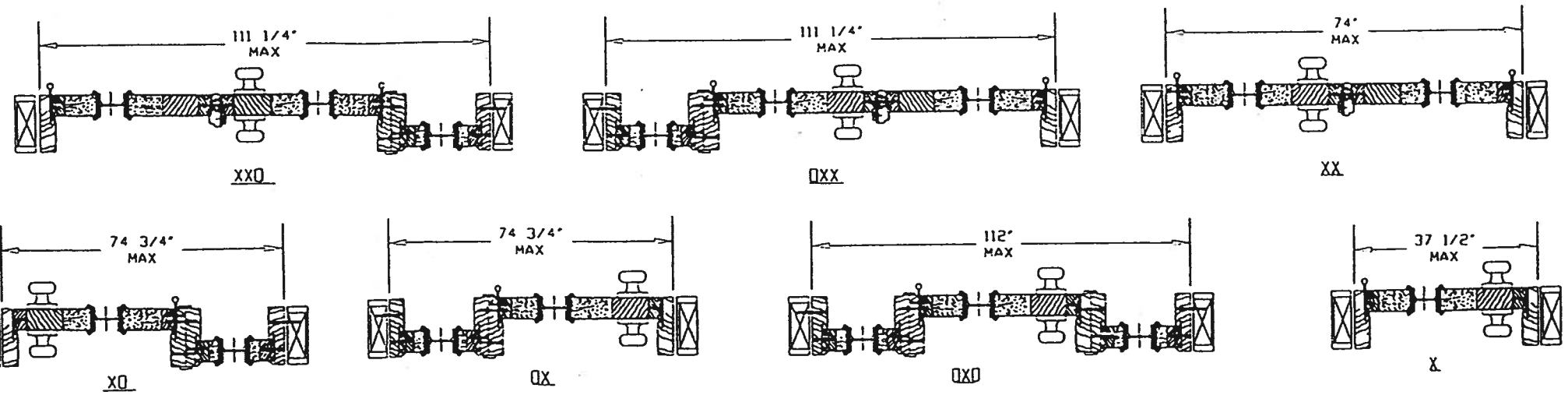
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1028-EW-0
SHEET 1 OF 6
REVISION LETTER C

