

DATE 1/17/2005

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000023870

APPLICANT STEPHEN CRAWFORD PHONE 755.5068
ADDRESS POB 1330 LAKE CITY FL 32056
OWNER ADAM & KIM SERVICE PHONE 386.497.3733
ADDRESS 275 SW SCENIC COURT FT. WHITE FL 32038
CONTRACTOR STEPHEN CRAWFORD PHONE 755.5068

LOCATION OF PROPERTY 47-S TO C-238,TR TO JUNCTION RD,TR TO COLLINS RD,TR, AFTER
1ST RIGHT ON COLLINS IS PROPERTY.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 93200.00

HEATED FLOOR AREA 1864.00 TOTAL AREA 3113.00 HEIGHT .00 STORIES 2

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 08-6S-16-03801-007 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 5.01

RR0067266
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
PRIVATE 05-1145-E BLK JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROAD.(KYLIE-PROPOSED I.D. #)

M/H MUST BE REMOVED BEFORE FINAL C.O.ISSUANCE.

Check # or Cash 6919

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 470.00 CERTIFICATION FEE \$ 15.57 SURCHARGE FEE \$ 15.57

MISC. FEES \$.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$.00 WASTE FEE \$

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 576.14

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.



SERIES/TYPE	MPH ZONE(S)	REQUIRED MULLION	MAXIMUM SIZES ALLOWED		
			SINGLE UNIT	TWIN UNIT	TRIPLE UNIT
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	N/A	N/A	53-1/8" x 72"	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 130 MPH	VERTICAL MULL #CM-65130	N/A	53-1/8" x 72"	53-1/8" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	VERTICAL MULL #CM-65130	N/A	53-1/8" x 63" OR 42" x 72"	53-1/8" x 63" OR 42" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 130 MPH	VERTICAL MULL #CM-65129	N/A	53-1/8" x 72"	53-1/8" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	VERTICAL MULL #CM-65129	N/A	53-1/8" x 63" OR 42" x 72"	53-1/8" x 63" OR 42" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #CM-65131	N/A	53-1/8" x 72" w/T RANSOM	32" x 72" w/T RANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #CM-65131	N/A	45" x 72" w/T RANSOM	30" x 72" w/T RANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #CM-65129	N/A	37" x 72" w/T RANSOM	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #CM-65129	N/A	30" x 72" w/T RANSOM	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #5767	N/A	53-1/8" x 72" w/T RANSOM	32" x 72" w/T RANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #5767	N/A	45" x 72" w/T RANSOM	30" x 72" w/T RANSOM

Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible due to the quality of the scan. It appears to be organized into several columns and rows, possibly representing a ledger or a list of entries. Some faint words like "Name", "Address", and "Occupation" might be discernible in the header area, suggesting a directory or census record.

SERIES/TYPE	MPH ZONE(S)	REQUIRED MULLION	MAXIMUM SIZES ALLOWED		
			SINGLE UNIT	TWIN UNIT	TRIPLE UNIT
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #5765	N/A	53-1/8" x 72" w/T RANSOM	32" x 72" w/T RANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #5765	N/A	45" x 72" w/T RANSOM	30" x 72" w/T RANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 110 MPH	SELF- STACKING SILL #CM-45026	53-1/8" x 72" w/T RANSOM	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	SELF- STACKING SILL #CM-45026	48" x 72" w/T RANSOM	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	SELF- STACKING SILL #CM-45026	37" x 72" w/T RANSOM	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	(NO MULLION)	N/A	36" x 72"	36" x 72"



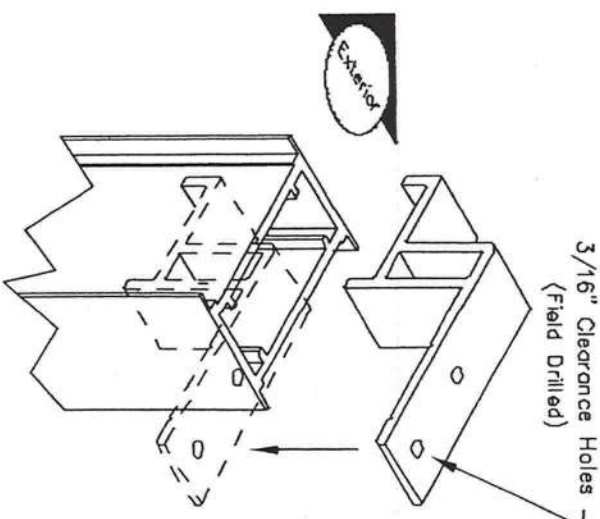
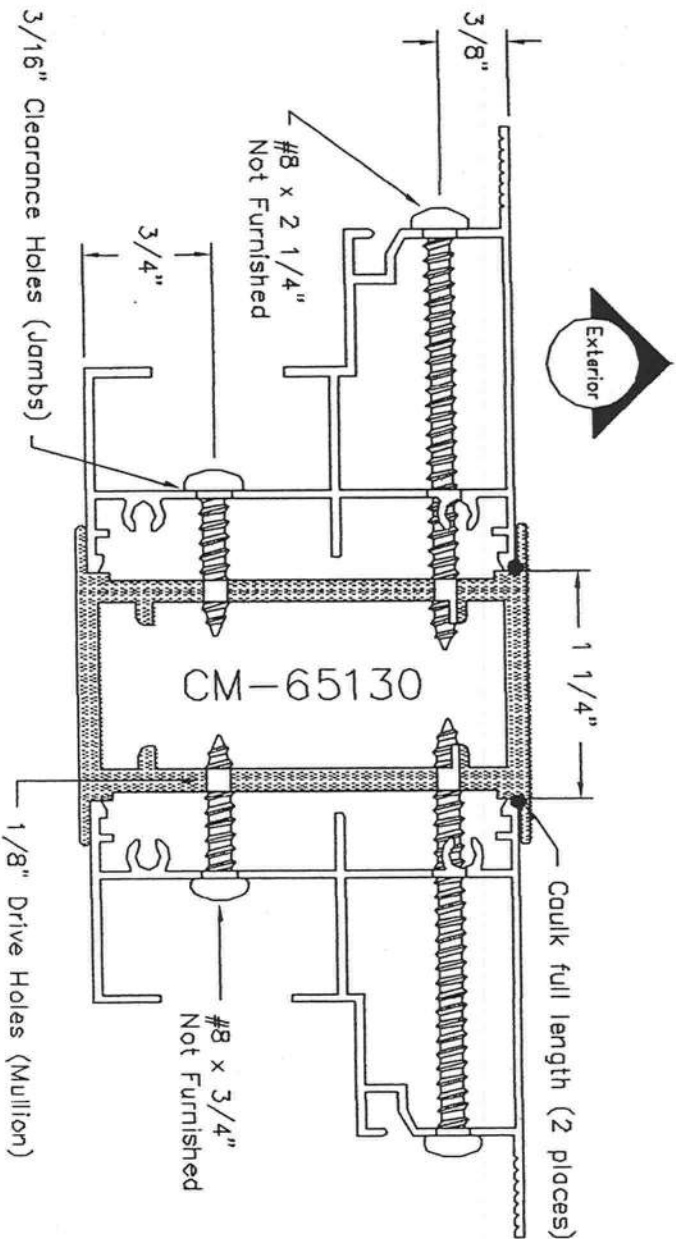
STRUCTURAL VERTICAL MULLION - NAIL FIN type

650 SH / PW

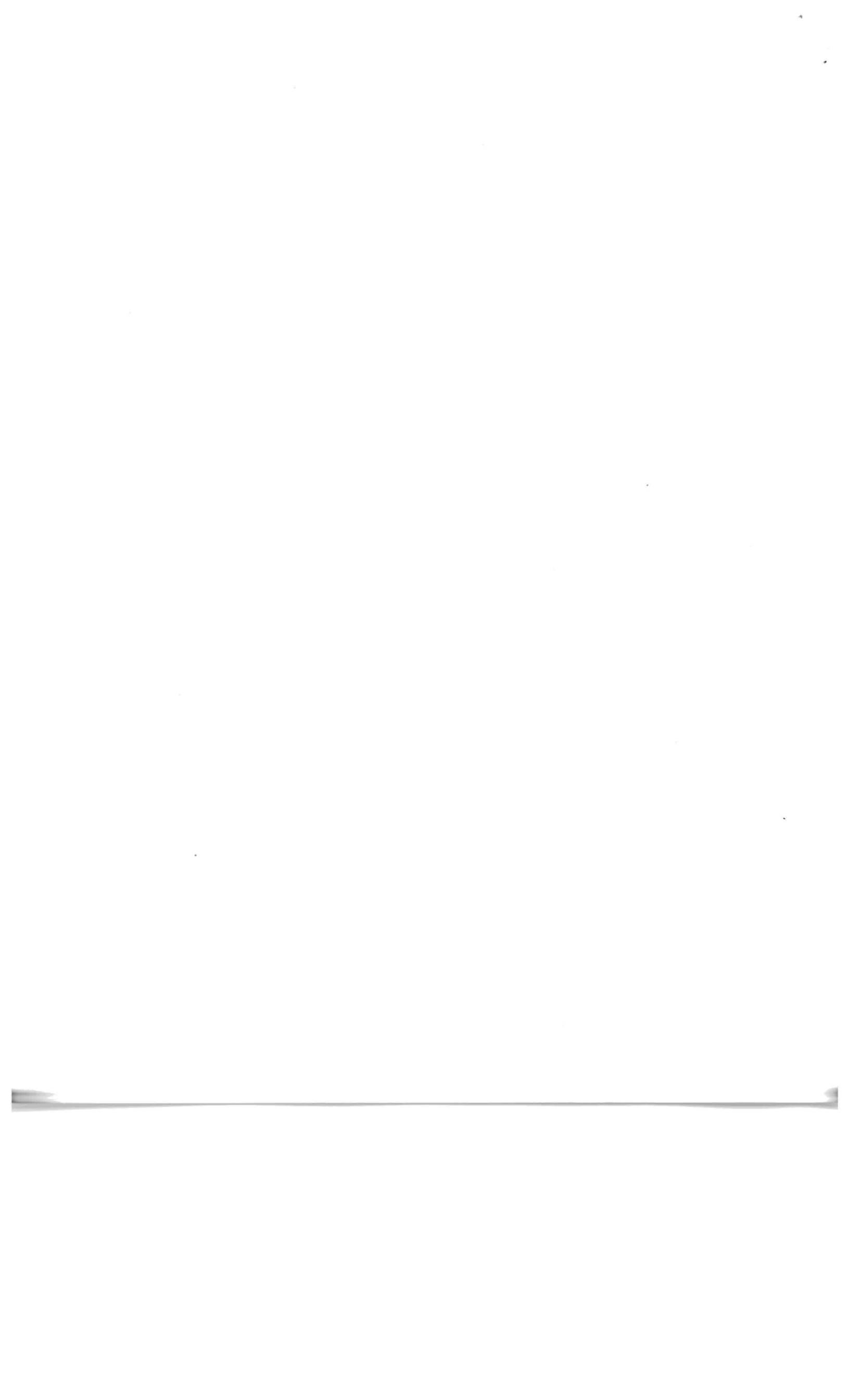
MULLION PART # CM-65130

NOTE: If adding a transom, roundhead, etc., saw $1/4"$ off the top of the mull before joining units and refer to horizontal mull instruction sheet.

- Step 1.** Strip fins from windows where mulls are to be used.
- Step 2.** Apply a bead of caulk in the mull to seal against window jambs.
- Step 3.** Place windows and mullions together as shown below.
- Step 4.** The single hung jamb has an exterior track (screen area - bottom half of window) and an interior track (operating sash - upper half of window). In these areas only, drill $1/8"$ pilot holes through the jambs into the mullion, then re-drill the jambs only with $3/16"$ clearance holes. Holes should be spaced evenly on approximately 12" to 16" centers.
- Step 5.** Attach windows to mullion using $\#8 \times 2 1/4"$ sheet metal screws (not included) through drilled holes in bottom half below. Attach using $\#8 \times 3/4"$ screws in top half as shown. To avoid jamb distortion, do not overtighten screws.
- Step 6.** The gap between window jambs at the top must be flashed and caulked and preferably be covered by construction / overhang to prevent water leakage.
- Step 7.** Before lifting into rough opening, drill two holes in each clip and insert into each end of mull as shown below with tab pointing to inside. Fasten each clip tab to construction with two $\#10 \times 1 1/2"$ screws for structural integrity.



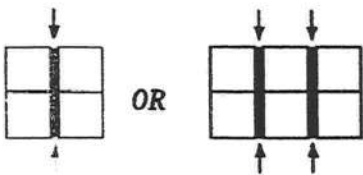
NOTE: SEE REVERSE SIDE FOR FASTENING REQUIREMENTS.



650 SERIES - VERTICAL MULL - FIN

MI HOME PRODUCTS

VERTICAL MULLION DESIGN LOAD CAPACITIES
FOR ALUMINUM TUBE MULLION (DIE # CM-65130)



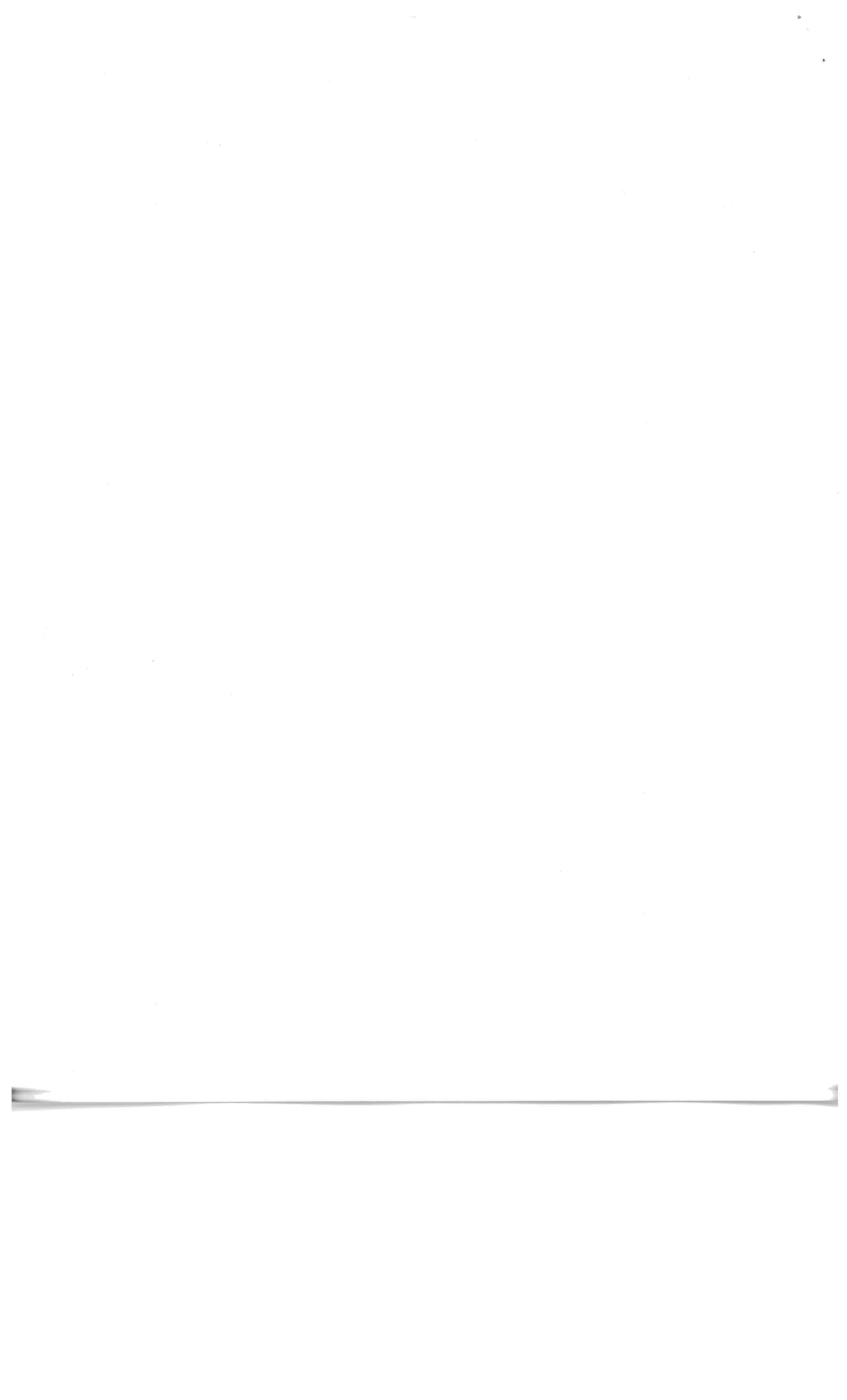
WDW. WIDTH > MULLION SPAN V	19.125	24.000	26.500	36.000	37.000	48.000	53.125
36.000	576	506	483	450	450	450	450
37.375	528	461	439	402	402	402	402
48.000	291	248	233	198	196	186	186
50.625	245	208	194	164	162	151	150
60.000	142	119	111	91	89	79	77
63.000	122	102	94	77	75	66	64
72.000	80	66	61	49	48	41	39
72.250	79	65	60	48	48	41	39

CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (DIE NO: CM-65130)
READ WINDOW WIDTH AND HEIGHT IN INCHES.
DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
WINDOW WIDTH DIMENSIONS REPRESENT THE WIDTH OF EACH WINDOW IN A SINGLE OPENING, NOT THE OVERALL WIDTH OF THE OPENING.
DESIGN PRESSURE VALUES SHOWN ON THE ABOVE CHART IS NOT LIMITED TO ONLY TWO WINDOWS IN A SINGLE OPENING CAPACITIES APPLY TO ANY NUMBER OF WINDOWS IN A SINGLE OPENING, PROVIDED WINDOW WIDTH AND MULLION SPAN ARE NOT EXCEEDED.
 $D_{max} = L / 175$
INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
250 INTERNATIONAL PARKWAY
SUITE 250
HEATHROW, FLORIDA 32746
PHONE 407 805-0365 / FAX 407 805-0366

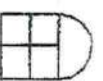
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STRUCTURAL HORIZONTAL MULLION - NAIL FIN type

650 SH / PW



NOTE: If you are stocking a single unit over another single unit, such as a roundhead over a single hung, NO HORIZONTAL MULL IS REQUIRED.

IMPORTANT 1 Before you begin, 1/4" must be sawed off the top end of the vertical mullion before the lower windows are twinned. Follow all steps on vertical mull instruction sheet first.

Note: • Overall length of mull is to be the same as the overall frame to frame dimension of the mullied units below, including the vertical mull. EXAMPLE: For twin 3'-0" mull length will be 35 1/8" window + 1 1/4" mull + 35 1/8" window = 71 1/2".

Step 1. Strip fins from head of windows to be mounted below transom.

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

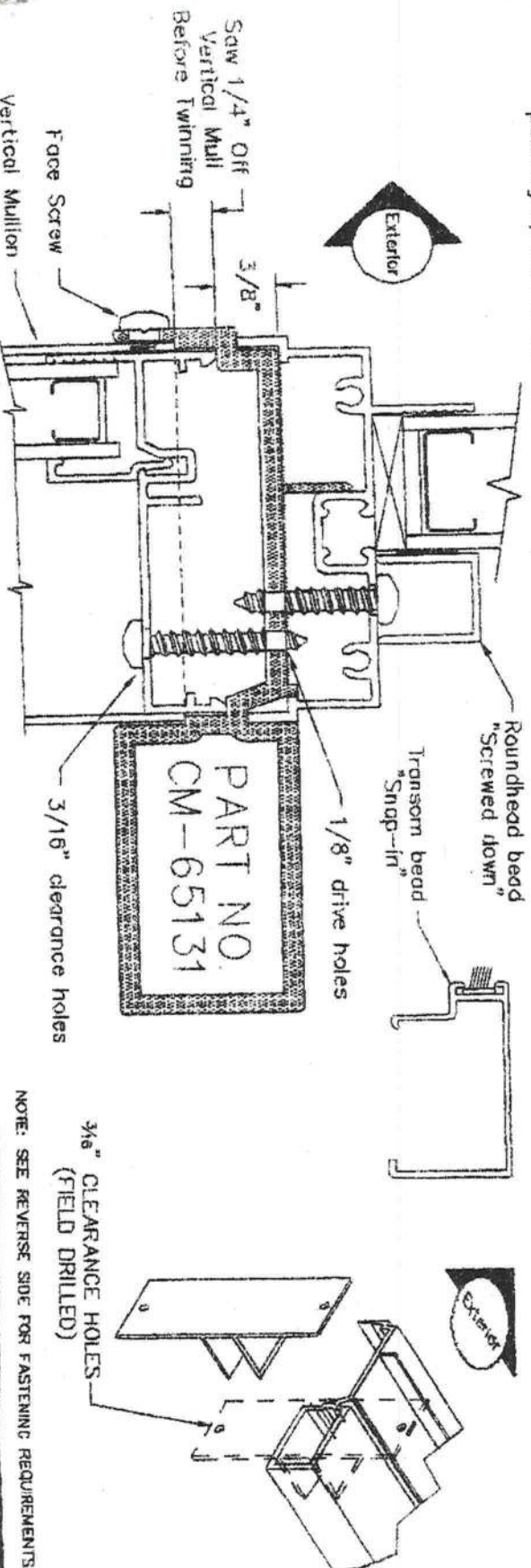
Step 3. Remove bottom glazing bead from transom / roundhead. With a 1/8" drill bit, pre-drill down through the sill and into the mullion. Re-drill sill hole only to 3/16". Fasten with #8 X 1" sheet metal screws (not included).

Step 4. Again with the 1/8" drill, drill up through the heads of the lower units into the mull. Re-drill heads of lower unit with 3/16" drill and fasten with #8 X 1" sheet metal screws.

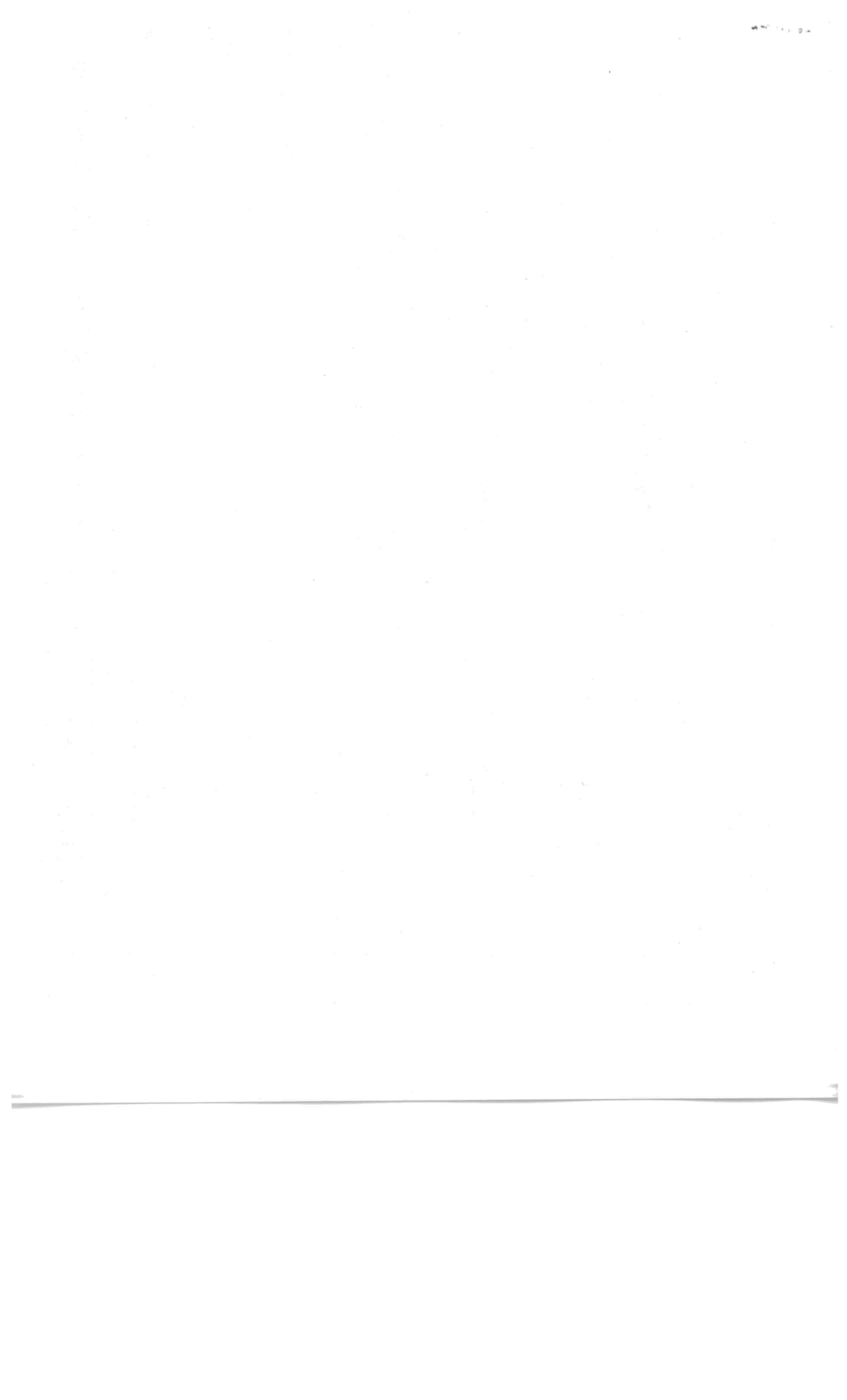
PLACE SCREWS 3" FROM EACH END AND DO NOT EXCEED 18" SPACING OF REMAINING SCREWS.

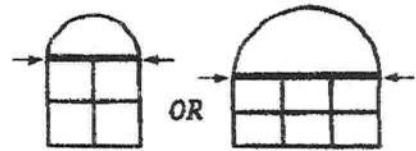
Step 5. The vertical mull "telescopes" 3/8" into the underside of the horizontal mull to lock it in place structurally. To fasten, drill a 1/8" hole, as shown below, through the horizontal mull and vertical mull. For best appearance, countersink and use a flathead screw.

Step 6. Before lifting into rough opening, drill two holes in each clip and insert into each end of mull as shown below with tabs pointing up and down. Fasten each clip tab to construction with two #10 X 1 1/2" screws for structural integrity.



NOTE: SEE REVERSE SIDE FOR FASTENING REQUIREMENTS.



