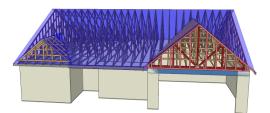


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450



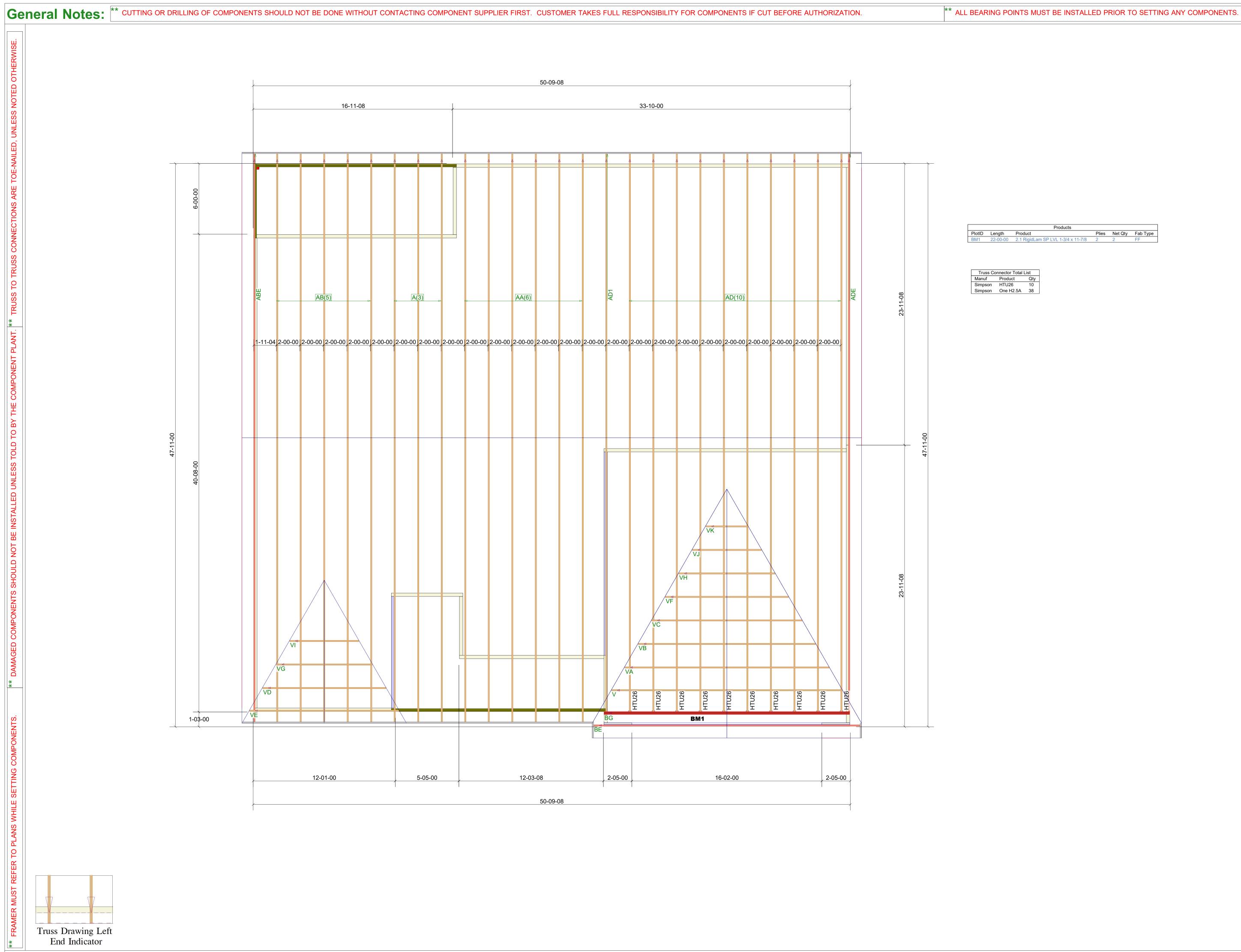
Builder: Lamco Custom Builders LLC

Model: Kristie A RH - 75 Blackberry Manor

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:
--------------	-------



Revisions Name 00/00/00 Name 00/00/00 Name

00/00/00 Name

RH Custom Builders

ROOF PLACEMENT

NTS

Scale: Date:

10/8/2025 Designer: Mike Finch

Project Number: **25090182-01** Sheet Number:

Truss Drawing Left End Indicator



Customer: Job Name: City:

Customer Ph.

Job Name: 01

Level: 1st Floor Label: BM1 - i45 Type: Beam

2 Ply Member

2.1 RigidLam SP LVL 1-3/4 x 11-7/8

Status: Design **Passed**

10/08/2025 14:29

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2023.09.18 8.7.3.303.Update13.26 1 2 2-04-08 16-02-00 2-04-08 20-11-00

DESIGN INFORMATION a

IRC2015 **Building Code:** Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry System Spacing:

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

Lateral Restraint Requirements:

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

Top: 20'- 11" Bottom: 20'- 11"

Bearing Stress of Support Material:

- 725 psi Wall @ 0'- 1 1/2"
- 725 psi Wall @ 2'- 3"
- 725 psi Wall @ 18'- 8"
- 725 psi Wall @ 20'- 9 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	10'- 5 1/2"	D + Lr	1.15	1087 lb ft	17352 lb ft	Passed - 6%
Max Neg. Moment: Max Shear:	18'- 8"	D + Lr	1.15	1693 lb ft	17352 lb ft	Passed - 10%
Max Shear:	17'- 6 5/8"	D + Lr	1.15	592 lb	9241 lb	Passed - 6%
Live Load (LL) Pos. Defl.:	10'- 5 1/2"	Lr		0.018"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	10'- 5 1/2"	D + Lr		0.037"	L/240	Passed - L/999

SUF	PORT AND	REACTION INFORM	IATION					
ID	Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result
1	9-00	0.6D + 0.6W	1.60	63 lb		32870 lb	22838 lb	Passed - 0%
1	9-00	D + Lr	1.15		-717 lb	-	-	
1	1-06-00	D + Lr	1.15	1558 lb		47250 lb	45675 lb	Passed - 3%
1	1-06-00	0.6D + 0.6W	1.60		-247 lb	-	-	
2	1-06-00	D + Lr	1.15	1558 lb		47250 lb	45675 lb	Passed - 3%
2	1-06-00	0.6D + 0.6W	1.60		-245 lb	-	-	
2	9-00	0.6D + 0.6W	1.60	60 lb		32870 lb	22838 lb	Passed - 0%
2	9-00	D + Lr	1.15		-717 lb	-	-	