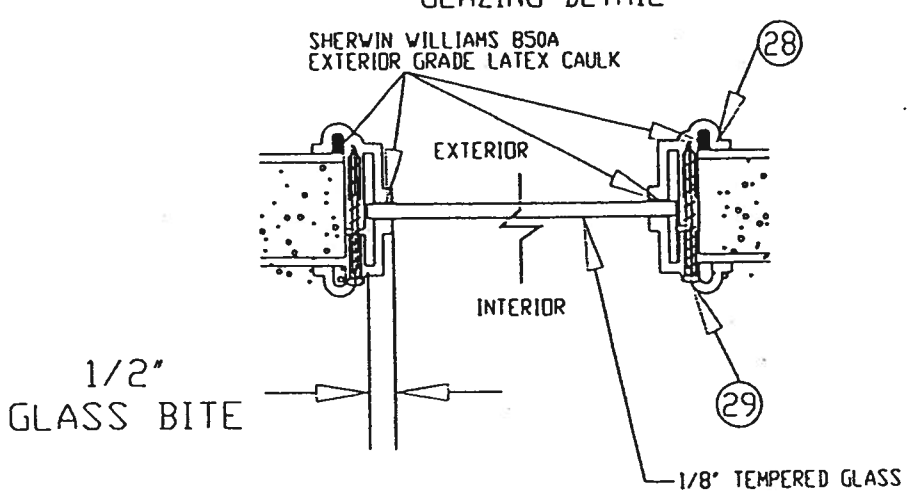


SECTION A-A
OUTSWING

OTHER CONFIGURATIONS



GLAZING DETAIL



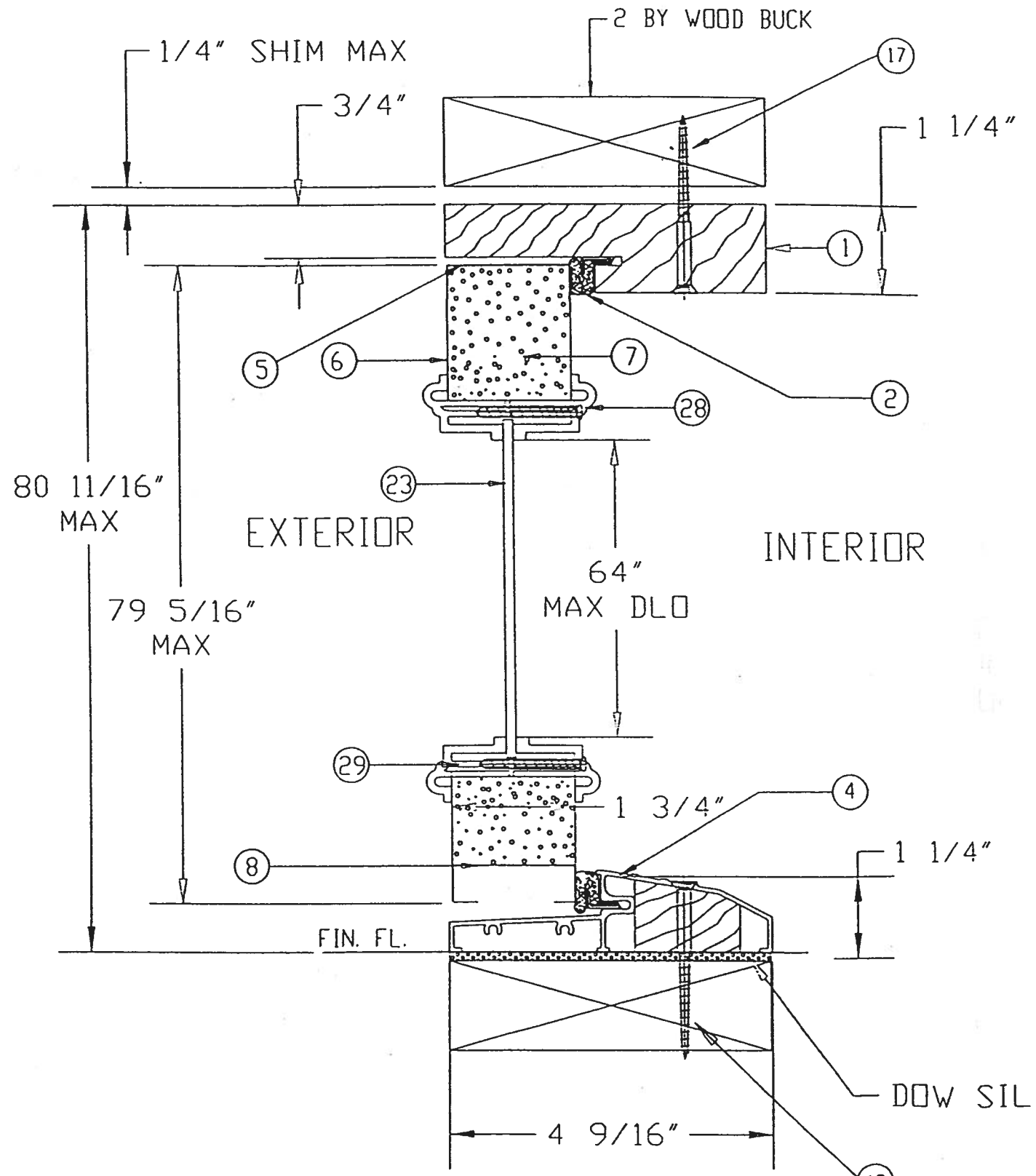
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LTR	REVISIONS	DATE	BY
C	DADE COUNTY MODIFICATIONS	5/11/01	JD
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
A	ADD SCREWS TO LITE FRAMES & ADD OTHER DOOR CONFIGURATIONS	2-18-97	RS

