

RE: 2411-0122-F - Stonehaven Rev 2-ELEV. 7-Roof

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track

Lot/Block: Subdivision:

Model: Address:

City: State: NC

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.8

Seal#

173685802 173685803 173685804 173685805 173685806 PB1GE

Wind Code: ASCE 7-16 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Truss Name Date

Wind Speed: 120 mph Floor Load: N/A psf

Roof Load: 40.0 psf

Exposure Category: B Mean Roof Height (feet): 25

No.	Seal#	Truss Name	Date	No.
123456789	173685768 173685769	G1G G1A	5/23/25 5/23/25	35 36 37
3 4	173685770 173685771	G1A G1 D1G D1 C1	5/23/25 5/23/25	38
5 <u>6</u>	173685772 173685773	D1 C1	5/23/25 5/23/25	39
8	173685774	B5 G3	5/23/25 5/23/25	
10	173685772 173685773 173685774 173685775 173685776 173685777 173685778 173685779	B1G B2G B2GB	5/23/25 5/23/25	
11 12 13	173685778 173685779 173685780	B2GR B1GR	5/23/25 5/23/25	
14	173685781 173685782	A1A	5/23/25	
16 17	173685782 173685784	PB1	5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25	
18 19	173685785 173685786	A2A V5	5/23/25 5/23/25 5/23/25	
20 21	173685787 173685788	V4 V3	5/23/25 5/23/25	
18 19 20 21 22 23	173685789 173685790	A2A V5 V4 V3 V2 V1	5/23/25 5/23/25	
25	173685791 173685792	A2B M2 M2GE	5/23/25 5/23/25	
26 27	173685793 173685794	M2GE B5GE G3GE	5/23/25 5/23/25	
28 29	173685795 173685796	G3GE M1GE	5/23/25 5/23/25	
26 27 28 29 30 31 32	173685797 173685798	M1GE M1 C1GE_	5/23/25 5/23/25	
	173685799 173685800	A1AGE A1GE	5/23/25 5/23/25	
34	173685801	A2GE	5/23/25	

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters

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

IMPORTANT NOTE: The seal on these truss component designs is a certificate that the engineer named is licensed in the jurisdiction/s\(\text{identify}\)

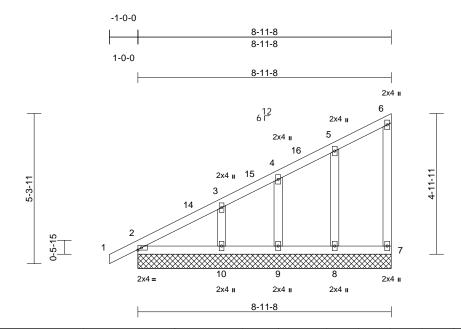
designs comply with ANSI/TP1 4 shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



May 23,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	G1G	Monopitch Supported Gable	1	1	Job Reference (optional)	173685768

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:57 ID:oFploE2LHJjkNjy4f2VEZuzvac5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scal	le	=	1	.4	n	17

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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0			1							Weight: 47 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=8-11-8, 7=8-11-8, 8=8-11-8, 9=8-11-8, 10=8-11-8

Max Horiz 2=120 (LC 15)

Max Uplift 7=-8 (LC 13), 8=-7 (LC 16), 9=-3

(LC 16), 10=-16 (LC 16)

2=170 (LC 2), 7=72 (LC 23), 8=220 Max Grav

(LC 23), 9=169 (LC 23), 10=225

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-3=-296/169, 3-4=-211/130, 4-5=-156/117, 5-6=-83/90, 6-7=-74/70 **BOT CHORD**

2-10=-178/130, 9-10=-68/91, 8-9=-68/91,

7-8=-68/91

WEBS 5-8=-175/140, 4-9=-138/100, 3-10=-187/161

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7, 7 lb uplift at joint 8, 3 lb uplift at joint 9 and 16 lb uplift at joint 10.
- 12) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

Page: 1

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

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

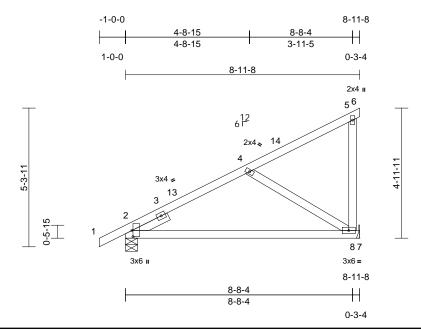
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	G1A	Monopitch	5	1	Job Reference (optional)	173685769

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:57 ID:gfQhoX3XMRWD9GGWQXYEmpzvadM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:44.1

Plate Offsets (X, Y): [2:0-2-13,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.14	8-11	>728	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	8-11	>361	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8-11	>999	240		
BCDL	10.0										Weight: 45 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. 2=0-5-8, 8= Mechanical REACTIONS (size)

Max Horiz 2=105 (LC 16)

Max Uplift 8=-16 (LC 16)

Max Grav 2=417 (LC 2), 8=412 (LC 23) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/45, 2-4=-776/37, 4-5=-89/43, 5-6=-10/0

BOT CHORD 2-8=-151/329, 7-8=0/0 WEBS 5-8=-149/89, 4-8=-385/177

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 8-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025



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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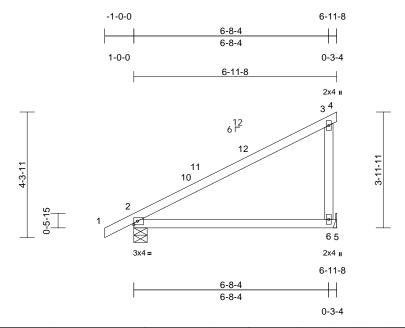


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	G1	Monopitch	5	1	Job Reference (optional)	173685770

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:57 ID:oRE05oQLHflzltZHAq4H_8zvacu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.5

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	0.77	Vert(LL)	-0.09	6-9	>921	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.20	6-9	>410	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.07	6-9	>999	240		
BCDL	10.0	1				l					Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-5-8, 6= Mechanical

Max Horiz 2=84 (LC 16)

Max Uplift 6=-12 (LC 16)

Max Grav 2=332 (LC 23), 6=346 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-3=-224/130, 3-4=-10/0

BOT CHORD 2-6=-193/140, 5-6=0/0

WEBS 3-6=-256/148

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



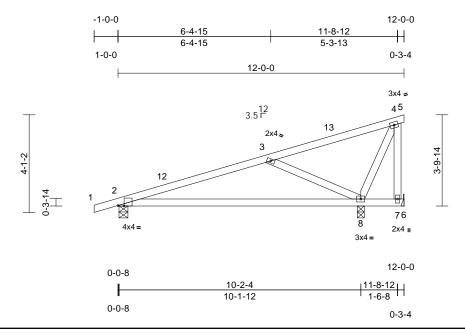
May 23,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	C1	Monopitch	13	1	Job Reference (optional)	3685773

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:55 ID:5KPyFiD4eGkHsw_ojFzyLezeQIC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.3

Plate Offsets (X, Y): [2:0-3-1,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	0.58	Vert(LL)	-0.17	8-11	>716	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.36	8-11	>336	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.17	8-11	>735	240		
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=0-4-8, 7= Mechanical, 8=0-3-8

Max Horiz 2=85 (LC 12)

Max Uplift 2=-66 (LC 12), 7=-276 (LC 2),

8=-126 (LC 12)

Max Grav 2=418 (LC 2), 7=48 (LC 12), 8=894

(LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-475/127, 3-4=-100/205,

4-5=-6/0

BOT CHORD 2-8=-211/448, 7-8=0/0, 6-7=0/0

WEBS 3-8=-676/296, 4-8=-407/141, 4-7=-58/174

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-0-0 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

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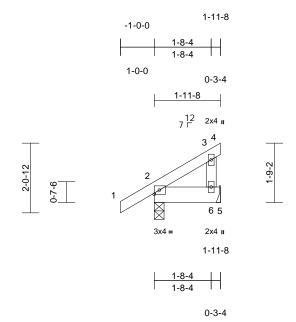
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	B5	Monopitch	12	1	Job Reference (optional)	173685774

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:54 ID: JnN? tmwmuZqv1ZnsKynd7mzqDbN-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the propert Page: 1



Scale = 1:34.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	6-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	6-9	>999	240		
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-11-8 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=34 (LC 16) Max Uplift 5=-5 (LC 16)

Max Grav 2=186 (LC 23), 5=74 (LC 23) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/41, 2-3=-60/56, 3-4=-10/0

BOT CHORD 2-6=-43/29, 5-6=0/0

WEBS 3-6=-65/47

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 5.

