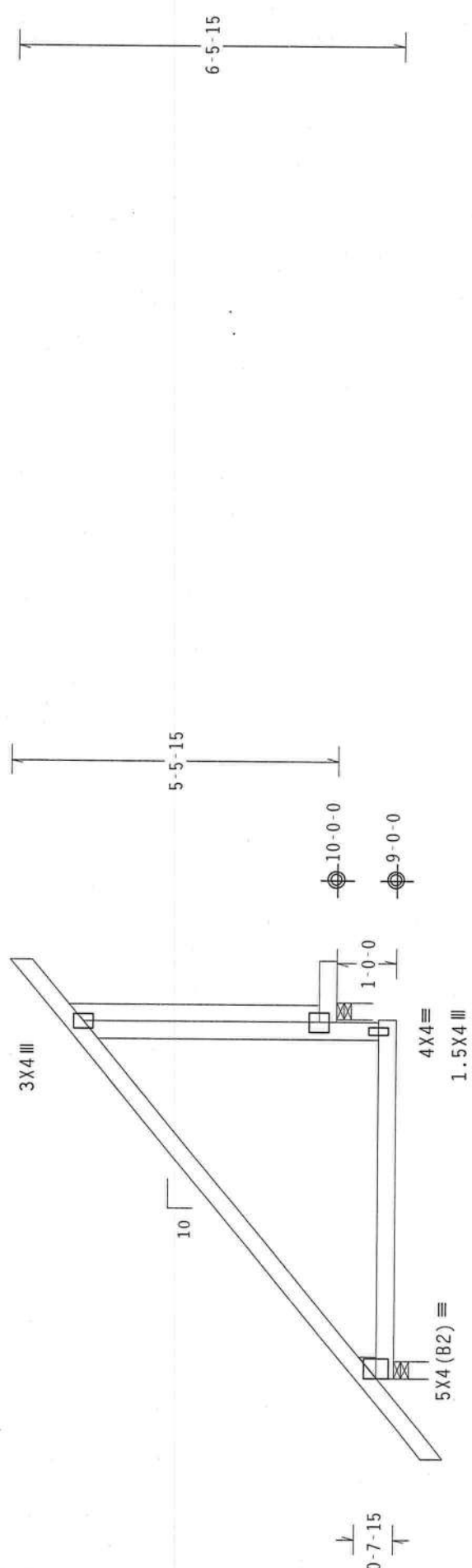


110 mph wind, 12.02 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



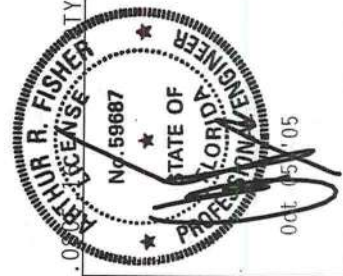
$\angle 1-4-0 \searrow$
 $\swarrow 7-0-0$ Over 2 Supports
 $\swarrow 0-8-8$

$R=358 \quad U=180 \quad W=3.5"$
 $R=339 \quad U=303 \quad W=3.5"$

PLT TYP.	Wave	Design Crit: TPI-2002 (STD) Cq/RT=1.00 (1
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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (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 FABRICATING OR INSTALLING THE TRUSS. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATING OR INSTALLING THE TRUSS, INCLUDING BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION) AND THE ALPINE CONNECTOR PLATES ARE MADE OF 20X18/18GA (9/16X1/8) ASTM A663 GRADE 40/50 (10, 1/8X1/8) GALV. STEEL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, PERMANENT DIMENSIONS 1600-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. A SEAL ON 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 ANS/TP11 SEC. 2.

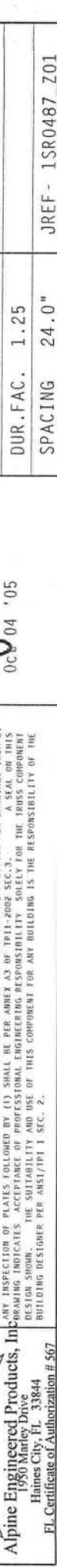


2	FL/-/4/-/-/R/-	Scale = .375" / Ft.
TC LL	20.0 PSF	REF R487 -- 97456
TC DL	10.0 PSF	DATE 10/05/05
BC DL	10.0 PSF	DRW HCURS487 05278001
BC LL	0.0 PSF	HC-ENG DAL/AF *
TOT.LD.	40.0 PSF	SEQN- 41253
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SR1487 Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Lt Wedge 2x4 SP #3:
110 mph wind, 8.47 ft mean hgt, ASCE 7-98, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0
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.

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



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****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, 583 MONTERO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR THE LATEST RECOMMENDED 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.

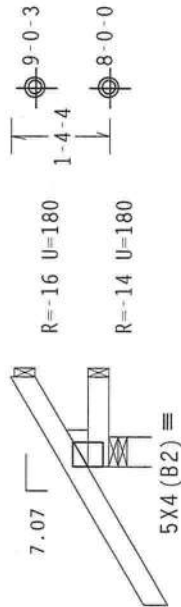
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 70/10/16GA (H/H/S/K) ASTM A653 GRADE 40/60 (H, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-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.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
:Lt Wedge 2x4 SP #3:

Hipjack supports 0-10-8 setback jacks with no webs.

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.

1110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



1-10-10

1-2-14 Over 3 Supports

R=96 U=180 W=4.95"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

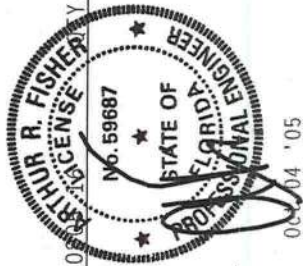
7.04.03

FL 1-141-1-1R1-

Scale = .375"/Ft.

WARNING: THOUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 D'ORFIO RD., SUITE 200, MADISON, WI 53719, AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 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 ENGINEERS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1: ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGN SPEC. BY ACPA) AND TP1: ALPINE CONNECTOR PLATES ARE MADE OF 16GA. STEEL. THE TRUSS DESIGN SPEC. SHALL BE IN FULL COMPLIANCE WITH THE 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 OF TP1-2002-SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT OF THE BUILDING. THE USE OF THIS SEAL FOR ANY OTHER USE OF THIS CONSENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANNEX A OF TP1-2002-SEC.3.



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

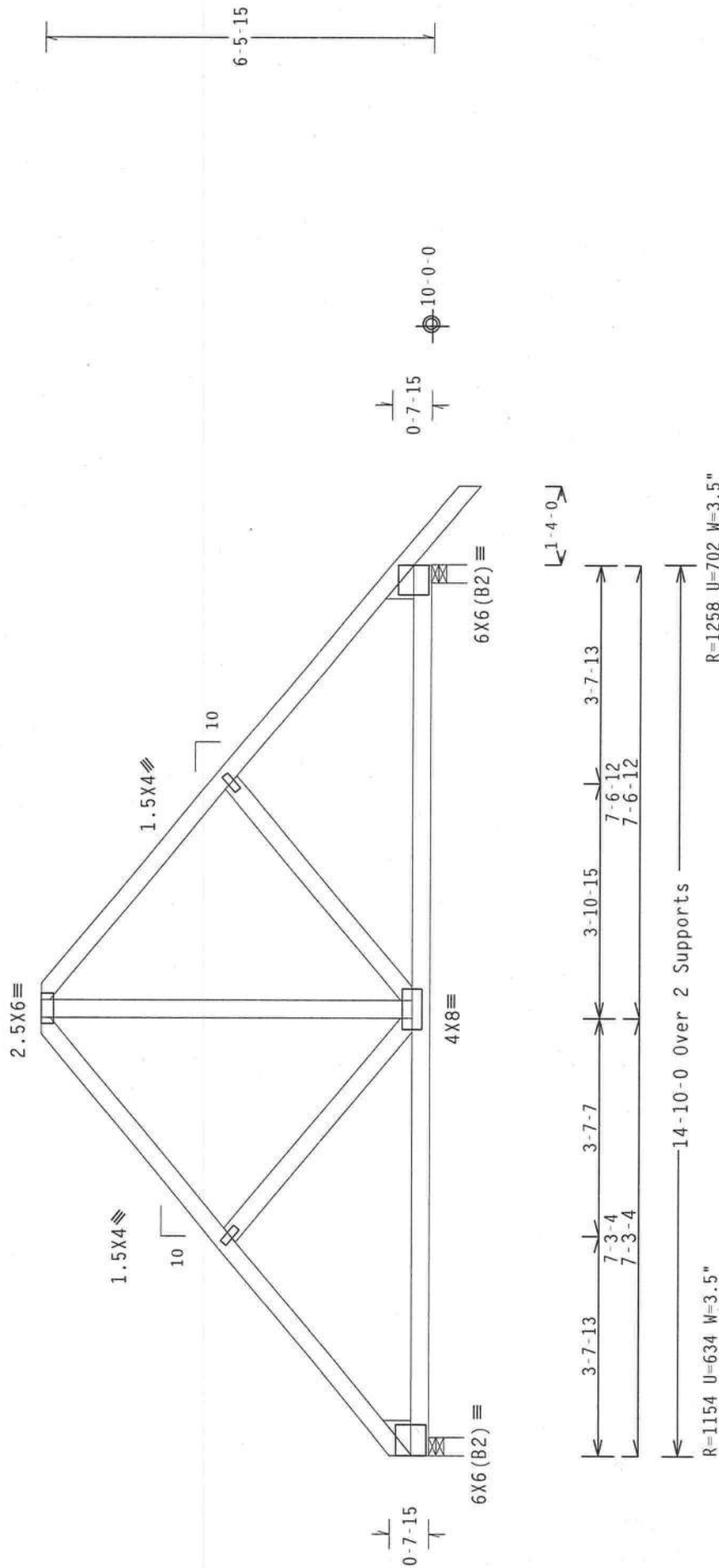
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-4-0 overhang.
End jacks have 7-0-0 setback with 0-0-0 cant and 1-4-0 overhang. Right
side jacks have 7-0-0 setback with 0-0-0 cant and 1-4-0 overhang.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located
anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0
psf.

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

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

7.04.08

TY:1

FL/-/4/-/-R/-

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'AMORE DR., SUITE 200, MADISON, WI 53719) AND NCTA (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. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS. 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 NDS (NATIONAL DESIGN SPEC. BY AIA) AND TPI ALPINE CONNECTOR PLATES ARE MADE OF 2010/160A (4-H/5-X) ASTM A653 GRADE 40/60 (H, R/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.



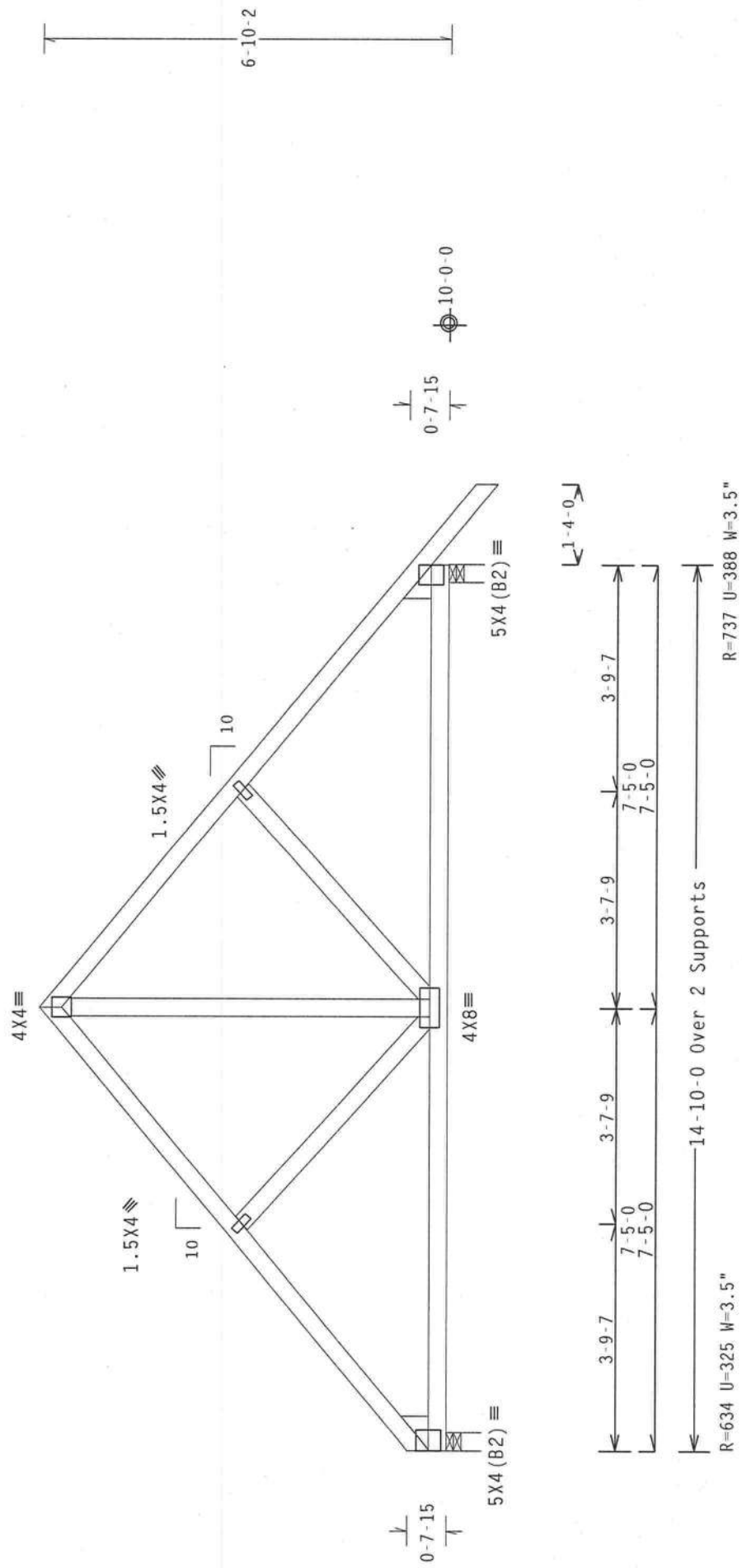
Alpine Engineered Products, Inc.
1950 Main Drive
Haines City, FL 33844
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R487--	83105
TC DL	10.0 PSF	DATE	10/03/05	
BC DL	10.0 PSF	DRW	HCUSR487	05276092
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEQN-	11868	
DUR.FAC.	1.25			
SPACING	SEE ABOVE	JREF-	1SR0487_Z01	

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2::Rt Wedge 2x6 SP #2:

110 mph wind, 13.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

7.04.03

Scale = .375"/Ft.