LIMITS: UNLESS NOTED, FRAC : DEC : ANG :
EXTRUSIONS: UNLESS NOTED, STD COML. TOL'S
ENGINEER:
DR BY R.S. | DATE 7-29-97
PART NAME: ENTRY DOOR W/SIDELITES (A-A)
MATL: | SCALE: NTS

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS 66762

31-1028-EW-0
SHEET 2 OF 6
REVISION LETTER C



SECTION B-B

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
①	WOOD HEAD JAMB	EW-14	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
②	COMPRESSION WEATHERSTRIP	EW-25	LOCKSCREEN BRAND LOXSEAL 9650 (BRONZE)
③	ALUMINUM ASTRAGAL	EW-12	PREMDOR BRAND OR EQUIVALENT- 5/8" ALUMINUM ASTRAGAL
④	ALUMINUM-BUMPER THRESHOLD	EW-15	PREMDOR BRAND OR EQUIVALENT - 1 1/4" x 4 9/16"
⑤	TOP CHANNEL	EW-08	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑥	STEEL SKIN	26 ga. (.017 +.004 -.000)	MIN. YIELD STRENGTH 45,000 PSI MIN. THICKNESS PER TESTABLE TEST REPORT IS .021"
⑦	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 lbs./ft³	
⑧	BOTTOM CHANNEL	EW-07	PREMDOR BRAND - 1 11/16" - 20 GA STEEL
⑨	WOOD LOCK BLOCK	EW-09	4" X 9 1/2" MTL. TO BE PINE OR EQUIVALENT
⑩	STRIKE STILE	EW-06	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑪	HINGE STILE	EW-05	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
⑫	LOCK PREP FILLER PLATE	EW-10	PREMDOR BRAND - .050" THICK- MTL. TO BE POLYETHYLENE
⑬	4"x4" HINGE	EW-16	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
⑭	WOOD HINGE JAMB	EW-13	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
⑮	#10 x 3/4" F.H.W.S.		(4) SCREWS PER HINGE INTO DOOR
⑯	#10 X 2" F.H.W.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIDELITE JAMB, 8" DOWN FROM TO MAX 18" O.C. THEREAFTER (10) SCREWS THROUGH STRIKE JAMB INTO SIDELITE JAMB, 4" DOWN FROM TO MAX 8" O.C. THEREAFTER (6) SCREWS THROUGH EACH SIDELITE JAMB INTO SIDELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
⑰	#10 F.H.W.S. W/MINIMUM 1 1/2 EMBEDMENT OR 3/16" PFH TAPCONS W/MINIMUM 1 1/2" EMBEDMENT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
⑱	#10 X 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
⑲	#8 x 2" F.H.W.S.		(2) SCREWS AT EACH STRIKE PLATE
⑳	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
㉑	#10 X 1 3/4" F.H.W.S.		(2) SCREWS PER HINGE INTO JAMB
㉒	WOOD SIDELITE JAMB	EW-19	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉓	22" X 64" SINGLE PANEL GLASS	EW-29	TEMPERED GLASS IN POLYPROPYLENE FRAME- DC-1643 - (ODL- 1/8" CLEAR TEMPERED GLASS
㉔	SIDELITE TRIM (WOOD)	EW-21	5/16 x 1/2" MTL. TO BE PINE OR EQUIVALENT
㉕	WOOD CASING	EW-22	1/8" x 1" MTL. TO BE PINE OR EQUIVALENT - ITEMS ARE MOLDINGS US FOR "SIDE BY SIDE JAMBS" AS MULLIONS
㉖	WOOD SIDELITE HEAD JAMB	EW-23	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉗	WOOD SIDELITE BASE	EW-24	1 1/4" X 4 9/16" MTL. TO BE PINE OR EQUIVALENT
㉘	POLYPROPYLENE LITE FRAME	DC-1643, ODL-2	HP Polypropylene by ODL
㉙	#6 X 1 1/2" PAN HEAD SCREWS		18 PER FRAME SCREW SPACING TO BE 3" IN FROM EACH CORNER AND N TO EXCEED 14" OC THERE AFTER.
㉚	SIDELITE STILES	EW-26	15/16" X 1 11/16" MTL. TO BE PINE OR EQUIVALENT
㉛	PIN NAIL		3/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THEREAFTER, USED ON MULLIONS AND TR