LOADI	NG								
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Self Weight	0'	20'- 11"	Self Weight	Тор	11 lb/ft	-	-	-	-
Point	0'- 1 3/4"	0'- 1 3/4"	BE(Cond01)	Top	66 lb	-	30 lb	92 lb	45/-171 lb
Point	2'- 5 1/2"	2'- 5 1/2"	BE(Cond01)	Top	79 lb	-	23 lb	81 lb	35/-117 lb
Point	4'- 5 1/2"	4'- 5 1/2"	BE(Cond01)	Top	68 lb	-	22 lb	76 lb	34/-120 lb
Point	6'- 5 1/2"	6'- 5 1/2"	BE(Cond01)	Тор	71 lb	-	22 lb	72 lb	34/-118 lb
Point	8'- 5 1/2"	8'- 5 1/2"	BE(Cond01)	Тор	70 lb	-	22 lb	71 lb	36/-119 lb
Point	10'- 5 1/2"	10'- 5 1/2"	BE(Cond01)	Тор	62 lb	-	21 lb	79 lb	17/-116 lb
Point	12'- 5 1/2"	12'- 5 1/2"	BE(Cond01)	Тор	70 lb	-	22 lb	71 lb	36/-119 lb
Point	14'- 5 1/2"	14'- 5 1/2"	BE(Cond01)	Тор	71 lb	-	22 lb	72 lb	34/-118 lb
Point	16'- 5 1/2"	16'- 5 1/2"	BE(Cond01)	Тор	69 lb	-	22 lb	77 lb	34/-120 lb
Point	18'- 5 1/2"	18'- 5 1/2"	BE(Cond01)	Тор	77 lb	-	22 lb	81 lb	33/-114 lb
Point	20'- 9 1/4"	20'- 9 1/4"	BE(Cond01)	Тор	67 lb	-	31 lb	93 lb	46/-174 lb

UNFAC	CTORED RE	EACTIONS						
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
1	0'	2'- 4 1/2"	E8(i14)	848/-349 lb	-	201/-72 lb	787/-356 lb	275 lb/ -807 lb
==>	0'- 1 1/2"	0'- 1 1/2"	E8(i14)	-349 lb	-	-72 lb	98/-350 lb	-
==>	2'- 3"	2'- 3"	E8(i14)	848 lb	-	201 lb	689/-6 lb	-
2	18'- 6 1/2"	20'- 11"	E7(i11)	852/-352 lb	-	202/-73 lb	784/-350 lb	275 lb/ -807 lb
==>	18'- 8"	18'- 8"	E7(i11)	852 lb	-	202 lb	691 lb	-
==>	20'- 9 1/2"	20'- 9 1/2"	E7(i11)	-352 lb	-	-73 lb	93/-350 lb	-

DESIGN NOTES

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



Customer:
Job Name:
City:
Customer Ph..

Job Name: **01** Level: **1st**

Level: 1st Floor Label: BM1 - i45 Type: Beam 2 Ply Member 2.1 RigidLam SP LVL 1-3/4 x 11-7/8

Design Passed

Status:

PLY TO PLY CONNECTION

 Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.

Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	A	Common	3	1	Job Reference (optional)	176928219

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:19 ID:izE4PK3PWVrgRrjE9dB3DJzVKul-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

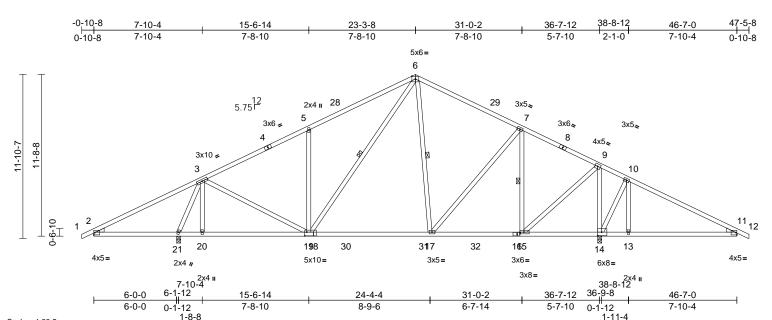


Plate Offsets (X, Y): [14:0-3-8,0-3-0], [15:0-3-8,0-1-8], [16:0-2-6,0-1-8], [19:0-1-12,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.25	17-19	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.37	17-19	>982	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 278 lb	FT = 20%

LUMBER

Scale = 1:83.5

TOP CHORD 2x4 SP No 1 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 17-6,6-19:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-2 oc purlins.

BOT CHORD Rigid ceiling directly applied or 5-10-10 oc

bracing.

WEBS 1 Row at midpt 7-15, 6-17, 6-19 REACTIONS 14=0-3-8, 21=0-3-8 (size)

Max Horiz 21=114 (LC 15)

Max Uplift 14=-24 (LC 16), 21=-35 (LC 15)

Max Grav 14=2155 (LC 2), 21=1672 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-403/690, 3-5=-981/156,

5-6=-986/334, 6-7=-759/200, 7-9=-481/83 9-10=-548/928, 10-11=-458/760, 11-12=0/27

2-21=-519/444, 20-21=-52/276, **BOT CHORD**

19-20=-52/276, 17-19=0/658, 15-17=0/397,

14-15=-881/744, 13-14=-578/494,

11-13=-578/494

WEBS 5-19=-486/320, 7-15=-892/425,

9-14=-1579/557, 9-15=-536/1522, 6-17=-144/176, 6-19=-202/424,

3-20=-22/177, 3-19=-145/743, 7-17=-103/409, 3-21=-1577/409,

10-13=-252/225, 10-14=-657/541

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- All bearings are assumed to be SP No.2.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 21. This connection is for uplift only and does not consider lateral forces

LOAD CASE(S) Standard



October 9,2025

Page: 1

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

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



Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	AA	Common	6	1	Job Reference (optional)	I76928220

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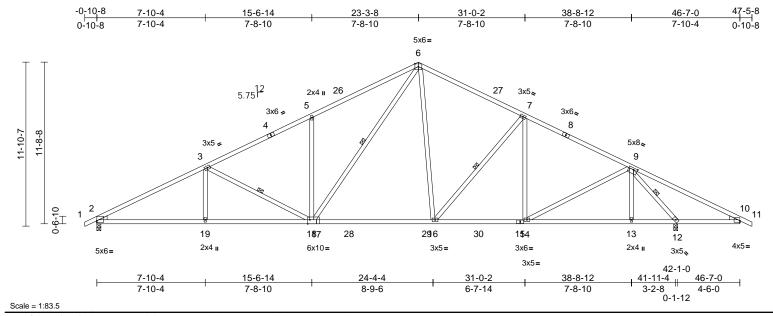


Plate Offsets (X, Y): [2:Edge,0-1-6], [9:0-3-9,0-1-8], [10:Edge,0-1-6], [18:0-1-12,Edge]