LOAD CASE(S) Standard

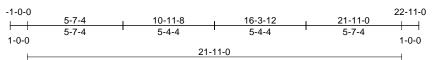


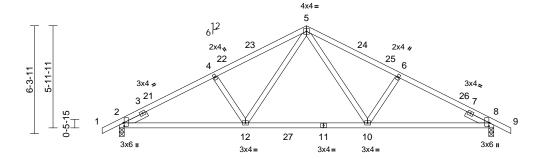
May 23,2025

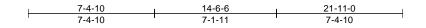


Ī	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
		G3	Common	7	1	Job Reference (optional)	3685775

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:57 ID:SgIS1zjkERzWHX0d2CLeEZzqDRJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:67.4

Plate Offsets (X, Y): [2:0-2-5,0-0-8], [8:0-2-5,0-0-8]

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	0.43	Vert(LL)	-0.11	10-12	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.19	10-12	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	10-12	>999	240		
BCDL	10.0										Weight: 106 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS 2=0-3-8. 8=0-3-8 (size)

Max Horiz 2=-52 (LC 14)

Max Grav 2=992 (LC 3), 8=992 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/42, 2-4=-1658/133, 4-5=-1538/151, 5-6=-1538/151, 6-8=-1658/133, 8-9=0/42

BOT CHORD 2-12=-43/1434, 10-12=0/973, 8-10=-52/1436 WEBS 5-10=-17/590, 6-10=-292/117, 5-12=-17/591,

4-12=-292/117

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-11-8, Exterior(2R) 10-11-8 to 13-11-8, Interior (1) 13-11-8 to 22-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

Page: 1

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

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

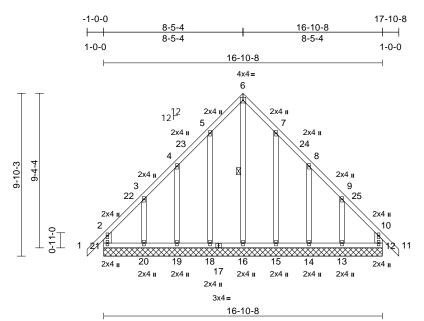
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	B1G	Common Supported Gable	1	1	Job Reference (optional)	173685776

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:53 ID:DOItnopqo9cB92ueN0OIFdzqF3n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:69.8

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 124 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No 2 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt 6-16

REACTIONS (size)

12=16-10-8, 13=16-10-8, 14=16-10-8, 15=16-10-8, 16=16-10-8, 18=16-10-8,

> 19=16-10-8, 20=16-10-8, 21=16-10-8

Max Horiz 21=-169 (LC 14)

Max Uplift 12=-36 (LC 13), 13=-83 (LC 17),

14=-31 (LC 17), 15=-34 (LC 17), 18=-35 (LC 16), 19=-29 (LC 16),

20=-86 (LC 16), 21=-56 (LC 12) Max Grav

12=194 (LC 34), 13=202 (LC 35), 14=160 (LC 2), 15=231 (LC 24),

16=192 (LC 17), 18=231 (LC 23), 19=160 (LC 2), 20=208 (LC 34),

21=210 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-21=-173/53, 1-2=0/71, 2-3=-127/112, 3-4=-94/82, 4-5=-106/183, 5-6=-149/272

6-7=-149/272, 7-8=-105/183, 8-9=-78/82, 9-10=-109/89, 10-11=0/71, 10-12=-159/47

20-21=-77/135, 19-20=-77/135, **BOT CHORD**

18-19=-77/135, 16-18=-77/135, 15-16=-77/135, 14-15=-77/135,

13-14=-77/135, 12-13=-77/135 WEBS 6-16=-314/117, 5-18=-191/102, 4-19=-153/119, 3-20=-168/151,

7-15=-191/102, 8-14=-152/119,

9-13=-168/151

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph: TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-5-4, Corner (3R) 8-5-4 to 11-5-4, Exterior(2N) 11-5-4 to 17-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 6) load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 21, 36 lb uplift at joint 12, 35 lb uplift at joint 18, 29 lb uplift at joint 19, 86 lb uplift at joint 20, 34 lb uplift at joint 15, 31 lb uplift at joint 14 and 83 lb uplift at joint 13.

Page: 1

14) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

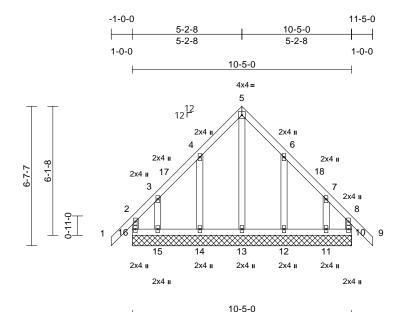
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Stonehaven Rev 2-ELEV. 7-Roof	
	B2G	Common Supported Gable	1	1	Job Reference (optional)	173685777

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:54 ID:OWT15ZxkCY_d_kElWq4KCyzqF3c-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:54.7

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 67 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

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

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

bracing.

REACTIONS (size)

10=10-5-0, 11=10-5-0, 12=10-5-0, 13=10-5-0, 14=10-5-0, 15=10-5-0,

16=10-5-0 Max Horiz 16=-116 (LC 14)

Max Uplift 10=-44 (LC 13), 11=-63 (LC 17),

12=-37 (LC 17), 14=-37 (LC 16), 15=-65 (LC 16), 16=-58 (LC 12)

Max Grav 10=136 (LC 34), 11=135 (LC 35), 12=245 (LC 24), 13=165 (LC 37),

14=245 (LC 23), 15=140 (LC 34),

16=149 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-16=-123/61, 1-2=0/66, 2-3=-82/78, TOP CHORD

3-4=-58/84, 4-5=-103/209, 5-6=-103/210,

6-7=-48/83, 7-8=-69/63, 8-9=0/66,

8-10=-116/61

BOT CHORD 15-16=-58/116, 14-15=-58/116, 13-14=-58/116, 12-13=-58/116,

11-12=-58/116, 10-11=-58/116

WEBS 5-13=-223/47, 4-14=-202/158,

3-15=-132/134, 6-12=-202/157,

7-11=-132/134

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 5-2-8, Corner (3R) 5-2-8 to 8-2-8, Exterior(2N) 8-2-8 to 11-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 16, 44 lb uplift at joint 10, 37 lb uplift at joint 14, 65 lb uplift at joint 15, 37 lb uplift at joint 12 and 63 lb uplift at joint 11.

LOAD CASE(S) Standard



May 23,2025

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

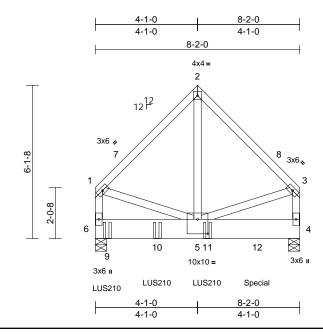
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Ply Job Truss Truss Type Qty Stonehaven Rev 2-FLFV 7-Roof 173685778 B2GR Common Girder 2 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:54 ID:YLBnv?OV46uBgXWWjBhAF2zqF?9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:46

Plate Offsets (X, Y): [5:0-5-0,0-7-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	5	>999	240		
BCDL	10.0										Weight: 145 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x10 SP DSS **WEBS** 2x4 SP No.3

BRACING

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

bracing.

REACTIONS (size) 4=0-5-8, 6=0-5-8

Max Horiz 6=63 (LC 9)

Max Grav 4=3090 (LC 25), 6=4111 (LC 26) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD

1-2=-2002/0, 2-3=-2002/0, 3-4=-2027/0, 1-6=-2027/0

BOT CHORD 5-6=-63/63, 4-5=0/0 2-5=0/2528, 3-5=0/1495, 1-5=0/1495

WFBS NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - Bottom chords connected as follows: 2x10 3 rows staggered at 0-7-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Use Simpson Strong-Tie LUS210 (8-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-4 from the left end to 5-7-4 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1653 lb down at 7-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 4-6=-20

Concentrated Loads (lb)

Vert: 9=-1279 (B), 10=-1272 (B), 11=-1272 (B), 12=-1272 (B)



May 23,2025



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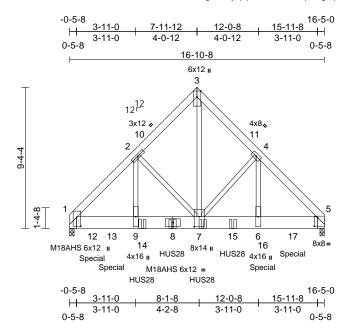
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 Qtv Ply Stonehaven Rev 2-FLFV 7-Roof 173685779 B1GR Common Girder 2 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:53 ID:LdwTsZ9eaZ6TXosg7EhxbjzqEpr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:76.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.06	7-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.13	7-9	>999	240	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.00	7	>999	240		
BCDL	10.0										Weight: 328 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP DSS BOT CHORD 2x10 SP DSS

WEBS 2x4 SP No.3 *Except* 1-1,5-5:2x6 SP No.2,

7-3:2x4 SP SS BRACING

TOP CHORD

Structural wood sheathing directly applied or

5-5-6 oc purlins.

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

bracing

REACTIONS 1=0-3-8, 5=0-3-8 (size)

Max Horiz 1=-131 (LC 10)

Max Grav 1=10866 (LC 21), 5=9893 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-10879/0, 2-3=-7657/0, 3-4=-7898/0,

4-5=-10438/0

BOT CHORD

1-9=0/8016, 7-9=0/7728, 6-7=0/7360 5-6=0/7577

WEBS 3-7=0/10600, 2-7=-3361/0, 2-9=0/4593,

4-7=-2742/0, 4-6=0/3732

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x10 2 rows staggered at 0-4-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) this design.

- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; 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=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Use Simpson Strong-Tie HUS28 (22-10d Girder, 8-10d Truss) or equivalent spaced at 2-0-0 oc max, starting at 4-9-12 from the left end to 10-9-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2036 lb down at 1-6-4, 2524 lb down at 2-9-12, and 2524 lb down at 12-9-12, and 2524 lb down at 14-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-51, 3-5=-51, 1-5=-20 Concentrated Loads (lb)

Vert: 8=-2234 (B), 7=-2234 (B), 12=-1843 (B), 13=-2234 (B), 14=-2234 (B), 15=-2234 (B), 16=-2234 (B), 17=-2234 (B)

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May 23,2025

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

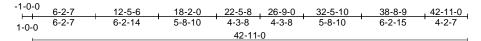
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

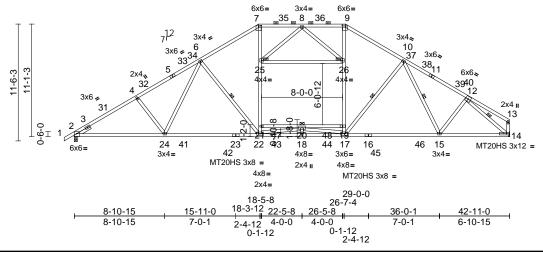


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A1B	Attic	7	1	Job Reference (optional)	173685780

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:48 ID:fSjG7qIATs2aNwZYVS_NigzqEup-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:113.6

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

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	0.73	Vert(LL)	-0.39	22-24	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.69	22-24	>737	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.17	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.12	22-24	>999	240		
BCDL	10.0										Weight: 296 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5:2x4 SP SS BOT CHORD 2x4 SP SS *Except* 21-19:2x4 SP No.2 **WEBS**

2x4 SP No.3 *Except* 7-22,9-17:2x4 SP SS, 25-26:2x4 SP No.2

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(3-3-12 max.): 7-9.

BOT CHORD Rigid ceiling directly applied.

WEBS 6-22, 10-17, 10-15, 12-14 1 Row at midpt JOINTS

1 Brace at Jt(s): 25,

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

Max Horiz 2=175 (LC 13)

Max Grav 2=2526 (LC 58), 14=2544 (LC 60)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=0/47, 2-4=-4452/0, 4-6=-4309/0,

6-7=-3544/0, 7-8=-3040/0, 8-9=-2915/0,

9-10=-3459/0, 10-12=-3635/0,

12-13=-212/17, 13-14=-193/19

BOT CHORD 2-24=0/3762, 22-24=0/3393, 18-22=0/3689,

17-18=0/3689, 15-17=0/3075, 14-15=0/2708, 20-21=-232/250, 19-20=-25/503

WEBS 21-22=0/1284, 21-25=0/1444, 7-25=0/1450,

17-19=0/1108, 19-26=0/1272, 9-26=0/1383, 25-26=-29/270, 18-20=-37/99,

8-25=-263/126, 8-26=-395/81, 20-22=-1169/0. 17-20=-1393/0.

6-22=-841/90, 10-17=-452/151, 6-24=0/555, 4-24=-231/110, 10-15=-190/2, 12-15=0/548,

12-14=-3557/0

NOTES

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-3-8, Interior (1) 3-3-8 to 18-2-0, Exterior(2R) 18-2-0 to 24-2-13. Interior (1) 24-2-13 to 26-9-0. Exterior(2R) 26-9-0 to 32-9-13. Interior (1) 32-9-13 to 42-9-4 zone; cantilever left and right exposed: end vertical left exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 250.0lb AC unit load placed on the bottom chord, 22-5-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding All plates are MT20 plates unless otherwise indicated.
- 9) Plates checked for a plus or minus 5 degree rotation
- about its center
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 20-21,
- Refer to girder(s) for truss to truss connections.

14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Page: 1

- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



May 23,2025

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

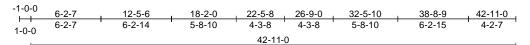
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

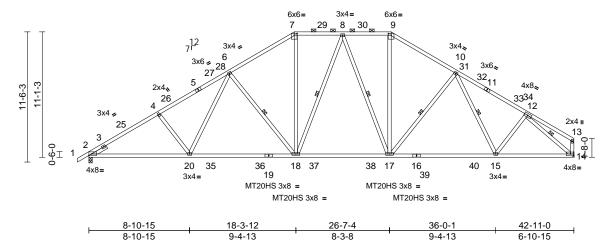


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A1A	Piggyback Base	1	1	Job Reference (optional)	173685781

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:47 ID:nJeJhLUeOzOg8_20E1kMgKzqEtH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:101.9

Plate Offsets (X, Y): [2:Edge,0-1-12], [7:0-3-0,0-1-12], [9:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.35	18-20	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.58	18-20	>882	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.13	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	18-20	>999	240		
BCDL	10.0										Weight: 278 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP SS

WEBS 2x4 SP No.3 *Except* 14-13:2x4 SP No.2

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

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(3-9-15 max.): 7-9.

BOT CHORD Rigid ceiling directly applied.

WEBS 8-18, 8-17, 12-14, 10-17, 1 Row at midpt

10-15, 6-18

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

Max Horiz 2=175 (LC 13)

Max Grav 2=2094 (LC 57), 14=2056 (LC 59)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/47, 2-4=-3655/0, 4-6=-3522/0,

6-7=-2698/65, 7-8=-2248/88, 8-9=-2169/86,

9-10=-2604/69, 10-12=-2935/7, 12-13=-184/34, 13-14=-175/30

BOT CHORD 2-20=0/3088, 18-20=0/2678, 17-18=0/2144,

15-17=0/2399, 14-15=0/2200

WEBS 7-18=0/1003, 8-18=-224/160, 8-17=-359/98,

9-17=0/953, 4-20=-260/93, 6-20=0/599,

12-15=0/388, 12-14=-2887/0, 10-17=-542/94,

10-15=-47/151, 6-18=-853/76

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-3-8, Interior (1) 3-3-8 to 18-2-0, Exterior(2R) 18-2-0 to 24-2-13. Interior (1) 24-2-13 to 26-9-0, Exterior(2R) 26-9-0 to 32-9-13, Interior (1) 32-9-13 to 42-9-4 zone; cantilever left and right exposed: end vertical left exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Refer to girder(s) for truss to truss connections.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 23,2025

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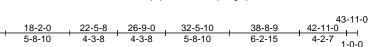


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A1	Piggyback Base	5	1	Job Reference (optional)	173685782

42-11-0

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:45 ID:65IoG2Q0i7YzKaH8cect94zqEqn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



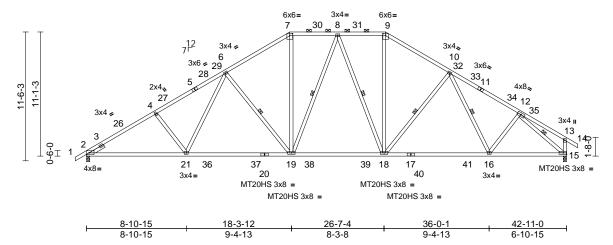


Plate Offsets (X, Y): [2:Edge,0-1-12], [7:0-3-0,0-1-12], [9:0-3-0,0-1-12]

-1-0-0

 \rightarrow

1-0-0

6-2-7

6-2-14

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.35	19-21	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.58	19-21	>882	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.13	15	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	19-21	>999	240		
BCDL	10.0										Weight: 280 lb	FT = 20%

LUMBER

Scale = 1:103

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

WEBS 2x4 SP No.3 *Except* 15-13:2x4 SP No.2

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

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(3-10-0 max.): 7-9.

BOT CHORD Rigid ceiling directly applied.

WEBS 6-19, 8-19, 8-18, 10-18, 1 Row at midpt

10-16, 12-15

REACTIONS (size) 2=0-3-8, 15=0-3-8 Max Horiz 2=195 (LC 15)

Max Grav 2=2093 (LC 57), 15=2110 (LC 59)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/47, 2-4=-3653/0, 4-6=-3520/0,

6-7=-2697/63, 7-8=-2248/86, 8-9=-2168/89,

9-10=-2604/66, 10-12=-2933/0,

12-13=-204/54, 13-14=0/47, 13-15=-243/64 **BOT CHORD** 2-21=0/3107, 19-21=0/2698, 18-19=0/2163,

16-18=0/2416, 15-16=0/2208

WEBS 4-21=-260/93, 6-21=0/599, 6-19=-853/76, 7-19=0/1003, 8-19=-223/165, 8-18=-360/98,

9-18=0/954, 10-18=-541/94, 10-16=-52/149,

12-16=0/390, 12-15=-2887/0

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-3-8, Interior (1) 3-3-8 to 18-2-0, Exterior(2R) 18-2-0 to 24-2-13, Interior (1) 24-2-13 to 26-9-0, Exterior(2R) 26-9-0 to 32-9-13, Interior (1) 32-9-13 to 43-11-0 zone; cantilever left and right exposed: end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 23,2025

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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	PB1	Piggyback	13	1	Job Reference (optional)	173685783

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:59 ID:MKKddZpziAWe4ZaX5uMg_ezqF1B-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

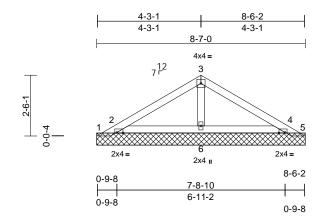


Plate Offsets (X, Y): [2:0-3-1,Edge], [4:0-3-1,Edge]

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 1=8-7-0, 2=8-7-0, 4=8-7-0, 5=8-7-0, 6=8-7-0

Max Horiz 1=37 (LC 15)

1=-181 (LC 23), 2=-20 (LC 16), Max Uplift

4=-22 (LC 17), 5=-178 (LC 24) Max Grav

1=27 (LC 16), 2=455 (LC 23), 4=441 (LC 24), 5=19 (LC 17),

6=208 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-42/123, 2-3=-105/74, 3-4=-105/73, TOP CHORD

4-5=-31/116

BOT CHORD 2-6=-68/38, 4-6=-68/38

WEBS 3-6=-112/22

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-3-8, Exterior(2R) 4-3-8 to 7-3-8, Interior (1) 7-3-8 to 8-3-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2, 22 lb uplift at joint 4, 181 lb uplift at joint 1, 178 lb uplift at joint 5, 20 lb uplift at joint 2 and 22 lb uplift at joint 4.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 23,2025