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

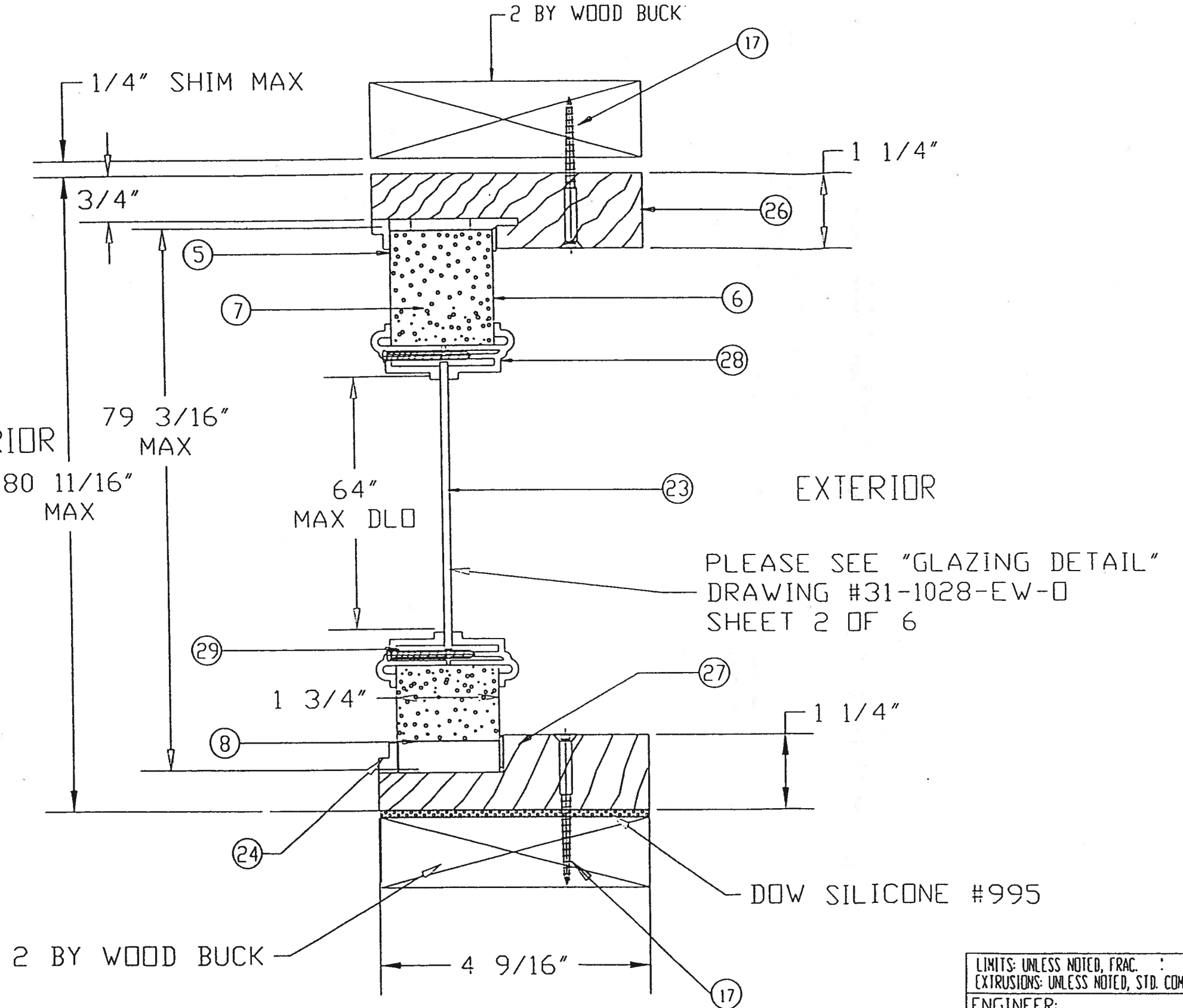
LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :	B	DADE COUNTY MODIFICATIONS	1/11/01	JD
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.	A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	RS
ENGINEER:	LTR.	REVISIONS	DATE	BY
	PART NAME: ENTERGY WOOD EDGE DOOR (B-B)			
DR. BY R.S. DATE 7-29-97	MAT'L:		SCALE:	