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	0.78	Vert(LL)	-0.30	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.55	16-18	>919	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.12	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 268 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP 2400F 2.0E *Except* 4-1,8-11:2x4 SP TOP CHORD

No.1

2x4 SP No.1 *Except* 15-17:2x4 SP No.2 2x4 SP No.3 *Except* 16-6,6-18:2x4 SP No.2

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

BRACING

WEBS

WEDGE

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing. WEBS

1 Row at midpt 9-12, 6-18, 3-18, 7-16

REACTIONS 2=0-3-8, 12=0-3-8 (size)

Max Horiz 2=114 (LC 15)

Max Grav 2=1755 (LC 2), 12=2177 (LC 2)

FORCES

TOP CHORD

BOT CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=0/28, 2-3=-3184/674, 3-5=-2547/616,

5-6=-2563/799, 6-7=-1872/558,

7-9=-2075/503, 9-10=-333/629, 10-11=0/28 2-19=-491/2769, 18-19=-491/2769,

16-18=-62/1558, 14-16=-178/1785,

13-14=-85/1174, 12-13=-84/1174,

10-12=-465/383

9-12=-2551/663, 5-18=-527/321, **WEBS**

7-14=-167/138, 6-16=-38/570, 9-13=0/125,

6-18=-394/1212, 3-19=0/137, 3-18=-646/237,

9-14=-125/704, 7-16=-394/172

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- All bearings are assumed to be SP No.1.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	AB	Common	5	1	Job Reference (optional)	176928221

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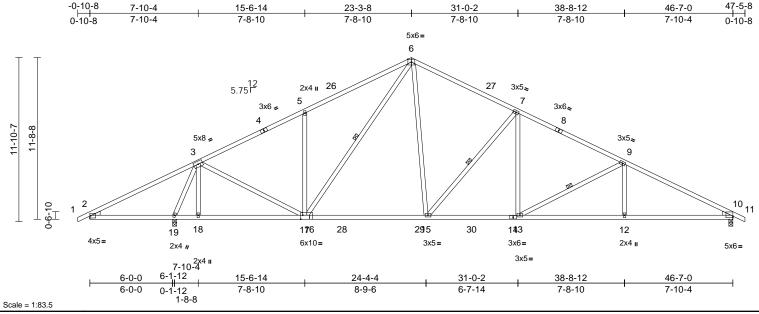


Plate Offsets (X, Y): [10:Edge,0-1-6], [17:0-1-12,Edge]

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)	-0.28	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49	15-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 266 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 4-1.8-11:2x4 SP No.2 BOT CHORD 2x4 SP No.1 *Except* 14-16:2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except* 15-6,6-17:2x4 SP No.2 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 9-13, 6-17, 7-15

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

Max Horiz 19=114 (LC 15) Max Grav 10=1671 (LC 2), 19=2262 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-388/701, 3-5=-1712/385,

5-6=-1717/564, 6-7=-1740/512,

7-9=-2352/563, 9-10=-3005/617, 10-11=0/28

BOT CHORD 2-19=-527/431, 18-19=-33/489,

17-18=-33/489, 15-17=-2/1402,

13-15=-227/2033, 12-13=-435/2609,

10-12=-435/2609

WEBS 5-17=-507/312, 7-13=-25/464,

9-13=-661/234, 9-12=0/147, 6-15=-152/954,

6-17=-131/281, 3-18=-44/183,

3-17=-283/1228, 7-15=-912/323,

3-19=-2185/548

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- All bearings are assumed to be SP No.1.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. 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.

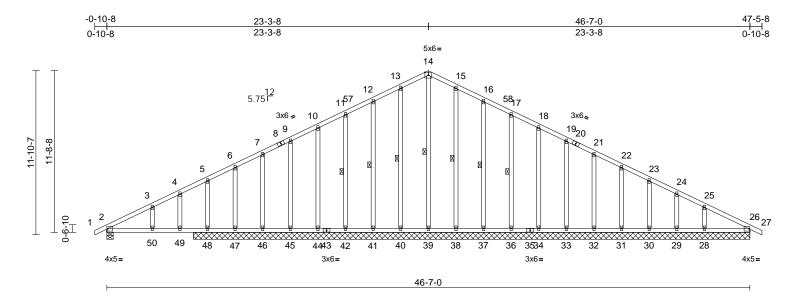
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	ABE	Common Supported Gable	1	1	Job Reference (optional)	176928222

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:20 ID:8TxkjCuFkU1Wfs_DuyrA6QzVDtC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:83.5

BRACING

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.08	50	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.17	50	>519	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 341 lb	FT = 20%

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

2x4 SP No.3 *Except* 39-14,40-13,38-15:2x4

SP No.2

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.

WFRS 1 Row at midpt 14-39, 13-40, 12-41,

11-42, 15-38, 16-37,

17-36

REACTIONS (size) 2=0-5-8, 26=40-3-8, 28=40-3-8, 29=40-3-8, 30=40-3-8, 31=40-3-8, 32=40-3-8, 33=40-3-8, 34=40-3-8,

36=40-3-8, 37=40-3-8, 38=40-3-8, 39=40-3-8, 40=40-3-8, 41=40-3-8, 42=40-3-8 44=40-3-8 45=40-3-8 46=40-3-8, 47=40-3-8, 48=40-3-8

Max Horiz 2=111 (LC 15) Max Uplift 28=-44 (LC 16), 29=-7 (LC 16),

30=-20 (LC 16), 31=-17 (LC 16), 32=-18 (LC 16), 33=-18 (LC 16),

34=-18 (LC 16), 36=-17 (LC 16), 37=-21 (LC 16), 38=-11 (LC 16), 40=-12 (LC 15), 41=-21 (LC 15),

42=-17 (LC 15), 44=-18 (LC 15), 45=-15 (LC 15), 46=-28 (LC 15), 47=-136 (LC 33), 48=-88 (LC 15) Max Grav 2=337 (LC 2), 26=227 (LC 2), 28=239 (LC 34), 29=127 (LC 2), 30=163 (LC 34), 31=153 (LC 2), 32=155 (LC 34), 33=155 (LC 2), 34=155 (LC 2), 36=155 (LC 34), 37=193 (LC 23), 38=201 (LC 23), 39=158 (LC 16), 40=200 (LC 22), 41=194 (LC 22), 42=154 (LC 2), 44=159 (LC 33), 45=138 (LC 2), 46=226 (LC 33), 47=26 (LC 15), 48=642 (LC 33)

(lb) - Maximum Compression/Maximum Tension

1-2=0/27, 2-3=-215/20, 3-4=-156/42, 4-5=-125/58, 5-6=-196/100, 6-7=-135/122, 7-9=-152/171, 9-10=-157/214, 10-11=-172/258, 11-12=-187/301,