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

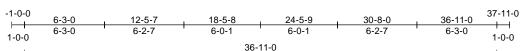
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	Stonehaven Rev 2-ELEV. 7-Roof	
	A2	Common	5	1	Job Reference (optional)	173685784

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:51 ID:uyLX7fQKwXpY4EP81OGP?AzqF0P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



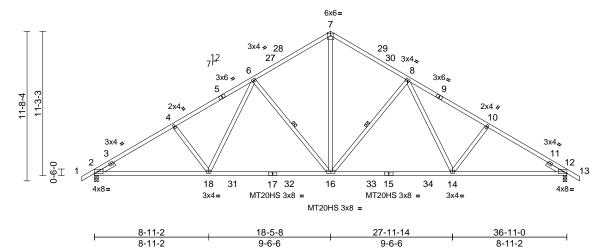


Plate Offsets (X, Y): [2:Edge,0-1-12], [12:0-0-0,0-0-0], [12:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.30	16-18	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.52	16-18	>848	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.11	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	14-16	>999	240		
BCDL	10.0										Weight: 207 lb	FT = 20%

LUMBER

Scale = 1:90

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 17-15:2x4 SP SS **BOT CHORD**

WEBS 2x4 SP No.3

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

BRACING TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **WEBS** 8-16, 6-16 1 Row at midpt

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

Max Horiz 2=-182 (LC 14) Max Grav 2=1744 (LC 34), 12=1744 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-4=-2969/78, 4-6=-2816/105,

6-7=-2015/150, 7-8=-2015/150,

8-10=-2816/105, 10-12=-2969/78

12-13=0/47

BOT CHORD 2-18=0/2484, 16-18=0/2035, 14-16=0/2035,

12-14=0/2486

7-16=-48/1601, 8-16=-757/112, 8-14=0/642,

10-14=-299/103, 6-16=-757/112, 6-18=0/642,

4-18=-299/103

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-8-5, Interior (1) 2-8-5 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 37-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

Page: 1



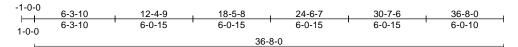
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A2A	Common	4	1	Job Reference (optional)	173685785

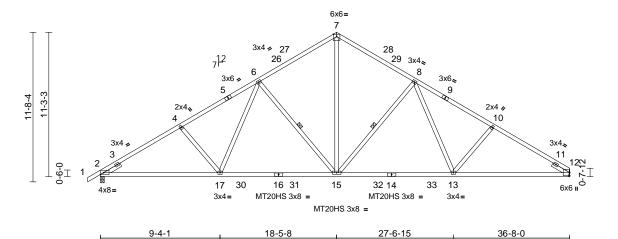
Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:51 ID:qtX8gzsvSbMROm938yvrTmzqF?r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-1-7

9-1-1





Scale = 1:90

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.28	13-15	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.47	13-15	>928	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.11	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	13-15	>999	240		
BCDL	10.0										Weight: 205 lb	FT = 20%

9-1-7

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 16-14:2x4 SP SS **BOT CHORD**

WEBS 2x4 SP No.3

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **WEBS** 8-15, 6-15 1 Row at midpt

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

Max Horiz 2=178 (LC 13)

Max Grav 2=1737 (LC 34), 12=1673 (LC 35)

9-4-1

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-4=-2941/81, 4-6=-2769/103,

6-7=-1998/151, 7-8=-1998/151,

8-10=-2745/106, 10-12=-2913/85 **BOT CHORD** 2-17=-15/2459, 15-17=0/2028, 13-15=0/2020,

12-13=-91/2426

WEBS 7-15=-47/1576, 8-15=-756/107, 8-13=0/593,

10-13=-284/102, 6-15=-769/107, 6-17=0/622,

4-17=-305/100

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-8-0, Interior (1) 2-8-0 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-8, Interior (1) 22-1-8 to 36-8-0 zone: cantilever left and right exposed : end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) This truss design requires that a minimum of 7/16 structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

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

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

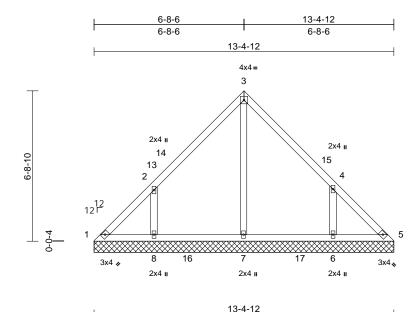
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	V5	Valley	1	1	Job Reference (optional)	173685786

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:01:01 ID: iUYEzqG6X1j9ZU3iPDXu6xzqF1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0	l		1							Weight: 62 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=13-4-12, 5=13-4-12, 6=13-4-12, 7=13-4-12, 8=13-4-12

Max Horiz 1=104 (LC 15)

Max Uplift 1=-20 (LC 12), 6=-71 (LC 17),

8=-74 (LC 16)

Max Grav 1=118 (LC 34), 5=103 (LC 33),

6=397 (LC 34), 7=359 (LC 33),

8=400 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-134/101, 2-3=-172/132, 3-4=-171/133, 4-5=-119/72

BOT CHORD

1-8=-41/120, 7-8=-41/120, 6-7=-41/120,

5-6=-41/120 WEBS

3-7=-169/0. 2-8=-306/271. 4-6=-303/264

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 6-8-10, Corner (3R) 6-8-10 to 9-8-10, Exterior(2N) 9-8-10 to 13-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1, 74 lb uplift at joint 8 and 71 lb uplift at joint 6.

LOAD CASE(S) Standard



May 23,2025

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

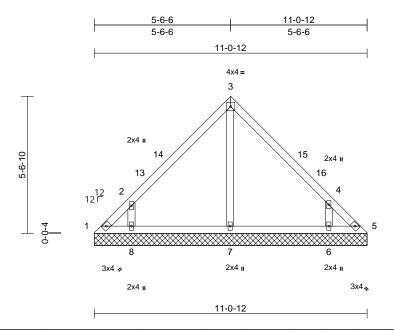
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	V4	Valley	1	1	Job Reference (optional)	173685787

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:01:00 ID:WNO4f37C7fLjkojaGQrJAczqF24-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=11-0-12, 5=11-0-12, 6=11-0-12, 7=11-0-12, 8=11-0-12

Max Horiz 1=86 (LC 13)

Max Uplift 1=-42 (LC 14), 5=-17 (LC 15),

6=-65 (LC 17), 8=-69 (LC 16)

1=72 (LC 13), 5=55 (LC 33), 6=362 Max Grav (LC 23), 7=214 (LC 2), 8=366 (LC

221

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-163/92, 2-3=-195/133, 3-4=-195/131,

4-5=-148/64

1-8=-34/98, 7-8=-20/90, 6-7=-20/90,

5-6=-31/90 WEBS

3-7=-126/0. 2-8=-351/349. 4-6=-342/338

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 5-6-10, Corner (3R) 5-6-10 to 8-6-10, Exterior(2N) 8-6-10 to 11-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 17 lb uplift at joint 5, 69 lb uplift at joint 8 and 65 lb uplift at joint 6.

LOAD CASE(S) Standard



May 23,2025

Page: 1

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

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

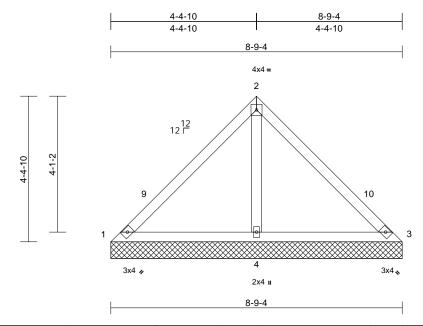
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	V3	Valley	2	1	Job Reference (optional)	173685788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:01:00 ID:pRnIZe?xUa48XGyfgJfzmVzqF2E-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:34.7

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

8-9-4 oc purlins.

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

bracing.

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

Max Horiz 1=67 (LC 15)

Max Uplift 1=-39 (LC 23), 3=-39 (LC 22),

4=-14 (LC 16)

1=56 (LC 39), 3=56 (LC 40), 4=671 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-161/309, 2-3=-150/309 BOT CHORD

1-4=-231/211, 3-4=-231/211 2-4=-593/286

WFBS NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-4-10, Exterior(2R) 4-4-10 to 7-4-10, Interior (1) 7-4-10 to 8-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation 6) about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1, 39 lb uplift at joint 3 and 14 lb uplift at joint 4.

LOAD CASE(S) Standard



May 23,2025



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

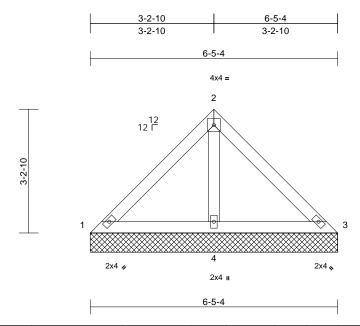
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	V2	Valley	2	1	Job Reference (optional)	173685789

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:01:00 ID:2qBZcf5GNEVwQa83DMI8hUzqF3Q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-5-4 oc purlins.

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

bracing.

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

Max Horiz 1=48 (LC 13)

1=68 (LC 22), 3=68 (LC 23), 4=427 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-95/165, 2-3=-75/165 1-4=-130/134, 3-4=-130/134 **BOT CHORD**

2-4=-348/191 WFRS

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.

