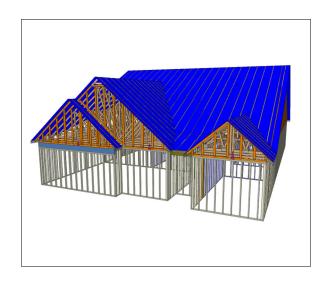


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

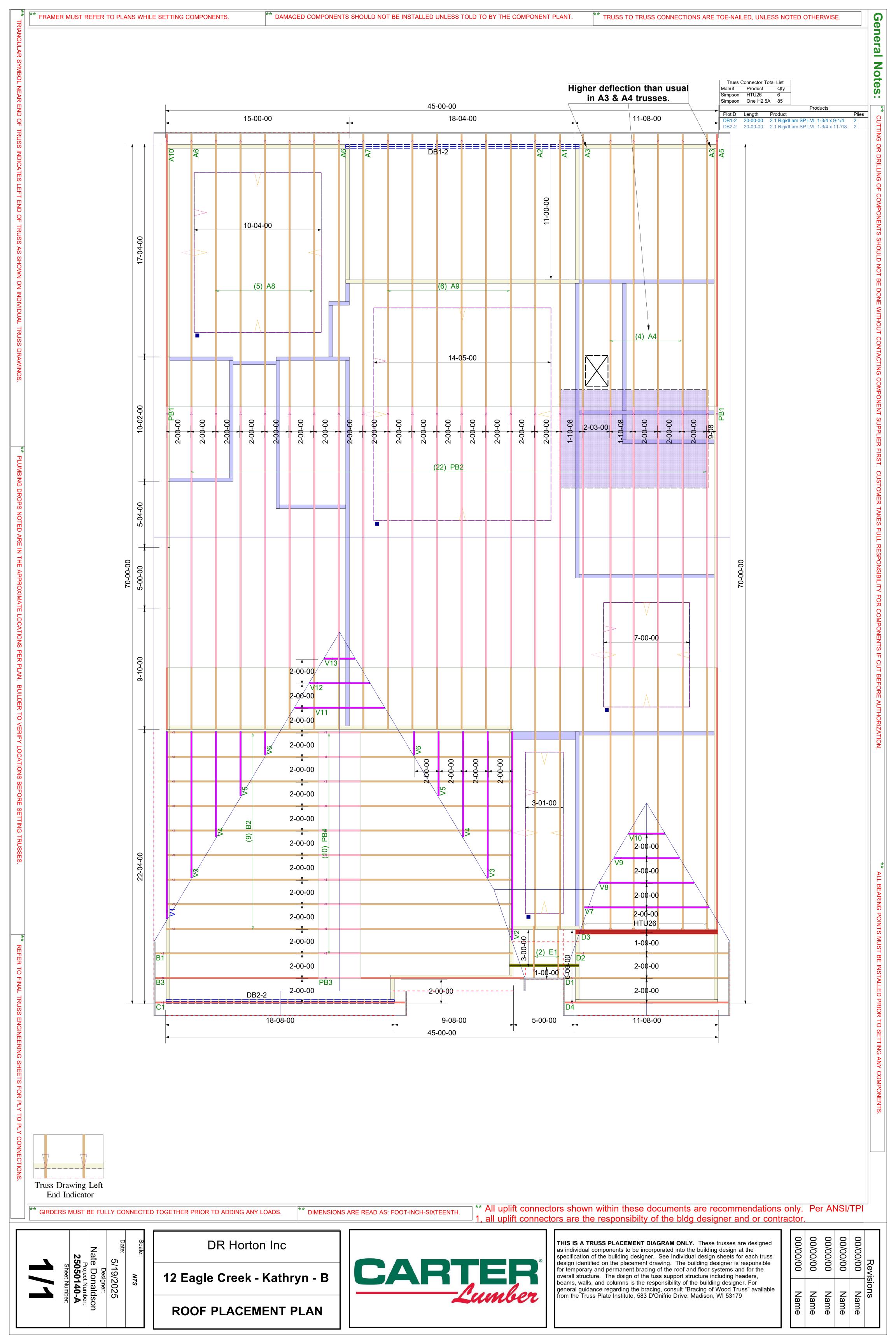
Builder: DR Horton Inc 12 Eagle Creek -Model: Kathryn - B



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:
Approved by:	





Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25050140-A

12 Eagle Creek-Kathryn B

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

Pages or sheets covered by this seal: I73603684 thru I73603719

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

North Carolina COA: C-0844



May 21,2025

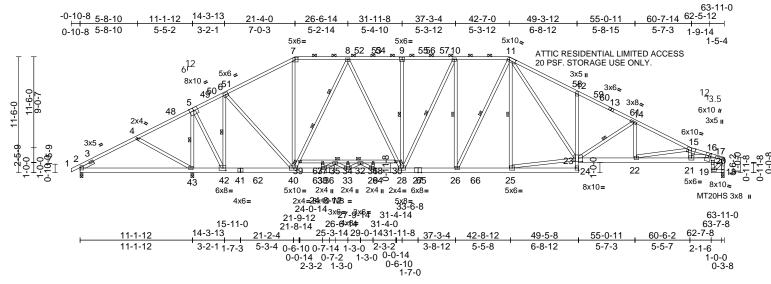
Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A1	Piggyback Base	1	1	Job Reference (optional)	173603684

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:20 ID:gzvdENKJOgX2Ss?L5D9RdAzEz27-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:114.3

[7:0-3-8,0-2-4], [9:0-3-0,0-3-0], [11:0-7-12,0-2-12], [15:0-8-4,0-3-0], [16:0-5-9,0-3-12], [16:0-1-12,Edge], [17:0-2-10,0-2-8], [23:0-4-8,0-4-8], [24:Edge,0-3-8], Plate Offsets (X, Y): [36:0-3-10,Edge], [42:0-3-8,0-3-0]

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	0.73	Vert(LL)	-0.29	12-23	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.54	29-33	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.25	18	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 536 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 24-12,20-19:2x4

SP No.3, 19-18,39-30:2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

40-7,8-40,8-28,9-28,25-11,25-23,23-11,10-26,

10-28,11-26,5-42:2x4 SP No.2

OTHERS 2x4 SP No 3

Left 2x4 SP No.2 -- 1-6-0 SLIDER

BRACING

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

2-0-0 oc purlins (4-4-5 max.): 7-11.

BOT CHORD Rigid ceiling directly applied or 4-8-15 oc bracing.

1 Row at midpt

WFRS 6-42, 9-28, 11-25, 14-23 10-26, 10-28, 11-26, 5-43

WFBS 2 Rows at 1/3 pts 8-39 **JOINTS** 1 Brace at Jt(s): 39,

30, 35, 32

REACTIONS (size) 2=0-3-8, 18=0-3-8, 43=0-3-8

Max Horiz 2=182 (LC 18)

Max Uplift 2=-200 (LC 63), 18=-65 (LC 15) Max Grav 2=204 (LC 46), 18=2420 (LC 6),

43=3926 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/23, 2-4=-284/756, 4-6=-651/1079,

6-7=-2363/220, 7-8=-2080/253, 8-10=-3424/354, 10-11=-3450/456, 11-12=-4865/696, 12-14=-4816/545, 14-15=-5805/591, 15-16=-7123/730 16-17=-5254/544, 17-18=-2674/304

BOT CHORD 2-43=-628/176, 42-43=-892/264,

40-42=0/562, 38-40=0/2869, 33-38=0/3583, 29-33=0/3555, 28-29=0/2770,

26-28=-25/3372, 25-26=-57/3148, 24-25=-16/425, 23-24=0/123,

12-23=-694/252, 22-23=-382/5167

21-22=-612/6793, 20-21=-489/5286,

17-20=-474/5132, 19-20=-30/536,

18-19=-29/441, 37-39=-84/0, 35-37=-84/0,

34-35=-1477/0, 32-34=-1477/0,

31-32=-16/20, 30-31=-16/20

4-43=-481/233, 6-42=-2773/204, 6-40=0/2299, 7-40=0/706, 39-40=-1916/164,

8-39=-1804/201, 8-30=-32/1326,

28-30=-72/1250. 9-28=-346/127.

11-25=-186/97. 23-25=-40/2753.

11-23=-341/2043, 14-23=-1135/168,

14-22=0/712 15-22=-1656/233

15-21=-516/118, 16-21=-144/1637

17-19=-584/41, 33-34=-2/45, 37-38=0/65, 29-31=0/90, 16-20=-955/110,

10-26=-453/165, 10-28=-347/239

11-26=-170/605, 5-42=-236/2943,

5-43=-3527/353, 35-38=-1070/0,

33-35=0/646, 32-33=0/669, 29-32=-1130/0

NOTES

WFBS

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 5-6-12, Interior (1) 5-6-12 to 14-11-5, Exterior(2R) 14-11-5 to 27-8-11, Interior (1) 27-8-11 to 36-2-5, Exterior(2R) 36-2-5 to 48-11-11, Interior (1) 48-11-11 to 60-7-14, Exterior(2E) 60-7-14 to 63-6-10 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
- 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.



May 21,2025

ontinued 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	12 Eagle Creek-Kathryn B	
25050140-A	A1	Piggyback Base	1	1	Job Reference (optional)	173603684

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:20 ID:gzvdENKJOgX2Ss?L5D9RdAzEz27-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

- 200 0lb AC unit load placed on the bottom chord 26-6-14 from left end, supported at two points, 5-0-0 apart.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 8) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 4x5 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 18. 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.

LOAD CASE(S) Standard



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May 21,2025

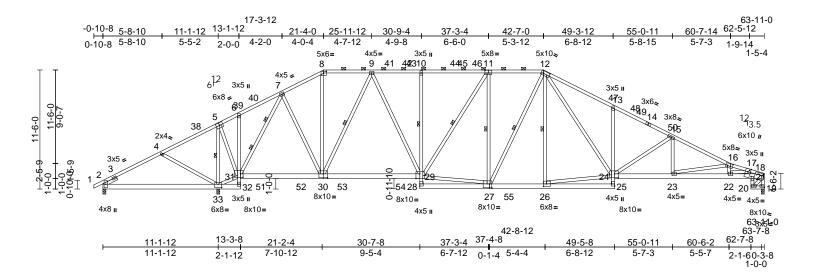


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A2	Piggyback Base	1	1	Job Reference (optional)	73603685

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:23 ID:PTHEBNAUAgVuptm?qWt6ZjzEwiZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:111.3 [2:0-4-9,0-1-5], [8:0-3-0,0-2-0], [11:0-4-0,0-3-0], [12:0-7-4,0-2-8], [16:0-6-0,0-2-12], [17:0-5-9,0-3-12], [17:0-1-12,Edge], [18:0-2-10,0-2-8], [19:Edge,0-1-8], [24:0-4-4,0-4-8], [25:Edge,0-3-8], [26:0-3-8,0-2-12], [27:0-2-8,0-4-8], [29:0-4-8,Edge], [30:0-5-0,0-4-8], [31:0-3-0,0-4-0], [33:0-4-0,0-4-0]

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	0.66	Vert(LL)	-0.26	23-24	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.48	23-24	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.25	19	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 528 lb	FT = 20%

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

2x6 SP 2400F 2.0E *Except* 32-6,25-13,21-20:2x4 SP No.3, 10-28,20-19:2x4 SP No.2

2x4 SP No.3 *Except*

WEBS 30-9,29-9,11-29,27-11,27-12,26-12,24-12:2x4

SP No.2

Left 2x4 SP No.3 -- 1-6-0 SLIDER

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 3-2-1 oc purlins, except end verticals, and

2-0-0 oc purlins (4-9-6 max.): 8-12. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 2-33,32-33.