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

A

31-1028-EW-0
SHEET 3 OF 6

REVISION LETTER B



SECTION C-C

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LTR.	REVISIONS	DATE
D	DADE COUNTY MODIFICATIONS	1/11/01
C	MATERIAL WAS POLYSTYRENE	6-2-99
B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98
A	ADD SCREWS TO LITE FRAME & MATERIAL LIST	12-18-9

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

PART NAME: ENTERGY WOOD EDGE SIDELITE (C-C)

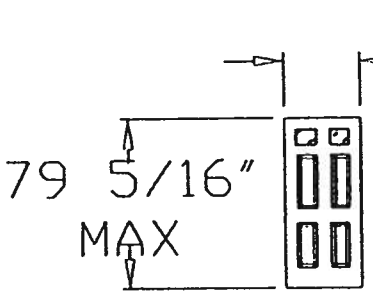
DR. BY R.S. | DATE 7-29-97 | MAT'L: | SCALE:

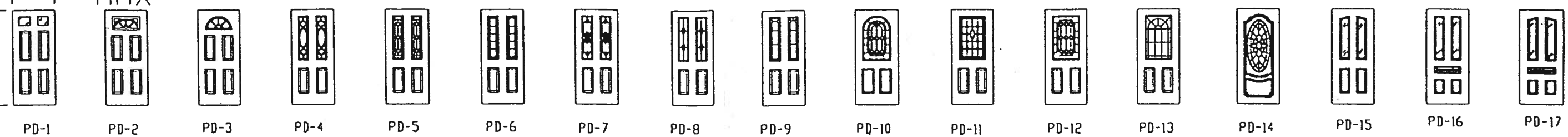
PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