- Plates checked for a plus or minus 5 degree rotation
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard

OR

May 23,2025



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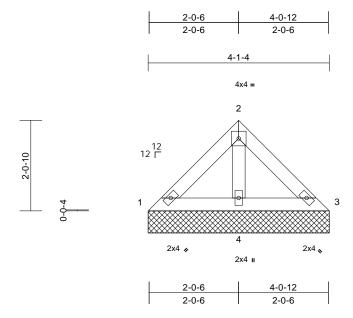
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Stonehaven Rev 2-ELEV. 7-Roof	
	V1	Valley	2	1	Job Reference (optional)	173685790

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:01:00 ID:hsOgZy17YhteJpG5Qoiz_QzqF3V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-0-12 oc purlins.

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

bracing.

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

Max Horiz 1=-30 (LC 12)

1=68 (LC 22), 3=68 (LC 23), 4=232 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/65, 2-3=-60/65 **BOT CHORD** 1-4=-54/72, 3-4=-54/72

WFRS 2-4=-152/79

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.

- Plates checked for a plus or minus 5 degree rotation
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 23,2025

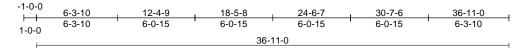




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A2B	Common	1	1	Job Reference (optional)	173685791

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:51 ID:qtX8gzsvSbMROm938yvrTmzqF?r-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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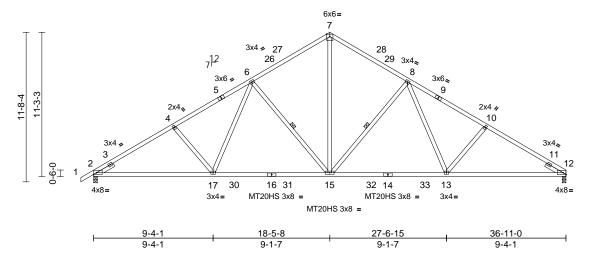


Plate Offsets (X, Y): [2:Edge,0-1-12], [12:Edge,0-1-12]

									-		1	•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.27	15-17	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.46	15-17	>957	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.11	12	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	13-15	>999	240		
BCDL	10.0	1									Weight: 205 lb	FT = 20%

LUMBER

Scale = 1:90

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 16-14:2x4 SP SS **BOT CHORD**

WEBS 2x4 SP No.3

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

BRACING TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **WEBS** 8-15, 6-15 1 Row at midpt

REACTIONS (size) 2=0-3-8, 12=0-3-8 Max Horiz 2=178 (LC 15)

Max Grav 2=1742 (LC 34), 12=1678 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-4=-2951/81, 4-6=-2779/103,

6-7=-2007/151, 7-8=-2007/151,

8-10=-2783/106, 10-12=-2956/86 **BOT CHORD** 2-17=-14/2466, 15-17=0/2036, 13-15=0/2037,

12-13=-12/2472

WEBS

7-15=-47/1584, 8-15=-771/107, 8-13=0/627, 10-13=-309/103, 6-15=-769/107, 6-17=0/623,

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-8-0, Interior (1) 2-8-0 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-8, Interior (1) 22-1-8 to 36-9-4 zone: cantilever left and right exposed : end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



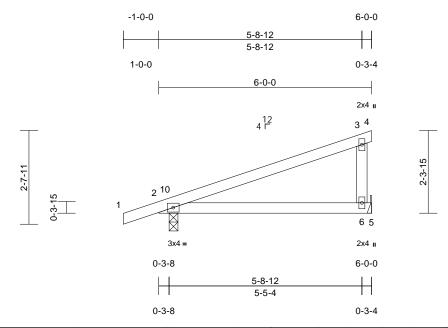
May 23,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	M2	Monopitch	8	1	Job Reference (optional)	173685792

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:59 ID:NIBDA6gCv6tty_ucXHEuKazqQdm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.5

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	0.53	Vert(LL)	-0.06	6-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.12	6-9	>573	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	6-9	>870	240		
BCDL	10.0										Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 6= Mechanical

Max Horiz 2=54 (LC 12)

Max Uplift 2=-51 (LC 12), 6=-40 (LC 12) Max Grav 2=318 (LC 23), 6=292 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-3=-133/48, 3-4=-6/0

BOT CHORD 2-6=-86/118, 5-6=0/0

WEBS 3-6=-207/134

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025



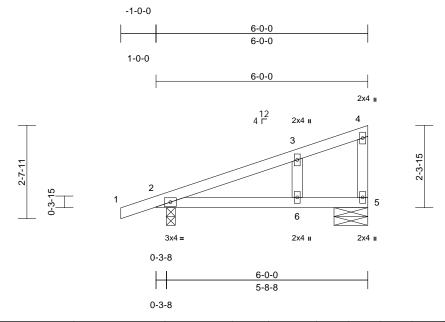




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	M2GE	Monopitch Structural Gable	1	1	Job Reference (optional)	173685793

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:59 ID:80j5_TAY009w_R6h_6_k0QzqQd6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:32.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.09	6-9	>794	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.16	6-9	>453	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.10	6-9	>715	240		
BCDL	10.0			1							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 5=0-11-8

Max Horiz 2=53 (LC 12)

Max Uplift 2=-52 (LC 12), 5=-42 (LC 12)

Max Grav 2=331 (LC 23), 5=272 (LC 23) (lb) - Maximum Compression/Maximum

Tension

1-2=0/26, 2-3=-148/46, 3-4=-38/44, TOP CHORD

4-5=-152/99

BOT CHORD 2-6=-87/122, 5-6=0/0

WEBS 3-6=-85/51

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-10-4 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 5 and 52 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

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

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

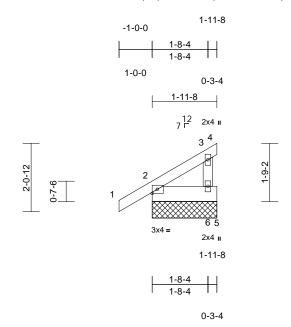
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	B5GE	Monopitch Supported Gable	3	1	Job Reference (optional)	173685794

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:54 ID: YEuzB1qIn6q13LAKsGelo4zqDbV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:34.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

1-11-8 oc purlins.

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

bracing.

2=1-11-8, 6=1-11-8 REACTIONS (size)

Max Horiz 2=34 (LC 16)

Max Grav 2=174 (LC 23), 6=97 (LC 23) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/41, 2-3=-92/59, 3-4=-10/0

BOT CHORD 2-6=-43/28, 5-6=0/0

WEBS 3-6=-64/78

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- Plates checked for a plus or minus 5 degree rotation
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard



May 23,2025

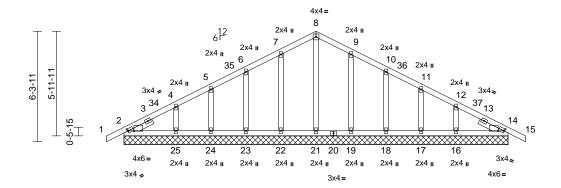


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	G3GE	Common Supported Gable	1	1	Job Reference (optional)	173685795

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Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:58 ID:kCdqowB7bwQm?nfATzYKSIzqDS?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:65.8

Plate Offsets (X, Y): [2:0-0-9,0-1-8], [2:0-3-14,0-0-5], [14:0-0-9,0-1-8], [14:0-3-14,0-0-5]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 120 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=21-11-0 14=21-11-0 16=21-11-0, 17=21-11-0, 18=21-11-0, 19=21-11-0,

> 21=21-11-0. 22=21-11-0. 23=21-11-0, 24=21-11-0,

25=21-11-0 Max Horiz 2=52 (LC 15)

Max Uplift 16=-12 (LC 17), 17=-4 (LC 17),

18=-8 (LC 17), 19=-5 (LC 17), 22=-6 (LC 16), 23=-8 (LC 16),

24=-4 (LC 16), 25=-14 (LC 16) Max Grav 2=182 (LC 2), 14=182 (LC 2),

16=222 (LC 41), 17=139 (LC 2) 18=191 (LC 24), 19=209 (LC 24),

21=135 (LC 37), 22=209 (LC 23), 23=191 (LC 23), 24=139 (LC 2),

25=222 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/36, 2-4=-85/39, 4-5=-65/37

5-6=-58/53, 6-7=-69/81, 7-8=-80/107 8-9=-80/110, 9-10=-69/85, 10-11=-58/56

11-12=-54/30, 12-14=-77/22, 14-15=0/36 **BOT CHORD** 2-25=-24/60, 24-25=-24/60, 23-24=-24/60, 22-23=-24/60, 21-22=-24/60, 19-21=-24/60,

18-19=-24/60, 17-18=-24/60, 16-17=-24/60,

14-16=-24/60

WEBS

8-21=-94/8, 7-22=-170/53, 6-23=-148/48, 5-24=-111/35, 4-25=-161/44, 9-19=-170/53, 10-18=-148/48, 11-17=-111/35, 12-16=-161/44

21-11-0

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph: TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-11-8, Exterior(2R) 10-11-8 to 14-11-8, Interior (1) 14-11-8 to 22-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Page: 1

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 22, 8 lb uplift at joint 23, 4 lb uplift at joint 24, 14 lb uplift at joint 25, 5 lb uplift at joint 19, 8 lb uplift at joint 18, 4 lb uplift at joint 17 and 12 lb uplift at joint 16.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025



TOP CHORD

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

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

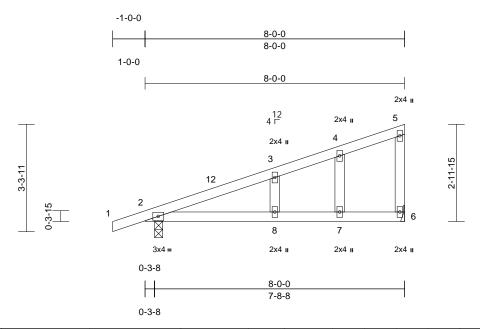
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	M1GE	Monopitch Structural Gable	1	1	Job Reference (optional)	173685796