TC LL	20.0 PSF	REF	R487 -- 83106
TC DL	10.0 PSF	DATE	10/03/05
BC DL	10.0 PSF	DRW	HCUSR487 05276067
BC LL	0.0 PSF	HC-ENG	DF/AF
TOT.LD.	40.0 PSF	SEQN	11871
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1SR0487_Z01



****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'ORFORD 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, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

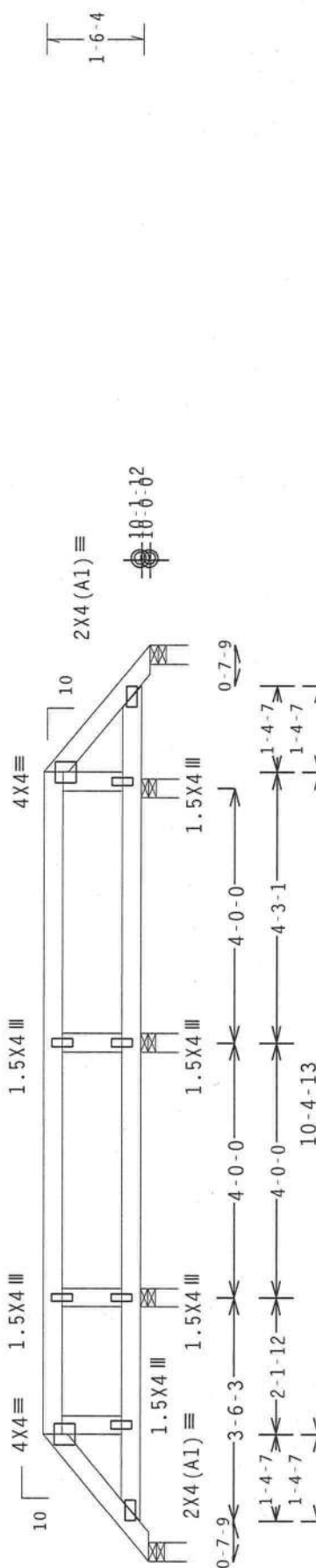
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. IS NOT RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLER. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AREA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (4-11/16) ASTM A653 GRADE 40/60 IN. 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.

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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 COMPONENTS IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS WILL BE AT THE INSTALLING CONTRACTOR'S RISK. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. (NDS) AND THE NDS PERMITTING CONNECTOR PLATES MADE OF 20X10/16GA OR 20X8/16GA (U.S. ASTM A575 GRADE 40/50 (IN K/HS)) GALV. STEEL PLATES TO EACH FACE OF TRUSS AND (U.S. U/S/USE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A-2). IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TP11-2002 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 ANTI/TP1 1 SEC. 2.



A circular professional engineer seal for Arthur R. Fisher, License No. 59887, State of Nevada. The seal features the text "ARTHUR R. FISHER" around the top inner edge, "LICENSE" at the bottom, and "STATE OF NEVADA" on the right. The center contains "NO. 59887" and "PROFESSIONAL ENGINEER". There are stars at the top and bottom. A signature is written across the seal.

TC LL	20.0	PSF	REF R487 -- 83107
TC DL	10.0	PSF	DATE 10/03/05
BC DL	10.0	PSF	DRW HCUR487 05276093
BC LL	0.0	PSF	HC - ENG DF / AF
TOT.LD.	40.0	PSF	SEQN - 40620
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1SR0487 Z01

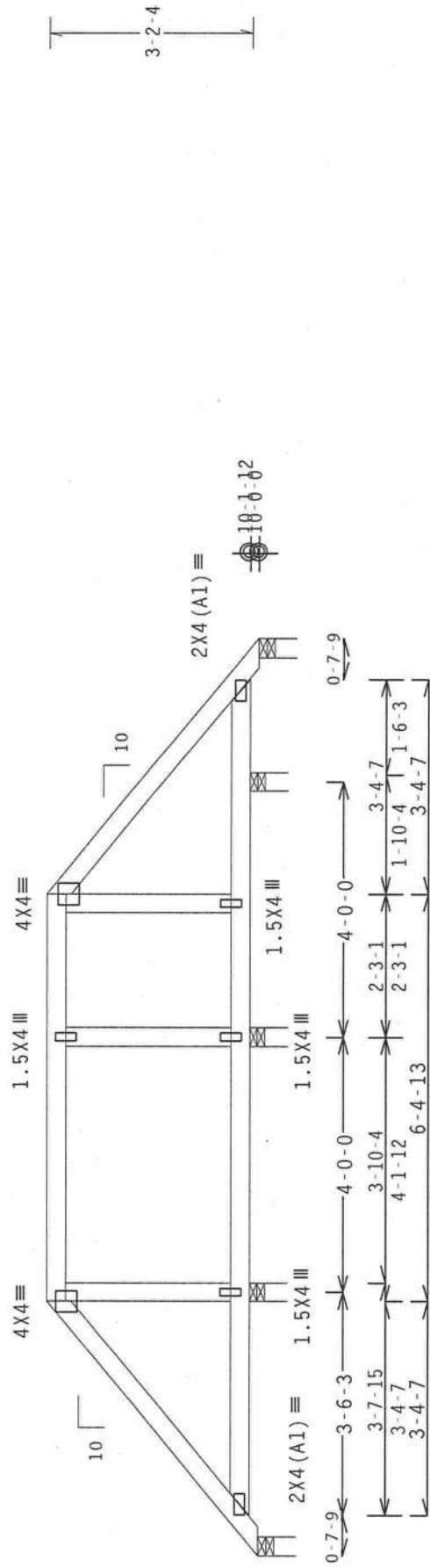
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Refer to DWG PIGBACK1103 or PIGBACK1103 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 11.67 ft mean hgt, ASCE 7-98, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind
BC DL=0.0 psf.

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



R=186 U=180 W=3.5" R=346 U=188 W=3.5" R=401 U=197 W=3.5" R=225 U=180 W=3.5"

R=123 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

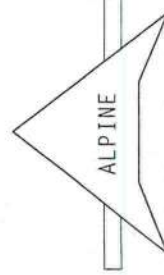
7.04.08

TY:1 FL/-/4/-/-/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, 583 D'ONOFRIO 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 TPI: PROVISIONS OF THIS (NATIONAL DESIGN SPEC., BY AREA) AND TPI: ALPINE CONDUCTOR 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.



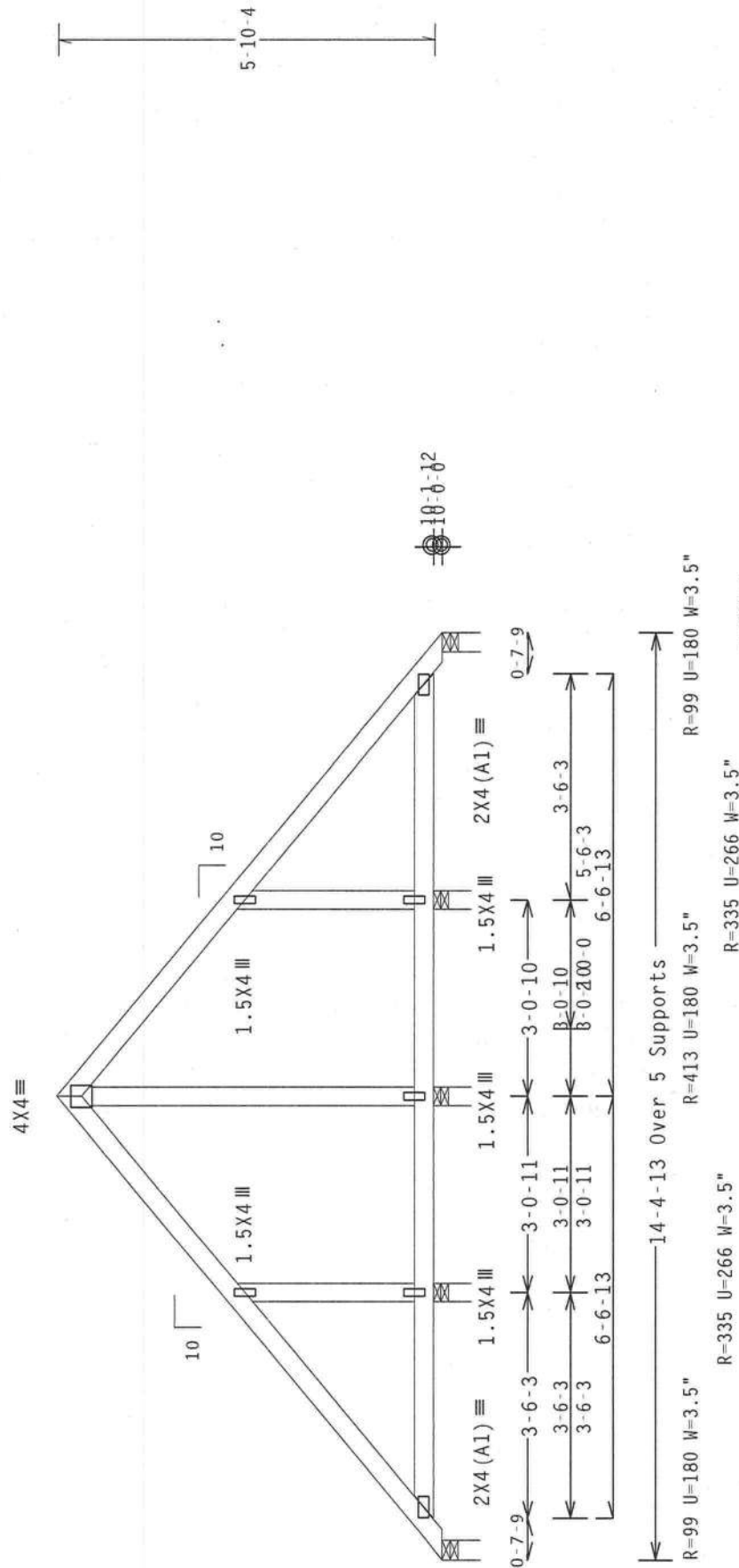
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TC DL	10.0 PSF	DATE	10/03/05	
BC DL	10.0 PSF	DRW	HCUSR487	05276110
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEQN	-	40623
DUR.FAC.	1.25			
SPACING	24.0"	JREF	-	1SR0487 Z01

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

110 mph wind, 13.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE FOLLOWING COMPANIES PROVIDE TRUSSES TO THE BUILDING INDUSTRY: **AMERICAN TRUSS MANUFACTURING CO.**, 358 DOWNSBORO RD., SUITE 100, MADISON, WI 53719; AND **VITCA WOOD TRUSSES COUNCIL OF AMERICA**, 6300 ENTERPRISE DR., SUITE 100, MADISON, WI 53719. PRIOR TO TRUSSING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

* * IMPORTANT * * PUBLISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED TRUSSES, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES IN CONFORMANCE WITH TPI-1. THIS DESIGN CONFORMS WITH ALL FEDERAL PROVISIONS OF HDS (HOLDING DESIGN SPEC., BY AIA80) AND THE ALPINE DESIGN CONFORMS WITH ALL LOCAL ORDINANCES. THE DESIGN IS BASED ON THE ASSUMPTION THAT ALL STEEL PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (3) SHALL BE PER AISC A3 OF TPI-1:2002 SEC.3. A SEAL ON THIS PREPARING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT OF THIS DESIGN. THE USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI-1 SEC.2.