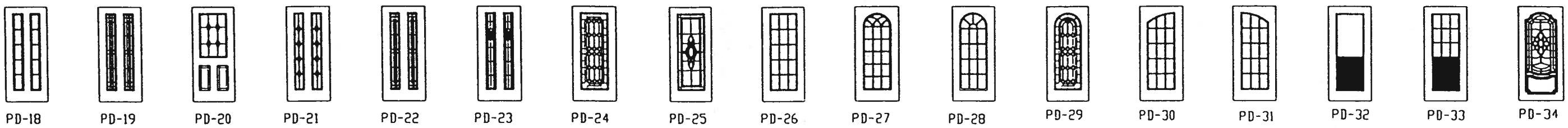
31-1028-EW-0
SHEET 4 OF

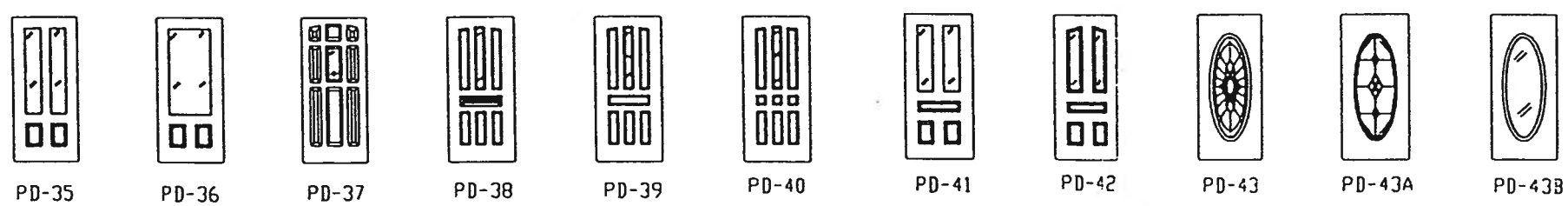
REVISION LETTER

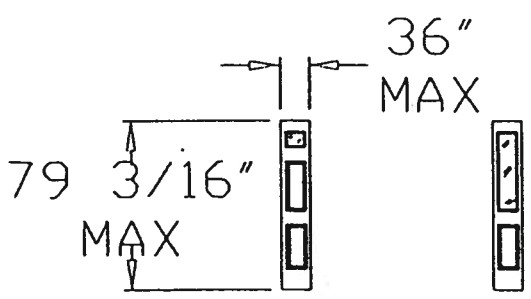
OTHER GLAZED DOOR PANEL/SIDELITE STYLES W/SURFACE APPLIED MUNTINS

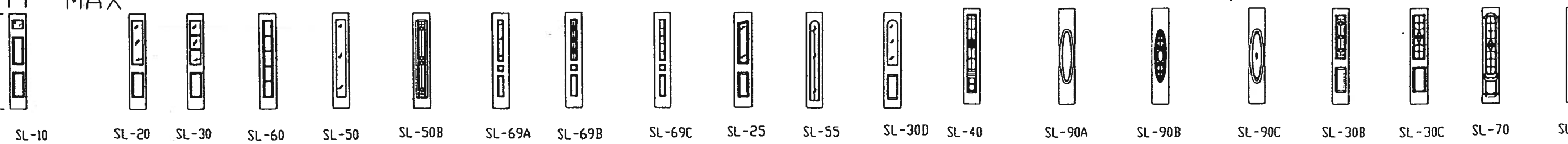








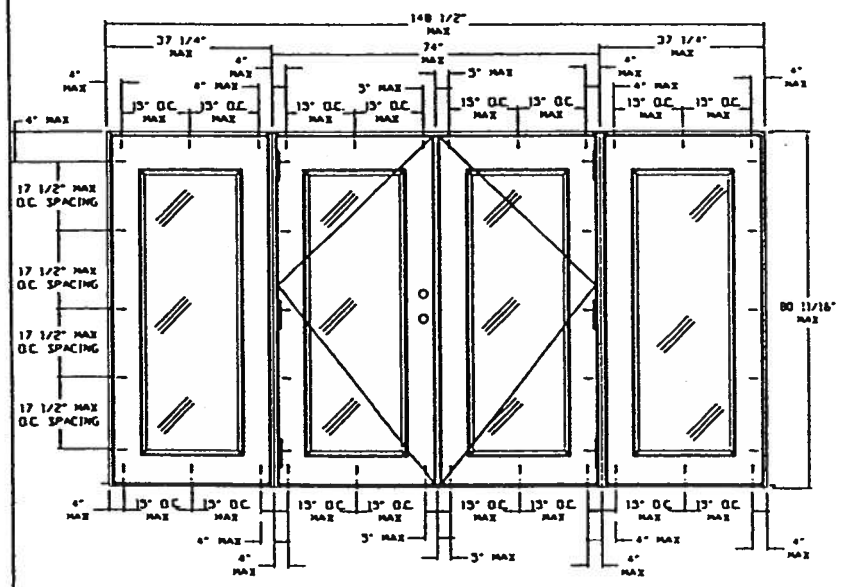




APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Sura
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. : EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.			
ENGINEER:	LTR.	REVISIONS	DATE
	PART NAME: PREMDOR DOOR OPTIONS		
DR. BY J.D. DATE 1/15/01	MAT'L:	SCALE:	
PREMDOR ENTRY SYSTEMS 911 E. JEFFERSON PITTSBURG, KS. 66762	31-1028-EW-[illegible] SHEET 6 OF		
	REVISION LETTER		

