

Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450



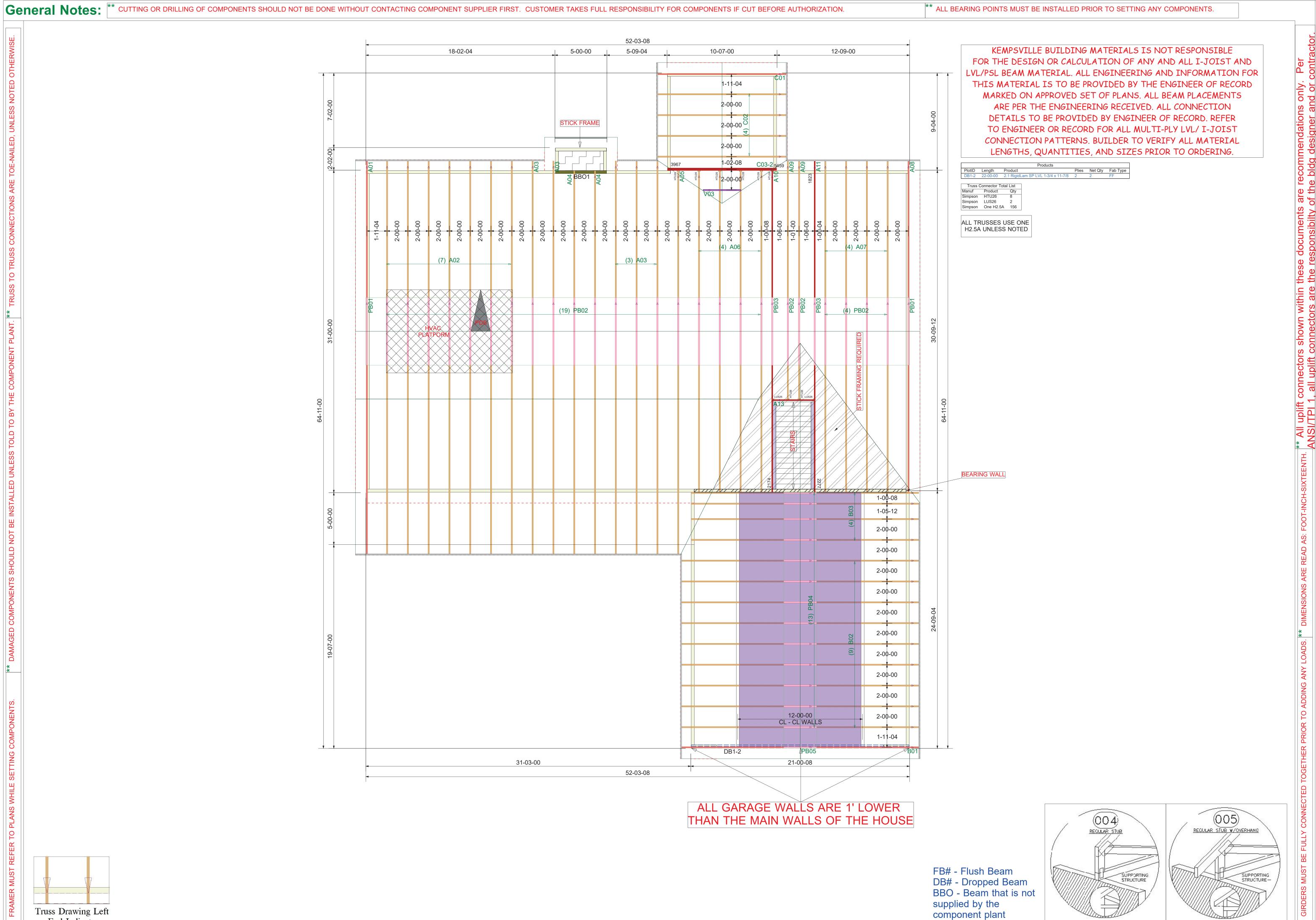
Builder: Wellco Contractor

Model: 130 Hidden Lakes North - Wellco - Plan 9 GRH

THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
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Revisions

00/00/00 Name 00/00/00 Name

Name

Name

Name

GRH

North-Roof-Plan 9

NTS

1/7/2025

Designer:

Aaron Rogers
Project Number:
25010023-01

Sheet Number:

ROOF

130 Hidden Lakes

Contractor

Wellco

00/00/00

00/00/00

00/00/00

** REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS.

** PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN. BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES.

Truss Drawing Left

End Indicator



Customer: Street 1: City:

Customer Ph.

Job Name: 01

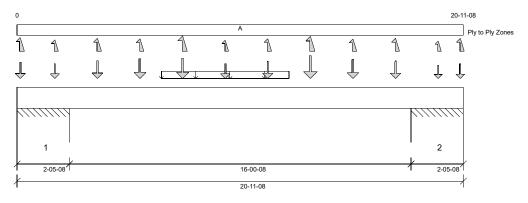
Level: 1st FLOOR Label: DB1-2 -Type: Beam

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

x 11-7/8

Status: Design **Passed**

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2023.09.18 01/06/2025 14:20 8.7.3.303.Update13.26



DESIGN INFORMATION a

IRC 2021 **Building Code:** Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing:

LL Deflection Limit: L/360, 0.75" (absolute) L/240, 1.00" (absolute) TL Deflection Limit:

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 20'- 11 1/2" Bottom: 20'- 11 1/2"

Bearing Stress of Support Material:

- 725 psi Wall @ 0'- 1 1/2"
- 725 psi Wall @ 2'- 4"
- 725 psi Wall @ 18'- 7 1/2"
- 725 psi Wall @ 20'- 10"

								_
l	ANALYSIS RESULTS							
1	Design Criteria	Location	Load Combination	LDF	Design	Limit	Result	
l	Max Pos. Moment:	9'- 9 1/4"	D + 0.75(L + Lr + 0.6W)	1.60	1753 lb ft	18351 lb ft	Passed - 10%	
l	Max Neg. Moment: Max Shear:	18'- 7 1/2"	D + 0.75(L + Lr + 0.6W)	1.60	2785 lb ft	18351 lb ft	Passed - 15%	
l	Max Shear:	17'- 6 1/8"	D + 0.75(L + Lr)	1.15	907 lb	9241 lb	Passed - 10%	
l	Live Load (LL) Pos. Defl.:	10'- 4 7/8"	0.75(L + Lr + 0.6W)		0.038"	L/360	Passed - L/999	
l	Total Load (TL) Pos. Defl.:	10'- 6 1/4"	D + 0.75(L + Lr + 0.6W)		0.060"	L/240	Passed - L/999	

SUP	PORT ANI	D REACTION INFORM	NOITA					
ID	Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result
1	9-00	0.6D + 0.6W	1.60	120 lb		32870 lb	22838 lb	Passed - 1%
1	9-00	D + 0.75(L + Lr)	1.15		-1043 lb	-	-	
1	1-06-00	D + 0.75(L + Lr + 0.6W)	1.60	2413 lb		47250 lb	45675 lb	Passed - 5%
1	1-06-00	0.6D + 0.6W	1.60		-428 lb	-	-	
2	1-06-00	D + 0.75(L + Lr + 0.6W)	1.60	2420 lb		47250 lb	45675 lb	Passed - 5%
2	1-06-00	0.6D + 0.6W	1.60		-427 lb	-	-	
2	9-00	0.6D + 0.6W	1.60	123 lb		32870 lb	22838 lb	Passed - 1%
2	9-00	D + 0.75(L + Lr)	1.15		-1049 lb	-	-	

