

RE: 2411-0122-A - Stonehaven Rev 2-EL-1-Floor

Site Information:

Project Customer: DRB Raleigh Project Name:

Subdivision: Lot/Block:

Model: Address:

City: Angier 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

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

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.	Seal#	Truss Name	Date
1	173385730	2F9	5/13/25	35	173385764	1F10	5/13/25
3	173385731 173385732	2F9A 2F8	5/13/25 5/13/25	36 37	173385765 173385766	1F12 1F13	5/13/25 5/13/25
4	173385733	2F9B	5/13/25	38	173385767	1F11	5/13/25
1 2 3 4 5 6 7	173385734 173385735	2F14 2F12	5/13/25 5/13/25	39 40	173385768 173385769	1F14 1FGE7	5/13/25 5/13/25
7	173385736	2F16A	5/13/25	41	173385770	2F22	5/13/25
8 9	173385737 173385738	2FGE3 2F4	5/13/25 5/13/25	43	173385771 173385772	2F22A 2F21	5/13/25 5/13/25
10	173385739	2F1	5/13/25	44	173385773	1F15	5/13/25
11 12	173385740 173385741	2F2 2F1A	5/13/25 5/13/25	45 46	173385774 173385775	1FGE8 2F18	5/13/25 5/13/25
13	173385742	2FGE1	5/13/25	47	173385776	2F17	5/13/25
14	173385743 173385744	1F5 2F23A	5/13/25 5/13/25	48 49	173385777 173385778	2F27 2F20	5/13/25 5/13/25
16 17	173385745 173385746	1F4 1F2	5/13/25	50	173385779 173385780	1FGE4 1F7	5/13/25
18	173385747	1F2 1F1	5/13/25 5/13/25	52	173385781	2F3	5/13/25 5/13/25
19 20	173385748 173385749	1FGE1 2F25	5/13/25 5/13/25	53 54	173385782 173385783	1F6 1FGE3	5/13/25 5/13/25
21	173385750	2F24A	5/13/25	55	173385784	2FGE6	5/13/25
22 23	173385751 173385752	2F24 1FGE6	5/13/25 5/13/25	56 57	173385785 173385786	2FG1 2FG2	5/13/25 5/13/25
	173385753	2FGE2	5/13/25	58	173385787	1F8	5/13/25
25 26	173385754 173385755	2F10 1F3	5/13/25 5/13/25	59	173385788 173385789	2F15 1FGE5	5/13/25 5/13/25
27	173385756	2F6	5/13/25	61	173385790	2FG3	5/13/25
28 29	173385757 173385758	2F5 2F26	5/13/25 5/13/25	62 63	173385791 173385792	2F7 1FGE9	5/13/25 5/13/25
30	173385759	2F26A	5/13/25	03	17 33037 32	II OLS	3/13/23
31 32	173385760 173385761	2FGE4 2F16	5/13/25 5/13/25				
	173385762	1FGR1	5/13/25				
34	173385763	1F9	5/13/25				

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(a) idea in the seal on t 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.



Trenco

818 Soundside Rd

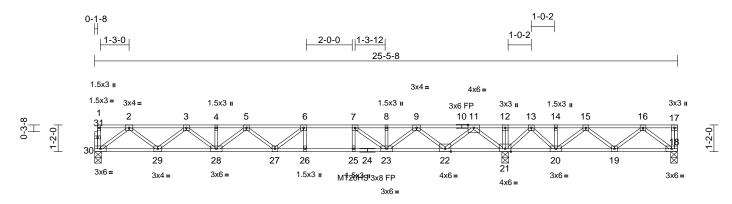
Edenton, NC 27932

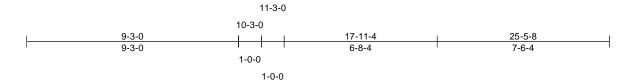
May 13,2025

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F9	Floor	2	1	Job Reference (optional)	173385730

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:26 ID:11?wFX7hOeLmEuoJHI?Nn9y8MU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:50.3

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.26	26-27	>823	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.36	26-27	>601	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%F, 12%E

LUMBER

2x4 SP No.2(flat) TOP CHORD **BOT CHORD** 2x4 SP SS(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 18=0-3-8, 21=0-3-8, 30=0-3-8

Max Uplift 18=-157 (LC 3)

18=240 (LC 4), 21=1477 (LC 1), Max Grav

30=676 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-30=-28/0, 17-18=-30/0, 1-2=-2/0, 2-3=-1397/0, 3-4=-2231/0, 4-5=-2231/0, 5-6=-2491/0, 6-7=-2267/0, 7-8=-1471/0, 8-9=-1471/0, 9-11=-169/62, 11-12=0/1821,

12-13=0/1820, 13-14=-62/1084,

14-15=-62/1084, 15-16=-290/473, 16-17=0/0 **BOT CHORD** 29-30=0/844, 28-29=0/1920, 27-28=0/2519,

26-27=0/2267, 25-26=0/2267, 23-25=0/2267, 22-23=0/929, 21-22=-726/0, 20-21=-1392/0,

19-20=-751/286, 18-19=-225/265

6-26=-300/0, 7-25=0/309, 12-21=-101/0, 2-30=-1056/0. 2-29=0/721. 3-29=-680/0. 3-28=0/397. 4-28=-14/1. 5-28=-368/0.

5-27=-115/130, 6-27=-61/414, 11-21=-1376/0,

11-22=0/1051, 9-22=-999/0, 9-23=0/700, 16-18=-333/282, 16-19=-323/32

15-19=0/361, 15-20=-565/0, 14-20=-70/0, 8-23=-43/135, 7-23=-1055/0, 13-20=0/626,

13-21=-769/0

NOTES

WEBS

- Unbalanced floor live loads have been considered for
- All plates are MT20 plates unless otherwise indicated

- All plates are 3x3 (=) MT20 unless otherwise indicated.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

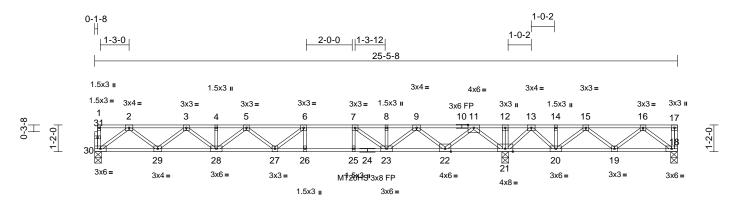
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

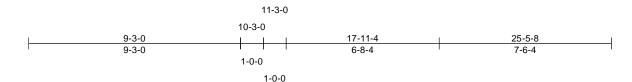
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-EL-1-Floor	
	2F9A	Floor	2	1	Job Reference (optional)	173385731

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:26 ID:11?wFX7hOeLmEuoJHI?Nn9y8MU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





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Loading	(psf)	Spacing	1-10-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.27	26-27	>800	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.37	26-27	>585	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 10-17:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP SS(flat) WEBS 2x4 SP No.3(flat) 2x4 SP No.3(flat) **OTHERS**

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) 18=0-3-8, 21=0-3-8, 30=0-3-8

Max Uplift 18=-165 (LC 3)

18=278 (LC 4), 21=1674 (LC 1), Max Grav

30=781 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-30=-33/0, 17-18=-34/0, 1-2=-2/0,

2-3=-1618/0, 3-4=-2591/0, 4-5=-2591/0, 5-6=-2897/0, 6-7=-2663/0, 7-8=-1766/0,

8-9=-1766/0, 9-11=-285/55, 11-12=0/1985,

12-13=0/1984, 13-14=-85/1166,

14-15=-85/1166, 15-16=-339/504, 16-17=0/0 29-30=0/975, 28-29=0/2225, 27-28=0/2931,

26-27=0/2663, 25-26=0/2663, 23-25=0/2663,

22-23=0/1153, 21-22=-742/0, 20-21=-1503/0,

19-20=-803/339. 18-19=-238/308

6-26=-304/0, 7-25=0/316, 12-21=-119/0, 2-30=-1221/0, 2-29=0/836, 3-29=-790/0,

3-28=0/468, 4-28=-14/2, 5-28=-433/0,

5-27=-142/154, 6-27=-84/452,

11-21=-1562/0, 11-22=0/1197, 9-22=-1142/0, 9-23=0/792, 16-18=-386/298, 16-19=-347/41, 15-19=0/390, 15-20=-625/0, 14-20=-81/0, 13-21=-859/0, 13-20=0/697, 8-23=-47/174,

7-23=-1200/0

NOTES

WEBS

BOT CHORD

- Unbalanced floor live loads have been considered for
- All plates are MT20 plates unless otherwise indicated