12-13=-204/347, 13-14=-216/385, 14-15=-216/385. 15-16=-204/347. 16-17=-187/301, 17-18=-172/258, 18-19=-157/214, 19-21=-150/170,

21-22=-150/126, 22-23=-151/82, 23-24=-149/37, 24-25=-157/16,

25-26=-181/29, 26-27=0/27 2-50=-93/149, 49-50=0/149, 48-49=0/149, 47-48=0/148, 46-48=0/149, 45-46=0/149, 44-48=0/149, 45-46=0/149, 42-6/149, 42-6/149, 42-6/149, 42-6/149, 43-39-0/149, 43-3

34-0/149, 32-33=0/149, 31,32=0/149 30-31=0/149, 29-30=0/149, 28-29=0/149, 26-28=-18/149 SEAL 26-28=-18/149

036322

The Thinne

14-39=-254/107, 13-40=-161/63, **WEBS** 12-41=-155/86, 11-42=-116/77, 10-44=-117/79, 9-45=-111/76, 7-46=-144/89, 6-47=0/30, 5-48=-339/165, 4-49=-44/49, 3-50=-55/69, 15-38=-162/63, 16-37=-155/86, 17-36=-116/77, 18-34=-116/79,

19-33=-116/78, 21-32=-116/79, 22-31=-115/78, 23-30=-121/82,

24-29=-99/66, 25-28=-170/118

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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.

October 9,2025

FORCES

TOP CHORD

BOT CHORD



Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	ABE	Common Supported Gable	1	1	Job Reference (optional)	176928222

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:20 ID:8TxkjCuFkU1Wfs_DuyrA6QzVDtC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- * 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) All bearings are assumed to be SP No.2 .

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	AD	Common	10	1	Job Reference (optional)	176928223

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:20 ID:izE4PK3PWVrgRrjE9dB3DJzVKuI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

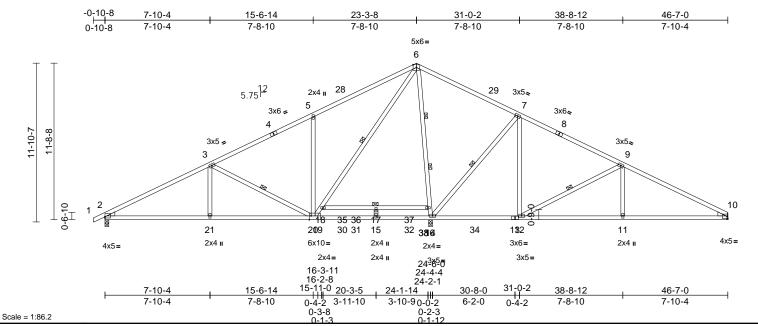


Plate Offsets (X, Y): [2:Edge,0-1-2], [19:0-1-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.29	15-20	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.58	15-20	>501	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 272 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 14-6,6-20:2x4 SP No.2 WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing. WEBS 1 Row at midpt

WEBS 6-14 2 Rows at 1/3 pts REACTIONS 2=0-3-8, 10= Mechanical, 14=0-3-8 (size)

Max Horiz 2=119 (LC 15)

Max Uplift 10=-59 (LC 16) Max Grav 2=878 (LC 33), 10=663 (LC 34),

7-14, 9-12, 6-20, 3-20

14=2814 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-1312/233, 3-5=-631/122,

5-6=-646/304, 6-7=0/735, 7-9=-244/227,

9-10=-977/283 **BOT CHORD** 2-21=-242/1097, 20-21=-113/1097,

15-20=-433/315, 14-15=-433/315,

12-14=-175/131, 11-12=-159/797,

10-11=-230/797, 17-18=-30/13, 16-17=-30/13

6-16=-1695/248, 14-16=-1776/189,

7-14=-884/358, 7-12=-55/461,

9-12=-761/262, 9-11=0/194, 18-20=-305/1350, 6-18=-242/1409,

5-20=-497/328, 3-20=-704/293, 3-21=0/149,

15-17=-47/16

NOTES

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 20-3-5 from left end, supported at two points, 5-0-0 apart.
- * 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.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 14 SP No.2
- Refer to girder(s) for truss to truss connections.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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

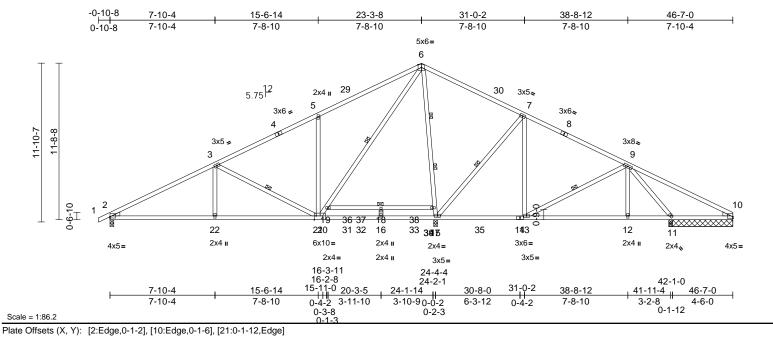
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	AD1	Common	1	1	Job Reference (optional)	176928224

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID:0h7OQyXRoGFn2FhS8fl7v5zVDtg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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BCDL LUMBER

Loading

TCDL

BCLL

TCLL (roof)

Snow (Pf/Pg)

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

WEBS 2x4 SP No.3 *Except* 15-6,6-21:2x4 SP No.2 WEDGE

(psf)

20.0

10.0

0.0

10.0

13.9/20.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS 1 Row at midpt 9-13, 3-21, 6-21, 7-15

WEBS 2 Rows at 1/3 pts 6-15

REACTIONS (size) 2=0-3-8, 10=4-9-8, 11=0-3-8, 15=0-3-8

Max Horiz 2=119 (LC 15)

Max Uplift 10=-48 (LC 16), 11=-5 (LC 16) Max Grav 2=900 (LC 33), 10=348 (LC 34),

11=493 (LC 34), 15=2738 (LC 3) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/28, 2-3=-1343/228, 3-5=-643/129, 5-6=-658/311, 6-7=0/664, 7-9=-290/248,

9-10=-391/328 **BOT CHORD** 2-22=-236/1121, 21-22=-107/1121,

16-21=-370/299, 15-16=-370/299, 13-15=-191/169, 12-13=-118/556,

11-12=-118/556, 10-11=-230/343, 18-19=-29/14, 17-18=-29/14

WFBS 7-13=-37/373, 9-13=-510/217, 9-12=0/134, 5-21=-515/317, 3-21=-720/281, 3-22=0/147, 6-17=-1665/213, 15-17=-1746/154,

> 19-21=-285/1383. 6-19=-223/1442. 7-15=-800/331, 16-18=-47/16, 9-11=-457/38

NOTES

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.97

0.94

0.62

in (loc)