LOADII	NG								
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Self Weight	0'	20'- 11 1/2"	Self Weight	Тор	11 lb/ft	-	-	-	-
Uniform	6'- 9 1/4"	12'- 9 1/4"	Smoothed Load	Top	-	41 lb/ft	-	-	-
Point	0'- 1 3/4"	0'- 1 3/4"	B01(c01)	Top	57 lb	6 lb	47 lb	94/-3 lb	53/-187 lb
Point	1'- 9 1/4"	1'- 9 1/4"	B01(c01)	Top	69 lb	-7 lb	34 lb	79 lb	38/-124 lb
Point	3'- 9 1/4"	3'- 9 1/4"	B01(c01)	Top	84 lb	16/-5 lb	46 lb	94 lb	52/-167 lb
Point	5'- 9 1/4"	5'- 9 1/4"	B01(c01)	Top	88 lb	75 lb	44 lb	93/-2 lb	48/-158 lb
Point	7'- 9 1/4"	7'- 9 1/4"	B01(c01)	Top	99 lb	-	54 lb	145/-34 lb	60/-200 lb
Point	9'- 9 1/4"	9'- 9 1/4"	B01(c01)	Top	79 lb	-	33 lb	79/-2 lb	27/-120 lb
Point	11'- 9 1/4"	11'- 9 1/4"	B01(c01)	Top	86 lb	-	40 lb	103/-13 lb	40/-148 lb
Point	13'- 9 1/4"	13'- 9 1/4"	B01(c01)	Top	98 lb	81 lb	53 lb	137/-29 lb	58/-194 lb
Point	15'- 9 1/4"	15'- 9 1/4"	B01(c01)	Top	86 lb	61 lb	43 lb	92 lb	48/-154 lb
Point	17'- 9 1/4"	17'- 9 1/4"	B01(c01)	Top	84 lb	5/-5 lb	46 lb	94 lb	52/-169 lb
Point	19'- 9 1/4"	19'- 9 1/4"	B01(c01)	Тор	57 lb	-6 lb	27 lb	64 lb	27/-94 lb
Point	20'- 9 3/4"	20'- 9 3/4"	B01(c01)	Тор	44 lb	7 lb	39 lb	78/-4 lb	47/-165 lb

UNFAC	CTORED R	EACTIONS						
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	2'- 5 1/2"	E17(i26)	1000/-419 lb	582/-346 lb	401/-147 lb	1071/-593 lb	396 lb/ -1094 lb
==>	0'- 1 1/2"	0'- 1 1/2"	E17(i26)	-419 lb	6/-333 lb	-147 lb	119/-494 lb	-
==>	2'- 4"	2'- 4"	E17(i26)	1000 lb	576/-13 lb	401 lb	952/-99 lb	-
2	18'- 6"	20'- 11 1/2"	E12(i3)	1006/-426 lb	581/-343 lb	405/-153 lb	1075/-600 lb	396 lb/ -1094 lb
==>	18'- 7 1/2"	18'- 7 1/2"	E12(i3)	1006 lb	574/-10 lb	405 lb	965/-102 lb	-
==>	20'- 10"	20'- 10"	E12(i3)	-426 lb	7/-333 lb	-153 lb	110/-498 lb	-

DESIGN NOTES

- · CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



Customer: Street 1: City:

City: Customer Ph.. Job Name: 01

Level: 1st FLOOR
Label: DB1-2 Type: Beam

2 Ply Member 2.1 RigidLam SP LVL 1-3/4

x 11-7/8

Status:

Design
Passed

DESIGN NOTES

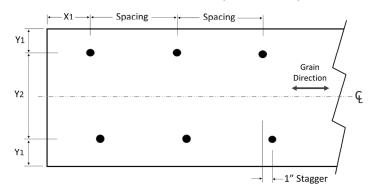
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already
 specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if
 required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.54

PLY TO PLY CONNECTION

Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 42. Row = 2, Spacing = 12"
12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 128 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5"
Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.

FASTENER INSTALLATION - 2 ROWS (FROM ONE FACE)





Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25010027-01

130 Hidden Lakes North-Roof-Plan 9 GRH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I70597220 thru I70597243

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



January 8,2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qtv Ply 130 Hidden Lakes North-Roof-Plan 9 GRH 170597220 25010027-01 A01 1 Piggyback Base Supported Gable Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:49 ID:MUrpfgleVEIYrWDGpMPyWvzy8VI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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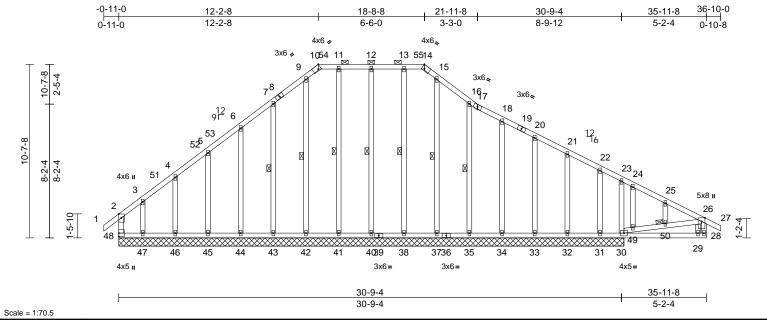


Plate Offsets (X, Y): [2:0-3-0,0-1-12], [10:0-2-2,Edge], [14:Edge,0-2-13]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	30	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 295 lb	FT = 20%

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x4 SP No 2 **WEBS** 2x4 SP No.3

OTHERS 2x4 SP No.3 *Except* 38-13,40-12,41-11:2x4

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

9-3-2 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 10-14. Rigid ceiling directly applied or 6-0-0 oc

WEBS 13-38, 15-37, 16-35, 1 Row at midp 12-40, 11-41, 9-42, 7-43

JOINTS 1 Brace at Jt(s): 50

bracing.

REACTIONS (size) 30=30-11-0, 31=30-11-0, 32=30-11-0, 33=30-11-0,

34=30-11-0, 35=30-11-0, 37=30-11-0, 38=30-11-0, 40=30-11-0, 41=30-11-0, 42=30-11-0, 43=30-11-0, 44=30-11-0, 45=30-11-0,

46=30-11-0, 47=30-11-0, 48=30-11-0

Max Horiz 48=-275 (LC 12)

Max Uplift 30=-91 (LC 11), 31=-182 (LC 30), 32=-40 (LC 15), 33=-42 (LC 15), 34=-47 (LC 15), 35=-111 (LC 15), 38=-5 (LC 11), 40=-51 (LC 10), 41=-8 (LC 11), 43=-86 (LC 14), 44=-60 (LC 14), 45=-71 (LC 14) 46=-40 (LC 14), 47=-236 (LC 14),

48=-560 (LC 25)

Max Grav 30=676 (LC 49), 31=87 (LC 11), 32=237 (LC 49), 33=187 (LC 49), 34=181 (LC 49), 35=147 (LC 57), 37=323 (LC 22), 38=316 (LC 22), 40=195 (LC 42), 41=320 (LC 22), 42=314 (LC 1), 43=211 (LC 46), 44=227 (LC 46), 45=210 (LC 55), 46=138 (LC 62), 47=595 (LC 25), 48=276 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-48=-214/370, 1-2=0/37, 2-3=-354/576, 3-4=-178/435, 4-5=-108/433, 5-6=-61/412,

6-7=-41/399, 7-9=-75/429, 9-10=-78/299, 10-11=-72/317, 11-12=-72/317, 12-13=-72/317, 13-14=-72/317, 14-15=-78/298, 15-16=-75/419, 16-17=-28/375, 17-18=-39/364, 18-20=-48/375, 20-21=-91/376

21-22=-139/385, 22-23=-137/297 23-24=-219/428, 24-25=-239/399, 25-26=-269/351, 26-27=0/28, 26-28=-61/99 47-48=-306/359, 46-47=-306/359,

45-46=-306/359, 44-45=-306/359, 43-44=-306/359, 42-43=-306/359, 41-42=-306/359, 40-41=-306/359, 38-40=-306/359, 37-38=-306/359, 35-37=-306/359, 34-35=-306/359,

33-34=-306/359, 32-33=-306/359, 31-32=-306/359, 30-31=-306/359, 29-30=-23/37, 28-29=-41/49

WEBS 13-38=-277/28, 15-37=-285/58, 16-35=-131/150, 18-34=-140/72,

20-33=-155/73, 21-32=-174/86, 22-31=-27/73, 24-49=-23/57, 25-50=-59/42,

26-29=-119/148. 12-40=-158/76. 11-41=-281/31, 9-42=-275/18, 7-43=-177/115,

6-44=-190/97, 5-45=-164/101, 4-46=-117/92, 3-47=-332/279 23-30=-384/177 30-49=-306/346, 49-50=-313/344

26-50=-306/339

NOTES

Unbalanced roof live loads have been considered for this design.