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

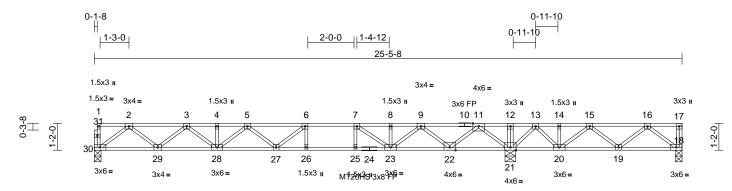


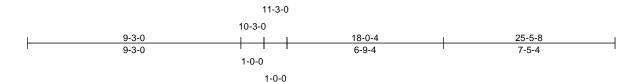
May 13,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F8	Floor	2	1	Job Reference (optional)	173385732

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Scale = 1:49.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.26	26-27	>820	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.36	26-27	>599	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%F, 12%E

LUMBER

2x4 SP No.2(flat) TOP CHORD **BOT CHORD** 2x4 SP SS(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 18=0-3-8, 21=0-5-8, 30=0-3-8

Max Uplift 18=-165 (LC 3)

18=234 (LC 4), 21=1485 (LC 1), Max Grav

30=678 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-30=-28/0, 17-18=-30/0, 1-2=-2/0, 2-3=-1403/0, 3-4=-2243/0, 4-5=-2243/0, 5-6=-2508/0, 6-7=-2289/0, 7-8=-1466/0, 8-9=-1466/0, 9-11=-151/63, 11-12=0/1848,

12-13=0/1847, 13-14=-36/1124, 14-15=-36/1124, 15-16=-277/494, 16-17=0/0

BOT CHORD 29-30=0/847, 28-29=0/1929, 27-28=0/2534,

26-27=0/2289, 25-26=0/2289, 23-25=0/2289, 22-23=0/916, 21-22=-747/0, 20-21=-1427/0,

19-20=-780/267, 18-19=-236/258

WEBS 6-26=-299/0, 7-25=0/300, 12-21=-100/0

> 2-30=-1060/0 2-29=0/725 3-29=-684/0 3-28=0/401, 4-28=-14/1, 5-28=-371/0, 5-27=-112/133, 6-27=-66/411, 11-21=-1384/0, 11-22=0/1058, 9-22=-1006/0, 9-23=0/709,

16-18=-324/296, 16-19=-336/24,

15-19=0/374, 15-20=-582/0, 8-23=-51/127, 14-20=-69/0, 7-23=-1065/0, 13-20=0/625,

13-21=-760/0

NOTES

- Unbalanced floor live loads have been considered for
- All plates are MT20 plates unless otherwise indicated

- All plates are 3x3 (=) MT20 unless otherwise indicated.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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

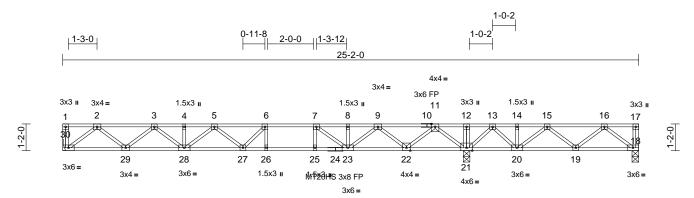
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

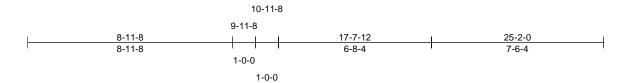


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F9B	Floor	1	1	Job Reference (optional)	173385733

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:27 ID:11?wFX7hOeLmEuoJHI?Nn9y8MU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:50.3

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.24	26-27	>886	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.32	26-27	>647	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%F, 12%E

LUMBER

2x4 SP No.2(flat) TOP CHORD

BOT CHORD 2x4 SP SS(flat) *Except* 24-18:2x4 SP No.2

(flat)

WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 18=0-3-8, 21=0-3-8, 30=

Mechanical Max Uplift 18=-148 (LC 3)

Max Grav 18=241 (LC 4), 21=1455 (LC 1),

30=670 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-30=-31/0, 17-18=-30/0, 1-2=0/0,

2-3=-1371/0, 3-4=-2182/0, 4-5=-2182/0, 5-6=-2410/0, 6-7=-2214/0, 7-8=-1470/0

8-9=-1470/0, 9-11=-195/61, 11-12=0/1765, 12-13=0/1765, 13-14=-69/1039,

14-15=-69/1039, 15-16=-293/450, 16-17=0/0 BOT CHORD 29-30=0/830, 28-29=0/1880, 27-28=0/2441,

26-27=0/2214, 25-26=0/2214, 23-25=0/2214,

22-23=0/940, 21-22=-687/0, 20-21=-1336/0,

19-20=-717/292, 18-19=-213/267

6-26=-327/0, 7-25=0/286, 12-21=-98/0, 2-30=-1042/0, 2-29=0/703, 3-29=-664/0,

3-28=0/385, 4-28=-27/0, 5-28=-330/0,

5-27=-126/135, 6-27=-56/413,

11-21=-1355/0, 11-22=0/1027, 9-22=-979/0, 9-23=0/686, 16-18=-335/267, 16-19=-309/34, 15-19=0/346, 15-20=-553/0, 8-23=-47/125, 7-23=-996/0. 14-20=-68/0. 13-21=-760/0.

13-20=0/613

NOTES

WEBS

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.

- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

Page: 1

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

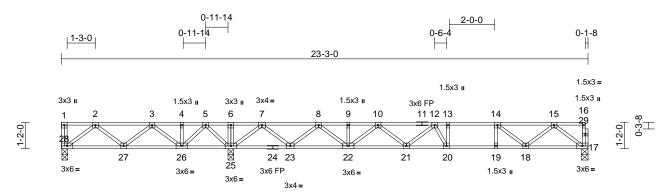
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

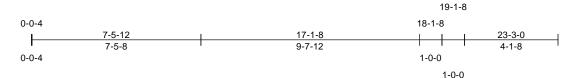


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F14	Floor	3	1	Job Reference (optional)	173385734

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:28 ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:50.9

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.13	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.17	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 120 lb	FT = 20%F, 12%E

LUMBER

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

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) 17=0-3-8, 25=0-3-0, 28=0-3-0

Max Uplift 28=-163 (LC 4)

17=458 (LC 4), 25=1210 (LC 1), Max Grav

28=189 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-28=-25/0, 16-17=-33/0, 1-2=0/0, 2-3=-214/475, 3-4=0/1063, 4-5=0/1063, 5-6=0/1737, 6-7=0/1737, 7-8=0/342, 8-9=-785/0, 9-10=-785/0, 10-12=-1292/0,

12-13=-1310/0, 13-14=-1310/0, 14-15=-904/0, 15-16=-2/0

BOT CHORD 27-28=-230/207, 26-27=-744/198,

25-26=-1345/0, 23-25=-916/0, 22-23=0/367, 21-22=0/1134, 20-21=0/1395, 19-20=0/1310,

18-19=0/1310, 17-18=0/549

WEBS 6-25=-80/0. 13-20=-100/128. 14-19=-2/120.

> 2-28=-259/288, 2-27=-319/10, 3-27=0/351. 3-26=-526/0, 7-25=-1062/0, 7-23=0/788, 8-23=-763/0, 8-22=0/543, 9-22=-44/0, 10-22=-454/0, 10-21=0/214, 12-21=-174/0, 12-20=-240/139. 15-17=-686/0. 15-18=0/463. 14-18=-518/0, 4-26=-56/0, 5-25=-683/0,

5-26=0/561

NOTES

- Unbalanced floor live loads have been considered for 1)
- All plates are 3x3 (=) MT20 unless otherwise indicated

- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



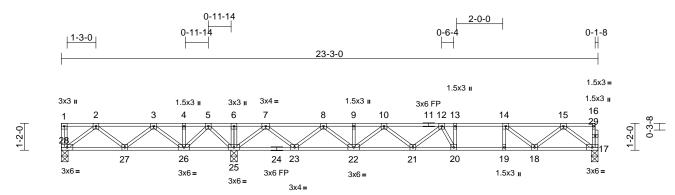
May 13,2025

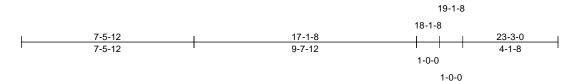


Ī	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
l		2F12	Floor	5	1	Job Reference (optional)	173385735

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:28 ID:1UUUhjw1OQCBhH?2nEBObZy8MUM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:49.9

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.13	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.17	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 120 lb	FT = 20%F, 12%E

LUMBER

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

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) 17=0-3-8, 25=0-3-8, 28=0-3-8

Max Uplift 28=-163 (LC 4)

17=458 (LC 4), 25=1210 (LC 1), Max Grav

28=189 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-28=-25/0, 16-17=-33/0, 1-2=0/0, 2-3=-214/475, 3-4=0/1063, 4-5=0/1063, 5-6=0/1737, 6-7=0/1737, 7-8=0/342, 8-9=-785/0, 9-10=-785/0, 10-12=-1292/0,

12-13=-1310/0, 13-14=-1310/0, 14-15=-904/0, 15-16=-2/0

BOT CHORD 27-28=-230/207, 26-27=-744/198,

25-26=-1345/0, 23-25=-916/0, 22-23=0/367, 21-22=0/1134, 20-21=0/1395, 19-20=0/1310,

18-19=0/1310, 17-18=0/549

WEBS 6-25=-80/0. 13-20=-100/128. 14-19=-2/120.

