

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

Phone #:919-775-1450

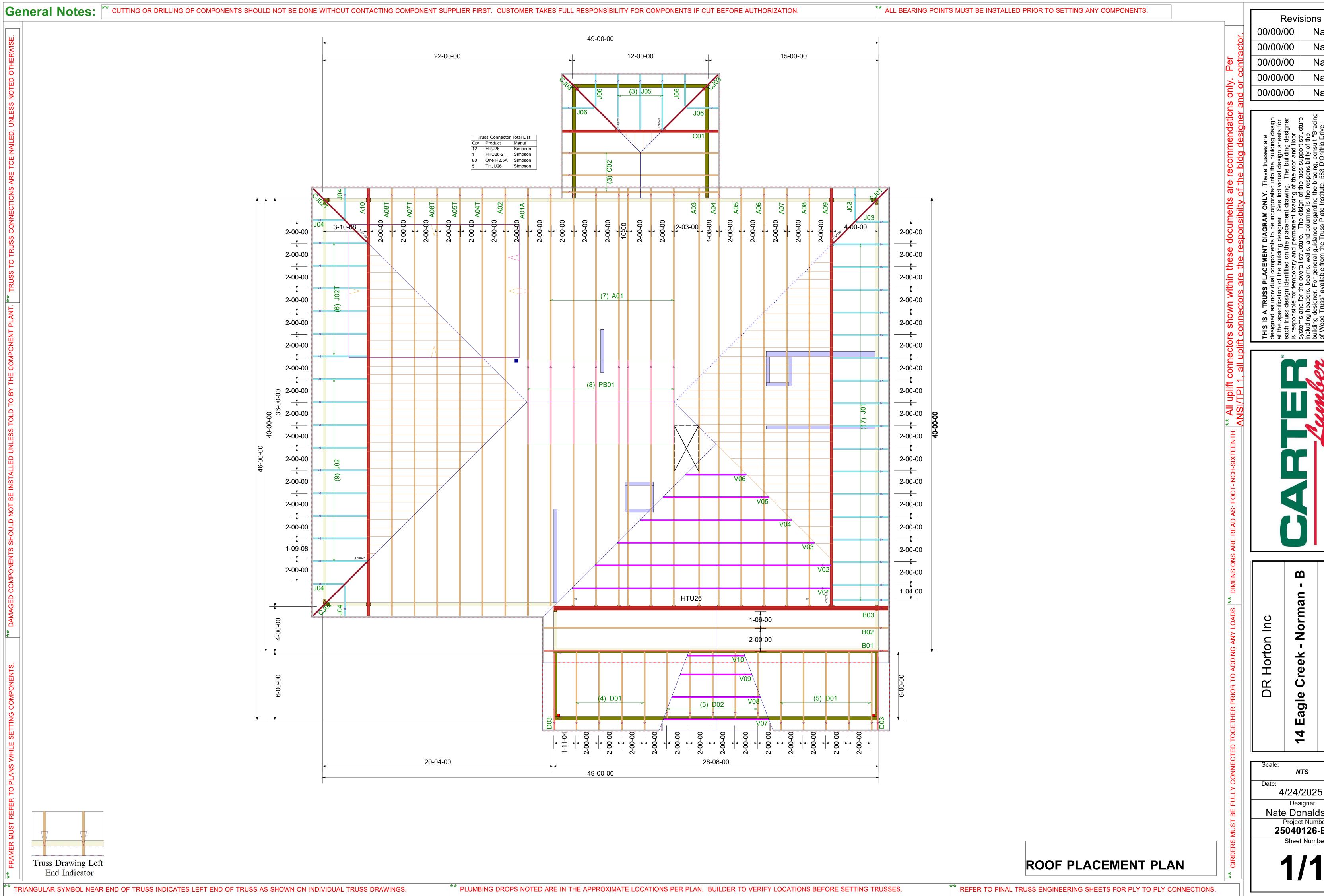
Builder: DR Horton Inc 14 Eagle Creek -Model: Norman - B



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

Norman Creek agle

Layout

4/24/2025 Designer: Nate Donaldson Project Number: **25040126-B** Sheet Number:



RE: 25040126

14 Eagle Creek - Norman B - Roof

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: DR Horton Inc Project Name: 25040126

Lot/Block: 14 Model: Norman B

Address: Subdivision: Eagle Creek

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 46 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	173034328	A01	4/29/2025	21	173034348	C02	4/29/2025
2	173034329	A01A	4/29/2025	22	173034349	CJ01	4/29/2025
3	173034330	A02	4/29/2025	23	173034350	CJ02	4/29/2025
4	173034331	A03	4/29/2025	24	173034351	CJ02T	4/29/2025
5	173034332	A04	4/29/2025	25	173034352	CJ03	4/29/2025
6	173034333	A04T	4/29/2025	26	173034353	D01	4/29/2025
7	173034334	A05	4/29/2025	27	173034354	D02	4/29/2025
8	173034335	A05T	4/29/2025	28	173034355	D03	4/29/2025
9	173034336	A06	4/29/2025	29	173034356	J01	4/29/2025
10	173034337	A06T	4/29/2025	30	173034357	J02	4/29/2025
11	173034338	A07	4/29/2025	31	173034358	J02T	4/29/2025
12	173034339	A07T	4/29/2025	32	173034359	J03	4/29/2025
13	173034340	A08	4/29/2025	33	173034360	J04	4/29/2025
14	173034341	A08T	4/29/2025	34	173034361	J05	4/29/2025
15	173034342	A09	4/29/2025	35	173034362	J06	4/29/2025
16	173034343	A10	4/29/2025	36	173034363	PB01	4/29/2025
17	173034344	B01	4/29/2025	37	173034364	V01	4/29/2025
18	173034345	B02	4/29/2025	38	173034365	V02	4/29/2025
19	173034346	B03	4/29/2025	39	173034366	V03	4/29/2025
20	173034347	C01	4/29/2025	40	173034367	V04	4/29/2025

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.





RE: 25040126 - 14 Eagle Creek - Norman B - Roof

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: DR Horton Inc Project Name: 25040126

Lot/Block: 14 Subdivision: Eagle Creek

Address:

City, County: State:

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No.	Seal#	Truss Name	Date
41	173034368	V05	4/29/2025
42	173034369	V06	4/29/2025
43	173034370	V07	4/29/2025
44	173034371	V08	4/29/2025
45	173034372	V09	4/29/2025
46	173034373	V10	4/29/2025

Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A01	Piggyback Base	7	1	Job Reference (optional)	173034328

-0-10-8

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:49 ID:ARhTLG4gG40CZOUuqLFfRFzuUJ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

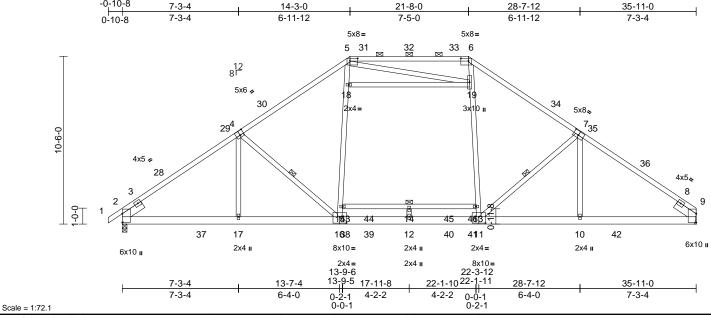


Plate Offsets (X, Y): [4:0-3-0,0-3-4], [5:0-5-12,0-2-0], [6:0-5-12,0-2-0], [7:0-4-0,0-3-0], [11:0-5-0,0-4-12], [16:0-5-0,0-4-12]

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	0.73	Vert(LL)	-0.28	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.36	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 259 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E

2x6 SP 2400F 2.0E *Except* 15-13:2x4 SP **BOT CHORD**

No.2 2x4 SP No.3

WEBS

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-2-0 oc purlins, except

2-0-0 oc purlins (4-10-1 max.): 5-6. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 14-15,13-14. **WEBS** 1 Row at midpt 4-16, 7-11

REACTIONS

2=0-3-8, 9= Mechanical (size)

Max Horiz 2=233 (LC 13) Max Grav 2=2079 (LC 47), 9=2035 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-5=-3103/0, 5-6=-2081/58,

6-9=-3107/0 **BOT CHORD** 2-17=-151/2479, 12-17=-41/2480,

10-12=0/2483, 9-10=-9/2483, 14-15=-3/7,

13-14=-3/7

WEBS 4-17=-136/117, 4-16=-531/321, 15-16=0/965,

15-18=0/1063, 5-18=0/1073, 6-19=0/1072, 13-19=0/1060, 11-13=0/962, 7-11=-538/322,

7-10=-130/103, 12-14=-270/0,

18-19=-144/26, 5-19=-168/159

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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 9-2-1, Exterior(2R) 9-2-1 to 26-8-15, Interior (1) 26-8-15 to 32-3-14, Exterior(2E) 32-3-14 to 35-11-0 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.
- 200.0lb AC unit load placed on the bottom chord, 17-11-8 from left end, supported at two points, 5-0-0 apart.
- 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.
- 10) Refer to girder(s) for truss to truss connections.
- 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



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)





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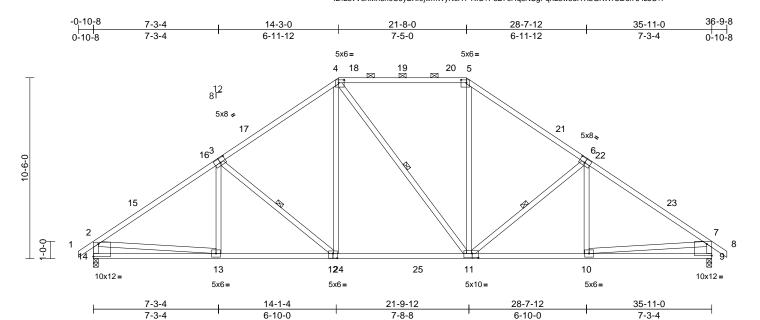


Plate Offsets (X, Y): [3:0-4-0,0-3-0], [4:0-3-12,0-2-0], [5:0-3-12,0-2-0], [6:0-4-0,0-3-0], [9:Edge,0-8-2], [11:0-4-4,0-3-0], [12:0-3-0,0-3-4], [14:Edge,0-8-12]

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)	-0.20	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.34	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 230 lb	FT = 20%

LUMBER

Scale = 1:66.9

TOP CHORD 2x4 SP No.1 *Except* 4-5:2x4 SP 2400F

2.0E, 1-3,6-8:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 11-4:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(5-3-13 max.): 4-5.

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

bracing.

WEBS 1 Row at midpt 3-12, 4-11, 6-11

REACTIONS 9=0-3-8, 14=0-3-8 (size)

Max Horiz 14=-264 (LC 12)

Max Uplift 9=-152 (LC 15), 14=-152 (LC 14)

Max Grav 9=1700 (LC 47), 14=1706 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-4=-2519/244, 4-5=-1627/259 5-7=-2510/244, 7-8=0/34, 2-14=-1763/192,

7-9=-1759/191

BOT CHORD 13-14=-266/594, 10-13=-189/2017,

9-10=-125/451

WEBS 3-13=-20/182, 3-12=-602/208, 4-12=-46/699, 4-11=-190/197, 5-11=-26/666, 6-11=-609/208,

6-10=-19/185, 2-13=-20/1588, 7-10=0/1599

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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 9-2-1. Exterior(2R) 9-2-1 to 26-8-15. Interior (1) 26-8-15 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 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



April 29,2025

Page: 1

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Job Truss Truss Type Qty Ply 14 Eagle Creek - Norman B - Roof 173034330 25040126 A02 Hip Job Reference (optional)

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

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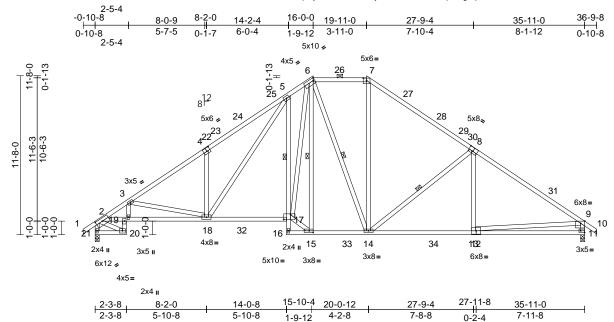


Plate Offsets (X, Y): [2:0-5-13,0-2-8], [4:0-3-0,0-3-0], [6:0-1-4,0-2-4], [7:0-3-0,0-2-3], [8:0-4-0,0-3-4], [9:0-3-8, Edge], [11:Edge,0-1-8], [15:0-3-8,0-1-8], [17:0-6-0,0-4-4]

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	0.96	Vert(LL)	-0.16	17-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.27	17-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.15	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 277 lb	FT = 20%

LUMBER

Scale = 1:84.5

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E *Except* 20-19,5-16:2x4 **BOT CHORD**