January 8,2025

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

BOT CHORD

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A01	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:49 ID:MUrpfgleVEIYrWDGpMPyWvzy8VI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- Wind: ASCE 7-16: Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-8-2, Exterior(2N) 2-8-2 to 8-7-6, Corner(3R) 8-7-6 to 18-8-8, Corner(3E) 18-8-8 to 21-11-8, Exterior(2N) 21-11-8 to 33-2-14, Corner(3E) 33-2-14 to 36-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 560 lb uplift at joint
- 14) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 38, 35, 34, 33, 32, 31, 40, 41, 43, 44, 45, 46, 47, and 30. This connection is for uplift only and does not consider lateral forces.
- 15) Non Standard bearing condition. Review required.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply 130 Hidden Lakes North-Roof-Plan 9 GRH 170597221 25010027-01 A02 Piggyback Base Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

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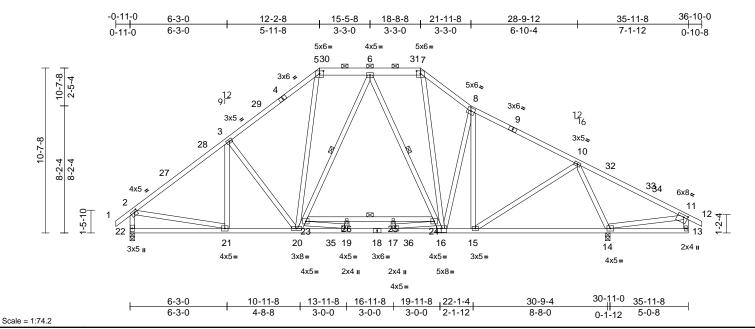


Plate Offsets (X, Y): [2:0-2-0,0-1-8], [5:0-3-0,0-2-2], [7:0-3-0,0-2-2], [11:0-3-0,0-1-12], [16:0-3-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.24	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.04	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 287 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-7:2x6 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 20-6,6-16,16-7,20-5:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 6-20, 6-16, 23-24

REACTIONS 14=0-3-8, 22=0-3-8 (size)

> Max Horiz 22=-282 (LC 12) Max Uplift 14=-71 (LC 15)

Max Grav 14=1907 (LC 47), 22=1451 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/38, 2-3=-1651/66, 3-5=-1496/133,

5-6=-1038/178, 6-7=-963/138 7-8=-1343/136, 8-10=-1251/44,

10-11=-237/569, 11-12=0/27, 2-22=-1388/115, 11-13=-55/58

21-22=-176/360, 20-21=-7/1242,

19-20=0/1098, 17-19=0/1451, 15-17=0/1109, 14-15=0/409, 13-14=-94/192

WEBS 3-21=-129/64, 8-15=-317/92, 10-15=-4/808,

10-14=-1800/265, 2-21=0/1143,

11-14=-593/394, 20-23=-344/109, 6-23=-180/211. 6-24=-263/139.

16-24=-419/39, 7-16=0/562, 5-20=0/493, 3-20=-371/219. 8-16=-260/182.

23-26=-673/0 25-26=-672/0 24-25=-673/0 17-25=0/50, 17-24=0/577, 19-26=0/42,

19-23=0/576

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-8-2, Interior (1) 2-8-2 to 8-7-6, Exterior(2R) 8-7-6 to 18-8-8, Exterior(2E) 18-8-8 to 21-11-8, Interior (1) 21-11-8 to 33-2-14, Exterior(2E) 33-2-14 to 36-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 15-5-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A03	Piggyback Base	5	1	Job Reference (optional)	

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:50 ID:fCU0dK_NjgLkoHkpkzapgpzy8Gn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

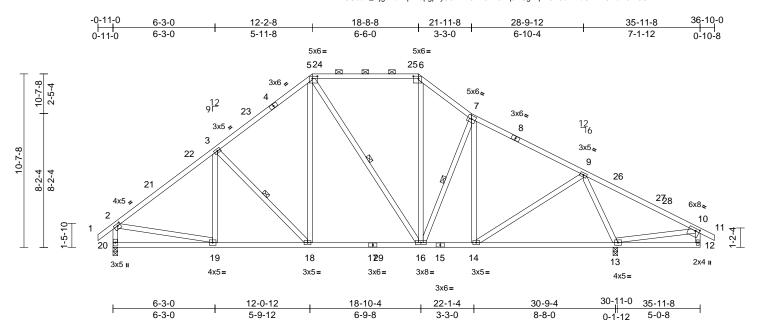


Plate Offsets (X, Y): [2:0-2-0,0-1-8], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12], [10:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.13	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 247 lb	FT = 20%

LUMBER

Scale = 1:70.6

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 16-5:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-7-9 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 3-18, 5-16, 7-16

REACTIONS 13=0-3-8, 20=0-3-8 (size)

Max Horiz 20=-283 (LC 12)

Max Uplift 13=-171 (LC 15), 20=-100 (LC 14)

Max Grav 13=1909 (LC 39), 20=1425 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-3=-1791/195, 3-5=-1556/266

5-6=-1069/252, 6-7=-1406/273, 7-9=-1355/169, 9-10=-237/569, 10-11=0/27,

2-20=-1477/213, 10-12=-56/56 19-20=-179/357, 18-19=-112/1364,

16-18=0/1059, 14-16=0/1105, 13-14=0/428,

12-13=-95/191

3-19=-95/103, 3-18=-452/199, 5-18=-62/602,

5-16=-213/83, 6-16=-59/541, 7-16=-290/157,

7-14=-272/137, 9-14=-85/820,

9-13=-1799/376, 2-19=-14/1198,

10-13=-591/394

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for 1) this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-8-2, Interior (1) 2-8-2 to 8-7-6, Exterior(2R) 8-7-6 to 18-8-8, Exterior(2E) 18-8-8 to 21-11-8, Interior (1) 21-11-8 to 33-2-14, Exterior(2E) 33-2-14 to 36-10-0 zone; cantilever left and right exposed: end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 8,2025

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A04	Piggyback Base	2	1	Job Reference (optional)	170597223

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:51 ID:kLDpbDel9yxfZx_v3T?A2_zy8DM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

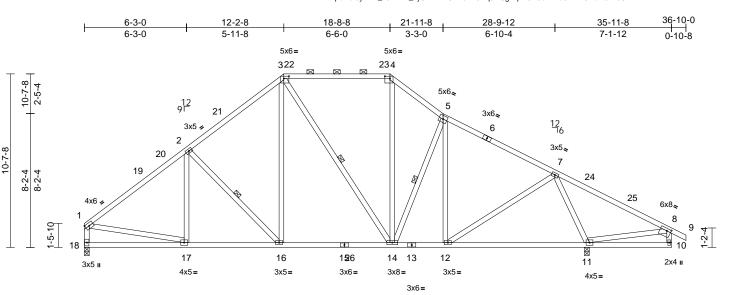


Plate Offsets (X, Y): [3:0-3-12,0-1-12], [4:0-3-12,0-1-12], [8:0-3-0,0-1-12]

6-3-0

6-3-0

12-0-12

5-9-12

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.13	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.03	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 245 lb	FT = 20%

22-1-4

3-3-0

18-10-4

6-9-8

LUMBER

Scale = 1:70.6

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 14-3:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-8 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 2-16, 3-14, 5-14

REACTIONS 11=0-3-8, 18=0-3-8 (size)

Max Horiz 18=-277 (LC 10)

Max Uplift 11=-170 (LC 15), 18=-79 (LC 14) Max Grav 11=1910 (LC 39), 18=1371 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1791/194, 2-3=-1560/269,