2-28=-259/288, 2-27=-319/10, 3-27=0/351, 3-26=-526/0, 7-25=-1062/0, 7-23=0/788, 8-23=-763/0, 8-22=0/543, 9-22=-44/0, 10-22=-454/0, 10-21=0/214, 12-21=-174/0, 12-20=-240/139. 15-17=-686/0. 15-18=0/463. 14-18=-518/0, 4-26=-56/0, 5-25=-683/0,

5-26=0/561

NOTES

- 1) Unbalanced floor live loads have been considered for
- All plates are 3x3 (=) MT20 unless otherwise indicated.

- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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

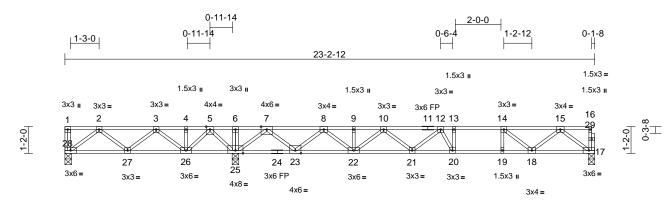
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

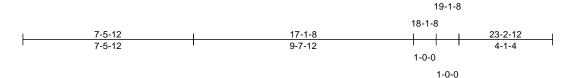


Ī	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
L		2F16A	Floor	1	1	Job Reference (optional)	173385736

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:29 ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:50.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.24	20-21	>786	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	-0.01	25	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 120 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 24-17:2x4 SP SS

(flat)

WEBS 2x4 SP No.3(flat) 2x4 SP No.3(flat) **OTHERS**

BRACING TOP CHORD

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

Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS (size) 17=0-3-4, 25=0-3-8, 28=0-3-8

Max Uplift 28=-227 (LC 4)

17=694 (LC 4), 25=1791 (LC 1), Max Grav

28=286 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-28=-37/0, 16-17=-49/0, 1-2=0/0,

2-3=-329/668, 3-4=-11/1508, 4-5=-11/1508,

5-6=0/2492, 6-7=0/2492, 7-8=0/419, 8-9=-1254/0, 9-10=-1254/0, 10-12=-1995/0,

12-13=-1996/0, 13-14=-1996/0,

14-15=-1371/0, 15-16=-3/0

BOT CHORD 27-28=-322/314, 26-27=-1052/309,

25-26=-1913/0, 23-25=-1270/0, 22-23=0/639, 21-22=0/1767, 20-21=0/2128, 19-20=0/1996,

18-19=0/1996. 17-18=0/831

WEBS 6-25=-119/0, 13-20=-141/167, 14-19=-1/213,

2-28=-394/403, 2-27=-451/19, 3-27=0/499, 3-26=-763/0, 7-25=-1579/0, 7-23=0/1170, 8-23=-1132/0. 8-22=0/800. 9-22=-65/0.

10-22=-671/0. 10-21=0/310. 12-21=-256/0.

12-20=-361/197, 15-17=-1039/0,

15-18=0/702, 14-18=-803/0, 4-26=-84/0, 5-25=-1001/0, 5-26=0/819

NOTES

Unbalanced floor live loads have been considered for this design.

- 2) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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

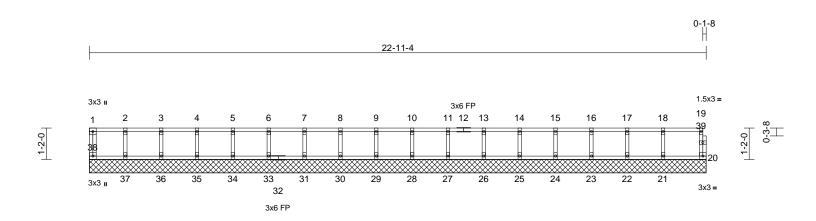
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



ſ	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
		2FGE3	Floor Supported Gable	1	1	Job Reference (optional)	173385737

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:34 $ID:9FIq__HrKe_wHulpYXkRpuy8MTu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1



Scale = 1:42.8

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 95 lb	FT = 20%F, 12%E

LUMBER TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

2x4 SP No.3(flat) *Except* 20-39:2x4 SP OTHERS

No.2(flat)

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)

20=22-11-4, 21=22-11-4, 22=22-11-4, 23=22-11-4, 24=22-11-4, 25=22-11-4, 26=22-11-4, 27=22-11-4, 28=22-11-4, 29=22-11-4, 30=22-11-4, 31=22-11-4, 33=22-11-4, 34=22-11-4, 35=22-11-4, 36=22-11-4, 37=22-11-4, 38=22-11-4

Max Grav

20=47 (LC 1), 21=108 (LC 1), 22=95 (LC 1), 23=99 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=98 (LC 1), 33=98 (LC 1), 34=98 (LC 1), 35=97 (LC 1), 36=99 (LC 1), 37=92 (LC 1), 38=44 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-38=-39/0, 19-20=-44/0, 1-2=-9/0, 2-3=-9/0,

3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0, 15-16=-9/0, 16-17=-9/0, 17-18=-9/0,

18-19=-9/0

BOT CHORD 37-38=0/9, 36-37=0/9, 35-36=0/9, 34-35=0/9,

33-34=0/9, 31-33=0/9, 30-31=0/9, 29-30=0/9, 28-29=0/9, 27-28=0/9, 26-27=0/9, 25-26=0/9, 24-25=0/9, 23-24=0/9, 22-23=0/9, 21-22=0/9,

20-21=0/9

WEBS 2-37=-85/0, 3-36=-90/0, 4-35=-89/0, 5-34=-89/0, 6-33=-89/0, 7-31=-89/0,

8-30=-89/0, 9-29=-89/0, 10-28=-89/0, 11-27=-89/0, 13-26=-89/0, 14-25=-89/0, 15-24=-89/0, 16-23=-89/0, 17-22=-87/0,

18-21=-97/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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

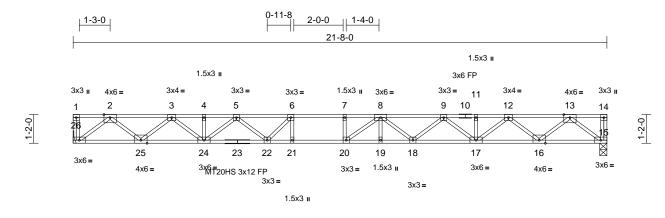
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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-EL-1-Floor 173385738 2F4 Floor 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. Fri May 09 13:48:25 ID:IP4Gn81I2VTmupmzNKNk?gy8MUC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



10-11-8 9-11-8 8-11-8 21-8-0 8-11-8 10-8-8 1-0-0 1-0-0

Scale = 1:46.8

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.45	19-20	>567	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.62	19-20	>412	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.09	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) 2x4 SP SS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

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) 15=0-3-8, 26= Mechanical

Max Grav 15=942 (LC 1), 26=942 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-32/0, 14-15=-32/0, 1-2=0/0,

2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4440/0, 6-7=-4765/0, 7-8=-4765/0, 8-9=-4424/0, 9-11=-3540/0, 11-12=-3540/0,

12-13=-2050/0, 13-14=0/0

BOT CHORD 25-26=0/1187, 24-25=0/2887, 22-24=0/4083,

21-22=0/4765, 20-21=0/4765, 19-20=0/4751, 18-19=0/4751, 17-18=0/4103, 16-17=0/2887,

15-16=0/1187

WEBS 6-21=-110/246, 7-20=-178/30, 2-26=-1489/0,

2-25=0/1123, 3-25=-1090/0, 3-24=0/841, 4-24=-72/0, 5-24=-687/0, 5-22=0/579, 6-22=-692/0, 13-15=-1489/0, 13-16=0/1124, 12-16=-1089/0, 12-17=0/833, 11-17=-54/0, 9-17=-720/0 9-18=0/418 8-18=-417/0

8-19=-52/123, 8-20=-363/507

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 13,2025

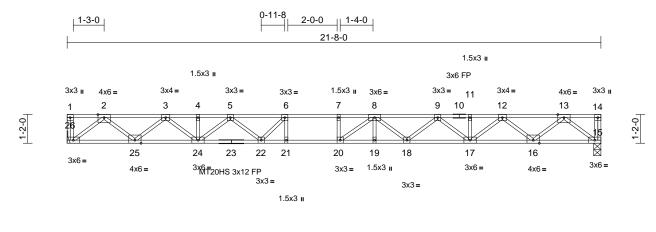


Ply Job Truss Truss Type Qty Stonehaven Rev 2-EL-1-Floor 173385739 2F1 Floor 2 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:23 ID:dvoM3it86VqcqpGT66eh_xy8MUP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10-11-8 9-11-8 8-11-8 21-8-0 8-11-8 10-8-8 1-0-0 1-0-0