SP No.3

WEBS 2x4 SP No.3 *Except*

18-5,15-6,14-6,14-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and

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

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

bracing, Except: 6-0-0 oc bracing: 15-16

1 Row at midpt 5-17

WEBS 1 Row at midpt 6-15, 6-14, 8-14

REACTIONS 11=0-3-8, 21=0-3-8 (size)

Max Horiz 21=-294 (LC 12)

Max Uplift 11=-148 (LC 15), 21=-143 (LC 14)

Max Grav 11=1806 (LC 53), 21=1828 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-3873/376, 3-5=-3134/416,

5-6=-2324/341, 6-7=-1625/249,

7-9=-2635/222, 9-10=0/34, 2-21=-2045/162,

9-11=-1829/189

BOT CHORD 20-21=-208/732, 19-20=-101/426,

2-19=-399/3104, 18-19=-435/3205, 17-18=-48/1843, 16-17=-29/10,

5-17=-854/309, 15-16=-27/92, 14-15=-1/1522, 13-14=-34/2104,

11-13=-149/2104

WEBS 3-18=-805/236, 4-18=-489/255,

> 5-18=-276/1118. 15-17=0/1682. 6-17=-256/1819, 6-15=-682/9,

6-14=-169/231, 7-14=-46/633 8-14=-731/232, 8-13=0/294, 2-20=-671/199,

9-12=0/1618, 3-19=-49/504

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) -0-10-8 to 2-5-4, Interior (1) 2-5-4 to 10-11-1, Exterior(2R) 10-11-1 to 24-11-15, Interior (1) 24-11-15 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21 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



Page: 1

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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A03	Hip	1	1	Job Reference (optional)	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:51 ID:ARhTLG4gG40CZOUuqLFfRFzuUJ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

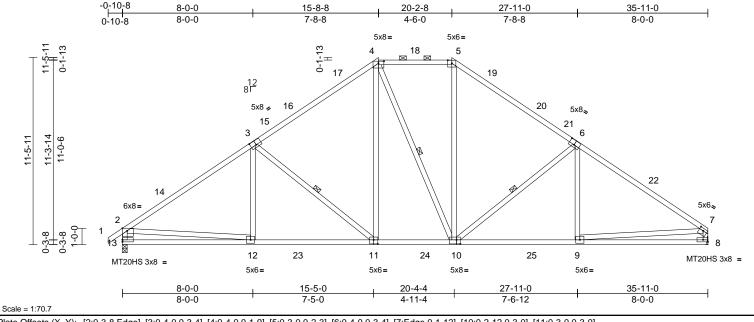


Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-4-0,0-3-4], [4:0-4-0,0-1-9], [5:0-3-0,0-2-3], [6:0-4-0,0-3-4], [7:Edge,0-1-12], [10:0-2-12,0-3-0], [11:0-3-0,0-3-0]

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	1.00	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.26	11-12	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 237 lb	FT = 20%

LUMBER

BRACING

TOP CHORD 2x4 SP 2400F 2.0E *Except* 4-5.1-3:2x4 SP

No.2, 6-7:2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 11-4,10-4,10-5:2x4 SP

No.2

TOP CHORD Structural wood sheathing directly applied,

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

(4-4-12 max.): 4-5.

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

bracing. WEBS

1 Row at midpt 3-11, 4-10, 6-10 8= Mechanical, 13=0-3-8

REACTIONS (size) Max Horiz 13=279 (LC 11)

Max Uplift 8=-129 (LC 15), 13=-148 (LC 14)

Max Grav 8=1736 (LC 53), 13=1797 (LC 51)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/34, 2-4=-2629/229, 4-5=-1624/249,

5-7=-2622/232, 2-13=-1826/190,

7-8=-1778/170

BOT CHORD 12-13=-319/680, 9-12=-195/2092,

8-9=-93/386

3-12=0/282, 3-11=-714/228, 4-11=-76/706,

4-10=-199/206, 5-10=-60/695,

6-10=-725/233, 6-9=0/278, 2-12=0/1588,

7-9=-3/1733

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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 10-7-9, Exterior(2R) 10-7-9 to 25-3-7, Interior (1) 25-3-7 to 32-2-2, Exterior(2E) 32-2-2 to 35-9-4 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.
- All plates are MT20 plates unless otherwise indicated. 7)
- 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint
- 12) 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.
- 13) 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.

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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A04	Hip	1	1	I73034332 Job Reference (optional)	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:51 ID:iqBy7bCFx5VBi6JDyeW6H_yNcHf-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

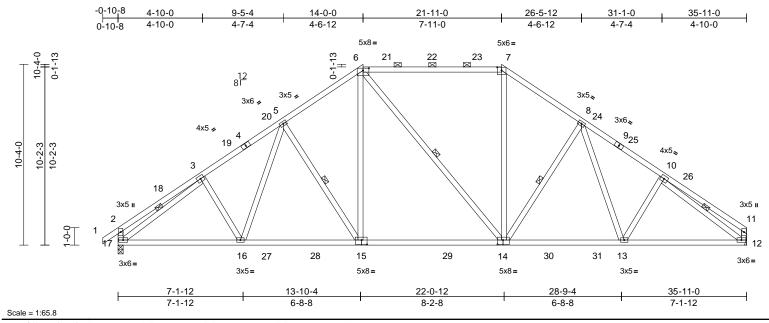


Plate Offsets (X, Y): [6:0-4-0,0-1-9], [7:0-3-0,0-2-3], [14:0-3-12,0-3-0], [15:0-3-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.14	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.25	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 240 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 14-6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals, and

2-0-0 oc purlins (4-6-8 max.): 6-7. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD Rigid ce bracing.

WEBS 1 Row at midpt 6-14, 3-17, 10-12, 5-15,

8-14

REACTIONS (size) 12= Mechanical, 17=0-3-8

Max Horiz 17=252 (LC 11)

Max Uplift 12=-134 (LC 15), 17=-154 (LC 14) Max Grav 12=1682 (LC 47), 17=1745 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-532/122, 3-5=-2494/249,

5-6=-2114/261, 6-7=-1689/261, 7-8=-2101/262, 8-10=-2483/250, 10-11=-435/89, 2-17=-458/132,

11-12=-347/89

BOT CHORD 16-17=-237/1990, 13-16=-141/1899,

12-13=-118/1984

6-15=-67/799, 6-14=-177/186, 7-14=-27/749,

3-17=-2100/92, 10-12=-2187/127,

3-16=-68/156, 5-16=-45/308, 5-15=-542/186,

8-14=-540/186, 8-13=-47/320, 10-13=-73/155

NOTES

WEBS

 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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 8-11-1, Exterior(2R) 8-11-1 to 26-11-15, Interior (1) 26-11-15 to 32-2-2, Exterior(2E) 32-2-2 to 35-9-4 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) 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.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. 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



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Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:51 ID:egFsPeqBTGTksBs34wxc_EyNcI9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

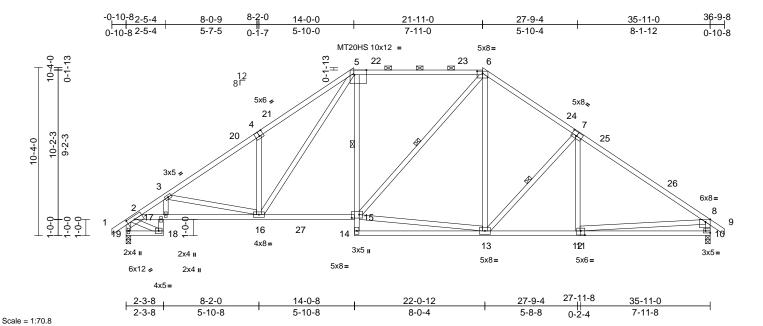


Plate Offsets (X, Y): [2:0-5-13,0-2-8], [4:0-3-0,0-3-4], [5:0-8-13,Edge], [6:0-4-0,0-1-9], [7:0-4-0,0-3-0], [8:0-3-8,Edge], [10:Edge,0-1-8], [11:0-3-0,0-3-0], [15:0-5-8,0-2-8]

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	0.78	Vert(LL)	-0.14	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.28	13-14	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 249 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E *Except* 18-17,5-14:2x4 **BOT CHORD**

SP No.3

WEBS 2x4 SP No.3 *Except*

5-16,15-6,19-2,10-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 5-6

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

bracing. Except:

1 Row at midpt 5-15 **WEBS** 1 Row at midpt 6-15, 7-13

REACTIONS (size) 10=0-3-8 19=0-3-8

Max Horiz 19=-263 (LC 12)

Max Uplift 10=-119 (LC 15), 19=-116 (LC 14) Max Grav 10=1678 (LC 47), 19=1715 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-3708/301, 3-5=-2955/357, 5-6=-1800/256, 6-8=-2452/253, 8-9=0/34,

2-19=-1961/143, 8-10=-1720/172

18-19=-196/673, 17-18=-94/395, BOT CHORD

2-17=-321/2958, 16-17=-353/3046, 15-16=-44/1729, 14-15=0/152, 5-15=-23/348,

13-14=0/127, 12-13=-3/1939,

10-12=-171/1939

WFBS 3-16=-783/219, 5-16=-269/1102,

13-15=0/1432, 6-15=-132/352, 6-13=-83/542,

7-13=-592/207, 2-18=-617/186, 8-11=0/1357, 3-17=-41/477, 4-16=-484/254, 7-12=0/193

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) -0-10-8 to 2-5-4, Interior (1) 2-5-4 to 9-1-5. Exterior(2R) 9-1-5 to 26-11-15. Interior (1) 26-11-15 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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.
- 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, with BCDL = 10.0psf.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 10. 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



Page: 1

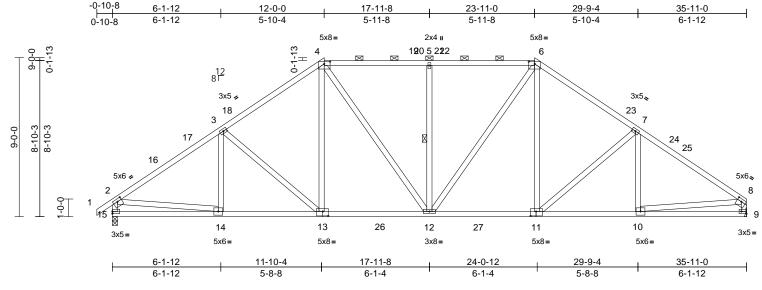
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Job		Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
250401	126	A05	Hip	1	1	Job Reference (optional)	173034334

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:52 ID:eDIjYHEWSilvxQTc33YaMPyNcHd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:65.2

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [8:Edge,0-1-12], [9:Edge,0-1-8], [11:0-3-12,0-3-0], [13:0-3-12,0-3-0]

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	0.80	Vert(LL)	-0.12	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 237 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 12-4,12-6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except end verticals, and

2-0-0 oc purlins (3-5-10 max.): 4-6. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

WEBS 1 Row at midpt 5-12

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

Max Horiz 15=221 (LC 11)

Max Uplift 9=-140 (LC 15), 15=-159 (LC 14)

Max Grav 9=1621 (LC 47), 15=1670 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/34, 2-3=-2453/207, 3-4=-2147/254,

4-5=-2028/276, 5-6=-2028/276,

6-7=-2150/258, 7-8=-2456/205,

2-15=-1746/191, 8-9=-1705/171

14-15=-226/444, 12-14=-195/1971,

10-12=-98/1980, 9-10=-57/260 3-14=-68/117, 3-13=-469/163, 4-13=-35/543,

4-12=-150/519, 5-12=-666/176,

6-12=-150/520, 6-11=-37/550, 7-11=-481/166,

7-10=-75/113, 2-14=-61/1652, 8-10=-63/1740

NOTES

WEBS

BOT CHORD

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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 6-11-1, Exterior(2R) 6-11-1 to 17-0-15, Interior (1) 17-0-15 to 18-10-1, Exterior(2R) 18-10-1 to 28-11-15, Interior (1) 28-11-15 to 32-2-2, Exterior(2E) 32-2-2 to 35-9-4 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.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 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) 15. 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



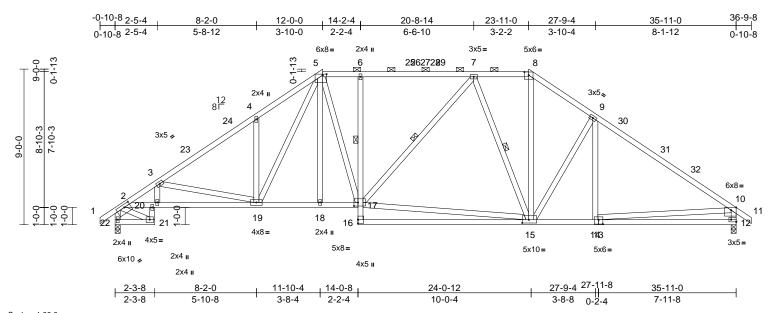
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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A05T	Hip	1	1	Job Reference (optional)	173034335

Run: 8 73 S. Feb 19 2025 Print: 8 730 S. Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:52 ID:a3NcqKrR?tjS6V0SBLz43fyNcI7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:66.6

Plate Offsets (X, Y): [2:0-4-4,0-2-0], [5:0-2-12,0-0-12], [8:0-3-0,0-2-3], [10:0-3-8,Edge], [12:Edge,0-1-8], [13:0-3-0,0-3-0], [15:0-4-8,0-2-4], [17:0-2-12,0-2-8]

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	0.91	Vert(LL)	-0.21	15-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.46	15-16	>930	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.12	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 274 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP 2400F 2.0E *Except* 22-21:2x4 SP **BOT CHORD**

No.2, 21-20,6-16:2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 12-10:2x4 SP No.2

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied,

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

(3-2-15 max.): 5-8. Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

1 Row at midpt 6-17

WEBS 1 Row at midpt 7-17, 7-15 REACTIONS (size)

12=0-3-8, 22=0-3-8 Max Horiz 22=-231 (LC 12)

Max Uplift 12=-160 (LC 15), 22=-155 (LC 14)

Max Grav 12=1566 (LC 41), 22=1563 (LC 41)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-3051/362, 3-4=-2334/251,

4-5=-2343/390, 5-6=-1744/268,

6-7=-1741/268, 7-8=-1405/245,

8-9=-1756/268, 9-10=-2038/208, 10-11=0/34,

2-22=-1617/173, 10-12=-1481/206 **BOT CHORD** 21-22=-185/509, 20-21=-87/294,

2-20=-357/2471, 19-20=-391/2542,

18-19=-109/1532, 17-18=-110/1530,

16-17=0/186, 6-17=-550/140, 15-16=0/274,

14-15=-40/1569, 12-14=-201/1569 3-19=-748/230, 5-18=0/148, 5-17=-171/651,

15-17=-108/1377, 7-17=-84/284.