1 Row at midpt 10-29

WEBS 1 Row at midpt 9-30, 11-29, 11-27, 12-27, 12-26, 5-33

7-31 WFBS 2 Rows at 1/3 pts

REACTIONS 2=0-3-8, 19=0-3-8, 33=0-3-8 (size)

Max Horiz 2=182 (LC 18)

Max Uplift 2=-326 (LC 63), 19=-154 (LC 15),

33=-194 (LC 14)

2=89 (LC 10), 19=2179 (LC 6),

33=3643 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/23 2-4=-360/1089 4-6=-251/1448

6-7=-17/546, 7-8=-1859/419, 8-9=-1648/405 9-10=-2862/597, 10-12=-2880/637, 12-13=-4274/881, 13-15=-4223/731

15-16=-5178/789, 16-17=-6424/949 17-18=-4752/702, 18-19=-2422/383 **BOT CHORD** 2-33=-890/230, 32-33=-125/0, 31-32=-372/0,

6-31=-258/78, 29-31=-103/2264, 28-29=0/134, 10-29=-394/141 26-28=-208/2678, 25-26=-34/411, 24-25=0/128, 13-24=-694/252,

23-24=-559/4606, 22-23=-820/6131 21-22=-648/4780, 18-21=-628/4642, 20-21=-45/488, 19-20=-42/401

31-33=-1250/449, 7-31=-2893/466, 7-30=-108/1555, 8-30=-59/568, 9-30=-1650/306, 9-29=-148/1230,

27-29=-165/2609, 11-29=-332/118, 11-27=-521/218, 12-27=-296/381, 12-26=-154/98, 24-26=-174/2291 12-24=-368/1935. 15-24=-1097/181. 15-23=0/678, 16-23=-1553/265,

16-22=-451/139, 17-21=-856/141, 17-22=-198/1466 4-33=-497/233 5-33=-2570/440, 5-31=-279/2089,

18-20=-530/58

NOTES

WEBS

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 5-6-12, Interior (1) 5-6-12 to 14-11-5, Exterior(2R) 14-11-5 to 27-8-11, Interior (1) 27-8-11 to 36-2-5, Exterior(2R) 36-2-5 to 48-11-11, Interior (1) 48-11-11 to 60-7-14, Exterior(2E) 60-7-14 to 63-6-10 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

- 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.



ontinued 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	12 Eagle Creek-Kathryn B	
25050140-A	A2	Piggyback Base	1	1	Job Reference (optional)	73603685

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:23 ID:PTHEBNAUAgVuptm?qWt6ZjzEwiZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 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) One H2.5A Simpson Strong-Tie connectors
- recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 19, and 33. 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.

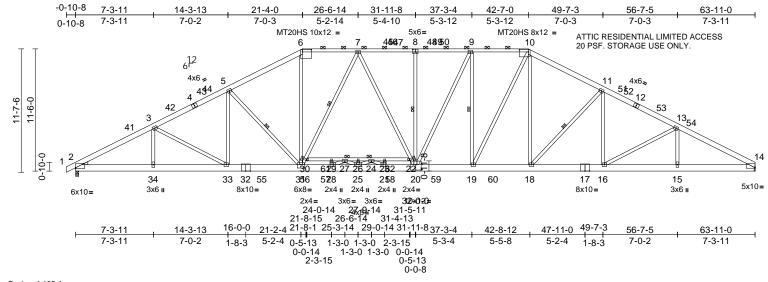
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A3	Piggyback Base	2	1	Job Reference (optional)	173603686

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:24 ID:E7rVnEkJT57qN7il?w1GXqzEymp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:108.4

Plate Offsets (X, Y): [2:Edge,0-1-1], [6:0-10-0,0-2-8], [8:0-3-0,0-3-0], [10:0-10-0,0-2-8], [14:Edge,0-0-9], [20:0-6-0,0-6-0], [31:0-4-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.35	21-25	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.67	21-25	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.17	14	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							1	
BCDL	10.0										Weight: 582 lb	FT = 20%

LUMBER

2x6 SP 2400F 2.0E *Except* 6-8,8-10:2x4 SP TOP CHORD

2400F 2.0E

BOT CHORD 2x8 SP 2400F 2.0E *Except* 30-22:2x4 SP

No.2

WFBS 2x4 SP No.3 *Except*

31-6,7-31,20-7,18-10,20-8,20-9,9-19,19-10:2

x4 SP No.2 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-15 oc purlins, except

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

bracing, Except:

6-0-0 oc bracing: 29-30,27-29 5-4-10 oc bracing: 26-27

5-4-11 oc bracing: 24-26.

WEBS 1 Row at midpt 7-30, 11-18, 8-20, 5-31, 9-19

JOINTS 1 Brace at Jt(s): 24,

27, 30, 22

REACTIONS (size) 2=0-3-8, 14= Mechanical

Max Horiz 2=185 (LC 18)

Max Uplift 2=-94 (LC 14), 14=-131 (LC 15)

Max Grav 2=3265 (LC 3), 14=3093 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/23, 2-3=-6702/177, 3-5=-6300/195,

5-6=-5718/171, 6-7=-4991/192, 7-9=-5563/213, 9-10=-5256/294

10-11=-5414/310, 11-13=-6046/308,

13-14=-6441/300

BOT CHORD 2-34=-185/5879, 33-34=-185/5879,

31-33=-38/5534, 28-31=0/5234, 25-28=0/5740, 21-25=0/5755, 19-21=0/5228,

18-19=0/4622, 16-18=-86/5308,

15-16=-185/5648, 14-15=-185/5648 29-30=-9/13, 27-29=-9/13, 26-27=-1170/0.

24-26=-1170/0, 23-24=-11/21, 22-23=-11/21 3-34=-29/127, 6-31=0/2234

30-31=-1026/162, 7-30=-984/186, 7-22=-87/564, 20-22=-113/519,

10-18=-92/1093, 11-18=-1146/244 11-16=0/488, 13-16=-390/175, 28-29=-85/10, 25-26=-77/28, 24-25=0/584, 21-24=-812/0, 21-23=-58/9, 8-20=-352/128, 9-20=0/804,

27-28=-793/0, 25-27=0/596, 5-31=-1075/280, 5-33=-40/416, 3-33=-395/169,

13-15=-37/142, 9-19=-1105/38,

10-19=-43/1346

NOTES

WFRS

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 5-6-3, Interior (1) 5-6-3 to 12-3-8, Exterior(2R) 12-3-8 to 30-4-8, Interior (1) 30-4-8 to 33-6-8, Exterior(2R) 33-6-8 to 51-7-8, Interior (1) 51-7-8 to 57-6-5, Exterior(2E) 57-6-5 to 63-11-0 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

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 26-6-14 from left end, supported at two points, 5-0-0 apart
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 4x5 MT20 unless otherwise indicated.



ontinued 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	12 Eagle Creek-Kathryn B	
25050140-A	A3	Piggyback Base	2	1	Job Reference (optional)	173603686

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:24 ID: E7rVnEkJT57qN7il?w1GXqzEymp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 2

- 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, with BCDL = 10.0psf.
- 13) Refer to girder(s) for truss to truss connections.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint
- 15) 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 21,2025

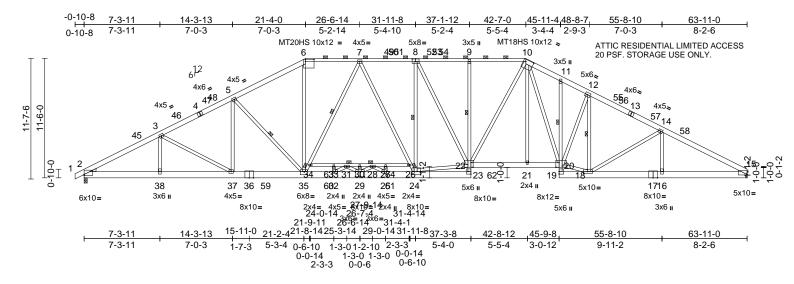


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A4	Piggyback Base	4	1	Job Reference (optional)	173603687

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:24 ID:keoq3EyPU0CWuA6V1RWfuizEyO?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:111.1

[2:Edge,0-1-1], [6:0-10-0,0-2-8], [8:0-4-0,0-3-0], [10:0-9-4,0-2-8], [15:Edge,0-0-9], [18:0-4-12,0-2-4], [20:0-3-12,0-5-4], [22:0-2-8,0-5-4], [23:Edge,0-3-8], Plate Offsets (X, Y): [24:0-4-0,0-3-12], [29:0-5-0,0-6-0], [35:0-4-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.36	25-29	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.70	25-29	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.23	15	n/a	n/a	MT18HS	244/190
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 610 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 6-8,8-10:2x4 SP

2400F 2.0E

BOT CHORD 2x8 SP 2400F 2.0E *Except* 23-9,34-26:2x4

SP No.2, 22-20:2x6 SP 2400F 2.0E, 18-12:2x4 SP No.3, 19-11:2x4 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except*

35-6 8-24 8-22 22-10 7-24 7-35:2x4 SP No 2

24-22,18-20:2x4 SP No.1

Left: 2x4 SP No.3 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-3 oc purlins, except

2-0-0 oc purlins (3-4-0 max.): 6-10.

Rigid ceiling directly applied or 5-6-10 oc BOT CHORD bracing. Except:

1 Row at midpt 9-22, 11-20

5-7-0 oc bracing: 12-18

WFBS 1 Row at midpt 5-35, 8-24, 7-34

JOINTS 1 Brace at Jt(s): 34,

26, 31, 28

REACTIONS (size) 2=0-3-8, 15= Mechanical

Max Horiz 2=185 (LC 14)

Max Uplift 2=-95 (LC 14), 15=-131 (LC 15)

Max Grav 2=3237 (LC 3), 15=3061 (LC 3) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/23, 2-3=-6645/179, 3-5=-6242/197,

5-6=-5654/174, 6-7=-4935/195, 7-9=-5619/285, 9-10=-5625/285 10-11=-6184/393, 11-12=-6182/341, 12-14=-5933/308, 14-15=-6371/304

BOT CHORD 2-38=-187/5829, 37-38=-187/5829,

35-37=-39/5482, 32-35=0/5181

25-32=0/5696, 24-25=0/5216, 23-24=-28/613, 22-23=-16/41, 9-22=-480/143, 21-22=0/4991,

20-21=0/4998, 18-19=-25/719,

16-18=-179/5580, 15-16=-179/5580 12-18=-1023/22, 33-34=-12/5, 31-33=-12/5,

30-31=-1110/0, 28-30=-1109/0, 27-28=-47/1,

26-27=-47/1, 19-20=-5/53, 11-20=-216/68

WEBS 3-38=-30/146, 3-37=-397/169, 5-37=-38/425, 5-35=-1080/279, 6-35=0/2205,

8-24=-654/303, 22-24=0/4841,

8-22=-245/494, 10-22=-36/1248,

10-21=0/506. 10-20=-239/1288.

12-20=-13/647, 14-18=-501/200,

7-26=-83/542, 24-26=-104/469, 34-35=-1014/159 7-34=-965/184

32-33=-66/14. 29-30=-68/25. 25-27=-56/10.

31-32=-781/0, 29-31=0/586, 28-29=0/562,

25-28=-780/0, 14-16=-24/163,

18-20=-44/4704

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 5-6-3, Interior (1) 5-6-3 to 12-3-8, Exterior(2R) 12-3-8 to 30-4-8, Interior (1) 30-4-8 to 33-6-8, Exterior(2R) 33-6-8 to 51-7-8, Interior (1) 51-7-8 to 57-6-5, Exterior(2E) 57-6-5 to 63-11-0 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, 26-6-14 from left end, supported at two points, 5-0-0 apart.