3-4=-1070/253, 4-5=-1407/274,

5-7=-1357/170, 7-8=-237/559, 8-9=0/27,

1-18=-1431/169, 8-10=-56/56 17-18=-141/331, 16-17=-112/1370,

14-16=0/1060, 12-14=0/1106, 11-12=0/429,

2-17=-99/100, 2-16=-458/200, 3-16=-63/607,

3-14=-214/83, 4-14=-58/540, 5-14=-289/157,

5-12=-272/137, 7-12=-85/820,

7-11=-1800/377, 1-17=-54/1230,

8-11=-576/394

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for 1) this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-8-14, Interior (1) 3-8-14 to 8-7-6, Exterior(2R) 8-7-6 to 18-8-8, Exterior(2E) 18-8-8 to 21-11-8. Interior (1) 21-11-8 to 33-2-14. Exterior(2E) 33-2-14 to 36-10-0 zone; cantilever left and right exposed: end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



30-11-0

0-1-12

30-9-4

8-8-0

35-11-8

5-0-8

January 8,2025

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

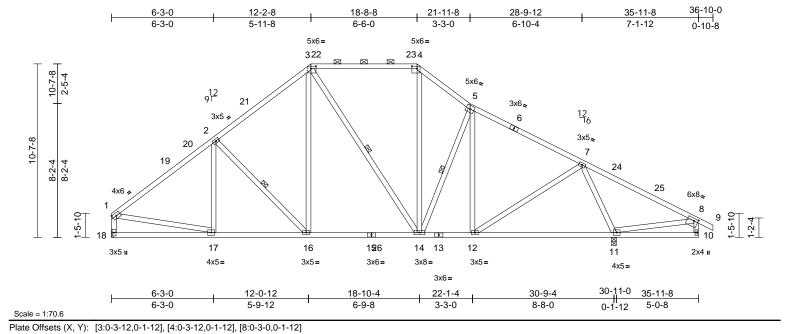


Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A05	Piggyback Base	1	1	Job Reference (optional)	

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries, Inc. Tue Jan 07.17:15:51

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Page: 1



BCDL LUMBER

Loading

TCLL (roof)

Snow (Pf)

TCDL

BCLL

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP No.1

(psf)

20.0

20.0

10.0

0.0

10.0

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 14-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-8 max.): 3-4. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 2-16, 3-14, 5-14 REACTIONS 11=0-3-8, 18= Mechanical

(size) Max Horiz 18=-277 (LC 10)

Max Uplift 11=-170 (LC 15), 18=-79 (LC 14)

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1.15

YES

IRC2021/TPI2014

Max Grav 11=1910 (LC 39), 18=1371 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1791/194, 2-3=-1560/269,

3-4=-1070/253, 4-5=-1407/274,

5-7=-1357/170, 7-8=-237/559, 8-9=0/27,

1-18=-1431/169, 8-10=-56/56 17-18=-141/331, 16-17=-112/1370,

14-16=0/1060, 12-14=0/1106, 11-12=0/429,

2-17=-99/100, 2-16=-458/200, 3-16=-63/607,

3-14=-214/83, 4-14=-58/540, 5-14=-289/157, 5-12=-272/137, 7-12=-85/820,

7-11=-1800/376, 1-17=-54/1230,

8-11=-576/394

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for 1) this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-8-14, Interior (1) 3-8-14 to 8-7-6, Exterior(2R) 8-7-6 to 18-8-8, Exterior(2E) 18-8-8 to 21-11-8. Interior (1) 21-11-8 to 33-2-14. Exterior(2E) 33-2-14 to 36-10-0 zone; cantilever left and right exposed: end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.92

0.61

0.83

in

-0.13

-0.26

0.03

(loc)

11-12

11-12

I/defI

>999

>999

n/a

L/d

240

180

PLATES

Weight: 245 lb

MT20

GRIP

244/190

FT = 20%

CSI

TC

BC

WB

Matrix-MSH

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

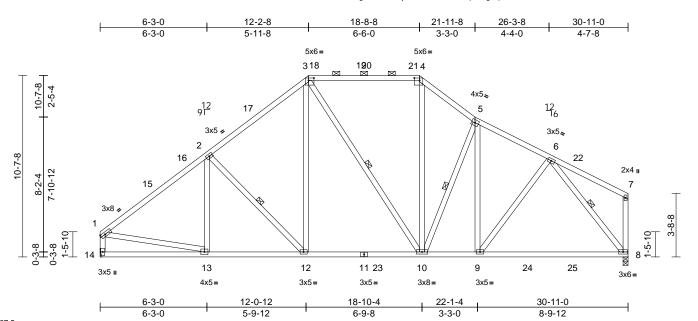
Design valid for use only with MiTek® connectors. This design is based only upon parameters.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A06	Piggyback Base	4	1	Job Reference (optional)	170597225

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:51 ID:FJ99lxXfsO2lkglrZ9nDEOzy89d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:67.5

Plate Offsets (X, Y):	[3:0-3-12,0-1-12],	[4:0-3-12,0-1-12]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.25	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.42	8-9	>874	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 226 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP No.1 BOT CHORD 2x4 SP No 2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-5 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. 2-12, 5-10, 6-8, 3-10

WEBS 1 Row at midpt REACTIONS

8=0-3-8. 14= Mechanical (size) Max Horiz 14=-260 (LC 10)

Max Uplift 8=-87 (LC 15), 14=-78 (LC 14)

Max Grav 8=1421 (LC 38), 14=1406 (LC 50)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1825/221, 2-3=-1601/300,

3-4=-1141/296, 4-5=-1465/325, 5-6=-1465/258, 6-7=-134/119, 1-14=-1457/189, 7-8=-162/91

BOT CHORD 13-14=-217/315, 12-13=-126/1472,

10-12=-62/1167, 9-10=-18/1294,

2-13=-105/94, 2-12=-450/201, 3-12=-62/604,

4-10=-58/568, 5-9=-147/73, 5-10=-402/141, 6-9=0/463, 1-13=-77/1259, 6-8=-1577/140,

3-10=-175/112

NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-2-14, Interior (1) 3-2-14 to 9-1-6. Exterior(2R) 9-1-6 to 15-3-10. Interior (1) 15-3-10 to 15-7-6, Exterior(2R) 15-7-6 to 18-8-8, Exterior (2E) 18-8-8 to 21-11-8, Interior (1) 21-11-8 to 27-8-2, Exterior(2E) 27-8-2 to 30-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



January 8,2025

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

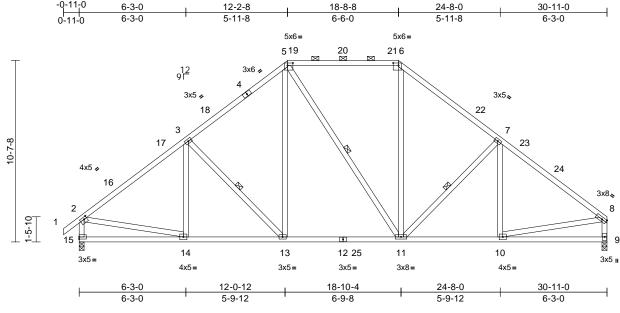
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH
25010027-01	A07	Piggyback Base	4	1	Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries, Inc. Tue Jan 07.17:15:51 ID:40ZH8c0lSg54XppXvZVbsqzy89?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.5 Plate Offsets (X, Y): [2:0-2-0,0-1-8], [5:0-3-12,0-1-12], [6:0-3-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.12	11-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.20	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 211 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 11-5:2x4 SP No.2

BRACING

WFRS

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals, and

2-0-0 oc purlins (2-11-15 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

1 Row at midpt 3-13, 5-11, 7-11

REACTIONS 9=0-3-8, 15=0-3-8 (size)

Max Horiz 15=269 (LC 11)

Max Uplift 9=-107 (LC 15), 15=-127 (LC 14) Max Grav 9=1442 (LC 47), 15=1503 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/38, 2-3=-1889/154, 3-5=-1666/228, 5-6=-1216/238, 6-7=-1659/232,