7-15=-714/216, 8-15=-104/831,

9-15=-482/196, 9-14=-19/115,

2-21=-472/172, 10-13=-55/1096

3-20=-26/346, 4-19=-458/211, 5-19=-223/804

- 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) -0-10-8 to 2-5-4, Interior (1) 2-5-4 to 6-11-1, Exterior(2R) 6-11-1 to 17-0-15, Interior (1) 17-0-15 to 18-10-1. Exterior(2R) 18-10-1 to 28-11-15. Interior (1) 28-11-15 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 and 12. 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



Page: 1

NOTES

WEBS

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

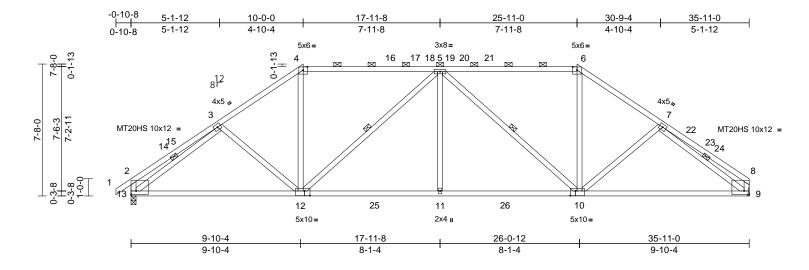
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overal 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	14 Eagle Creek - Norman B - Roof	
25040126	A06	Hip	1	1	Job Reference (optional)	173034336

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:52 ID:W_YDOeH0WxFLQ1mNIvdWWFyNcHZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.9

Plate Offsets (X, Y): [2:Edge,0-2-8], [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [8:Edge,0-2-8], [10:0-3-12,0-3-4], [12:0-3-12,0-3-4]

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)	-0.19	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.40	12-13	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.10	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 215 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3 *Except* 12-5,10-5:2x4 SP No.2

BRACING TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or

3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 4-6

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

bracing.

WEBS 1 Row at midpt 5-12, 5-10, 3-13, 7-9

REACTIONS 9= Mechanical, 13=0-3-8 (size)

Max Horiz 13=190 (LC 11)

Max Uplift 9=-144 (LC 15), 13=-164 (LC 14)

Max Grav 9=1594 (LC 6), 13=1646 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/34, 2-3=-584/105, 3-4=-2335/232,

4-5=-1933/238, 5-6=-1933/238,

6-7=-2336/233, 7-8=-492/64, 2-13=-488/126,

8-9=-382/78

BOT CHORD 11-13=-215/2515, 9-11=-173/2515 WFBS

3-12=-238/204, 4-12=-18/869,

5-12=-852/187, 5-11=0/418, 5-10=-852/187,

6-10=-18/873, 7-10=-254/200,

3-13=-1866/179, 7-9=-1961/186

NOTES

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) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 4-11-1. Exterior(2R) 4-11-1 to 15-0-15. Interior (1) 15-0-15 to 20-10-1, Exterior(2R) 20-10-1 to 30-10-12, Interior (1) 30-10-12 to 32-2-2, Exterior(2E) 32-2-2 to 35-9-4 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.
- 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, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint
- 12) 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.

13) 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



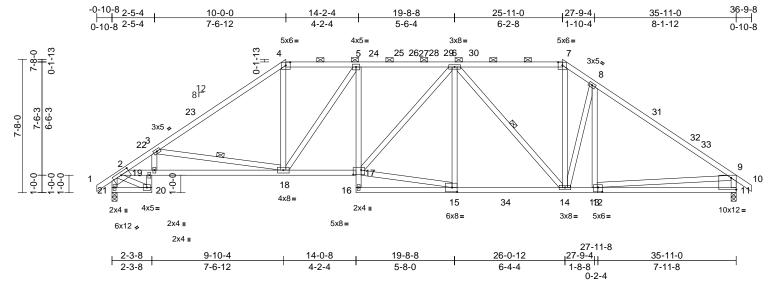
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	14 Eagle Creek - Norman B - Roof	
25040126	A06T	Hip	1	1	Job Reference (optional)	173034337

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:53 ID:WSUNF0thXUz9LpArJm0Y84yNcl5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.3

Plate Offsets (X, Y): [2:0-5-15,0-2-0], [4:0-3-0,0-2-3], [7:0-3-0,0-2-3], [11:Edge,0-8-2], [12:0-3-0,0-3-0], [15:0-3-8,0-3-0], [17:0-5-8,0-3-4]

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	0.91	Vert(LL)	-0.13	18-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.26	18-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.14	11	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 2400F 2.0E **BOT CHORD**

2x4 SP 2400F 2.0E *Except* 21-20:2x4 SP

No.2, 20-19,5-16:2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 21-2,11-9:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals, and

2-0-0 oc purlins (4-11-15 max.): 4-7.

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

bracing.

WEBS 1 Row at midpt 3-18, 6-14

REACTIONS 11=0-3-8, 21=0-3-8 (size) Max Horiz 21=-200 (LC 12)

Max Uplift 11=-164 (LC 15), 21=-160 (LC 14)

Max Grav 11=1616 (LC 6), 21=1629 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-3753/377, 3-4=-2633/237,

4-5=-2167/261, 5-6=-2625/256, 6-7=-1864/243, 7-8=-2234/316,

8-9=-2339/212, 9-10=0/34, 2-21=-1840/174,

9-11=-1648/208

20-21=-166/522, 19-20=-73/325, BOT CHORD

2-19=-379/3144, 18-19=-423/3186, 17-18=-195/2584, 16-17=0/97, 5-17=-39/311,

15-16=0/175, 14-15=-141/2368, 13-14=-45/1878, 11-13=-186/1878

3-18=-1291/326, 4-18=-9/1111,

5-18=-829/189, 6-17=-102/347

6-14=-840/155, 7-14=-139/1052, 8-14=-598/181, 2-20=-510/143,

9-12=-107/1373 3-19=0/485 6-15=-232/107

15-17=-143/2231, 8-13=-20/171

NOTES

WFBS

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) -0-10-8 to 2-5-4, Interior (1) 2-5-4 to 4-11-1. Exterior(2R) 4-11-1 to 15-0-15. Interior (1) 15-0-15 to 20-10-1, Exterior(2R) 20-10-1 to 30-11-15, Interior (1) 30-11-15 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21 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



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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A07	Hip	1	1	Job Reference (optional)	173034338

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:53 ID:_B6cb_leHFNC2BLZsc8l3TyNcHY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

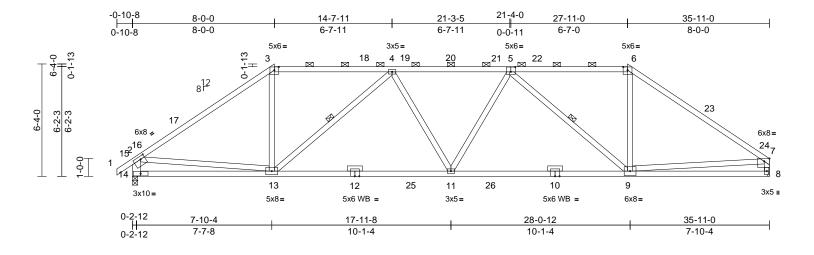


Plate Offsets (X, Y): [2:0-3-0,0-2-0], [3:0-3-0,0-2-3], [5:0-3-0,0-3-4], [6:0-3-0,0-2-3], [7:0-3-8,Edge]

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	0.84	Vert(LL)	-0.25	9-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.43	9-11	>984	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 203 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 3-5,5-6:2x4 SP

No.1

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 14-2:2x6 SP 2400F

2.0E, 8-7:2x4 SP No.1

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-13 max.): 3-6.

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

bracing.

WEBS 1 Row at midpt 4-13, 5-9 REACTIONS 8= Mechanical 14=0-3-8 (size)

Max Horiz 14=159 (LC 11)

Max Uplift 8=-148 (LC 15), 14=-169 (LC 14) Max Grav 8=1589 (LC 6), 14=1643 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/43, 2-3=-2469/204, 3-4=-2027/233,

4-6=-3009/238, 6-7=-2485/199, 2-14=-1683/208, 7-8=-1651/186

BOT CHORD 13-14=-311/850, 11-13=-277/2847,

9-11=-243/2847, 8-9=-145/544 WEBS

3-13=-15/934, 4-13=-1149/229, 4-11=-10/315, 5-11=-12/311, 5-9=-1124/231, 6-9=-23/926,

2-13=-208/1526, 7-9=-167/1672

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) -0-10-8 to 2-8-10, Exterior(2R) 2-8-10 to 13-0-15, Interior (1) 13-0-15 to 22-10-1, Exterior(2R) 22-10-1 to 32-2-2. Exterior(2E) 32-2-2 to 35-9-4 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.
- 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) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint
- 12) 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.

13) 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





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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A07T	Hip	1	1	Job Reference (optional)	173034339

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:53 ID:w1AVt2vapPLkCGvP_uZFmjyNcl2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

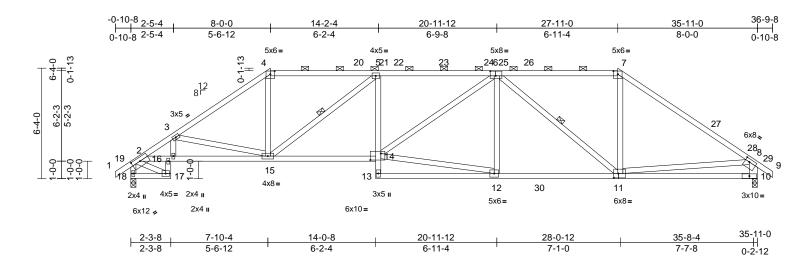


Plate Offsets (X, Y): [2:0-5-13,0-2-8], [4:0-3-0,0-2-3], [6:0-3-12,0-3-4], [7:0-3-0,0-2-3], [8:0-3-0,0-2-0], [11:0-3-4,0-3-0], [14:0-7-4,0-4-8]

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	0.62	Vert(LL)	-0.17	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.32	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.15	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 222 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E *Except* 18-17:2x4 SP **BOT CHORD**

No.2, 17-16,5-13:2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 12-14:2x4 SP No.2,

18-2:2x4 SP No.1, 10-8:2x6 SP No.2

BRACING TOP CHORD

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals, and

2-0-0 oc purlins (4-3-6 max.): 4-7. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-15, 6-11

REACTIONS (size) 10=0-3-8, 18=0-3-8 Max Horiz 18=-169 (LC 12)

Max Uplift 10=-169 (LC 15), 18=-164 (LC 14)

Max Grav 10=1616 (LC 6), 18=1623 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/60, 2-3=-3521/352, 3-4=-2841/253,

4-5=-2372/259, 5-7=-3447/303,

7-8=-2407/210, 8-9=0/47, 2-18=-1832/181,

8-10=-1642/213

17-18=-156/554, 16-17=-72/323, **BOT CHORD**

2-16=-316/2812, 15-16=-346/2900,

14-15=-326/3449, 13-14=0/126, 5-14=0/385, 12-13=-9/181, 10-12=-231/2862

WEBS 3-15=-882/221, 4-15=-21/1187,

5-15=-1409/227, 12-14=-226/2722,

6-14=-139/674, 6-12=-265/125, 6-11=-1200/207, 7-11=-14/887,

2-17=-492/145, 8-11=-224/1476,

3-16=-20/392

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) -0-10-8 to 2-5-4, Exterior(2R) 2-5-4 to 13-0-15. Interior (1) 13-0-15 to 22-10-1. Exterior(2R) 22-10-1 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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, with BCDL = 10.0psf.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 10. 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



April 29,2025

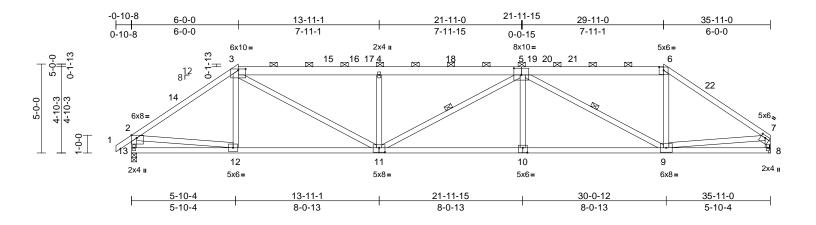
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	14 Eagle Creek - Norman B - Roof	
25040126	A08	Hip	1	1	Job Reference (optional)	173034340

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:53 ID:xZDM0gJvpsevHVVyz1AD8uyNcHW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:64.8

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	0.81	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.35	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 215 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 3-5,5-6:2x6 SP

No.2

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 13-2,8-7:2x4 SP No.2

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied or

5-6-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-0 max.): 3-6.