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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	12 Eagle Creek-Kathryn B	
25050140-A	A4	Piggyback Base	4	1	I7 Job Reference (optional)	73603687

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:24 ID:keoq3EyPU0CWuA6V1RWfuizEyO?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 10) 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.
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint
- 14) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



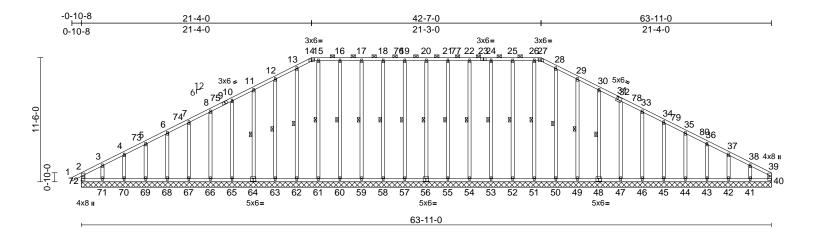


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A5	Piggyback Base Supported Gable	1	1	Job Reference (optional)	173603688

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:25 ID: Bi1XYEK8GMweADNDFv4rnFzEwfn-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? fill a constant of the constant

Page: 1



Scale = 1:106.7

Loading TCLL (roof) Snow (Pf)	(psf) 20.0 20.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.1 0.1	۱9 ۱	DEFL Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190	
TCDL	10.0	Rep Stress Incr	YES	WB			Horz(CT)	0.01	40	n/a	n/a	I		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix		- [- (- /							
BCDL	10.0											Weight: 551 lb	FT = 20'	%
LUMBER				Max Uplift	41=-117 (LC	15), 4	42=-27 (LC	15),	TOP CH	HORD	2-72=	-148/42, 1-2=0/2	27, 2-3=-22	3/85,
TOP CHORD	2x4 SP No.2				43=-48 (LC 1							160/80, 4-5=-127		
BOT CHORD	2x4 SP No.2				45=-44 (LC 1							74/135, 7-8=-63/		
WEBS	2x4 SP No.3				47=-43 (LC 1							=-88/255, 11-12	,	
OTHERS	2x4 SP No.3 *Exce				49=-55 (LC 1							=-126/351, 13-1		
		59-17,60-16,61-15,62			52=-34 (LC 1							=-126/354, 15-1		,
	, , ,	52-25,51-26,50-28:2x	4 SP		54=-25 (LC 1 56=-25 (LC 1							=-126/354, 17-1 =-126/354, 19-2		
	No.2				58=-25 (LC 1 58=-25 (LC 1							=-126/354, 19-2 =-126/354, 21-2		
BRACING					60=-36 (LC 1							=-126/354, 21-2 =-126/354, 24-2		,
TOP CHORD		eathing directly applie			63=-52 (LC 1							=-126/354, 24-2 =-126/354, 26-2		
		xcept end verticals, ar	nd		65=-45 (LC 1							=-135/367, 28-2		,
DOT 0110DD	2-0-0 oc purlins (6-				67=-44 (LC 1							=-106/300, 30-3		
BOT CHORD		y applied or 10-0-0 oc			69=-49 (LC 1							=-71/211, 33-34		
WEDO	bracing.	00 50 40 57 40 50			71=-138 (LC							=-45/120, 35-36	,	6-37=-76/38.
WEBS	1 Row at midpt	20-56, 19-57, 18-58, 17-59, 16-60, 15-61.		Max Grav	40=116 (LC 5							=-106/35, 38-39		
		13-62, 12-63, 11-64			42=159 (LC 4	45), 4	13=160 (LC	59),						
		21-55, 22-54, 24-53			44=162 (LC 4	45), 4	15=227 (LC	45),						
		25-52, 26-51, 28-50			46=243 (LC 4	45), 4	17=241 (LC	45),						
		29-49, 30-48			48=240 (LC 4	45), 4	19=241 (LC	45),						
REACTIONS	(oizo) 40 62 1	1-0. 41=63-11-0.			50=237 (LC 4									
REACTIONS		1-0, 41=63-11-0, 1-0, 43=63-11-0,			52=222 (LC 4	40), 5	53=216 (LC	40),					1111	
		1-0, 45=63-11-0, 1-0, 45=63-11-0,			54=219 (LC 4							11111 CA	10-11	
		1-0, 45=63-11-0, 1-0, 47=63-11-0,			56=160 (LC 5							"ATH OF	MON	11.
		1-0, 49=63-11-0,			58=219 (LC 4						X	ORTH CA	:ik. 1/	1/1/2
		1-0, 51=63-11-0,			60=222 (LC 4						1		N'Y	RI
		1-0, 53=63-11-0,			62=235 (LC 4									
		1-0, 55=63-11-0,			64=240 (LC 4					3				· =
		1-0, 57=63-11-0,			66=243 (LC 4					111111111111111111111111111111111111111		SEA	\L	E .
		1-0, 59=63-11-0,			68=161 (LC 4					=				: E
		1-0, 61=63-11-0,			70=165 (LC 4		1=152 (LC	25),		=		0363	322	: =
		1-0, 63=63-11-0,			72=188 (LC 5	•				-		:		: :
			FORCES	(lh) Ma	vimum Compre	eeior	\/\avimum				-	•		•

(lb) - Maximum Compression/Maximum

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.

64=63-11-0, 65=63-11-0,

66=63-11-0, 67=63-11-0, 68=63-11-0, 69=63-11-0, 70=63-11-0, 71=63-11-0,

72=63-11-0 Max Horiz 72=166 (LC 14) **FORCES**

Plate Offsets (X, Y): [14:0-3-0,0-2-0], [27:0-3-0,0-2-0], [31:0-1-12,0-3-0], [48:0-3-0,0-3-0], [56:0-3-0,0-3-0], [64:0-3-0,0-3-0]

WARNING - Veniry design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 17/2/2023 BEFORE USE.

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Tension



May 21,2025

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qtv Ply 12 Eagle Creek-Kathryn B 173603688 25050140-A **A5** Piggyback Base Supported Gable Job Reference (optional)

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:25 ID:Bi1XYEK8GMweADNDFv4rnFzEwfn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

13) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

14) * 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.

15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 72, 25 lb uplift at joint 56, 26 lb uplift at joint 57, 25 lb uplift at joint 58, 25 lb uplift at joint 59, 36 lb uplift at joint 60, 9 lb uplift at joint 62, 52 lb uplift at joint 63, 42 lb uplift at joint 64, 45 lb uplift at joint 65, 43 lb uplift at joint 66, 44 lb uplift at joint 67, 42 lb uplift at joint 68, 49 lb uplift at joint 69, 22 lb uplift at joint 70, 138 lb uplift at joint 71, 25 lb uplift at joint 55, 25 lb uplift at joint 54, 25 lb uplift at joint 53, 34 lb uplift at joint 52, 1 lb uplift at joint 50, 55 lb uplift at joint 49, 42 lb uplift at joint 48, 43 lb uplift at joint 47, 44 lb uplift at joint 46, 44 lb uplift at joint 45, 43 lb uplift at joint 44, 48 lb uplift at joint 43, 27 lb uplift at joint 42 and 117 lb uplift at joint 41.

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

LOAD CASE(S) Standard

71-72=-38/160, 70-71=-38/160, BOT CHORD

69-70=-38/160, 68-69=-38/160, 67-68=-38/160, 66-67=-38/160, 65-66=-38/160, 63-65=-38/160, 62-63=-37/160, 61-62=-37/160,

60-61=-37/160, 59-60=-37/160, 58-59=-37/160, 57-58=-37/160, 55-57=-37/160, 54-55=-37/160,

53-54=-37/160, 52-53=-37/160, 51-52=-37/160. 50-51=-37/160. 49-50=-37/160, 47-49=-37/160, 46-47=-37/160, 45-46=-37/160,

44-45=-37/160, 43-44=-37/160, 42-43=-37/160, 41-42=-37/160,

40-41=-37/160

20-56=-121/57, 19-57=-148/57, 18-58=-179/57, 17-59=-176/56, 16-60=-182/75, 15-61=-155/2, 13-62=-196/33, 12-63=-201/93, 11-64=-200/75, 10-65=-199/78,

8-66=-203/77, 7-67=-181/78, 6-68=-127/75, 5-69=-126/91, 4-70=-126/118,

3-71=-128/144, 21-55=-148/57, 22-54=-179/57, 24-53=-176/56, 25-52=-182/75, 26-51=-147/0, 28-50=-196/25, 29-49=-202/92, 30-48=-200/75, 32-47=-200/77, 33-46=-203/77, 34-45=-187/77, 35-44=-127/76, 36-43=-127/113

37-42=-124/115, 38-41=-137/160

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 5-6-3, Exterior(2N) 5-6-3 to 14-11-5, Corner(3R) 14-11-5 to 27-11-8, Exterior(2N) 27-11-8 to 35-11-8, Corner(3R) 35-11-8 to 48-11-11, Exterior(2N) 48-11-11 to 57-4-9, Corner(3E) 57-4-9 to 63-9-4 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture. handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 10) Gable requires continuous bottom chord bearing.
- 11) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 12) Gable studs spaced at 2-0-0 oc.



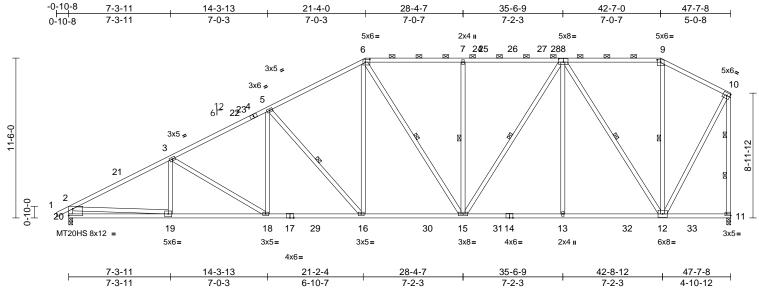
Page: 2

May 21,2025

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A6	Piggyback Base	2	1	Job Reference (optional)	73603689

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:25 ID:KZya6IWcATHkwHs2?UqqlwzEweF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.9

Plate Offsets (X, Y): [6:0-4-0,0-2-8], [8:0-4-0,0-3-0], [9:0-3-0,0-2-0], [11:Edge,0-1-8], [20:Edge,0-5-13]

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	0.99	Vert(LL)	-0.20	15-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.35	16-18	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 352 lb	FT = 20%

LUMBER

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

3-19,18-3,5-18,16-5,12-10:2x4 SP No.3, 15-6,15-8,12-8:2x4 SP 2400F 2.0E,

11-10:2x4 SP No.1

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals, and

2-0-0 oc purlins (4-8-9 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-16, 6-15, 7-15, 8-15, 8-12, 9-12

WEBS 2 Rows at 1/3 pts 10-11 REACTIONS (size) 11=0-3-8, 20=0-3-8

Max Horiz 20=363 (LC 11) Max Uplift 11=-150 (LC 15), 20=-257 (LC 14)

Max Grav 11=2252 (LC 46), 20=2190 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-4009/414, 3-5=-3596/420,

5-6=-2966/401, 6-7=-2594/393, 7-9=-2594/393, 9-10=-1082/283, 2-20=-2258/294, 10-11=-2423/255

BOT CHORD 19-20=-374/1032, 18-19=-470/3737,

16-18=-346/3344, 15-16=-305/2715, 13-15=-267/2212, 12-13=-268/2211,

11-12=-110/154

3-19=-54/150, 3-18=-458/145, 5-18=0/516,

5-16=-1037/229, 6-16=-86/1083, 6-15=-352/174 7-15=-598/188

8-15=-191/995, 8-13=0/427, 8-12=-2053/214,

9-12=-88/226, 10-12=-181/2140,

2-19=-137/2718

- 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 3-10-10. Interior (1) 3-10-10 to 14-3-13, Exterior(2R) 14-3-13 to 28-4-7, Interior (1) 28-4-7 to 35-7-0. Exterior(2R) 35-7-0 to 42-7-0, Exterior(2E) 42-7-0 to 47-5-12 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.
- 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) 20 and 11. 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



May 21,2025

NOTES

WEBS

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

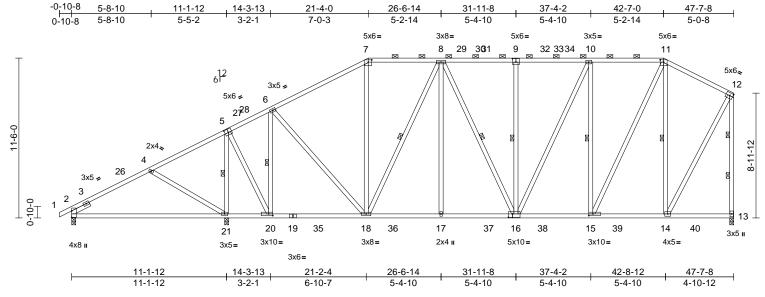
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	12 Eagle Creek-Kathryn B	
25050140-A	A7	Piggyback Base	1	1	Job Reference (optional)	173603690

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:25 ID:Dejw6dNGfgiHSQi1j3VoEUzEwVO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.9

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [7:0-3-0,0-2-0], [9:0-3-0,0-3-0], [11:0-3-0,0-2-0], [15:0-3-8,0-1-8],	[16:0-3-8,0-3-0], [20:0-3-8,0-1-8]
--	------------------------------------

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	0.96	Vert(LL)	-0.19	21-24	>689	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.39	21-24	>347	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 383 lb	FT = 20%

LUMBER

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

4-21,5-21,5-20,6-20,18-6,14-12:2x4 SP No.3 **SLIDER** Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.