MI HOME PRODUCTS**HORIZONTAL MULLION DESIGN LOAD CAPACITIES
FOR EXTRUDED ALUMINUM TUBE MULLION (CM-65131)
WHEN USED FOR MULLING TRANSOM**

MULL SPAN > WDW. HGT. V	48.000	53.000	72.000	74.000	96.000	106.250	108.000
26.000	338	260	115	107	53	37	35
36.000	309	235	103	96	48	33	31
38.375	305	231	101	94	47	33	31
48.000	298	222	94	87	43	30	28
50.625	298	221	93	86	43	30	28
60.000	298	221	90	83	40	28	26
63.000	298	221	89	82	40	28	26
72.000	298	221	88	81	39	27	25
72.250	298	221	88	81	39	27	25

NOTES:

- * CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (CM-65131) USED HORIZONTALLY.
- * CHART ASSUMES TRANSOM HEIGHT TO BE ONE HALF MULLION SPAN.
- * WINDOW HEIGHTS SHOWN ON "Y" AXIS OF CHART DESIGNATE HEIGHT OF WINDOWS BELOW MULLION AND DO NOT INCLUDE TRANSOM HEIGHT.
- * READ MULLION SPAN AND WINDOW HEIGHT IN INCHES.
- * DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
- * DESIGN LOAD CAPACITIES SHOWN ON THIS CHART DO NOT CONSIDER ANY STRENGTH WHICH MAY BE OBTAINED FROM FRAME MEMBERS OF ADJACENT WINDOWS.
- * $D_{max} = L / 175$
- * INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

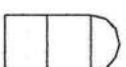
PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
 250 INTERNATIONAL PARKWAY
 SUITE 250
 HEATHROW, FLORIDA 32746
 PHONE 407 805-0365 / FAX 407 805-0366



SELF STACKING SILL - NAIL FIN type

SILL PART No. CM-45026

650 SH / PW



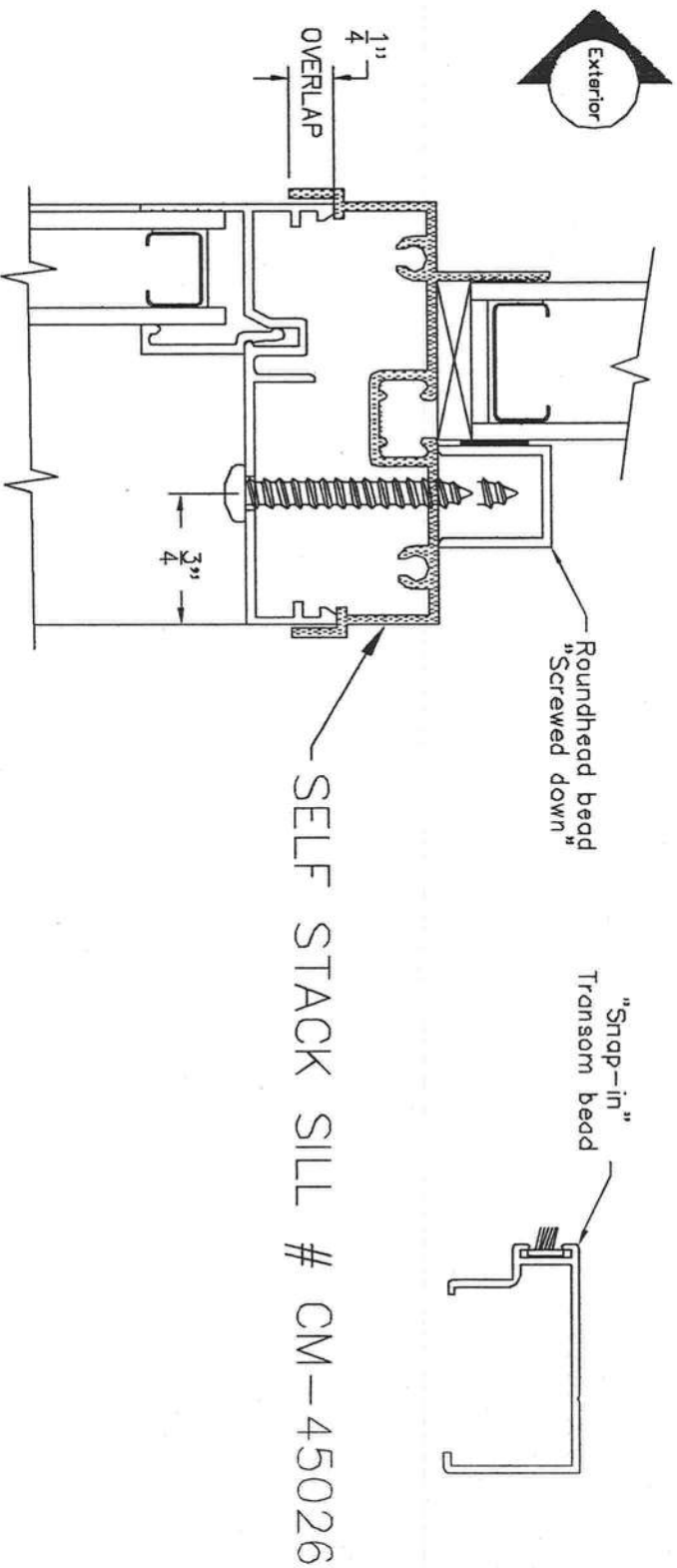
Step 1. Strip fin from head of window to be mounted below the transom / roundhead.

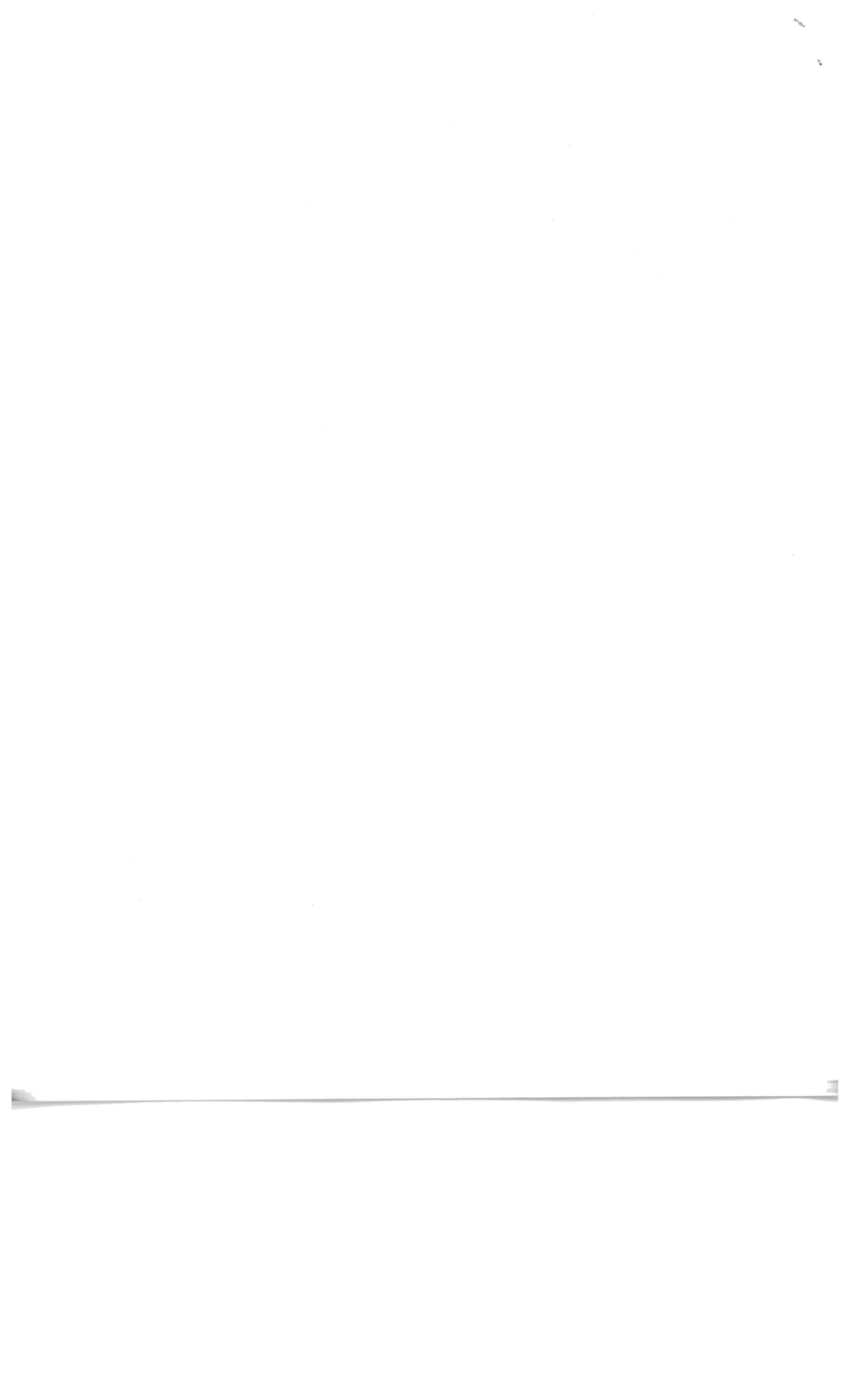
Step 2. Place windows together as shown below.

Note. Place attachment screws $3/4"$ in from the inside face of the window so the screw points come out under the glazing bead and are concealed.

PLACE SCREWS $3"$ FROM EACH END AND DO NOT EXCEED $18"$ SPACING OF REMAINING SCREWS.

Step 3. With the $1/8"$ drill, drill up through the head of the lower unit into the sill of the transom. Re-drill head of lower unit with $3/16"$ drill and fasten with #8 x $1 1/4"$ or $1 1/2"$ sheet metal screws. Do not over tighten screws as distortion could occur.





650 SERIES-TRANSOM STACKING SILL-FIN

MI HOME PRODUCTS

HORIZONTAL MULLION DESIGN LOAD CAPACITIES
FOR EXTRUDED ALUMINUM STACKING MULLION (CM-45026)
WHEN USED FOR MULLING TRANSOM OVER A SINGLE WINDOW



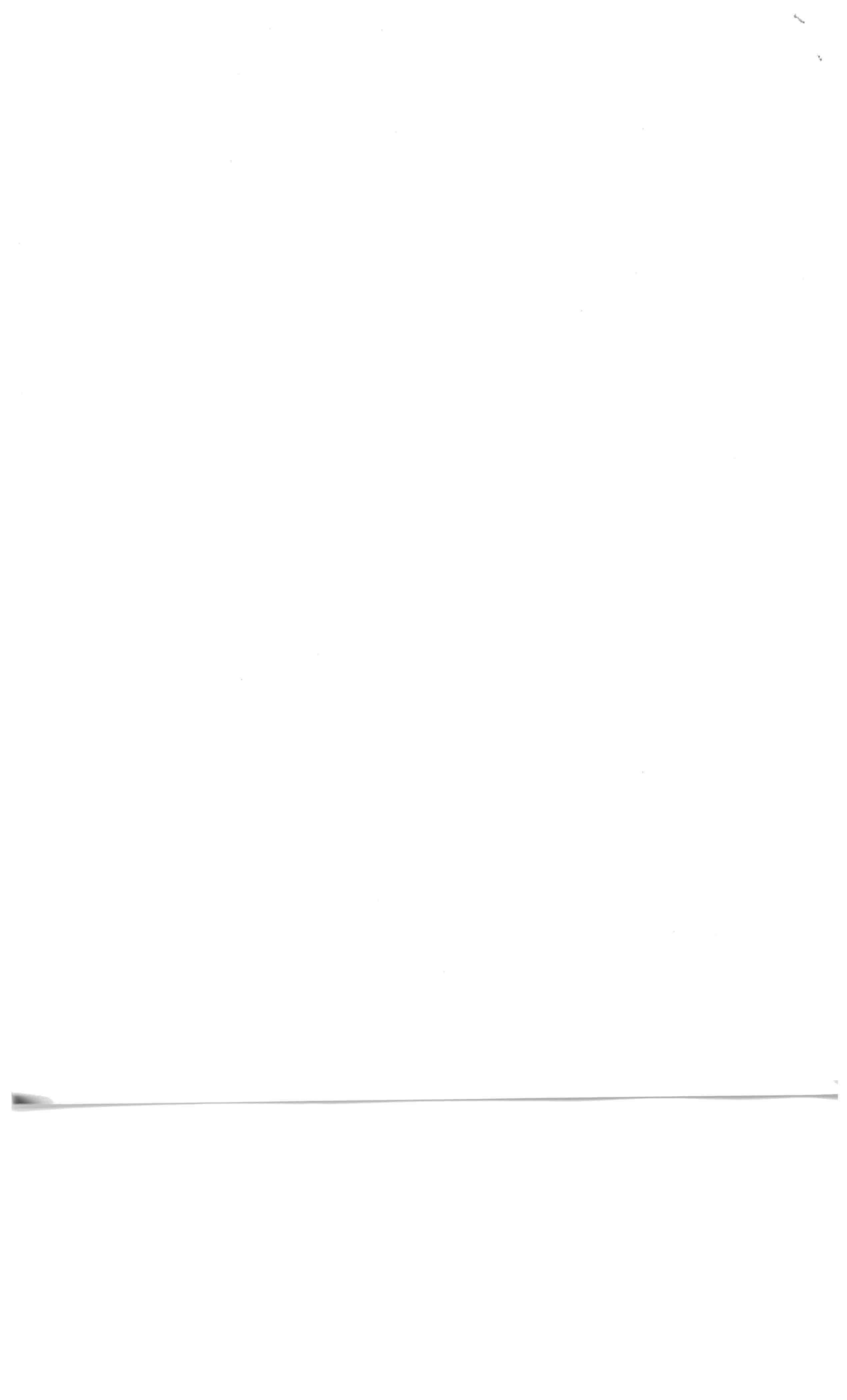
MULL SPAN > WDW. HGT. V	19.125	24.000	26.500	36.000	37.000	48.000	53.125
26.000	608	308	229	95	88	44	33
36.000	608	308	229	91	84	40	30
38.375	608	308	229	91	84	39	30
48.000	608	308	229	91	84	38	29
50.625	608	308	229	91	84	38	28
60.000	608	308	229	91	84	38	28
63.000	608	308	229	91	84	38	28
72.000	608	308	229	91	84	38	28
72.250	608	308	229	91	84	38	28

NOTES:

- * CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (CM-45026) USED HORIZONTALLY.
- * CHART ASSUMES TRANSOM HEIGHT TO BE ONE HALF MULLION SPAN.
- * WINDOW HEIGHTS SHOWN ON "Y" AXIS OF CHART DESIGNATE HEIGHT OF WINDOWS BELOW MULLION AND DO NOT INCLUDE TRANSOM HEIGHT.
- * READ MULLION SPAN AND WINDOW HEIGHT IN INCHES.
- * DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
- * DESIGN LOAD CAPACITIES SHOWN ON THIS CHART DO NOT CONSIDER ANY STRENGTH WHICH MAY BE OBTAINED FROM FRAME MEMBERS OF ADJACENT WINDOWS.
- * $D_{max} = L / 175$
- * INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
250 INTERNATIONAL PARKWAY
SUITE 250
HEATHROW, FLORIDA 32746
PHONE 407 805-0365 / FAX 407 805-0366

Handwritten signature and date: 04-30



STRUCTURAL TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

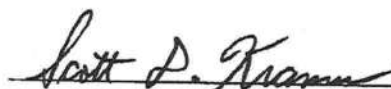
SERIES/MODEL: 650

TYPE: Twin Aluminum Single Hung Window

Title of Test	Results
Overall Design Pressure	35.0 psf
Operating Force	18 lb max.
Air Infiltration	0.29 cfm/ft ²
Water Resistance	5.25 psf
Structural Test Pressure	70.5 psf

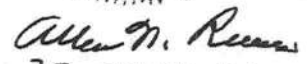
Reference should be made to Report No. 01-36060.02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.


Scott D. Kramer, Technician

SDK:nlb/baw




28 MARCH 2002

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Architectural Testing

STRUCTURAL TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-36060.02
Test Date: 11/04/99
Report Date: 03/26/02
Expiration Date: 11/04/03

Project Summary: Architectural Testing, Inc. (ATI) was contracted to perform tests on a Series/Model 650, twin aluminum single hung window at MI Home Products' test facility in Elizabethville, Pennsylvania. Test specimen description and results are reported herein.

Test Specification The test specimen was evaluated in accordance with the following:

ASTM E 283-91, *Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

ASTM E 330-97, *Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference*

ASTM E 547-96, *Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential*

Test Specimen Description:

Series/Model: 650

Type: Twin Aluminum Single Hung Window

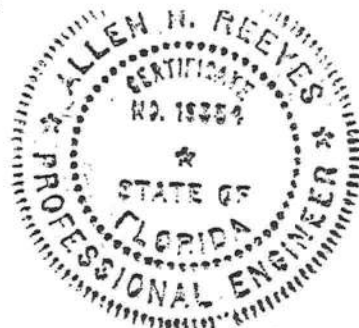
Overall Size: 5' 10-1/4" wide by 5' 0" high

Active Size (2): 2' 8-3/4" wide by 2' 6-1/4" high

Fixed Daylight Opening Size (2): 2' 6- 1/4" wide by 2' 3" high

Screen Size (2): 2' 7-3/4" wide by 2' 4-1/4" high

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



Allen N. Reeves
28 MARCH 2002

Test Specimen Description: (Continued)

Finish: All aluminum was painted white.

Glazing Details: Both the active sash and fixed lites utilized 5/8" thick insulating glass fabricated from two sheets of 3/32" thick clear annealed glass and a desiccant filled metal spacer system. The active sash were channel glazed with a flexible wedge gasket. The fixed lites were interior glazed, back bedded with single sided adhesive foam tape and held-in-place with PVC snap-in glazing beads.

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.270" backed by 0.190" high polypile with center fin	1 Row	Fixed meeting stile
3/8" high vinyl wrapped foam bulb	1 Row	Bottom rail
0.187" backed by 0.250" high polypile with center fin	2 Rows	Stiles
1/4" high polypile dust plug	2 Rows	Ends of bottom rail, top of each stile

Frame Construction: Frame was constructed of extruded aluminum members and all corners were coped, butted, sealed, and fastened with two screws per corner. The fixed meeting rail was attached to the jambs with a plastic clip and two screws per end.

Mullion Construction: The mullion was constructed of an extruded aluminum member. It was fastened to the head and sill with four screws per end. All screw heads were sealed as well as the butt joint at the sill.

Sash Construction: The sash were constructed of extruded aluminum members and all corners were coped, butted, and fastened with one screw per corner.

Screen Construction: The screen was constructed of rolled aluminum members and the corners were keyed. The screen mesh was held-in-place with a flexible spline.

Allen N. Reeves
28 MARCH 2002





Test Specimen Description: (Continued)

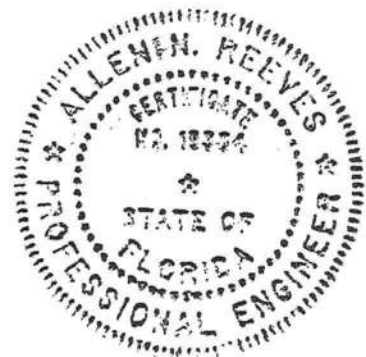
Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Plastic tilt latches	4	Ends of interior meeting rail
Metal pivot bars	4	Ends of the bottom rails
Metal sweep lock	2	Midspan of interior meeting rail
Metal keeper	2	Midspan of fixed meeting rail
Sash stops	4	One per jamb
Block and tackle balance system	4	One per jamb
Spring loaded latch pins	2	6" from ends of screen top rail

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Sloped sill		Sill
1/4" wide by 3/16" high weepslot	4	Ends of exterior vertical sill leg

Installation: The test unit was installed into the 2" x 8" nominal Spruce-Pine-Fir #2 wood test buck utilizing the integral nailing fin and 1" roofing nails. Five per top, bottom, and sides of the nail fin were evenly spaced. The nail fin was bedded in a silicone sealant.



Allen N. Reeves
28 MARCH 2002

Test Results

The results are tabulated as follows:

<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
Air Infiltration per ASTM E 283-91		
@ 0.56 psf (15 mph)	0.15 cfm/ft ²	0.30 cfm/ft ²
@ 1.57 psf (25 mph)	0.29 cfm/ft ²	0.30 cfm/ft ²
Water Resistance per ASTM E 547-96 (with and without screen)		
WTP = 5.25 psf	No leakage	No leakage
Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 33 seconds)		
@ 47.0 psf (exterior)	0.010"	0.24" max.
@ 47.0 psf (interior)	0.015"	0.24" max.

Note: No end measurements were taken on the member measured. The measurements stated above include displacement as well as bending. Only permanent sets were recorded, not deflection measurements. This statement applies to all uniform load tests performed.

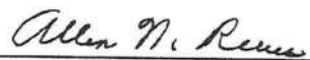
Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 10 seconds)		
@ 70.5 psf (exterior)	0.060"	0.24" max.
@ 70.5 psf (interior)	0.040"	0.24" max.

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.

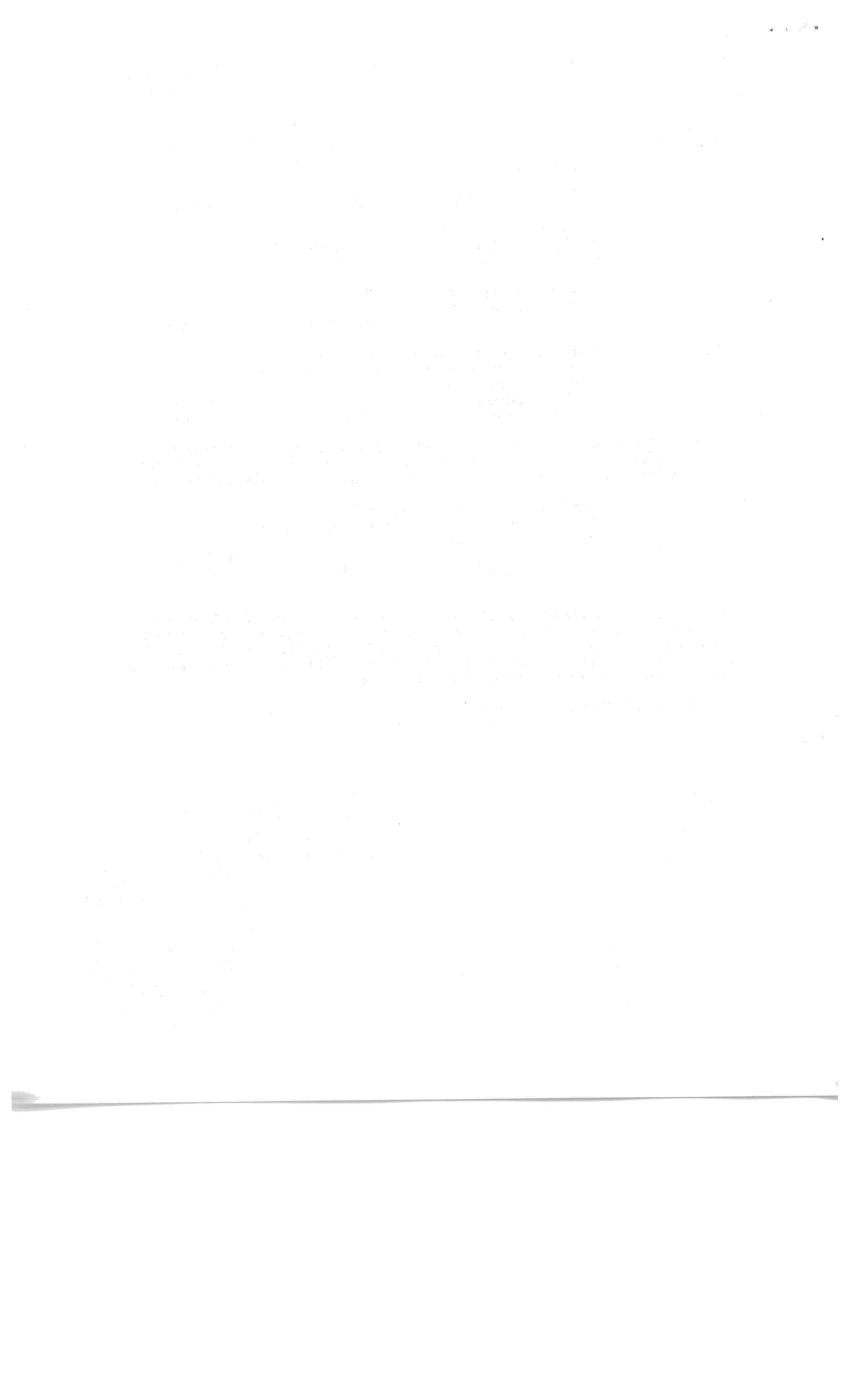
For ARCHITECTURAL TESTING, INC.


Scott D. Kramer
Technician

SDK:nlb/baw
01-36060.02


Allen N. Reeves, P.E.
Director - Engineering Services
28 MARCH 2002





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

Rendered to:

MI HOME PRODUCTS, INC.

**SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window**

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.



Mark A. Hess, Technician

MAH:nlb


1 APRIL 2002



Architectural Testing

AAMA/NWWDA 101/LS.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

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

Allen N. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

Allen H. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

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

	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 meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42"* 0.43"*	0.26" max. 0.26" max.

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

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
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Allen N. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test 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 = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"	0.26" max.
	@ 47.2 psf (negative)	0.46"	0.26" max.

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

Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)	
@ 67.5 psf (positive)	0.05"
@ 70.8 psf (negative)	0.05"

Allen N. Reeves
1 APRIL 2002



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:



Mark A. Hess
Technician

MAH:nlb
01-41134.01



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



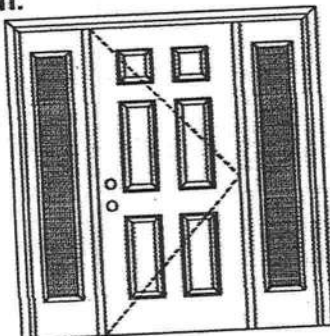
OXO

Opaque Inswing Unit

COP-WL-JH4104-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Single Door with 2 Sidelites
Maximum unit size = 9'0" x 6'8"

Design Pressure

+57.0/-57.0 with maximum sidelite panel width of 1'2"
+45.0/-45.0 with maximum sidelite panel width of 3'0"
limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED on opaque panels, but is required on glazed panels.

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



Test Data Review Certificate #3026447A
and CCF/Test Report Validation Matrix
#3026447A-001 provides additional
information - available from the ITS/WH
website (www.itswh.com), the
Masonite website (www.masonite.com)
or the Masonite technical center.

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0004-02 or
MAD-WL-MA0007-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0004-02.

APPROVED DOOR STYLES:



Flush



Arch Top 3-panel



3-panel



6-panel



New England 4-panel



Eye-brow 4-panel



8-panel



9-panel



15-panel



5-panel



5-panel with scroll



Eye-brow 5-panel



Eye-brow 5-panel with scroll

Johnson
EntrySystems

June 17, 2002

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PREMIUM Collection
Premium Quality Doors

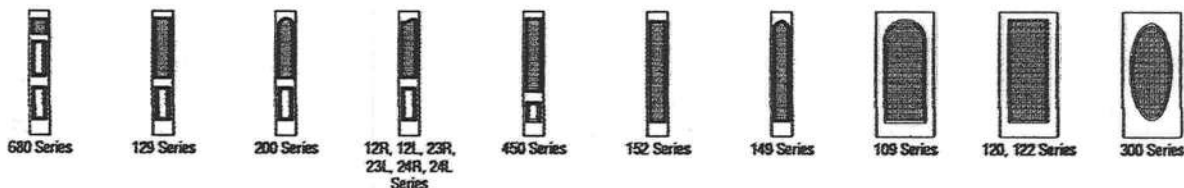


Exclusively from

Masonite
Masonite International Corporation

WOOD-EDGE STEEL DOORS

APPROVED SIDELITE STYLES:



CERTIFIED TEST REPORTS:

NCTL 210-1905-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL-210-1880-7, 9, 10, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Sidelite panels glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

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



Test Data Review Certificate #3025447A and COP/Test Report Validation Matrix #3025447A-001 provides additional information - available from the ITS/WH website (www.itswh.com), the Masonite website (www.masonite.com) or the Masonite technical center.

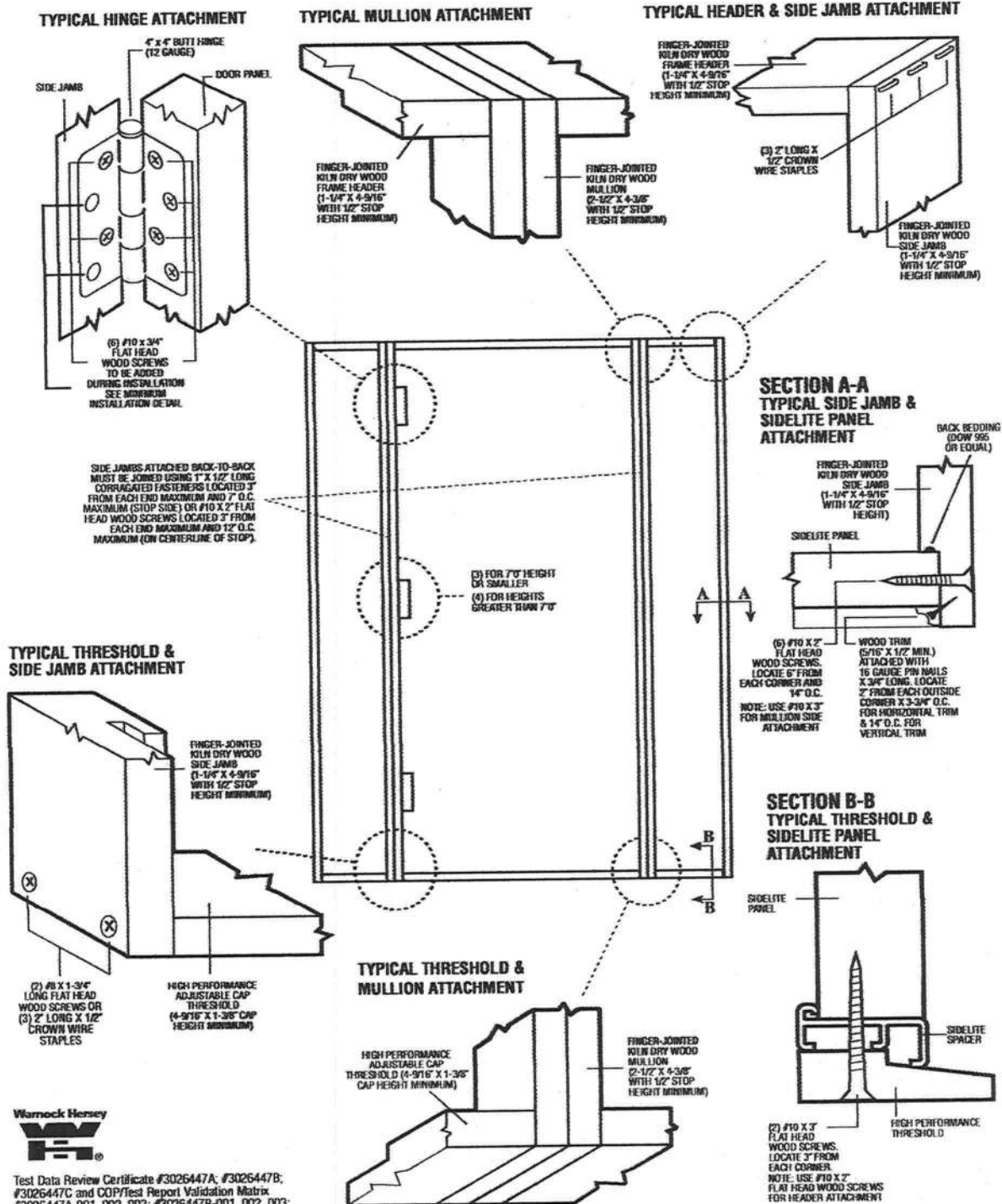
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June 17, 2002

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INSWING UNIT WITH SINGLE DOOR & TWO SIDELITES (BOXED CONSTRUCTION)



Test Data Review Certificate #3026447A; #3026447B; #3026447C and COP/TEST Report Validation Matrix #3026447A-001, 002, 003; #3026447B-001, 002, 003; #3026447C-001, 002, 003 provides additional information - available from the ITS/WH website (www.itswh.com), the Masonite website (www.masonite.com) or the Masonite technical center.