Scale = 1:46.8

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.44	19-20	>582	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.61	19-20	>423	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) 2x4 SP DSS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

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) 15=0-3-8, 26= Mechanical

Max Grav 15=942 (LC 1), 26=942 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-26=-32/0, 14-15=-32/0, 1-2=0/0,

2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4440/0, 6-7=-4765/0, 7-8=-4765/0, 8-9=-4424/0, 9-11=-3539/0, 11-12=-3539/0,

12-13=-2050/0, 13-14=0/0

BOT CHORD 25-26=0/1187, 24-25=0/2887, 22-24=0/4084,

21-22=0/4765, 20-21=0/4765, 19-20=0/4751, 18-19=0/4751, 17-18=0/4103, 16-17=0/2887,

15-16=0/1186

WEBS 6-21=-113/252, 7-20=-175/25, 2-26=-1489/0,

2-25=0/1124, 3-25=-1090/0, 3-24=0/840, 4-24=-71/0, 5-24=-688/0, 5-22=0/576, 6-22=-695/0, 13-15=-1489/0, 13-16=0/1124, 12-16=-1090/0, 12-17=0/832, 11-17=-53/0, 9-17=-720/0 9-18=0/418 8-18=-418/0

8-19=-53/126, 8-20=-364/506

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 13,2025

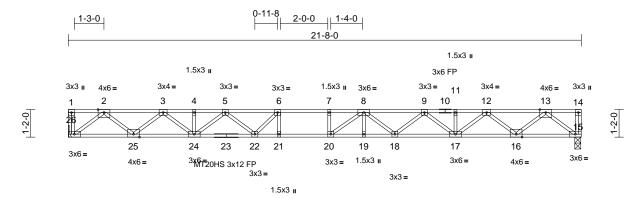


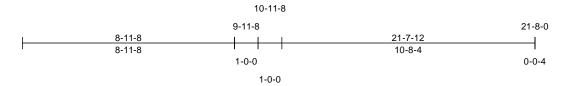
Ply Job Truss Truss Type Qty Stonehaven Rev 2-EL-1-Floor 173385740 2F2 Floor 3 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:24 ID:wFj?X5zXSficAulp04GKmPy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.44	19-20	>582	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.61	19-20	>423	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:48.7

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP DSS(flat) 2x4 SP No.3(flat) WEBS

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) 15=0-3-0, 26= Mechanical

Max Grav 15=942 (LC 1), 26=942 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-26=-32/0, 14-15=-32/0, 1-2=0/0,

2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4440/0, 6-7=-4765/0, 7-8=-4765/0, 8-9=-4424/0, 9-11=-3539/0, 11-12=-3539/0,

12-13=-2050/0, 13-14=0/0

BOT CHORD 25-26=0/1187, 24-25=0/2887, 22-24=0/4084,

21-22=0/4765, 20-21=0/4765, 19-20=0/4751, 18-19=0/4751, 17-18=0/4103, 16-17=0/2887,

15-16=0/1186

6-21=-113/252, 7-20=-175/25, 2-26=-1489/0,

2-25=0/1124, 3-25=-1090/0, 3-24=0/840, 4-24=-71/0, 5-24=-688/0, 5-22=0/576, 6-22=-695/0, 13-15=-1489/0, 13-16=0/1124, 12-16=-1090/0, 12-17=0/832, 11-17=-53/0, 9-17=-720/0 9-18=0/418 8-18=-418/0

8-19=-53/126, 8-20=-364/506

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 13,2025

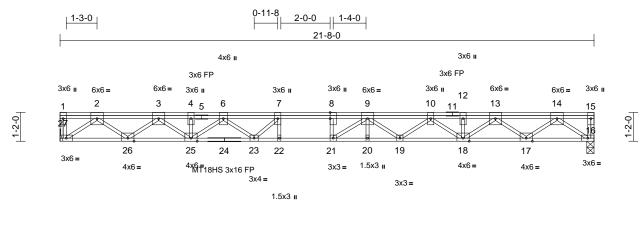


Job Truss Truss Type Qty Ply Stonehaven Rev 2-FL-1-Floor 173385741 2F1A Floor 3 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:24 ID:dvoM3it86VqcqpGT66eh_xy8MUP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10-11-8 9-11-8 8-11-8 21-8-0 8-11-8 10-8-8 1-0-0 1-0-0

Scale = 1:46.8

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

Loading	(psf)	Spacing	1-10-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)		(/	>614		MT18HS	244/190
TCDL				_		` '			>447			244/190
	10.0	Lumber DOL	1.00	BC		Vert(CT)	-0.58				MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.10	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 140 lb	FT = 20%F, 12%E

LOAD CASE(S) Standard

TOP CHORD 2x4 SP SS(flat) 2x4 SP DSS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

BOT CHORD

LUMBER

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

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

bracing.

REACTIONS 16=0-3-8, 27= Mechanical (size)

Max Grav 16=1080 (LC 1), 27=1080 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-46/0, 15-16=-46/0, 1-2=0/0,

2-3=-2477/0, 3-4=-4315/0, 4-6=-4315/0, 6-7=-5393/0, 7-8=-5775/0, 8-9=-5775/0,

9-10=-5357/0, 10-12=-4307/0,

12-13=-4307/0, 13-14=-2477/0, 14-15=0/0 26-27=0/1435, 25-26=0/3486, 23-25=0/4926,

22-23=0/5775, 21-22=0/5775, 20-21=0/5736,

19-20=0/5736, 18-19=0/4962, 17-18=0/3486,

16-17=0/1434

WEBS 7-22=-47/112, 8-21=-272/166, 2-27=-1761/0,

2-26=0/1324, 3-26=-1282/0, 3-25=0/1034, 4-25=-139/0, 6-25=-762/0, 6-23=0/772, 7-23=-747/0. 14-16=-1761/0. 14-17=0/1325. 13-17=-1282/0, 13-18=0/1023, 12-18=-102/0, 10-18=-818/0, 10-19=0/501, 9-19=-473/0,

9-20=-25/45, 9-21=-407/610

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



May 13,2025

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

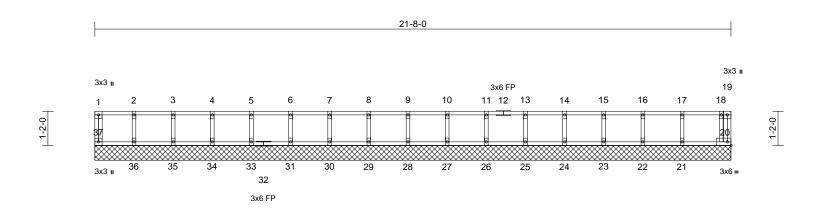
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



I	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
l		2FGE1	Floor Supported Gable	1	1	Job Reference (optional)	I73385742

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:33 ID:lgchLyEz1jcLQQZEtPAkBGy8MTx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.2

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 92 lb	FT = 20%F, 12%E

LUMBER

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

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)

20=21-8-0, 21=21-8-0, 22=21-8-0, 23=21-8-0, 24=21-8-0, 25=21-8-0, 26=21-8-0, 27=21-8-0, 28=21-8-0, 29=21-8-0, 30=21-8-0, 31=21-8-0, 33=21-8-0, 34=21-8-0, 35=21-8-0,

36=21-8-0, 37=21-8-0 Max Grav 20=68 (LC 1), 21=128 (LC 1), 22=114 (LC 1), 23=118 (LC 1),

24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 29=117 (LC 1), 30=117 (LC 1), 31=117 (LC 1), 33=117 (LC 1), 34=117 (LC 1),

35=119 (LC 1), 36=110 (LC 1), 37=54 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-37=-47/0, 19-20=0/9, 1-2=-12/0, 2-3=-12/0,

3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0, 9-10=-12/0, 10-11=-12/0, 11-13=-12/0, 13-14=-12/0, 14-15=-12/0, 15-16=-12/0, 16-17=-12/0,

17-18=-12/0, 18-19=-2/0

36-37=0/12, 35-36=0/12, 34-35=0/12, BOT CHORD 33-34=0/12, 31-33=0/12, 30-31=0/12,

> 29-30=0/12. 28-29=0/12, 27-28=0/12, 26-27=0/12, 25-26=0/12, 24-25=0/12, 23-24=0/12, 22-23=0/12, 21-22=0/12,

20-21=0/12

WEBS 2-36=-102/0, 3-35=-108/0, 4-34=-106/0,

5-33=-107/0, 6-31=-107/0, 7-30=-107/0, 8-29=-107/0, 9-28=-107/0, 10-27=-107/0, 11-26=-107/0, 13-25=-107/0, 14-24=-106/0,

15-23=-107/0, 16-22=-105/0, 17-21=-114/0,

18-20=-74/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 13,2025

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

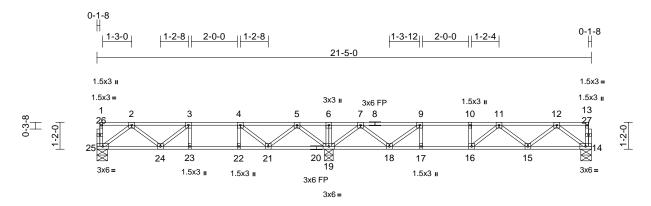
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Ply Truss Type Job Truss Qty Stonehaven Rev 2-FI -1-Floor 173385743 1F5 Floor 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. Fri May 09 13:48:19 ID:9wzDLEVFSHeWvT8IIATnJYzewTm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:49.9

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.09	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.12	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 106 lb	FT = 20%F, 12%E

LUMBER

LOAD CASE(S) Standard

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

BRACING

BOT CHORD

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing, Except:

6-0-0 oc bracing: 19-21,18-19.