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

WEBS 5-21, 6-20, 8-18, 8-16, 1 Row at midpt

9-16, 11-14, 10-15 **WEBS** 2 Rows at 1/3 pts 12-13

REACTIONS (size) 2=0-3-8, 13=0-3-8, 21=0-3-8

Max Horiz 2=357 (LC 13)

2=-11 (LC 14), 13=-134 (LC 15), Max Uplift

21=-319 (LC 14)

2=584 (LC 37), 13=1804 (LC 46),

21=2121 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-4=-961/47, 4-6=-870/135, 6-7=-1524/255, 7-8=-1334/269,

8-10=-1649/296, 10-11=-1365/287 11-12=-833/258, 12-13=-1902/204 2-21=-381/707, 20-21=-81/324,

BOT CHORD 18-20=-152/957, 17-18=-239/1796,

15-17=-239/1796, 14-15=-136/898,

13-14=-110/154

WEBS

4-21=-466/205, 5-21=-1803/315, 5-20=-174/1420. 6-20=-1149/193. 6-18=-86/827, 7-18=0/344, 8-18=-750/156, 8-17=0/291, 8-16=-110/85, 9-16=-353/129, 11-14=-1239/208, 12-14=-142/1664, 11-15=-163/1426, 10-15=-1049/208, 10-16=-98/657

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 3-10-10, Interior (1) 3-10-10 to 14-3-13, Exterior(2R) 14-3-13 to 28-0-13, Interior (1) 28-0-13 to 35-10-3, Exterior(2R) 35-10-3 to 42-7-0, Exterior(2E) 42-7-0 to 47-5-12 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.
- 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.
- 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.

- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2, 21, 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



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

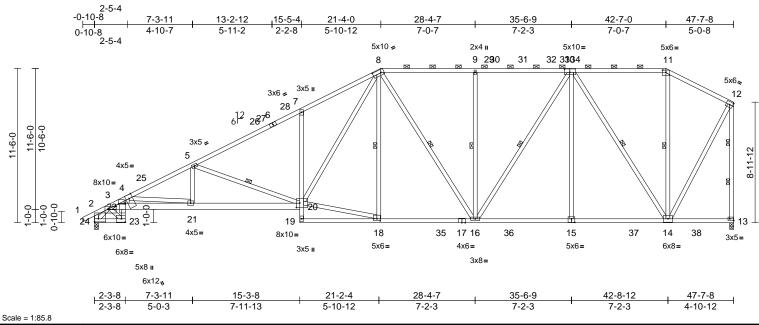
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	12 Eagle Creek-Kathryn B	
25050140-A	A8	Piggyback Base	5	1	Job Reference (optional)	173603691

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Tue May 20 17:50:41 ID:3ffugpgWeyhjl5JwXCqCAfzEwLz-ruX2c9BVuyx2DAk?4S5PPogKBkXJS8a8aYuu32zEi2_

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[2:Edge,0-2-12], [3:0-7-8,0-2-11], [3:0-9-10,0-4-12], [8:0-7-4,0-2-8], [10:0-4-12,0-3-0], [11:0-3-0,0-2-0], [13:Edge,0-1-8], [15:0-3-0,0-3-4], [18:0-3-0,0-1-12], Plate Offsets (X, Y): [20:0-3-0,0-4-0], [22:0-0-12,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	0.97	Vert(LL)	-0.26	20-21	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.47	20-21	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.26	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 377 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP 2400F 2.0E *Except* 24-23,23-22:2x4

SP No.2, 3-20:2x6 SP 2400F 2.0E, 7-19:2x4

SP No.3

WEBS 2x4 SP No.3 *Except*

20-8,18-8,9-16,10-15,14-11,24-2:2x4 SP

No.2, 16-8,16-10,14-10:2x4 SP 2400F 2.0E,

13-12:2x4 SP No 1

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-8 max.): 8-11.

BOT CHORD Rigid ceiling directly applied or 9-9-0 oc

bracing.

WEBS 1 Row at midpt 5-20, 8-18, 8-16, 9-16, 10-16, 10-14, 11-14

2 Rows at 1/3 pts WFBS 12-13

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

> Max Horiz 24=363 (LC 11) Max Uplift 13=-150 (LC 15), 24=-258 (LC 14)

Max Grav 13=2235 (LC 46), 24=2164 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD

2-3=-597/79, 3-4=-7260/924 4-25=-5401/594, 5-25=-5379/612,

5-26=-3958/446, 26-27=-3846/452,

6-27=-3835/454, 6-28=-3796/464,

7-28=-3778/468, 7-8=-3967/610, 8-9=-2564/391, 9-29=-2564/391,

29-30=-2564/391, 30-31=-2564/391,

31-32=-2564/391, 32-33=-2564/391,

10-33=-2564/391, 10-34=-964/276, 11-34=-964/276, 11-12=-1074/282,

2-24=-705/120, 12-13=-2406/253

BOT CHORD 23-24=-370/2234, 22-23=-437/2697,

3-22=-911/6288, 21-22=-949/6511,

20-21=-644/5054, 7-20=-638/255, 18-35=-305/2672, 17-35=-305/2672,

16-17=-305/2672, 16-36=-270/2210,

15-36=-270/2210, 15-37=-269/2214,

14-37=-269/2214

WEBS 4-21=-1470/308, 5-21=0/732,

5-20=-1503/287, 18-20=-270/2514, 8-20=-359/2032, 8-16=-325/195,

9-16=-589/185, 10-16=-189/961,

10-15=0/426, 10-14=-2037/213,

12-14=-181/2126, 3-23=-3083/517,

3-24=-2314/220, 4-22=-163/973

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 3-10-10, Interior (1) 3-10-10 to 14-7-3. Exterior(2R) 14-7-3 to 28-4-7. Interior (1) 28-4-7 to 35-10-3, Exterior(2R) 35-10-3 to 42-7-0, Exterior(2E) 42-7-0 to 47-5-12 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.
- 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.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 13 and 258 lb uplift at joint 24.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

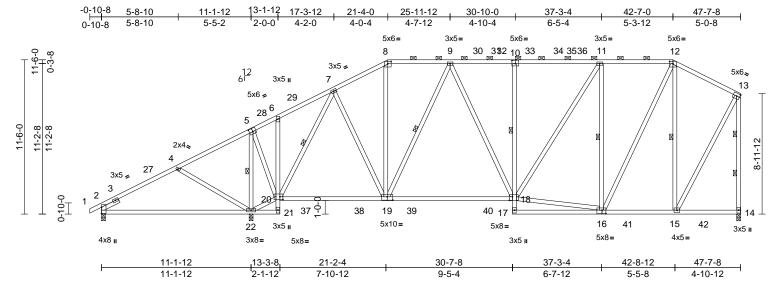
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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A9	Piggyback Base	6	1	Job Reference (optional)	3603692

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:26 ID:7cl9A2HFFq7EvTt3v4RXXCzEwag-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:85.8

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [8:0-3-0,0-2-0], [10:0-3-0,0-3-0], [12:0-3-0,0-2-0], [16:0-3-8,0-3-0], [18:0-2-12,0-3-4], [19:0-5-0,0-3-0], [20:0-2-12,0-2-8]

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	0.90	Vert(LL)	-0.27	18-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.46	18-19	>952	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.07	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 383 lb	FT = 20%

LUMBER

WEBS

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E *Except* 21-6:2x4 SP **BOT CHORD**

No.3, 10-17:2x4 SP No.2 2x4 SP No.3 *Except*

19-9,18-9,11-18,16-11,16-12,15-12,14-13:2x4

SP No.2

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 8-12. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing, Except:

6-0-0 oc bracing: 21-22,16-17.

1 Row at midpt 10-18

WEBS 1 Row at midpt 5-22, 7-20, 9-19, 11-16,

12-15 13-14

WEBS 2 Rows at 1/3 pts REACTIONS 2=0-3-8, 14=0-3-8, 22=0-3-8

(size) Max Horiz 2=357 (LC 13)

Max Uplift 14=-132 (LC 15), 22=-340 (LC 14) Max Grav

2=468 (LC 53), 14=1722 (LC 46),

22=2288 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-4=-920/26, 4-6=-474/286,

6-7=-514/109, 7-8=-1537/244, 8-9=-1359/240, 9-11=-1738/283 11-12=-1293/283, 12-13=-790/257,

13-14=-1811/202

BOT CHORD 2-22=-416/444, 21-22=-135/0, 20-21=-198/0

6-20=-226/69, 18-20=-257/1776, 17-18=0/121, 10-18=-396/141, 15-17=-134/858. 14-15=-110/154 WEBS

5-22=-1902/302, 20-22=-154/289, 5-20=-191/1489, 7-20=-1436/156,

7-19=-64/697, 8-19=-17/428, 9-19=-691/188, 9-18=-54/259, 16-18=-174/1471,

11-18=-102/818. 11-16=-1195/245 12-16=-157/1340, 12-15=-1171/200,

13-15=-138/1582, 4-22=-487/204

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 3-10-10, Interior (1) 3-10-10 to 14-7-3, Exterior(2R) 14-7-3 to 28-0-13, Interior (1) 28-0-13 to 35-10-3, Exterior(2R) 35-10-3 to 42-7-0, Exterior(2E) 42-7-0 to 47-5-12 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x5 MT20 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 it(s) 22 and 14. 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



TOP CHORD

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

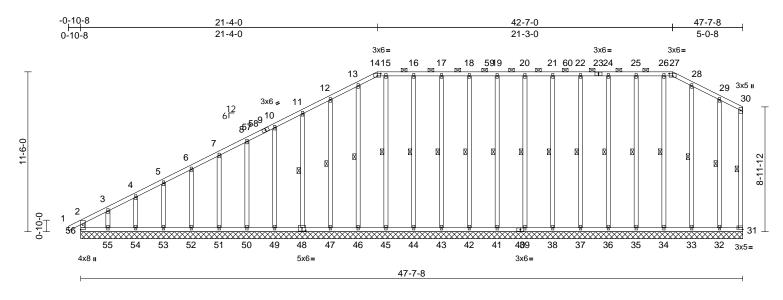
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	12 Eagle Creek-Kathryn B	
١	25050140-A	A10	Piggyback Base Supported Gable	1	1	Job Reference (optional)	173603693

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:27 ID:ITEzaUUfmX1fludiheVr6nzEwIK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.9

Plate Offsets (X, Y):	[14:0-3-0,0-2-0], [27:0	-3-0,0-2-0], [31:Edge,0)-1-8], [48:0-3-0,0-3-0]
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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	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	31	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 455 lb	FT = 20%

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

WFBS 2x4 SP No.3 *Except* 30-31:2x4 SP No.2 **OTHERS**

2x4 SP No.2 *Except*

47-12,48-11,49-10,50-8,51-7,52-6,53-5,54-4,

55-3,32-29:2x4 SP No.3

BRACING TOP CHORD

LUMBER

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-27.