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1950 Marley Drive
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FI Certificate of Authorization # 567

Haines City, FL 33844
FL Certificate of Authorization # 567

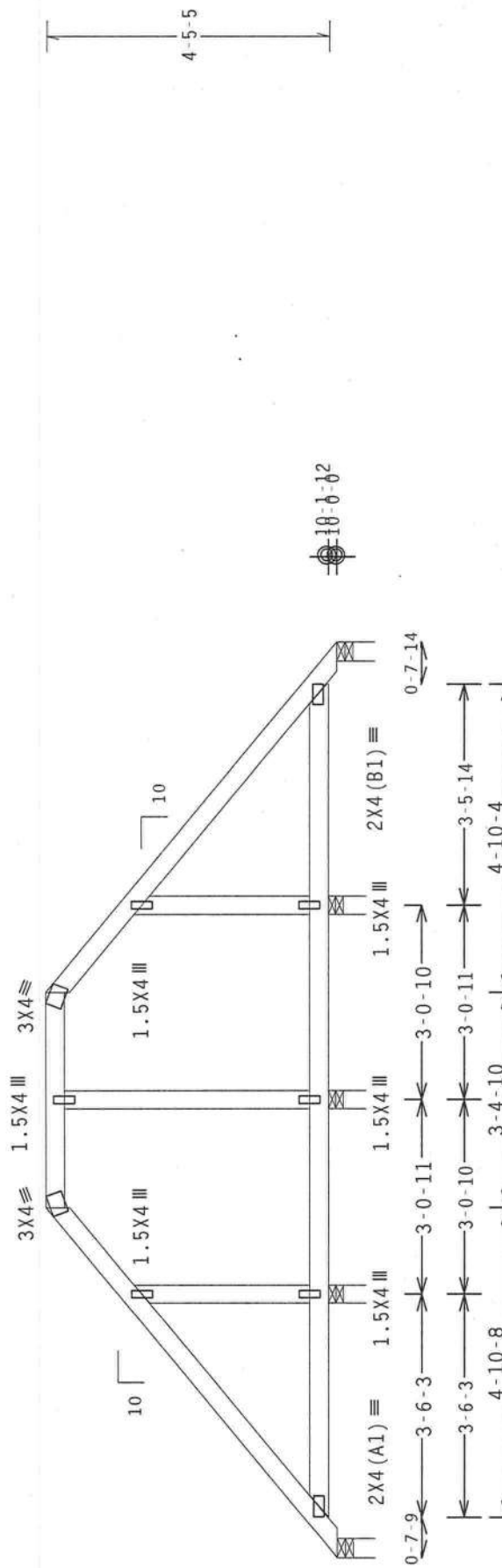
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	

110 mph wind, 12.29 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

Refer to DWG PIGBACKA1103 or PIGBACKB1103 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.



14-4-13 Over 5 Supports

R=151 U=180 W=3.5"

R=268 U=180 W=3.5"

R=151 U=180 W=3.5"

R=355 U=245 W=3.5"

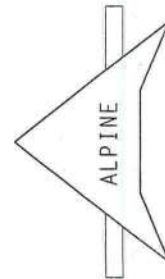
PLT TYP: Wave

Design Crit: TPI-2002(STD)/FBC

7.

FL/-/4/-/-/R/-/

Scale = .375"/Ft.



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Haines City, FL 33844

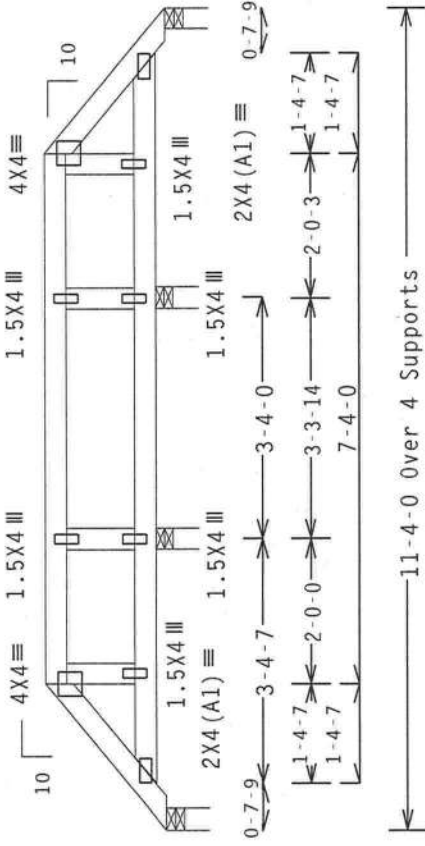
WARNING: THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND UNLOADING. RELOCATING THE BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI PLASTIC INSTITUTE, 3810 DONOFIO DR., SUITE 200, MADISON, WI 53719, AND WCA TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, LN., MADISON, 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 ** UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ALPINE ENGINEERS & DESIGNERS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH T1-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & SPACING OF TRUSSES, OR COMBINING WITH APPLICABLE PROVISIONS OF MODS (NATIONAL DESIGN SPEC., BY AIA/AAS) AND THE ALPINE DESIGN SPECIFICATIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY T1-1 SHALL BE PER ANNEX A OF T1-1-2002 SEC-3. A SEAL ON THE PREPARING 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 THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX T1-1 SEC-2.



Oct 04 '05

TC LL	20.0	PSF	REF R487--	83111
TC DL	10.0	PSF	DATE	10/03/05
BC DL	10.0	PSF	DRW	HCUSR487 05276111
BC LL	0.0	PSF	HC-ENG	DF/AF
TOT.LD.	40.0	PSF	SEQN-	40635
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1SR0487 Z01



R=223 U=180 W=3.5" R=285 U=180 W=3.5" R=223 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

7.04.08

Scale = .375"/Ft.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
Certificate of Authorization # 547

****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, 563 D'ORFORD 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 TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. FOR STEEL), AISC 360-16, AISC 360-22, AISC 360-23, AISC 360-24, AISC 360-25, AISC 360-26, AISC 360-27, AISC 360-28, AISC 360-29, AISC 360-30, AISC 360-31, AISC 360-32, AISC 360-33, AISC 360-34, AISC 360-35, AISC 360-36, AISC 360-37, AISC 360-38, AISC 360-39, AISC 360-40, AISC 360-41, AISC 360-42, AISC 360-43, AISC 360-44, AISC 360-45, AISC 360-46, AISC 360-47, AISC 360-48, AISC 360-49, AISC 360-50, AISC 360-51, AISC 360-52, AISC 360-53, AISC 360-54, AISC 360-55, AISC 360-56, AISC 360-57, AISC 360-58, AISC 360-59, AISC 360-60, AISC 360-61, AISC 360-62, AISC 360-63, AISC 360-64, AISC 360-65, AISC 360-66, AISC 360-67, AISC 360-68, AISC 360-69, AISC 360-70, AISC 360-71, AISC 360-72, AISC 360-73, AISC 360-74, AISC 360-75, AISC 360-76, AISC 360-77, AISC 360-78, AISC 360-79, AISC 360-80, AISC 360-81, AISC 360-82, AISC 360-83, AISC 360-84, AISC 360-85, AISC 360-86, AISC 360-87, AISC 360-88, AISC 360-89, AISC 360-90, AISC 360-91, AISC 360-92, AISC 360-93, AISC 360-94, AISC 360-95, AISC 360-96, AISC 360-97, AISC 360-98, AISC 360-99, AISC 360-100.

Oct 04 '05



TC LL	20.0 PSF	FL/-4/-1-/R/-	Scale = .375"/Ft.
TC DL	10.0 PSF		REF R487-- 83113
BC DL	10.0 PSF		DATE 10/03/05
BC LL	0.0 PSF		DRW HCUSR487 05276097
TOT.LD.	40.0 PSF		HC-ENG DF/AF
DUR.FAC.	1.25		SEQN- 40661
SPACING	24.0"		JREF- 1SR0487_Z01



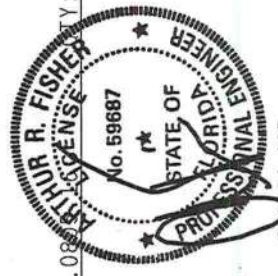
ALPINE
Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

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1950 MARLEY DRIVE
HAINES CITY, FL 33844

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ENGINEERED PRODUCTS, INC.
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HAINES CITY, FL 33844

****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 D'ORFORD 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, 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 AIA/A) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/1606A (N.W.S/7K) ASH A653 GRADE 40/60 (M, F/1.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE SPECIFIED, ALL TRUSSES SHALL BE SEaled PER A SEAL ON THIS 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.

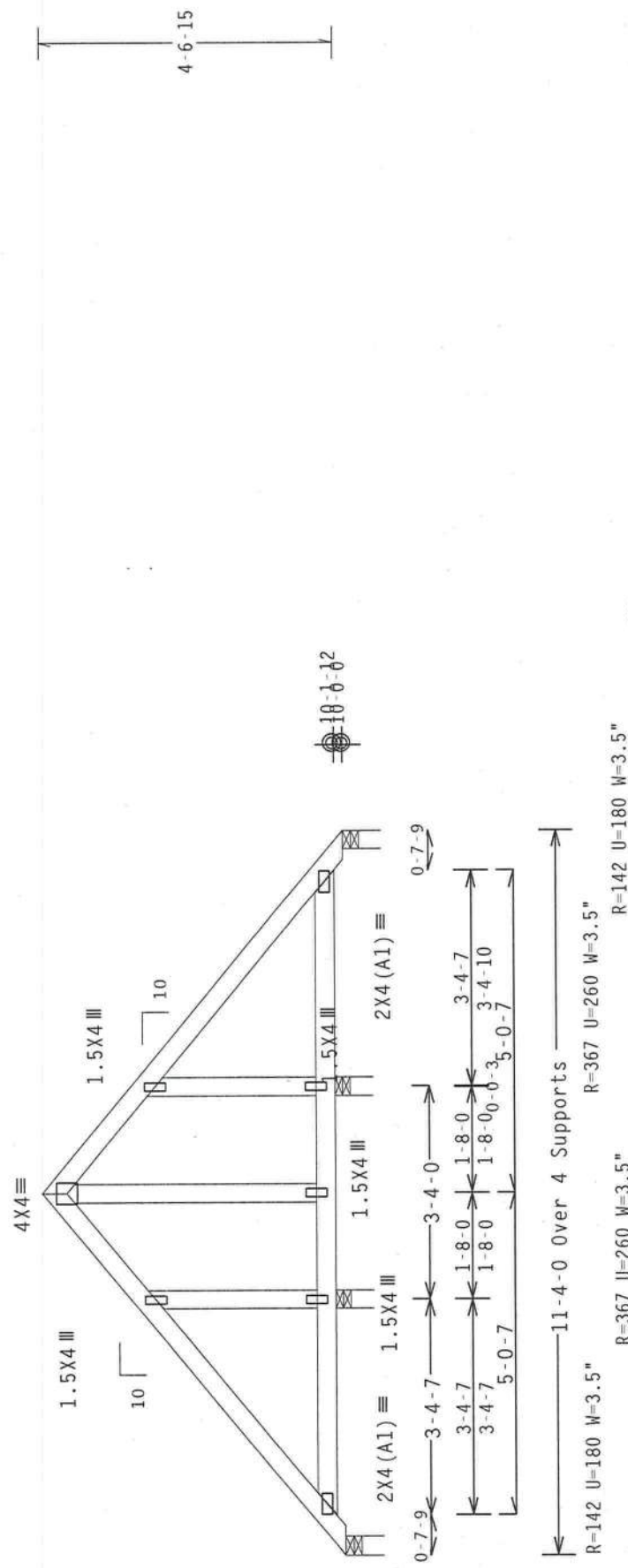


Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

110 mph wind, 12.36 ft mean hgt, ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

Refer to DWG PIGBACK1103 or PIGBACK1103 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.



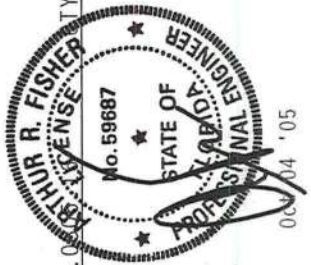
PLT TYP.: Wave

Design Crit: TPI-2002(STD)/FBC

7.04.09

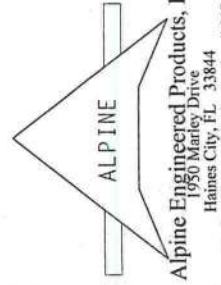
Scale = .375" / Ft.