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:58 ID:67yhlloCQk1Ol2t?8VmFiazeRG1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	_	_	1	. 2	5	F

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.22	8	>433	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.39	8	>241	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.25	8	>376	240		
BCDL	10.0			1							Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 2=0-3-0, 6= Mechanical

Max Horiz 2=68 (LC 12)

Max Uplift 2=-62 (LC 12), 6=-58 (LC 12)

Max Grav 2=381 (LC 23), 6=360 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/26, 2-3=-201/73, 3-4=-65/38,

4-5=-47/58, 5-6=-198/126

BOT CHORD 2-8=-135/170, 7-8=0/0, 6-7=0/0

WEBS 4-7=-59/37, 3-8=-74/46

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7-10-4 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

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

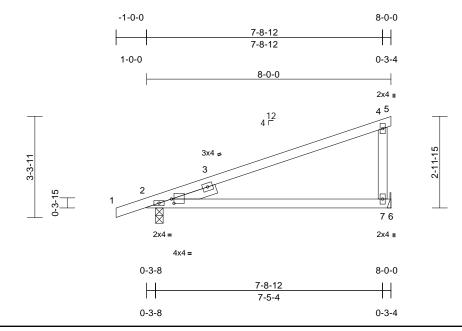
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	M1	Monopitch	5	1	Job Reference (optional)	173685797

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:58 ID:D4Blu6Y1NHNMHpmzQbuKL9zeRGM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.15	7-12	>608	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.30	7-12	>314	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.20	7-12	>474	240		
BCDL	10.0										Weight: 32 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

2=0-3-0, 7= Mechanical Max Horiz 2=68 (LC 12)

Max Uplift 2=-64 (LC 12), 7=-52 (LC 12)

Max Grav 2=398 (LC 23), 7=360 (LC 23)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-4=-402/152, 4-5=-6/0

BOT CHORD 2-7=0/0, 6-7=0/0 WEBS 4-7=-258/163

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 1-8-13, Interior (1) 1-8-13 to 8-0-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

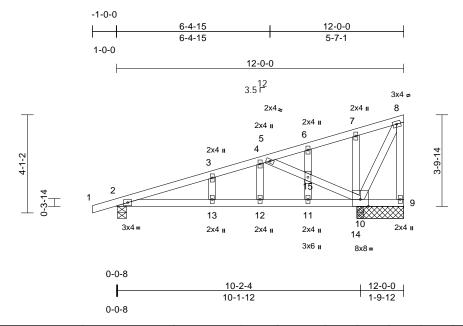


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	C1GE	Monopitch Structural Gable	3	1	Job Reference (optional)	173685798

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Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:55 ID:3Erhr_uzDfd5q6BNuEZcL5zeJyX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.05	13-18	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.11	13-18	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	13-18	>999	240		
BCDL	10.0										Weight: 65 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 2=0-4-8, 9=1-11-8, 10=0-3-8

Max Horiz 2=85 (LC 12)

Max Uplift 2=-65 (LC 12), 9=-268 (LC 2),

10=-125 (LC 12)

Max Grav 2=416 (LC 2), 9=46 (LC 12),

10=908 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23 2-3=-517/233 3-4=-488/257 4-5=-402/221, 5-6=-180/174, 6-7=-167/206,

7-8=-127/187. 8-9=-162/272

BOT CHORD 2-13=-369/474, 12-13=-369/474,

11-12=-369/474, 10-11=-369/474, 9-10=-3/2

WEBS 5-15=-704/520, 14-15=-714/527 10-14=-779/567, 8-10=-395/246,

7-14=-189/119, 6-15=-44/31, 11-15=-25/56,

4-12=-131/187, 3-13=-79/58

NOTES

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 11-10-4 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint
- 11) N/A
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

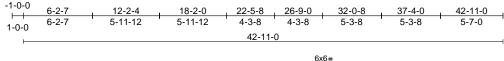
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

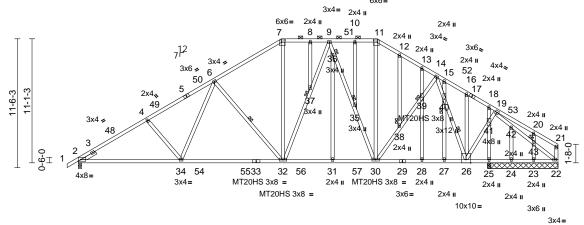
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:47 ID:hh?VwEh_IZQ36MBV_zkam_zqEX4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:103.1 Plate Offsets (X, Y): [2:Edge,0-1-12], [7:0-4-0,0-2-4], [11:0-4-0,0-2-4]

-		ı	-	1	-		-		-		i	•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.28	32-34	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.46	32-34	>955	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.08	22	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	32-34	>999	240		
BCDL	10.0			1							Weight: 366 lb	FT = 20%

18-3-12

9-1-7

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD

2x4 SP SS *Except* 29-22:2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except* 26-19:2x4 SP No.2

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

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

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (4-3-13 max.): 7-11.

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt 6-32, 26-40

JOINTS 1 Brace at Jt(s): 35, 36, 37, 38, 39, 40,

REACTIONS (size) 2=0-3-8, 22=6-3-8, 23=6-3-8,

24=6-3-8, 25=0-3-8 Max Horiz 2=175 (LC 13) Max Uplift 23=-18 (LC 17)

2=1808 (LC 57), 22=135 (LC 65), Max Grav 23=353 (LC 35), 24=112 (LC 67),

25=1755 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/47, 2-4=-3056/0, 4-6=-2909/0, 6-7=-2081/75, 7-8=-1711/99, 8-9=-1711/99, 9-10=-1378/104, 10-11=-1378/104,

11-12=-1567/95, 12-13=-1613/78, 13-14=-1671/51, 14-15=-660/82, 15-16=-835/68, 16-18=-942/45,

18-19=-395/35, 19-20=-113/70, 20-21=-1/61 BOT CHORD 2-34=0/2579, 32-34=0/2182, 31-32=0/1499,

30-31=0/1499. 28-30=0/1089. 27-28=0/1089. 26-27=0/1089, 25-26=0/137, 24-25=0/137,

23-24=0/137, 22-23=0/137

WEBS

9-2-5

4-34=-268/87, 6-34=0/602, 6-32=-877/70, 7-32=0/680, 32-37=-28/415, 9-37=-22/424, 9-36=-555/56, 35-36=-658/29, 30-35=-616/37, 11-30=0/477, 30-38=-29/442, 38-39=-22/437, 14-39=-22/483, 14-40=-1359/0. 26-40=-1307/0.

26-7-4

8-3-8

26-41=0/1216, 19-41=0/791, 21-22=-5/25 19-42=-234/0. 42-43=-150/0. 22-43=-180/0. 10-35=0/60, 31-36=0/143, 8-37=-20/2, 12-38=-48/17, 13-39=-22/63, 28-39=-11/103,

15-40=-10/217, 27-40=-9/166, 16-26=-1/125, 18-41=-1138/5, 25-41=-1645/0,

24-42=-155/0, 20-43=-332/61, 23-43=-264/61

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 3-3-6, Interior (1) 3-3-6 to 18-2-0, Exterior(2R) 18-2-0 to 24-2-10, Interior (1) 24-2-10 to 26-9-0, Exterior(2R) 26-9-0 to 32-9-0, Interior (1) 32-9-0 to 42-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

Page: 1

- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 10) Gable studs spaced at 2-0-0 oc.

36-9-4

2-1-0

6-1-12

34-8-4

8-1-0

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13)
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 23,2025

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A1AGE	Piggyback Base Structural Gable	1	1	Job Reference (optional)	173685799

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:47 $ID: hh? VwEh_IZQ36MBV_zkam_zqEX4-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? figure for the property of the$

Page: 2

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

LOAD CASE(S) Standard



May 23,2025

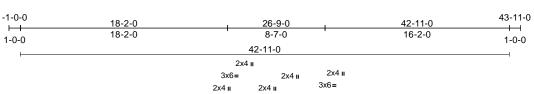


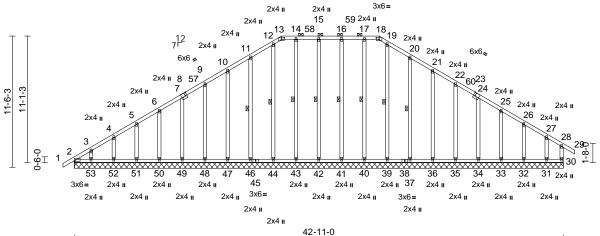
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qtv Ply Stonehaven Rev 2-FLFV 7-Roof 173685800 A1GE Piggyback Base Supported Gable Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:49 ID:ttEqrPbgxeFBwnC4262SFrzqF1T-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:101.1

Plate Offsets (X, Y): [8:0-1-12,Edge], [13:0-3-0,0-1-12], [18:0-3-0,0-1-12], [23:0-1-12,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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	30	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 349 lb	FT = 20%

LUMBER
TOP CHORE
DOT OUGE

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

2x4 SP No 2

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

(6-0-0 max.): 13-18.

BOT CHORD Rigid ceiling directly applied.