16-21

16-21

-0.29

-0.59

0.03

I/defI

>999

>498

n/a

L/d

240

180

PLATES

Weight: 279 lb

MT20

GRIP

244/190

FT = 20%

CSI

TC

BC

WB

Matrix-MSH

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 20-3-5 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated
- * 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.
- All bearings are assumed to be SP No.2.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 15, and 11. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



October 9,2025

2-0-0

1.15

1.15

YES

IRC2015/TPI2014

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

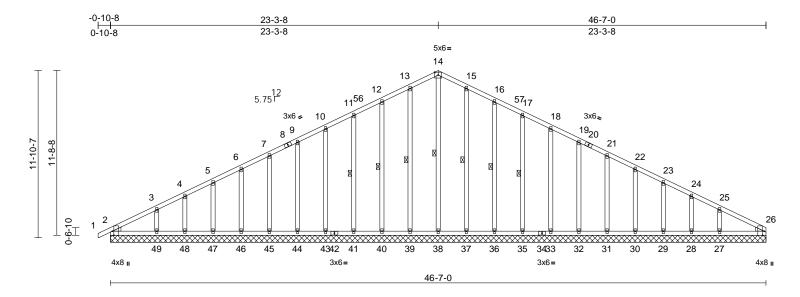
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	ADE	Common	1	1	Job Reference (optional)	176928225

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID:0h7OQyXRoGFn2FhS8fl7v5zVDtg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:81.9

Plate Offsets (X, Y):	[2:0-3-8,Edge],	[26:0-3-8,Edge]
-----------------------	-----------------	-----------------

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	26	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 341 lb	FT = 20%

L	U	M	В	E	R	

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

OTHERS 2x4 SP No.3 *Except* 38-14,39-13,37-15:2x4

SP No.2

WEDGE Left: 2x4 SP No.2

Right: 2x4 SP No.2

BRACING

REACTIONS (size)

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.

WEBS 1 Row at midpt 14-38, 13-39, 12-40, 11-41, 15-37, 16-36,

17-35

2=46-7-0, 26=46-7-0, 27=46-7-0, 28=46-7-0, 29=46-7-0, 30=46-7-0,

31=46-7-0. 32=46-7-0. 33=46-7-0. 35=46-7-0, 36=46-7-0, 37=46-7-0, 38=46-7-0, 39=46-7-0, 40=46-7-0,

41=46-7-0, 43=46-7-0, 44=46-7-0, 45=46-7-0, 46=46-7-0, 47=46-7-0, 48=46-7-0, 49=46-7-0

Max Horiz 2=115 (LC 15)

Max Uplift

27=-40 (LC 16), 28=-5 (LC 16), 29=-17 (LC 16), 30=-14 (LC 16), 31=-15 (LC 16), 32=-15 (LC 16), 33=-15 (LC 16), 35=-14 (LC 16),

36=-19 (LC 16), 37=-8 (LC 16), 39=-10 (LC 15), 40=-18 (LC 15), 41=-15 (LC 15), 43=-15 (LC 15), 44=-15 (LC 15), 45=-15 (LC 15),

46=-14 (LC 15), 47=-18 (LC 15), 48=-4 (LC 15), 49=-45 (LC 15)

Max Grav 2=181 (LC 2), 26=122 (LC 2), 27=264 (LC 34), 28=121 (LC 2), 29=169 (LC 34), 30=157 (LC 2), 31=160 (LC 34), 32=159 (LC 2),

33=159 (LC 34), 35=159 (LC 2), 36=196 (LC 23), 37=208 (LC 23),

38=162 (LC 32), 39=207 (LC 22), 40=193 (LC 22), 41=159 (LC 2), 43=159 (LC 33), 44=159 (LC 2),

45=160 (LC 33), 46=157 (LC 2), 47=168 (LC 33), 48=125 (LC 2),

49=251 (LC 33)

(lb) - Maximum Compression/Maximum

Tension 1-2=0/27, 2-3=-150/57, 3-4=-114/49,

4-5=-98/58 5-6=-87/73 6-7=-75/90

7-9=-69/113, 9-10=-78/157, 10-11=-93/201, 11-12=-109/245, 12-13=-125/291, 13-14=-139/330, 14-15=-139/330,

15-16=-125/291, 16-17=-109/245, 17-18=-93/201, 18-19=-78/157

19-21=-63/113, 21-22=-54/69, 22-23=-54/28, 23-24=-64/14, 24-25=-81/12, 25-26=-130/46

BOT CHORD 2-49=-37/147, 48-49=-37/147, 47-48=-37/147, 46-47=-37/147

45-46=-37/147, 44-45=-37/147, 43-44=-37/147, 41-43=-37/147, 40-41=-37/147, 39-40=-37/147, 38-39=-37/147, 37-38=-37/147,

36-37=-37/147, 35-36=-37/147, 33-35=-37/147, 32-33=-37/147, 31-32=-37/147, 30-31=-37/147,

29-30=-37/147, 28-29=-37/147, 27-28=-37/147, 26-27=-37/147

WEBS 14-38=-211/39, 13-39=-168/63, 12-40=-155/82, 11-41=-121/75,

10-43=-120/76, 9-44=-120/76, 7-45=-121/76, 6-46=-120/75, 5-47=-125/78, 4-48=-103/66,

3-49=-170/108, 15-37=-170/63, 16-36=-158/82, 17-35=-121/75, 18-33=-120/76, 19-32=-120/76,

21-31=-121/76, 22-30=-119/75, 23-29=-125/79, 24-28=-101/64,

25-27=-176/110

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33



October 9,2025

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

FORCES

TOP CHORD

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	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	ADE	Common	1	1	Job Reference (optional)	176928225

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID: 0h7OQyXRoGFn2FhS8fl7v5zVDtg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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) All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	BE	Common Supported Gable	1	1	Job Reference (optional)	176928226

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID:dkcpCokXUhjkQTmURyaLPzzVDs7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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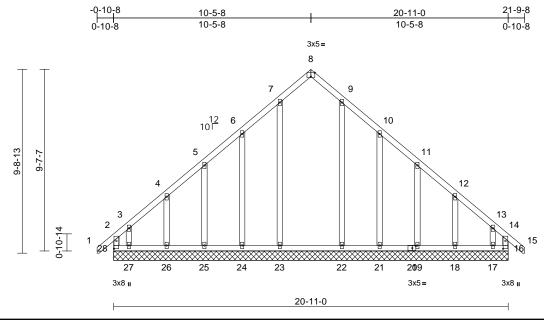


Plate Offsets (X, Y): [8:0-2-8,Edge], [16:0-5-0,0-1-8], [20:0-2-4,0-1-8], [28:0-5-0,0-1-8]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 142 lb	FT = 20%