REACTIONS 14=0-5-8, 19=0-4-8, 25=0-5-8

Max Grav 14=467 (LC 7), 19=1025 (LC 1),

25=405 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-25=-24/0, 13-14=-29/0, 1-2=-1/0, 2-3=-716/0, 3-4=-900/0, 4-5=-598/9, 5-6=0/564, 6-7=0/564, 7-9=-740/0,

9-10=-1165/0, 10-11=-1165/0, 11-12=-880/0,

12-13=-2/0

24-25=0/493, 23-24=0/900, 22-23=0/900,

21-22=0/900, 19-21=-131/308,

18-19=-102/377, 17-18=0/1165,

16-17=0/1165, 15-16=0/1142, 14-15=0/572 **WEBS** 3-23=-88/10, 4-22=0/113, 6-19=-95/0,

9-17=0/128. 10-16=-74/20. 5-19=-718/0. 5-21=0/440, 4-21=-483/0, 7-19=-797/0, 7-18=0/533, 9-18=-622/0, 12-14=-716/0, 12-15=0/401. 11-15=-341/0. 11-16=-105/128.

2-25=-617/0, 2-24=0/290, 3-24=-238/14

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated. Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls
- at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards.

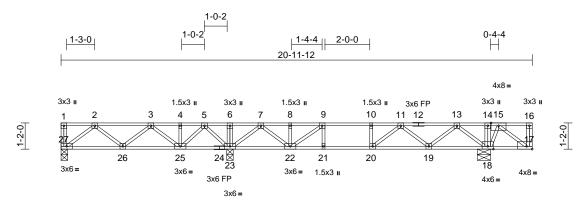




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F23A	Floor	1	1	Job Reference (optional)	173385744

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:31 ID:KqP897?Qla4B1M1OiCp1O2y8MUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



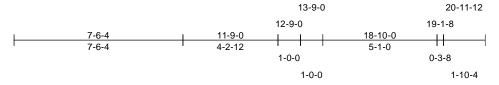


Plate Offsets (X, Y): [17:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	1./4	PLATES	GRIP
Loading	(psi)	Spacing	1-4-0	631		DEFL	1111	(IUC)	i/ueii	L/u	FLAILS	GRIF
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	0.08	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	0.13	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	-0.02	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:51.3

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

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 18=0-7-0, 23=0-3-8, 27=0-3-8 (size)

Max Uplift 27=-18 (LC 4)

18=1771 (LC 4), 23=733 (LC 3), Max Grav

27=224 (LC 12)

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

Tension

TOP CHORD 1-27=-25/0, 16-17=-1118/0, 1-2=0/0,

2-3=-303/110, 3-4=-172/340, 4-5=-172/340, 5-6=0/816, 6-7=0/817, 7-8=-199/603,

8-9=-199/603, 9-10=-360/910,

10-11=-360/910, 11-13=0/1509,

13-14=0/2044, 14-15=0/2044, 15-16=0/0

26-27=-39/253, 25-26=-205/329, 23-25=-481/0. 22-23=-570/0

21-22=-910/360, 20-21=-910/360, 19-20=-1248/174, 18-19=-1745/0,

17-18=-1471/0 WFBS

6-23=-100/0, 9-21=-111/19, 10-20=-236/0, 14-18=-48/0, 2-27=-318/48, 2-26=-93/65,

3-26=-34/123, 3-25=-311/0, 7-23=-524/81 7-22=-63/371, 13-18=-821/0, 13-19=0/548, 11-19=-568/0, 11-20=0/557, 15-17=0/1846,

15-18=-1329/0, 4-25=-57/0, 8-22=-170/5 9-22=-223/375, 5-25=0/382, 5-23=-497/0

NOTES

BOT CHORD

- Unbalanced floor live loads have been considered for
- All plates are 3x3 (=) MT20 unless otherwise indicated

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27. This connection is for uplift only and does not consider lateral forces.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 20-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 17-27=-7, 1-16=-67

Concentrated Loads (lb) Vert: 16=-1084 (F=-700) May 13,2025

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

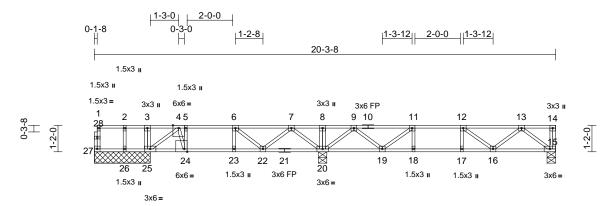
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

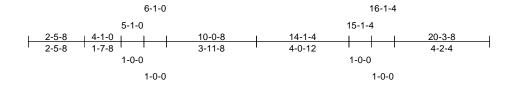


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	1F4	Floor	1	1	Job Reference (optional)	173385745

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:18 ID:8nuj2ry3wunhW4_YCX3Ps?zUhi3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:50.7 Plate Offsets (X, Y): [24:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.05	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.06	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

bracing, Except:

6-0-0 oc bracing: 20-22,19-20.

15=0-4-8, 20=0-4-8, 25=2-5-8, REACTIONS (size) 26=2-5-8, 27=2-5-8

Max Grav 15=412 (LC 5), 20=928 (LC 4),

25=313 (LC 3), 26=116 (LC 3),

27=42 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-38/0, 14-15=-25/0, 1-2=-2/0, 2-3=-2/0,

3-4=-2/0, 4-5=-404/0, 5-6=-404/0, 6-7=-244/66, 7-8=0/587, 8-9=0/587

9-11=-561/104, 11-12=-906/0, 12-13=-718/0,

13-14=0/0

BOT CHORD 26-27=0/2, 25-26=0/2, 24-25=0/315,

23-24=0/404, 22-23=0/404, 20-22=-167/41, 19-20=-248/254, 18-19=0/906, 17-18=0/906,

16-17=0/906, 15-16=0/500

3-25=-100/0. 5-24=-240/10. 6-23=-33/27. 8-20=-77/0, 11-18=0/82, 12-17=-57/0,

4-25=-395/0, 4-24=-7/310, 7-20=-615/0, 7-22=0/301, 6-22=-264/0, 9-20=-745/0, 9-19=0/453, 11-19=-517/0, 13-15=-628/0 13-16=0/283, 12-16=-237/49, 2-26=-98/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



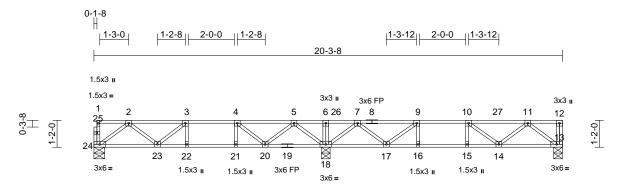
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

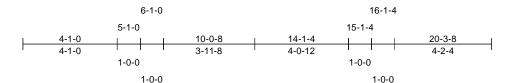
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	170005740
	1F2	Floor	4	1	Job Reference (optional)	173385746

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:18 ID:RORMEv9Y5P_?rGp_4FjaMOzemTI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:49.9

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.05	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.08	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 101 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

REACTIONS (size) 13=0-4-8, 18=0-4-8, 24=0-5-8 13=532 (LC 7), 18=1209 (LC 1),

24=311 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-17/1, 12-13=-16/3, 1-2=-1/0, 2-3=-528/0, 3-4=-623/29, 4-5=-313/201,

5-6=0/734, 6-7=0/734, 7-9=-949/0, 9-10=-1456/0, 10-11=-1059/0, 11-12=0/0 23-24=0/381, 22-23=-29/623, 21-22=-29/623,

20-21=-29/623, 18-20=-342/33, 17-18=0/487, 16-17=0/1456, 15-16=0/1456, 14-15=0/1456,

13-14=0/671

WEBS 3-22=-106/0, 4-21=0/127, 6-18=-74/0,

9-16=-3/81, 10-15=-61/23, 2-24=-476/0 2-23=-13/192, 3-23=-123/91, 5-18=-640/0, 5-20=0/421, 4-20=-487/0, 7-18=-1220/0, 7-17=0/655, 9-17=-717/0, 11-13=-842/0,

11-14=0/505. 10-14=-498/0

NOTES

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 13-24=-7, 1-26=-67, 12-27=-67

Trapezoidal Loads (lb/ft)