WEBS 15-42, 14-43, 12-44, 1 Row at midpt 11-46, 16-41, 17-40,

19-39, 20-37 2=42-11-0, 30=42-11-0 **REACTIONS** (size) 31=42-11-0, 32=42-11-0, 33=42-11-0, 34=42-11-0, 35=42-11-0, 36=42-11-0,

37=42-11-0, 39=42-11-0, 40=42-11-0, 41=42-11-0, 42=42-11-0, 43=42-11-0, 44=42-11-0, 46=42-11-0, 47=42-11-0, 48=42-11-0,

49=42-11-0, 50=42-11-0, 51=42-11-0, 52=42-11-0, 53=42-11-0

Max Horiz 2=194 (LC 15) Max Uplift 2=-78 (LC 12), 30=-6 (LC 13),

31=-72 (LC 17), 32=-1 (LC 17) 33=-13 (LC 17), 34=-10 (LC 17), 35=-11 (LC 17), 36=-9 (LC 17), 37=-21 (LC 17), 41=-1 (LC 12), 42=-2 (LC 12), 46=-19 (LC 16), 47=-9 (LC 16), 48=-10 (LC 16), 49=-10 (LC 16), 50=-10 (LC 16), 51=-11 (LC 16), 52=-8 (LC 16), 53=-26 (LC 16)

Max Grav 2=172 (LC 35), 30=144 (LC 22), 31=143 (LC 35), 32=169 (LC 2), 33=180 (LC 45), 34=225 (LC 45), 35=220 (LC 45), 36=220 (LC 45), 37=226 (LC 45), 39=195 (LC 45), 40=215 (LC 44), 41=223 (LC 44), 42=223 (LC 44), 43=215 (LC 44), 44=195 (LC 45), 46=226 (LC 45), 47=220 (LC 45), 48=220 (LC 45), 49=225 (LC 45), 50=182 (LC 45), 51=159 (LC 34), 52=167 (LC 64),

53=146 (LC 34) (lb) - Maximum Compression/Maximum Tension

1-2=0/41, 2-3=-185/179, 3-4=-164/165, 4-5=-158/152, 5-6=-149/151, 6-7=-141/150, 7-9=-132/153, 9-10=-124/193 10-11=-137/232, 11-12=-165/278, 12-13=-154/252, 13-14=-147/260, 14-15=-147/260, 15-16=-147/260, 16-17=-147/260, 17-18=-147/260, 18-19=-154/252, 19-20=-165/278,

20-21=-137/232, 21-22=-116/193, 22-24=-99/153, 24-25=-80/113, 25-26=-53/73, 26-27=-35/43, 27-28=-58/53, 28-29=0/47, 28-30=-132/4

2-53=-101/94, 52-53=-46/90, 51-52=-46/90, 50-51=-46/90, 49-50=-46/90, 48-49=-46/90, 47-48=-46/90, 46-47=-46/90, 44-46=-46/90, 43-44=-46/90, 42-43=-46/90, 41-42=-46/90,

40-41=-46/90, 39-40=-46/90, 37-39=-46/90, 36-37=-46/90, 35-36=-46/90, 34-35=-46/90, 33-34=-46/90, 32-33=-46/90, 31-32=-46/90,

30-31=-46/90

WEBS 15-42=-183/46, 14-43=-175/19, 12-44=-155/16, 11-46=-190/71,

10-47=-180/54, 9-48=-180/55, 7-49=-185/55, 6-50=-151/55, 5-51=-133/55, 4-52=-139/57, 3-53=-118/52. 16-41=-183/46. 17-40=-175/17, 19-39=-155/0,

Page: 1

20-37=-190/71, 21-36=-180/54 22-35=-180/55, 24-34=-185/55, 25-33=-150/56, 26-32=-139/53,

27-31=-113/80

NOTES

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



May 23,2025

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

FORCES

TOP CHORD

BOT CHORD

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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	A1GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)	173685800

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:49 ID:ttEqrPbgxeFBwnC4262SFrzqF1T-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 3-5-8, Exterior(2N) 3-5-8 to 18-2-0, Corner (3R) 18-2-0 to 22-5-8, Exterior(2N) 22-5-8 to 26-9-0, Corner(3R) 26-9-0 to 31-0-8, Exterior(2N) 31-0-8 to 43-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2, 6 lb uplift at joint 30, 2 lb uplift at joint 42, 19 lb uplift at joint 46, 9 lb uplift at joint 47, 10 lb uplift at joint 48, 10 lb uplift at joint 49, 10 lb uplift at joint 50, 11 lb uplift at joint 51, 8 lb uplift at joint 52, 26 lb uplift at joint 53, 1 lb uplift at joint 41, 21 lb uplift at joint 37, 9 lb uplift at joint 36, 11 lb uplift at joint 35, 10 lb uplift at joint 34, 13 lb uplift at joint 33, 1 lb uplift at joint 32, 72 lb uplift at joint 31 and 78 lb uplift at joint 2.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 23,2025

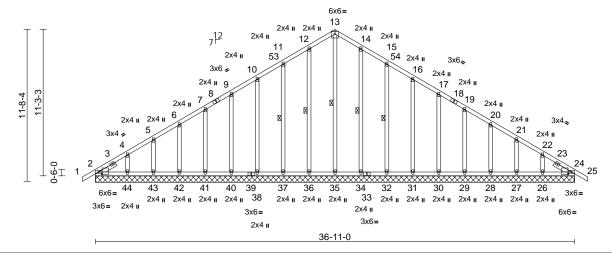


Job Truss Truss Type Qtv Ply Stonehaven Rev 2-FLFV 7-Roof 173685801 A2GE Common Supported Gable Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:52 ID:EN5Z1k48ldAf5nhaqoEcK3zqF0s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:88.8

Plate Offsets (X, Y): [2:0-3-5,0-1-8], [2:0-3-5,0-2-4], [24:0-3-5,0-1-8], [24:0-3-5,0-2-4]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 273 lb	FT = 20%

LUMBER

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

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

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

13-35, 12-36, 11-37, 1 Row at midpt

14-34, 15-32 2=36-11-0, 24=36-11-0,

REACTIONS (size)

26=36-11-0, 27=36-11-0, 28=36-11-0, 29=36-11-0, 30=36-11-0, 31=36-11-0, 32=36-11-0, 34=36-11-0, 35=36-11-0, 36=36-11-0 37=36-11-0, 38=36-11-0, 40=36-11-0, 41=36-11-0, 42=36-11-0, 43=36-11-0,

44=36-11-0 Max Horiz 2=-182 (LC 14)

Max Uplift 2=-30 (LC 12), 26=-22 (LC 17), 27=-7 (LC 17), 28=-11 (LC 17), 29=-10 (LC 17), 30=-10 (LC 17),

31=-10 (LC 17), 32=-14 (LC 17), 34=-1 (LC 17), 36=-4 (LC 16), 37=-13 (LC 16), 38=-10 (LC 16), 40=-10 (LC 16), 41=-10 (LC 16), 42=-11 (LC 16), 43=-7 (LC 16),

44=-25 (LC 16)

Max Grav 2=181 (LC 35), 24=166 (LC 2), 26=193 (LC 35), 27=152 (LC 2), 28=162 (LC 41), 29=159 (LC 2), 30=160 (LC 41), 31=160 (LC 2), 32=181 (LC 24), 34=214 (LC 24), 35=166 (LC 37), 36=214 (LC 23),

37=181 (LC 23), 38=160 (LC 2), 40=160 (LC 40), 41=159 (LC 2),

42=162 (LC 34), 43=152 (LC 2), 44=198 (LC 34)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/41, 2-4=-158/147, 4-5=-138/123, 5-6=-121/112, 6-7=-113/101, 7-9=-106/100, 9-10=-100/107, 10-11=-101/146,

11-12=-122/188, 12-13=-141/221, 13-14=-141/221, 14-15=-122/188, 15-16=-101/146 16-17=-84/107

17-19=-67/67, 19-20=-59/33, 20-21=-65/40, 21-22=-72/51, 22-24=-108/76, 24-25=0/41

2-44=-66/137, 43-44=-66/137, 42-43=-66/137, 41-42=-66/137 40-41=-66/137, 38-40=-66/137,

37-38=-66/137, 36-37=-66/137 35-36=-66/137, 34-35=-66/137, 32-34=-66/137, 31-32=-66/137

30-31=-66/137, 29-30=-66/137, 28-29=-66/137, 27-28=-66/137, 26-27=-66/137, 24-26=-66/137 13-35=-168/62, 12-36=-174/41,

11-37=-141/61, 10-38=-134/54, 9-40=-134/55, 7-41=-134/55, 6-42=-135/56, 5-43=-130/54, 4-44=-155/64, 14-34=-174/41,

15-32=-141/61. 16-31=-134/54. 17-30=-134/55, 19-29=-134/55, 20-28=-135/56, 21-27=-130/54,

22-26=-156/64

NOTES

WEBS

FORCES

BOT CHORD

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

Page: 1

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph: TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-5-8, Exterior(2N) 2-5-8 to 18-5-8, Corner (3R) 18-5-8 to 22-1-13, Exterior(2N) 22-1-13 to 37-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this



May 23,2025

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Stonehaven Rev 2-ELEV. 7-Roof	
	A2GE	Common Supported Gable	1	1	Job Reference (optional)	173685801

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:52 ID:EN5Z1k48ldAf5nhaqoEcK3zqF0s-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 4 lb uplift at joint 36, 13 lb uplift at joint 37, 10 lb uplift at joint 38, 10 lb uplift at joint 40, 10 lb uplift at joint 41, 11 lb uplift at joint 42, 7 lb uplift at joint 43, 25 lb uplift at joint 44, 1 lb uplift at joint 34, 14 lb uplift at joint 32, 10 lb uplift at joint 31, 10 lb uplift at joint 30, 10 lb uplift at joint 29, 11 lb uplift at joint 28, 7 lb uplift at joint 27, 22 lb uplift at joint 26 and 30 lb uplift at joint 2.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025

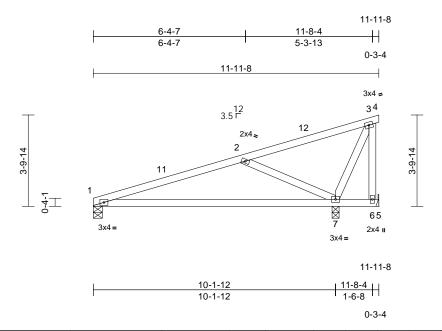


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	C1A	Monopitch	1	1	Job Reference (optional)	

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:55 ID:5KPyFiD4eGkHsw_ojFzyLezeQlC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:48.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.17	7-10	>720	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.36	7-10	>336	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.17	7-10	>705	240		
BCDL	10.0			1							Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied.