TC LL	20.0 PSF	REF R487 - - 83115
TC DL	10.0 PSF	DATE 10/03/05
BC DL	10.0 PSF	DRW HCUR487 05276099
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN - 40649
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SR0437 Z01



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIG. 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 PIERCE STREET, 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 OR ERECTING THE TRUSS DESIGN COMPONENTS WITH ANY OF THE PROVISIONS OF THE AISC STEEL EDITION 1989, AISC 360, AISC 358, AISC 359, AISC 360M, AISC 360S, AISC 360T, AISC 360W, AISC 360X, AISC 360Y, AISC 360Z, AISC 360AA, AISC 360AB, AISC 360AC, AISC 360AD, AISC 360AE, AISC 360AF, AISC 360AG, AISC 360AH, AISC 360AI, AISC 360AJ, AISC 360AK, AISC 360AL, AISC 360AM, AISC 360AN, AISC 360AO, AISC 360AP, AISC 360AQ, AISC 360AR, AISC 360AS, AISC 360AT, AISC 360AU, AISC 360AV, AISC 360AW, AISC 360AX, AISC 360AY, AISC 360AZ, AISC 360BA, AISC 360BB, AISC 360BC, AISC 360BD, AISC 360BE, AISC 360BF, AISC 360BG, AISC 360BH, AISC 360BI, AISC 360BJ, AISC 360BK, AISC 360BL, AISC 360BM, AISC 360BN, AISC 360BO, AISC 360BP, AISC 360BQ, AISC 360BR, AISC 360BS, AISC 360BT, AISC 360BU, AISC 360BV, AISC 360BW, AISC 360BX, AISC 360BY, AISC 360BZ, AISC 360CA, AISC 360CB, AISC 360CC, AISC 360CD, AISC 360CE, AISC 360CF, AISC 360CG, AISC 360CH, AISC 360CI, AISC 360CJ, AISC 360CK, AISC 360CL, AISC 360CM, AISC 360CN, AISC 360CO, AISC 360CP, AISC 360CQ, AISC 360CR, AISC 360CS, AISC 360CT, AISC 360CU, AISC 360CV, AISC 360CW, AISC 360CX, AISC 360CY, AISC 360CZ, AISC 360DA, AISC 360DB, AISC 360DC, AISC 360DD, AISC 360DE, AISC 360DF, AISC 360DG, AISC 360DH, AISC 360DI, AISC 360DJ, AISC 360DK, AISC 360DL, AISC 360DM, AISC 360DN, AISC 360DO, AISC 360DP, AISC 360DQ, AISC 360DR, AISC 360DS, AISC 360DT, AISC 360DU, AISC 360DV, AISC 360DW, AISC 360DX, AISC 360DY, AISC 360DZ, AISC 360EA, AISC 360EB, AISC 360EC, AISC 360ED, AISC 360EE, AISC 360EF, AISC 360EG, AISC 360EH, AISC 360EI, AISC 360EJ, AISC 360EK, AISC 360EL, AISC 360EM, AISC 360EN, AISC 360EO, AISC 360EP, AISC 360EQ, AISC 360ER, AISC 360ES, AISC 360ET, AISC 360EU, AISC 360EV, AISC 360EW, AISC 360EX, AISC 360EY, AISC 360EZ, AISC 360FA, AISC 360FB, AISC 360FC, AISC 360FD, AISC 360FE, AISC 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360LP, AISC 360LQ, AISC 360LR, AISC 360LS, AISC 360LT, AISC 360LU, AISC 360LV, AISC 360LW, AISC 360LX, AISC 360LY, AISC 360LZ, AISC 360MA, AISC 360MB, AISC 360MC, AISC 360MD, AISC 360ME, AISC 360MF, AISC 360MG, AISC 360MH, AISC 360MI, AISC 360MJ, AISC 360MK, AISC 360ML, AISC 360MM, AISC 360MN, AISC 360MO, AISC 360MP, AISC 360MQ, AISC 360MR, AISC 360MS, AISC 360MT, AISC 360MU, AISC 360MV, AISC 360MW, AISC 360MX, AISC 360MY, AISC 360MZ, AISC 360NA, AISC 360NB, AISC 360NC, AISC 360ND, AISC 360NE, AISC 360NF, AISC 360NG, AISC 360NH, AISC 360NI, AISC 360NJ, AISC 360NK, AISC 360NL, AISC 360NM, AISC 360NN, AISC 360NO, AISC 360NP, AISC 360NQ, AISC 360NR, AISC 360NS, AISC 360NT, AISC 360NU, AISC 360NV, AISC 360NW, AISC 360NX, AISC 360NY, AISC 360NZ, AISC 360OA, AISC 360OB, AISC 360OC, AISC 360OD, AISC 360OE, AISC 360OF, AISC 360OG, AISC 360OH, AISC 360OI, AISC 360OJ, AISC 360OK, AISC 360OL, AISC 360OM, AISC 360ON, AISC 360OO, AISC 360OP, AISC 360OQ, AISC 360OR, AISC 360OS, AISC 360OT, AISC 360OU, AISC 360OV, AISC 360OW, AISC 360OX, AISC 360OY, AISC 360OZ, AISC 360PA, AISC 360PB, AISC 360PC, AISC 360PD, AISC 360PE, AISC 360PF, AISC 360PG, AISC 360PH, AISC 360PI, AISC 360PJ, AISC 360PK, AISC 360PL, AISC 360PM, AISC 360PN, AISC 360PO, AISC 360PP, AISC 360PQ, AISC 360PR, AISC 360PS, AISC 360PT, AISC 360PU, AISC 360PV, AISC 360PW, AISC 360PX, AISC 360PY, AISC 360PZ, AISC 360QA, AISC 360QB, AISC 360QC, AISC 360QD, AISC 360QE, AISC 360QF, AISC 360QG, AISC 360QH, AISC 360QI, AISC 360QJ, AISC 360QK, AISC 360QL, AISC 360QM, AISC 360QN, AISC 360QO, AISC 360QP, AISC 360QQ, AISC 360QR, AISC 360QS, AISC 360QT, AISC 360QU, AISC 360QV, AISC 360QW, AISC 360QX, AISC 360QY, AISC 360QZ, AISC 360RA, AISC 360RB, AISC 360RC, AISC 360RD, AISC 360RE, AISC 360RF, AISC 360RG, AISC 360RH, AISC 360RI, AISC 360RJ, AISC 360RK, AISC 360RL, AISC 360RM, AISC 360RN, AISC 360RO, AISC 360RP, AISC 360RQ, AISC 360RR, AISC 360RS, AISC 360RT, AISC 360RU, AISC 360RV, AISC 360RW, AISC 360RX, AISC 360RY, AISC 360RZ, AISC 360SA, AISC 360SB, AISC 360SC, AISC 360SD, AISC 360SE, AISC 360SF, AISC 360SG, AISC 360SH, AISC 360SI, AISC 360SJ, AISC 360SK, AISC 360SL, AISC 360SM, AISC 360SN, AISC 36



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

110 mph wind, 13.72 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

SPECIAL LOADS

	(LUMBER)	DUR.FAC.=1.25	/	PLATE DUR.FAC.=1.25)
TC - From	87 PLF at	-1.33	to	87 PLF at 4.33
BC - From	87 PLF at	4.33	to	87 PLF at 10.00
TC - From	5 PLF at	-1.33	to	5 PLF at 0.00
BC - From	20 PLF at	0.00	to	20 PLF at 8.67
BC - From	5 PLF at	8.67	to	5 PLF at 10.00

+ MEMBER TO BE Laterally Braced for Wind Loads Perpendicular to Truss. Bracing System to be Designed and Furnished by Others.

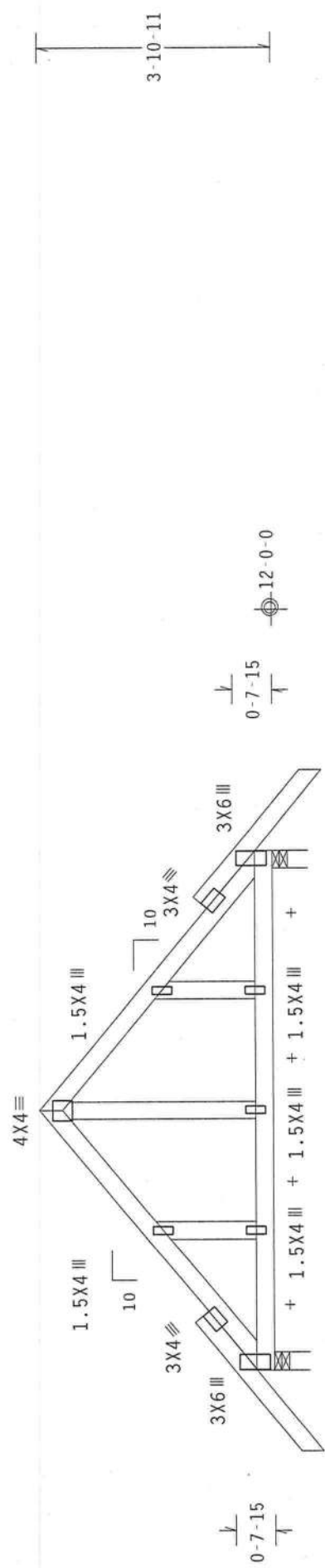


Diagram of a beam with dimensions and support locations. The beam is 14'-0" long. From the left end, there is a 0'-0" segment, followed by a 2'-8" segment, then a 4'-4" segment, then a 3'-4" segment, then a 4'-4" segment, and finally a 0'-10" segment at the right end. The beam is supported by two supports, each 8'-8" from the nearest end. The beam is labeled R=495 U=293 W=3.5".

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

7.04.04
 SCALE: 1" = 4' - 0"
 SCALE = .375" / Ft.

*****WARNING**** TROUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TROUSS PANEL INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND MICA (4000) TROUSS 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-1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC. BY AISC AND TPI-1. CONNECTOR PLATES ARE MADE OF 20/18/16GA (H-W/S) A575 OR THIS DESIGN, POSITION PER DRAWINGS 160A-2. PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THE INSIDE, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) 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.



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

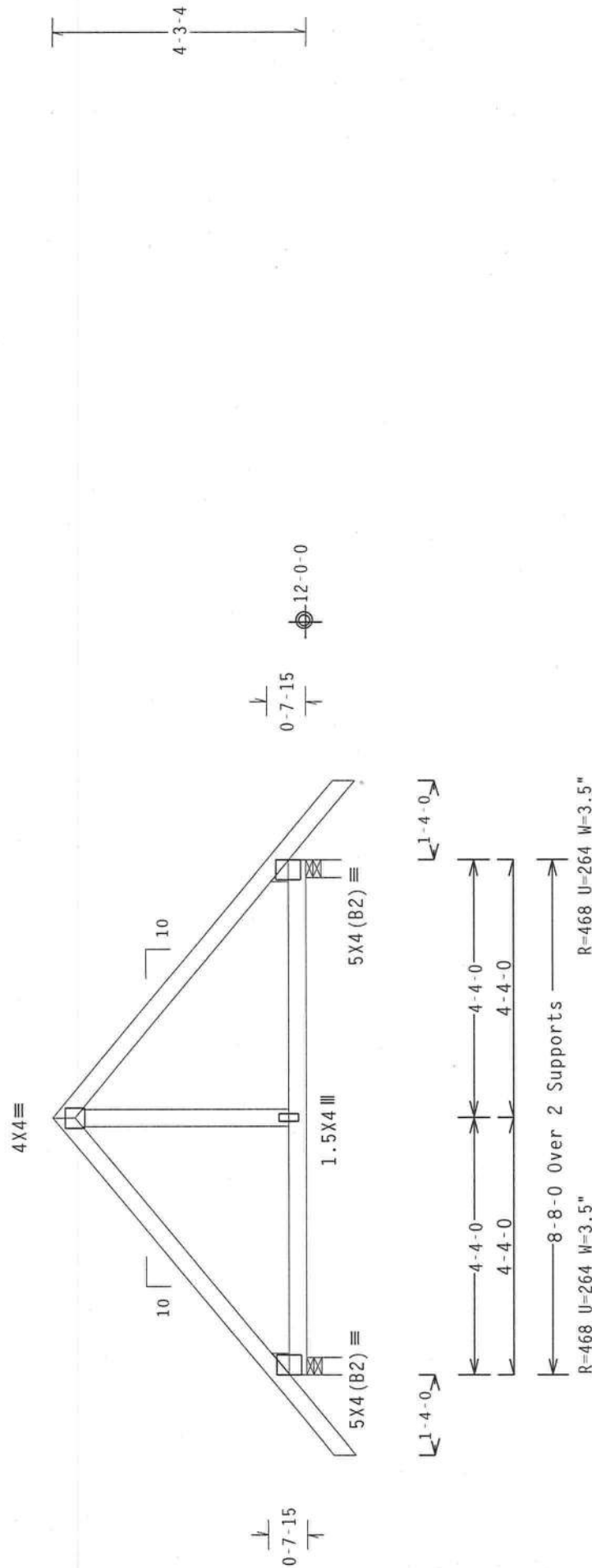
TC LL	20.0 PSF	REF	R487 -	83116
TC DL	10.0 PSF	DATE	10/03/05	
BC DL	10.0 PSF	DRW	HCUSR487	05276100
BC LL	0.0 PSF	HC-ENG	DF/AF	
TOT.LD.	40.0 PSF	SEQN-	11883	REV
DUR.FAC.	1.25			
SPACING	SEE ABOVE	JREF-	1SR0487	Z01

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

Wedge 2x4 SP #3::Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3::

1110 mph wind, 13.91 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

7.

Scale = .375"/Ft.

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS 1-03 (BUILDING CONSTRUCTION) RULES FOR FURTHER INFORMATION. RULES COUNCIL OF AMERICA, 6300 ENTERPRISE, MADISON, WISCONSIN 53719. TOP CHORD PANELS 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
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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASD) AND THE ALPINE
ENGINEERING COMPANY'S TRUSS DESIGN SPECIFICATIONS (TDS) SHALL BE THE RESPONSIBILITY OF THE TRUSS
PLATES TO EACH FACE OF TRUSSES AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER annex A of TPI-1-2002-SEC-3. A SEAL ON THIS
WRAPPING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGNED. THE SCOPE OF THIS CONSENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER annex TPI-1-1-2002-SEC-2.