June 17, 2002

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Masonite
Masonite International Corporation

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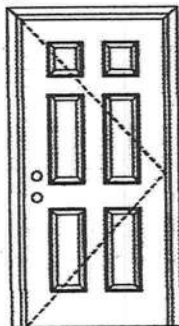
X

Opaque Outswing Unit

COP-WL-JH4121-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itswh.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door

Maximum unit size = 3'0" x 6'8"

Design Pressure

+66.0/-66.0

limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0011-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:



Flush



Arch Top 3-panel



3-panel



6-panel



New England 4-panel



Eyebrow 4-panel



8-panel



9-panel



15-panel



5-panel



5-panel with scroll



Eyebrow 5-panel



Eyebrow 5-panel with scroll

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EntrySystems

June 17, 2002

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Exclusively from

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Masonite International Corporation

X

Opaque Outswing Unit

COP-WL-JH4121-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthaz

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



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itswh.com), the Masonite website (www.masonite.com) or the Masonite technical center.

2

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June 17, 2002

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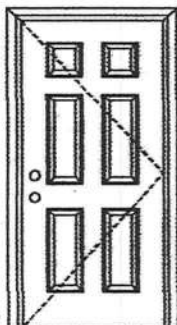
X

Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.itsenrto.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+66.0/-66.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT REQUIRED.

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

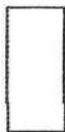
MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0001-02.

APPROVED DOOR STYLES:



Flush



Arch Top 3-panel



3-panel



6-panel



New England 4-panel



Eyebrow 4-panel



8-panel



9-panel



15-panel



5-panel



5-panel with scroll



Eyebrow 5-panel



Eyebrow 5-panel with scroll

Johnson
EntrySystems

June 17, 2002
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Exclusively from

Masonite International Corporation

X

Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balth

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



Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etscmko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

2

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EntrySystems

June 17, 2002

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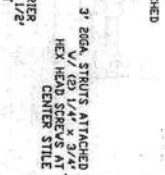
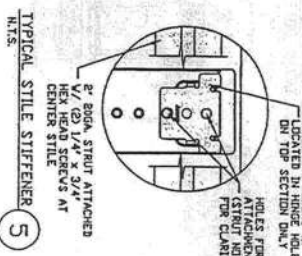
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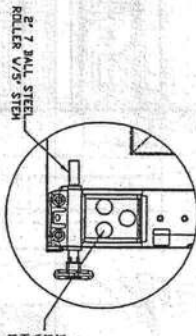
16 GA. GALV. RESIDENTIAL
TOP ROLLER BRACKET
ATTACHED V/32 1/4" X
3/4" HEX HEAD SCREWS
PER BRACKET

2" 26GA. STRUT ATTACHED
V/32 1/4" X 3/4"
HEX HEAD SCREWS AT
EACH END STILE

3"

N.T.S.

M.T.S.



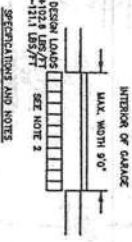
4



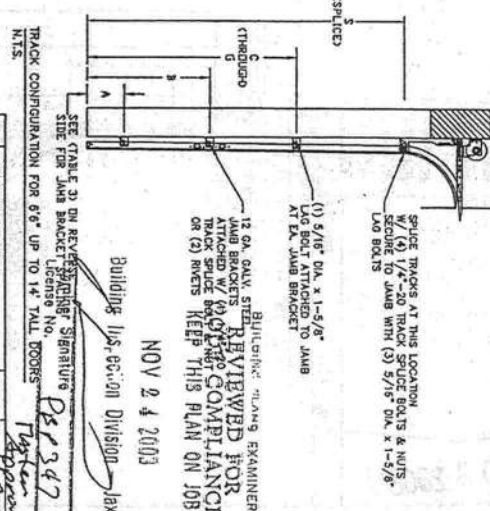
TESTED FOR 120 MPH PEAK GUST; EXPOSURE B; 30' OR LESS MEAN ROOF HEIGHT

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M.T.S.



SECTION B-B

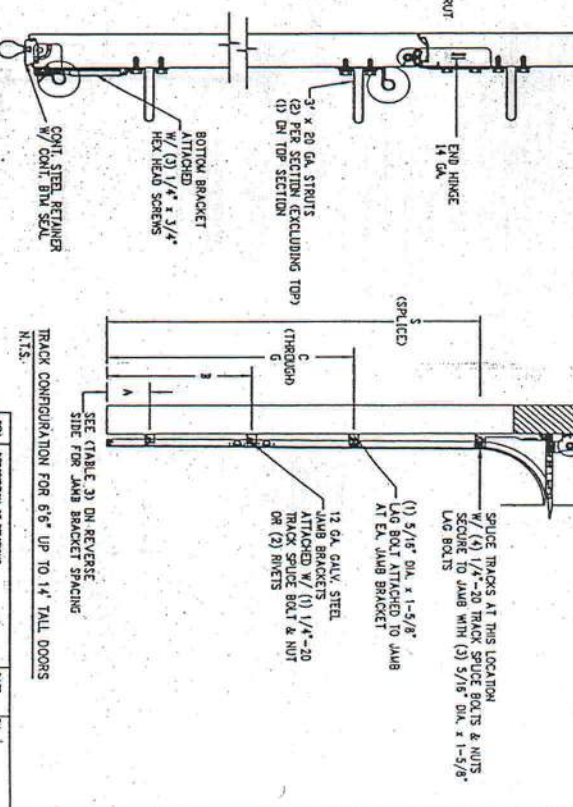
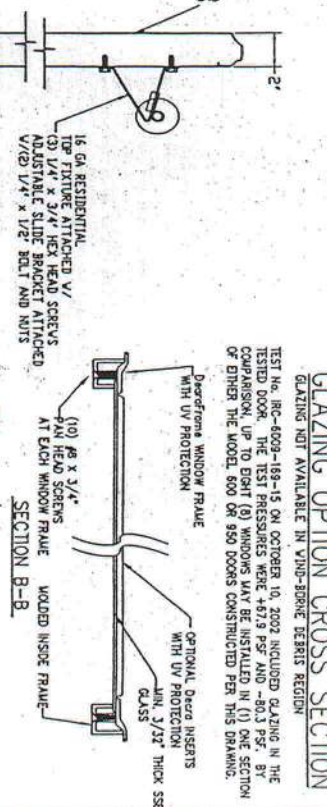
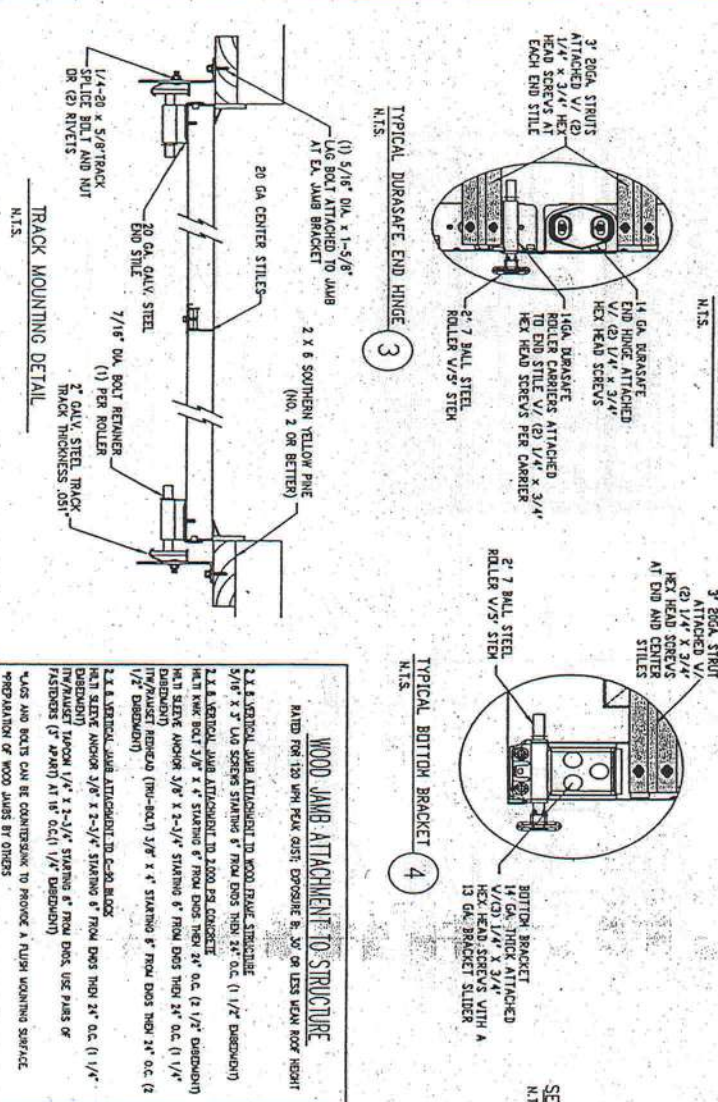
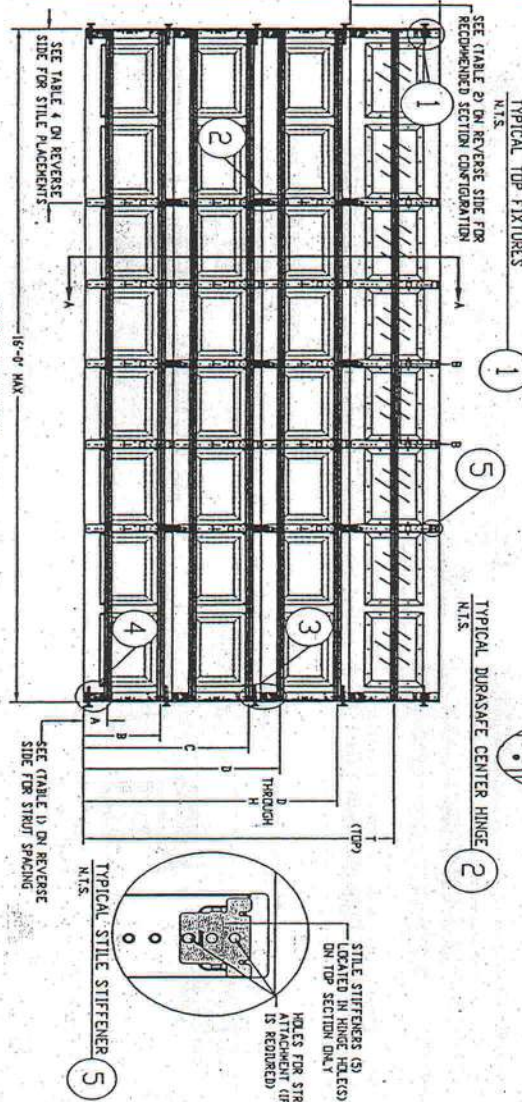


NOV 2 2003

165 CARRIAGE COURT VINSTON-SALEM, NC. 27105
MODEL #600 STRATFORD w/DuraSafe

REV	DESCRIPTION OF REVISIONS	DATE	BY
	MAX. SIZE 9' x 14' DESIGN LOADS +32.8 PSF -28.9 PSF TEST LOADS +34.2 PSF -40.4 PSF		
			
Amarr CANNON, NC			
US CUSTOMER CODE: 450000-0001, 27105 MODEL #800 STRATFORD W/ DURASITE MODEL 950 HERITAGE W/ DURASITE Short Panel, Long Panel, and Flush Panel SZ DRAWN BY DJ DATE 05/14/03 8 CHECKED BY JAE DATE 05/14/03 DRAWING NUMBER IRC-6009-120-15 DRAWER: THOMAS L. STUBBINS P.E. Lic. No. 0046379 SHEET 1 OF 1			
JUN 17 2003			

JUN 17 2003



REV	DESCRIPTION OF REVISIONS	DATE	BY
1	MAX. SIZE 18 x 14		
2	DESIGN LOADS +21.8 PSF -24.8 PSF		
3	TEST LOADS +32.7 PSF -37.2 PSF		

AMARR BUILDING PRODUCTS

165 CARRIDGE COURT VINNISTON-DAVE, NC 27105

MODEL #800 STRATFORD w/ Durasafe

MODEL #950 HERITAGE w/ Durasafe

Short Panel, Jamb, and Flush Panel

PRINTING NUMBER

8 CHECKED BY JAE DATE 9/15/00 HC-6016-120-15

DRAWER THOUS L. STUBBINS P.E. (C. NO. 00403) SHEET 1 OF 1

DOOR HEIGHT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
6'6"	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
7'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
8'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
9'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
10'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
11'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
12'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
13'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"
14'	5 1/2"	18 1/4"	25 1/2"	32 1/2"	39 1/2"	46 1/2"	53 1/2"	60 1/4"	67 1/2"	74 1/2"	81 1/4"	88 1/2"	95 1/4"	102 1/4"	109 1/4"	116 1/4"	123 1/4"	130 1/4"	137 1/4"	144 1/4"	151 1/2"	158 1/2"

Section Width	Panel Type	Max Design Loads Allowed
16' 2"	Long	23.9
16' 4"	Long	23.7
16' 6"	Long	23.5
16' 8"	Long	23.3
16' 10"	Long	23.1
17' 0"	Long	22.9
17' 2"	Long	22.7
17' 4"	Long	22.5
17' 6"	Long	22.3
17' 8"	Long	22.1
17' 10"	Long	21.9
18' 0"	Long	21.7
18' 2"	Long	21.5
18' 4"	Long	21.3
18' 6"	Long	21.1
18' 8"	Long	20.9
18' 10"	Long	20.7
19' 0"	Long	20.5
19' 2"	Long	20.3
19' 4"	Long	20.1
19' 6"	Long	19.9
19' 8"	Long	19.7
19' 10"	Long	19.5
20' 0"	Long	19.3
20' 2"	Long	19.1
20' 4"	Long	18.9
20' 6"	Long	18.7
20' 8"	Long	18.5
20' 10"	Long	18.3
21' 0"	Long	18.1
21' 2"	Long	17.9
21' 4"	Long	17.7
21' 6"	Long	17.5
21' 8"	Long	17.3
21' 10"	Long	17.1
22' 0"	Long	16.9
22' 2"	Long	16.7
22' 4"	Long	16.5
22' 6"	Long	16.3
22' 8"	Long	16.1
22' 10"	Long	15.9
23' 0"	Long	15.7
23' 2"	Long	15.5
23' 4"	Long	15.3
23' 6"	Long	15.1
23' 8"	Long	14.9
23' 10"	Long	14.7
24' 0"	Long	14.5
24' 2"	Long	14.3
24' 4"	Long	14.1
24' 6"	Long	13.9
24' 8"	Long	13.7
24' 10"	Long	13.5
25' 0"	Long	13.3
25' 2"	Long	13.1
25' 4"	Long	12.9
25' 6"	Long	12.7
25' 8"	Long	12.5
25' 10"	Long	12.3
26' 0"	Long	12.1
26' 2"	Long	11.9
26' 4"	Long	11.7
26' 6"	Long	11.5
26' 8"	Long	11.3
26' 10"	Long	11.1
27' 0"	Long	10.9
27' 2"	Long	10.7
27' 4"	Long	10.5
27' 6"	Long	10.3
27' 8"	Long	10.1
27' 10"	Long	9.9
28' 0"	Long	9.7
28' 2"	Long	9.5
28' 4"	Long	9.3
28' 6"	Long	9.1
28' 8"	Long	8.9
28' 10"	Long	8.7
29' 0"	Long	8.5
29' 2"	Long	8.3
29' 4"	Long	8.1
29' 6"	Long	7.9
29' 8"	Long	7.7
29' 10"	Long	7.5
30' 0"	Long	7.3
30' 2"	Long	7.1
30' 4"	Long	6.9
30' 6"	Long	6.7
30' 8"	Long	6.5
30' 10"	Long	6.3
31' 0"	Long	6.1
31' 2"	Long	5.9
31' 4"	Long	5.7
31' 6"	Long	5.5
31' 8"	Long	5.3
31' 10"	Long	5.1
32' 0"	Long	4.9
32' 2"	Long	4.7
32' 4"	Long	4.5
32' 6"	Long	4.3
32' 8"	Long	4.1
32' 10"	Long	3.9
33' 0"	Long	3.7
33' 2"	Long	3.5
33' 4"	Long	3.3
33' 6"	Long	3.1
33' 8"	Long	2.9
33' 10"	Long	2.7
34' 0"	Long	2.5
34' 2"	Long	2.3
34' 4"	Long	2.1
34' 6"	Long	1.9
34' 8"	Long	1.7
34' 10"	Long	1.5
35' 0"	Long	1.3
35' 2"	Long	1.1
35' 4"	Long	0.9
35' 6"	Long	0.7
35' 8"	Long	0.5
35' 10"	Long	0.3
36' 0"	Long	0.1

DOOR HEIGHT	B1m	#2	#3	#4	#5	#6	#7	#8
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	21"	21"	21"
13' 0"	21"	21"	21"	21"	21"	21"	21"	21"
12' 6"	21"	21"	21"	21"	21"	21"	21"	21"
12' 0"	21"	21"	21"	21"	21"	21"	21"	21"
11' 6"	21"	21"	21"	21"	21"	21"	21"	21"
11' 0"	21"	21"	21"	21"	21"	21"	21"	21"
10' 6"	21"	21"	21"	21"	21"	21"	21"	21"
10' 0"	21"	21"	21"	21"	21"	21"	21"	21"
9' 6"	21"	21"	21"	21"	21"	21"	21"	21"
9' 0"	21"	21"	21"	21"	21"	21"	21"	21"
8' 6"	21"	21"	21"	21"	21"	21"	21"	21"
8' 0"	21"	21"	21"	21"	21"	21"	21"	21"
7' 6"	21"	21"	21"	21"	21"	21"	21"	21"
7' 0"	21"	21"	21"	21"	21"	21"	21"	21"
6' 6"	21"	21"	21"	21"	21"	21"	21"	21"

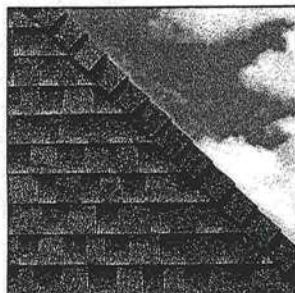
Section Width	Panel Type	1st (in)	2nd (in)	3rd (in)	4th (in)	5th (in)
16' 2"	Long	50.272	73.636	97.000	120.364	143.728
16' 4"	Long	51.168	74.032	97.000	119.917	142.834
16' 6"	Long	52.064	74.428	97.000	119.470	141.940
16' 8"	Long	52.960	74.824	97.000	119.023	141.046
16' 10"	Long	53.856	75.220	97.000	118.576	140.152
17' 0"	Long	54.752	75.616	97.000	118.129	139.258
17' 2"	Long	55.648	76.012	97.000	117.682	138.364
17' 4"	Long	56.544	76.408	97.000	117.235	137.470
17' 6"	Long	57.440	76.804	97.000	116.788	136.576
17' 8"	Long	58.336	77.200	97.000	116.341	135.682
17' 10"	Long	59.232	77.596	97.000	115.894	134.788
18' 0"	Long	60.128	77.992	97.000	115.447	133.894
18' 2"	Long	61.024	78.388	97.000	115.000	133.000
18' 4"	Long	61.920	78.784	97.000	114.553	132.106
18' 6"	Long	62.816	79.180	97.000	114.106	131.212
18' 8"	Long	63.712	79.576	97.000	113.659	130.318
18' 10"	Long	64.608	79.972	97.000	113.212	129.424
19' 0"	Long	65.504	80.368	97.000	112.765	128.530
19' 2"	Long	66.400	80.764	97.000	112.318	127.636
19' 4"	Long	67.296	81.160	97.000	111.871	126.742
19' 6"	Long	68.192	81.556	97.000	111.424	125.848
19' 8"	Long	69.088	81.952	97.000	110.977	124.954
19' 10"	Long	69.984	82.348	97.000	110.530	124.060
20' 0"	Long	70.880	82.744	97.000	110.083	123.166
20' 2"	Long	71.776	83.140	97.000	109.636	122.272
20' 4"	Long	72.672	83.536	97.000	109.189	121.378
20' 6"	Long	73.568	83.932	97.000	108.742	120.484
20' 8"	Long	74.464	84.328	97.000	108.295	119.590
20' 10"	Long	75.360	84.724	97.000	107.848	118.696
21' 0"	Long	76.256	85.120	97.000	107.401	117.802
21' 2"	Long	77.152	85.516	97.000	106.954	116.908
21' 4"	Long	78.048	85.912	97.000	106.507	116.014
21' 6"	Long	78.944	86.308	97.000	106.060	115.120
21' 8"	Long	79.840	86.704	97.000	105.613	114.226
21' 10"	Long	80.736	87.100	97.000	105.166	113.332
22' 0"	Long	81.632	87.496	97.000	104.719	112.438
22' 2"	Long	82.528	87.892	97.000	104.272	111.544
22' 4"	Long	83.424	88.288	97.000	103.825	110.650
22' 6"	Long	84.320	88.684	97.000	103.378	109.756
22' 8"	Long	85.216	89.080	97.000	102.931	108.862
22' 10"	Long	86.112	89.476	97.000	102.484	107.968
23' 0"	Long	87.008	89.872	97.000	102.037	107.074
23' 2"	Long	87.904	90.268	97.000	101.590	106.180
23' 4"	Long	88.800	90.664	97.000	101.143	105.286
23' 6"	Long	89.696	91.060	97.000	100.696	104.392
23' 8"	Long	90.592	91.456	97.000	100.249	103.498
23' 10"	Long	91.488	91.852	97.000	99.802	102.604
24' 0"	Long	92.384	92.248	97.000	99.355	101.710
24' 2"	Long	93.280	92.644	97.000	98.908	100.816
24' 4"	Long	94.176	93.040	97.000	98.461	99.922
24' 6"	Long	95.072	93.436	97.000	98.014	99.028
24' 8"	Long	95.968	93.832	97.000	97.567	98.134
24' 10"	Long	96.864	94.228	97.000	97.120	97.240
25' 0"	Long	97.760	94.624	97.000	96.673	96.346
25' 2"	Long	98.656	95.020	97.000	96.226	95.452
25' 4"	Long	99.552	95.416	97.000	95.779	94.558
25' 6"	Long	100.448	95.812	97.000	95.332	93.664
25' 8"	Long	101.344	96.208	97.000	94.885	92.770
25' 10"	Long	102.240	96.604	97.000	94.438	91.876
26' 0"	Long	103.136	97.000	97.000	93.991	90



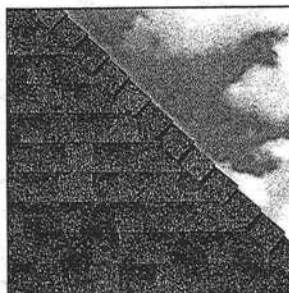


ELK

ROOFING PRODUCTS SPECIFICATIONS - TUSCALOOSA, AL



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE™

**Prestique Plus *High Definition*
and Prestique Gallery Collection™**

Product size.....13 1/4" x 39 3/4"
Exposure.....5 1/2"
Pieces/Bundle.....16
Bundles/Square.....4/98.5 sq.ft.
Squares/Pallet.....11

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*.

Raised Profile

Product size.....13 1/4" x 38"
Exposure.....5 1/2"
Pieces/Bundle.....22
Bundles/Square.....3/100 sq.ft.
Squares/Pallet.....16

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*.

Prestique I *High Definition*

Product size.....13 1/4" x 39 3/4"
Exposure.....5 1/2"
Pieces/Bundle.....16
Bundles/Square.....4/98.5 sq.ft.
Squares/Pallet.....14

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*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™

Size: 12" x 12"
Exposure: 6 1/2"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Prestique *High Definition*

Product size.....13 1/4" x 38"
Exposure.....5 1/2"
Pieces/Bundle.....22
Bundles/Square.....3/100 sq.ft.
Squares/Pallet.....16

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*.

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakeswood, 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

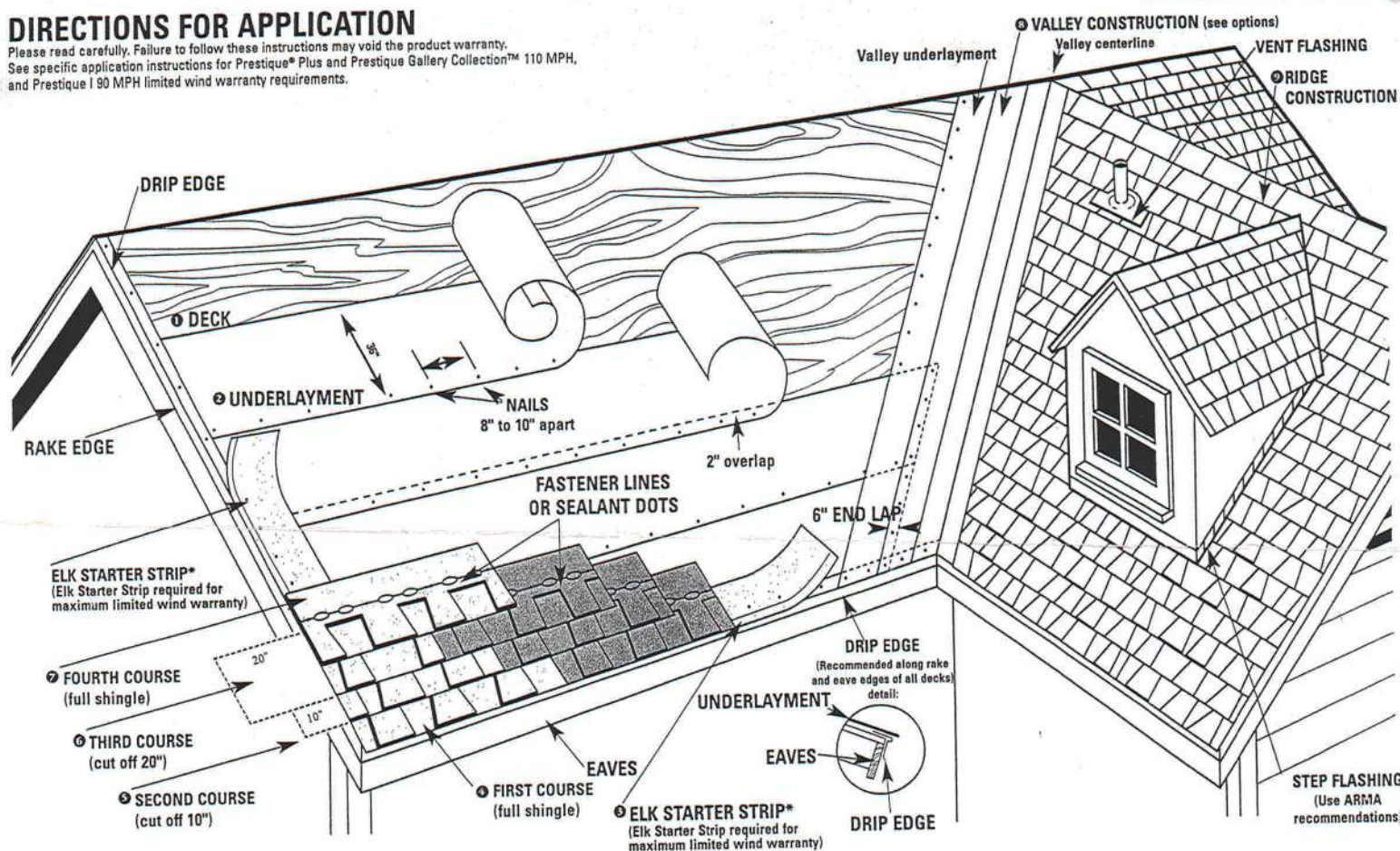
PLANT LOCATION:
800.945.5545

ELK
www.elkcorp.com

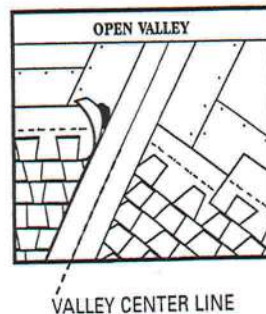
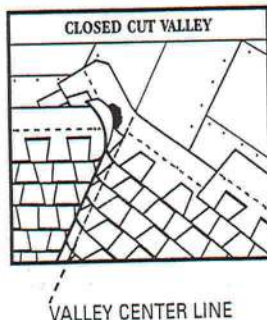
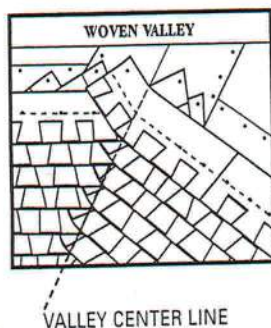
SSOOT 01/02

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.