Vert: 26=-151-to-7=-149, 7=-149-to-8=-148, 8=-148to-9=-145, 9=-145-to-10=-141, 10=-141-to-27=-139



Page: 1

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

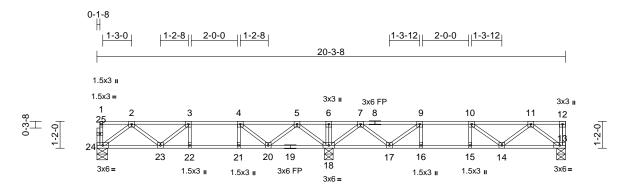
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

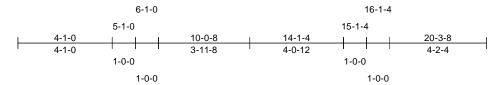


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	1700057.47
	1F1	Floor	7	1	Job Reference (optional)	173385747

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:16 ID: Xtche EvqwF9 sgunSSpqRJjzewlJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffrom Properties and Properties a

Page: 1





Scale = 1:49.9

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.05	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.06	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 101 lb	FT = 20%F, 12%E

LUMBER

LOAD CASE(S) Standard

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

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, Except:

6-0-0 oc bracing: 18-20,17-18. REACTIONS

13=0-4-8, 18=0-4-8, 24=0-5-8 13=351 (LC 7), 18=814 (LC 1),

24=340 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-24=-21/0, 12-13=-21/0, 1-2=-1/0, 2-3=-602/0, 3-4=-760/0, 4-5=-514/0, 5-6=0/462, 6-7=0/462, 7-9=-521/0,

9-10=-792/0, 10-11=-617/0, 11-12=0/0 **BOT CHORD** 23-24=0/413, 22-23=0/760, 21-22=0/760,

20-21=0/760, 18-20=-101/275,

17-18=-91/276, 16-17=0/792, 15-16=0/792,

14-15=0/792, 13-14=0/426

WEBS 3-22=-73/10, 4-21=0/93, 6-18=-71/0,

9-16=0/91, 10-15=-70/14, 2-24=-517/0, 2-23=0/245, 3-23=-204/9, 5-18=-601/0, 5-20=0/369, 4-20=-405/0, 7-18=-614/0, 7-17=0/371, 9-17=-422/0, 11-13=-534/0,

11-14=0/250, 10-14=-219/2

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.



May 13,2025

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

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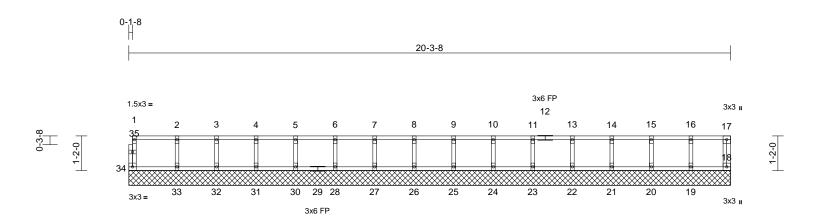
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



ſ	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	170005740
l		1FGE1	Floor Supported Gable	1	1	Job Reference (optional)	173385748

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:21 ID:3FAaEjRY1YmQ2bIgQXRSZBzewXj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.9

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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)

18=20-3-8, 19=20-3-8, 20=20-3-8, 21=20-3-8, 22=20-3-8, 23=20-3-8, 24=20-3-8, 25=20-3-8, 26=20-3-8, 26=20-3-8, 31=20-3-8, 32=20-3-8, 33=20-3-8, 31=20-3-8, 32=20-3-8, 33=20-3-8, 30=20-3-8,

34=20-3-8

Max Grav 18=44 (LC 1), 19=92 (LC 1), 20=99 (LC 1), 21=97 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98

(LC 1), 28=98 (LC 1), 30=98 (LC 1), 31=99 (LC 1), 32=95 (LC 1), 33=109 (LC 1), 34=48 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-34=-45

HORD 1-34=-45/0, 17-18=-39/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0,

11-13=-9/0, 13-14=-9/0, 14-15=-9/0, 15-16=-9/0, 16-17=-9/0

BOT CHORD 33-34=0/9, 32-33=0/9, 31-32=0/9, 30-31=0/9,

28-30=0/9, 27-28=0/9, 26-27=0/9, 25-26=0/9, 24-25=0/9, 23-24=0/9, 22-23=0/9, 21-22=0/9,

20-21=0/9, 19-20=0/9, 18-19=0/9

16-19=-85/0, 15-20=-90/0, 14-21=-89/0, 13-22=-89/0, 11-23=-89/0, 10-24=-89/0, 9-25=-89/0, 8-26=-89/0, 7-27=-89/0,

6-28=-89/0, 5-30=-89/0, 4-31=-90/0,

3-32=-86/0, 2-33=-98/0

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

NOTES

WEBS

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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-EL-1-Floor 173385749 2F25 Floor Girder 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. Fri May 09 13:48:32 ID:8mc0MWOPXz71SZzqE1a_ZszvBP3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

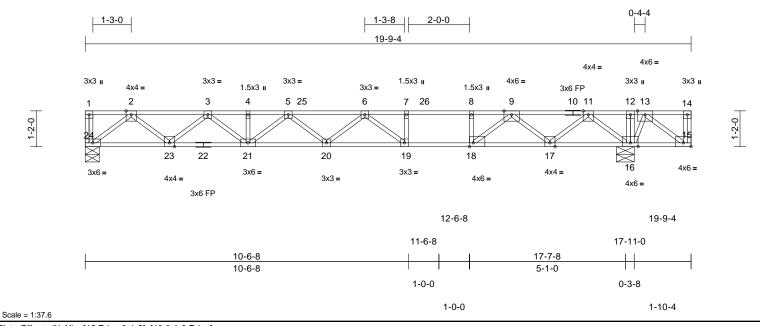


Plate Offsets (X, Y): [15:Edge,0-1-8], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-8-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.33	19-20	>641	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.49	19-20	>435	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.05	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)

WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD

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 16=0-7-0, 24=0-5-8 (size)

Max Grav 16=1904 (LC 1), 24=804 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-24=-33/0, 14-15=-844/0, 1-2=0/0,

2-3=-1694/0, 3-4=-2802/0, 4-5=-2802/0, 5-6=-3333/0, 6-7=-2902/6, 7-8=-2902/6,

8-9=-2902/6, 9-11=-1238/841, 11-12=0/1563,

12-13=0/1563, 13-14=0/0

BOT CHORD 23-24=0/1005, 21-23=0/2348, 20-21=0/3182,

19-20=0/3363, 18-19=-6/2902, 17-18=-484/2038, 16-17=-1160/513,

15-16=-1110/0

WEBS 7-19=-17/313, 8-18=-586/0, 12-16=-56/0,

2-24=-1260/0, 2-23=0/897, 3-23=-851/0, 3-21=0/580, 4-21=-66/0, 5-21=-485/0, 5-20=-27/205, 6-20=-129/160, 6-19=-901/0,

11-16=-1413/0. 11-17=0/1025. 9-17=-1152/0. 9-18=0/1386, 13-15=0/1393, 13-16=-1050/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be 5) provided sufficient to support concentrated load(s) 700 lb down at 19-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 15-24=-8, 1-25=-83, 25-26=-98, 14-26=-83

Concentrated Loads (lb) Vert: 14=-800 (F=-700)



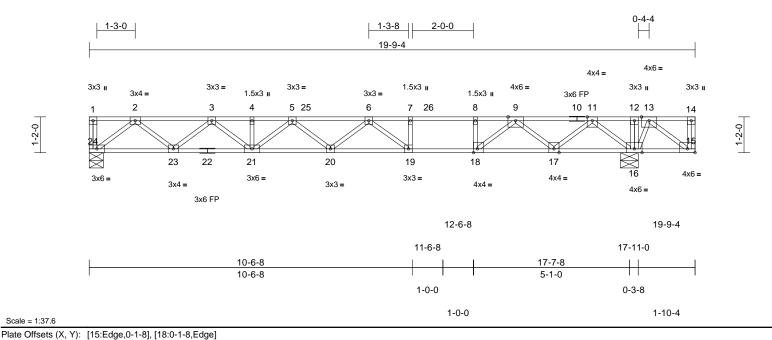
May 13,2025

Job Truss Truss Type Qty Ply Stonehaven Rev 2-EL-1-Floor 173385750 2F24A Floor 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. Fri May 09 13:48:31 ID:BhD_FilW17SRq8pm9vVfbbzvBRI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



BCDL LUMBER

Loading

TCLL

TCDL

BCLL

TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)

(psf)

40.0

10.0

0.0

5.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

WEBS 2x4 SP No.3(flat)

BRACING

FORCES

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD

bracing

REACTIONS 16=0-7-0, 24=0-5-8 (size) Max Grav 16=1937 (LC 1), 24=775 (LC 3)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-24=-33/0, 14-15=-896/0, 1-2=0/0,

2-3=-1620/0, 3-4=-2657/0, 4-5=-2657/0, 5-6=-3120/0, 6-7=-2694/214, 7-8=-2694/214,

8-9=-2694/214, 9-11=-1099/980,

11-12=0/1657, 12-13=0/1656, 13-14=0/0

23-24=0/966, 21-23=0/2239, 20-21=0/2995,

19-20=0/3129, 18-19=-214/2694, 17-18=-649/1873, 16-17=-1278/395

15-16=-1179/0

WEBS

7-19=-27/304, 8-18=-564/0, 12-16=-57/0, 2-24=-1212/0. 2-23=0/851. 3-23=-806/0. 3-21=0/534, 4-21=-70/0, 5-21=-431/25, 5-20=-61/170, 6-20=-102/187, 6-19=-867/0,

11-16=-1381/0. 11-17=0/999. 9-17=-1118/0. 9-18=0/1331, 13-15=0/1479, 13-16=-1106/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.85

0.85

0.70

in

-0.33

-0.46

0.05

(loc)

19-20

19-20

16

I/defI

>641

>465

n/a

L/d

480

360

PLATES

Weight: 103 lb

MT20

GRIP

244/190

FT = 20%F, 12%E

CAUTION, Do not erect truss backwards.