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

bracing.

1 Row at midpt 5-11, 5-9

REACTIONS

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

Max Horiz 13=127 (LC 11)

Max Uplift 8=-151 (LC 15), 13=-171 (LC 14)

Max Grav 8=1502 (LC 40), 13=1536 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/55, 2-3=-2145/213, 3-4=-3214/372,

4-6=-3208/369, 6-7=-2151/214, 2-13=-1483/197, 7-8=-1447/179

BOT CHORD 12-13=-166/422, 9-12=-369/3217,

8-9=-77/293

3-12=-73/154, 3-11=-281/1679, **WEBS**

4-11=-677/222, 5-11=-137/142, 5-10=0/322,

5-9=-1664/283, 6-9=-28/740,

2-12=-178/1585, 7-9=-167/1625

NOTES

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) -0-10-8 to 2-8-10, Exterior(2R) 2-8-10 to 11-0-15, Interior (1) 11-0-15 to 24-10-1, Exterior(2R) 24-10-1 to 32-2-2. Exterior(2E) 32-2-2 to 35-9-4 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.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 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



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

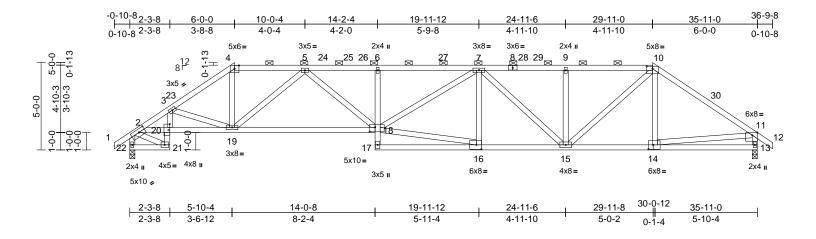
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	14 Eagle Creek - Norman B - Roof	
25040126	A08T	Hip	1	1	Job Reference (optional)	173034341

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:53 ID:tPIGIjxqL1cSRa2o5Jbjr8yNcI0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.9

Plate Offsets (X, Y): [2:0-4-5,0-2-4], [4:0-3-0,0-2-3], [10:0-4-0,0-1-9], [11:0-3-8,Edge], [14:0-3-4,0-3-0], [16:0-3-8,0-3-0], [18:0-3-12,0-3-0], [20:0-4-0,0-0-14]

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	0.65	Vert(LL)	-0.25	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.48	18-19	>882	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.17	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 219 lb	FT = 20%

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TOP CHORD 2x4 SP 2400F 2.0E *Except* 4-8,8-10:2x4 SP

No.2

2x4 SP 2400F 2.0E *Except* 21-20,6-17:2x4 SP No 3 **WEBS** 2x4 SP No.3 *Except* 16-18,22-2,13-11:2x4

SP No.2

BRACING

TOP CHORD

BOT CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals, and

2-0-0 oc purlins (2-5-12 max.): 4-10. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 13=0-3-8, 22=0-3-8

> Max Horiz 22=-137 (LC 12) Max Uplift 13=-171 (LC 15), 22=-166 (LC 14)

Max Grav 13=1535 (LC 40), 22=1534 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/74, 2-3=-2951/369, 3-4=-2689/286,

TOP CHORD 4-5=-2203/252, 5-6=-3950/459,

6-7=-3911/462, 7-9=-2776/324, 9-10=-2778/325, 10-11=-2132/218, 11-12=0/56, 2-22=-1604/185,

11-13=-1474/202

21-22=-142/497, 20-21=-69/270, **BOT CHORD**

2-20=-364/2326, 19-20=-378/2440, 18-19=-432/3318, 17-18=0/113, 6-18=-338/126, 16-17=-37/209,

15-16=-366/3186, 13-15=-119/1739 WFBS 3-19=-421/161, 4-19=-87/1222, 5-19=-1470/277, 5-18=-112/852

16-18=-334/3021, 7-18=-149/851, 7-16=-411/130, 10-14=-93/103, 2-21=-432/145. 11-14=-193/1534. 3-20=-64/200, 9-15=-493/136 7-15=-620/108, 10-15=-228/1413

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) -0-10-8 to 2-8-10, Exterior(2R) 2-8-10 to 11-0-15, Interior (1) 11-0-15 to 24-10-1, Exterior(2R) 24-10-1 to 33-2-6, Exterior(2E) 33-2-6 to 36-9-8 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 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 22 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



April 29,2025

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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A09	Half Hip Girder	1	2	Job Reference (optional)	173034342

Run: 8.73 S. Feb 19 2025 Print: 8.730 S. Feb 19 2025 MiTek Industries. Inc. Fri Apr. 25 12:12:55 ID:23WHI6T2IrG3LU?SEGvGAdyNcHJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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44 12 45

8x10=

43

25-1-9

5-3-13

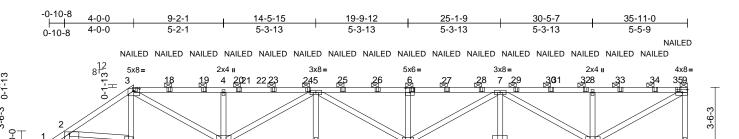
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46

30-5-7

5-3-13

NAILED NAILED NAILED NAILED NAILED NAILED NAILED



42

19-9-12

5-3-13

13

4x8=

Scale = 1:66.4

Plate Offsets (X, Y): [3:0-4-0,0-1-9], [6:0-3-0,0-3-0], [11:0-3-0,0-2-8], [12:0-5-0,0-4-8], [15:0-5-0,0-4-8], [17:Edge,0-6-12]

37 15 38

8x10=

39

14-5-15

5-3-13

NAILED NAILED NAILED NAILED NAILED

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2x4 II

41

пп

36

NAILED

9-2-

5-3-13

16

5x6=

3-10-4

3-10-4

Special

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	0.72	Vert(LL)	-0.31	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.50	13-14	>861	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 452 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.3

BRACING TOP CHORD

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

2-0-0 oc purlins (4-0-8 max.): 3-9.

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

bracing

REACTIONS (size) 10= Mechanical, 17=0-3-8

Max Horiz 17=121 (LC 9)

> Max Uplift 10=-621 (LC 9), 17=-546 (LC 9)

Max Grav 10=2872 (LC 33), 17=2734 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/56, 2-3=-3771/804, 3-4=-6052/1312,

4-5=-6044/1309, 5-7=-7659/1663,

7-8=-4032/880, 8-9=-4032/880,

9-10=-2717/653, 2-17=-2662/552

16-17=-180/414, 14-16=-1698/7593 13-14=-1698/7593, 11-13=-1463/6570,

10-11=-46/77

WEBS 3-16=-124/112, 3-15=-749/3407,

4-15=-757/292, 5-15=-1824/420, 5-14=0/341, 5-13=-26/88, 6-13=-589/265,

7-13=-288/1278, 7-12=0/332, 7-11=-2952/662, 8-11=-727/292 9-11=-983/4596, 2-16=-623/2874

NOTES

BOT CHORD

- 2-ply truss to be connected together with 10d 1) (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 OC

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 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.
- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 621 lb uplift at joint
- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Page: 1

nn 9

NAILED

2x4 II

49 50

35-11-0

5-5-9

пп

48

4711

5x10=

- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 289 lb down and 68 lb up at 4-0-0 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=-60, 2-3=-60, 3-9=-60, 10-17=-20 Concentrated Loads (lb)



April 29,2025

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

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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A09	Half Hip Girder	1	2	Job Reference (optional)	173034342

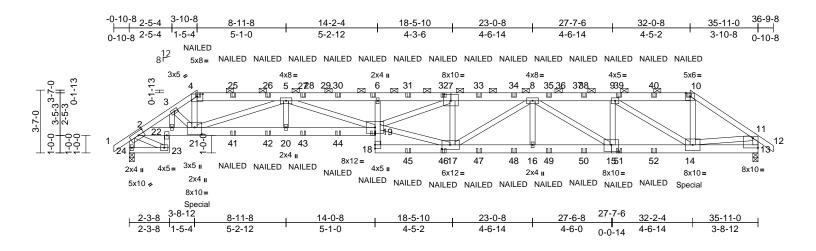
Vert: 3=-106 (F), 16=-289 (F), 6=-106 (F), 13=-29 (F), 18=-106 (F), 19=-106 (F), 20=-106 (F), 23=-106 (F), 24=-106 (F), 25=-106 (F), 26=-106 (F), 27=-106 (F), 28=-106 (F), 29=-106 (F), 30=-106 (F), 32=-106 (F), 33=-106 (F), 34=-106 (F), 35=-125 (F), 36=-29 (F), 37=-29 (F), 38=-29 (F), 39=-29 (F), 40=-29 (F), 41=-29 (F), 42=-29 (F), 43=-29 (F), 44=-29 (F), 45=-29 (F), 46=-29 (F), 47=-29 (F), 48=-29 (F), 49=-29 (F), 50=-35 (F)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:55 ID:23WHI6T2IrG3LU?SEGvGAdyNcHJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	A10	Hip Girder	1	2	Job Reference (optional)	173034343

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:56 ID:23WHI6T2IrG3LU?SEGvGAdyNcHJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:65.8

Plate Offsets (X, Y): [2:0-4-1,0-2-8], [4:0-4-0,0-1-9], [7:0-5-0,0-4-8], [10:0-3-0,0-2-3], [13:Edge,0-6-12], [15:0-5-0,0-4-8], [17:0-5-8,0-3-0,0-2-3]	5-0], [21:0-5-0,0-4	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	0.40	Vert(LL)	-0.37	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.60	6	>717	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.18	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 514 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-7,7-10:2x6 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 24-23,6-18:2x4 SP No.2. 23-22:2x4 SP No.3

WFBS 2x4 SP No.3 *Except* 17-19:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-10.

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

bracing.

REACTIONS (size) 13=0-3-8, 24=0-3-8

Max Horiz 24=-105 (LC 10)

Max Uplift 13=-600 (LC 13), 24=-648 (LC 12)

Max Grav 13=2698 (LC 20), 24=2706 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/82, 2-3=-5138/1300, 3-4=-5478/1373, 4-5=-4592/1161, 5-6=-11395/2746,

6-8=-11182/2696, 8-9=-5899/1340, 9-10=-3068/716, 10-11=-3684/822,

11-12=0/57, 2-24=-2921/718, 11-13=-2606/603

BOT CHORD

23-24=-333/1097, 22-23=-191/670, 2-22=-1045/3989, 21-22=-1116/4273,

20-21=-2276/9211. 19-20=-2276/9211. 18-19=-5/181, 6-19=-424/210,

17-18=-277/1154, 16-17=-1722/7507, 14-16=-1722/7507, 13-14=-107/395

WEBS

3-21=-212/651, 4-21=-538/2367,

5-21=-4948/1217, 5-20=0/204, 5-19=-554/2371, 17-19=-1685/7201,

7-19=-877/3334, 7-17=-2023/618,

8-17=-228/747. 8-16=0/258. 8-15=-1939/487. 9-15=-187/1214. 9-14=-3388/797.

10-14=-327/1707. 11-14=-621/2758.

3-22=-330/110. 2-23=-1045/328

NOTES

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 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row 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.

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.

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.

- 8) 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.
- 11) LGT2 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 24 and 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) LGT2 Hurricane ties must have two studs in line below the truss.