LUMBER TOP CHORD

Scale = 1:61.1

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

REACTIONS (size)

16=20-11-0, 17=20-11-0, 18=20-11-0, 19=20-11-0, 21=20-11-0, 22=20-11-0, 23=20-11-0, 24=20-11-0, 25=20-11-0. 26=20-11-0. 27=20-11-0, 28=20-11-0 Max Horiz 28=-199 (LC 11)

Max Uplift 16=-103 (LC 12), 17=-225 (LC 14), 18=-28 (LC 14), 19=-32 (LC 14), 21=-58 (LC 14), 24=-56 (LC 13), 25=-32 (LC 13), 26=-27 (LC 13),

27=-229 (LC 13), 28=-123 (LC 11) Max Grav 16=321 (LC 14), 17=180 (LC 12), 18=180 (LC 26), 19=182 (LC 26), 21=158 (LC 30), 22=256 (LC 26),

23=265 (LC 25), 24=158 (LC 29), 25=183 (LC 25), 26=180 (LC 25), 27=192 (LC 11), 28=329 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-28=-264/195, 1-2=0/49, 2-3=-333/246, 3-4=-208/156, 4-5=-132/90, 5-6=-119/52, 6-7=-106/56, 7-8=-107/79, 8-9=-107/79, 9-10=-95/56, 10-11=-110/39, 11-12=-131/90, 12-13=-208/156, 13-14=-332/253, 14-15=0/49, 14-16=-263/200

BOT CHORD 27-28=-183/247, 26-27=-183/247,

25-26=-183/247, 24-25=-183/247, 23-24=-183/247, 22-23=-183/247, 21-22=-183/247, 19-21=-183/247, 18-19=-183/247. 17-18=-183/247.

16-17=-183/247 WEBS

7-23=-148/14, 9-22=-140/8, 6-24=-172/120, 5-25=-145/83, 4-26=-154/91, 3-27=-199/186, 10-21=-172/120, 11-19=-145/83, 12-18=-154/91, 13-17=-201/185

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 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).
- Gable studs spaced at 2-0-0 oc.

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) All bearings are assumed to be SP No.2.
- 12) N/A
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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)

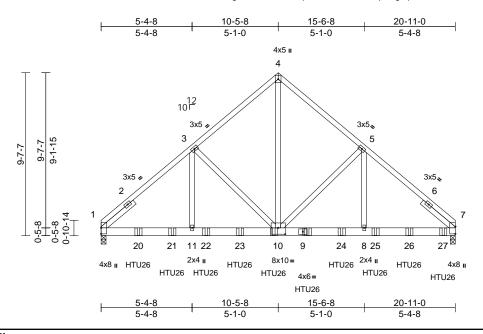


Ply Job Truss Truss Type Qty 75 Blackberry Manor-Roof-Kristie A RH 176928227 2 25090182-01 BG Common Girder Job Reference (optional)

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID:S9VW1g?z4ldTh?0vHHUkrqzVDrm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:68

Plate Offsets (X, Y): [10:0-5-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.08	10-11	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.14	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 289 lb	FT = 20%

LUMBER

BRACING

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

SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or

5-4-9 oc purlins.

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

bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8

1=-167 (LC 28) Max Horiz

Max Uplift 1=-277 (LC 9), 7=-326 (LC 10) 1=3862 (LC 2), 7=4324 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-3=-4629/385, 3-4=-3365/348,

4-5=-3366/348, 5-7=-4665/388

BOT CHORD 1-11=-296/3483, 10-11=-296/3483,

8-10=-239/3515, 7-8=-239/3515 **WEBS** 4-10=-374/3835, 5-10=-1420/222,

5-8=-131/1578, 3-10=-1375/217,

3-11=-126/1533

NOTES

TOP CHORD

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

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

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

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

- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1 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.
- All bearings are assumed to be SP No.2 .
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-8 from the left end to 20-2-8 to connect truss(es) to back face of bottom chord.
- 10) 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: 1-4=-52, 4-7=-52, 12-16=-19

Concentrated Loads (lb)

Vert: 9=-528 (B), 10=-528 (B), 20=-528 (B), 21=-528 (B), 22=-528 (B), 23=-528 (B), 24=-528 (B), 25=-528

(B), 26=-528 (B), 27=-531 (B)



October 9,2025

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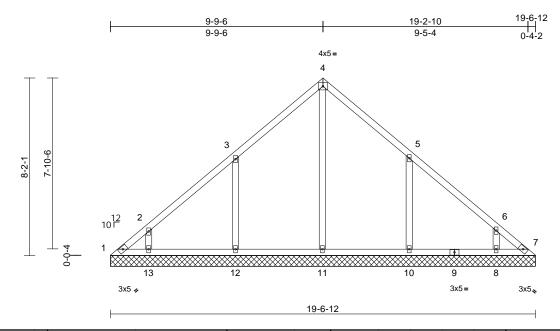
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	V	Valley	1	1	Job Reference (optional)	176928228

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID:YVZ0DcWp1y7wR66GaxnuMuzVDth-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=19-6-12, 7=19-6-12, 8=19-6-12,

10=19-6-12, 11=19-6-12, 12=19-6-12, 13=19-6-12

Max Horiz 1=158 (LC 10)

Max Uplift 1=-81 (LC 9), 8=-14 (LC 14),

10=-97 (LC 14), 12=-85 (LC 13),

13=-44 (LC 13)

Max Grav 1=110 (LC 12), 7=0 (LC 12), 8=299

(LC 2), 10=456 (LC 25), 11=482 (LC 27), 12=459 (LC 24), 13=285

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-183/192, 2-3=-183/176, 3-4=-251/264, 4-5=-252/264. 5-6=-101/93. 6-7=-49/71 BOT CHORD 1-13=-38/51, 12-13=-27/42, 11-12=-27/42,

10-11=-27/43, 8-10=-27/43, 7-8=-27/43

WFRS 4-11=-266/73, 3-12=-338/200, 2-13=-262/161, 5-10=-339/205, 6-8=-252/143

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow): Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a 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) All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard



October 9,2025

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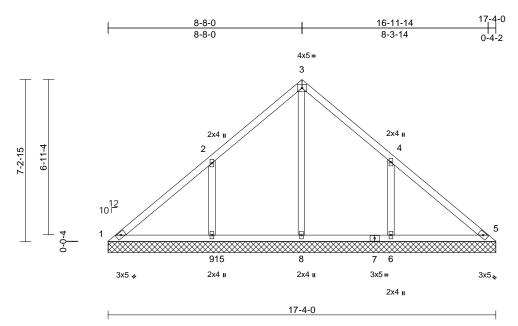
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VA	Valley	1	1	Job Reference (optional)	176928229

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:21 ID:1bpNOez4nqFuqYHKc8x1DBzVDrp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale	=	1:51	5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 78 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=17-4-0, 5=17-4-0, 6=17-4-0,

8=17-4-0, 9=17-4-0 1=139 (LC 10)

Max Horiz 1=-48 (LC 9), 6=-88 (LC 14), 9=-93 Max Uplift

(LC 13)

1=85 (LC 28), 5=1 (LC 25), 6=515 Max Grav

(LC 25), 8=672 (LC 24), 9=505 (LC

24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-87/368, 2-3=0/299, 3-4=0/295,

4-5=-150/326

1-9=-200/72, 8-9=-200/72, 6-8=-199/72,

5-6=-199/72 WEBS

3-8=-510/0, 2-9=-361/205, 4-6=-359/203

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- All bearings are assumed to be SP No.2 .