OTHER DOOR CONFIGURATIONS



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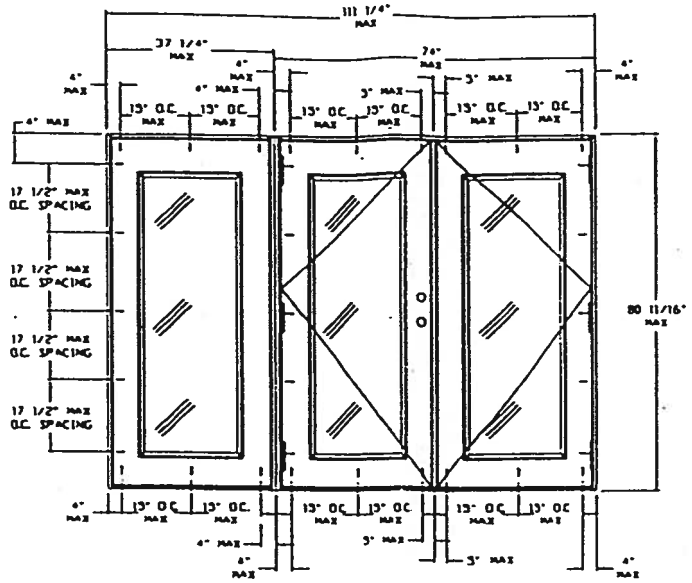

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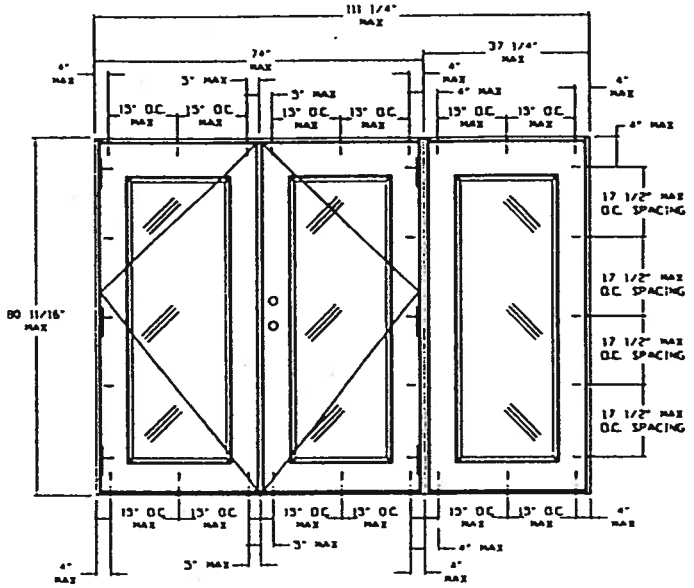

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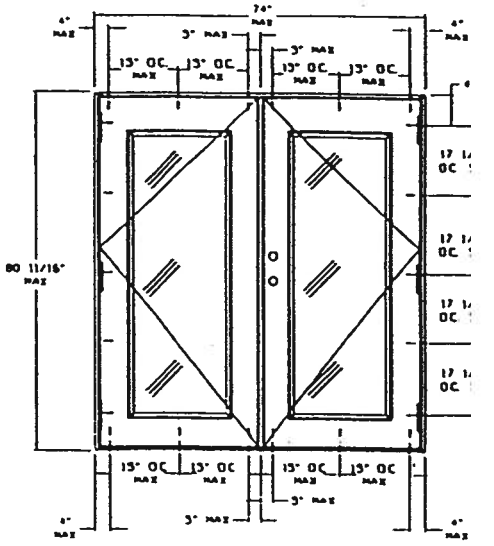

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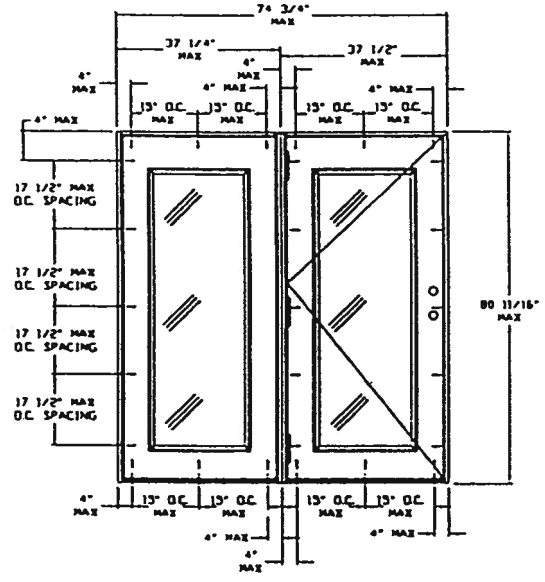