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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	14 Eagle Creek - Norman B - Roof	
25040126	A10	Hip Girder	1	2	Job Reference (optional)	173034343

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:56 ID:23WHI6T2IrG3LU?SEGvGAdyNcHJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 249 lb down and 77 lb up at 3-10-8, and 276 lb down and 66 Ib up at 31-11-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

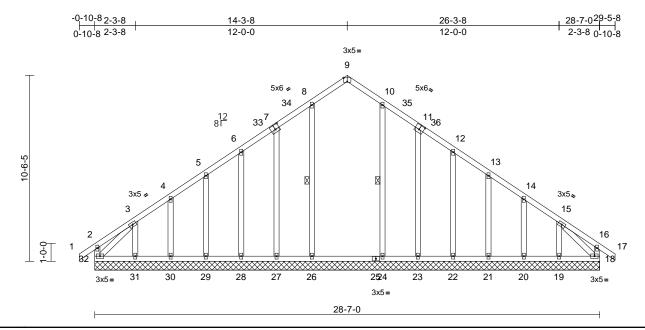
LOAD CASE(S) Standard Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-60, 2-4=-60, 4-10=-60, 10-11=-60, 11-12=-60, 23-24=-20, 19-22=-20, 13-18=-20 Concentrated Loads (lb) Vert: 4=-129 (B), 6=-129 (B), 21=-249 (B), 14=-276 (B), 10=-99 (B), 25=-129 (B), 26=-129 (B), 27=-129 (B), 30=-129 (B), 31=-99 (B), 32=-99 (B), 33=-99 (B), 34=-99 (B), 35=-99 (B), 38=-99 (B), 39=-99 (B), 40=-99 (B), 45=-27 (B), 46=-27 (B), 47=-27 (B), 48=-27 (B), 49=-27 (B), 50=-27 (B), 51=-27 (B),

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	B01	Common Supported Gable	1	1	Job Reference (optional)	173034344

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:57 ID:6HIMdKhboF_ljU2kzdh98WzuUJU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:65.2

Plate Offsets (X, Y): [7:0-3-0,0-3-0], [9:0-2-8,Edge], [11:0-3-0,0-3-0]

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 201 lb	FT = 20%

TOP CHORD BOT CHORD

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

2x4 SP No 2

BRACING

LUMBER

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. WEBS

1 Row at midpt

8-26, 10-24 18=28-7-0, 19=28-7-0, 20=28-7-0,

REACTIONS (size)

21=28-7-0, 22=28-7-0, 23=28-7-0, 24=28-7-0, 26=28-7-0, 27=28-7-0, 28=28-7-0, 29=28-7-0, 30=28-7-0,

31=28-7-0, 32=28-7-0 Max Horiz 32=256 (LC 13)

Max Uplift 18=-6 (LC 13), 19=-159 (LC 15), 20=-51 (LC 15), 21=-59 (LC 15), 22=-45 (LC 15), 23=-81 (LC 15),

24=-5 (LC 15), 26=-15 (LC 14), 27=-77 (LC 14), 28=-46 (LC 14), 29=-59 (LC 14), 30=-51 (LC 14), 31=-162 (LC 14), 32=-26 (LC 12)

Max Grav

18=277 (LC 28), 19=219 (LC 31), 20=188 (LC 31), 21=193 (LC 26), 22=194 (LC 26), 23=194 (LC 22), 24=346 (LC 6), 26=346 (LC 5), 27=194 (LC 21), 28=196 (LC 30). 29=192 (LC 30), 30=188 (LC 30),

31=225 (LC 30), 32=285 (LC 27)

(lb) - Maximum Compression/Maximum **FORCES** Tension

3-4=-232/101, 4-5=-184/81, 5-6=-153/60,

TOP CHORD 2-32=-129/52, 1-2=0/33, 2-3=-51/31,

6-8=-138/60, 8-9=-153/75, 9-10=-153/75, 10-12=-138/46, 12-13=-144/37,

13-14=-175/58. 14-15=-220/82.

15-16=-46/32, 16-17=0/33, 16-18=-129/65 31-32=-109/265, 30-31=-109/265,

29-30=-109/265, 28-29=-109/265, 27-28=-109/265, 26-27=-109/266

24-26=-109/266, 23-24=-109/266, 22-23=-107/264, 21-22=-107/264, 20-21=-107/264, 19-20=-107/264,

18-19=-107/264

WEBS 8-26=-237/56, 7-27=-167/93, 6-28=-130/71, 5-29=-141/81, 4-30=-136/76, 3-31=-165/180,

10-24=-237/46, 11-23=-167/97, 12-22=-130/70, 13-21=-141/82,

14-20=-136/76, 15-19=-159/176, 3-32=-349/155, 15-18=-336/127

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for
- 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) -0-10-8 to 2-3-8, Interior (1) 2-3-8 to 11-3-8, Exterior(2R) 11-3-8 to 17-3-8, Interior (1) 17-3-8 to 26-3-8, Exterior(2E) 26-3-8 to 29-5-8 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

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- 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.
- 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.
- * 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.

LOAD CASE(S) Standard



April 29,2025

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 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	14 Eagle Creek - Norman B - Roof	
25040126	B02	Common	1	1	I73034345 Job Reference (optional)	i

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:57

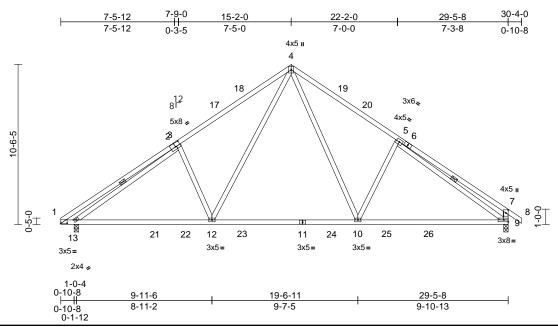


Plate Offsets (X, Y): [1:0-5-0,0-0-2], [2:0-4-0,0-3-0], [7:0-2-8,0-1-12]

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	0.70	Vert(LL)	-0.25	10-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.38	9-10	>909	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 174 lb	FT = 20%

LUMBER

Scale = 1:75.9

TOP CHORD 2x4 SP 2400F 2.0E *Except* 1-2,6-8:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 *Except* 11-9:2x4 SP No.1 2x4 SP No.3 *Except* 12-4,10-4:2x4 SP No.2

WEBS BRACING

TOP CHORD

Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 12-13.

WEBS 1 Row at midpt 2-13, 5-9 REACTIONS 9=0-3-8, 13=0-3-8 (size)

Max Horiz 13=246 (LC 13)

Max Uplift 9=-111 (LC 15), 13=-103 (LC 14)

Max Grav 9=1352 (LC 31), 13=1359 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1791/172, 3-4=-1851/252,

4-5=-1781/240, 5-7=-728/210, 7-8=0/33, 7-9=-605/198

BOT CHORD 1-13=-62/621, 12-13=-168/1528,

10-12=0/995, 9-10=-22/1470

WEBS 3-12=-387/271, 4-12=-156/820, 4-10=-128/806, 5-10=-360/267,

2-13=-1100/97, 5-9=-1203/27

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) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-2-0. Exterior(2R) 12-2-0 to 18-2-0. Interior (1) 18-2-0 to 27-4-0, Exterior(2E) 27-4-0 to 30-4-0 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
- 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.
- 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) 9 and 13. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

DOL=1.60



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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	B03	Common Girder	1	3	Job Reference (optional)	173034346

Run: 8 73 F. Jan 17 2024 Print: 8 730 F. Jan 17 2024 MiTek Industries. Inc. Mon Apr 28 15:28:45 ID:FbcZ3CTlkw2gOJx2i3q9k?zuUIU-oZ4f2tSrwQZ?PdbBsB4vkswPR4zLOjc0SE8YaHzM8k1

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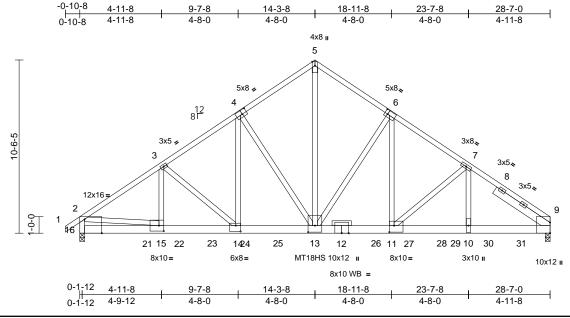


Plate Offsets (X, Y): [2:1-0-8,Edge], [4:0-3-8,0-3-0], [6:0-2-4,0-3-0], [11:0-3-8,0-4-12], [13:0-4-12,0-5-0], [14:0-3-8,0-4-4], [15:0-3-8,0-4-0]

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	0.96	Vert(LL)	-0.20	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.37	10-11	>924	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.10	9	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							1	
BCDL	10.0	1									Weight: 672 lb	FT = 20%

LUMBER

Scale = 1:70

TOP CHORD 2x4 SP 2400F 2 0F BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 13-5:2x4 SP No.1, 16-2:2x4 SP 2400F 2.0E, 15-2,4-14,6-11:2x4

OTHERS 2x4 SP No.3

Right 2x6 SP 2400F 2.0E -- 4-0-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracina.

REACTIONS (lb/size) 9=13161/0-3-8, (min. 0-3-6), 16=11359/0-3-8, (min. 0-1-8)

Max Horiz 16=238 (LC 9)

Max Uplift 16=-485 (LC 12)

Max Grav 9=14476 (LC 6), 16=11488 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown

TOP CHORD 2-3=-16292/592, 3-4=-14670/46

4-5=-11954/0, 5-6=-11975/0, 6-7=-16153/0,

7-8=-19649/0, 8-9=-9342/0, 2-16=-10904/432

16-21=-324/2348, 15-21=-324/2348,

BOT CHORD 15-22=-564/13589, 22-23=-564/13589,

14-23=-564/13589, 14-24=0/12071,

24-25=0/12071, 13-25=0/12071,

12-13=0/13306, 12-26=0/13306,

11-26=0/13306, 11-27=0/15903,

27-28=0/15903, 28-29=0/15903,

10-29=0/15903, 10-30=0/15903,

30-31=0/15903. 9-31=0/15903

5-13=0/12962 2-15=-256/11422

3-14=-2168/737, 3-15=-700/2404

4-14=-760/4794, 4-13=-4249/793, 6-13=-6446/0, 6-11=0/7365, 7-11=-3231/0,

7-10=0/4599

NOTES

- 3-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 - 3 rows staggered at 0-4-0 oc

- Web connected as follows: 2x4 1 row 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.
- 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.
- 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 MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 13 = 8%
- 10) Bearing capacity is increased by the plate at joint(s) 9. Plate must be within 1/4 in of bearing surface.
- 11) 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) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 485 lb uplift at joint
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2853 lb down and 633 lb up at 4-1-8, 1483 lb down and 163 lb up at 6-0-12, 1570 lb down and 160 lb up at 8-0-12, 1575 lb down and 156 lb up at 10-0-12, 1602 lb down and 151 lb up at 12-0-12, 1662 lb down and 145 lb up at 14-0-12, 1717 lb down and 140 lb up at 15-9-4, 2015 lb down at 18-0-4, 2015 lb down at 20-0-4, 2015 lb down at 22-0-4, 2015 lb down at 22-10-4, and 2015 lb down at 24-10-4, and 2015 lb down at 26-10-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others. 111



Continued on page 2

WFBS

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 overal 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	14 Eagle Creek - Norman B - Roof	
25040126	B03	Common Girder	1	3	Job Reference (optional)	173034346

Run: 8.73 E Jan 17 2024 Print: 8.730 E Jan 17 2024 MiTek Industries, Inc. Mon Apr 28 15:28:45 ID:FbcZ3CTlkw2gOJx2i3q9k?zuUIU-oZ4f2tSrwQZ?PdbBsB4vkswPR4zLOjc0SE8YaHzM8k1

Page: 2

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-58, 2-5=-58, 5-9=-58, 16-17=-19 Concentrated Loads (lb)

Vert: 12=-1590 (B), 13=-1529 (B), 21=-2853 (B), 22=-1483 (B), 23=-1438 (B), 24=-1437 (B), 25=-1484 (B), 26=-1741 (B), 27=-1741 (B), 28=-1741 (B), 29=-1741 (B), 30=-1741 (B), 31=-1741 (B)

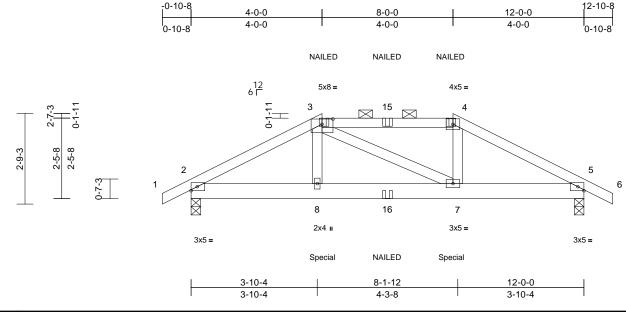


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	C01	Hip Girder	1	2	Job Reference (optional)	173034347