7-8=-1876/156, 2-15=-1552/160,

8-9=-1501/140

BOT CHORD 14-15=-269/342, 13-14=-149/1449,

11-13=-65/1152, 10-11=-43/1444,

9-10=-44/151

WEBS 3-14=-113/100, 3-13=-439/191,

5-13=-60/585, 5-11=-154/156, 6-11=-41/552,

7-11=-447/193, 7-10=-118/97, 2-14=-20/1279,

8-10=-13/1329

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-2-2, Interior (1) 2-2-2 to 7-10-1, Exterior(2R) 7-10-1 to 23-0-15, Interior (1) 23-0-15 to 27-8-2, Exterior(2E) 27-8-2 to 30-9-4 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 9. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 8,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

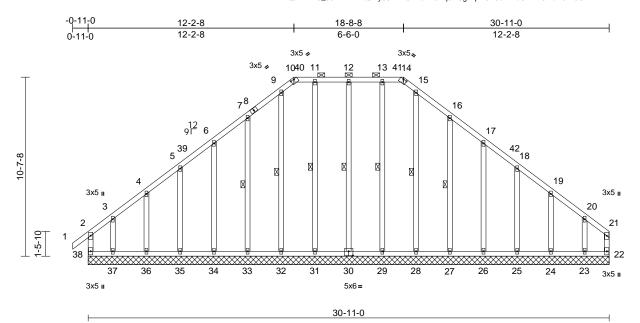
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qtv Ply 130 Hidden Lakes North-Roof-Plan 9 GRH 170597227 25010027-01 A08 Piggyback Base Supported Gable Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:52 ID:fiQa4PBX9_s5DztDkVltQnzy88n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i



Scale = 1:68.4

Plate Offsets (X, Y): [10:0-2-8,0-0-5], [14:0-2-8,0-0-5], [30:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 254 lb	FT = 20%

LU	M	В	E	R

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

OTHERS 2x4 SP No.3 *Except* 30-12,31-11,29-13:2x4

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-14.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS

12-30, 11-31, 9-32, 7-33 1 Row at midpt 13-29, 15-28, 16-27

22=30-11-0, 23=30-11-0, REACTIONS (size) 24=30-11-0, 25=30-11-0, 26=30-11-0, 27=30-11-0,

> 28=30-11-0, 29=30-11-0, 30=30-11-0, 31=30-11-0, 32=30-11-0, 33=30-11-0, 34=30-11-0. 35=30-11-0.

36=30-11-0, 37=30-11-0,

38=30-11-0

Max Horiz 38=269 (LC 11)

22=-163 (LC 13), 23=-178 (LC 15), 24=-51 (LC 15), 25=-71 (LC 15),

26=-62 (LC 15), 27=-92 (LC 15), 30=-41 (LC 10), 31=-3 (LC 11), 33=-91 (LC 14), 34=-62 (LC 14),

35=-72 (LC 14), 36=-47 (LC 14), 37=-208 (LC 11), 38=-206 (LC 10) Max Grav 22=196 (LC 10), 23=259 (LC 53), 24=165 (LC 22), 25=200 (LC 53), 26=233 (LC 41), 27=234 (LC 41), 28=205 (LC 55), 29=222 (LC 40), 30=233 (LC 40), 31=222 (LC 40),

32=210 (LC 57), 33=234 (LC 41), 34=233 (LC 41), 35=200 (LC 51), 36=169 (LC 21), 37=276 (LC 12),

38=276 (LC 31)

FORCES (lb) - Maximum Compression/Maximum TOP CHORD

2-38=-206/146, 1-2=0/38, 2-3=-207/195, 3-4=-137/141, 4-5=-125/149, 5-6=-116/188, 6-7=-135/242, 7-9=-175/323, 9-10=-161/280, 10-11=-151/289, 11-12=-151/289, 12-13=-151/289, 13-14=-151/289,

14-15=-161/280, 15-16=-175/323, 16-17=-135/242 17-18=-107/180 18-19=-91/133, 19-20=-103/103,

20-21=-151/151, 21-22=-124/104 37-38=-123/122, 36-37=-123/122, 35-36=-123/122, 34-35=-123/122, 33-34=-123/122, 32-33=-123/122,

31-32=-123/122, 29-31=-123/122, 28-29=-123/122, 27-28=-123/122, 26-27=-123/122, 25-26=-123/122 24-25=-123/122, 23-24=-123/122,

22-23=-123/122

12-30=-202/90, 11-31=-182/27,

9-32=-170/12, 7-33=-214/115, 6-34=-199/87, 5-35=-173/93, 4-36=-150/86, 3-37=-160/150,

13-29=-182/24, 15-28=-165/0, 16-27=-214/116, 17-26=-199/87, 18-25=-173/92, 19-24=-150/86,

20-23=-165/136

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-2-2, Exterior(2N) 2-2-2 to 9-1-6, Corner(3R) 9-1-6 to 21-9-10, Exterior(2N) 21-9-10 to 27-5-8, Corner(3E) 27-5-8 to 30-9-4 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.



Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A08	Piggyback Base Supported Gable	1	1	Job Reference (optional)	97227

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:52 $ID: fiQa4PBX9_s5DztDkVltQnzy88n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fi$

Page: 2

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 38, 163 lb uplift at joint 22, 41 lb uplift at joint 30, 3 lb uplift at joint 31, 91 lb uplift at joint 33, 62 lb uplift at joint 34, 72 lb uplift at joint 35, 47 lb uplift at joint 36, 208 lb uplift at joint 37, 92 lb uplift at joint 27, 62 lb uplift at joint 26, 71 lb uplift at joint 25, 51 lb uplift at joint 24 and 178 lb uplift at joint 23.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

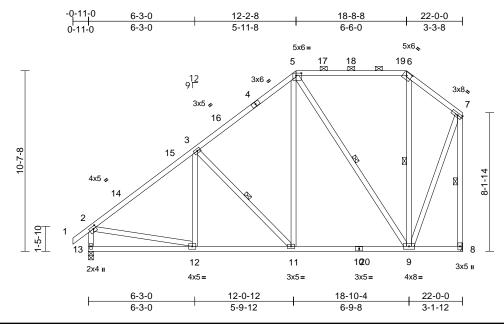


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A09	Piggyback Base	2	1	Job Reference (optional)	228

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:52 ID:QFvbm8HYGRsyACUICAvIITzy88f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:67.8

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-3-12,0-1-12], [6:0-3-7,0-2-6]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.09	9-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.15	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 175 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 9-5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins, except end verticals, and

2-0-0 oc purlins: 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 8-9

WEBS 1 Row at midpt 3-11, 5-9, 6-9, 7-8

REACTIONS 8= Mechanical, 13=0-3-8 (size)

Max Horiz 13=340 (LC 11) Max Uplift 8=-90 (LC 14), 13=-98 (LC 14)

Max Grav 8=982 (LC 47), 13=1052 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/37, 2-3=-1174/118, 3-5=-882/188,

5-6=-297/186, 6-7=-425/216

2-13=-1004/130, 7-8=-1103/116 **BOT CHORD**

12-13=-340/397, 11-12=-201/1069, 9-11=-152/721, 8-9=-98/138

WEBS 3-12=-25/151, 3-11=-492/190, 5-11=-59/616,

5-9=-621/120, 6-9=-234/118, 7-9=-106/905,

2-12=0/731

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 7-11-9, Exterior(2R) 7-11-9 to 18-8-8, Exterior(2E) 18-8-8 to 21-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



January 8,2025

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Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH
25010027-01	A10	Piggyback Base Girder	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:52 ID:In_CMNXbJALcbAhvb2siz3zy7fL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

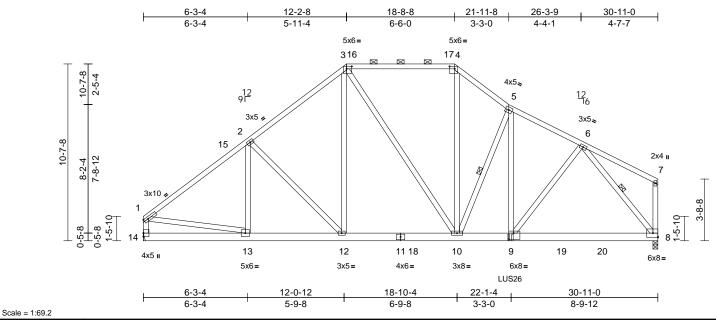


Plate Offsets (X, Y): [3:0-3-12,0-1-12], [4:0-3-12,0-1-12], [9:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.10	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.18	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 250 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP 2400F