③ 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.

① 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.

② 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.

③ 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.

④ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof.

⑤ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

⑥ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

⑦ 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.

⑧ 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.

⑨ 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 re-roofs. 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.

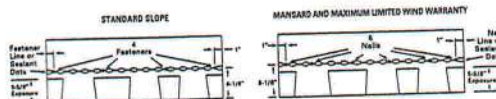
MANSARD APPLICATIONS

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

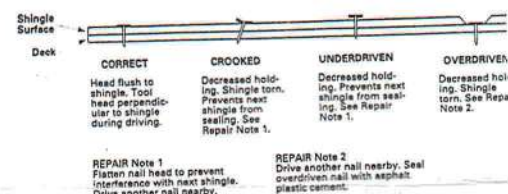
• For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.

• 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.

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ELK
www.elkcorr

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: ISRH487-Z0221133405

Truss Fabricator: Anderson Truss Company
Job Identification: 5-448F-STEPHEN CRAWFORD - SERVICE - Floor
Truss Count: 3
Model Code: Florida Building Code
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.04.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - 55.0 PSF @ 1.00 Duration
Wind - 110 MPH ASCE 7-98 -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
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

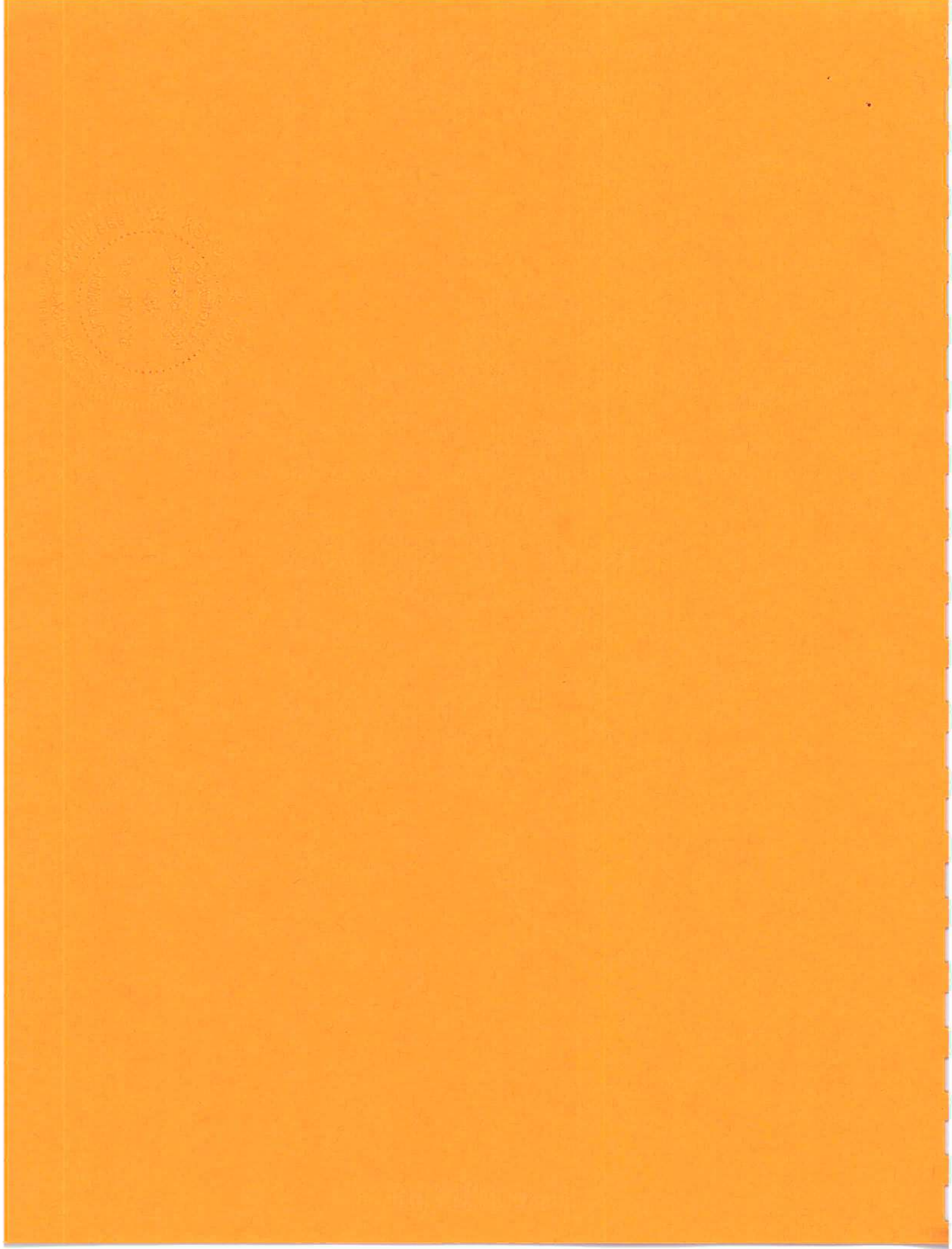
No Standard Details

#	Ref	Description	Drawing#	Date
1	56423--FG2		05294002	10/21/05
2	56424--FG1		05294003	10/21/05
3	56425--FG3		05294004	10/21/05

Seal Date: 10/21/2005

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844







ENVIRONMENT. The TrimJoist design allows for the utilization of lumber from plantation-grown trees, thus sparing the "old-growth" forests that are necessary to produce all traditional wide-board joists. In addition, our engineered strength allows for longer spans and greater on-center spacing. This not only reduces construction costs, but can reduce the board footage of wood fiber required by up to 12% over traditional joists.

By design, approximately 40% of the TrimJoist material content is from recycled sources. In addition, our manufacturing process recovers over 97% of its generated waste.

INNOVATION. The TrimJoist is produced in stock lengths that range from 4' to 30', in standard 2-foot increments. Because each joist has 12-inches of trim at each end, a continuous range of spans is possible. Complex angled walls? No problem for the TrimJoist.

The open web design of the TrimJoist allows for the utilization of that valuable floor cavity space. It's now practical for duct work, wiring, and plumbing to be contained within this cavity. This eliminates unsightly and expensive furring. Free access to the floor cavity requires no cutting or notching that can severely impair the structural integrity of other joists products of inferior design.

SERVICE. Put simply, the TrimJoist is the superior product for floor joist applications. To aid architects, building designers, and contractors we offer toll-free access to a TrimJoist representative. By simply calling (800) 844-8281 you can gain immediate assistance with your question or framing issue.

SILENCE. The TrimJoist provides a full 3½" wide surface for the proper nailing and gluing of subfloor materials. By providing such a wide surface, the TrimJoist allows the builder to use subfloor framing tolerances that will prevent squeaks. The wide surface also allows for the application of sufficient glue to make the TrimJoist and the subfloor truly act as a unified system.

QUALITY. The TrimJoist addresses product consistency and product quality from three key perspectives:

Design. The TrimJoist was initially designed using the most capable structural engineers and computer software systems available from both inside and outside the forest products industry. This includes the PPSA system from Purdue University as well as Rasna finite element software from Parametric Technology.

Material Control. All raw material components are structurally rated by various independent agencies such as the Truss Plate Institute (TPI), Southern Pine Inspection Bureau (SPIB), American Plywood Association (APA), American Society for Testing and Materials (ASTM), and of course ANSI. In fact, all TrimJoist floor trusses now conform to the new ANSI/TPI-1995 standard. In addition, all lumber components of the TrimJoist are subject to a strict "cull" process where questionable pieces are discarded before entering into the production process.

Production Testing. In addition to the rigorous testing performed on prototype units during the development phase of the TrimJoist. All production runs are subject to periodic, random tests. These tests are conducted to the standards of the Truss Plate Institute (TPI) Test Truss Specification. No other production floor truss is subjected to such ongoing scrutiny and improvement.



Pictures by Photography & Moore, Sulligent, Alabama

WARRANTY TrimJoist Corporation warrants its products to be free from defects in material and workmanship as generally accepted in the industry. Said products are further warranted as to adequacy of design, provided products are used in strict accordance with TrimJoist Corporation's then currently published design limits and are installed in a workmanlike manner. Said warranties do not apply in the event products are altered in any way other than intended by design. TrimJoist Corporation's obligations under this warranty shall be limited to the replacement or repair of those products demonstrated to be defective. Such remedy shall constitute Customer's sole and exclusive remedy and customer, through the use of this product, agrees that no other remedy (including, but not limited to claims for INCIDENTAL, CONSEQUENTIAL or SPECIAL DAMAGES, OR ANY CAUSE, LOSS, ACTION, CLAIM OR DAMAGE, INCLUDING LOSS OF TIME WHATSOEVER, OR INJURY TO PERSONS OR PROPERTY OR ANY OTHER CONSEQUENTIAL DAMAGE OR INCIDENTAL OR ECONOMIC LOSS) shall be available to customer whether said claims be asserted on the basis of warranty, negligence, strict liability, or otherwise. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE. ALL OF SUCH OTHER WARRANTIES BEING HEREBY EXPRESSLY EXCLUDED.



**Third Party
Quality
Assurance by
PFS**

The *uniform load* span charts below indicate the maximum design spans (including a 1½" minimum bearing at each end) for each family of *TrimJoist* floor joists. Each chart is divided into columns which represent common design loadings and rows which show typical spacings. Most residential designs require a minimum of 55 psf loading. Floors used for heavy traffic and/or heavy floor coverings (e.g. Tile) should be designed at 60 psf minimum. All loads are broken down into *Live*, *Top-dead* and *Bottom-dead* components. For example, the 55 psf column is really 40 psf live plus 10 psf top-dead plus 5 psf bottom-dead for a total of 55 psf. Dead loads are the weight of construction materials and are always present for the whole life of the structure. Live loads, on the other hand, are transient and are never constant over the life of the structure. Select the appropriate column based on the *dead* loads of your construction materials. These charts are for *uniformly loaded, clear span, simply supported* joists. For special applications requiring concentrated loads, asymmetric continuous loads, cantilevers, or special bearing conditions please consult a *TrimJoist* representative or authorized dealer. The TPDS computer program can be used to analyze almost any loading and/or bearing condition.

11 ¼" Deep	Spacing	Loading	55 PSF (40/10/5)	60 PSF (40/10/10)
		12	24' - 0" L/497	24' - 0" L/497
		16	22' - 0" L/485	22' - 0" L/485
		19.2	21' - 2" L/453	21' - 2" L/453
14" Deep	Spacing	12	26' - 0" L/633	26' - 0" L/633
		16	26' - 0" L/475	26' - 0" L/475
		19.2	24' - 10" L/453	24' - 10" L/453
		24	23' - 0" L/452	22' - 0" L/517

16" Deep	Spacing	Loading	55 PSF (40/10/5)	60 PSF (40/10/10)
		12	28' - 0" L/676	28' - 0" L/676
		16	28' - 0" L/507	28' - 0" L/507
		19.2	27' - 4" L/453	27' - 4" L/453
18" Deep	Spacing	12	30' - 0" L/710	30' - 0" L/710
		16	30' - 0" L/532	30' - 0" L/532
		19.2	29' - 10" L/451	29' - 10" L/451
		24	27' - 7" L/468	27' - 3" L/473

Notes on Span Charts:

- 1. Spans are based on uniformly loaded joists and include allowances for repetitive use members.
- 2. Live loads of 40 psf are assumed. Additional dead loads should be chosen based on construction materials.
- 3. All *TrimJoist* floor joists have a TOP orientation and should not be installed upside-down.
- 4. Stiffness factors (L/xxx) assume a minimum ¾-inch span-rated subfloor that has been both *glued and nailed*.
- 5. Limit total reaction (per end) to that indicated in the Maximum Reaction Table at the right.
- 6. Do not apply center supports, cantilevers, concentrated, or asymmetrical continuous loads without first consulting a *TrimJoist* representative.

Maximum Reaction Table

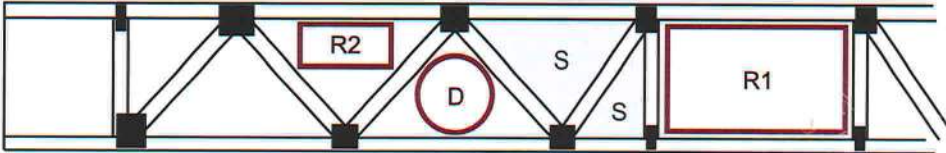
Width	1½	3½	5½
Max	3000	3500	4000

Width is the width of the loaded wall above, or the bearing wall width whichever is less.

A Note About Floor Stiffness: Floor performance is greatly influenced by joist stiffness. Experience has shown that a floor system designed to minimum code acceptance may not meet the expectations of discerning owners. *TrimJoist* Corporation strongly recommends that floor spans be limited to those indicated in the charts above. The numbers in these charts far exceed minimum code requirements and are based on both *gluing and nailing* the subfloor. In cases where the subfloor is nailed only, spans remain the same, but the stiffness must be reduced by 20%. For optimal performance use screws in lieu of nails.

Opening Sizes

	J12	J14	J16	J18
H	11¼"	14"	16"	18"
D	5"	8"	9"	10"
R1	8x16	10x24	12x24	14x24
R2	4x9	4x10 6x6	4x12 6x8	4x14 6x10 8x8



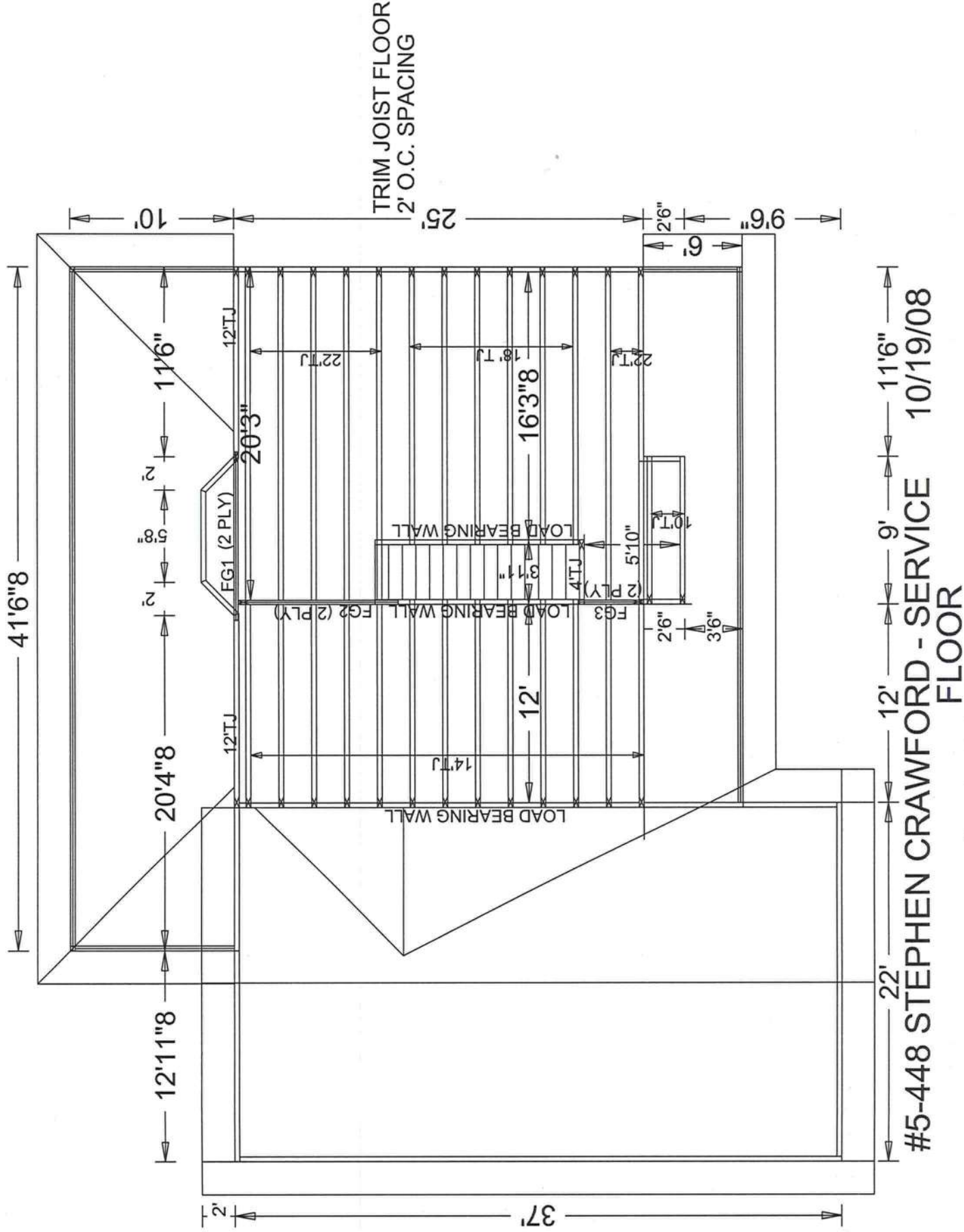
- 1. All sizes given are in inches and denote maximum expected clearance.
- 2. Rectangular opening (R1) is provided at centerline of stock length.
- 3. Only opening D available in 4' stock length (one opening only).
- 4. Only opening R1 available in 6' and 8' stock length.
- 5. Openings R2 & D not applicable in shaded areas (s).

dmiller
May 1, 2003

Good Framing Practice...

- DO** Install *TrimJoists* right side up. TOP is stamped on the top of each joist.
- DO** Make sure that each *TrimJoist* bears on the bottom flange beneath the *TrimEnd* section or beneath the first metal plate if the *TrimEnd* section has been removed.
- DO** Use strongback stiffeners. Although not required for structural performance, strongback adds additional resistance to impact loadings.
- DO** Provide appropriate bearing width at each end of the *TrimJoist*. The required width can be found in the Maximum Reaction Table above. Use vertical web stiffeners where reactions exceed these values.
- DO** Use *TrimJoist* approved hangers for flush-mounted bearing conditions. These may be purchased from your local *TrimJoist* dealer.
- DO** Use an appropriately rated sub-floor that has been both glued and nailed/screwed to the top flange of the *TrimJoist*.
- DO** Consult your *TrimJoist* dealer or representative about special loading or bearing conditions not addressed in this Application Guide.

- DO NOT** cut any part of the *TrimJoist* except for the *TrimEnd* sections which are specifically designed to be field cut.
- DO NOT** remove, cut or alter any metal plate connector on the *TrimJoist* without first consulting a factory engineer.
- DO NOT** install the *TrimJoist* upside down without first consulting a *TrimJoist* factory engineer.
- DO NOT** use a *TrimJoist* as a header or beam except as may be instructed by a *TrimJoist* engineer.
- DO NOT** allow the *TrimJoist* to be supported by the top flange. All support must be from under the bottom flange.
- DO NOT** depend on "toe nailing" to provide adequate support capacity for flush-mounted framing. Consult your local *TrimJoist* dealer or a *TrimJoist* factory engineer for proper hanger selection.
- DO NOT** apply special support or load conditions without first consulting a *TrimJoist* representative.



Scale: 1/8" = 1'

JOB NO: 5-448F

PAGE NO: 1 OF 1



Top chord 2x6 SP #2
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3 :W2, W8 2x4 SP #2 Dense:

(J) hanger connection not found in inventory file for this condition.
Provide connection.

Girder supports: 12-7-0 span to TC one face and 20-3-0 span to TC
opposite face.

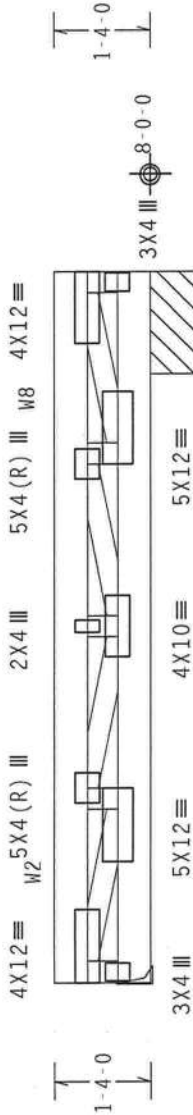
Truss must be installed as shown with top chord up.

The TC of this truss shall be braced with attached spans at 24" OC in
lieu of structural sheathing.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common (0.148"x3",_min.)_nails)
Top Chord: 1 Row @ 3.50" O.C.
Bot Chord: 1 Row @12.00" O.C.
Webs : 1 Row @ 4" O.C.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.



9-9-0 Over 2 Supports
R=4348 (J)
R=3069 PLF W=1-5-0

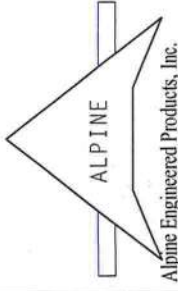
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

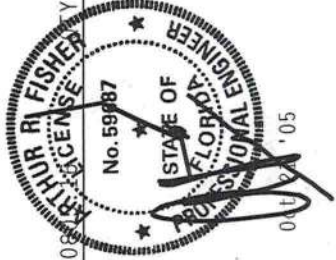
Scale = .375" /Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 D-000F010 DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL CHORDS AND WEBS 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 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 (N/H/S/K) ASTM A653 GRADE 40/60 (N, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-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.



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



TC LL	40.0 PSF	FL / - / 3 / - / - / R / -	REF	R487--	56423
TC DL	10.0 PSF		DATE	10/21/05	
BC DL	5.0 PSF		DRW	HCUSR487	05294002
BC LL	0.0 PSF		HC-ENG	JB/AF	
TOT.LD.	55.0 PSF		SEQN	13701	
DUR.FAC.	1.00				
SPACING	24.0"		JREF	1SRH487_Z02	

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3 :W2, W8 2x4 SP #2 Dense:

SPECIAL LOADS

-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 693 PLF at 0.00 to 693 PLF at 10.25
BC - From 20 PLF at 0.00 to 20 PLF at 10.25
BC - 4348 LB Conc. Load at 1.08

110 mph wind, 9.33 ft mean hgt, ASCE 7-98, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind
BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor
for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

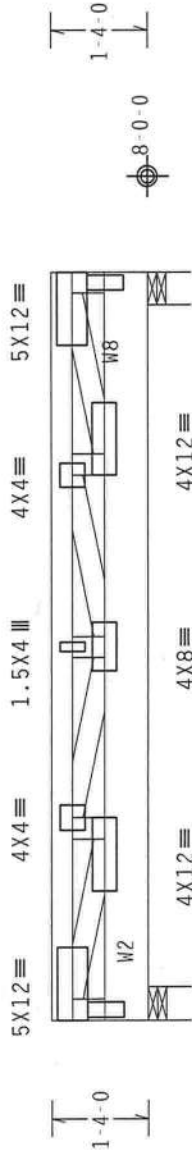
Nailing Schedule: (10d Common (0.148"x3",_min.)_nails)
Top Chord: 1 Row @ 5.50" o.c.
Bot Chord: 1 Row @ 4.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Max JT VERT DEFL: LL: 0.12" DL: 0.16" recommended camber 1/4"

Truss must be installed as shown with top chord up.

The TC of this truss shall be braced with attached spans at 24" OC in
lieu of structural sheathing.

(**) Plate relocated as shown.



2.5X6(**) III

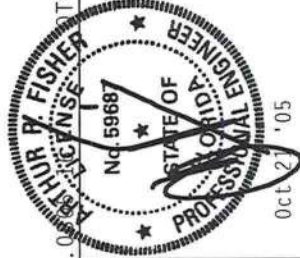
2.5X6(**) III

← 10'-3" Over 2 Supports →
R=7552 U=2579 W=5.45"
R=4106 U=1402 W=5.45"

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.04.00 Scale =.375"/Ft.

PLT TYP. Wave



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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 AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W.17/5/5) ASTM A653 GRADE 40/80 (W. 8/11-5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-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.



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

TC LL	20.0	PSF	FL/-/3/-/-/R/-	Scale =.375"/Ft.
TC DL	10.0	PSF	REF R487--	56424
BC DL	10.0	PSF	DATE	10/21/05
BC LL	0.0	PSF	DRW	HCUSR487 05294003
TOT.LD.	40.0	PSF	HC-ENG	JB/AF
DUR.FAC.	1.25		SEQN-	46724
SPACING	24.0"		JREF-	1SRH487_Z02

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

Girder supports: 12-7-0 span to TC one face and 20-3-0 span to TC opposite face.

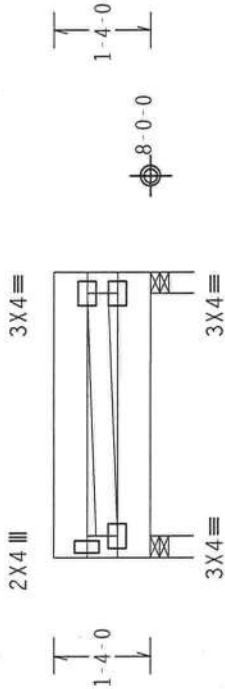
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Common (0.148"x3", min.)_nails)
Top Chord: 1 Row @ 3.50" O.C.
Bot Chord: 1 Row @ 12.00" O.C.
Webs : 1 Row @ 4" O.C.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Truss must be installed as shown with top chord up.