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

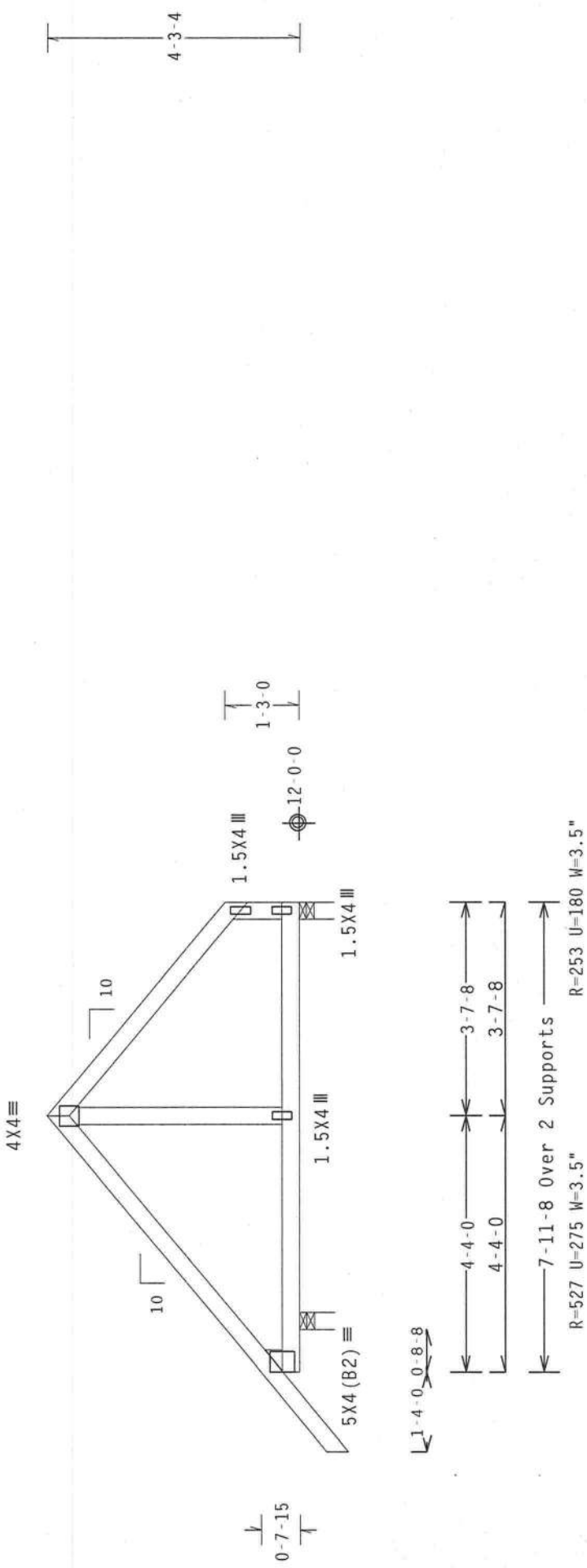
Haines City, FL 33844
 FI Certificate of Authorization # 567

TC LL	20.0	PSF	REF R487--	83117
TC DL	10.0	PSF	DATE	10/03/05
BC DL	10.0	PSF	DRW	HCUSR487 05276068
BC LL	0.0	PSF	HC-ENG DF/AF	*
TOT.LD.	40.0	PSF	SEQN-	11874
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1SR048 701

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3:

110 mph wind, 13.91 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



PLT TYP. Wave	Design Crit: TPI-2002(STD)/FBC	7.04.00	Scale = .375"/Ft.
 Alpine Engineering Products, Inc. 1950 Marley Drive Haines City, FL 33844 F1 Certificate of Authorization # 567	**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, 583 D'ONOFRIO 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 TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIAA DESIGN SPEC. BY AIAA AND TPI. ALPINE TRUSSES ARE DESIGNED TO BE USED IN CONFORMANCE WITH THE AIAA DESIGN SPEC. POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2. A SEAL ON THIS DESIGN 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.		
	TC LL	20.0 PSF	REF R487 -- 83119
	TC DL	10.0 PSF	DATE 10/03/05
	BC DL	10.0 PSF	DRW HCUSR487 05276102
	BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.			SEQN- 11880
DUR.FAC.			1.25
SPACING			24.0"
			JREF - 1SR0487_Z01

(5-412-CADY HOMES-LOT#79 CALLAWAY III - S1)

Top chord 2x4 SP #2 Dense

Bot chord 2x4 SP #2 Dense

Web 2x4 SP #3

:Rt Bearing Leg 2x4 SP #3:

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

Left side jacks have 6-0-0 setback with 0-0-0 cant and 1-4-0 overhang. End jacks have 6-0-0 setback with 0-0-0 cant and 1-4-0 overhang. Right side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

0-9-8

3X4

2X4

2.5X6

2X4(A1)

4

1-11-15

8-0-0

7-8-0

0-3-8

6-9-8 Over 2 Supports

R-368 U=230 W=3.5"

R-554 U=313 W=3.5"

L-1-4-0

0-3-8

Design Crit: TPI-2002(STD)/FBC

7.04.00

FL/-/4/-/-/R/-

Scale = .375"/Ft.

PLT TYP. Wave

ALPINE

Alpine Engineered Products, Inc.

1950 N. Mary Drive

Haines City, FL 33844

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

SEE ABOVE

REF

R487--

86885

DATE

10/04/05

DRW

HCUR487

05277001

HC-ENG

TCE/AF

SEQN-

40675

REV

JREF-

1SR0487_Z04

ALPINE ENGINEERED PRODUCTS, INC.

1950 N. MARY DRIVE

HAINES CITY, FL 33844

FL CERTIFICATE OF AUTHORIZATION # 567

PROFESSIONAL ENGINEER

STATE OF FLORIDA

NO. 59687

EXPIRATION DATE 10/04/05

SEAL

OCT 04 '05

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

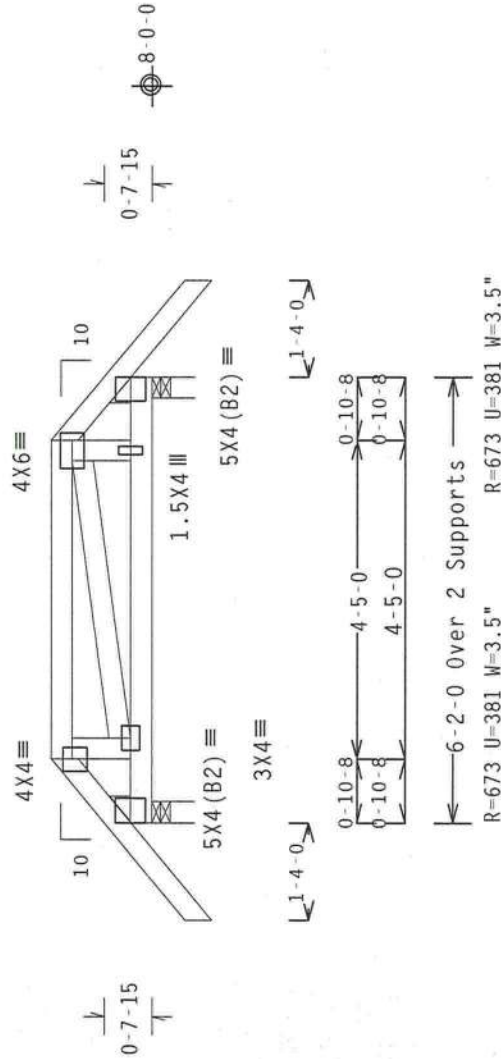
:Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

Girder supports 7-0-0 span to BC one face and 2-0-0 span to TC/BC split opposite face.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



PLT TYP. Wave

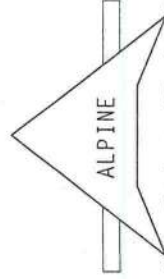
Design Crit: TPI-2002(STD)/FBC

7.10.12

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, 593 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WCA (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**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS. THE DESIGNER'S RESPONSIBILITY IS TO ENSURE THE TRUSS IS PROPERLY BRACED AND SUPPORTED. CONNECTOR PLATES ARE MADE OF 2018/16GA W-8/S/3 ASTM A653 GRADE 40/60 (KIN.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 ABX 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



Oct 04 '05

TY:1

FL/-4/-R/-

TC LL	20.0 PSF	REF R487-- 83122
TC DL	10.0 PSF	DATE 10/03/05
BC DL	10.0 PSF	DRW HCUSR487 05276114
BC LL	0.0 PSF	HC-ENG DF/AF
TOT.LD.	40.0 PSF	SEQN- 161336 REV
DUR.FAC.	1.25	
SPACING	SEE ABOVE	JREF- 1SR0487_Z01

BEARING BLOCK NAIL SPACING DETAIL

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

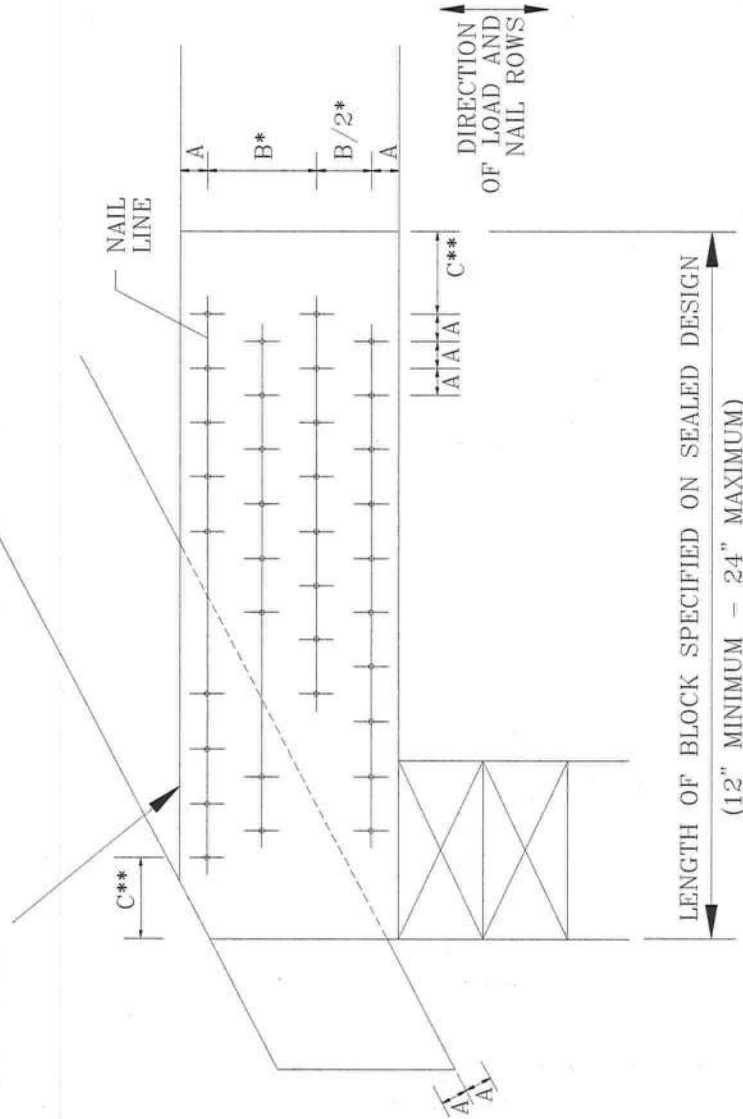
NAIL TYPE	CHORD SIZE					
	2X4	2X6	2X8	2X10	2X12	
8d BOX (0.113"x2.5")	3	6	9	12	15	
10d BOX (0.128"x3")	3	5	7	10	12	
12d BOX (0.128"x3.25")	3	5	7	10	12	
16d BOX (0.135"x3.5")	3	5	7	10	12	
20d BOX (0.148"x4")	2	4	5	6	8	
8d COMMON (0.131"x2.5")	3	5	7	10	12	
10d COMMON (0.148"x3")	2	4	6	8	10	
12d COMMON (0.148"x3.25")	2	4	6	8	10	
16d COMMON (0.162"x3.5")	2	4	6	8	10	
0.120"x2.5" GUN	3	6	8	11	14	
0.131"x2.5" GUN	3	5	7	10	12	
0.120"x3.0" GUN	3	6	8	11	14	
0.131"x3.0" GUN	3	5	7	10	12	

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

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

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

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



MINIMUM NAIL SPACING DISTANCES

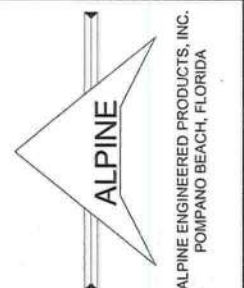
NAIL TYPE	DISTANCES		
	A	B*	C**
8d BOX (0.113"x2.5")	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"x3")	7/8"	1 5/8"	2"
12d BOX (0.128"x3.25")	7/8"	1 5/8"	2"
16d BOX (0.135"x3.5")	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"x4")	1"	1 7/8"	2 1/4"
8d COMMON (0.131"x2.5")	7/8"	1 5/8"	2"
10d COMMON (0.148"x3")	1"	1 7/8"	2 1/4"
12d COMMON (0.148"x3.25")	1"	1 7/8"	2 1/4"
16d COMMON (0.162"x3.5")	1"	2"	2 1/2"
0.120"x2.5" GUN	3/4"	1 1/2"	1 7/8"
0.131"x2.5" GUN	7/8"	1 5/8"	2"
0.120"x3.0" GUN	3/4"	1 1/2"	1 7/8"
0.131"x3.0" GUN	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 983 DUNDON DR., SUITE 200, MADISON, WI 53719) AND VITCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TDP 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 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 (W/H/S/K) ASTM A653 GRADE 40/50 (W/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 (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



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

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

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

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

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

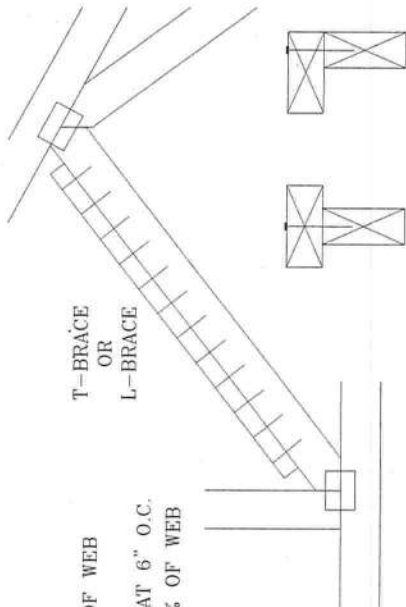
T-BRACING

OR

L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE

ATTACH WITH 16d NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



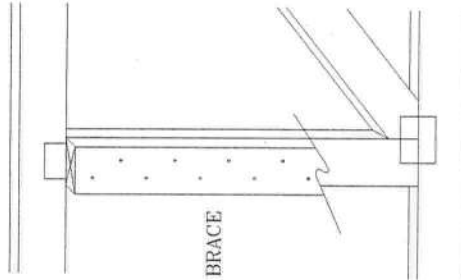
T-BRACE

L-BRACE

SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE.

ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACE

THIS DRAWING REPLACES DRAWING 579,640		PSF	REF	CLB SUBST.
TC LL	TC DL	PSF	DATE	11/26/03
BC DL	BC LL	PSF	DRWG	BRCLBSUB1103
TOT. LD.		PSF	-ENG	MLH/KAR
DUR. FAC.		PSF		
SPACING				

ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Oct 03

WARNINGS TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DOWDFRID DR., SUITE 200, MADISON, WI 53719) AND WTA (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.

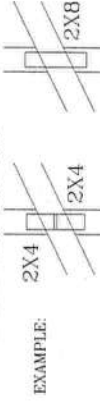
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/R) ASTM A553 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BY ANOTHER PLATE POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF FINISHES FOLLOWED BY (C) SHALL BE PERFORMED BY AN ALPINE ENGINEER. THE ACCEPTANCE OF FINISHES SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS DESIGNER. THE DESIGNER'S 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.
POMPANO BEACH, FLORIDA

SYM. $\mathbb{Q}^n$
ABOUT



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

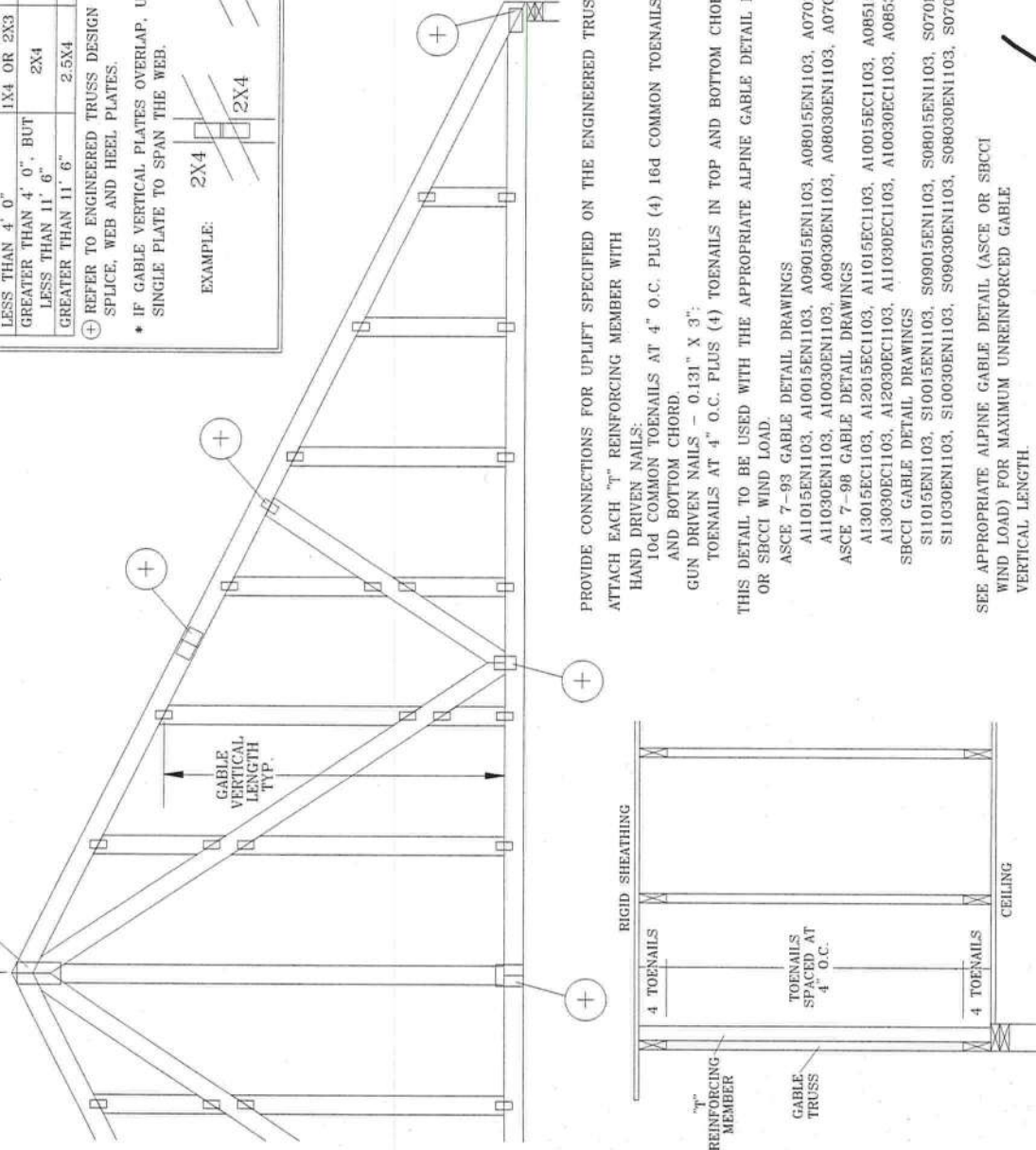


TO CONVERT FROM L_1 TO L_2 REINFORCING MEMBERS, MULTIPLY L_1 FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 L_1 BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCI WIND LOAD

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

EXAMPLE:

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN

ATTACH EACH "T" REINFORCING MEMBER WITH

10d COMMON TOENAILS AT 4" O.C. PLUS (4) 16d COMMON TOENAILS IN TOP AND BOTTOM CHORD.

TOENAILS AT 4" O.C. PLUS (4)

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE
OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

MODEL 1 - 5% GRADE DETAIL DRAWING

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103

SBCCI GABLE DETAIL DRAWINGS

S1015EN1103, S10015EN1103, S09015EN1103, S08015EN1103, S07015EN1103
S11030EN1103, S10030EN1103, S09030EN1103, S08030EN1103, S07030EN1103

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

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	01/16/04
DRWG	GBILETIN103
-ENG	DLJ/KAR

	MAX	TOT	I.D.	60 PSF
1	1.8	1.9	1.7	1.8
2	1.8	1.9	1.7	1.8
3	1.8	1.9	1.7	1.8
4	1.8	1.9	1.7	1.8
5	1.8	1.9	1.7	1.8
6	1.8	1.9	1.7	1.8
7	1.8	1.9	1.7	1.8
8	1.8	1.9	1.7	1.8
9	1.8	1.9	1.7	1.8
10	1.8	1.9	1.7	1.8
11	1.8	1.9	1.7	1.8
12	1.8	1.9	1.7	1.8
13	1.8	1.9	1.7	1.8
14	1.8	1.9	1.7	1.8
15	1.8	1.9	1.7	1.8
16	1.8	1.9	1.7	1.8
17	1.8	1.9	1.7	1.8
18	1.8	1.9	1.7	1.8
19	1.8	1.9	1.7	1.8
20	1.8	1.9	1.7	1.8
21	1.8	1.9	1.7	1.8
22	1.8	1.9	1.7	1.8
23	1.8	1.9	1.7	1.8
24	1.8	1.9	1.7	1.8
25	1.8	1.9	1.7	1.8
26	1.8	1.9	1.7	1.8
27	1.8	1.9	1.7	1.8
28	1.8	1.9	1.7	1.8
29	1.8	1.9	1.7	1.8
30	1.8	1.9	1.7	1.8
31	1.8	1.9	1.7	1.8
32	1.8	1.9	1.7	1.8
33	1.8	1.9	1.7	1.8
34	1.8	1.9	1.7	1.8
35	1.8	1.9	1.7	1.8
36	1.8	1.9	1.7	1.8
37	1.8	1.9	1.7	1.8
38	1.8	1.9	1.7	1.8
39	1.8	1.9	1.7	1.8
40	1.8	1.9	1.7	1.8
41	1.8	1.9	1.7	1.8
42	1.8	1.9	1.7	1.8
43	1.8	1.9	1.7	1.8
44	1.8	1.9	1.7	1.8
45	1.8	1.9	1.7	1.8
46	1.8	1.9	1.7	1.8
47	1.8	1.9	1.7	1.8
48	1.8	1.9	1.7	1.8
49	1.8	1.9	1.7	1.8
50	1.8	1.9	1.7	1.8
51	1.8	1.9	1.7	1.8
52	1.8	1.9	1.7	1.8
53	1.8	1.9	1.7	1.8
54	1.8	1.9	1.7	1.8
55	1.8	1.9	1.7	1.8
56	1.8	1.9	1.7	1.8
57	1.8	1.9	1.7	1.8
58	1.8	1.9	1.7	1.8
59	1.8	1.9	1.7	1.8
60	1.8	1.9	1.7	1.8
61	1.8	1.9	1.7	1.8
62	1.8	1.9	1.7	1.8
63	1.8	1.9	1.7	1.8
64	1.8	1.9	1.7	1.8
65	1.8	1.9	1.7	1.8
66	1.8	1.9	1.7	1.8
67	1.8	1.9	1.7	1.8
68	1.8	1.9	1.7	1.8
69	1.8	1.9	1.7	1.8
70	1.8	1.9	1.7	1.8
71	1.8	1.9	1.7	1.8
72	1.8	1.9	1.7	1.8
73	1.8	1.9	1.7	1.8
74	1.8	1.9	1.7	1.8
75	1.8	1.9	1.7	1.8
76	1.8	1.9	1.7	1.8
77	1.8	1.9	1.7	1.8
78	1.8	1.9	1.7	1.8
79	1.8	1.9	1.7	1.8
80	1.8	1.9	1.7	1.8
81	1.8	1.9	1.7	1.8
82	1.8	1.9	1.7	1.8
83	1.8	1.9	1.7	1.8
84	1.8	1.9	1.7	1.8
85	1.8	1.9	1.7	1.8
86	1.8	1.9	1.7	1.8
87	1.8	1.9	1.7	1.8
88	1.8	1.9	1.7	1.8
89	1.8	1.9	1.7	1.8
90	1.8	1.9	1.7	1.8

DUR. FAC. ANY.

MAX SPACING 24.0"

•WARNING• TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RC31-1-03 "BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE CRUISE PLATE INSTITUTE, 583 PONDVIEW RD, SUITE 200, MADISON, WI 53719, AND WCA "AVID TRUSS CATALOG 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 LING.