 LOAD CASE(S) Standard



October 9,2025

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

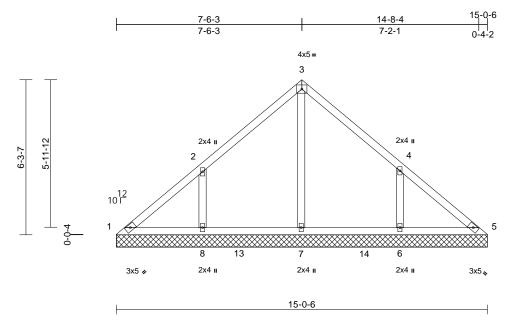
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Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VB	Valley	1	1	Job Reference (optional)	176928230

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:1bpNOez4nqFuqYHKc8x1DBzVDrp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:46.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 66 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=15-0-6, 5=15-0-6, 6=15-0-6, 7=15-0-6, 8=15-0-6

Max Horiz 1=-121 (LC 11)

1=-12 (LC 9), 6=-74 (LC 14), 8=-76 Max Uplift

(LC 13)

1=120 (LC 25), 5=106 (LC 2), Max Grav

6=419 (LC 25), 7=426 (LC 24),

8=420 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-144/147, 2-3=-101/113, 3-4=-94/114,

4-5=-120/115

BOT CHORD 1-8=-96/121, 7-8=-96/96, 6-7=-96/96,

5-6=-96/96 WEBS

3-7=-258/0, 2-8=-320/185, 4-6=-318/184

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard

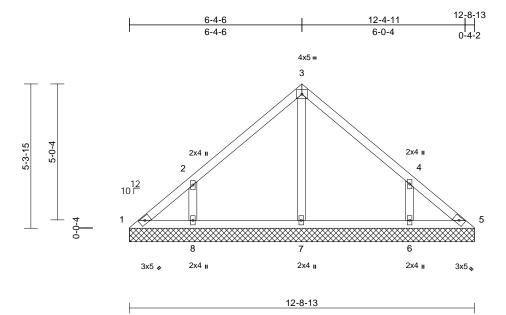


October 9,2025

Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VC	Valley	1	1	Job Reference (optional)	176928231

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:1bpNOez4nqFuqYHKc8x1DBzVDrp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.5

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=12-8-13, 5=12-8-13, 6=12-8-13, 7=12-8-13, 8=12-8-13

Max Horiz 1=-102 (LC 9)

Max Uplift 1=-19 (LC 9), 6=-64 (LC 14), 8=-67

(LC 13)

1=101 (LC 25), 5=86 (LC 24), Max Grav

6=348 (LC 25), 7=270 (LC 2),

8=352 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-125/95, 2-3=-146/110, 3-4=-137/111,

4-5=-106/60

BOT CHORD 1-8=-33/89, 7-8=-33/65, 6-7=-33/65,

5-6=-33/80 WEBS

3-7=-186/0, 2-8=-303/183, 4-6=-298/180

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .

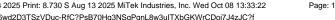
LOAD CASE(S) Standard

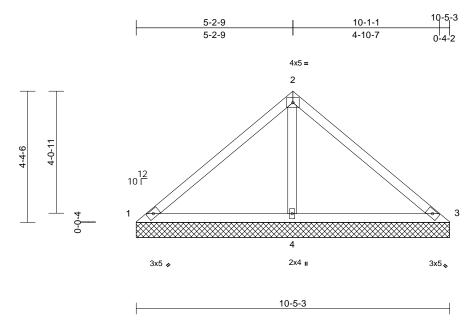


October 9,2025

Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VD	Valley	1	1	Job Reference (optional)	176928232

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:n9VjqRooxqhls16wd2D3TSzVDuc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





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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	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 40 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=10-5-3, 3=10-5-3, 4=10-5-3

Max Horiz 1=-83 (LC 11)

Max Uplift 1=-39 (LC 29), 3=-37 (LC 28), 4=-3

(LC 13)

Max Grav 1=65 (LC 28), 3=68 (LC 29), 4=854

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-110/379, 2-3=-109/374

1-4=-300/160, 3-4=-296/158 **BOT CHORD**

WEBS 2-4=-667/215

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard



October 9,2025

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

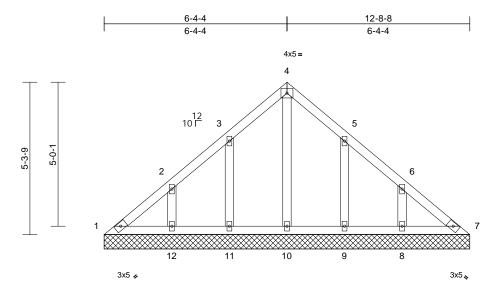
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VE	Valley	1	1	Job Reference (optional)	176928233

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:FL351npQi8p9TBh6Bmll?fzVDub-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 62 lb	FT = 20%

12-8-8

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=12-8-8, 7=12-8-8, 8=12-8-8, 9=12-8-8, 10=12-8-8, 11=12-8-8,

12=12-8-8

Max Horiz 1=-101 (LC 11) Max Uplift 1=-10 (LC 9), 8=-29 (LC 14), 9=-39

(LC 14), 11=-39 (LC 13), 12=-31

(LC 13)

Max Grav 1=95 (LC 25), 7=79 (LC 2), 8=219

(LC 25), 9=181 (LC 25), 10=170 (LC 2), 11=180 (LC 24), 12=222

(LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-113/101, 2-3=-70/75, 3-4=-92/108, 4-5=-92/108, 5-6=-46/51, 6-7=-89/83 BOT CHORD 1-12=-78/93. 11-12=-78/88. 10-11=-78/88.