3-11-0 Over 2 Supports
R=1747 W=3.5" R=1746 W=3.5"

Design Crit: TPI-2002 (STD) / FBC

Cq/RT=1.00(1.25)/10(0)

7.04.0

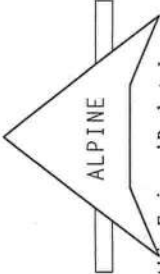
TY:1

FL/-/3/-/R/-

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 583 DUNFORD DR., SUITE 200, MADISON, WI 53719, AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., SUITE 100, FARMINGTON, CT 06031) FOR TRUSS DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

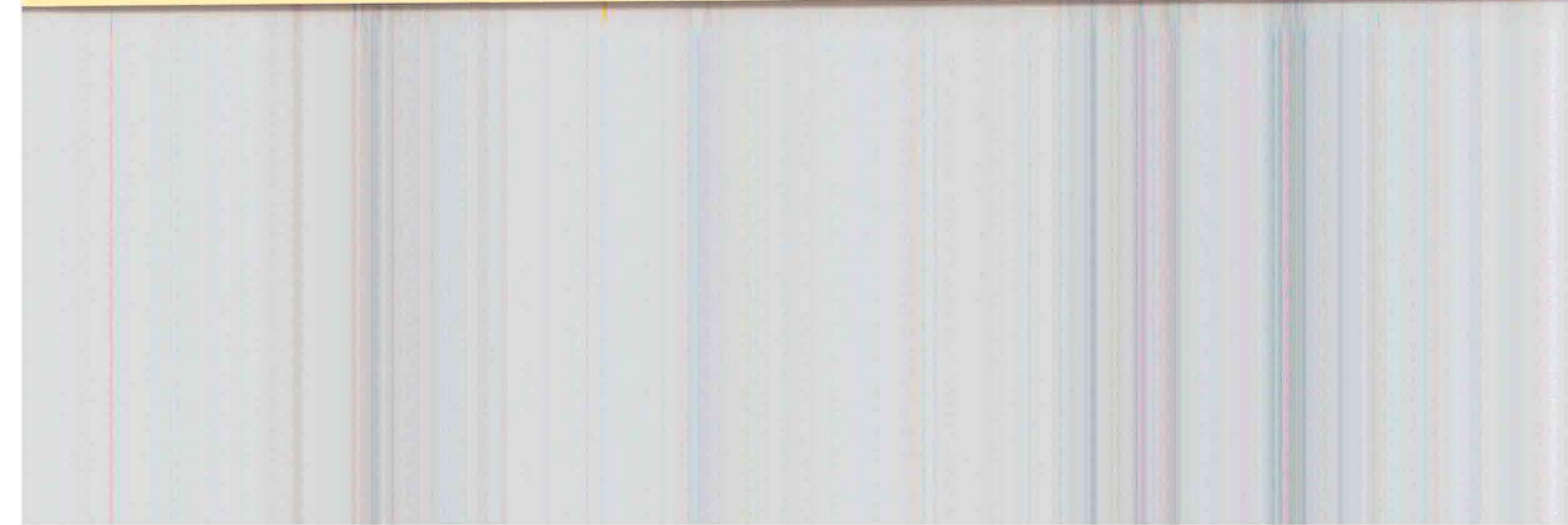
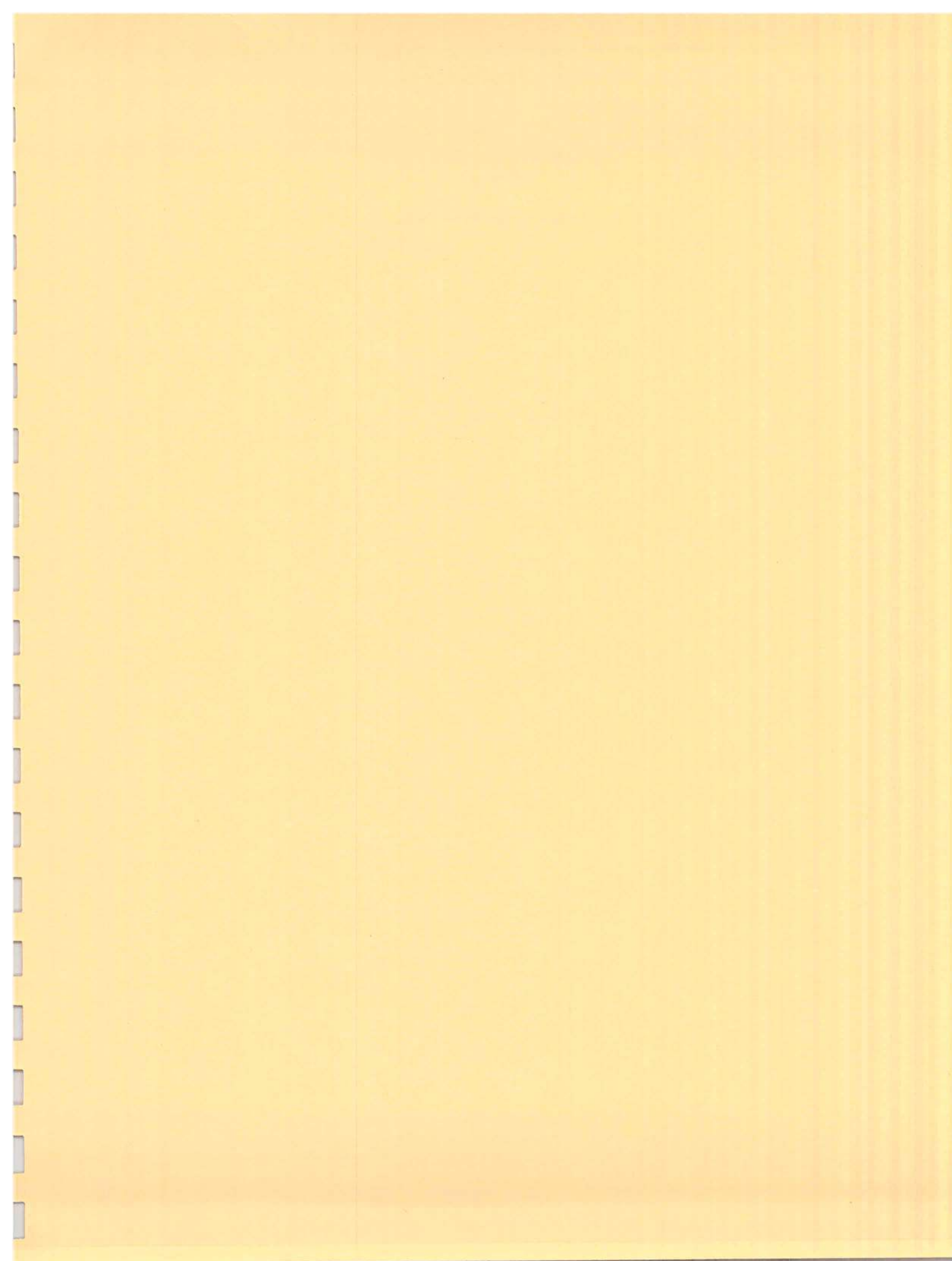
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (N/A/S/K) ASTM A653 GRADE 40/60 (N/A/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI-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.

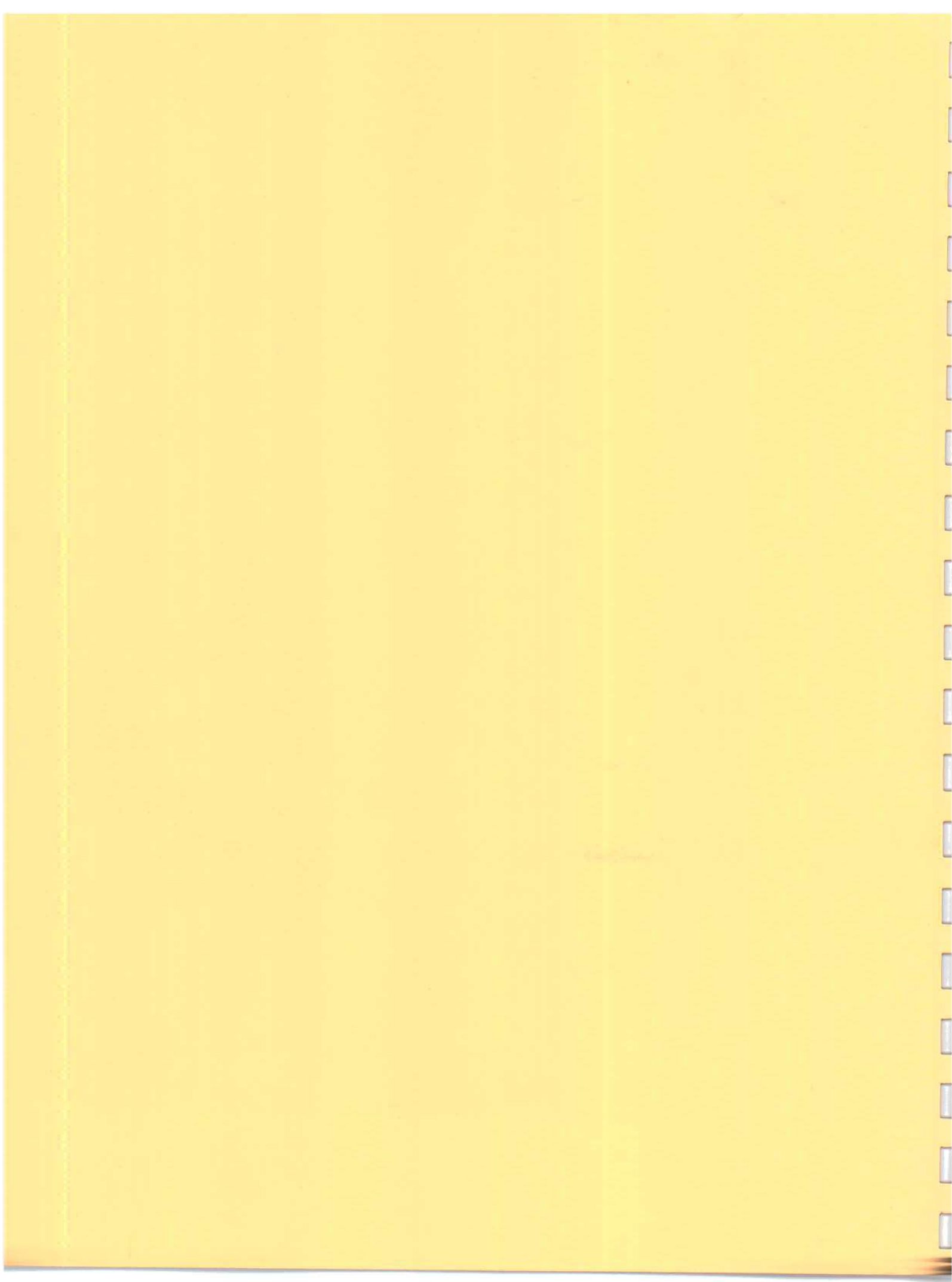


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567



TC LL	40.0 PSF	REF	R487 -- 56425
TC DL	10.0 PSF	DATE	10/21/05
BC DL	5.0 PSF	DRW	HCUSR487 05294004
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	55.0 PSF	SEQN	13712
DUR.FAC.	1.00		
SPACING	24.0"	JREF	1SRH487_Z02





Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1SRH487-Z0121133821

Truss Fabricator: Anderson Truss Company
Job Identification: 5-448-STEPHEN CRAWFORD - SERVICE
Truss Count: 24
Model Code: Florida Building Code
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.04.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-98 -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
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Details: A11030EC-GBLLETIN-A11015EC-A11015EN

#	Ref	Description	Drawing#	Date
1	56399--A1-GE		05294013	10/21/05
2	56400--A2		05294007	10/21/05
3	56401--A3		05294014	10/21/05
4	56402--B1-GE		05294015	10/21/05
5	56403--B2		05294008	10/21/05
6	56404--B3		05294009	10/21/05
7	56405--B4-GE		05294016	10/21/05
8	56406--C5		05294017	10/21/05
9	56407--C1		05294018	10/21/05
10	56408--C2		05294010	10/21/05
11	56409--C3		05294019	10/21/05
12	56410--C4		05294011	10/21/05
13	56411--C6		05294020	10/21/05
14	56412--D1-GE		05294021	10/21/05
15	56413--D2		05294012	10/21/05
16	56414--D3G		05294022	10/21/05
17	56415--HJ7		05294023	10/21/05
18	56416--EJ7		05294024	10/21/05
19	56417--J5		05294025	10/21/05
20	56418--J3		05294026	10/21/05
21	56419--J1		05294027	10/21/05
22	56420--K1-GE		05294028	10/21/05
23	56421--K2		05294029	10/21/05
24	56422--K3		05294030	10/21/05

Seal Date: 10/21/2005

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844





Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Page 1 of 1 Document ID:1SRH487-Z0121133821

Truss Fabricator: Anderson Truss Company
Job Identification: 5-448-STEPHEN CRAWFORD - SERVICE (5-448|-STEPHEN CRAWFORD - SERVICE)
Truss Count: 5
Model Code: Florida Building Code
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software,Version 7.04.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-98 -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
 - 2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
 - 3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Seal Date: 10/21/2005

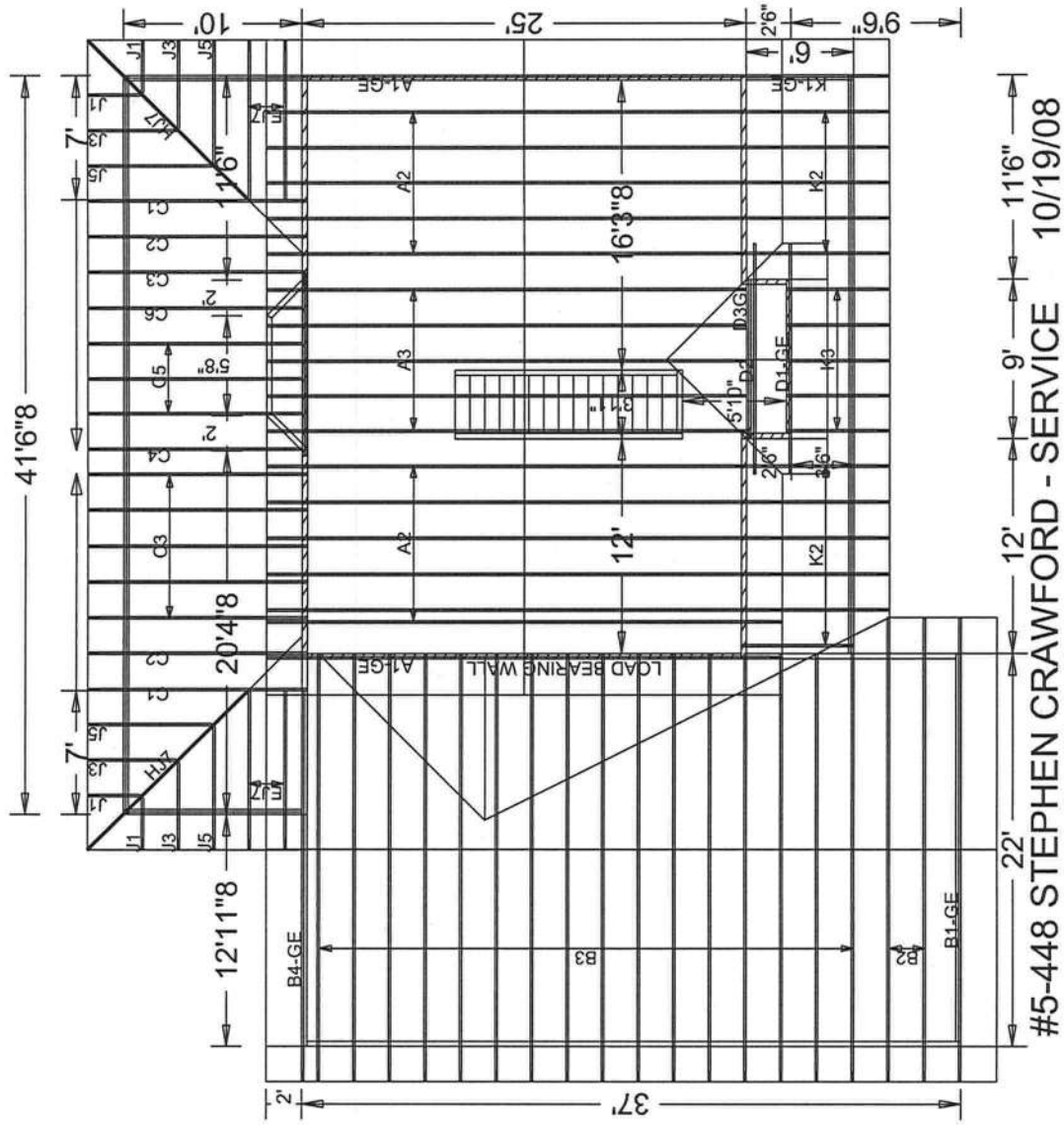
-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	56399--A1-GE		05294013	10/21/05
2	56402--B1-GE		05294015	10/21/05
3	56405--B4-GE		05294016	10/21/05
4	56412--D1-GE		05294021	10/21/05
5	56420--K1-GE		05294028	10/21/05

ALPINE





755-5068
867-0127

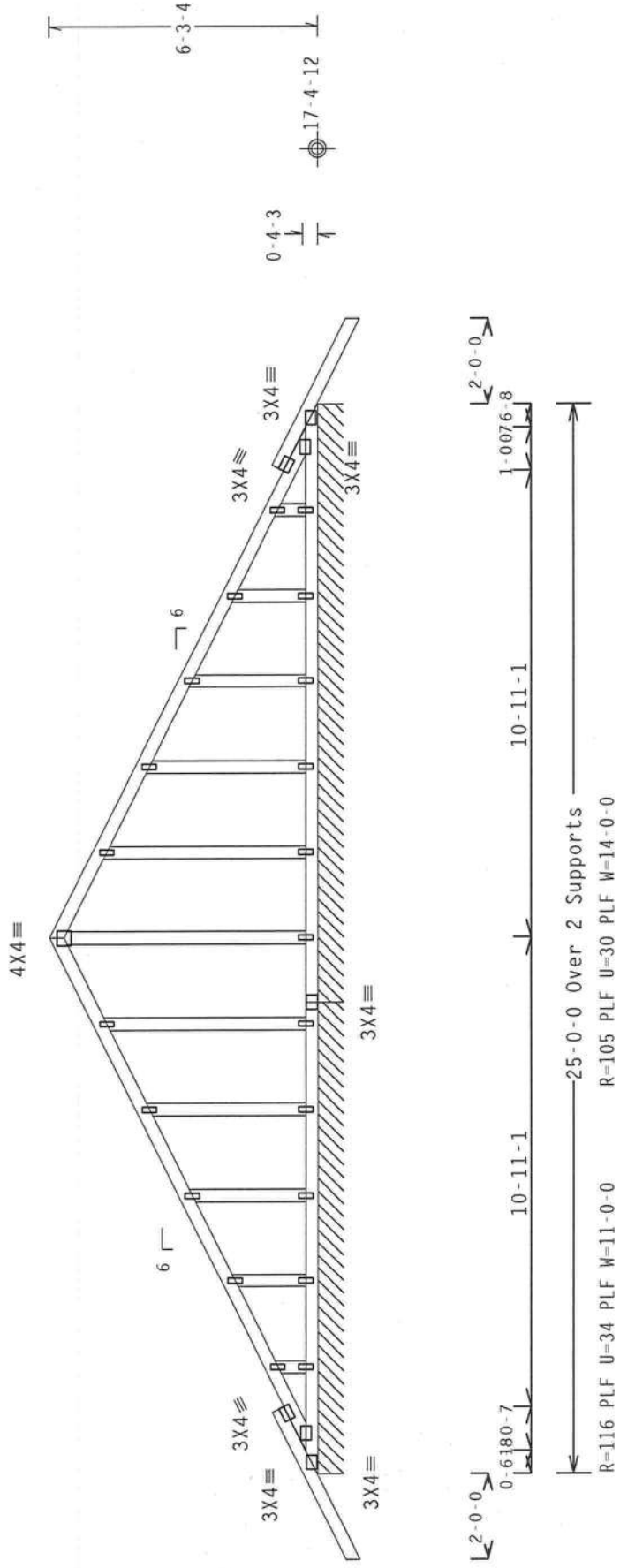
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

SPECIAL LOADS

TC - From	83 PLF at -2.00 to 12.50
TC - From	83 PLF at 12.50 to 27.00
BC - From	4 PLF at -2.00 to 0.00
BC - From	20 PLF at 0.00 to 25.00
BC - From	4 PLF at 25.00 to 27.00

110 mph wind, 20.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

See DWGS A11030EC1103 & GBLETTIN0405 for more requirements.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



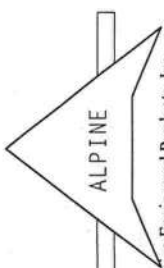
Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.04.00

TY:2 FL/-/3/-/-/R/-

Scale = .25" / Ft.

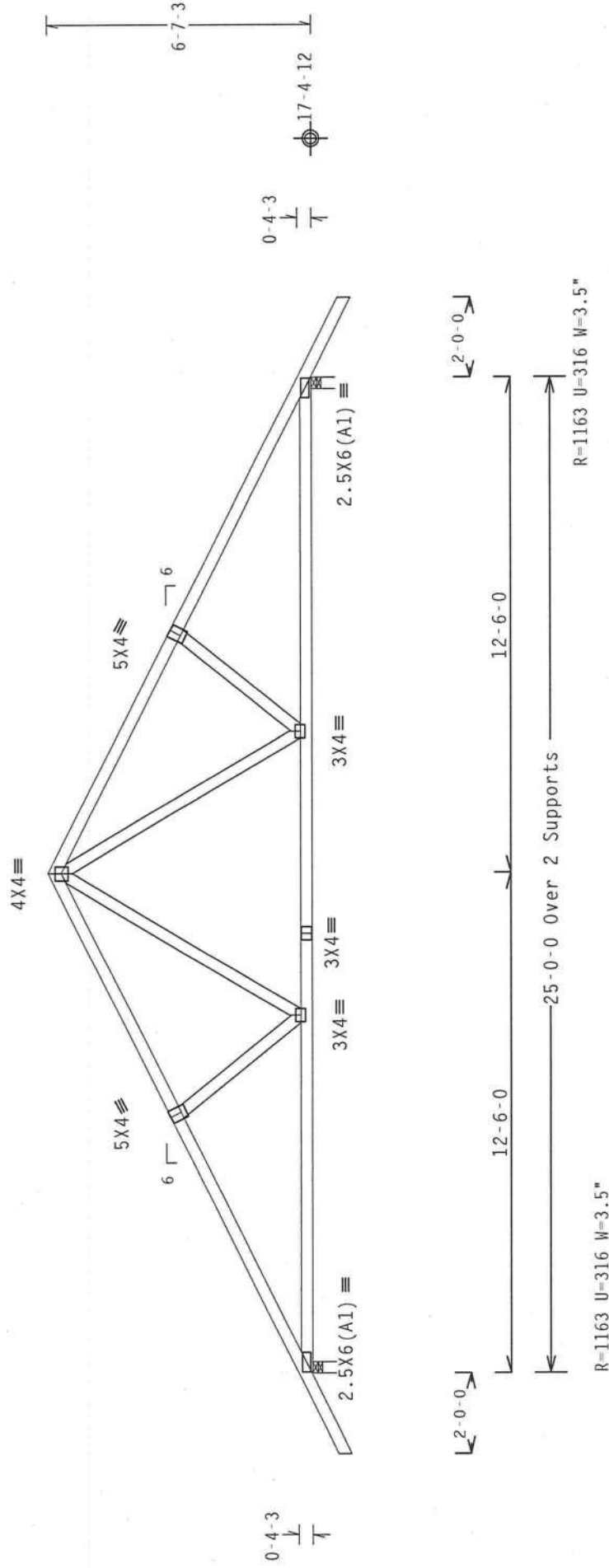
 Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 PL Certificate of Authorization # 567	**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND WICA (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.		PLT TYP. Wave	TC LL 20.0 PSF	REF R487-- 56399
	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 TO THE DESIGN REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.			TC DL 10.0 PSF	DATE 10/21/05
				BC DL 10.0 PSF	DRW HCUSR487 05294013
				BC LL 0.0 PSF	HC-ENG JB/AF
				TOT.LD. 40.0 PSF	SEQN- 13656 REV
				DUR.FAC. 1.25	JREF- 1SRH487_Z01
				SPACING 24.0"	



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

110 mph wind, 20.37 ft mean hgt, ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

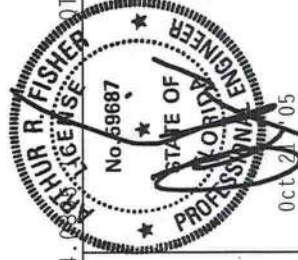
 $C_d/RT=1.00(1.25)/10(0)$

QTY:11 FL/-/3/-/-/R/-

Scale = .25"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSSPS PANEL INSTITUTE, 503 D'ORFORD DR., SUITE 200, MADISON, WI 53719, AND WICA (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. THE ALPINE ENGINEER'S PRODUCT, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP12 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR ANY OTHER VIOLATION OF THE BUILDING CODES, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE BUILDING DESIGNER PER ANNEX 4, SECTION 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # S67

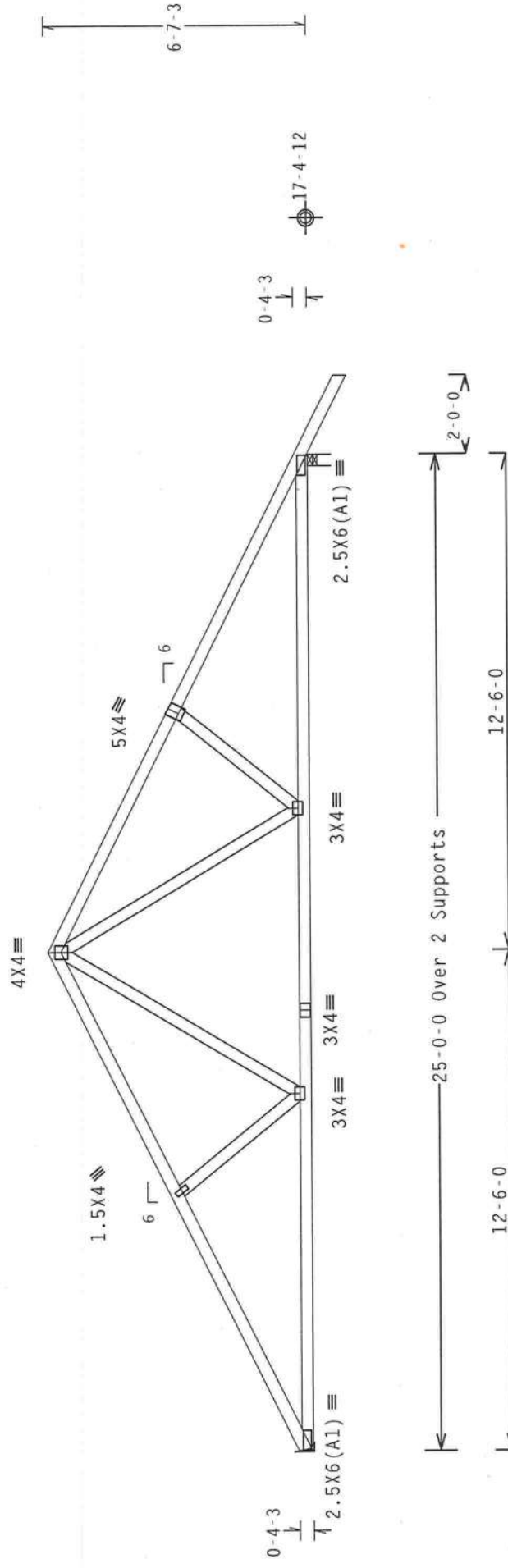
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TC DL	10.0 PSF	DATE	10/21/05	
BC DL	10.0 PSF	DRW	HCUSR487	05294007
BC LL	0.0 PSF	HC-ENG	JB/AF	*
TOT.LD.	40.0 PSF	SEQN -	13584	
DUR.FAC.	1.25			
SPACING	24.0"	JREF -	1SRH487_Z01	

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

110 mph wind, 20.37 ft mean hgt. ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 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.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=1022 U=263 H=Simpson LUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

R=1170 U=319 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/

PLT TYP. Wave

08/05/2015 15:50:00
FL/ - /3/ - / - /R/ -

Scale = .25"/Ft.

*WARNING** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, UNLOADING AND BRACING. REFER TO THE FOLLOWING COMPONENT SPECIFICATIONS, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 WEST 200, MADISON, WI 53719, AND MECA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE I, MADISON, WI 53719), TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

****IMPORTANT:**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. AIRPINE ENGINEERS & 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 THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) CODES AND SPECIFICATIONS, 900/600 (C), 900/600 (N), 900/600 (S), 900/600 (W), 900/600 (X), 900/600 (Y), 900/600 (Z), 900/600 (AA), 900/600 (AB), 900/600 (AC), 900/600 (AD), 900/600 (AE), 900/600 (AF), 900/600 (AG), 900/600 (AH), 900/600 (AI), 900/600 (AJ), 900/600 (AK), 900/600 (AL), 900/600 (AM), 900/600 (AN), 900/600 (AO), 900/600 (AP), 900/600 (AQ), 900/600 (AR), 900/600 (AS), 900/600 (AT), 900/600 (AU), 900/600 (AV), 900/600 (AW), 900/600 (AX), 900/600 (AY), 900/600 (AZ), 900/600 (BA), 900/600 (BB), 900/600 (BC), 900/600 (BD), 900/600 (BE), 900/600 (BF), 900/600 (BG), 900/600 (BH), 900/600 (BI), 900/600 (BJ), 900/600 (BK), 900/600 (BL), 900/600 (BM), 900/600 (BN), 900/600 (BO), 900/600 (BP), 900/600 (BQ), 900/600 (BR), 900/600 (BS), 900/600 (BT), 900/600 (BU), 900/600 (BV), 900/600 (BW), 900/600 (BX), 900/600 (BY), 900/600 (BZ), 900/600 (CA), 900/600 (CB), 900/600 (CC), 900/600 (CD), 900/600 (CE), 900/600 (CF), 900/600 (CG), 900/600 (CH), 900/600 (CI), 900/600 (CJ), 900/600 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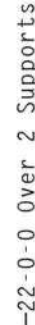
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

James City, FL 33844
FL Certificate of Authorization # 567

TC LL	20.0	PSF	REF	R487 --	56401
TC DL	10.0	PSF	DATE	10/21/05	
BC DL	10.0	PSF	DRW	HCUSR487	05294014
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	13595	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1SRH487_Z01	



Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=1046 U=185 W=3.5"

$R=900 \quad U=180 \quad W=3.5''$

4.0518
R. FISHER
DENSE
TY: 16 FL / - 3 / - / R / -
Scale = .3125" / Ft

4.0.08

Scale = .3125"/Ft.