••IMPORTANT•• FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEER SHALL BE RESPONSIBLE FOR ANY MODIFICATION OF THIS DESIGN FOR THIS BUILDING. ANY FAILURE TO BUILD THE TRUSS TO CONFORMANCE WITH THE ABOVE LISTED PROVISIONS OF NDS NATIONAL DESIGN SPEC FOR TRUSSES. DESIGN CONFORMANCE WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC BY AFAPA AND TEL ALPINE. CONCEPT PLATES ARE MADE OF 2018/16GA (W/4/S/K) ASTM A653 GRADE 40/50 (W/4/S/K) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER BRAYINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (D) SHALL BE THE DESIGNER'S POSITION. DESIGNER SHALL BE RESPONSIBLE FOR THE TRUSS CONCEPT DESIGN AND THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS CONCEPT DESIGN AND THE SUITABILITY AND USE OF THIS DESIGN COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING ENGINEER, PER ANSI/TPI 1 SEC 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA



COLUMBIA COUNTY BUILDING DEPARTMENT

**RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR
FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS
ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002**

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

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

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

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☒	☒	All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☒	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☒	☒	<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>
		a) Plans or specifications must state compliance with FBC Section 1606
		b) The following information must be shown as per section 1606.1.7 FBC
		a. Basic wind speed (MPH)
		b. Wind importance factor (I) and building category
		c. Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
		d. The applicable internal pressure coefficient
		e. Components and Cladding. The design wind pressure in terms of psf (kN/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
☒	☒	g) Number of stories

- ☒ SEE NOTE

c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

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

Floor Framing System:

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

Plumbing Fixture layout

Electrical layout including:

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

HVAC information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

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

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

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

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

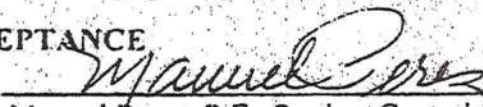
APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


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

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

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

2. PRODUCT DESCRIPTION

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

3. LIMITATIONS

- 3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.
- 3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

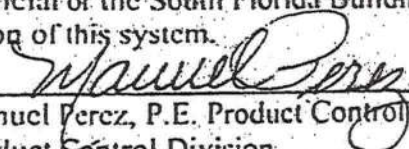
- 4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters):
- 4.2.1 Door: the installation of this unit will not require a hurricane protection system.
- 4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

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

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


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

I

**AAMA/NWDA 101/1.S.2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

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

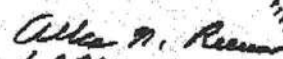
Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

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:mb


1 APRIL 2002



II

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

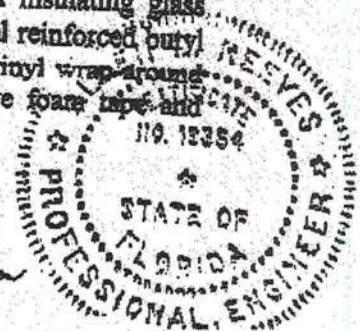
Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

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. Ramm
1 APRIL 2002



III

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



IV

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 APR 12 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"

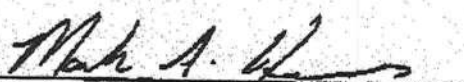
Allen N. Reeves
1 APRIL 2002



VI

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





FEB - 4 2002

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

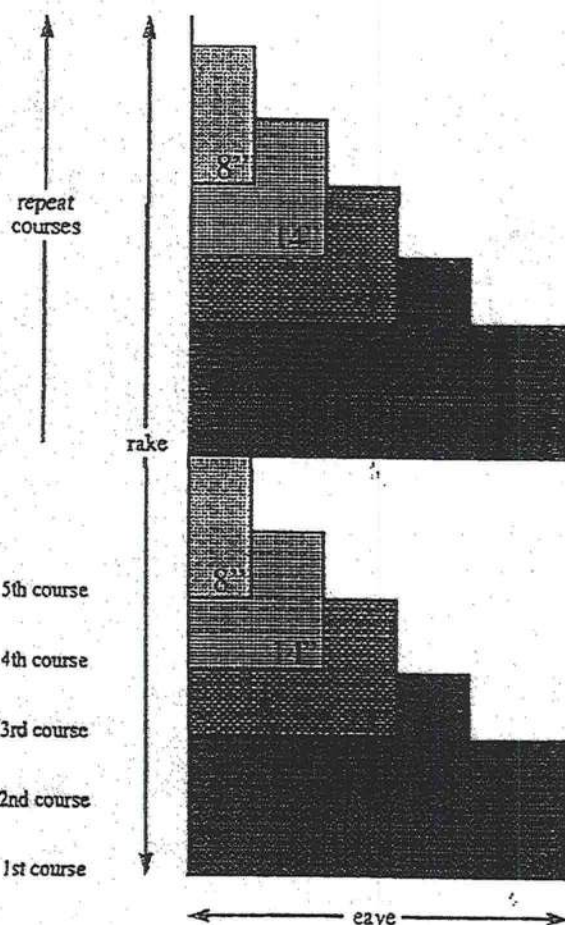
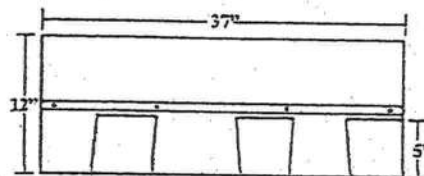
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

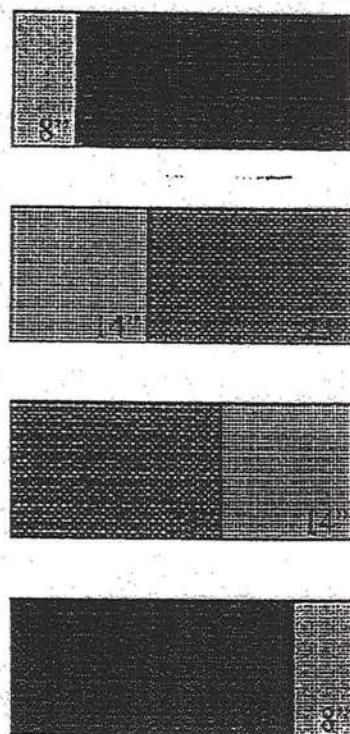


Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- ### THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.

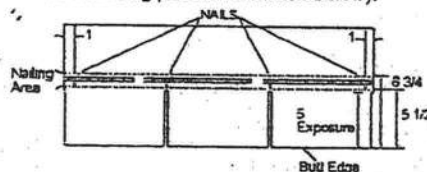
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

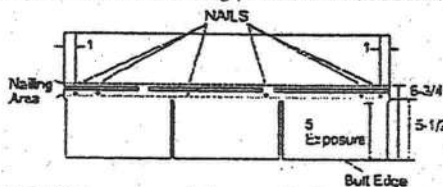
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagrams and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

- 1) **Standard Fastening Pattern.** (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below.)



- 2) **Mansard or High Wind Fastening Pattern.** (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

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07/01

• Glass-Seal • Glass-Seal AR

• Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

3. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

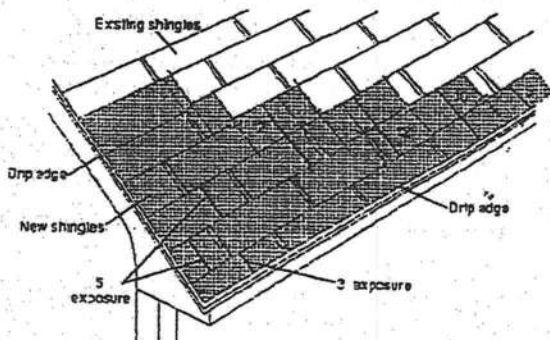
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

3. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

• Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

• Extend the end shingle at least 12 in. on to the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.

• Do not trim if the shingle length exceeds 12 in. Lengths should vary.
• Press the shingles tightly into the valley.
• Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

• To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

Note: For a neater installation, snap a chalkline over the shingles for guidance.

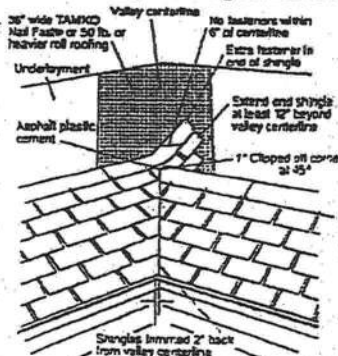
• Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

• CAUTION:

Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

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(CONTINUED from Pg. 3)

• Glass-Seal
• Glass-Seal AR

• Elite Glass-Seal®
• Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

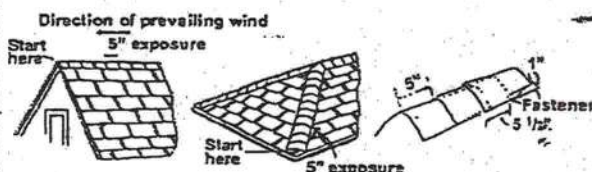
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IMPORTANT • READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

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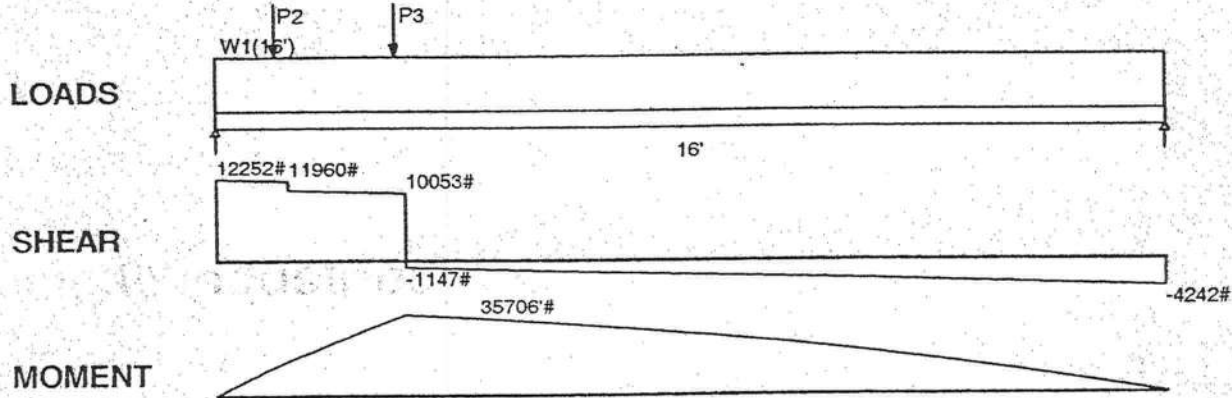
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800-443-1834
800-530-8868

07/01

MARK Garage Header Roof Beam

Trib: 5.5 ft. MEMBER SLOPE: 0/12 Input reflects horizontal clear spans.

W1= 220 plf LL = 20 psf DL = 20 psf Duration = 125%
P2= 1440 lbs @ 1 ft. LL = 720 lbs DL = 720 lbs Duration = 125%
P3= 11200 lbs @ 3 ft. LL = 5600 lbs DL = 5600 lbs Duration = 125%
Member Weight = 13.6 plf



Maximum Reactions		Support 1	Support 2		
Critical Live Load: (DOL)		6070 (125)	2065 (125)		
Dead Load:		6182	2177		
		% Allow.	Maximum	Allow.	DOL - Control
Shear: (lbs)		90%	11960	13300	125% - All Loads
Positive Moment: (ft-lbs)		92%	35706	38922	125% - All Loads
Deflection		LL	Ratio	TL	Ratio
Span:		0.316	1 / 627	0.642	1 / 308
		EI = 2270 x 10 ⁶			

*** USE 3.5 x 16 INCH StrucLam(1.9E) ***

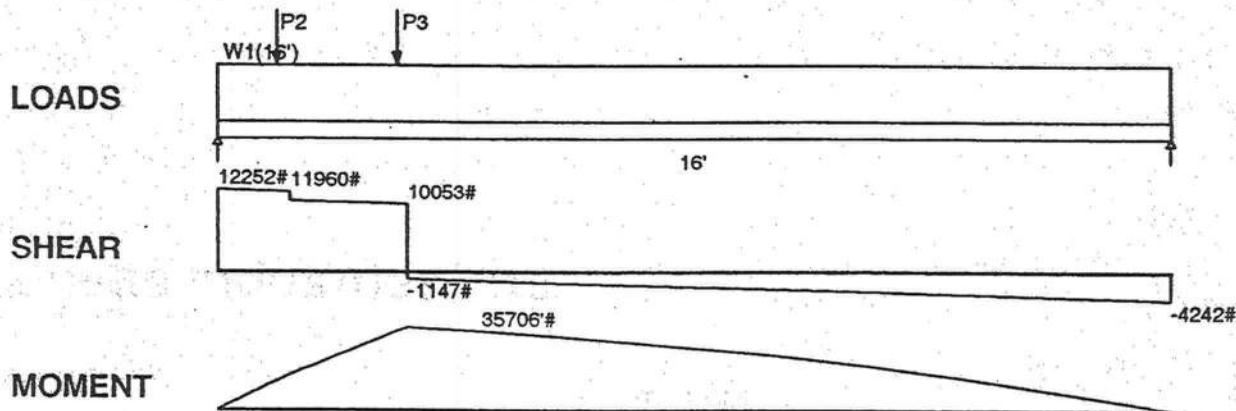
Min end bearing = 5 inches. Support bearing length requirements must be checked separately. Continuous lateral support required at top edge. Lateral support required at bearings for bottom edge.

GARAGE DOOR
HDL DATA

MARK Garage Header Roof Beam

Trib: 5.5 ft. MEMBER SLOPE: 0/12 Input reflects horizontal clear spans.

W1= 220 plf LL = 20 psf DL = 20 psf Duration = 125%
P2= 1440 lbs @ 1 ft. LL = 720 lbs DL = 720 lbs Duration = 125%
P3= 11200 lbs @ 3 ft. LL = 5600 lbs DL = 5600 lbs Duration = 125%
Member Weight = 13.6 plf



Maximum Reactions		Support 1	Support 2		
Critical Live Load: (DOL)		6070 (125)	2065 (125)		
Dead Load:		6182	2177		
	% Allow.	Maximum	Allow.	DOL - Control	
Shear: (lbs)	90%	11960	13300	125% - All Loads	
Positive Moment: (ft-lbs)	92%	35706	38922	125% - All Loads	
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Span:	0.316	1 / 627	0.642	1 / 308	

*** USE 3.5 x 16 INCH StrucLam(1.9E) ***

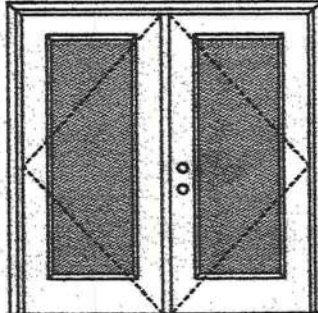
Min end bearing = 5 inches. Support bearing length requirements must be checked separately. Continuous lateral support required at top edge. Lateral support required at bearings for bottom edge.

GARAGE DOOR
HDF DATA

XX

Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:****Note:**

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

Double Door

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

Design Pressure**+40.5/-40.5**

Limited water unless special threshold design is used.