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

bracing.

WEBS 1 Row at midpt 30-31, 20-39, 19-41, 18-42, 17-43, 16-44, 15-45, 13-46, 12-47, 11-48, 21-38, 22-37,

24-36, 25-35, 26-34, 28-33, 29-32

REACTIONS (size)

31=47-7-8, 32=47-7-8, 33=47-7-8, 34=47-7-8, 35=47-7-8, 36=47-7-8, 37=47-7-8, 38=47-7-8, 39=47-7-8, 41=47-7-8, 42=47-7-8, 43=47-7-8, 44=47-7-8, 45=47-7-8, 46=47-7-8,

47=47-7-8, 48=47-7-8, 49=47-7-8, 50=47-7-8, 51=47-7-8, 52=47-7-8,

53=47-7-8, 54=47-7-8, 55=47-7-8, 56=47-7-8

Max Horiz 56=363 (LC 11)

Max Uplift 31=-35 (LC 10), 32=-31 (LC 15), 33=-44 (LC 15), 34=-28 (LC 11), 35=-33 (LC 10), 36=-25 (LC 11),

37=-25 (LC 11), 38=-25 (LC 10), 39=-25 (LC 11), 41=-25 (LC 10), 42=-25 (LC 11), 43=-25 (LC 11),

44=-35 (LC 10), 45=-38 (LC 11), 46=-20 (LC 14), 47=-50 (LC 14), 48=-43 (LC 14), 49=-45 (LC 14),

50=-43 (LC 14), 51=-44 (LC 14), 52=-42 (LC 14), 53=-51 (LC 14), 54=-14 (LC 14), 55=-172 (LC 14),

56=-29 (LC 10)

Max Grav 31=85 (LC 53), 32=227 (LC 45), 33=243 (LC 45), 34=190 (LC 40),

35=221 (LC 40), 36=216 (LC 40), 37=219 (LC 40), 38=188 (LC 40), 39=160 (LC 1), 41=188 (LC 40),

42=219 (LC 40), 43=216 (LC 40), 44=221 (LC 40), 45=191 (LC 40), 46=217 (LC 43), 47=221 (LC 43),

48=220 (LC 43), 49=221 (LC 43), 50=180 (LC 43), 51=160 (LC 58), 52=161 (LC 43), 53=159 (LC 58), 54=164 (LC 1), 55=155 (LC 51),

56=256 (LC 31)

(lb) - Maximum Compression/Maximum

TOP CHORD 2-56=-207/144, 1-2=0/27, 2-3=-332/311,

3-4=-273/262, 4-5=-254/254, 5-6=-228/236, 6-7=-214/221, 7-8=-201/205, 8-10=-188/189,

10-11=-174/225, 11-12=-161/270, 12-13=-150/320, 13-14=-128/338, 14-15=-110/326, 15-16=-110/326,

16-17=-110/326, 17-18=-110/326, 18-19=-110/326, 19-20=-110/326, 20-21=-110/326, 21-22=-110/326,

22-24=-110/326, 24-25=-110/326, 25-26=-110/326, 26-27=-110/326,

27-28=-124/335, 28-29=-130/291, 29-30=-159/278, 30-31=-134/238



May 21,2025

Continued on page 2

FORCES



Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	A10	Piggyback Base Supported Gable	1	1	Job Reference (optional)	173603693

Run: 8 73 S. Feb 19 2025 Print: 8 730 S. Feb 19 2025 MiTek Industries. Inc. Mon May 19 14:42:27 ID:ITEzaUUfmX1fludiheVr6nzEwIK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

55-56=-113/185, 54-55=-113/185, BOT CHORD 53-54=-113/185, 52-53=-113/185, 51-52=-113/185, 50-51=-113/185, 49-50=-113/185, 47-49=-113/185, 46-47=-113/185, 45-46=-113/185, 44-45=-113/185, 43-44=-113/185, 42-43=-113/185, 41-42=-113/185, 39-41=-113/185, 38-39=-113/185, 37-38=-113/185, 36-37=-113/185, 35-36=-113/185, 34-35=-113/185, 33-34=-113/185, 32-33=-113/185, 31-32=-113/185 **WEBS** 20-39=-121/57, 19-41=-148/57, 18-42=-179/57, 17-43=-176/56, 16-44=-181/74, 15-45=-178/62, 13-46=-180/44, 12-47=-181/92, 11-48=-180/75, 10-49=-181/78, 8-50=-140/77, 7-51=-127/77, 6-52=-126/77, 5-53=-129/76, 4-54=-123/93, 3-55=-173/151, 21-38=-148/57, 22-37=-179/57, 24-36=-176/56, 25-35=-181/71, 26-34=-178/55, 28-33=-202/77, 29-32=-223/102

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-11-8, Exterior(2N) 3-11-8 to 16-6-14, Corner(3R) 16-6-14 to 25-11-8, Exterior(2N) 25-11-8 to 37-9-14, Corner(3R) 37-9-14 to 42-7-0, Corner(3E) 42-7-0 to 47-5-12 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.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) N/A
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



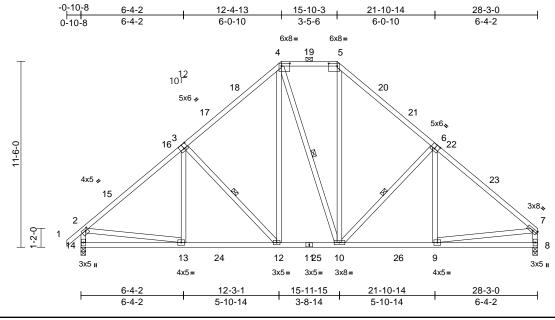
May 21,2025



Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	B1	Piggyback Base	1	1	Job Reference (optional)	173603694

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:27 ID:aFloEPoPLjeLiUtS0JRAUZzEwGe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.3

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

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	0.79	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.13	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 208 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 12-4,10-4,10-5:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

bracing.

WEBS 1 Row at midpt 3-12, 4-10, 6-10

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

Max Horiz 14=287 (LC 11)

Max Uplift 8=-87 (LC 15), 14=-107 (LC 14)

Max Grav 8=1383 (LC 53), 14=1444 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-4=-1810/223, 4-5=-1040/232,

5-7=-1803/225, 2-14=-1478/142,

7-8=-1431/119

BOT CHORD 13-14=-295/412, 12-13=-138/1343,

10-12=-35/966, 9-10=-7/1321, 8-9=-59/188

WEBS 3-13=-23/205, 3-12=-526/215, 4-12=-98/563, 4-10=-169/174, 5-10=-86/554,

6-10=-532/217, 6-9=-29/201, 2-13=0/1093,

7-9=0/1157

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 2-1-8, Interior (1) 2-1-8 to 8-1-14, Exterior(2R) 8-1-14 to 20-1-2, Interior (1) 20-1-2 to 25-1-4, Exterior(2E) 25-1-4 to 28-1-4 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 8. 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



May 21,2025

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

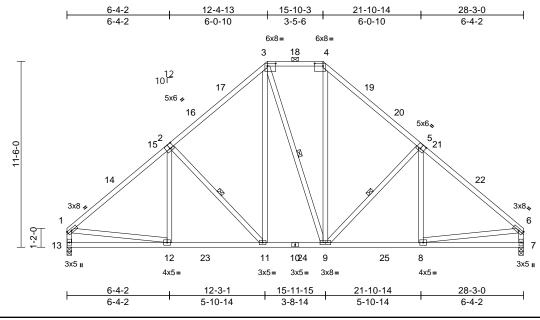
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	12 Eagle Creek-Kathryn B	
25050140-A	B2	Piggyback Base	9	1	Job Reference (optional)	173603695

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:27 ID:il5Z5UMuG9ZgrjzUGhnBuTzEwFv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.3

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

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	0.75	Vert(LL)	-0.08	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.13	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 207 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 11-3,9-3,9-4:2x4 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-12 max.): 3-4

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

bracing.

WEBS 1 Row at midpt 2-11, 3-9, 5-9

REACTIONS 7=0-3-8, 13=0-3-8 (size) Max Horiz 13=-273 (LC 10)

Max Uplift 7=-87 (LC 15), 13=-87 (LC 14)

Max Grav 7=1384 (LC 52), 13=1386 (LC 50)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1810/226, 3-4=-1041/233,

4-6=-1804/226, 1-13=-1433/120,

6-7=-1432/119

BOT CHORD 12-13=-270/363, 11-12=-140/1349, 9-11=-35/967, 8-9=-6/1322, 7-8=-59/188

2-12=-28/202, 2-11=-534/217, 3-11=-100/568,

3-9=-169/174, 4-9=-85/553, 5-9=-532/217,

5-8=-30/201, 1-12=-9/1142, 6-8=0/1158

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) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-1-14. Exterior(2R) 8-1-14 to 20-1-2. Interior (1) 20-1-2 to 25-1-4, Exterior(2E) 25-1-4 to 28-1-4 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.
- 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 it(s) 13 and 7. This connection is for uplift only and does not consider lateral forces.
- 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)

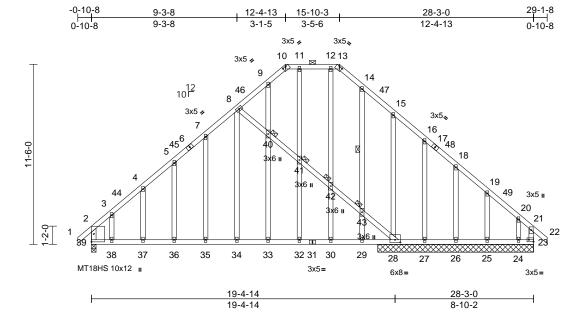


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	B3	Piggyback Base Supported Gable	1	1	Job Reference (optional)	173603696

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:27 ID:y_0gJ?GMaowZmZi4IT0O8AzEw8I-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.6

-		1		1	-		-	-	-			-
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	0.70	Vert(LL)	0.26	36-37	>868	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.23	36-37	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	23	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 255 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP 2400F 2 0F 2x4 SP 2400F 2.0E BOT CHORD **WEBS** 2x4 SP No.2 **OTHERS** 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 (6-0-0 max.): 10-13.

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

bracing.