REF R487-- 56404

DATE 10/21/05

DATE 06/22/09
DBW HCUISR487 05291009

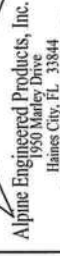
UIC ENC 1B/1F

HC-ENG JB/AF

SEQN- 136/3

JREF- 1SRH487_Z01

**** IMPORTANT **** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS 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 NATIONAL DESIGN SPECIFICATION (NDS) AND THE NATIONAL SPECIFICATION FOR STEEL DECKING (NSD) WITH APPLICABLE PROVISIONS OF AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) AND THE AISC PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI-2002 SEC. 2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING, DESIGNER PER ANNEX 11C SEC. 2. FOR ALL OTHER BUILDING, DESIGNER PER ANNEX 11C SEC. 2.



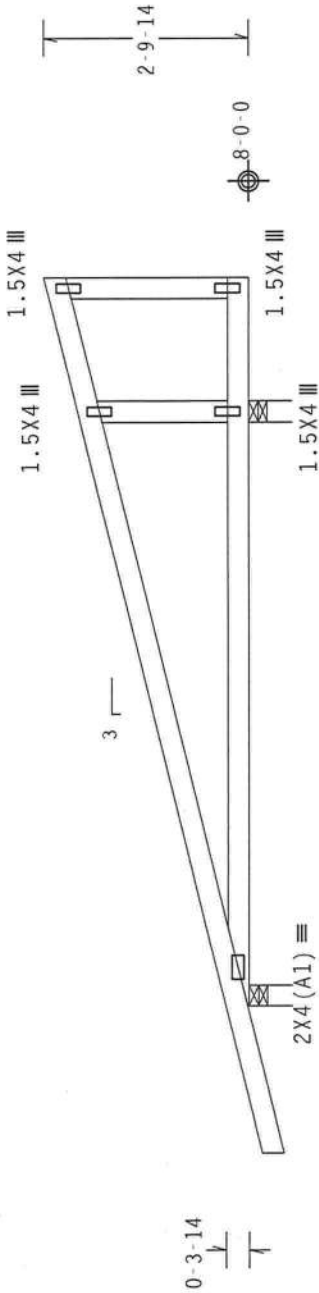
FL Certificate of Authorization # 567

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

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-5.0 psf, wind
BC DL-5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor
for dead load is 1.50.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002 (STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.04.0
R=447 U=180 W=3.5"
R=489 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002 (STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.04.0

FL/-/3/-/-/R/-

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND NTCA (NATIONAL 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**** TURNISH 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 TPI1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE LOCAL, STATE, FEDERAL AND INTERNATIONAL CODES. BY APPLYING THESE TRUSSES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ADX 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.



FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487--	56406
TC DL	10.0 PSF	DATE	10/21/05	
BC DL	10.0 PSF	DRW	HCUSR487	05294017
BC LL	0.0 PSF	HC-ENG	JB/AF	
TOT.LD.	40.0 PSF	SEQN-	13558	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1SRH487_Z01	

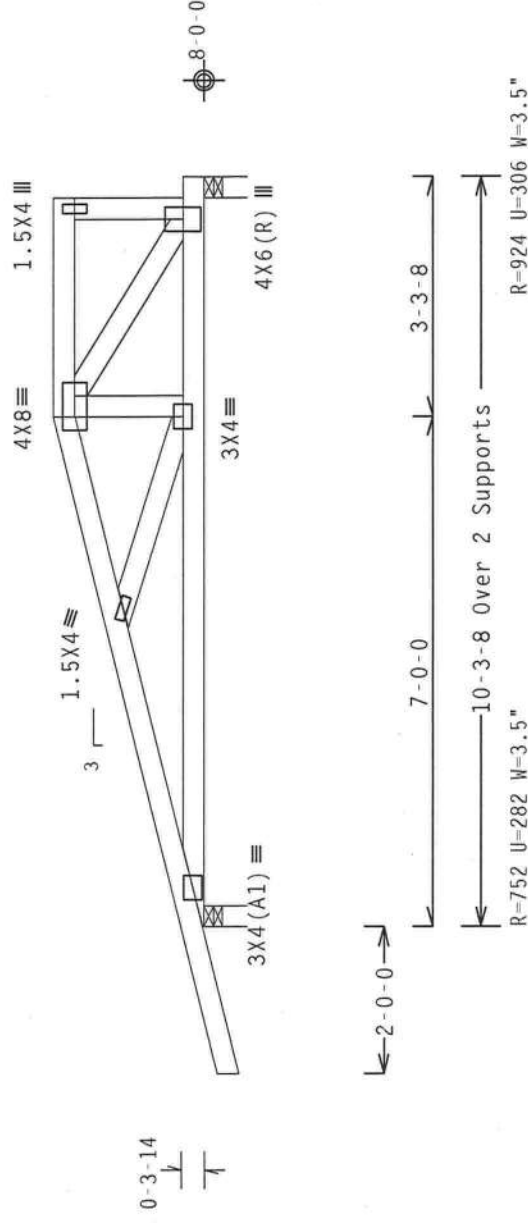
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

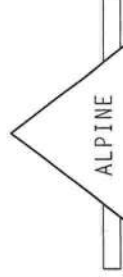


Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

 $Cq/RT=1.00(1.25)/10(0) \quad 7.04(0)$

Scale = .375"/Ft.



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

WARNING THUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. ALWAYS FOLLOW THE MANUFACTURER'S RECOMMENDATIONS REGARDING PROPER 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 ENGINEERS & ARCHITECTS, INC. SHALL BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AIAA) & TP1, THE DESIGN CONTRACTOR SHALL BE RESPONSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE BUILDING OF THIS COMPONENT. FOR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANNEX/TP1-1 SEC. 2.



Oct 21 '05

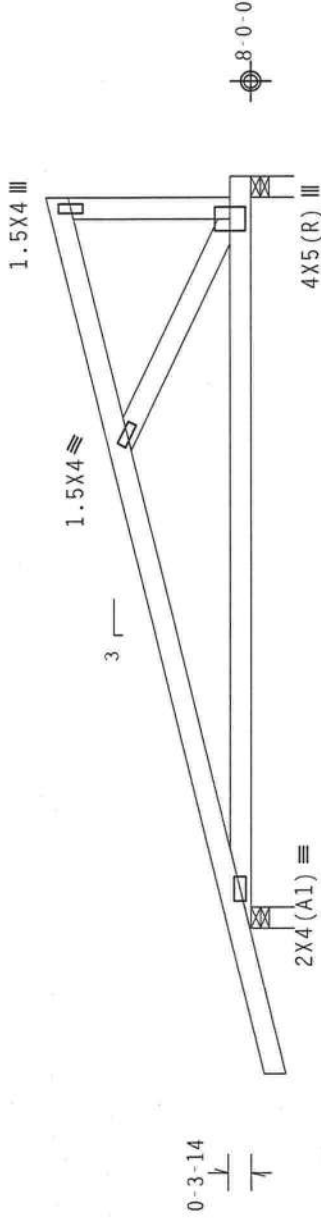
TC LL	20.0 PSF	REF R487 - - 56407
TC DL	10.0 PSF	DATE 10/21/05
BC DL	10.0 PSF	DRW HCURS487 05294018
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 13531
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SRH487_Z01

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

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=5.0 psf, wind
BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor
for dead load is 1.50.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

Design Crit: TPI-2002 (STD) / FBC

Cq/RT=1.00(1.25)/10(0)

7.04.08

FL / - / 3 / - / - / R / -

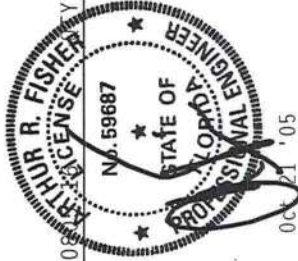
Scale = .375" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 O'CONNOR DR., SUITE 200, MADISON, WI 53719) AND MTCA (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 TPI1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AYRPA) AND TPI1: ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION OF THE TRUSS. 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.



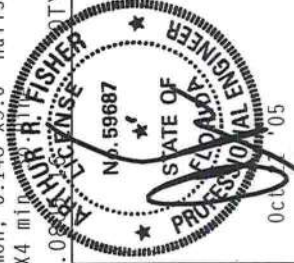
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567



REF	R487--	56409
DATE	10/21/05	
DRW	HCUSR487	05294019
HC-ENG	JB/AF	
SEQN-	13548	
TOT.LD.	40.0	PSF
BC LL	0.0	PSF
BC DL	10.0	PSF
TC DL	10.0	PSF
TC LL	20.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	
JREF-	1SRH487_Z01	



Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

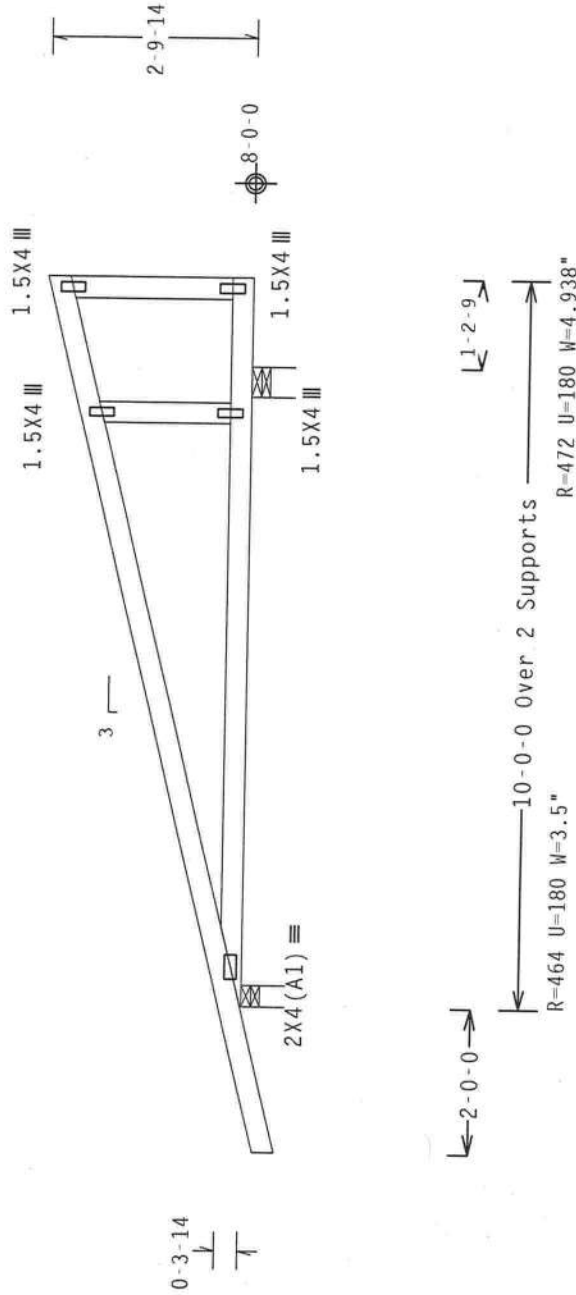


FL/-/3/-/-/R/-		Scale = .375"/Ft.
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TC DL	10.0 PSF	DATE 10/21/05
BC DL	10.0 PSF	DRW HCUSR487 05294011
BC LL	0.0 PSF	HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN- 13575
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SRH487_Z01

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=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

****WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTANTING AND BRACING**

*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECSI 3-003 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 O'DONNELL DR., SUITE 200, MADISON, MI 48219) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, MI 48219) 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 THE INSTALLATION CONTRACTOR PRODUCTS, SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES AND CONNECTOR PLATES ARE TO FOLLOW THE APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AFAPA) AND TPI. ALPINE ENGINEERED WOODWORK INC. IS PROVIDING (MATERIALS) ASTM A563 GRADE 40 / 60 (4 / K.H.S.) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS MEMBERS THEREUSE LOCATED ON THIS POSITION PER DRAWINGS 160A-2 THROUGH 160E-2. SEE ALSO DRAWING 160F-2 FOR THE LOCATION OF ALL DIMENSIONS. SEE ANEX A.3 OF TPI-2002 SEC. 3. 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.



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1950 Marley Drive

Haines City, FL 33844
FL Certificate of Authorization # 567

QTY: 1

$$Cq/RT=1.00(1.25)/10(0) \quad 7.04(0)$$

Scale = .375"/Ft.

TC LL	20.0	PSF	REF	R487 - -	56411
TC DL	10.0	PSF	DATE	10/21/05	
BC DL	10.0	PSF	DRW	HCUSR487	05294020
BC LL	0.0	PSF	HC-ENG	JB/AF	
TOT.LD.	40.0	PSF	SEQN-	13567	
DUR.FAC.	1.25				
SPACING	24.0"		JREF-	1SRH487 701	



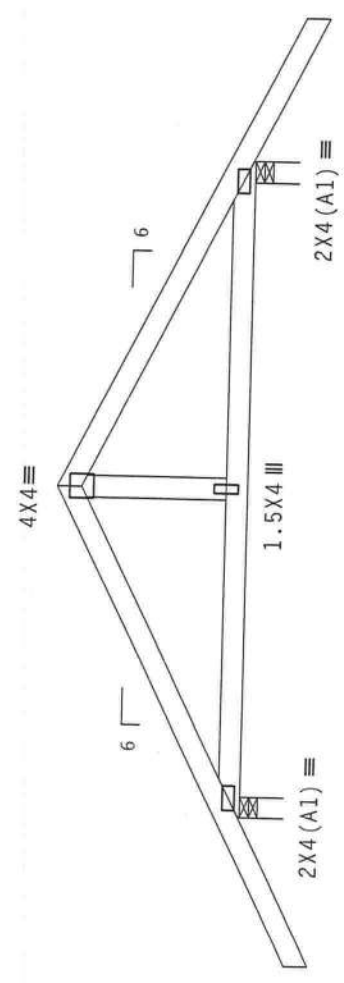
Oct 21 '05



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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

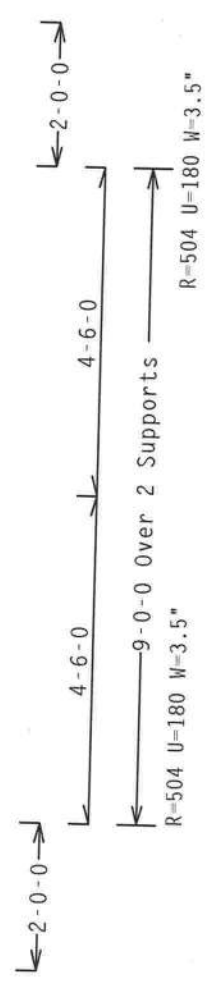
110 mph wind, 18.37 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



0-4-3
17-4-12

0-4-3
17-4-12

2-7-3



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.04.0

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND THE 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 TO THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

THUR R. FISHER
LICENSE
NO. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
06/21/05

TC LL	20.0 PSF	FL/-/3/-/-/R/-	Scale = .375"/Ft.
TC DL	10.0 PSF	REF R487-- 56413	
BC DL	10.0 PSF	DATE 10/21/05	
BC LL	0.0 PSF	DRW HCUSR487 05294012	
TOT.LD.	40.0 PSF	HC-ENG JB/AF	*
DUR.FAC.	1.25	SEON- 13608	
SPACING	24.0"	JREF- 1SRH487_Z01	

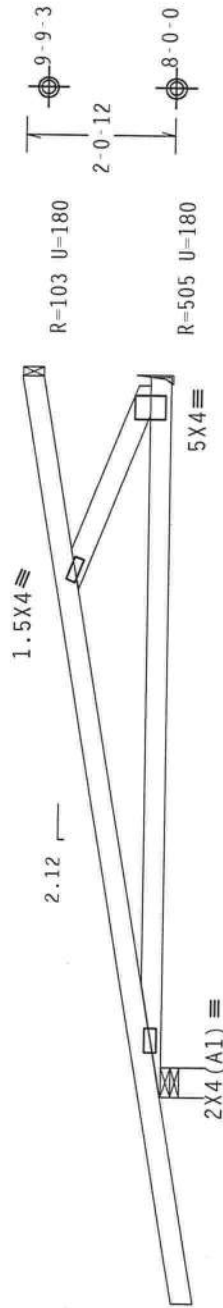
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



2-9-15
9-10-13 Over 3 Supports
R-511 U-215 W-4.95"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.04.08

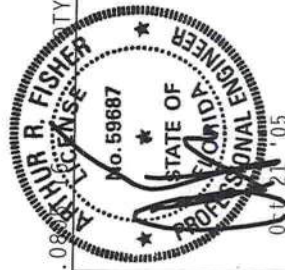
Scale = .375"/Ft.

FL/-3/-/-/R/-

TY:2

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487-- 56415
DATE	10/21/05
DRW	HCUSR487 05294023
HC-ENG	JB/AF
SEQN	13522
JREF	1SRH487_Z01



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATING INSTITUTE), 10000 DR., SUITE 200, MADISON, WI 53719, AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSSES 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 THE DESIGN, OR ANY FAILURE TO PROVIDE THE TRUSS WITH THE NECESSARY BRACING, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGNER'S RESPONSIBILITY IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



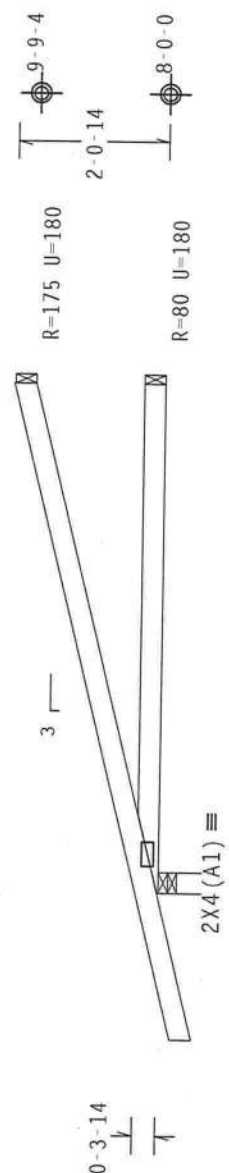
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 8.95 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



7-0-0 Over 3 Supports
R=439 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cg/RT=1.00(1.25)/10(0) 7.04.08

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PANELING INSTITUTE), 583 O'DONOHUE DR., SUITE 200, MADISON, WI 53719, AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSSES 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 SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. FOR TRUSSES, 1989 EDITION, AND THE ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED, SHALL BE LOCATED IN THE MIDDLE OF THE TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI. APPLY A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



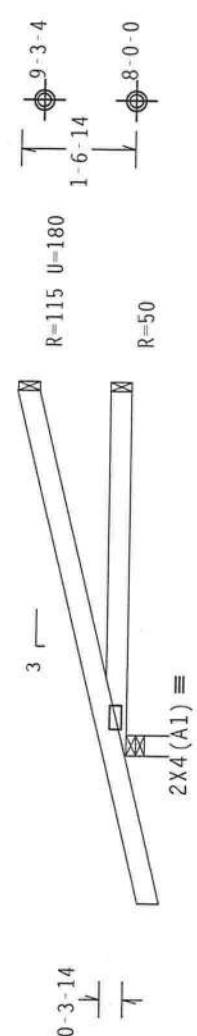
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TC DL	10.0 PSF		REF R487-- 56416
BC DL	10.0 PSF		DATE 10/21/05
BC LL	0.0 PSF		DRW HCUSR487 05294024
TOT.LD.	40.0 PSF		HC-ENG JB/AF
DUR.FAC.	1.25		SEQN- 13487
SPACING	24.0"		JREF- 1SRH487_Z01

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 8.70 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



←-2-0-0-→
←-5-0-0 Over 3 Supports →
R=368 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.04.0

TC LL	20.0 PSF	FL/-3/-/-/R/-	Scale = .375"/Ft.
TC DL	10.0 PSF		REF R487 -- 56417
BC DL	10.0 PSF		DATE 10/21/05
BC LL	0.0 PSF		DRW HCUSR487 05294025
TOT.LD.	40.0 PSF		HC-ENG JB/AF
DUR.FAC.	1.25		SEQN- 13494
SPACING	24.0"		JREF- 1SRH487_Z01



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS SYSTEMS, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND NITCA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300 FARMERS BLVD., 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 APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AFAPA AND TPI. ALPINE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AFAPA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GALV. STEEL. UNLESS OTHERWISE INDICATED, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE INDICATED, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY 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.

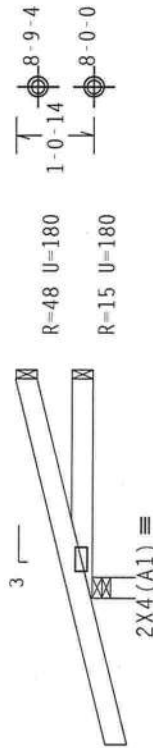
Alpine Engineered Products, Inc.
1950 Manley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 8.45 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



3-0-0 Over 3 Supports
R=309 U=180 W=3.5"

Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/10(0)

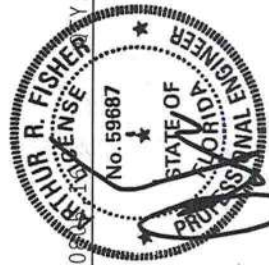
PLT TYP. Wave

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 TRUSSES ARE MANUFACTURED IN THE U.S. AND ARE MADE OF 100% U.S. STEEL. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL BE INSPECTED AND APPROVED BY TPI. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC. 2.1. ANY INSPECTION OF 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.



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



7.04.08

Scale = .375"/Ft.

TC LL	20.0 PSF	REF R487 --	56419
TC DL	10.0 PSF	DATE	10/21/05
BC DL	10.0 PSF	DRW HCUSR487	05294027
BC LL	0.0 PSF	HC-ENG JB/AF	
TOT.LD.	40.0 PSF	SEQN-	13509
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SRH487_Z01

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 82 PLF at -2.00 to 82 PLF at 6.00
BC - From 4 PLF at -2.00 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 6.29

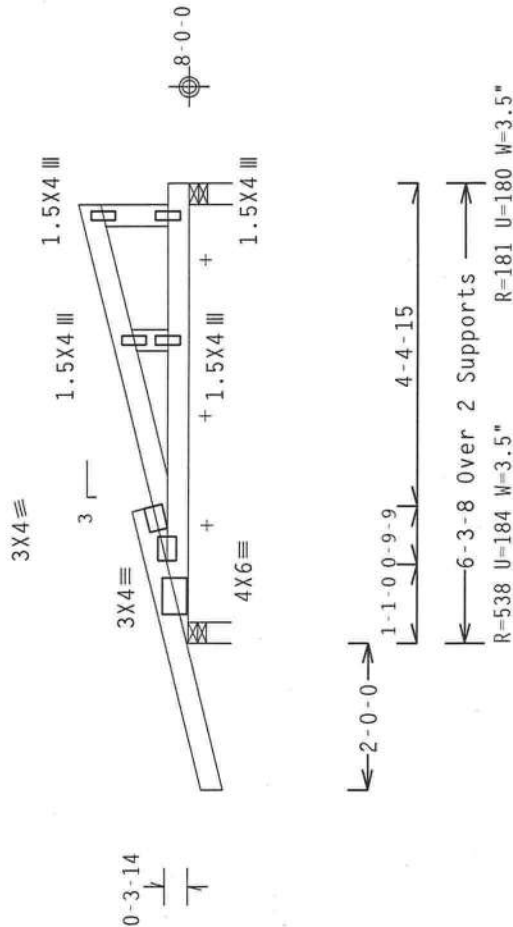
See DWGS A11015EN1103 & GBLLETIN1103 for more requirements.

+ MEMBER TO BE LATERALLY BRACED FOR HORIZONTAL WIND LOADS.
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

110 mph wind, 8.67 ft mean hgt, ASCE 7-98, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0
psf.

Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF ROOF AND
CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, SUPPORTING SHEAR WALLS.
SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO GABLE END.
ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



PLT TYP. Wave
Design Crit: TPI-2002 (STD) / FBC
Cq/RT=1.00(1.25)/10(0) 7.04.08

Scale = .375" / Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 503
D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND NCA (NATIONAL 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.
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TPI:
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. APPLY
CORRECTION PLATES ARE MADE OF 2018/18GA (N/A/5/3) ASTM A553 GRADE 40/80 (N/A/5) GALV. STEEL. APPLY
ANY INSPECTION OF PLATES FOLLOWED BY TPI. UNLESS OTHERWISE LOCATED ON THIS DESIGN, SEE TPI 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.



FL Certificate of Authorization # 567



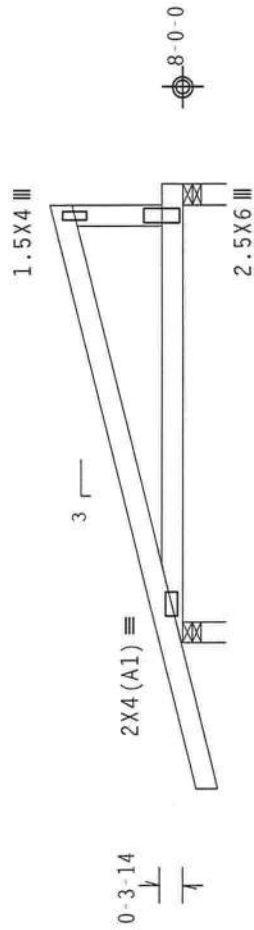
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487 --	56420
DATE	10/21/05	
DRW	HCUSR487	05294028
HC-ENG	JB/AF	
SEQN	13639	REV
JREF	1SRH487_Z01	

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 8.82 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/10(0)

PLT TYP. Wave

7.04.00

TY:11 FL/-/3/-/R/-

Scale =.375"/Ft.

Alpine Engineering Products, Inc.
1950 Mailey Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 503 O'CONNOR DR., SUITE 200, MADISON, WI 53719, AND NCA (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 2018/16GA (0.0156") ASH A653 GRADE 40/60 (W. K/H.5) GALV. STEEL. APPLY PLATES TO EACH JOINT OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. WORK 2. 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.

PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC
Cq/RT=1.00(1.25)/10(0)

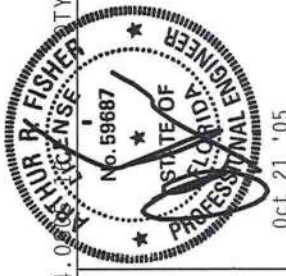
7.04.00

TY:11 FL/-/3/-/R/-

Scale =.375"/Ft.

TC LL	20.0	PSF
TC DL	10.0	PSF
BC DL	10.0	PSF
BC LL	0.0	PSF
TOT.LD.	40.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	

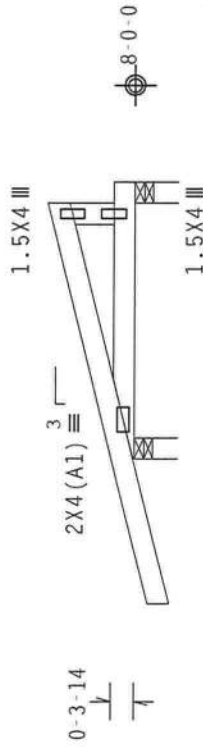
REF	R487--	56421
DATE	10/21/05	
DRW	HCUSR487	05294029
HC-ENG	JB/AF	
SEQN-	13628	
JREF-	1SRH487_Z01	



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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 8.51 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



PLT TYP. Wave

Design Crit: TPI-2002 (STD) /FBC

Cq/RT=1.00(1.25)/10(0) 7.04.08

TY:5 FL/-/3/-/-/R/-

Scale =.375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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 TRUSSES ARE MANUFACTURED TO 2018/180A (W/H/25F) ASTM A553 GRADE 40/60 (W/ K/P/L/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEAL 43 OF TPI 1802 SEC. 2. ANY INSPECTION OF TRUSSES SHALL BE PER ANNEAL 43 OF TPI 1802 SEC. 2. 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.