CSI

TC

BC

WB

Matrix-S

- Hanger(s) or other connection device(s) shall be 5) provided sufficient to support concentrated load(s) 700 lb down at 19-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1-8-0

1.00

1.00

NO

IRC2021/TPI2014

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 15-24=-8, 1-25=-83, 25-26=-86, 14-26=-83

Concentrated Loads (lb) Vert: 14=-852 (F=-700)



May 13,2025

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

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Job Truss Truss Type Qty Ply Stonehaven Rev 2-EL-1-Floor 173385751 2F24 Floor 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. Fri May 09 13:48:31 ID:BhD_FilW17SRq8pm9vVfbbzvBRI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

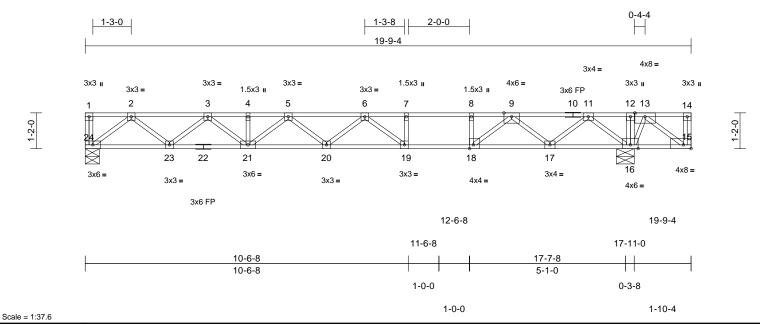


Plate Offsets (X, Y): [15:Edge,0-1-8], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.26	19-20	>801		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC		Vert(CT)	-0.26	19-20	>596	360	WIIZU	244/190
				-		` ′						
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)

2x4 SP No.3(flat) WEBS

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, Except:

10-0-0 oc bracing: 23-24,21-23.

REACTIONS 16=0-7-0, 24=0-5-8 (size)

Max Grav 16=1981 (LC 1), 24=585 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-24=-26/0, 14-15=-1109/0, 1-2=0/0,

2-3=-1209/0, 3-4=-1953/0, 4-5=-1953/0, 5-6=-2245/142, 6-7=-1795/649,

7-8=-1795/649, 8-9=-1795/649, 9-11=-420/1400, 11-12=0/2024, 12-13=0/2023, 13-14=0/0

BOT CHORD 23-24=0/727, 21-23=0/1662, 20-21=-57/2180,

19-20=-303/2207, 18-19=-649/1795, 17-18=-1082/1078, 16-17=-1678/0,

15-16=-1457/0

WEBS 7-19=0/288, 8-18=-494/0, 12-16=-52/0,

2-24=-913/0, 2-23=0/627, 3-23=-590/14, 3-21=-60/372, 4-21=-58/0, 5-21=-289/93 5-20=-110/90, 6-20=-24/227, 6-19=-806/0 11-16=-1159/0, 11-17=0/850, 9-17=-964/0, 9-18=0/1173, 13-15=0/1828, 13-16=-1312/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 19-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 15-24=-7. 1-14=-67 Concentrated Loads (lb) Vert: 14=-1075 (F=-700)



May 13,2025

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

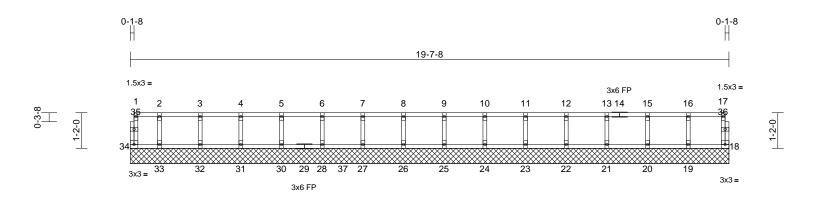
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-EL-1-Floor	
	1FGE6	Floor Supported Gable	1	1	Job Reference (optional)	173385752

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:22 ID:aNITxbud2ohdoJUTQTIm3azew7J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 82 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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)

18=19-7-8, 19=19-7-8, 20=19-7-8, 21=19-7-8, 22=19-7-8, 23=19-7-8, 24=19-7-8, 25=19-7-8, 26=19-7-8, 27=19-7-8, 28=19-7-8, 30=19-7-8, 31=19-7-8, 32=19-7-8, 33=19-7-8,

34=19-7-8

Max Grav 18=53 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=146 (LC 1), 25=147 (LC 1), 26=144 (LC 1), 27=158 (LC 1), 28=158 (LC 1), 30=145 (LC 1), 31=146 (LC 1), 32=152 (LC 1), 33=120 (LC 1), 34=37 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-34=-32/0, 17-18=-49/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0, 13-15=-7/0,

15-16=-7/0, 16-17=-7/0

BOT CHORD 33-34=0/7, 32-33=0/7, 31-32=0/7, 30-31=0/7,

28-30=0/7, 27-28=0/7, 26-27=0/7, 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7,

20-21=0/7, 23-24=0/7, 22-23=0/7, 2

WEBS 16-19=-132/0, 15-20=-134/0, 13-21=-133/0,

12-22=-133/0, 11-23=-133/0, 10-24=-133/0, 9-25=-133/0, 8-26=-133/0, 7-27=-133/0, 6-28=-133/0, 5-30=-134/0, 4-31=-132/0,

3-32=-138/0, 2-33=-112/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 18-34=-10, 1-17=-100

Concentrated Loads (lb)

Vert: 1=-3, 37=-19



May 13,2025

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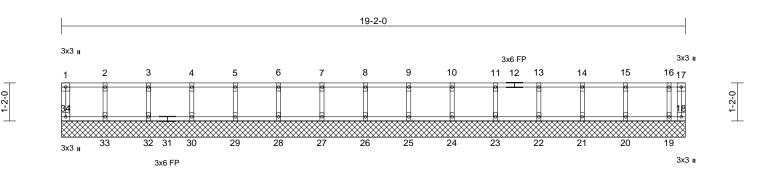
818 Soundside Road Edenton, NC 27932

Γ,	Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
l		2FGE2	Floor Supported Gable	1	1	Job Reference (optional)	173385753

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries. Inc. Fri May 09 13:48:34 ID:DtA4ZIFbo1kC2a8QQ6izkTy8MTw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.4

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 82 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

WEBS

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)

18=19-2-0, 19=19-2-0, 20=19-2-0, 21=19-2-0, 22=19-2-0, 23=19-2-0, 24=19-2-0, 25=19-2-0, 26=19-2-0, 27=19-2-0, 28=19-2-0, 29=19-2-0, 30=19-2-0, 32=19-2-0, 33=19-2-0,

34=19-2-0

Max Grav 18=7 (LC 1), 19=80 (LC 1), 20=122 (LC 1), 21=116 (LC 1), 22=118 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1),

29=117 (LC 1), 30=117 (LC 1), 32=117 (LC 1), 33=118 (LC 1), 34=47 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-34=-44/0, 17-18=0/0, 1-2=-5/0, 2-3=-5/0,

3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0, 11-13=-5/0, 13-14=-5/0, 14-15=-5/0,

15-16=-5/0, 16-17=-5/0

33-34=0/5, 32-33=0/5, 30-32=0/5, 29-30=0/5, BOT CHORD

28-29=0/5, 27-28=0/5, 26-27=0/5, 25-26=0/5, 24-25=0/5, 23-24=0/5, 22-23=0/5, 21-22=0/5, 20-21=0/5. 19-20=0/5. 18-19=0/5

2-33=-106/0, 3-32=-107/0, 4-30=-107/0,

5-29=-107/0, 6-28=-107/0, 7-27=-107/0, 8-26=-107/0, 9-25=-107/0, 10-24=-107/0, 11-23=-107/0, 13-22=-107/0, 14-21=-106/0,

15-20=-111/0, 16-19=-80/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1)
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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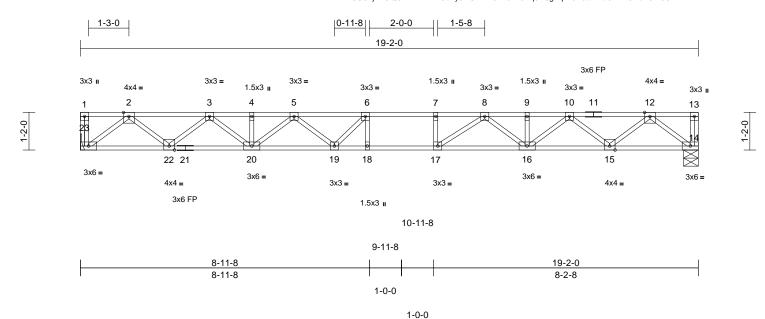
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Truss Type Job Truss Qty Ply Stonehaven Rev 2-EL-1-Floor 173385754 2F10 Floor Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:27 ID:1UUUhjw1OQCBhH?2nEBObZy8MUM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.7

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.32	18	>715	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.44	18	>522	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 21-14:2x4 SP SS

(flat)

WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-7 oc purlins, except end verticals.