WEBS 1 Row at midpt

JOINTS 1 Brace at Jt(s): 40,

41, 42, 43 REACTIONS (size)

23=9-11-8, 24=9-11-8, 25=9-11-8, 26=9-11-8, 27=9-11-8, 28=9-11-8,

39=0-3-8

Max Horiz 39=-293 (LC 12)

Max Uplift 23=-90 (LC 13), 24=-506 (LC 15),

25=-53 (LC 15), 26=-72 (LC 15),

27=-117 (LC 15), 28=-123 (LC 14),

39=-17 (LC 14)

Max Grav 23=781 (LC 56), 24=186 (LC 13),

25=183 (LC 22), 26=208 (LC 53), 27=104 (LC 53), 28=941 (LC 41),

39=1005 (LC 41)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-39=-851/25, 1-2=0/39, 2-3=-1003/0,

3-4=-942/0, 4-5=-892/21, 5-7=-859/79 7-8=-817/129, 8-9=-454/68, 9-10=-353/74,

10-11=-289/71, 11-12=-289/71,

12-13=-289/71, 13-14=-397/66, 14-15=-463/39, 15-16=-381/29,

16-18=-420/20, 18-19=-415/33,

19-20=-441/62, 20-21=-612/99, 21-22=0/39,

21-23=-533/76

BOT CHORD 38-39=-116/693, 37-38=-116/693,

36-37=-116/693, 35-36=-116/693, 34-35=-116/693, 33-34=-116/693, 32-33=-116/693, 30-32=-116/693,

29-30=-116/693, 28-29=-116/693,

27-28=-88/377, 26-27=-88/377,

25-26=-88/377, 24-25=-88/377,

23-24=-88/377

WFBS 3-38=-16/65, 4-37=-73/67, 5-36=-85/71,

7-35=-72/56, 8-34=-133/374, 9-40=-15/74,

11-41=-38/50, 12-42=0/61, 14-43=-110/71,

15-28=-295/89, 16-27=-166/119,

18-26=-164/98, 19-25=-158/96,

20-24=-101/284, 8-40=-713/297

40-41=-671/270, 41-42=-690/279,

42-43=-695/274, 28-43=-743/303,

33-40=-70/72, 32-41=-1/62, 30-42=0/69,

29-43=-53/42

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 9-3-8, Corner(3R) 9-3-8 to 18-10-3, Exterior(2N) 18-10-3 to 26-1-8, Corner(3E) 26-1-8 to 29-1-8 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 DOI =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.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



May 21,2025

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	12 Eagle Creek-Kathryn B	
25050140-A	B3	Piggyback Base Supported Gable	1	1	Job Reference (optional)	73603696

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:27 $ID: y_0gJ?GMaowZmZi4IT0O8AzEw8I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 2

14) N/A

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

LOAD CASE(S) Standard



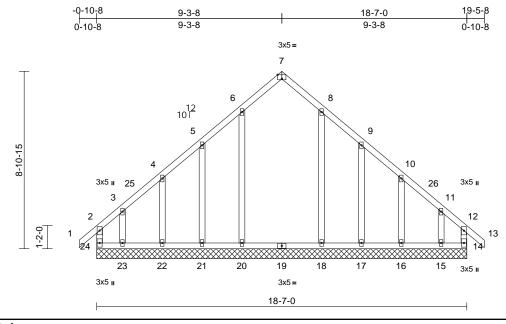
May 21,2025



Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	C1	Common Supported Gable	1	1	Job Reference (optional)	173603697

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:28 ID:jccPG?A1h8VnuEWhlQODDBzEw76-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:57.8

Plate Offsets (X, Y)	: [7:0-2-8,Edge]
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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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 120 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD

REACTIONS (size)

14=18-7-0, 15=18-7-0, 16=18-7-0, 17=18-7-0, 18=18-7-0, 20=18-7-0. 21=18-7-0, 22=18-7-0, 23=18-7-0, 24=18-7-0

Max Horiz 24=232 (LC 13)

Max Uplift 14=-89 (LC 13), 15=-272 (LC 15),

16=-45 (LC 15), 17=-118 (LC 15), 20=-1 (LC 14), 21=-116 (LC 14), 22=-45 (LC 14), 23=-275 (LC 14),

24=-101 (LC 12)

Max Grav 14=317 (LC 28), 15=193 (LC 13),

16=218 (LC 26), 17=176 (LC 22), 18=370 (LC 6), 20=370 (LC 5),

21=176 (LC 21), 22=218 (LC 25), 23=199 (LC 12), 24=321 (LC 27)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-24=-234/77, 1-2=0/39, 2-3=-295/136, 3-4=-167/89, 4-5=-135/61, 5-6=-127/75

6-7=-158/104, 7-8=-158/104, 8-9=-127/75, 9-10=-130/53, 10-11=-163/81,

11-12=-291/126, 12-13=0/39, 12-14=-231/70 BOT CHORD

23-24=-108/281, 22-23=-108/281, 21-22=-108/281, 20-21=-108/281,

18-20=-108/281, 17-18=-108/281,

16-17=-108/281, 15-16=-108/281,

14-15=-108/281

WEBS

6-20=-260/44, 5-21=-151/155, 4-22=-154/99, 3-23=-138/195, 8-18=-260/40, 9-17=-151/155, 10-16=-156/97, 11-15=-121/212

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-3-8. Corner(3R) 6-3-8 to 12-3-8. Exterior(2N) 12-3-8 to 16-5-8, Corner(3E) 16-5-8 to 19-5-8 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
- 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.
- 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, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 24, 89 lb uplift at joint 14, 1 lb uplift at joint 20, 116 lb uplift at joint 21, 45 lb uplift at joint 22, 275 lb uplift at joint 23, 118 lb uplift at joint 17, 45 lb uplift at joint 16 and 272 lb uplift at joint 15.

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

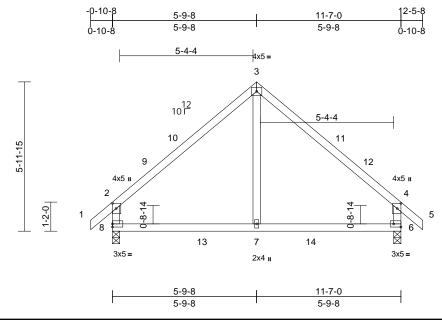
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	12 Eagle Creek-Kathryn B	
25050140-A	D1	Common	1	1	Job Reference (optional)	173603698

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:28 ID:khj6XF?hg1382himkic9zXzEw62-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.3

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-2-8,0-1-12], [6:Edge,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	0.64	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.07	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

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

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

BRACING

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

bracing.

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

Max Horiz 8=163 (LC 13)

Max Uplift 6=-49 (LC 15), 8=-49 (LC 14)

Max Grav 6=632 (LC 6), 8=632 (LC 5) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/39, 2-3=-572/141, 3-4=-573/140,

4-5=0/39, 2-8=-551/199, 4-6=-553/196

BOT CHORD 7-8=-2/347, 6-7=-2/347 WEBS 3-7=0/302

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 2-9-8, Exterior(2R) 2-9-8 to 8-9-8, Interior (1) 8-9-8 to 9-5-8, Exterior(2E) 9-5-8 to 12-5-8 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
- 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

- 4) 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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

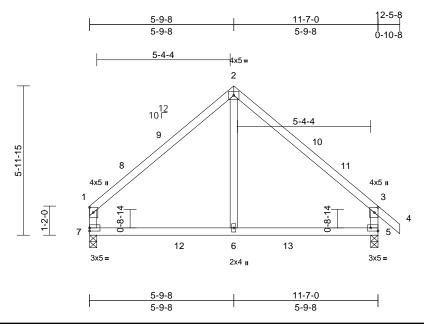
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	12 Eagle Creek-Kathryn B
25050140-A	D2	Common	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:28 ID:rB01Gh9rc1il6hCG?xLC?HzEw5r-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.3

Plate Offsets (X, Y): [3:0-2-8,0-1-12], [5:Edge,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	0.76	Vert(LL)	-0.05	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 52 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5=0-3-8, 7=0-3-8

Max Horiz 7=-156 (LC 10)

Max Uplift 5=-48 (LC 15), 7=-29 (LC 14)

Max Grav 5=633 (LC 6), 7=579 (LC 5) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-565/136, 2-3=-573/136, 3-4=0/39,

1-7=-502/146, 3-5=-552/194 **BOT CHORD** 6-7=-2/348, 5-6=-2/348

WEBS 2-6=0/295

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 8-9-8, Interior (1) 8-9-8 to 9-5-8, Exterior(2E) 9-5-8 to 12-5-8 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



May 21,2025

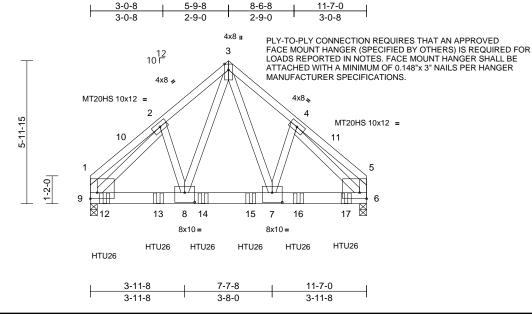


Job Truss Truss Type Qty Ply 12 Eagle Creek-Kathryn B 173603700 3 25050140-A D3 Common Girder Job Reference (optional)

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:28 ID:5keisCuUTTGnlvooWYPHQwzEw4v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.07	7-8	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 266 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 9-1,6-5:2x4 SP No.2

BRACING

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

bracing.

REACTIONS (size) 6=0-3-8, 9=0-3-8 Max Horiz 9=-140 (LC 35)

Max Uplift 6=-452 (LC 13), 9=-460 (LC 12) Max Grav 6=9519 (LC 6), 9=9725 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1830/136, 2-3=-7848/464, TOP CHORD

3-4=-7907/467, 4-5=-1953/142, 1-9=-1318/112. 5-6=-1398/116

BOT CHORD 8-9=-301/5640, 7-8=-208/4447,

6-7=-255/5689

WEBS 3-7=-317/5209, 4-7=-100/1308,

3-8=-310/5063, 2-8=-101/1318,

2-9=-6647/309, 4-6=-6578/305

NOTES

1) N/A

- 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 oc

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.

- 3) 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.
- 4) 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.
- 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.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces
- 12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 20-10dx1 1/2 Truss) or equivalent spaced at 2-3-0 oc max. starting at 0-7-4 from the left end to 10-8-12 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 6-9=-20 Concentrated Loads (lb)

Vert: 12=-2708 (B), 13=-2701 (B), 14=-2701 (B),

15=-2701 (B), 16=-2701 (B), 17=-2705 (B)



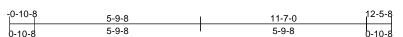
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

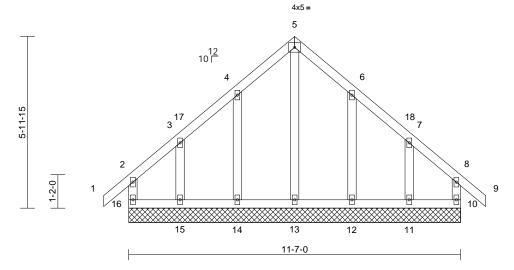
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	12 Eagle Creek-Kathryn B	
25050140-A	D4	Common Supported Gable	1	1	Job Reference (optional)	173603701

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:28 ID:?IFBeypHUpIRK5IIhMI1EzzEw17-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:40.2

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)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 71 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing

REACTIONS (size)

10=11-7-0, 11=11-7-0, 12=11-7-0, 13=11-7-0, 14=11-7-0, 15=11-7-0, 16=11-7-0

Max Horiz 16=163 (LC 13)

Max Uplift 10=-61 (LC 11), 11=-110 (LC 15),

12=-71 (LC 15), 14=-70 (LC 14), 15=-112 (LC 14), 16=-74 (LC 10)

Max Grav 10=153 (LC 25), 11=191 (LC 26), 12=279 (LC 22), 13=191 (LC 28),

14=279 (LC 21), 15=197 (LC 25),

16=163 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-16=-130/151, 1-2=0/39, 2-3=-98/99,

3-4=-65/181, 4-5=-116/287, 5-6=-116/287,

6-7=-64/183, 7-8=-85/87, 8-9=0/39,

8-10=-122/140

BOT CHORD 15-16=-80/102, 14-15=-80/102,

13-14=-80/102, 12-13=-80/102, 11-12=-80/102, 10-11=-80/102

WEBS 5-13=-282/47, 4-14=-238/142,

3-15=-156/145, 6-12=-238/140,

7-11=-146/159

NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 2-9-8, Corner(3R) 2-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 9-5-8, Corner(3E) 9-5-8 to 12-5-8 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
- 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.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 16, 61 lb uplift at joint 10, 70 lb uplift at joint 14, 112 lb uplift at joint 15, 71 lb uplift at joint 12 and 110 lb uplift at joint 11.

LOAD CASE(S) Standard



May 21,2025

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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	E1	Monopitch	2	1	Job Reference (optional)	

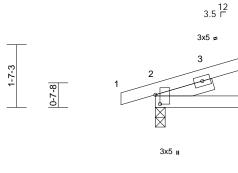
Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:29

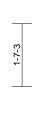
> 2x4 II 4 5

> > 2x4 II

Page: 1







3-0-12 3-0-12

Scale = 1:29.3

Plate Offsets (X, Y): [2:0-2-14,0-1-6]

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	0.14	Vert(LL)	0.01	7-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	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 2x4 SP No.2 BOT CHORD **WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-0 oc purlins, except end verticals.