FL Certificate of Authorization # 567



TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487--	56422
DATE	10/21/05	
DRW	HCUSR487	05294030
HC-ENG	JB/AF	
SEQN-	13648	
JREF-	1SRH487_Z01	

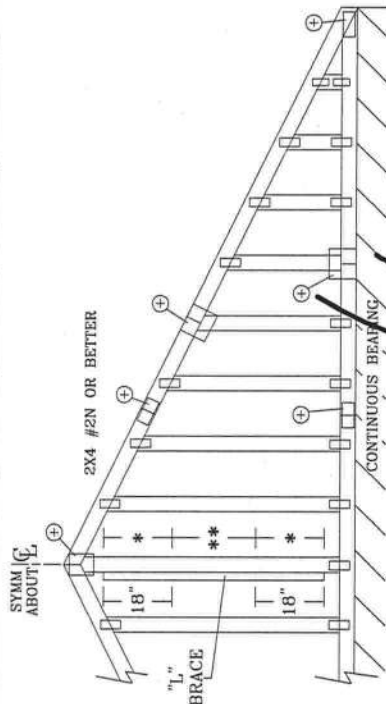


2X4 GABLE VERTICAL SPACING SPECIES		BRACE		NO BRACES	(1) 1X4 "L" BRACE *				(1) 2X4 "L" BRACE *				(2) 2X4 "L" BRACE **				(1) 2X6 "L" BRACE *				(2) 2X6 "L" BRACE *																																																																																																																																							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

DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR 700#
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL



REFER TO CHART ABOVE FOR MAX GAS/UNIT LENGTH.

[illegible]

IMPORTANT FURNISH COPY OF THIS DESIGN TENSILE/COMPRESSION/ALPINE CONNECTOR/ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IT IS THE RESPONSIBILITY OF THE TRUSS FABRICATOR TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR STEEL STRUCTURES (AISC 360-10) AND THE ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA 4045/42 ASTM A653 GRADE 409/460 GALV/STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY THE DRAWING, POSITION PER DRAWINGS 1600-2. ANY INSPECTION OF PLATES FOLLOWED BY (D) SHALL BE IN ACCORDANCE WITH THE AISC 360-10 SECTION 13.1. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING AND ARCHITECTURAL SEAL FOR THE TRUSS COMPONENT DESIGN SHOWN. THE RESPONSIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1.1-2008.

REF	ASCE7-98-GABI1030
DATE	11/26/03
DRWG	A11030EC1103
-ENG	

MAX. TOT. LD. 60 PSF

MAX. SPACING	24.0"
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
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89	90
91	92
93	94
95	96
97	98
99	100

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 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

IN TO END ZONES AND 4 O.C. BETWEEN ZONES.
**** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.**

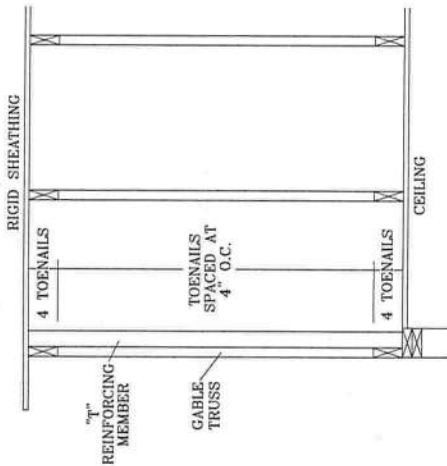
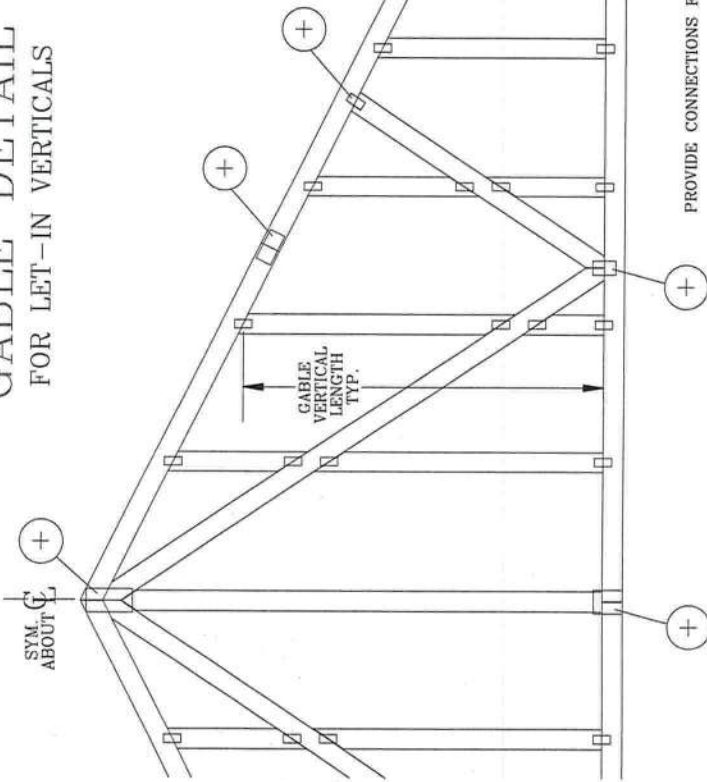
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

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.

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:



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 CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103

A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08015EC1103

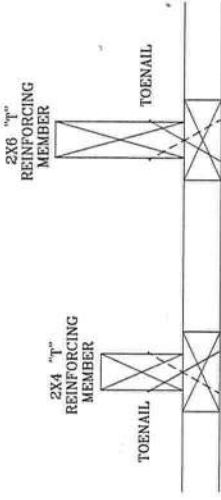
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08030EC1103

SBCCI GABLE DETAIL DRAWINGS

S11015EN1103, S10015EN1103, S09015EN1103, S08015EN1103, S07015EN1103

S11030EN1103, S10030EN1103, S09030EN1103, S08030EN1103, S07030EN1103

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



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 CABLE 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	20 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	10 %	40 %
90 MPH	2x4	20 %	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

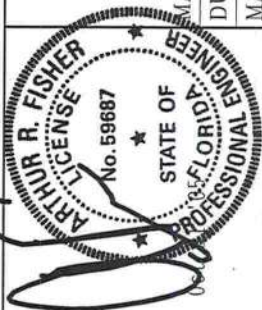
"T" REINFORCING MEMBER SIZE = 2X4

"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"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNDRAKE DR., SUITE 200, MADISON, WI 53719) AND VTCA (WOOD TRUSS COUNCIL, 6500 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. THESE FUNCTIONS SHOULD BE PERFORMED BY PERSONNEL WHO HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

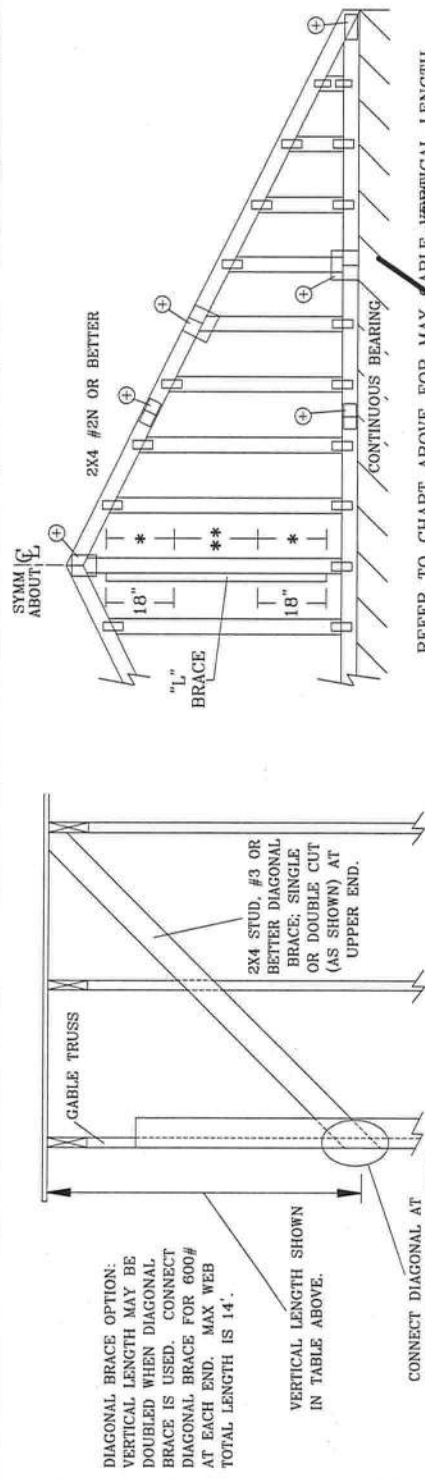
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, 2005) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2024-T3 ALUMINUM (A7053) ASTM A633 GRADE 40/50. ALPINE CONNECTOR PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED OTHERWISE, SHALL BE PER ANNEAL 3 OF TPI 1-2002, SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

REF	LET-IN VERT
DATE	01/16/04
DRWG	GBLETTIN1103
-ENG	DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

2x4 GABLE VERTICAL SPACING		BRACE GRADE		(1) 1x4 "L" BRACE		(1) 2x4 "L" BRACE		(2) 2x4 "L" BRACE		(1) 2x6 "L" BRACE		(2) 2x6 "L" BRACE		(1) 2x8 "L" BRACE		(2) 2x8 "L" BRACE	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
MAX GABLE VERTICAL LENGTH	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	12' 5"	12' 5"	12' 5"	12' 5"	12' 9"	12' 9"	14' 0"	14' 0"
	HF	#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	12' 4"	12' 4"	12' 4"	12' 4"	14' 0"	14' 0"
	SP	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	10' 7"	10' 7"	10' 7"	10' 7"	14' 0"	14' 0"
	DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	12' 5"	12' 5"	12' 5"	13' 5"	13' 5"	14' 0"	14' 0"
24" O.C.	SP	#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	12' 5"	12' 5"	12' 5"	13' 5"	13' 5"	14' 0"	14' 0"
	HF	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 5"	12' 5"	12' 5"	12' 8"	12' 8"	14' 0"	14' 0"
	SP	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	10' 10"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"
	DFL	#1 / #2	4' 5"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	12' 11"	12' 11"	12' 11"	12' 11"	14' 0"	14' 0"
	SP	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#3	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	13' 3"	13' 3"	13' 3"	13' 3"	14' 0"	14' 0"
	SP	#1 / #2	4' 11"	8' 5"	8' 5"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#1	5' 4"	8' 5"	8' 5"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#2	5' 3"	8' 5"	8' 5"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
MAX GABLE VERTICAL LENGTH	SP	STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

ARTHUR R. FISHER

Professional Engineer

No. 59887

STATE OF FLORIDA

06/21/21

MAX. SPACING 24.0"

BRACING GROUP SPECIES AND GRADES:			
GROUP A:			
SPRUCE-PINE-FIR	HEM-FIR		
#1 / #2	STANDARD	#2	STUD
#3	STANDARD	#3	STANDARD
GROUP B:			
DOUGLAS FIR-LARCH	SOUTHERN PINE		
#3	STUD	#3	STUD
STANDARD	STANDARD		

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 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.

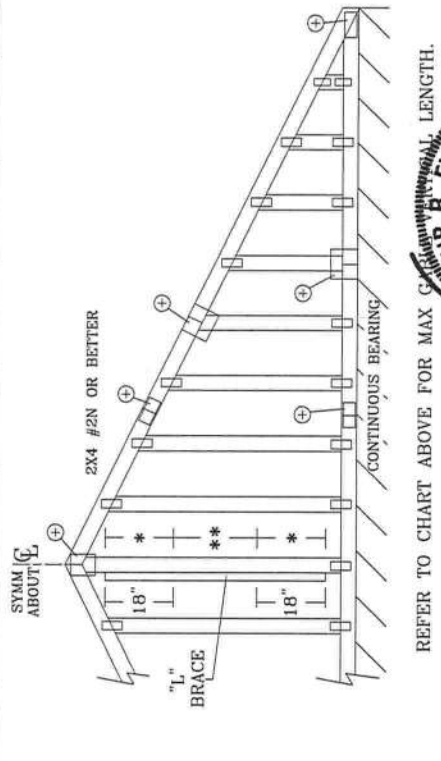
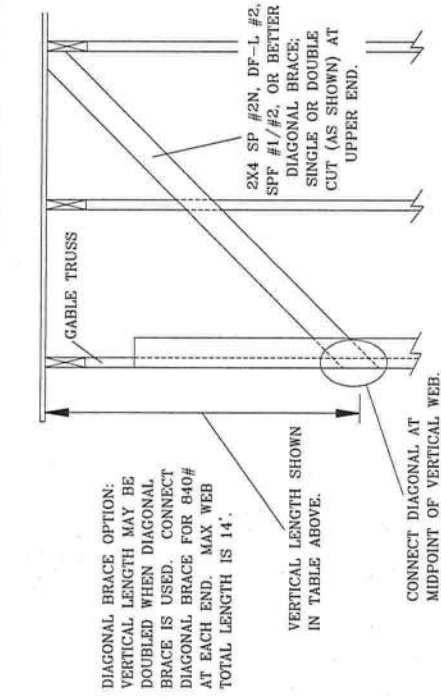
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

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.			

REF	ASCE7-98-CABI1015
DATE	11/26/03
DRWG	A11015EC1103
-ENG	

2x4 GABLE VERTICAL SPACING		BRACE GRADE		NO BRACES		(1) 1x4 "L" BRACE		(2) 2x4 "L" BRACE		(1) 2x6 "L" BRACE		(2) 2x6 "L" BRACE		GROUP B	
						GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B		
MAX GABLE VERTICAL LENGTH	12" O.C.	SPF	#1 / #2	3' 4"	5' 10"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"	GROUP A	GROUP B
			#3	3' 3"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"		
			STUD	3' 3"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"		
			STANDARD	3' 3"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"		
	24" O.C.	SP	#1	3' 8"	5' 10"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"	GROUP A	GROUP B
			#2	3' 7"	5' 10"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"		
			#3	3' 6"	5' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"		
			STUD	3' 6"	5' 0"	6' 7"	6' 7"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"		
	16" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"	GROUP A	GROUP B
			#3	3' 9"	6' 0"	6' 0"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
			STUD	3' 9"	6' 0"	6' 10"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
			STANDARD	3' 9"	5' 2"	6' 10"	6' 10"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"		
	12" O.C.	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	8' 6"	12' 5"	13' 5"	14' 0"	14' 0"	GROUP A	GROUP B
			#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	8' 6"	12' 5"	13' 5"	14' 0"	14' 0"		
			#3	4' 0"	6' 2"	7' 11"	8' 2"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"		
			STUD	4' 0"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"		
	12" O.C.	SPF	#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	8' 11"	10' 5"	10' 10"	14' 0"	14' 0"	GROUP A	GROUP B
			#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	8' 9"	10' 5"	10' 5"	14' 0"	14' 0"		
			STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	8' 9"	10' 5"	10' 5"	14' 0"	14' 0"		
			STANDARD	4' 2"	5' 11"	7' 10"	7' 10"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
	12" O.C.	SP	#1	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"	GROUP A	GROUP B
			#2	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"		
			#3	4' 4"	7' 2"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"		
			STUD	4' 4"	7' 1"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"		
	12" O.C.	DFL	STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 5"	12' 6"	14' 0"	14' 0"	GROUP A	GROUP B



BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	#1 / #2	STUD	STANDARD
HEM-FIR	#2	STUD	STANDARD
DOUGLAS FIR-LARCH	#3	STUD	STANDARD

DOUGLAS FIR-LARCH

#3

STUD

STANDARD

SOUTHERN PINE

#3

STUD

STANDARD

GROUP B:

SPRUCE-PINE-FIR	#1 & BTR	STUD	STANDARD
HEM-FIR	#1	STUD	STANDARD
DOUGLAS FIR-LARCH	#1	STUD	STANDARD

DOUGLAS FIR-LARCH

#1

STUD

STANDARD

SOUTHERN PINE

#1

STUD

STANDARD

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 135 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

CABLE 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" BRACE: 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.

GABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH	NO SPLICE	1X4 OR 2X3	2X4
LESS THAN 4' 0"			
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.

THIS DRAWING REPLACES DRAWING A11015E

REF ASCE-GAB11015

DATE 11/26/03

DRWG A11015EN1103

-ENG

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

ALPINE ENGINEERED PRODUCTS, INC.

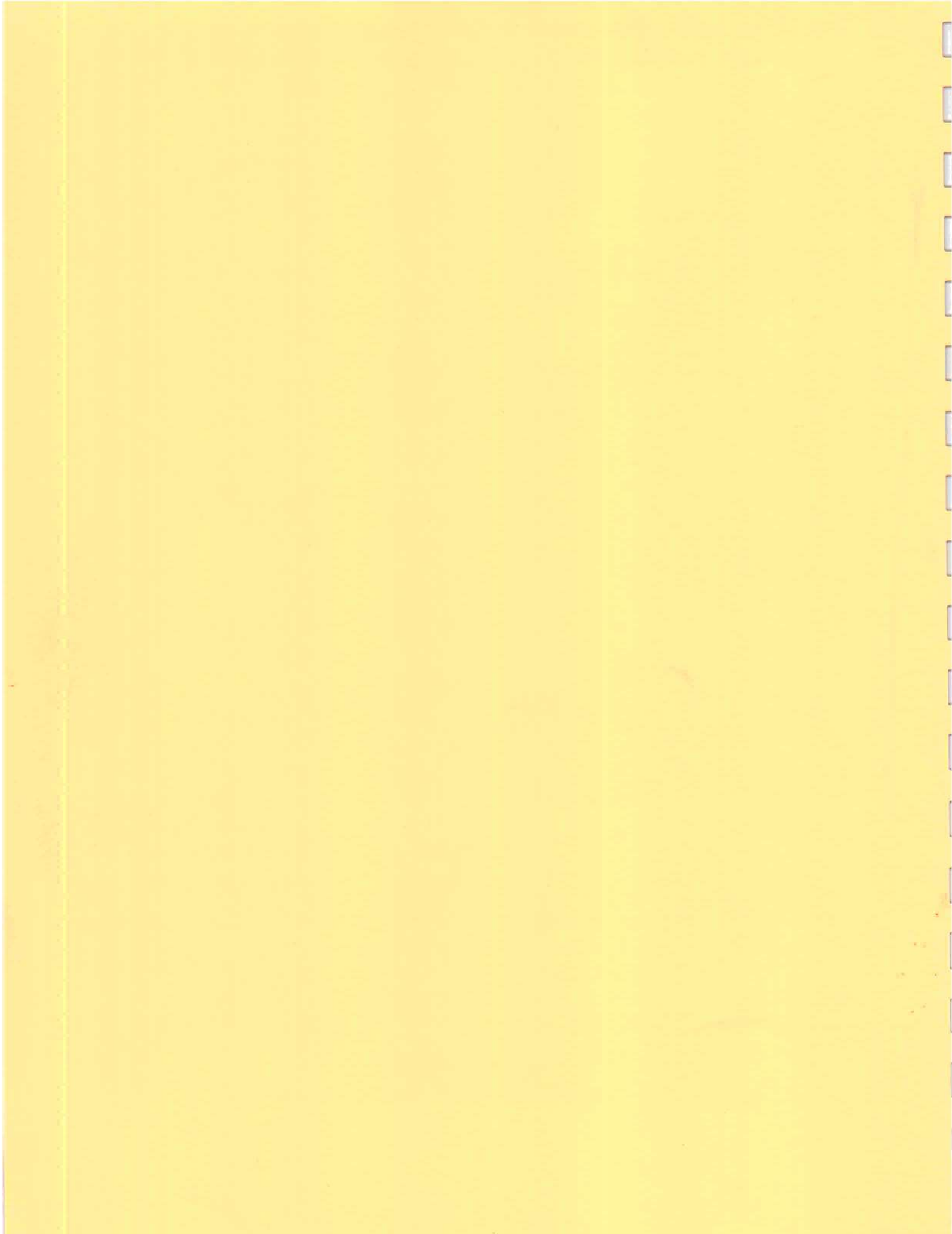
POMPANO BEACH, FLORIDA

ALPINE

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719 AND AITCA (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 COPY OF THIS DESIGN TO 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 THE TRUSS PLATE INSTITUTE'S TRUSSING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE 2003 IBC SPEC. BY AEP&P AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1664 (V/H/S/K) ASTM A653 GRADE 40/60 (V/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEX A3 OF TPI 1-2002 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.





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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

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

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☐	☒	All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☐	☒	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☐	☒	<u>Site Plan including:</u> 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.
☐	☒	<u>Wind-load Engineering Summary, calculations and any details required</u> Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, I_w, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m^2) to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional.
☐	☒	<u>Elevations including:</u> a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation
☐	☒	
☐	☒	
☐	☒	

- | | | |
|--------------------------|-------------------------------------|---|
| ☐ | ☒ | d) Location, size and height above roof of chimneys. |
| ☐ | ☒ | e) Location and size of skylights |
| ☐ | ☒ | f) Building height 23.8 |
| ☐ | ☒ | e) Number of stories 2 |
| | | Floor Plan including: |
| ☐ | ☒ | a) Rooms labeled and dimensioned. |
| ☐ | ☒ | b) Shear walls identified. |
| ☐ | ☒ | c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 (see attach forms). |
| ☐ | ☒ | d) Show safety glazing of glass, where required by code. |
| ☐ | ☒ | e) Identify egress windows in bedrooms, and size. |
| ☐ | ☒ | f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type). |
| ☐ | ☒ | g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails. |
| ☐ | ☒ | h) Must show and identify accessibility requirements (accessible bathroom) |
| | | Foundation Plan including: |
| ☐ | ☒ | a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing. |
| ☐ | ☒ | b) All posts and/or column footing including size and reinforcing |
| ☐ | ☒ | c) Any special support required by soil analysis such as piling |
| ☐ | ☒ | d) Location of any vertical steel. |
| | | Roof System: |
| ☐ | ☒ | a) Truss package including: |
| | | 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng. |
| | | 2. Roof assembly (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating) |
| ☐ | ☒ | b) Conventional Framing Layout including: |
| | | 1. Rafter size, species and spacing |
| | | 2. Attachment to wall and uplift |
| | | 3. Ridge beam sized and valley framing and support details |
| | | 4. Roof assembly (FBC 106.1.1.2) Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating) |
| | | Wall Sections including: |
| ☐ | ☒ | a) Masonry wall |
| | | 1. All materials making up wall |
| | | 2. Block size and mortar type with size and spacing of reinforcement |
| | | 3. Lintel, tie-beam sizes and reinforcement |
| | | 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details |
| | | 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation |
| | | 6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating) |
| | | 7. Fire resistant construction (if required) |
| | | 8. Fireproofing requirements |
| | | 9. Shoe type of termite treatment (termicide 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)

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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 (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiteicide 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)

see note 8

see note 9

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

Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment
- g) Arc Fault Circuits (AFCI) in bedrooms
- h) Exhaust fans in bathroom

HVAC information

- a) Energy Calculations (dimensions shall match plans)
- b) Manual J sizing equipment or equivalent computation
- c) Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

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

Private Potable Water

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

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THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.
2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)
4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is \$50.00
6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**
7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS –PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

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

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

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

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # (FOR STAFF USE ONLY)

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

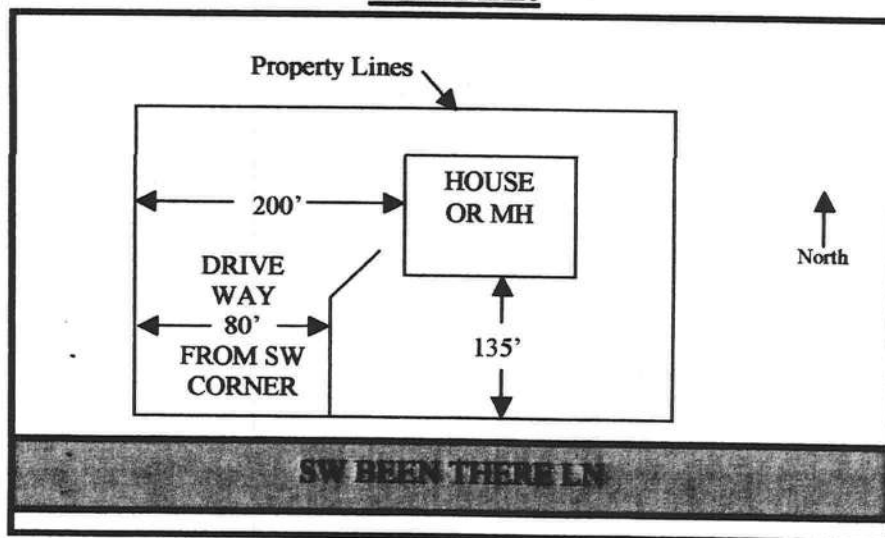
YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

THE REQUESTER WILL NEED THE FOLLOWING:

1. THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123") FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
 - a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
 - b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
 - c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

23870

(Soil Test)

December 23, 2005

Crawford Construction
P. O. Box 1330
Lake City, Florida 32056

Attention: Stephen Crawford

Reference: Proposed Service Residence
275 Scenic Court
Fort White, Florida
Cal-Tech Project No. 05-654

Dear Mr. Crawford,

Cal-Tech Testing, Inc. has performed a visual investigation of the site for the proposed Service residence in Fort White, Florida. Our work was planned in conjunction with and authorized by you.

Introduction

We understand you will construct a two-story, wood frame residence at the referenced site. Support for the residence is to be provided by conventional, shallow spread footings with stem walls, and the residence will have a slab-on-grade floor. The site is located at the crest of a small hill.

Foundation cuts had been excavated at the time of our investigation, and clayey soils were present in the bottoms of the foundation cuts for approximately 75% of the excavations. These clayey soils were believed to be active soils that could be detrimental to the residence.

Samples of the site soils were obtained from three corners of the building area, and these samples were tested for clay content and Atterberg Limits.

Findings

The clayey soils tested consist of very clayey sands and sandy clays containing 45.8% to 69.4% passing the No. 200 sieve. Plasticity index values for these soils range from 18.1% to 29.5%.

Discussion and Recommendations

Laboratory testing indicates the clayey soils at this site are slightly to moderately active and therefore could cause detrimental foundation or slab movement through shrinking or swelling of these soils with changes in their moisture content.

The local standard of care for residential construction in areas of active soil is to provide approximately 4 feet of separation between the bottoms of the foundations and the active soils. This separation is generally accomplished by excavation and replacement of the active soils, or by fill placement to raise the site, or by some combination of these methods. Providing this separation is however no guarantee that some foundation or slab movement will not occur, particularly when active clay soils remain below the replacement or fill soils.

An alternative method of construction is to embed the foundations in the active soils based upon the observation that moisture changes that cause shrink-swell behavior become less with depth.

For this residence we recommend the bottoms of the foundations be placed in the existing clayey soils at a minimum depth of 3 feet below the finished surface grade. We also recommend a foundation width on the order of 16 to 20 inches. Replacement soils placed at the edges of the stem walls should consist of the sandy clay soils excavated at the site. These sandy clay soils should be placed in maximum 9-inch, loose lifts, and each lift should be proof-compacted to a minimum of 95% of the modified Proctor maximum dry density. The final lift of sandy clay backfill should be graded such that storm water is directed away from the foundations.

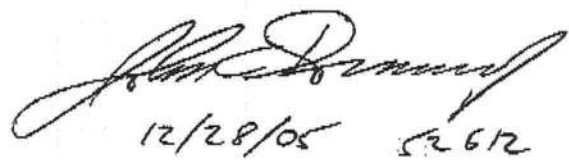
In slab areas a minimum of 2 feet of separation should be provided between clay soils and the bottoms of the slabs. Some excavation of the existing clayey soils may be required to provide this separation. The soil providing separation may consist of relatively clean sand or of clayey sand containing less than about 30% passing the No. 200 sieve. This soil should be proof-compacted to a minimum of 95% of the modified Proctor maximum dry density to a depth of 2 feet below the bottoms of slabs.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.



Linda Creamer
President / CEO


12/28/05 52612

John C. Dorman, Jr., PhD, PE
Geotechnical Engineer



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

SUMMARY OF LABORATORY TEST RESULTS

PROJECT: Service Residence

Fort White, Florida

CLIENT: Crawford Construction

JOB NO.: 05-654

REPORT NO.: 1

DATE: 12/23/05

BORING NO.	SAMPLE DEPTH (ft.)	SOIL DESCRIPTION	SAMPLE TYPE*	NATURAL MOISTURE (%)	ATTERBERG LIMITS		COEFFICIENT OF PERMEABILITY (feet/day)	SIEVE ANALYSIS (% passing)						AASHTO SOIL CLASSIFICATION	UNIFIED SOIL CLASSIFICATION
					LIQUID LIMIT (%)	PLASTICITY INDEX (%)		No. 4	No. 10	No. 40	No. 80	No. 100	No. 200		
NE		Dark Tan and Red, Sandy Clay			52	29.5							68.6		CH
SE		Dark Tan and Orange, Sandy Clay			47.7	18.1							69.4		CL
SW		Orange and Tan, Very Clayey Sand			41.1	23.4							45.8		SC

*SS- Split Spoon
ST- Shelby Tube
A- Auger

Reviewed By:

Date: 12/23/05

Florida Registration No.:

52612

CAL-TECH TESTING, INC.