2.0E

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(5-7-1 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-10, 6-8 REACTIONS 8=0-3-8, 14= Mechanical (size)

Max Horiz 14=-257 (LC 8)

Max Uplift 8=-375 (LC 13), 14=-192 (LC 12)

Max Grav 8=2174 (LC 34), 14=1721 (LC 48)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=-2055/262, 2-3=-1866/335,

3-4=-1562/382, 4-5=-2001/438,

5-6=-2279/480, 6-7=-125/71,

1-14=-1607/221, 7-8=-165/52

BOT CHORD 13-14=-223/344, 12-13=-246/1734, 10-12=-193/1443, 9-10=-332/2021,

8-9=-309/1513

WEBS 3-12=-84/564, 4-10=-210/1007,

5-10=-1233/420, 5-9=-269/804,

1-13=-81/1467, 6-8=-2383/461, 3-10=-264/457, 2-12=-398/229,

2-13=-159/93, 6-9=-128/917

NOTES

Unbalanced roof live loads have been considered for 1) this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 22-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-7=-60, 8-14=-20

Concentrated Loads (lb) Vert: 9=-1010 (B)





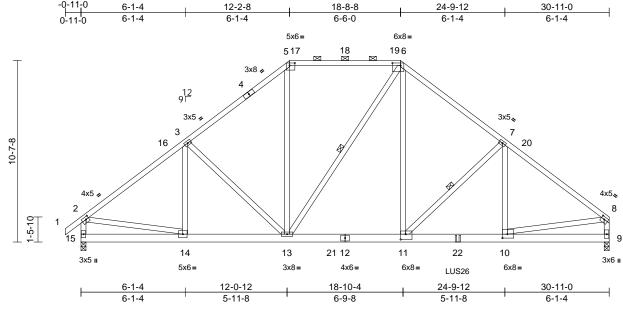
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH
25010027-01	A11	Piggyback Base Girder	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:52 ID:eeLQT?PIMHQOEEClpA8auFzy7eD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:67.4 Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-3-12,0-1-12], [6:0-5-12,0-1-12], [8:0-2-4,0-1-12], [10:0-3-8,0-2-12], [11:0-3-8,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.14	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.25	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 235 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 5-6:2x4 SP 2400F

2.0E

BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 6-13:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. **WEBS**

1 Row at midpt 6-13, 7-11

REACTIONS (size)

TOP CHORD

9=0-3-8, 15=0-3-8

Max Horiz 15=266 (LC 11)

Max Uplift 9=-395 (LC 13), 15=-242 (LC 12)

Max Grav 9=2277 (LC 47), 15=1823 (LC 45)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/38, 2-3=-2111/305, 3-5=-1912/371,

5-6=-1397/354, 6-7=-2258/493,

7-8=-2900/567, 2-15=-1714/270,

8-9=-2258/454

BOT CHORD 14-15=-275/366, 13-14=-274/1775,

11-13=-220/1705, 10-11=-379/2243, 9-10=-65/114

WEBS 5-13=-136/823, 6-11=-370/1510,

2-14=-92/1507, 8-10=-343/2196,

6-13=-604/293, 3-13=-398/210,

3-14=-161/88, 7-11=-875/339, 7-10=-144/574

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 9. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 22-0-12 from the left end to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-5=-60, 5-6=-60, 6-8=-60, 9-15=-20 Concentrated Loads (lb)

Vert: 22=-1010 (F)



January 8,2025

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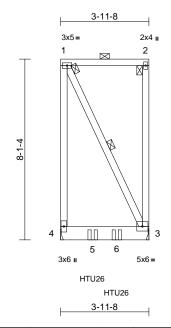
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	A13	Flat Girder	1	1	Job Reference (optional)	170597231

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:52 ID:NA4CJSj7nVOrVkFgJkYCC3zy885-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.6

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	1-11-4 1.15	CSI TC	0.78	DEFL Vert(LL)	in -0.02	(loc) 3-4	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
Snow (Pf)	20.0	Lumber DOL	1.15	вс	0.44	Vert(CT)	-0.03	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No.3 WFBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFRS 1 Row at midpt 1-3

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=-255 (LC 10) Max Uplift 3=-390 (LC 9), 4=-390 (LC 8)

Max Grav 3=1216 (LC 21), 4=1216 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-255/310, 1-2=-95/72, 2-3=-107/44

BOT CHORD 3-4=-222/199

WEBS 1-3=-295/295

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15): Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 4 and 390 lb uplift at joint 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 1-1-0 oc max. starting at 1-5-4 from the left end to 2-6-4 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft) Vert: 1-2=-58, 3-4=-19

Concentrated Loads (lb)

Vert: 5=-887 (B), 6=-887 (B)



January 8,2025

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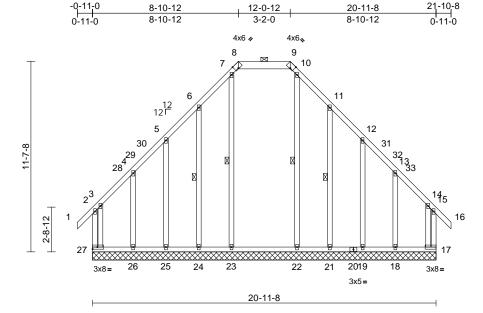


Job Truss Truss Type Qtv Ply 130 Hidden Lakes North-Roof-Plan 9 GRH 170597232 25010027-01 B01 Piggyback Base Supported Gable Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:52 ID:h0vtb3ypMmfY4nvq8HIFWhzy8Xc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.3

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 186 lb	FT = 20%

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TOP CHORD 2x4 SP No.2 *Except* 8-9:2x6 SP No.2 BOT CHORD

2x4 SP No.2 **WEBS** 2x4 SP No.3

OTHERS 2x4 SP No.3 *Except* 23-7,22-10:2x4 SP

BRACING TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 8-9.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 7-23, 6-24, 10-22, 11-21 1 Row at midpt

REACTIONS (size)

17=20-11-8, 18=20-11-8, 19=20-11-8, 21=20-11-8,

> 22=20-11-8, 23=20-11-8, 24=20-11-8, 25=20-11-8,

26=20-11-8, 27=20-11-8 Max Horiz 27=-307 (LC 12)

Max Uplift 17=-242 (LC 11), 18=-263 (LC 10), 19=-55 (LC 15), 21=-140 (LC 15),

24=-141 (LC 14), 25=-54 (LC 14), 26=-271 (LC 11), 27=-252 (LC 10)

17=339 (LC 25), 18=414 (LC 53), Max Grav 19=250 (LC 51), 21=249 (LC 53),

22=424 (LC 54), 23=425 (LC 56), 24=249 (LC 51), 25=251 (LC 53), 26=420 (LC 51), 27=348 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-27=-474/421, 1-2=0/44, 2-3=-299/283, 3-4=-243/251, 4-5=-118/270, 5-6=-158/376,

6-7=-210/504, 7-8=-201/301, 8-9=-161/386, 9-10=-201/301, 10-11=-210/504, 11-12=-161/373, 12-13=-105/287 13-14=-234/242, 14-15=-291/327, 15-16=0/44, 15-17=-461/424

BOT CHORD 26-27=-159/150, 25-26=-159/150,

24-25=-159/150, 23-24=-159/150, 22-23=-159/150, 21-22=-159/150, 19-21=-159/150, 18-19=-159/150,

17-18=-159/150

WFBS 7-23=-294/36, 6-24=-226/160,

> 5-25=-201/127, 4-26=-284/227, 3-27=-646/617. 10-22=-295/33. 11-21=-222/165, 12-19=-222/98

13-18=-279/222, 14-17=-624/596

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 5-10-12, Corner(3R) 5-10-12 to 15-0-12, Exterior(2N) 15-0-12 to 18-10-8, Corner(3E) 18-10-8 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.

- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 27, 242 lb uplift at joint 17, 141 lb uplift at joint 24, 54 lb uplift at joint 25, 271 lb uplift at joint 26, 140 lb uplift at joint 21, 55 lb uplift at joint 19 and 263 lb uplift at joint
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 8,2025

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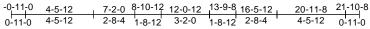
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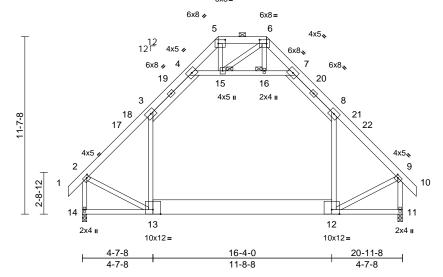


Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	B02	Attic	9	1	Job Reference (optional)	170597233

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:53 ID:cyHnuR75wMezTZsoo3Yrvrzy8Zz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



6x8=



Scale = 1:75.4

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [9:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.16	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.21	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.11	12-13	>999	360		
BCDL	10.0										Weight: 223 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 13-12:2x12 SP 2400F

2.0E **WEBS** 2x4 SP No.3 *Except* 4-7:2x4 SP No.2,

3-4,8-7:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 9-1-3 oc

bracing.

JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS (size)

TOP CHORD

11=0-3-8, 14=0-3-8

Max Horiz 14=-315 (LC 12)

Max Grav 11=1461 (LC 48), 14=1461 (LC 48)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=0/45, 2-3=-1367/0, 3-4=-1009/134,

4-5=-357/103, 5-6=-185/248, 6-7=-360/98, 7-8=-1015/125, 8-9=-1356/8, 9-10=0/45,

2-14=-1556/4, 9-11=-1574/0

BOT CHORD 11-14=-318/876

WEBS 3-13=-98/473, 8-12=-97/473,

4-15=-1100/182, 15-16=-1096/180, 7-16=-1100/180, 2-13=-25/935,

9-12=-26/936, 5-15=-95/153, 6-16=-1/54,

6-15=-195/188

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-10-12, Exterior(2R) 5-10-12 to 15-0-12, Interior (1) 15-0-12 to 18-10-8, Exterior(2E) 18-10-8 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16; Wall dead load (5.0psf) on member (s).3-13, 8-12
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



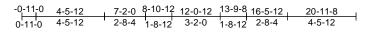
January 8,2025

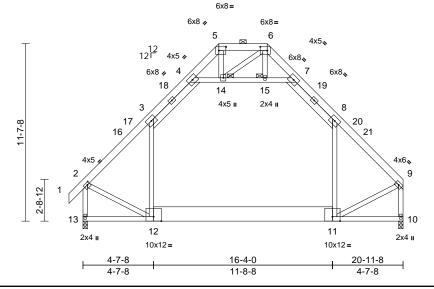
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Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	B03	Attic	4	1	Job Reference (optional)	597234

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:53 ID:qX6mE0bQqLd?k2fOsum3F3zy8by-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:75.4

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.16	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.21	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.11	11-12	>999	360		
BCDL	10.0										Weight: 220 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 12-11:2x12 SP 2400F

2.0E **WEBS** 2x4 SP No.3 *Except* 4-7:2x4 SP No.2,

3-4,8-7:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 9-4-10 oc

bracing.

JOINTS 1 Brace at Jt(s): 14, 15

REACTIONS (size)

10=0-3-8, 13=0-3-8

Max Horiz 13=297 (LC 11)

Max Grav 10=1363 (LC 48), 13=1417 (LC 48)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/44, 2-3=-1327/0, 3-4=-981/125,

4-5=-344/101, 5-6=-177/245, 6-7=-346/96,

7-8=-985/120. 8-9=-1314/0. 2-13=-1511/0.

9-10=-1482/0 10-13=-304/841

BOT CHORD WEBS 3-12=-94/458, 8-11=-98/455

4-14=-1074/171, 14-15=-1068/173, 7-15=-1072/173, 2-12=-22/909,

9-11=-29/898, 5-14=-91/148, 6-15=-1/53,

6-14=-188/180

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-10-12, Exterior(2R) 5-10-12 to 15-0-12, Interior (1) 15-0-12 to 17-9-12, Exterior(2E) 17-9-12 to 20-9-12 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-14, 14-15, 7-15; Wall dead load (5.0psf) on member (s).3-12. 8-11
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



January 8,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

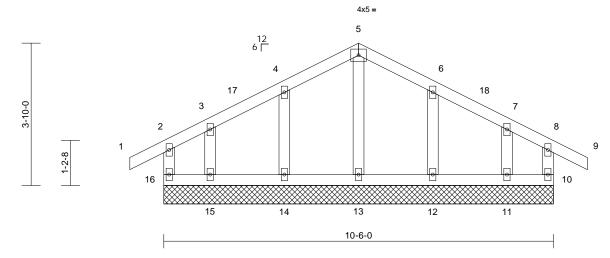


Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	C01	Common Supported Gable	1	1	Job Reference (optional)	

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:53 ID:BFMJz506bfjlEw0Mkg2Jvozy7dR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:31.1

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size)

10=10-6-0, 11=10-6-0, 12=10-6-0, 13=10-6-0, 14=10-6-0, 15=10-6-0, 16=10-6-0

Max Horiz 16=67 (LC 13)

Max Uplift 10=-39 (LC 11), 11=-47 (LC 15),

12=-45 (LC 15), 14=-45 (LC 14), 15=-49 (LC 14), 16=-45 (LC 10)

Max Grav 10=123 (LC 22), 11=160 (LC 22),

12=248 (LC 22), 13=153 (LC 22), 14=248 (LC 21), 15=160 (LC 21),

16=123 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/28, 2-3=-25/48, 3-4=-30/93, TOP CHORD

4-5=-42/164, 5-6=-42/164, 6-7=-30/94.

7-8=-19/41, 8-9=0/28, 2-16=-116/129,

8-10=-116/113

BOT CHORD 15-16=-34/67, 14-15=-34/67, 13-14=-34/67, 12-13=-34/67, 11-12=-34/67, 10-11=-34/67

WEBS 5-13=-115/0, 4-14=-208/134, 3-15=-128/78,

6-12=-208/132, 7-11=-128/95

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-1-0, Corner(3R) 2-1-0 to 8-5-0, Corner(3E) 8-5-0 to 11-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 16, 39 lb uplift at joint 10, 45 lb uplift at joint 14, 49 lb uplift at joint 15, 45 lb uplift at joint 12 and 47 lb uplift at ioint 11.

LOAD CASE(S) Standard



January 8,2025

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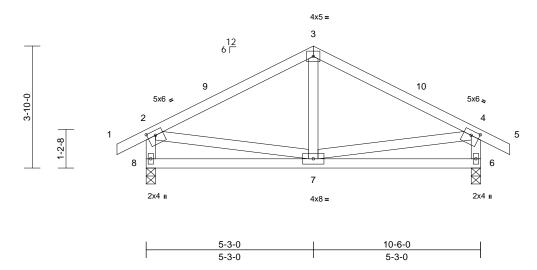
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	C02	Common	4	1	Job Reference (optional)	170597236

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Scale = 1:36.2

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [4:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 58 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6=0-3-8, 8=0-3-8

Max Horiz 8=69 (LC 13)

Max Uplift 6=-58 (LC 15), 8=-58 (LC 14)

Max Grav 6=574 (LC 22), 8=574 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-3=-499/196, 3-4=-499/196, 4-5=0/29, 2-8=-527/254, 4-6=-527/248

BOT CHORD 7-8=-74/214, 6-7=-61/214

WEBS 3-7=0/163, 2-7=0/276, 4-7=0/276

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Exterior(2R) 2-1-0 to 8-5-0, Exterior(2E) 8-5-0 to 11-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