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:58 ID:7FKdqaJxDQ1LKkrDf?ITkezuo3z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.2

Plate Offsets	(X,	Y):	[3:0-4-0,0-1-15]
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			-				-					-
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	0.30	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 125 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

BOT CHORD bracing

REACTIONS (size)

2=0-3-8, 5=0-3-8 Max Horiz 2=-38 (LC 13)

Max Uplift 2=-166 (LC 12), 5=-166 (LC 13)

Max Grav 2=1100 (LC 37), 5=1100 (LC 37) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/35, 2-3=-1787/269, 3-4=-1519/264,

TOP CHORD

4-5=-1782/267, 5-6=0/35

BOT CHORD 2-8=-217/1545, 7-8=-217/1520,

5-7=-183/1541 3-8=0/367, 3-7=-80/71, 4-7=-3/369

WEBS NOTES

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 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-7-0 oc, Except member 3-7 2x4 - 1 row 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.
- 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.
- 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 5. 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.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 306 lb down and 55 lb up at 4-0-0, and 306 lb down and 55 Ib up at 7-11-4 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: 1-3=-60, 3-4=-60, 4-6=-60, 9-12=-20 Concentrated Loads (lb)

Vert: 4=-94 (B), 8=-306 (B), 7=-306 (B), 3=-94 (B), 15=-94 (B), 16=-43 (B)



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

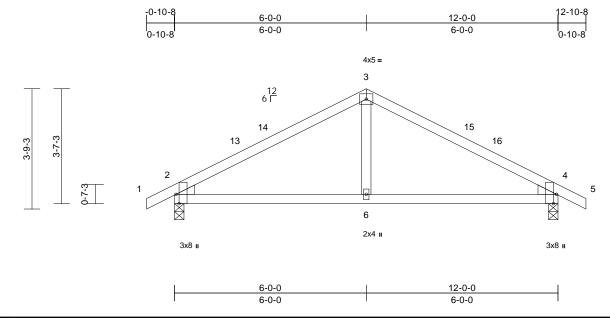
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	14 Eagle Creek - Norman B - Roof	
25040126	C02	Common	3	1	Job Reference (optional)	173034348

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:58 ID:WabKM7rMyGEZCuwxHOvYkJyM7xc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.1

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	0.62	Vert(LL)	-0.07	6-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.09	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 47 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8

Max Horiz 2=53 (LC 18)

Max Uplift 2=-61 (LC 14), 4=-61 (LC 15)

Max Grav 2=610 (LC 21), 4=610 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/23, 2-3=-675/234, 3-4=-675/234,

4-5=0/23

BOT CHORD 2-6=-89/502, 4-6=-89/502

WEBS 3-6=0/250

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) -0-10-8 to 2-1-8. Interior (1) 2-1-8 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Interior (1) 9-0-0 to 9-10-8, Exterior(2E) 9-10-8 to 12-10-8 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

- 3) 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.
- 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) 2 and 4. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

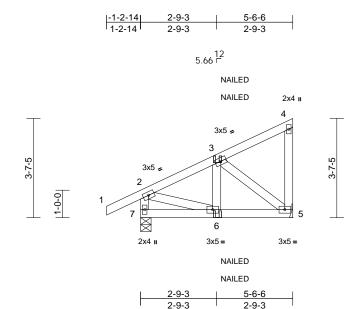


April 29,2025



Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	173034349

Run: 8.73 S. Feb 19 2025 Print: 8.730 S. Feb 19 2025 MiTek Industries. Inc. Fri Apr. 25 12:12:58 ID:2XSQcU3klP_uGGOvF7lloSyNcHr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scal	le =	1:4	1.9

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5= Mechanical, 7=0-4-9

Max Horiz 7=132 (LC 9)

Max Uplift 5=-62 (LC 9), 7=-59 (LC 12)

Max Grav 5=289 (LC 19), 7=394 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

2-7=-371/71, 1-2=0/35, 2-3=-293/49,

3-4=-72/32, 4-5=-100/28

BOT CHORD 6-7=-128/17, 5-6=-83/218

WEBS 2-6=-27/227, 3-6=-4/93, 3-5=-274/84

NOTES

TOP CHORD

- 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
- 3) 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.
- 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.
- All bearings are assumed to be User Defined .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 62 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) 7. This connection is for uplift only and does not consider lateral forces.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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=-60, 2-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 6=1 (F=0, B=0)



April 29,2025

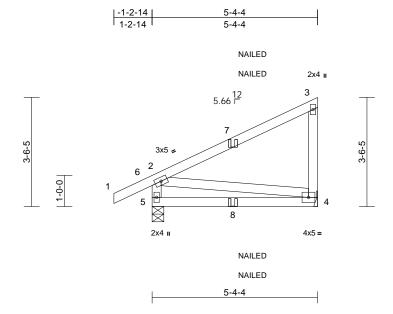
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	173034350

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:58 ID:xZDM0gJvpsevHVVyz1AD8uyNcHW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.3

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	0.83	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.08	4-5	>771	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.

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

bracing.

4= Mechanical, 5=0-4-9 REACTIONS (size)

Max Horiz 5=129 (LC 9)

Max Uplift 4=-58 (LC 12), 5=-58 (LC 12)

Max Grav 4=277 (LC 19), 5=399 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension 2-5=-349/76, 1-2=0/42, 2-3=-115/76, TOP CHORD

3-4=-227/65 BOT CHORD 4-5=-125/17 **WEBS** 2-4=-15/99

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
- 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
- 3) 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.
- 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.
- All bearings are assumed to be User Defined .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 58 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) 5. This connection is for uplift only and does not consider lateral forces.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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=-60, 2-3=-60, 4-5=-20

Concentrated Loads (lb)

Vert: 8=1 (F=0, B=0)



April 29,2025

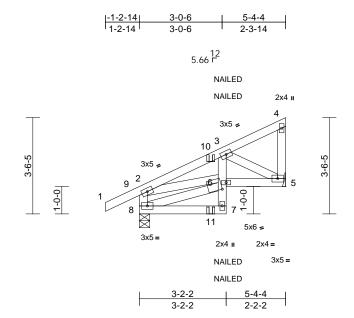
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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	CJ02T	Diagonal Hip Girder	1	1	Job Reference (optional)	173034351

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:58 ID:PmnkE0KXaAmmve48XkhSh5yNcHV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.2

Plate Offsets (X, Y): [6:0-2-6,0-2-6]

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	0.15	Vert(LL)	-0.01	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 37 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 7-3:2x4 SP No.3 BOT CHORD

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5= Mechanical, 8=0-4-9

Max Horiz 8=114 (LC 9)

Max Uplift 5=-60 (LC 12), 8=-57 (LC 12) Max Grav 5=277 (LC 19), 8=399 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-364/91, 1-2=0/42, 2-3=-418/73,

3-4=-56/25, 4-5=-80/27 BOT CHORD

7-8=-5/19, 6-7=-5/58, 3-6=-27/111,

5-6=-111/341

WEBS 6-8=-118/16, 2-6=-34/325, 3-5=-383/119

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
- 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 3) 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.

- 5) 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 60 lb uplift at joint
- 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.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) 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, 2-4=-60, 7-8=-20, 5-6=-20 Concentrated Loads (lb)

Vert: 11=1 (F=0, B=0)



April 29,2025

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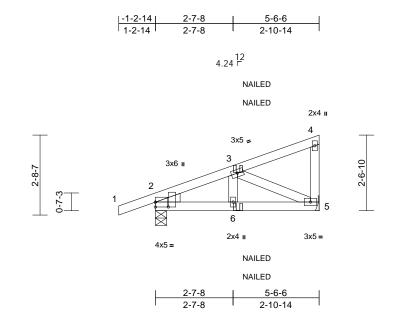
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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/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	14 Eagle Creek - Norman B - Roof	
25040126	CJ03	Diagonal Hip Girder	2	1	Job Reference (optional)	173034352

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:58 ID:J6zMZWEAeaGCcpO3JIB3UNzuo43-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.9

Plate Offsets (X, Y): [2:0-1-15,0-5-4]

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	0.17	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-6 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS (size) 2=0-4-9, 5= Mechanical

Max Horiz 2=93 (LC 11)

Max Uplift 2=-88 (LC 8), 5=-50 (LC 12)

Max Grav 2=429 (LC 19), 5=292 (LC 19)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/37, 2-3=-391/56, 3-4=-53/27,

4-5=-107/27

BOT CHORD 2-6=-60/347, 5-6=-60/347 WEBS 3-6=0/104, 3-5=-380/87

NOTES

FORCES

- 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; 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.
- 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.

- 5) 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.
- All bearings are assumed to be User Defined .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 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) 2. This connection is for uplift only and does not consider lateral forces.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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: 1-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-18 (F=-9, B=-9)



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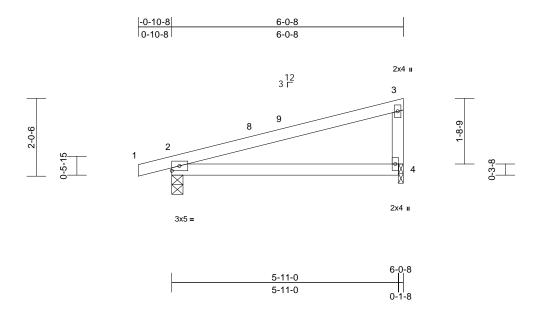
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	14 Eagle Creek - Norman B - Roof	
25040126	D01	Monopitch	9	1	Job Reference (optional)	173034353

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:58 ID:9uJsuE?u7ylsekqE_v7MDryM7xQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:30.1

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	0.75	Vert(LL)	-0.08	4-7	>894	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.15	4-7	>474	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	l		1							Weight: 22 lb	FT = 20%

LUMBER

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

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) 2=0-3-8, 4=0-1-8

Max Horiz 2=66 (LC 13)

Max Uplift 2=-68 (LC 10), 4=-41 (LC 14) Max Grav 2=390 (LC 21), 4=304 (LC 21)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/18, 2-3=-119/55, 3-4=-219/163

BOT CHORD 2-4=-86/127

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 and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-10-12, Exterior(2E) 2-10-12 to 5-10-12 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 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.
- 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.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 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.

LOAD CASE(S) Standard

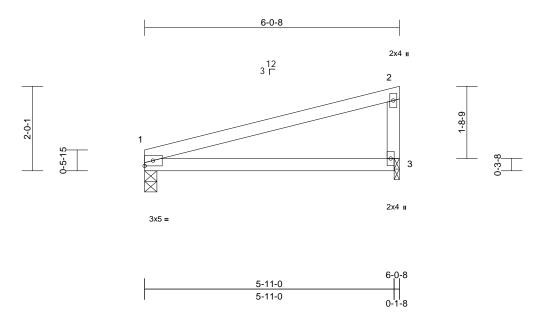


April 29,2025

Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	D02	Monopitch	5	1	Job Reference (optional)	173034354

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:58 ID:2fZNjb2PAAFI6L80DICINhyM7xM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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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	0.74	Vert(LL)	-0.08	3-6	>854	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.15	3-6	>463	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 20 lb	FT = 20%

LUMBER

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

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) 1=0-3-8, 3=0-1-8

Max Horiz 1=60 (LC 13)

Max Uplift 1=-32 (LC 10), 3=-40 (LC 14)

Max Grav 1=300 (LC 21), 3=300 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-76/54, 2-3=-215/164

BOT CHORD 1-3=-138/149

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 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
- 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 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.

- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



April 29,2025

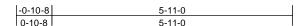
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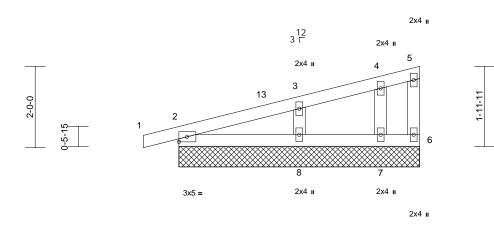
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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	D03	Monopitch Supported Gable	2	1	Job Reference (optional)	173034355

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:58 ID:YZUKun89W7GKeanXr32B9hzuo4B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:28.3

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

5-11-0

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (size)

2=5-11-0, 6=5-11-0, 7=5-11-0, 8=5-11-0

Max Horiz 2=62 (LC 10)

Max Uplift 2=-37 (LC 10), 6=-5 (LC 14), 7=-17 (LC 10), 8=-48 (LC 14)

Max Grav 2=208 (LC 21), 6=28 (LC 21),

7=125 (LC 21), 8=299 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-85/39, 3-4=-35/16, 4-5=-12/3,

5-6=-19/15

BOT CHORD 2-8=-41/40, 7-8=0/0, 6-7=0/0

3-8=-224/175, 4-7=-110/98 WFBS

NOTES

- 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) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-9-4, Exterior(2E) 2-9-4 to 5-9-4 zone; cantilever 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.
- 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.
- * 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.