REACTIONS (size) 1=0-4-8, 6= Mechanical, 7=0-3-8

Max Horiz 1=76 (LC 12)

Max Uplift 1=-44 (LC 12), 6=-260 (LC 2), 7=-125 (LC 12)

1=355 (LC 2), 6=47 (LC 12), 7=880 Max Grav

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-487/140, 2-3=-96/197, 3-4=-6/0 **BOT CHORD** 1-7=-220/458, 6-7=0/0, 5-6=0/0

WFBS 2-7=-679/298, 3-7=-388/132, 3-6=-52/157

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-11-8 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 5 degree rotation about its center. This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint
- 9) 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.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025





Job	Truss Type		Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof				
	F1GE	Roof Special Supported Gable	1	1	Job Reference (optional)	173685803			

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Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:56 ID:_x5b?raJc7nutuhLfcKbDuzEM2?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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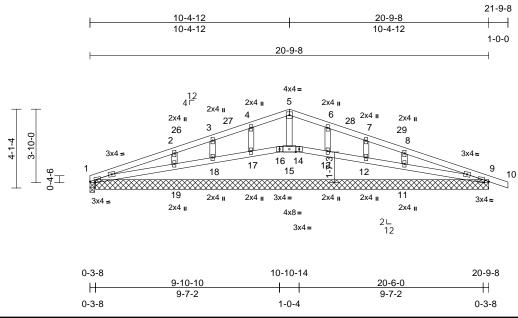


Plate Offsets (X, Y): [1:0-2-13,0-1-0], [9:0-2-13,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	19-22	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	19-22	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	19-22	>999	240		
BCDL	10.0										Weight: 77 lb	FT = 20%

LUMBER

Scale = 1:60.1

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

1=0-3-0, 9=20-6-0, 11=20-6-0, 12=20-6-0. 13=20-6-0. 14=20-6-0. 15=20-6-0, 16=20-6-0, 17=20-6-0,

18=20-6-0, 19=20-6-0 Max Horiz 1=-33 (LC 21)

Max Uplift

9=-21 (LC 13), 11=-1 (LC 17),

12=-2 (LC 13), 13=-3 (LC 17), 17=-3 (LC 16), 19=-3 (LC 16)

Max Grav

1=152 (LC 2), 9=221 (LC 2), 11=343 (LC 41), 12=118 (LC 24), 13=215 (LC 24), 14=40 (LC 7), 15=93 (LC 2), 16=40 (LC 7), 17=216 (LC 23), 18=111 (LC 23),

19=358 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-136/27, 2-3=-78/62, 3-4=-65/84, 4-5=-80/112, 5-6=-80/109, 6-7=-68/81, 7-8=-77/58, 8-9=-104/21, 9-10=0/26

1-19=-15/116, 18-19=-4/45, 17-18=0/50,

16-17=-1/47, 15-16=0/45, 14-15=0/45, 13-14=-1/48, 12-13=0/50, 11-12=-4/46,

9-11=-7/83

5-15=-83/0, 4-17=-168/91, 3-18=-107/46 2-19=-235/100, 6-13=-167/91, 7-12=-110/47,

8-11=-229/97

NOTES

WEBS

BOT CHORD

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 10-4-12, Corner(3R) 10-4-12 to 13-4-12, Exterior(2N) 13-4-12 to 21-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 9, 3 lb uplift at joint 17, 3 lb uplift at joint 19, 3 lb uplift at joint 13, 2 lb uplift at joint 12, 1 lb uplift at joint 11 and 21 Ib uplift at joint 9.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 14, 9, 15, 17, 18, 19, 13, 12, 11, 23,
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



May 23,2025



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

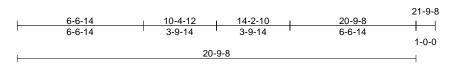
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

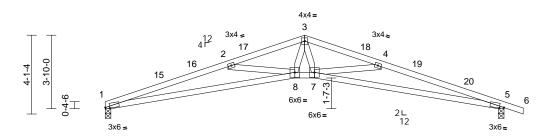


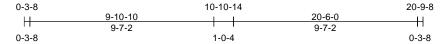
Job	Truss	Truss Type		Ply	Stonehaven Rev 2-ELEV. 7-Roof			
	F1	Roof Special	4	1	Job Reference (optional)	173685804		

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Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:56 ID:t_tYP1qUfaRwu7nNNWCWZKzEM1g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:60.1

Plate Offsets (X, Y): [1:0-2-13,0-0-12], [5:0-2-13,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.24	7-8	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.52	8-11	>477	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.22	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.13	7-8	>999	240		
BCDL	10.0										Weight: 81 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP SS *Except* 8-7:2x4 SP No.2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD**

Rigid ceiling directly applied. REACTIONS (size) 1=0-3-8, 5=0-3-8

Max Horiz 1=-33 (LC 17)

Max Grav 1=830 (LC 2), 5=893 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3272/364, 2-3=-2648/229,

3-4=-2644/220, 4-5=-3260/372, 5-6=0/26

1-8=-295/3128, 7-8=-103/2285, **BOT CHORD** 5-7=-307/3115

WEBS 3-7=-18/728, 3-8=-25/740, 2-8=-698/191,

4-7=-690/189

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-4-12, Exterior(2R) 10-4-12 to 13-4-12, Interior (1) 13-4-12 to 21-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



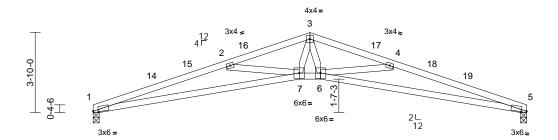
May 23,2025

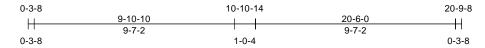


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-ELEV. 7-Roof	
	F2	Roof Special	2	1	Job Reference (optional)	

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:56 ID:LRyLBB2nQ6iM2u9qRIXkl6zEM1O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:55.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.24	6-7	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.52	6-13	>476	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.22	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.13	6-7	>999	240		
BCDL	10.0										Weight: 80 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP SS *Except* 7-6:2x4 SP No.2 BOT CHORD

WEBS 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-8, 5=0-3-8

Max Horiz 1=-28 (LC 17)

Max Grav 1=832 (LC 2), 5=832 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3280/388, 2-3=-2656/238,

3-4=-2656/243, 4-5=-3280/384

1-7=-336/3136, 6-7=-128/2293, **BOT CHORD** 5-6=-327/3136

WEBS 3-6=-28/738, 3-7=-26/738, 2-7=-698/190,

4-6=-698/191

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-4-12, Exterior(2R) 10-4-12 to 13-4-12, Interior (1) 13-4-12 to 20-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Page: 1

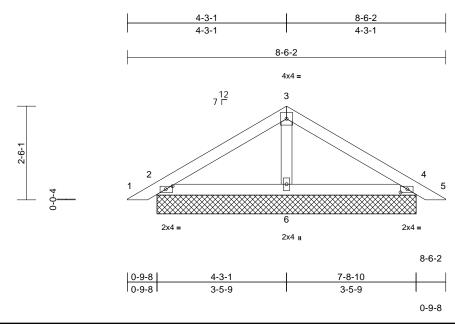




Job	Truss	Truss Type		Ply	Stonehaven Rev 2-ELEV. 7-Roof				
	PB1GE	Piggyback	2	1	Job Reference (optional)	173685806			

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 08:00:59 ID:a0Km3IM?jZ1HRyrWpB9ytRzeKPd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.8

Plate Offsets (X, Y): [2:0-1-13,Edge], [4:0-1-13,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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=6-11-2, 4=6-11-2, 6=6-11-2

Max Horiz 2=37 (LC 15)

Max Uplift 2=-2 (LC 16), 4=-6 (LC 17)

Max Grav 2=226 (LC 23), 4=226 (LC 24),

6=247 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/21, 2-3=-116/60, 3-4=-116/60, 4-5=0/21

BOT CHORD 2-6=-5/52, 4-6=-7/55 WEBS 3-6=-117/22

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-3-8, Exterior(2R) 4-3-8 to 7-3-8, Interior (1) 7-3-8 to 8-3-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) N/A
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 23,2025

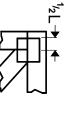
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

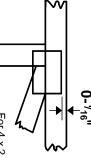


Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

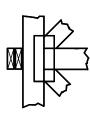
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



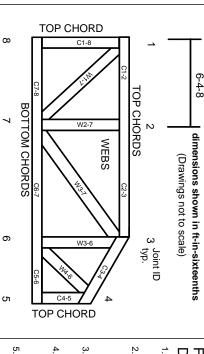
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

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.

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 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.
- 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.