Large Missile Impact Resistance**Hurricane protective system (shutters) is 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-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:**1/4 GLASS:**

100 Series



133, 135 Series



136 Series



680 Series



622 Series

1/2 GLASS:

105 Series*



106, 160 Series*



129 Series*



200 Series*

12 R/L, 23 R/L, 24 R/L
Series*

107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection
Premium Quality Doors



Exclusively from

Masonite
Masonite International Corporation

XX

Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

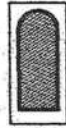
404 Series



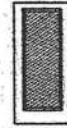
410 Series



450 Series

FULL GLASS:

109 Series

114, 120, 122
Series

152 Series



149 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; 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 PA202.

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. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

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

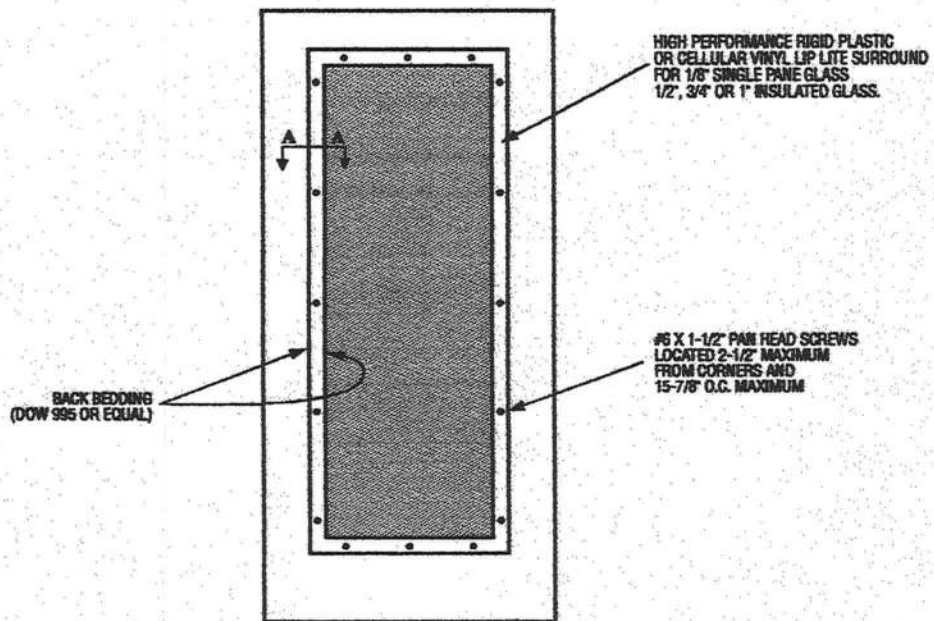
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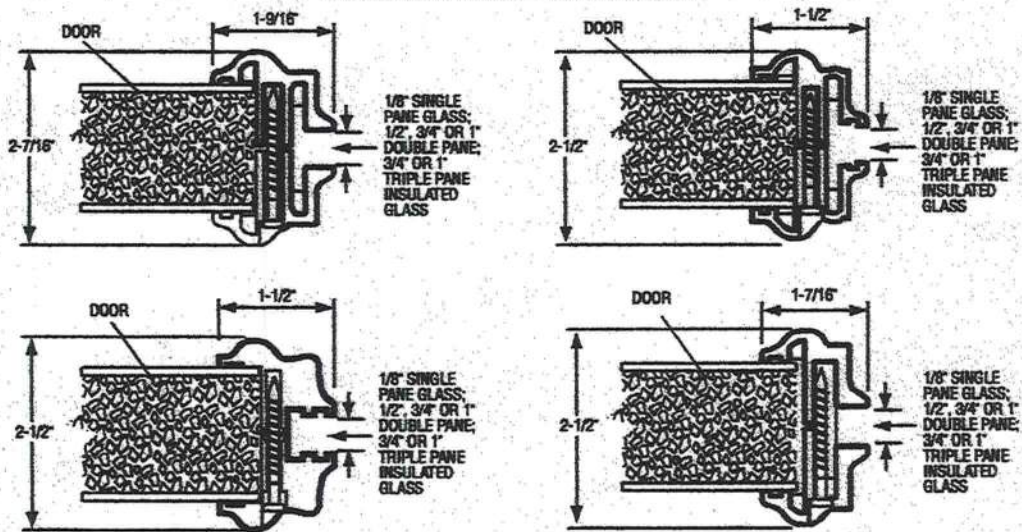
PREMIER Collection
Premium Quality Doors

Exclusively from
Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



Residential System Sizing Calculation

Summary

Spec House

Project Title:
Cady Homes & Associates

Class 3 Rating
Registration No. 0
Climate: North

Lake City, FL 32025-

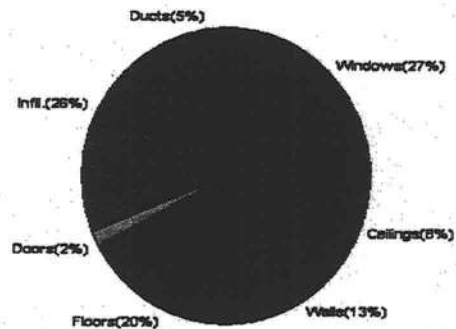
9/9/2005

Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	24 F
Total heating load calculation	35855 Btuh	Total cooling load calculation	39481 Btuh
Submitted heating capacity	43000 Btuh	Submitted cooling capacity	43000 Btuh
Submitted as % of calculated	119.9 %	Submitted as % of calculated	108.9 %

WINTER CALCULATIONS

Winter Heating Load (for 2046 sqft)

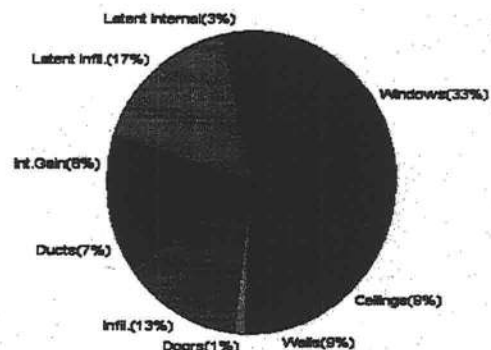
Load component		Load	
Window total	336 sqft	9509	Btuh
Wall total	1578 sqft	4670	Btuh
Door total	40 sqft	555	Btuh
Ceiling total	2200 sqft	2860	Btuh
Floor total	227 ft	7173	Btuh
Infiltration	219 cfm	9381	Btuh
Subtotal		34148	Btuh
Duct loss		1707	Btuh
TOTAL HEAT LOSS		35855	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2046 sqft)

Load component		Load	
Window total	336 sqft	13160	Btuh
Wall total	1578 sqft	3400	Btuh
Door total	40 sqft	518	Btuh
Ceiling total	2200 sqft	3476	Btuh
Floor total		0	Btuh
Infiltration	191 cfm	5051	Btuh
Internal gain		3000	Btuh
Subtotal(sensible)		28605	Btuh
Duct gain		2860	Btuh
Total sensible gain		31465	Btuh
Latent gain(infiltration)		6636	Btuh
Latent gain(internal)		1380	Btuh
Total latent gain		8016	Btuh
TOTAL HEAT GAIN		39481	Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Component Details

Spec House

Lake City, FL 32025-

Project Title:
Cady Homes & Associates

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F

9/9/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	W	40.0	28.3	1132 Btuh
2	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
3	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
4	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
5	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
6	2, Clear, Metal, DEF	W	14.0	28.3	396 Btuh
7	2, Clear, Metal, DEF	NW	21.0	28.3	594 Btuh
8	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
9	2, Clear, Metal, DEF	W	42.0	28.3	1189 Btuh
10	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
11	2, Clear, Metal, DEF	N	6.0	28.3	170 Btuh
12	2, Clear, Metal, DEF	E	45.0	28.3	1274 Btuh
13	2, Clear, Metal, DEF	E	22.0	28.3	623 Btuh
14	2, Clear, Metal, DEF	S	16.0	28.3	453 Btuh
15	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
Window Total			336		9509 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1430	3.1	4433 Btuh
2	Frame - Adjacent	13.0	148	1.6	237 Btuh
Wall Total			1578		4670 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		20	18.3	367 Btuh
2	Insulated - Adjac		20	9.4	188 Btuh
Door Total			40		555Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2200	1.3	2860 Btuh
Ceiling Total			2200		2860Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	227.0 ft(p)	31.6	7173 Btuh
Floor Total			227		7173 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	16368(sqft)	219	9381 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				219	9381 Btuh

Totals for Heating	Subtotal	34148 Btuh
	Duct Loss(using duct multiplier of 0.05)	1707 Btuh
	Total Btuh Loss	35855 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Cady Homes & Associates

Class 3 Rating
Registration No. 0
Climate: North

9/9/2005

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

Spec House

Project Title:
Cady Homes & Associates

Class 3 Rating
Registration No. 0
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 9/9/2005

Window	Type	Overhang	Window Area(sqft)			HTM		Load
	Panes/SHGC/U/InSh/ExSh/Omt		Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, DEF, N, N	W	8	7.66	40.0	33.5	6.5	1318 Btuh
2	2, Clear, DEF, N, N	S	1.5	6	15.0	15.0	0.0	375 Btuh
3	2, Clear, DEF, N, N	W	1.5	6	30.0	4.0	26.0	2026 Btuh
4	2, Clear, DEF, N, N	N	1.5	6	15.0	0.0	15.0	375 Btuh
5	2, Clear, DEF, N, N	N	17.5	6	15.0	0.0	15.0	375 Btuh
6	2, Clear, DEF, N, N	W	7.5	8	14.0	7.4	6.6	675 Btuh
7	2, Clear, DEF, N, N	NW	10.5	8	21.0	0.0	21.0	1113 Btuh
8	2, Clear, DEF, N, N	N	8.5	9.66	20.0	0.0	20.0	500 Btuh
9	2, Clear, DEF, N, N	W	15.5	8	42.0	42.0	0.0	1050 Btuh
10	2, Clear, DEF, N, N	N	1.5	6	15.0	0.0	15.0	375 Btuh
11	2, Clear, DEF, N, N	N	1.5	4	6.0	0.0	6.0	150 Btuh
12	2, Clear, DEF, N, N	E	1.5	6	45.0	9.3	35.7	2872 Btuh
13	2, Clear, DEF, N, N	E	9	9.66	22.0	11.7	10.3	1055 Btuh
14	2, Clear, DEF, N, N	S	1.5	5	16.0	16.0	0.0	400 Btuh
15	2, Clear, DEF, N, N	S	1.5	6	20.0	20.0	0.0	500 Btuh
Window Total			336					13160 Btuh
Walls		Type		R-Value	Area	HTM	Load	
1	Frame - Exterior			13.0	1430.0	2.2	3175 Btuh	
2	Frame - Adjacent			13.0	148.0	1.5	225 Btuh	
Wall Total						1578.0	3400 Btuh	
Doors		Type			Area	HTM	Load	
1	Insulated - Exter				20.0	12.9	259 Btuh	
2	Insulated - Adjac				20.0	12.9	259 Btuh	
Door Total						40.0	518 Btuh	
Ceilings		Type/Color		R-Value	Area	HTM	Load	
1	Under Attic/Dark			30.0	2200.0	1.6	3476 Btuh	
Ceiling Total						2200.0	3476 Btuh	
Floors		Type		R-Value	Size	HTM	Load	
1	Slab-On-Grade Edge Insulation			0.0	227.0 ft(p)	0.0	0 Btuh	
Floor Total						227.0	0 Btuh	
Infiltration		Type		ACH	Volume	CFM=	Load	
		Natural		0.70	16368	191.3	5051 Btuh	
		Mechanical				0	0 Btuh	
Infiltration Total						191	5051 Btuh	
Internal gain		Occupants		Btuh/occupant		Appliance	Load	
		6		X 300 +		1200	3000 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Cady Homes & Associates

Class 3 Rating
Registration No. 0
Climate: North

9/9/2005

Totals for Cooling	Subtotal	28605 Btuh
	Duct gain(using duct multiplier of 0.10)	2860 Btuh
	Total sensible gain	31465 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	6636 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	39481 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Omt - compass orientation)

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 15-4S-16-03023-379

Building permit No. 000023760

Use Classification SFD, UTILITY

Fire: 35.52

Permit Holder AARON CADY

Waste: 73.50

Owner of Building AARON CADY

Total: 109.02

Location: 176 SW WILSHIRE DR.(CALLAWAY, LOT 79)



Date: 04/11/2006

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Columbia County Building Department Culvert Permit

Culvert Permit No.
000000860

DATE 10/24/2005 PARCEL ID # 15-4S-16-03023-379
APPLICANT MELANIE RODER PHONE 752-2281
ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024
OWNER AARON CADY PHONE 752-2878
ADDRESS 176 SW WILSHIRE DRIVE LAKE CITY FL 32024
CONTRACTOR AARON CADY PHONE 752-2878
LOCATION OF PROPERTY 90W, TL ON 247S, TL ON CALLAHAN DR, TL ON CALLAWAY, TR ON PHEASANT,
TO THE END, STRAIGHT AHEAD ON WILSHIRE

SUBDIVISION/LOT/BLOCK/PHASE/UNIT CALLAWAY 79

SIGNATURE

Melanie Roder

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
 - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.**

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