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

REACTIONS (size) 2=0-3-0, 7=0-3-8

Max Horiz 2=50 (LC 13)

Max Uplift 2=-51 (LC 10), 7=-25 (LC 14)

Max Grav 2=245 (LC 21), 7=180 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/21, 2-4=-93/36, 4-5=-6/0, 4-7=-127/75

BOT CHORD 2-7=-62/102, 6-7=0/0

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.

- 6) * 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) 7 and 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	PB1	Piggyback	2	1	Job Reference (optional)	73603703

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:29 ID:n7MOvDHFzRY3JmeeamW89dzEwfq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



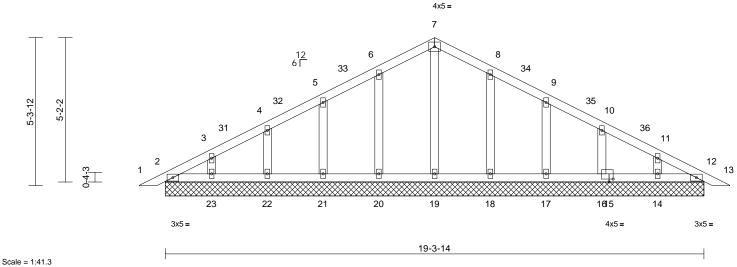


Plate Offsets (X, Y): [15:0-1-12,0-1-4]

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER

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 10-0-0 oc

bracing.

REACTIONS (size) 2=19-3-14, 12=19-3-14,

14=19-3-14, 16=19-3-14, 17=19-3-14, 18=19-3-14, 19=19-3-14, 20=19-3-14, 21=19-3-14, 22=19-3-14, 23=19-3-14

Max Horiz 2=81 (LC 18)

Max Uplift 2=-9 (LC 15), 14=-42 (LC 15), 16=-44 (LC 15), 17=-44 (LC 15),

18=-45 (LC 15), 20=-46 (LC 14), 21=-44 (LC 14), 22=-44 (LC 14),

23=-43 (LC 14)

Max Grav 2=103 (LC 21), 12=103 (LC 22), 14=152 (LC 37), 16=177 (LC 22), 17=228 (LC 22), 18=246 (LC 22),

19=146 (LC 28), 20=246 (LC 21), 21=228 (LC 21), 22=177 (LC 21),

23=152 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/17, 2-3=-93/40, 3-4=-70/51, 4-5=-50/70, 5-6=-56/94, 6-7=-68/132, 7-8=-68/132, 8-9=-56/84, 9-10=-47/43 10-11=-45/21, 11-12=-59/26, 12-13=0/17 2-23=-20/77, 22-23=-20/77, 21-22=-20/77,

BOT CHORD

20-21=-20/77, 19-20=-20/77, 18-19=-20/77, 17-18=-20/77, 16-17=-20/77, 14-16=-20/77, 12-14=-20/77

WEBS

7-19=-106/0, 6-20=-206/83, 5-21=-187/67, 4-22=-137/69, 3-23=-117/61, 8-18=-206/83,

9-17=-187/68, 10-16=-137/69, 11-14=-117/61

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior (1) 3-4-3 to 7-7-8, Exterior(2R) 7-7-8 to 13-7-8, Interior (1) 13-7-8 to 17-10-13, Exterior(2E) 17-10-13 to 20-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- 11) * 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

12) N/A



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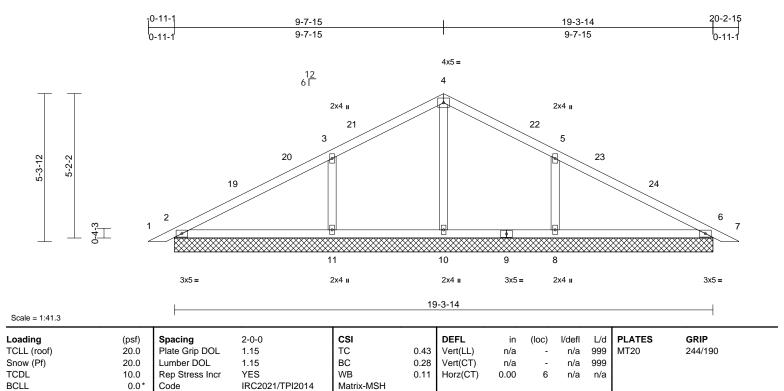
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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	PB2	Piggyback	22	1	Job Reference (optional)	603704

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Page: 1



LUMBER

BCDL

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

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=19-3-14, 6=19-3-14, 8=19-3-14,

10=19-3-14, 11=19-3-14 Max Horiz 2=81 (LC 18)

2=-17 (LC 14), 6=-32 (LC 15), Max Uplift

8=-135 (LC 15), 11=-136 (LC 14) 2=250 (LC 1), 6=250 (LC 1), 8=610

Max Grav (LC 22), 10=191 (LC 22), 11=610

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/17, 2-3=-112/69, 3-4=-161/135, 4-5=-161/135, 5-6=-103/47, 6-7=0/17

BOT CHORD 2-11=-21/81, 10-11=0/81, 8-10=0/81,

6-8=0/81

4-10=-149/0, 3-11=-465/180, 5-8=-465/180

WEBS 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) 0-4-3 to 3-4-3, Interior (1) 3-4-3 to 7-7-8, Exterior(2R) 7-7-8 to 13-7-8, Interior (1) 13-7-8 to 17-10-13, Exterior(2E) 17-10-13 to 20-10-13 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.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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) N/A
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Weight: 79 lb

FT = 20%

May 21,2025

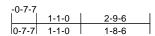
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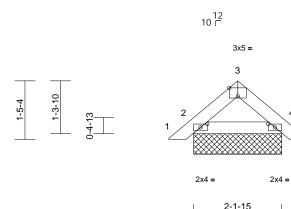
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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	PB3	Piggyback	1	1	Job Reference (optional)	173603705

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:29 ID:3Dn9TeDsWZQ8HxOJ3dySzKzEw8M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:28.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-6 oc purlins. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 2=2-1-15, 4=2-1-15

Max Horiz 2=29 (LC 13)

Max Uplift 2=-7 (LC 14), 4=-14 (LC 15) Max Grav 2=148 (LC 21), 4=137 (LC 22)

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

Tension

TOP CHORD 1-2=0/22, 2-3=-67/36, 3-4=-67/38, 4-5=0/22

BOT CHORD 2-4=-46/46

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 design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 21,2025

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

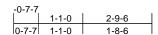
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



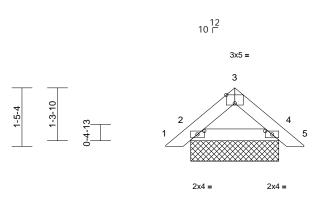
Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	PB4	Piggyback	10	1	Job Reference (optional)	173603706

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:29 ID:ete2pkm9p6OdTBj4uuPiP8zEwGg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



2-1-15



Scale = 1:28.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-6 oc purlins. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=2-1-15, 4=2-1-15

Max Horiz 2=29 (LC 13)

Max Uplift 2=-14 (LC 14), 4=-11 (LC 15) Max Grav 2=136 (LC 21), 4=142 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-66/38, 3-4=-67/36, 4-5=0/22

BOT CHORD 2-4=-3/46

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 desian.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 21,2025

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/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)

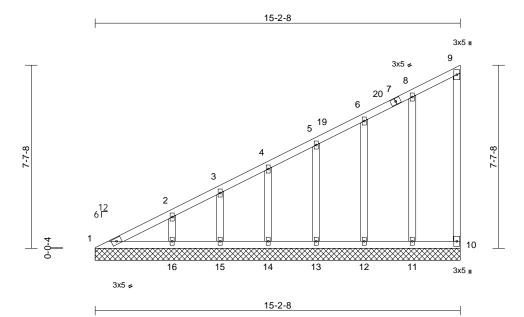


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V1	Valley	1	1	Job Reference (optional)	173603707

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Tue May 20 17:51:17 ID:kr1X9FAX6EsYmJsqFumInazEw?N-jCqQb9fLxejfm0eJIRmJxpFvu3fvMVakJS5vOrzEi1O

Page: 1



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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	0.70	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 89 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS All bearings 15-2-8.

(lb) - Max Horiz 1=274 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s)

10, 11, 12, 13, 14, 15, 16

Max Grav All reactions 250 (lb) or less at joint (s) 1, 10, 11, 12, 13, 14, 15 except

16=260 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 1-2=-246/263

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-8 to 3-3-0, Exterior(2N) 3-3-0 to 12-1-4, Corner(3E) 12-1-4 to 15-1-4 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
- 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
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6)
- 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 100 lb uplift at joint (s) 10, 11, 12, 13, 14, 15, 16.



May 21,2025

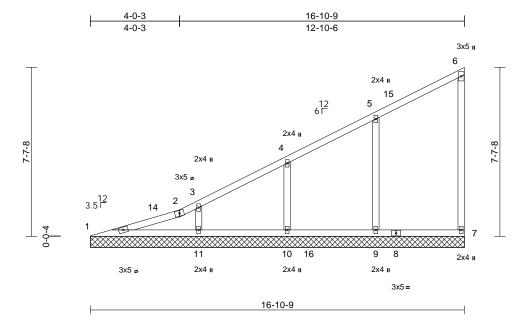
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V2	Valley	1	1	Job Reference (optional)	3603708

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:30 ID:E6XBu8MGVsRpDZOIi_GyMGzEwFw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:52	:52	1	=	Scale	
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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	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 76 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)

1=16-10-9, 7=16-10-9, 9=16-10-9, 10=16-10-9, 11=16-10-9

Max Horiz 1=276 (LC 11)

Max Uplift 1=-25 (LC 10), 7=-35 (LC 11),

9=-93 (LC 14), 10=-92 (LC 14),

11=-49 (LC 14)

Max Grav 1=216 (LC 20), 7=168 (LC 24), 9=445 (LC 5), 10=334 (LC 24),

11=479 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-471/208, 2-3=-210/224, 3-4=-194/197,

4-5=-161/169, 5-6=-133/117, 6-7=-121/52 **BOT CHORD** 1-11=-92/442, 10-11=-92/130, 9-10=-92/130,

7-9=-92/130

WFBS 5-9=-292/146, 4-10=-237/144, 3-11=-317/108

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 and C-C Exterior(2E) 0-0-14 to 3-0-14, Interior (1) 3-0-14 to 13-9-11, Exterior(2E) 13-9-11 to 16-9-11 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

- 2) 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 35 lb uplift at joint 7, 93 lb uplift at joint 9, 92 lb uplift at joint 10 and 49 lb uplift at joint 11.

LOAD CASE(S) Standard



May 21,2025

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

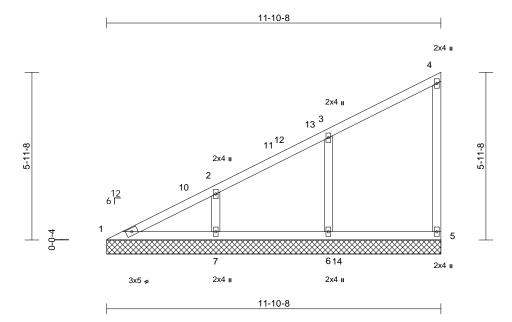
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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V3	Valley	2	1	Job Reference (optional)	173603709

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Mon May 19 14:42:30 ID:RmdJFglpll77zrclq_xeBhzEw?D-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	:4	0	ı.