LOAD CASE(S) Standard



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Page: 1

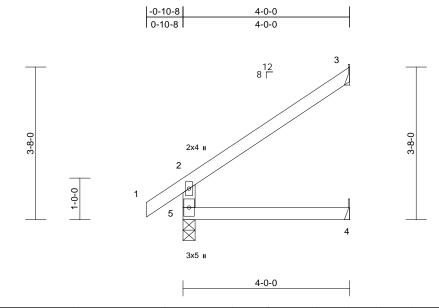
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Job	Truss	Truss Type Qty Ply 14 Eagle Creek - Norman B		14 Eagle Creek - Norman B - Roof		
25040126	J01	Jack-Open	17	1	Job Reference (optional)	173034356

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:59 ID:HX1F3NN1eOGCNGNvmamOrxyNcHR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.7

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	0.35	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8

Max Horiz 5=104 (LC 14) Max Uplift 3=-75 (LC 14)

Max Grav 3=166 (LC 21), 4=72 (LC 7), 5=345

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-318/99, 1-2=0/57, 2-3=-119/71

BOT CHORD 4-5=0/0

NOTES

- 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
- 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.
- 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.
- All bearings are assumed to be User Defined .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint

LOAD CASE(S) Standard



April 29,2025

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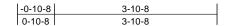
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

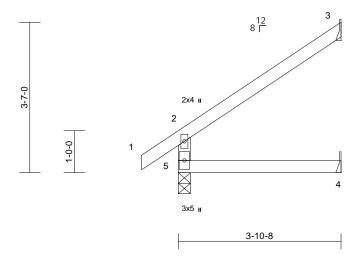


Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	J02	Jack-Open	9	1	Job Reference (optional)	173034357

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:59 ID:T0LGmOIThUrRcTxkilUS9byMbii-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.4

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	0.32	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=101 (LC 14)

Max Uplift 3=-73 (LC 14)

Max Grav 3=159 (LC 21), 4=70 (LC 7), 5=336

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-310/98, 1-2=0/57, 2-3=-115/68

BOT CHORD 4-5=0/0

NOTES

- 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
- 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.
- 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 73 lb uplift at joint

LOAD CASE(S) Standard



April 29,2025

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

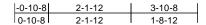
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

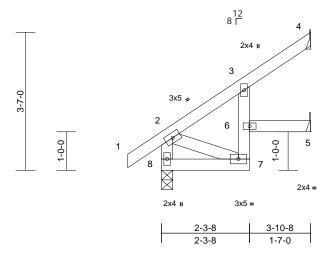


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type Qty Ply 14 Eagle Creek - Norman B -				
25040126	J02T	Jack-Open	6	1	Job Reference (optional)	173034358

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:59 ID:HX1F3NN1eOGCNGNvmamOrxyNcHR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:29.9

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	0.40	Vert(LL)	0.05	7	>958	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.07	7	>657	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	ļ									Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 7-3:2x4 SP No.3 **BOT CHORD**

2x4 SP No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 8=0-3-8

Max Horiz 8=101 (LC 14)

Max Uplift 4=-81 (LC 14)

Max Grav 4=189 (LC 21), 5=33 (LC 7), 8=336

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-316/68, 1-2=0/57, 2-3=-118/34,

3-4=-92/97

7-8=-185/73, 6-7=-60/49, 3-6=-50/74, 5-6=0/0 BOT CHORD

2-7=-81/200

WFBS 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 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
- 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.

- 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 81 lb uplift at joint

LOAD CASE(S) Standard



April 29,2025

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

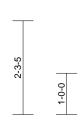
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

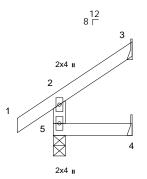


Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	J03	Jack-Open	2	1	Job Reference (optional)	173034359

Run: 8.73 S. Feb 19.2025 Print: 8.730 S. Feb 19.2025 MiTek Industries. Inc. Fri Apr. 25.12:12:59 ID:IBXn85_LPF6uwBMZK9gf0_yNcHy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1.	-0-10-8	l 1-10-15 l
H	0.10-0	







1-10-15

Scale = 1:28

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	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							1	
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8

Max Horiz 5=54 (LC 14)

Max Uplift 3=-38 (LC 14), 4=-4 (LC 14)

Max Grav 3=56 (LC 21), 4=32 (LC 7), 5=217

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-196/88, 1-2=0/51, 2-3=-57/32

BOT CHORD 4-5=0/0

- 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
- 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.
- 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.
- All bearings are assumed to be User Defined .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 4 and 38 lb uplift at joint 3.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



Page: 1

April 29,2025

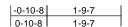
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

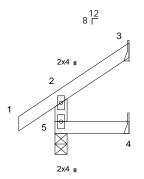


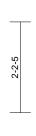
Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	J04	Jack-Open	4	1	Job Reference (optional)	173034360

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:59 ID:IBXn85_LPF6uwBMZK9gf0_yNcHy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









1-9-7

Scale = 1:27.8

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	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8

Max Horiz 5=51 (LC 14)

Max Uplift 3=-36 (LC 14), 4=-4 (LC 14), 5=-1

(LC 14)

Max Grav 3=49 (LC 21), 4=30 (LC 7), 5=210

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-189/88, 1-2=0/51, 2-3=-54/30

BOT CHORD 4-5=0/0

NOTES

- 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
- 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.

- 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 4 lb uplift at joint 4 and 36 lb uplift at joint 3.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



April 29,2025

Page: 1

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

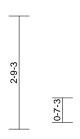
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

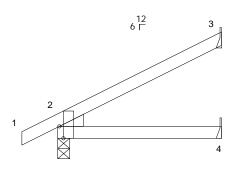


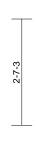
Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	J05	Jack-Open	3	1	Job Reference (optional)	173034361

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:59 ID:f3mFdEIJS7vUiaH15InEBQzuo4_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f









Page: 1

3x8 II

4-0-0

Scale = 1:28.2

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

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	0.31	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical

Max Horiz 2=86 (LC 14)

Max Uplift 2=-20 (LC 14), 3=-52 (LC 14)

Max Grav 2=319 (LC 21), 3=154 (LC 21),

4=72 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/37. 2-3=-65/55

BOT CHORD 2-4=-85/71

NOTES

- 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
- 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 3) 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.

- 5) 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 52 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



April 29,2025

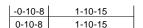
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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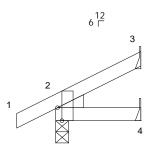


Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	J06	Jack-Open	4	1	Job Reference (optional)	173034362

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:59 ID:3NwyhR7Wlp8U1QCKHMXydTzuo4C-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1









3x8 ı

1-10-15

Scale = 1:25.9

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

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	0.08	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4=

Mechanical Max Horiz 2=49 (LC 14)

Max Uplift 2=-18 (LC 14), 3=-23 (LC 14)

Max Grav 2=195 (LC 21), 3=58 (LC 21), 4=32

(LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/34. 2-3=-30/26

TOP CHORD

BOT CHORD 2-4=-30/29

NOTES

- 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
- 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 3) 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.

- 5) 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 23 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



April 29,2025

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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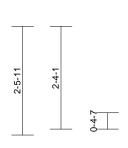
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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)

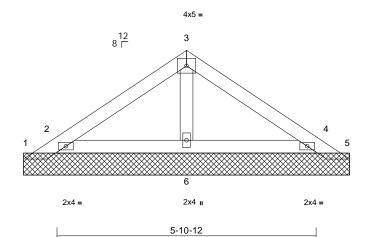


Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	PB01	Piggyback	8	1	Job Reference (optional)	173034363

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:12:59 ID:s0NFHZaKSJvGyLAdY7oNGuyM8Gc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

0-8-12			
	2-11-6	5-10-12	6-7-8
0-8-12	2-11-6	2-11-6	0-8-12





Scale = 1:26.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 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) 1=7-5-0, 2=7-5-0, 4=7-5-0, 5=7-5-0, 6=7-5-0

Max Horiz 1=54 (LC 11)

Max Uplift 1=-156 (LC 21), 2=-99 (LC 14),

4=-91 (LC 15), 5=-154 (LC 22) 1=70 (LC 14), 2=433 (LC 21),

Max Grav

4=421 (LC 22), 5=49 (LC 15), 6=180 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-71/129, 2-3=-115/69, 3-4=-115/69,

4-5=-47/117

2-6=-49/43, 4-6=-49/43

WFBS 3-6=-94/22

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) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 4-1-11, Exterior(2E) 4-1-11 to 7-1-11 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

- 3) 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.
- 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. * 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 99 lb uplift at joint 2, 91 lb uplift at joint 4, 156 lb uplift at joint 1, 154 lb uplift at joint 5, 99 lb uplift at joint 2 and 91 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



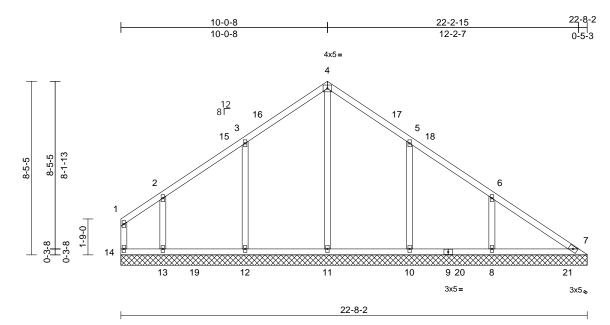
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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V01	Valley	1	1	I7 Job Reference (optional)	73034364

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:59 ID:DN59MR_zAZEIYLxmusBuYByNcHx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horiz(TL)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 110 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 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)

7=22-8-2, 8=22-8-2, 10=22-8-2, 11=22-8-2, 12=22-8-2, 13=22-8-2,

14=22-8-2

Max Horiz 14=-210 (LC 10)

Max Uplift 7=-50 (LC 11), 8=-133 (LC 15),

10=-122 (LC 15), 12=-129 (LC 14), 13=-118 (LC 14), 14=-14 (LC 15)

Max Grav 7=200 (LC 24), 8=467 (LC 25), 10=492 (LC 6), 11=441 (LC 26),

12=518 (LC 5), 13=357 (LC 24),

14=60 (LC 25)

(lb) - Maximum Compression/Maximum

Tension

1-14=-43/19, 1-2=-47/50, 2-3=-115/96, TOP CHORD

3-4=-177/212, 4-5=-176/232, 5-6=-173/174,

6-7=-198/195

13-14=-157/178, 12-13=-157/178,

11-12=-157/178, 10-11=-157/178, 8-10=-157/178, 7-8=-157/178

4-11=-240/30, 3-12=-391/179,

2-13=-237/147, 5-10=-376/173, 6-8=-316/172

WEBS NOTES

FORCES

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) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-0-8, Exterior(2R) 7-0-8 to 13-0-8, Interior (1) 13-0-8 to 19-2-12, Exterior(2E) 19-2-12 to 22-2-12 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 14, 50 lb uplift at joint 7, 129 lb uplift at joint 12, 118 lb uplift at joint 13, 122 lb uplift at joint 10 and 133 lb uplift at joint 8.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V02	Valley	1	1	Job Reference (optional)	173034365

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:12:59 ID:DN59MR_zAZEIYLxmusBuYByNcHx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

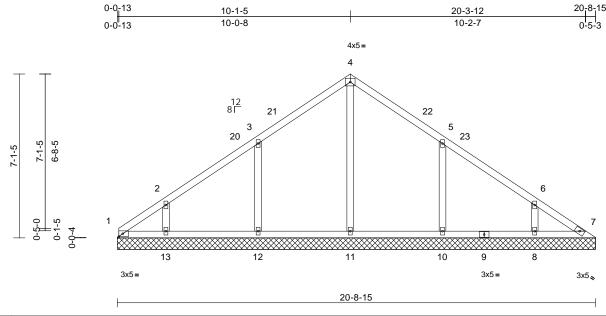


Plate Offsets (X, Y): [1:0-2-0,0-1-8]

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER

Scale = 1:50

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=20-8-15, 7=20-8-15, 8=20-8-15, 10=20-8-15, 11=20-8-15,

12=20-8-15, 13=20-8-15

Max Horiz 1=-159 (LC 10)

Max Uplift 1=-79 (LC 12), 8=-79 (LC 15), 10=-139 (LC 15), 12=-131 (LC 14),

13=-100 (LC 14)

Max Grav 1=87 (LC 11), 8=349 (LC 25),

10=477 (LC 6), 11=517 (LC 27),

12=488 (LC 5), 13=337 (LC 24)

(lb) - Maximum Compression/Maximum Tension

1-2=-148/223, 2-3=-114/214, 3-4=-88/226, TOP CHORD

4-5=-88/206, 5-6=-15/161, 6-7=-39/128

BOT CHORD 1-13=-76/45, 12-13=-76/45, 11-12=-76/45, 10-11=-76/45, 8-10=-76/45, 7-8=-76/45

WEBS 4-11=-324/0, 3-12=-391/181, 2-13=-241/138,

5-10=-386/184, 6-8=-249/129

NOTES

FORCES

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) -0-0-13 to 2-11-3, Interior (1) 2-11-3 to 7-0-8, Exterior(2R) 7-0-8 to 13-0-8, Interior (1) 13-0-8 to 17-2-12, Exterior(2E) 17-2-12 to 20-2-12 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated. 6)
- 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, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 1, 131 lb uplift at joint 12, 100 lb uplift at joint 13, 139 lb uplift at joint 10, 79 lb uplift at joint 8 and 79 lb uplift at ioint 1.