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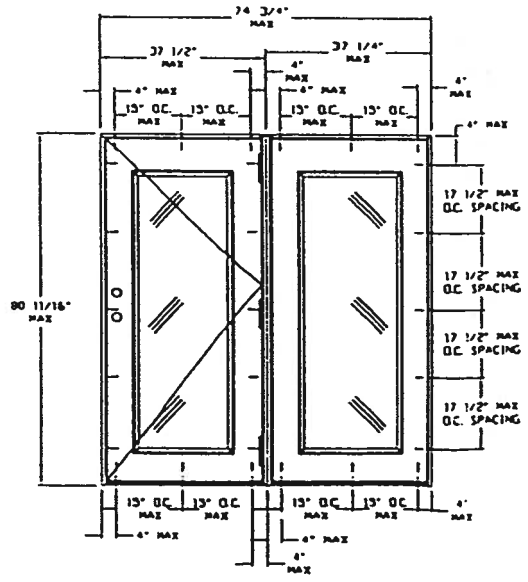

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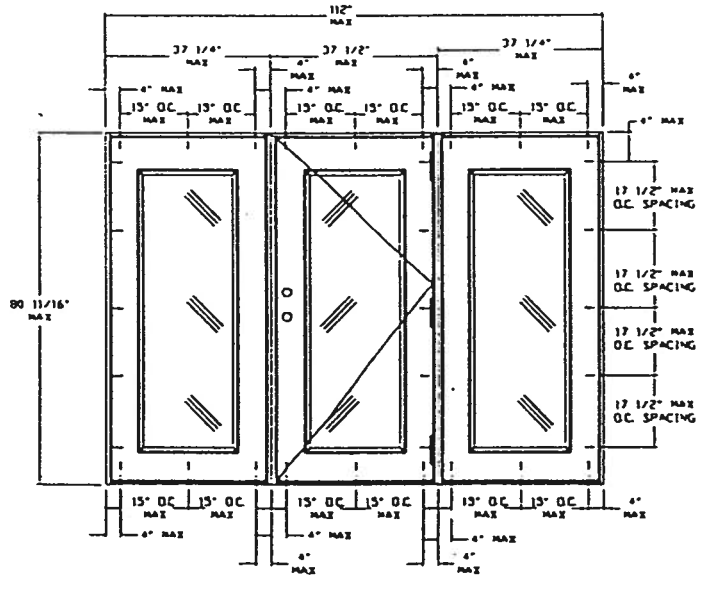

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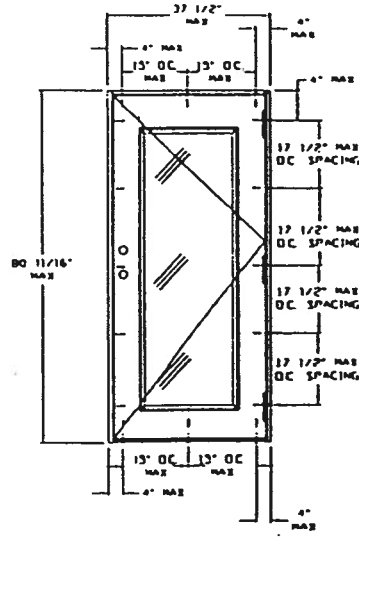

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APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY Manuel Perez
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.29

LIMITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS: UNLESS NOTED, STD. COM'L. TOL'S.

ENGINEER:

LTR.	REVISIONS	DATE

PART NAME:

DR. BY J.D. | DATE 1-11-01 | MAT'L: | SCALE:

PREMDOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURG, KS. 66762

31-1028-EW
SHEET 5 OF 6

REVISION LETTER