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	0.36	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	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 52 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

BOT CHORD

Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=11-10-8, 5=11-10-8, 6=11-10-8,

> 7=11-10-8 Max Horiz 1=212 (LC 11)

Max Uplift 5=-28 (LC 11), 6=-39 (LC 14), 7=-83 (LC 14)

1=153 (LC 25), 5=207 (LC 5), Max Grav

6=486 (LC 5), 7=362 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-267/196, 2-3=-140/158, 3-4=-120/102,

4-5=-153/42

BOT CHORD 1-7=-70/264, 6-7=-70/102, 5-6=-70/102

3-6=-388/166, 2-7=-267/126 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) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 7-6-5, Exterior(2R) 7-6-5 to 11-9-4 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
- 2) 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5, 39 lb uplift at joint 6 and 83 lb uplift at joint 7.

LOAD CASE(S) Standard



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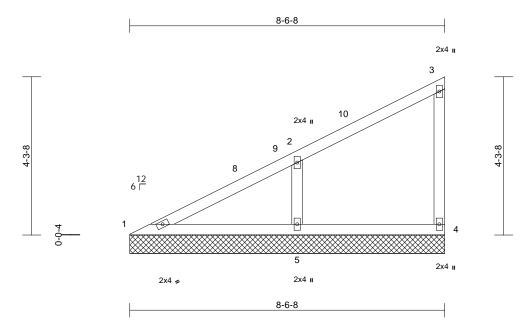
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	12 Eagle Creek-Kathryn B	
25050140-A	V4	Valley	2	1	Job Reference (optional)	173603710

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:30 ID:RmdJFglpll77zrclq_xeBhzEw?D-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	_		4	.24	
Sua	ı	=		.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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	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: 34 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. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=8-6-8, 4=8-6-8, 5=8-6-8

Max Horiz 1=150 (LC 11)

Max Uplift 4=-21 (LC 11), 5=-94 (LC 14) Max Grav 1=143 (LC 1), 4=165 (LC 20),

5=555 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-242/156, 2-3=-104/85, 3-4=-142/50

BOT CHORD 1-5=-50/268, 4-5=-50/73

WEBS 2-5=-428/241

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) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 4-2-5, Exterior(2R) 4-2-5 to 8-5-4 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
- 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

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 4 and 94 lb uplift at joint 5.

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.

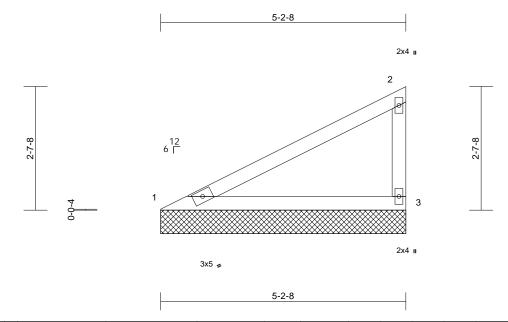
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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V5	Valley	2	1	Job Reference (optional)	173603711

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:30 ID:RmdJFglpll77zrclq_xeBhzEw?D-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.5

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	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 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

5-2-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1=5-2-8, 3=5-2-8 REACTIONS (size) Max Horiz 1=87 (LC 11)

Max Uplift 1=-21 (LC 14), 3=-43 (LC 14) Max Grav 1=292 (LC 20), 3=292 (LC 20)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-504/134, 2-3=-199/104

BOT CHORD 1-3=-175/441

NOTES

FORCES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3 and 21 lb uplift at joint 1.

LOAD CASE(S) Standard



May 21,2025

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

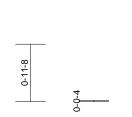
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

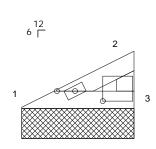


Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B
25050140-A	V6	Valley	2	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:30 ID:RmdJFglpll77zrclq_xeBhzEw?D-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





1-10-8



2x4 -

5x6 =

1-10-8

Scale = 1:19.2

Plate Offsets (X, Y): [3:0-9-3,0-2-0]

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 5 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=1-10-8, 3=1-10-8

Max Horiz 1=25 (LC 11)

Max Uplift 1=-8 (LC 14), 3=-14 (LC 14) Max Grav 1=87 (LC 20), 3=87 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-98/28, 2-3=-44/20

BOT CHORD 1-3=-36/81

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
- Truss designed for wind loads in the plane of the truss only. For study 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.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3 and 8 lb uplift at joint 1.

LOAD CASE(S) Standard



May 21,2025

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

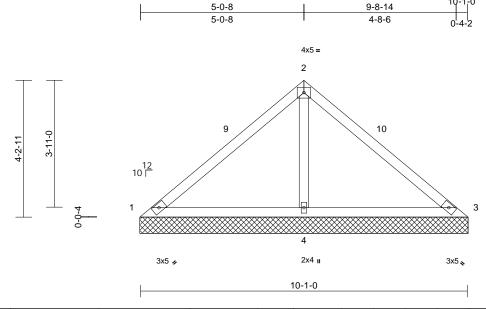
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Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V7	Valley	1	1	Job Reference (optional)	173603713

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:30 ID:vURZoBueuARNAFfLgAPFeRzEyO5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:35.6

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	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 38 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

10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=10-1-10, 3=10-1-10, 4=10-1-10

Max Horiz 1=95 (LC 13)

Max Unlift 1=-67 (LC 21), 3=-67 (LC 20),

4=-121 (LC 14)

1=86 (LC 20), 3=86 (LC 21), 4=846 Max Grav

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-131/421, 2-3=-131/421

1-4=-278/187, 3-4=-278/187 **BOT CHORD** 2-4=-705/295

WFBS NOTES

TOP 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 7-1-10, Exterior(2É) 7-1-10 to 10-1-10 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 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 67 lb uplift at joint 1, 67 lb uplift at joint 3 and 121 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 21,2025

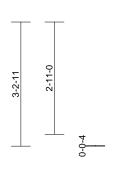


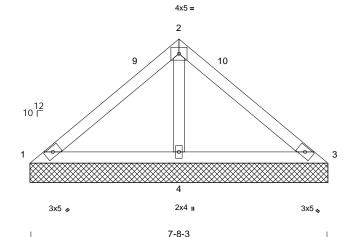
Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V8	Valley	1	1	I7 Job Reference (optional)	73603714

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:30 ID:vURZoBueuARNAFfLgAPFeRzEyO5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:29.9

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 29 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

7-8-3 oc purlins.

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

bracing.

REACTIONS (size) 1=7-8-13, 3=7-8-13, 4=7-8-13

Max Horiz 1=-71 (LC 10)

Max Uplift 1=-31 (LC 21), 3=-31 (LC 20),

4=-85 (LC 14)

Max Grav 1=102 (LC 20), 3=102 (LC 21),

4=597 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/268, 2-3=-106/268 **BOT CHORD**

1-4=-209/167, 3-4=-209/167 2-4=-480/225

WEBS 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 4-8-13, Exterior(2É) 4-8-13 to 7-8-13 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 31 lb uplift at joint 1, 31 lb uplift at joint 3 and 85 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 21,2025

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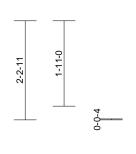


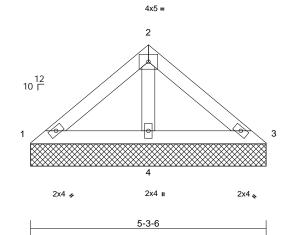
Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V9	Valley	1	1	Job Reference (optional)	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Mon May 19 14:42:30 ID:s?bJz7nrbi73jWb3U9IAZ1zEw52-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:25.8

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	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: 19 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

5-3-6 oc purlins.

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

bracing.

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

Max Horiz 1=-48 (LC 10) Max Uplift 3=-6 (LC 15), 4=-39 (LC 14)

Max Grav 1=93 (LC 20), 3=93 (LC 21), 4=333

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-84/122, 2-3=-84/122

BOT CHORD 1-4=-99/100, 3-4=-99/100

WEBS 2-4=-245/116

NOTES

- 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) 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 6 lb uplift at joint 3 and 39 lb uplift at joint 4.

LOAD CASE(S) Standard

May 21,2025

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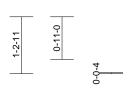
Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V10	Valley	1	1	Job Reference (optional)	173603716

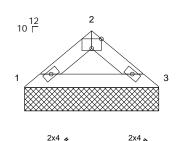
Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Mon May 19 14:42:30 ID:s?bJz7nrbi73jWb3U9IAZ1zEw52-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x5 =





2-10-10

Plate Offsets (X, Y): [2:0-2-8,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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-10 oc purlins.

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

bracing.

REACTIONS (size) 1=2-10-10, 3=2-10-10

Max Horiz 1=24 (LC 13)

Max Uplift 1=-10 (LC 14), 3=-10 (LC 15) Max Grav 1=132 (LC 20), 3=132 (LC 21)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-169/70, 2-3=-169/70 BOT CHORD 1-3=-39/121

NOTES

FORCES

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

- 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 1 and 10 lb uplift at joint 3.

LOAD CASE(S) Standard



May 21,2025

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

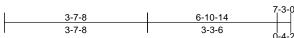
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

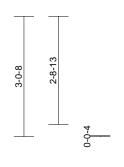


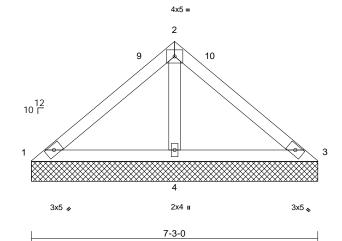
Job		Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
2505014	-0-A	V11	Valley	1	1	Job Reference (optional)	173603717

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Mon May 19 14:42:31

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Scale = 1:29.2

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	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			1							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

7-3-0 oc purlins.

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

bracing.

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

Max Horiz 1=-67 (LC 10)

Max Uplift 1=-17 (LC 21), 3=-17 (LC 20),

4=-74 (LC 14)

1=105 (LC 20), 3=105 (LC 21), Max Grav

4=534 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-89/230, 2-3=-89/230

1-4=-180/152, 3-4=-180/152 **BOT CHORD**

WEBS 2-4=-422/200

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) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 4-3-5, Exterior(2E) 4-3-5 to 7-3-5 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 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 74 lb uplift at joint 4.

LOAD CASE(S) Standard



Page: 1

May 21,2025

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/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)

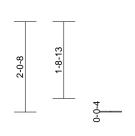


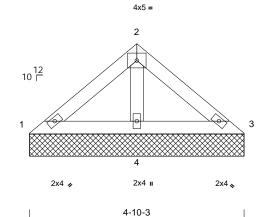
Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V12	Valley	1	1	Job Reference (optional)	173603718

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Page: 1







Scale = 1:26

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: 17 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

4-10-3 oc purlins.

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

bracing.

REACTIONS (size) 1=4-10-3, 3=4-10-3, 4=4-10-3

Max Horiz 1=-43 (LC 10) Max Uplift 3=-7 (LC 15), 4=-33 (LC 14)

Max Grav 1=88 (LC 20), 3=88 (LC 21), 4=295

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-81/103, 2-3=-81/103

BOT CHORD 1-4=-84/88, 3-4=-84/88

WEBS 2-4=-210/97

NOTES

- 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) 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 7 lb uplift at joint 3 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard



May 21,2025

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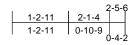
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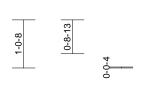


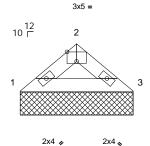
Job	Truss	Truss Type	Qty	Ply	12 Eagle Creek-Kathryn B	
25050140-A	V13	Valley	1	1	Job Reference (optional)	173603719

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Page: 1







2-5-6

Plate Offsets (X, Y): [2:0-2-8,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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-5-6 oc purlins.

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

bracing.

REACTIONS (size) 1=2-5-6, 3=2-5-6 Max Horiz 1=-20 (LC 10)

Max Uplift 1=-8 (LC 14), 3=-8 (LC 15)

Max Grav 1=110 (LC 20), 3=110 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-139/60, 2-3=-139/60

BOT CHORD 1-3=-32/99

NOTES

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

- 7) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard

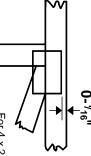


Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

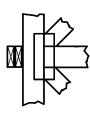
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22:

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

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- 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

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.