> 9-10=-78/88, 8-9=-78/88, 7-8=-78/88 4-10=-126/0, 3-11=-161/101, 2-12=-163/92,

5-9=-161/101, 6-8=-163/92

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33

- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow): Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 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 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.
- 9) All bearings are assumed to be SP No.2 . LOAD CASE(S) Standard



October 9,2025

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

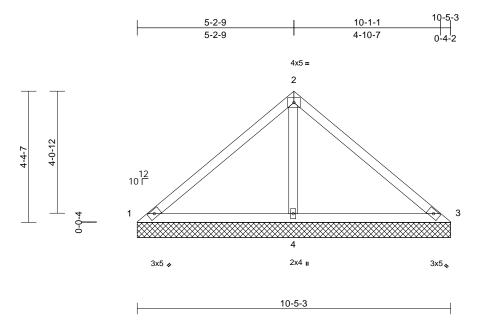
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VF	Valley	1	1	Job Reference (optional)	176928234

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:1bpNOez4nqFuqYHKc8x1DBzVDrp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 40 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=10-5-3, 3=10-5-3, 4=10-5-3

Max Horiz 1=-83 (LC 11)

1=-39 (LC 29), 3=-37 (LC 28), 4=-3 Max Uplift

(LC 13)

Max Grav 1=65 (LC 28), 3=68 (LC 29), 4=855

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-110/379, 2-3=-109/374

1-4=-300/160, 3-4=-296/158 **BOT CHORD**

WFBS 2-4=-667/215

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

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.

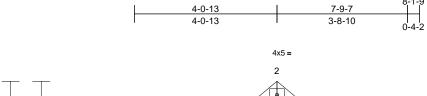
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

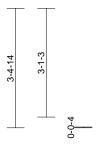


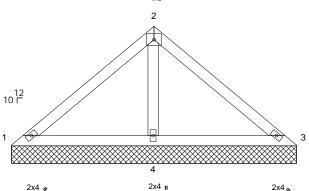
Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VG	Valley	1	1	Job Reference (optional)	176928235

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:F3VnScXd0yL_BfvaDM1hcNzVDaJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







8-1-9

Scale = 1:32.9

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0			ļ							Weight: 31 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

8-1-9 oc purlins.

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

bracing.

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

Max Horiz 1=-64 (LC 11)

1=-17 (LC 29), 3=-15 (LC 28), 4=-2 Max Uplift

(LC 13)

Max Grav 1=64 (LC 28), 3=67 (LC 29), 4=631

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-84/259, 2-3=-82/255

BOT CHORD 1-4=-230/133, 3-4=-226/132

WEBS 2-4=-464/153

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

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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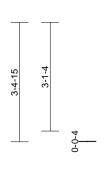


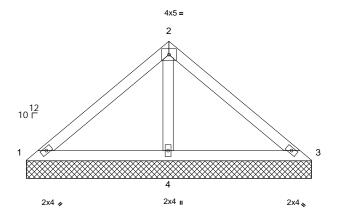
Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VH	Valley	1	1	Job Reference (optional)	176928236

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Oct 08 13:33:22 ID:1bpNOez4nqFuqYHKc8x1DBzVDrp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







8-1-9

Scale = 1:32.9

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0	l		l							Weight: 31 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

8-1-9 oc purlins.

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

bracing.

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

Max Horiz 1=-64 (LC 9)

Max Uplift 1=-17 (LC 29), 3=-15 (LC 28), 4=-2

(LC 13)

Max Grav 1=64 (LC 28), 3=67 (LC 29), 4=632

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-84/259, 2-3=-82/255

BOT CHORD 1-4=-230/133, 3-4=-226/132

WEBS 2-4=-464/153

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.;
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard



October 9,2025

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)

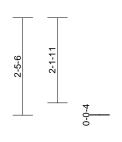


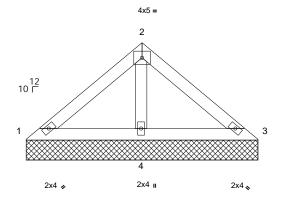
Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VI	Valley	1	1	Job Reference (optional)	176928237

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Page: 1







5-10-0

Scale = 1:29

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-0 oc purlins.

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

bracing.

REACTIONS (size) 1=5-10-0, 3=5-10-0, 4=5-10-0

Max Horiz 1=-45 (LC 9)

1=67 (LC 28), 3=70 (LC 29), 4=394 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-57/136, 2-3=-61/132 1-4=-123/79, 3-4=-120/78 BOT CHORD

WFRS 2-4=-263/78

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .

LOAD CASE(S) Standard



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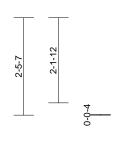


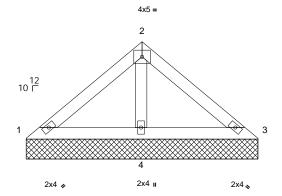
Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	
25090182-01	VJ	Valley	1	1	Job Reference (optional)	176928238

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Page: 1







5-10-0

Scale = 1:29

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-10-0 oc purlins.

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

bracing.

REACTIONS (size) 1=5-10-0, 3=5-10-0, 4=5-10-0

Max Horiz 1=-45 (LC 9) Max Uplift 4=-9 (LC 13)

Max Grav 1=65 (LC 28), 3=67 (LC 29), 4=368

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-55/127, 2-3=-59/123

BOT CHORD 1-4=-118/82, 3-4=-115/81

WEBS 2-4=-243/90

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 . **LOAD CASE(S)** Standard



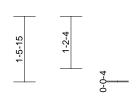


Job	Truss	Truss Type	Qty	Ply	75 Blackberry Manor-Roof-Kristie A RH	176928239	
25090182-01	VK	Valley	1	1	Job Reference (optional)		

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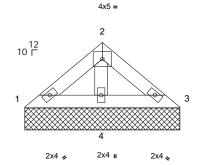
2-0-0

1.15

1 15

YES

IRC2015/TPI2014



3-6-6

Horiz(TL)

Scale = 1:26.2

	DEFL Vert(LL) Vert(TL)	in	(loc)	I/defl	L/d	PLATES	GRIP
0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
0.04	Vert(TL)	n/a	-	n/a	999		

3

n/a n/a

0.00

Weight: 12 lb FT = 20%

BCDL LUMBER

Loading

TCDL

BCLL

TCLL (roof)

Snow (Pf/Pg)

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

(psf)

20.0

10.0

0.0

10.0

13 9/20 0

3-6-6 oc purlins.

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

bracing.

REACTIONS (size) 1=3-6-6, 3=3-6-6, 4=3-6-6 Max Horiz 1=-26 (LC 9)

Max Uplift 3=-2 (LC 14)

Max Grav 1=50 (LC 28), 3=52 (LC 29), 4=192

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-42/49, 2-3=-46/45

BOT CHORD 1-4=-47/37, 3-4=-45/36

WEBS 2-4=-101/25

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

CSI

TC

BC

WB

Matrix-MP

* 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.

0.02

All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard



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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

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: ANSI/TPI1:

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.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 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.