LOAD CASE(S) Standard



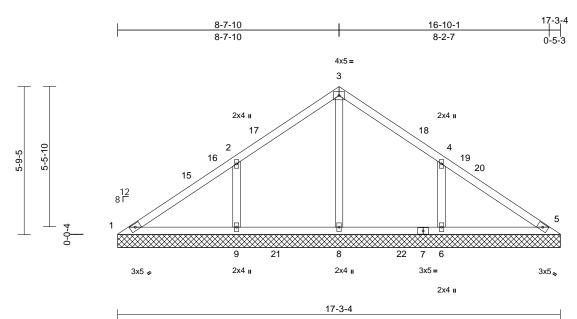
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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V03	Valley	1	1	Job Reference (optional)	

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Scale = 1:45

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 70 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 10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=17-3-4, 5=17-3-4, 6=17-3-4, 8=17-3-4, 9=17-3-4

Max Horiz 1=131 (LC 11) Max Uplift

1=-37 (LC 36), 6=-145 (LC 15), 9=-149 (LC 14)

1=89 (LC 35), 5=1 (LC 25), 6=521 Max Grav

(LC 21), 8=625 (LC 24), 9=524 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-95/369, 2-3=0/312, 3-4=0/311,

4-5=-112/341

1-9=-247/80, 8-9=-247/72, 6-8=-247/72,

5-6=-247/72 WEBS

3-8=-474/0, 2-9=-411/183, 4-6=-410/182

NOTES

BOT CHORD

- 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) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 5-8-0, Exterior(2R) 5-8-0 to 11-8-0, Interior (1) 11-8-0 to 13-10-4, Exterior(2E) 13-10-4 to 16-10-4 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

- 3) 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.
- 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. * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 149 lb uplift at joint 9 and 145 lb uplift at joint 6.

LOAD CASE(S) Standard



Page: 1

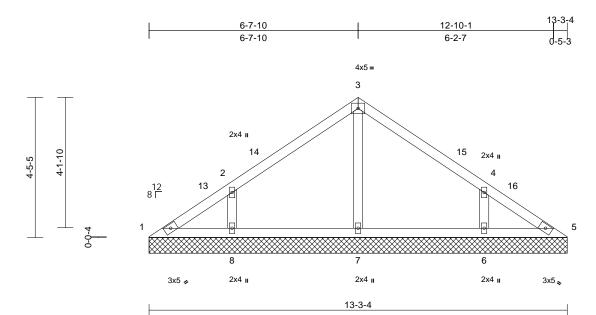
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Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V04	Valley	1	1	Job Reference (optional)	67

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:13:00 ID:hZfXZn?bxtMc9VWySZi75PyNcHw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:36.6

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 51 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 6-0-0 oc

bracing.

REACTIONS (size) 1=13-3-4, 5=13-3-4, 6=13-3-4,

7=13-3-4, 8=13-3-4 Max Horiz 1=-100 (LC 10)

Max Uplift 1=-13 (LC 10), 6=-112 (LC 15),

8=-114 (LC 14)

1=90 (LC 25), 5=77 (LC 1), 6=449 Max Grav

(LC 21), 7=295 (LC 21), 8=449 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-121/92, 2-3=-159/97, 3-4=-159/93,

4-5=-93/60

BOT CHORD 1-8=-33/96, 7-8=-33/59, 6-7=-33/59, 5-6=-33/75

WEBS

3-7=-211/11, 2-8=-388/158, 4-6=-388/157

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) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 3-8-0, Exterior(2R) 3-8-0 to 9-8-0, Interior (1) 9-8-0 to 10-3-10, Exterior(2E) 10-3-10 to 13-3-10 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

- 3) 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.
- 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.
- * 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 13 lb uplift at joint 1, 114 lb uplift at joint 8 and 112 lb uplift at joint 6.

LOAD CASE(S) Standard



April 29,2025

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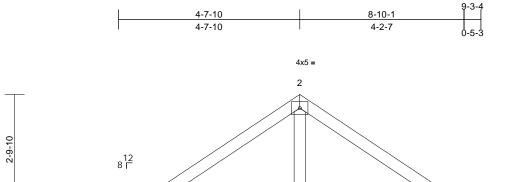
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V05	Valley	1	1	Job Reference (optional)	173034368

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:13:00 ID:hZfXZn?bxtMc9VWySZi75PyNcHw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4

2x4 ı 3x5 🍃 9-3-4

Scale = 1:29.5

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

9-3-4 oc purlins.

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

bracing.

REACTIONS (size) 1=9-3-4, 3=9-3-4, 4=9-3-4

Max Horiz 1=69 (LC 13)

Max Uplift 1=-37 (LC 21), 3=-37 (LC 20),

4=-73 (LC 14)

Max Grav 1=120 (LC 20), 3=120 (LC 21),

4=713 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-108/356, 2-3=-108/356 **BOT CHORD**

1-4=-254/140, 3-4=-254/140

WFBS 2-4=-581/210

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) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 6-3-10, Exterior(2É) 6-3-10 to 9-3-10 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 desian.
- 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.

 * 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 37 lb uplift at joint 1, 37 lb uplift at joint 3 and 73 lb uplift at joint 4.

LOAD CASE(S) Standard



3x5 👟

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April 29,2025

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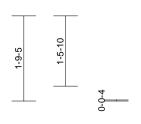


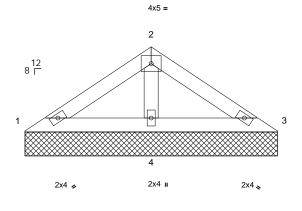
ſ	Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
	25040126	V06	Valley	1	1	Job Reference (optional)	173034369

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:13:00 ID:AIDvm70DiAUSnf580HDMdcyNcHv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:24.1

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-3-4 oc purlins.

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

bracing.

REACTIONS (size) 1=5-3-4, 3=5-3-4, 4=5-3-4

Max Horiz 1=-38 (LC 10)

1=-5 (LC 14), 3=-11 (LC 15), 4=-29 Max Uplift

(IC 14) Max Grav 1=91 (LC 20), 3=91 (LC 21), 4=322

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-89/124, 2-3=-89/124

1-4=-107/85, 3-4=-107/85 **BOT CHORD**

WEBS 2-4=-235/103

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.
- 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.
- * 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 5 lb uplift at joint 1, 11 lb uplift at joint 3 and 29 lb uplift at joint 4.

LOAD CASE(S) Standard



April 29,2025

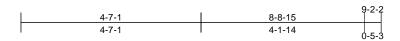
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

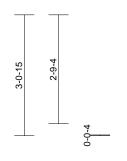
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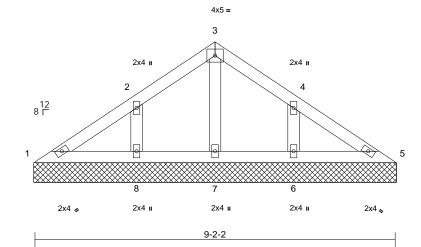


Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V07	Valley	1	1	Job Reference (optional)	173034370

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:13:00 ID:QKjrk9BfaMmm7C4I4v77KXzuo47-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:29.3

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 36 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

9-2-2 oc purlins.

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

bracing.

REACTIONS (size) 1=9-2-14, 5=9-2-14, 6=9-2-14,

7=9-2-14, 8=9-2-14 Max Horiz 1=-66 (LC 10)

1=-5 (LC 15), 5=-1 (LC 15), 6=-70 Max Uplift

(LC 15), 8=-72 (LC 14)

1=106 (LC 20), 5=106 (LC 21), Max Grav

6=325 (LC 21), 7=166 (LC 20),

8=325 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

3-4=-26/81, 4-5=-119/106, 1-2=-119/106,

2-3=-26/81

1-8=-58/91, 7-8=-58/58, 6-7=-58/58,

5-6=-58/91 WEBS

3-7=-147/2, 4-6=-237/110, 2-8=-237/110

NOTES

BOT CHORD

- 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) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 6-2-14, Exterior(2E) 6-2-14 to 9-2-14 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

- 3) 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.
- 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.
- * 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 1 lb uplift at joint 5, 5 lb uplift at joint 1, 70 lb uplift at joint 6 and 72 lb uplift at ioint 8.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 1.

LOAD CASE(S) Standard



Page: 1

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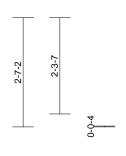


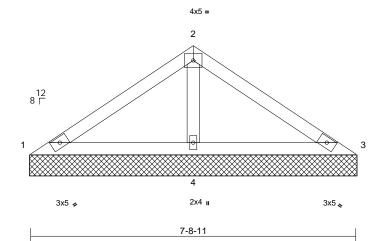
ſ	Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
	25040126	V08	Valley	1	1	Job Reference (optional)	173034371

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Fri Apr 25 12:13:00 ID:QKjrk9BfaMmm7C4I4v77KXzuo47-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:27.4

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 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

7-8-11 oc purlins.

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

bracing.

REACTIONS (size) 1=7-9-7, 3=7-9-7, 4=7-9-7

Max Horiz 1=-57 (LC 12)

Max Uplift 1=-23 (LC 21), 3=-23 (LC 20),

4=-61 (LC 14)

Max Grav 1=103 (LC 20), 3=103 (LC 21),

4=576 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-3=-93/277, 1-2=-93/277

BOT CHORD 1-4=-232/145, 3-4=-232/145

WEBS 2-4=-461/186

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) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-9-7, Exterior(2E) 4-9-7 to 7-9-7 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.
- 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 23 lb uplift at joint 3, 23 lb uplift at joint 1 and 61 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 1.

LOAD CASE(S) Standard



April 29,2025

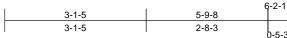
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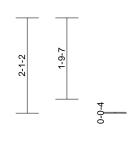
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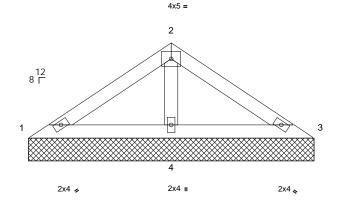


Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
25040126	V09	Valley	1	1	Job Reference (optional)	173034372

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Fri Apr 25 12:13:00 ID:y89TWpA1p2evV2W6WCbunJzuo48-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







6-2-11

Scale = 1:25.3

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-2-11 oc purlins.

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

bracing.

REACTIONS (size) 1=6-3-7, 3=6-3-7, 4=6-3-7

Max Horiz 1=-45 (LC 10)

Max Uplift 1=-3 (LC 14), 3=-10 (LC 15), 4=-40

(IC 14)

Max Grav 1=98 (LC 20), 3=98 (LC 21), 4=417

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-3=-96/180, 1-2=-96/180

TOP CHORD 1-4=-155/112, 3-4=-155/112 **BOT CHORD**

WEBS 2-4=-322/141

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.
- 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.
- * 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 10 lb uplift at joint 3, 3 lb uplift at joint 1 and 40 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 1.

LOAD CASE(S) Standard



April 29,2025

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/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)

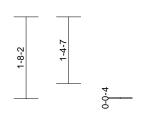


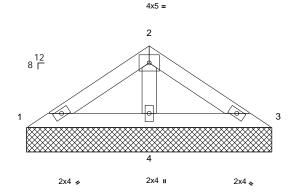
ſ	Job	Truss	Truss Type	Qty	Ply	14 Eagle Creek - Norman B - Roof	
	25040126	V10	Valley	1	1	Job Reference (optional)	173034373

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2-5-14 4-6-8







4-11-11

Scale = 1:23.7

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 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

4-11-11 oc purlins.

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

bracing.

REACTIONS (size) 1=5-0-7, 3=5-0-7, 4=5-0-7

Max Horiz 1=-35 (LC 10)

Max Uplift 1=-5 (LC 14), 3=-11 (LC 15), 4=-26

(IC 14)

Max Grav 1=88 (LC 20), 3=88 (LC 21), 4=303

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-3=-86/116, 1-2=-86/116

TOP CHORD 1-4=-100/80, 3-4=-100/80 **BOT CHORD**

WEBS 2-4=-218/95

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.
- 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.
- * 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 11 lb uplift at joint 3, 5 lb uplift at joint 1 and 26 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 1.

LOAD CASE(S) Standard



Page: 1

April 29,2025

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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- $\frac{1}{16}$ 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.

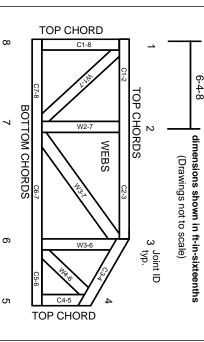
Industry Standards:

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 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.
- 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.

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- 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.