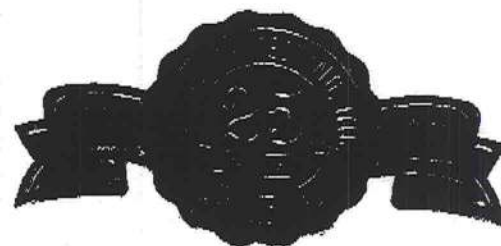
P.O. Box 1625
Lake City, FL 32056
386-755-3633

CAL-TECH INVOICE

DATE	INVOICE NO:
12/28/2005	27805

BILL TO CLIENT

Crawford Construction
P.O. Box 1330
Lake City, FL 32056
ATTN: Steven Crawford



TERMS	DUE DATE	JOB NO
Upon Receipt	1/7/2006	05-654

ITEM	TYPE TEST	LAB NO.	QTY	REPORT NO.	UNIT COST	EXTENSION
	Proposed Service Residence, 275 Scenic Court, Ft. White, FL					
Mob.	Mobilization		1		50.00	50.00
Att. Limits	Atterberg Limits/Wash 200		3		65.00	195.00
Eng. Time	Engineering Review		2.5		100.00	250.00

All Invoices are due Upon Receipt and subject to 18% finance Charge after 30 Days.

TOTAL DUE \$495.00

Columbia County Building Permit Application

758-9500

Revised 9-23-04

For Office Use Only Application # OS11-36 Date Received 11/9/05 By JW Permit # 8911/23570
 Application Approved by - Zoning Official BLK Date 11-11-05 Plans Examiner OK JTH Date 11-12-05
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments _____
CL # - 6919 -

Applicants Name Stephen Crawford Phone 386-755-5068
 Address P.O. Box 1330 Lake City, FL 32056
 Owners Name Adam & Kim Service Phone 386-497-3733
 911 Address 275 S.W. Scenic Ct. Ft. White, FL 32038
 Contractors Name Stephen Crawford Const., Inc. Phone 386-755-5068
 Address P.O. Box 1330 Lake City, FL 32056
 Fee Simple Owner Name & Address Adam & Kim Service 275 S.W. Scenic Ct. Ft. White, FL 32038
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address N/A
 Mortgage Lenders Name & Address Campus USA Credit Union 2511 NW 41st St. Gainesville, FL 32646
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 08-65-16E 03801-000 Estimated Cost of Construction \$156,500.00
 Subdivision Name N/A NOT THE CORRECT NUMBER Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions 475 to SR 238. Turn right to Junction Rd. Make right on Junction. Go to Collins Rd. & Make right turn. First right on Collins Rd. is property.
 Type of Construction House Number of Existing Dwellings on Property mobile home will be moved
 Total Acreage 5.01 Lot Size 300' x 500' Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 75' Side 100' Side 150' Rear 360'
 Total Building Height 23'-8" Number of Stories 2 Heated Floor Area 1864 Roof Pitch 6/12
PORCHES 564 GARAGE 685 TOTAL 3113

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

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

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

Stephen Crawford
 Owner Builder or Agent (Including Contractor)

Stephen Crawford
 Contractor Signature
 Contractors License Number RR 0067266
 Competency Card Number _____
 NOTARY STAMP/SEAL

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this _____ day of _____ 20____.
 Personally known _____ or Produced Identification _____

Notary Signature

AROL A. JONES
39 SW LANDO PI.
WHITE, FL. 32038
17-65-16-03842-
050

Inst: 2005021434 Date: 09/01/2005 Time: 15:42
Doc Stamp-Deed : 0.70
MK DC, P. DeWitt Cason, Columbia County B:1057 P:242

SPACE ABOVE THIS LINE FOR PROCESSING DATA SPACE ABOVE THIS LINE FOR RECORDING DATA

This Warranty Deed, Made the 1st day of September, 2005, by
P. Stephen Jones and Carol Ann Jones
hereinafter called the Grantor, to Adam T. Service and Kimberly L. Service
whose post office address is 8186 SW Old Wire Rd, Ft. White, FL. 32038
hereinafter called the Grantee.

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations wherever the context so admits or requires.)

Witnesseth, That the Grantor, for and in consideration of the sum of \$ 10.00 and other
valuable considerations, receipt whereof is hereby acknowledged hereby grants, bargains, sells, aliens, remises,
releases, conveys and confirms unto the Grantee all that certain land, situate in Columbia
County, State of Florida, viz:

DESCRIPTION:
BEGIN AT THE NE CORNER OF SE 1/4 OF SW 1/4 OF SECTION 8, TOWNSHIP 6 SOUTH, RANGE 16
EAST, COLUMBIA COUNTY, FLORIDA AND RUN S.89°02'55"W., ALONG THE NORTH LINE THEREOF,
138.00 FEET; THENCE S.01°13'36"E., 448.43 FEET; THENCE S.50°32'51"E., 165.73 FEET; THENCE
N.74°02'45"E., 296.34 FEET; THENCE N.01°53'44"E., 482.09 FEET TO THE NORTH LINE OF THE SW
1/4 OF THE SE 1/4 OF SAID SECTION 8; THENCE S.88°34'34"W., ALONG SAID NORTH LINE, 299.65
FEET TO THE POINT OF BEGINNING. CONTAINING 5.01 ACRES, MORE OR LESS

Together, with all the tenements, hereditaments and appurtenances thereto belonging or in anywise
appertaining. To Have and to Hold, the same in fee simple forever.

And the Grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee
simple; that the grantor has good right and lawful authority to sell and convey said land, and hereby warrants
the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said
land is free of all encumbrances, except taxes accruing subsequent to December 31.

In Witness Whereof, the said Grantor has signed and sealed these presents the day and year first above
written.

Signed, sealed and delivered in the presence of:

Betsy Roberts
Witness Signature (as to first Grantor)

Betsy Roberts
Printed Name

Kristine Prevatt
Witness Signature (as to first Grantor)

Kristine Prevatt
Printed Name

Betsy Roberts
Witness Signature (as to Co-Grantor, if any)

Betsy Roberts
Printed Name

P. Stephen Jones
Grantor Signature

P. Stephen Jones
Printed Name

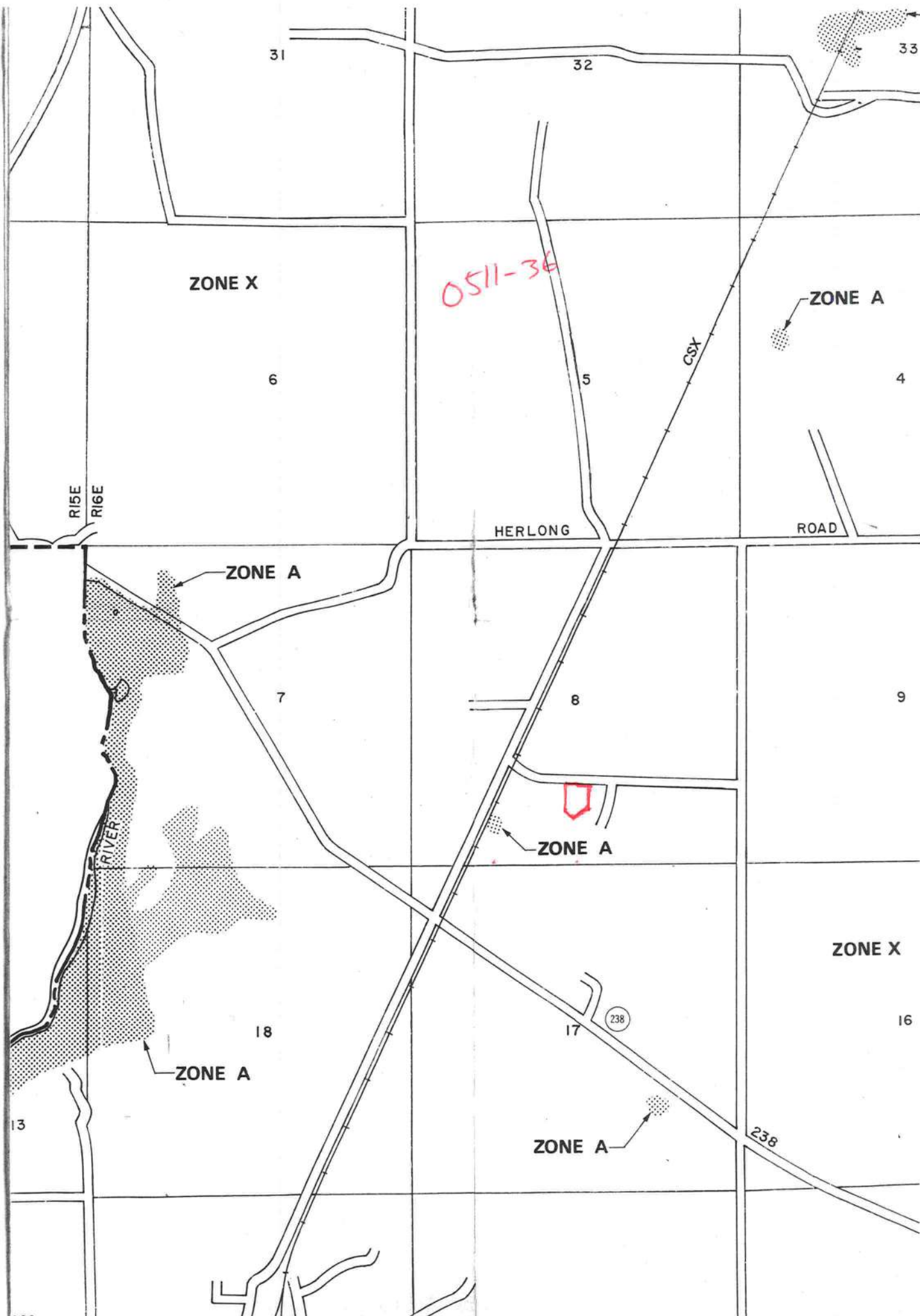
136 SW LANDO PI. Ft. White
Post Office Address

FL. 32038

Carol A. Jones
Co-Grantor Signature (if any)

Carol A. Jones
Printed Name

136 SW LANDO PI. Ft. White



NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvements will be made to certain real property, and in accordance with Sec. 713, Fla. Stat. the following information is provided in this NOTICE OF COMMENCEMENT.

DESCRIPTION OF PROPERTY:

TOWNSHIP 6 SOUTH, RANGE 16 EAST

Section 8: Begin at the Northeast corner of the SE 1/4 of SW 1/4 of said section 8 and run S. 89 deg. 02' 55" W. along the North line thereof 139.00 feet; thence S. 01 deg. 13' 36" E. 448.43 feet; thence S. 50 deg. 35' 51" E. 165.73 feet; thence N. 74 deg. 02' 45" E. 296.34 feet; thence N. 01 deg. 53' 44" E. 482.09 feet to the North line of the SW 1/4 of SE 1/4 of said section 8; thence S. 88 deg. 34' 34" W. along said North line 299.65 feet to the point of beginning. Containing 5.01 acres, more or less. Lying in Columbia County, Florida.

DESCRIPTION OF IMPROVEMENTS: Residence

OWNER AND ADDRESS: Adam T. Service and Kimberly L. Service
275 SW Scenic Court
Fort White, Florida 32038

OWNERS' INTEREST IN PROPERTY: Fee Simple

FEE SIMPLE TITLE HOLDER: Owner SURETY AND ADDRESS: None

AMOUNT OF BOND: N/A

CONTRACTOR AND ADDRESS: Stephen Crawford Construction, Inc.
991 SW Charleston Court
Lake City, Florida 32025

LENDER: Campus USA Credit Union
2511 NW 41st Street
Gainesville, Florida 32646

Name and address of person within the State of Florida designated by owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)(7), Florida Statutes: The Owner.

In addition to himself, Owner designates THE LENDER to receive a copy of the Notice of Commencement.

Inst: 2005025105 Date: 10/10/2005 Time: 09:52
DC, P. Dewitt Cason, Columbia County B: 1061 P: 698

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: service	Builder: stephen crawford
Address:	Permitting Office: <i>col m</i>
City, State: ,	Permit Number: 23870
Owner:	Jurisdiction Number: 221000
Climate Zone: North	

1. New construction or existing New ☐ 2. Single family or multi-family Single family ☐ 3. Number of units, if multi-family 1 ☐ 4. Number of Bedrooms 3 ☐ 5. Is this a worst case? Yes ☐ 6. Conditioned floor area (ft²) 1864 ft² ☐ 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor: Description Area (or Single or Double DEFAULT) 7a. (Dble Default) 308.0 ft² ☐ b. SHGC: 7b. (Clear) 308.0 ft² ☐ (or Clear or Tint DEFAULT) 8. Floor types a. Slab-On-Grade Edge Insulation R=4.0, 128.0(p) ft ☐ b. N/A ☐ c. N/A ☐ 9. Wall types a. Frame, Wood, Exterior R=13.0, 1612.0 ft² ☐ b. Frame, Wood, Exterior R=13.0, 837.0 ft² ☐ c. N/A ☐ d. N/A ☐ e. N/A ☐ 10. Ceiling types a. Under Attic R=30.0, 1027.0 ft² ☐ b. N/A ☐ c. N/A ☐ 11. Ducts a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6.0, 222.0 ft ☐ b. N/A ☐	12. Cooling systems a. Central Unit Cap: 36.0 kBtu/hr ☐ SEER: 11.00 ☐ b. N/A ☐ c. N/A ☐ 13. Heating systems a. Electric Heat Pump Cap: 35.0 kBtu/hr ☐ HSPF: 7.40 ☐ b. N/A ☐ c. N/A ☐ 14. Hot water systems a. Electric Resistance Cap: 50.0 gallons ☐ EF: 0.92 ☐ b. N/A ☐ c. Conservation credits ☐ (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits ☐ (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)
--	--

Glass/Floor Area: 0.17

Total as-built points: 29451

Total base points: 29696

PASS

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

PREPARED BY: SUNCOAST INSULATORS

DATE: 10-10-05

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1864.0	20.04	6723.8	Double, Clear	E	2.0	6.0	134.0	42.06	0.85	4779.9
				Double, Clear	N	2.0	6.0	60.0	19.20	0.90	1036.9
				Double, Clear	W	2.0	6.0	114.0	38.52	0.85	3730.3
				As-Built Total:		308.0			9547.1		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1612.0	1.50	2418.0		
Exterior	2449.0	1.70	4163.3	Frame, Wood, Exterior	13.0		837.0	1.50	1255.5		
Base Total:				As-Built Total:		2449.0			3673.5		
DOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	20.0	2.40	48.0	Exterior Insulated			40.0	4.10	164.0		
Exterior	40.0	6.10	244.0	Adjacent Insulated			20.0	1.60	32.0		
Base Total:				As-Built Total:		60.0			196.0		
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1027.0	1.73	1776.7	Under Attic	30.0		1027.0	1.73 X 1.00	1776.7		
Base Total:				As-Built Total:		1027.0			1776.7		
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	128.0(p)	-37.0	-4736.0	Slab-On-Grade Edge Insulation	4.0		128.0(p)	-36.70	-4697.6		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:		128.0			-4697.6		
INFILTRATION Area X BSPM = Points							Area X SPM = Points				
1864.0 10.21 19031.4							1864.0 10.21 19031.4				

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 27251.3				Summer As-Built Points: 29527.2						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
27251.3	0.4266		11625.4	(sys 1: Central Unit 36000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 29527 1.00 (1.09 x 1.147 x 1.00) 0.310 1.000 11454.0 29527.2 1.00 1.250 0.310 1.000 11454.0						

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X WPM X WOF = Points				
.18	1864.0	12.74	4274.5	Double, Clear	E	2.0	6.0	134.0	18.79	1.06	2670.7
				Double, Clear	N	2.0	6.0	60.0	24.58	1.00	1481.6
				Double, Clear	W	2.0	6.0	114.0	20.73	1.04	2464.0
As-Built Total:				308.0 6616.3							
WALL TYPES											
Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1612.0	3.40		5480.8	
Exterior	2449.0	3.70	9061.3	Frame, Wood, Exterior	13.0		837.0	3.40		2845.8	
Base Total:				2449.0		9061.3		As-Built Total:			
						2449.0		8326.6			
DOOR TYPES											
Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	20.0	11.50	230.0	Exterior Insulated	40.0 8.40 336.0						
Exterior	40.0	12.30	492.0	Adjacent Insulated	20.0 8.00 160.0						
Base Total:				60.0		722.0		As-Built Total:			
						60.0		496.0			
CEILING TYPES											
Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1027.0	2.05	2105.3	Under Attic	30.0		1027.0	2.05 X 1.00		2105.3	
Base Total:				1027.0		2105.3		As-Built Total:			
						1027.0		2105.3			
FLOOR TYPES											
Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	128.0(p)	8.9	1139.2	Slab-On-Grade Edge Insulation	4.0		128.0(p)	8.45		1081.6	
Raised	0.0	0.00	0.0								
Base Total:				1139.2		128.0		As-Built Total:			
						128.0		1081.6			
INFILTRATION											
Area X BWPM = Points				Area X WPM = Points							
1864.0 -0.59 -1099.8				1864.0 -0.59 -1099.8							

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		16202.6	Winter As-Built Points:				17526.1	
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Heating Points	
16202.6	0.6274	10165.5	(sys 1: Electric Heat Pump 35000 btuh ,EFF(7.4) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 17526.1 1.000 (1.069 x 1.169 x 1.00) 0.461 1.000 10092.5 17526.1 1.00 1.250 0.461 1.000 10092.5					

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit	= Total Multiplier
3		2635.00	7905.0	50.0	0.92	3		1.00	2635.00	1.00 7905.0
				As-Built Total:						
				7905.0						

CODE COMPLIANCE STATUS

BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
11625		10166		7905	29696	11454		10093		7905	29451

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 82.1

The higher the score, the more efficient the home.

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1864 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 35.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 308.0 ft ²		HSPF: 7.40
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 308.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=4.0, 128.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A		b. N/A	EF: 0.92
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 1612.0 ft ²	DHP-Dedicated heat pump)	
b. Frame, Wood, Exterior	R=13.0, 837.0 ft ²	15. HVAC credits	
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 1027.0 ft ²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 222.0 ft		
b. N/A			

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

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



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

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCSB v4.0)



RIGHT-J LOAD AND EQUIPMENT SUMMARY Entire House

Touchstone Heating and Air, Inc.

Job: Adam & Kim Service
10/11/05

490 SE 3rd Ave., Lake Butler, FL 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Stephen Crawford
P.O. Box 1330, Lake City, FL 32056
Phone: 386-755-5068 Fax: 386-758-9600

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Building heat loss	46594 Btuh
Ventilation air	7 cfm
Ventilation air loss	280 Btuh
Design heat load	46874 Btuh

Infiltration

Method	Simplified	
Construction quality	Average	
Fireplaces	0	
Area (ft²)	Heating 1864	Cooling 1864
Volume (ft³)	15844	15844
Air changes/hour	0.10	0.20
Equiv. AVF (cfm)	26	53

Heating Equipment Summary

Make Trane
Trade G. XE 1000 Weathertron
2TWB0036A1000A

Efficiency	8.3 HSPF
Heating input	
Heating output	32600 Btuh @ 47°F
Heating temp rise	26 °F
Actual heating fan	1150 cfm
Heating air flow factor	0.025 cfm/Btuh

Space thermostat

Sensible Cooling Equipment Load Sizing

Structure	24995 Btuh
Ventilation	935 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.97
Total sens. equip. load	25152 Btuh

Latent Cooling Equipment Load Sizing

Internal gains	230 Btuh
Ventilation	1753 Btuh
Infiltration	1851 Btuh
Total latent equip. load	3834 Btuh

Total equipment load	28986 Btuh
Req. total capacity at 0.70% SHR	3.0 ton

Cooling Equipment Summary

Make Trane
Trade G. XE 1000 Weathertron
2TWB0036A1000A
TWG036A140

Efficiency	10.0 SEER
Sensible cooling	23800 Btuh
Latent cooling	10200 Btuh
Total cooling	34000 Btuh
Actual cooling fan	1150 cfm
Cooling air flow factor	0.046 cfm/Btuh

Load sensible heat ratio	67 %
--------------------------	------

Boldface values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

CLYATT WELL DRILLING, INC.

Established in 1971

Post Office Box 180

Worthington Springs, Florida 32897

Phone (386)496-2622 FAX (386)496-4640

WELL DESCRIPTION

DESCRIPTION DATE

1/27/2004

CUSTOMER NAME AND ADDRESS

Stephen Crawford Construction
Attn.: Stephen Crawford
991 Southwest Charleston Court
Lake City, Florida 32025

DESCRIPTION OF WORK

4" Well and Pump
Adam + Kim Service

DESCRIPTION

4" Well

1 HP Submersible Pump

1-1/4" Galvanized Drop Pipe

14/3 Submersible Pump Wire With Ground

WF255 (220 Gallon Equivalent) Tank

4 X 1-1/4 Well Seal

Pressure Relief Valve

Controls & Fittings

THANK YOU FOR YOUR BUSINESS! This document is provided to give a description of the well to be constructed on your behalf. All materials remain the property of Clyatt Well Drilling, Inc., until paid for in full. Clyatt Well Drilling, Inc., does not agree to find or develop water, nor does it represent, warrant or guarantee the quality or kind of water which may be encountered. If it is necessary to install water filters, the owner agrees it is his/her responsibility to pay the cost. Right to repossess is granted if payment for well is not made.

Return to: (enclose self-addressed stamped envelope)

This instrument prepared by:

13A Sukaredo P1.

Fr. White, FI. 32034
17-65-16-03842-

Folio Number(s):

Copyright © 1998

Inst: 2005021434 Date: 09/01/2005 Time: 15:42

Doc Stamp-Deed : 0.70

DC, P. DeWitt Cason, Columbia County B:1057 P:242

SPACE ABOVE THIS LINE FOR PROCESSING DATA

- SPACE ABOVE THIS LINE FOR RECORDING DATA

This Warrant Deed, Made the 1st day of September 2005, by
P. Stephen Jones and Carol Ann Jones
hereinafter called the Grantor, to Adam T. Seervice and Kimberly L. Seervice
whose post office address is 8186 SW Old Wire Rd, Ft. White, FL 32038
hereinafter called the Grantee.

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth, That the Grantor, for and in consideration of the sum of \$ 10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee all that certain land, situate in Columbia County, State of Florida, viz:

DESCRIPTION

DESCRIPTION
 BEGIN AT THE NE CORNER OF SE 1/4 OF SW 1/4 OF SECTION 8, TOWNSHIP 6 SOUTH, RANGE 16
 EAST, COLUMBIA COUNTY, FLORIDA AND RUN S 89° 34' 37" W, ALONG THE NORTH LINE THEREOF,
 165.73 FEET; THENCE S 01° 13' 36" E, 148.43 FEET; THENCE S 10° 25' 11" E, 165.73 FEET; THENCE
 S 89° 34' 37" W, 296.34 FEET; THENCE N 87° 34' 15" E, 402.60 FEET TO THE NORTH LINE OF THE SW
 1/4 OF THE SE 1/4 OF SAID SECTION 8; THENCE S 80° 34' 37" W, ALONG SAID NORTH LINE, 299.65
 FEET TO THE POINT OF BEGINNING, CONTAINING 5.01 ACRES, MORE OR LESS.

Together, with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining. To Have and to Hold, the same in fee simple forever.

And the Grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31,

In Witness Whereof, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of:

butcher Roberts

Witness Signature _____ (to first creator)

Betty Roberts

Revista

Witness Signature (in left margin) *K. S. 7/11*

Printed Name: John Paul

Witness Signature (as to Co-Grantor, _____)

Blessy Robert

A. D. H. H. H.

Witness Signature (as to Co-Greeter:)

Printed Name Elmer

STATE OF FLORIDA
COUNTY OF Col

COUNTY OF COV
Paul Steinhilber

known to me to be the person

executed the same, and an

following type of identification

Graphic Signature

P. Stephen Jones

B9 SW Hands A. Ft. White

Post Office Address: FI-32098

100

Co-Grantor Signature, (if any)

CAROL A. Jones

139 S.W. Laredo Pl Ft. White

Post Office Address FI. 32038

I hereby Certify that on this day, before me, an officer duly authorized to administer oaths and take acknowledgments, personally appeared

known to me to be the person _____ described in and who executed the foregoing instrument, who acknowledged before me and _____
executed the same, and an oath was not taken. (Check one: ☐ Said person(s) is/are personally known to me. ☒ Said person(s) provided the
following type of identification: Florida DL Lic

021136

STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ORAL CONTRACEPTIVE SYSTEM CONSTRUCTION PERMIT

Permit Application Number: 021136

Permit Title: _____

Permit Fee: \$100.00

11/1

By: *[Signature]*
For: *[Signature]*
Date: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

021136
021136

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

0511-36

Reference to: Build permit application Number:

Stephen Crawford Owner Adam & Kim Service 275 SW Scenic Ct.

On the date of November 15, 2005 application 0511-36 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0511-36 when making reference to this application.

✓ 1. Please submit an approved copy of the Columbia County Environmental Health Department site plan application for an on site waste water septic system. *Rec'd 11.16.05*

2. Please submit a site plan showing the dimensions of lot, dimensions of building set backs, location of all other buildings on lot, well and septic tank if applicable, and all utility easements. Provide a full legal description of property.

3. On the foundation plan show the interior load bearing foundation (F-4 interior bearing footing).

✓ 4. Please verify that one window in each bedroom on the second floor will comply with the FRC-2004 section R310.1.1 Minimum opening area. All emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (0.530 m²). R310.1.2 Minimum opening height: The minimum net clear opening height shall be 24 inches (610 mm). R310.1.3 Minimum opening width: The minimum net clear opening width shall be 20 inches (508 mm).

5. Please show a detail of the stairwell to the second floor to meet the code requirements of the FRC-2004 sections R311.2.2 Under stair protection: Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with ½-inch (12.7 mm) gypsum board. R311.5.1 Width: Stairways shall not be less than 36 inches (914 mm) in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches (114 mm) on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31.5 inches (787 mm) where a handrail is installed on one side and 27 inches (698 mm) where handrails are provided on both sides. R311.5.3 Stair treads and risers.

R311.5.3.1 Riser height: The maximum riser height shall be 7¾ inches (196 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm):

R311.5.3.2 Tread depth: The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the greatest winder tread depth at the 12 inch (305 mm) walk line shall not exceed the smallest by more than 3/8 inch (9.5 mm).

6. Please show compliance with the FBC-2004 section R322.1.1: All new single-family houses, duplexes, triplexes, condominiums and townhouses shall provide at least one bathroom, located

with maximum possible privacy, where bathrooms are provided on habitable grade levels, with a door that has a 29-inch (737 mm) clear opening. However, if only a toilet room is provided at grade level, such toilet rooms shall have a clear opening of not less than 29 inches (737 mm).

7. Please have Mr. Mark Disosway to size and show the design method to anchor the over head garage door opening beam to the jack and king studs and the required anchoring devices to provide for the prescribed wind uplift requirement of the trusses which this beam will support.

8. Show the method of the FRC-2004 section R602.8 Fireblocking required: Fireblocking shall be provided to cut off all concealed draft openings (both vertical and horizontal) and to form an effective fire barrier between stories, and between a top story and the roof space. Fireblocking shall be provided in wood-frame construction in the following locations.

1. In concealed spaces of stud walls and partitions, including furred spaces and parallel rows of studs or staggered studs; as follows:

1.1. Vertically at the ceiling and floor levels.

1.2. Horizontally at intervals not exceeding 10 feet (3048 mm).

2. At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cove ceilings.

3. In concealed spaces between stair stringers at the top and bottom of the run. Enclosed spaces under stairs shall comply with Section R311.2.2.

4. At openings around vents, pipes, and ducts at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion.

9. Please indicate the type material and thickness size to be used for the second floor decking material, along with the nail size and attachment pattern.

10. Show one additional smoke alarm located within the master bedroom.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

6. The jacket type should be used for the second floor
decking relative to the rail size and attachment pattern
to show one additional make item located within the master bedroom

Thank you

Joe Hahnberger
Plan Examiner
Colorado County Building Department

COLUMBIA COUNTY, FLORIDA

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 08-6S-16-03801-007

Building permit No. 000023870

Use Classification SFD/UTILITY

Fire: 5.92

Permit Holder STEPHEN CRAWFORD

Waste: 12.25

Owner of Building ADAM & KIM SERVICE

Total: 18.17

Location: 275 SW SCENIC COURT, FT. WHITE, FL

Date: 09/20/2006

Harry Dicko

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