January 8,2025

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

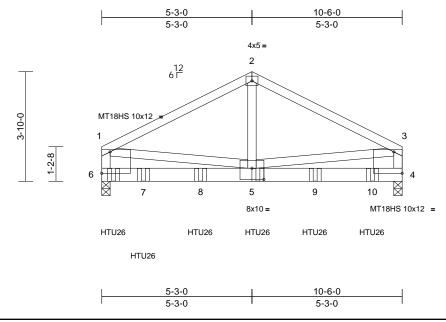
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Ply Job Truss Truss Type Qty 130 Hidden Lakes North-Roof-Plan 9 GRH 170597237 25010027-01 C03-2 Common Girder 2 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 07 17:15:53 ID:jKKMKZC9qZk19NEQg1K3ZAzy7dB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.3

Plate Offsets (X, Y): [1:Edge,0-9-0], [4:Edge,0-9-0], [5:0-5-0,0-4-12]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.11	5-6	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 126 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 6-1,4-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-3-8, 6=0-3-8

Max Horiz 6=-58 (LC 8)

Max Uplift 4=-268 (LC 13), 6=-453 (LC 12)

Max Grav 4=3967 (LC 6), 6=5459 (LC 5) FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-3968/283, 2-3=-3968/283,

TOP CHORD

1-6=-2397/191, 3-4=-2404/192 5-6=-107/861, 4-5=-92/820

WEBS 2-5=-157/3234, 1-5=-157/2731,

3-5=-159/2772

NOTES

BOT CHORD

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

- Web connected as follows: 2x4 1 row at 0-9-0 oc, Except member 2-5 2x4 - 2 rows staggered at 0-9-0 oc. All loads are considered equally applied to all plies,
- except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces
- 11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-5-0 from the left end to 9-5-8 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1817 Ib down and 199 lb up at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-58, 2-3=-58, 4-6=-19

Concentrated Loads (lb)

Vert: 6=-1584 (B), 5=-1291 (B), 7=-1291 (B), 8=-1291 (B), 9=-1291 (B), 10=-1268 (B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

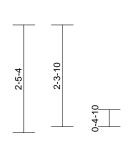
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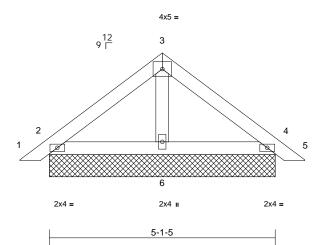


Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	PB01	Piggyback	2	1	Job Reference (optional)	170597238

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:53 ID:RGxTmVNiyPBXw6T0fVpOy9zy8TC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-0-8-0	2-6-11	5-1-5	5-9-5
0-8-0	2-6-11	2-6-11	0-8-0





Scale = 1:26.1

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=5-1-5, 4=5-1-5, 6=5-1-5

Max Horiz 2=51 (LC 13)

Max Uplift 2=-26 (LC 14), 4=-32 (LC 15)

Max Grav 2=199 (LC 21), 4=199 (LC 22),

6=172 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-108/72, 3-4=-108/72,

4-5=0/24

BOT CHORD 2-6=-13/45, 4-6=-5/45

WEBS 3-6=-71/6

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5) design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 8,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

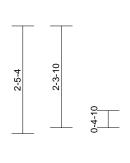


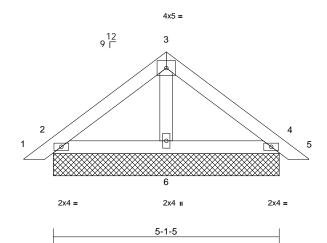
Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH
25010027-01	PB02	Piggyback	25	1	Job Reference (optional)

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:54 ID:9pipHojyapleMK1YD1peUnzy8RS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page:	
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-0-8-0	2-6-11	5-1-5	5-9-5	
0-8-0	2-6-11	2-6-11	0-8-0	





Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=5-1-5, 4=5-1-5, 6=5-1-5

Max Horiz 2=53 (LC 13)

Max Uplift 2=-26 (LC 14), 4=-33 (LC 15)

Max Grav 2=205 (LC 21), 4=205 (LC 22),

6=178 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-112/74, 3-4=-112/74, 4-5=0/25

BOT CHORD 2-6=-14/47, 4-6=-5/47

WEBS 3-6=-73/6

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 8,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

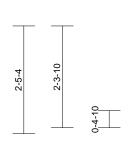
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

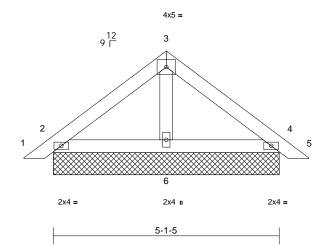


Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	PB03	Piggyback	2	1	Job Reference (optional)	170597240

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-0-8-0	2-6-11	5-1-5	5-9-5	
0-8-0	2-6-11	2-6-11	0-8-0	





Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI	•	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=5-1-5, 4=5-1-5, 6=5-1-5

Max Horiz 2=53 (LC 13)

Max Uplift 2=-26 (LC 14), 4=-33 (LC 15)

Max Grav 2=205 (LC 21), 4=205 (LC 22),

6=178 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-112/74, 3-4=-112/74, 4-5=0/25

2-6=-14/47, 4-6=-5/47 BOT CHORD

WEBS 3-6=-73/6

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 8,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

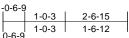
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

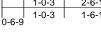


Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	PB04	Piggyback	13	1	Job Reference (optional)	597241

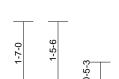
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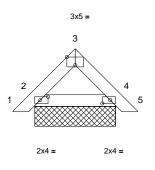
Page: 1





12 12 F





2-0-6

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-8,Edge], [4:0-2-6,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-2-0 oc purlins. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=2-0-6, 4=2-0-6 Max Horiz 2=-32 (LC 12)

Max Uplift 2=-12 (LC 14), 4=-12 (LC 15)

Max Grav 2=126 (LC 21), 4=126 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-58/39, 3-4=-58/39, 4-5=0/22

BOT CHORD 2-4=-6/54

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

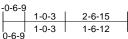


January 8,2025

Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH	
25010027-01	PB05	Piggyback	1	1	Job Reference (optional)	

Run: 8.73 S. Dec. 5.2024 Print: 8.730 S.Dec. 5.2024 MiTek Industries. Inc. Tue Jan 07.17:15:54 ID:a4Hna9tCe_UA5xl7IWyMnNzy3kR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

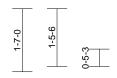
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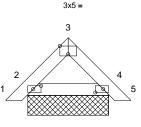




12 12 F







2-0-6

2x4 =

2x4 =

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-8,Edge], [4:0-2-6,0-1-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-2-0 oc purlins. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=2-0-6, 4=2-0-6 Max Horiz 2=31 (LC 13)

Max Uplift 2=-11 (LC 14), 4=-11 (LC 15)

Max Grav 2=122 (LC 21), 4=122 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/21, 2-3=-56/38, 3-4=-56/38, 4-5=0/21

BOT CHORD 2-4=-6/52

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

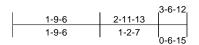


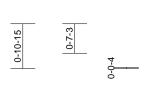
January 8,2025

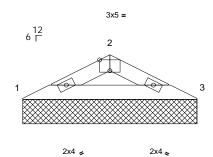
Job	Truss	Truss Type	Qty	Ply	130 Hidden Lakes North-Roof-Plan 9 GRH
25010027-01	V03	Valley	1	1	Job Reference (optional)

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Page: 1







3-6-12

Scale = 1:23.6

Plate Offsets (X, Y): [2:0-2-8,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-6-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=3-6-12, 3=3-6-12

Max Horiz 1=-11 (LC 19)

Max Uplift 1=-14 (LC 14), 3=-14 (LC 15)

Max Grav 1=154 (LC 20), 3=154 (LC 21)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-258/114, 2-3=-258/114

BOT CHORD 1-3=-89/222

NOTES

FORCES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

- 7) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 14 lb uplift at joint 3.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

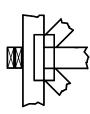
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

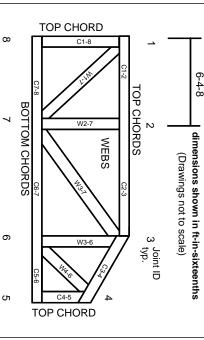
Industry Standards:

ANSI/TPI1: DSB-22:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITEK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.