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

REACTIONS (size) 14=0-5-8, 23= Mechanical Max Grav 14=832 (LC 1), 23=832 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-32/0, 13-14=-31/0, 1-2=0/0,

2-3=-1775/0, 3-4=-2992/0, 4-5=-2992/0, 5-6=-3617/0, 6-7=-3732/0, 7-8=-3732/0,

8-9=-2995/0, 9-10=-2995/0, 10-12=-1776/0,

12-13=0/0

BOT CHORD 22-23=0/1042, 20-22=0/2480, 19-20=0/3420,

18-19=0/3732, 17-18=0/3732, 16-17=0/3402,

15-16=0/2478, 14-15=0/1043

WEBS 6-18=-191/144, 7-17=-224/0, 2-23=-1308/0,

2-22=0/954, 3-22=-918/0, 3-20=0/654, 4-20=-50/0, 5-20=-546/0, 5-19=0/397, 6-19=-451/146, 12-14=-1309/0, 12-15=0/953, 10-15=-914/0, 10-16=0/660, 9-16=-77/0,

8-16=-521/0, 8-17=0/642

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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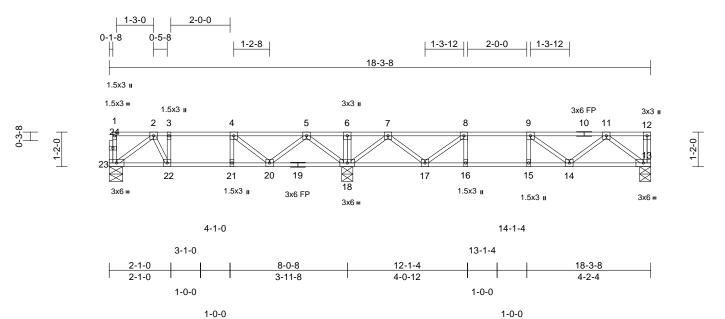
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Ply Job Truss Truss Type Qty Stonehaven Rev 2-EL-1-Floor 173385755 1F3 Floor 12 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:18 ID:fXB0_hEqIRbRTVQ0EDjc8WzeweR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:38.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.06	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.08	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%F, 12%E

LUMBER

LOAD CASE(S) Standard

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing, Except:

6-0-0 oc bracing: 18-20,17-18.

REACTIONS (size) 13=0-4-8, 18=0-4-8, 23=0-5-8

13=413 (LC 4), 18=933 (LC 1),

23=294 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-23=-49/0, 12-13=-25/0, 1-2=-3/0, 2-3=-463/0, 3-4=-463/0, 4-5=-307/54, 5-6=0/684, 6-7=0/684, 7-8=-567/97, 8-9=-910/0, 9-11=-720/0, 11-12=0/0

BOT CHORD 22-23=0/334, 21-22=0/463, 20-21=0/463, 18-20=-168/108, 17-18=-239/261,

16-17=0/910, 15-16=0/910, 14-15=0/910,

13-14=0/501

WEBS 3-22=-206/10, 4-21=-34/33, 6-18=-78/0, 8-16=0/126, 9-15=-101/2, 2-23=-415/0,

2-22=-3/289, 5-18=-646/0, 5-20=0/341, 4-20=-318/0, 7-18=-747/0, 7-17=0/456, 8-17=-522/0, 11-13=-629/0, 11-14=0/284,

9-14=-239/46

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.



Page: 1

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

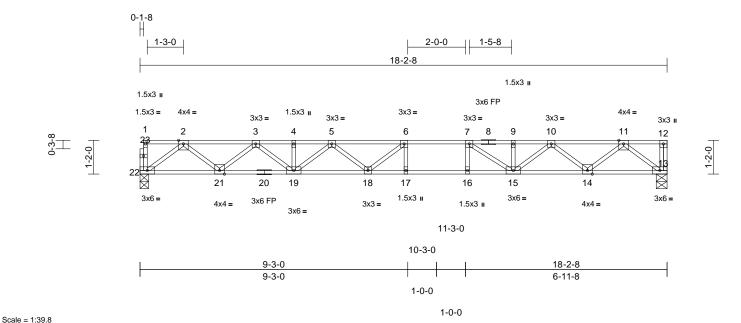
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F6	Floor	5	1	Job Reference (optional)	173385756

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:25 ID:hoC1Cq3YZ6jU77wMUIPC55y8MUA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.29	17-18	>733	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.40	17-18	>534	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS

(flat)

WEBS 2x4 SP No.3(flat) 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-1 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 13=0-4-8, 22=0-3-8

Max Grav 13=790 (LC 1), 22=785 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-29/0, 12-13=-32/0, 1-2=-2/0,

2-3=-1670/0, 3-4=-2778/0, 4-5=-2778/0, 5-6=-3298/0, 6-7=-3318/0, 7-9=-2765/0, 9-10=-2765/0, 10-11=-1673/0, 11-12=0/0

BOT CHORD 21-22=0/987, 19-21=0/2324, 18-19=0/3178, 17-18=0/3318, 16-17=0/3318, 15-16=0/3318,

14-15=0/2320, 13-14=0/988

6-17=-217/72, 7-16=-39/221, 2-22=-1236/0, **WEBS**

2-21=0/890, 3-21=-851/0, 3-19=0/579, 4-19=-30/0, 5-19=-511/0, 5-18=0/301, 6-18=-336/213, 11-13=-1240/0, 11-14=0/891, 10-14=-843/0, 10-15=0/567, 9-15=-100/88,

7-15=-848/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



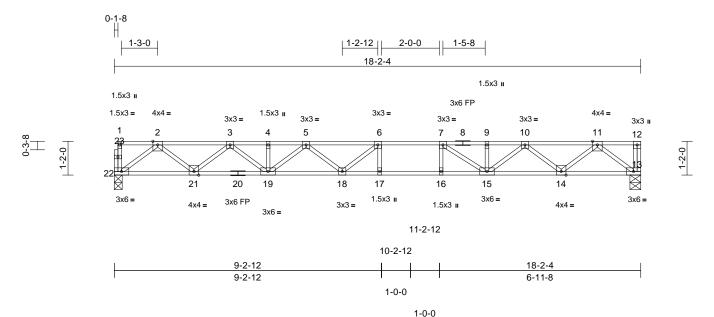
May 13,2025



Ply Truss Type Job Truss Qty Stonehaven Rev 2-FI -1-Floor 173385757 2F5 Floor 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. Fri May 09 13:48:25 ID:Dbee?U2wpobdWzL9x2uzYuy8MUB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:39.8

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.29	17-18	>736	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.40	17-18	>537	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS **BOT CHORD**

(flat)

WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-7-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 13=0-4-8, 22=0-3-4

Max Grav 13=789 (LC 1), 22=784 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-29/0, 12-13=-32/0, 1-2=-2/0,

2-3=-1668/0, 3-4=-2773/0, 4-5=-2773/0, 5-6=-3292/0, 6-7=-3311/0, 7-9=-2761/0, 9-10=-2761/0, 10-11=-1671/0, 11-12=0/0

BOT CHORD 21-22=0/985, 19-21=0/2321, 18-19=0/3171, 17-18=0/3311, 16-17=0/3311, 15-16=0/3311,

14-15=0/2317, 13-14=0/987

6-17=-218/73, 7-16=-39/220, 2-22=-1234/0, **WEBS**

2-21=0/889, 3-21=-849/0, 3-19=0/578, 4-19=-31/0, 5-19=-508/0, 5-18=0/301, 6-18=-335/213, 11-13=-1239/0, 11-14=0/890, 10-14=-841/0, 10-15=0/566, 9-15=-101/88,

7-15=-845/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



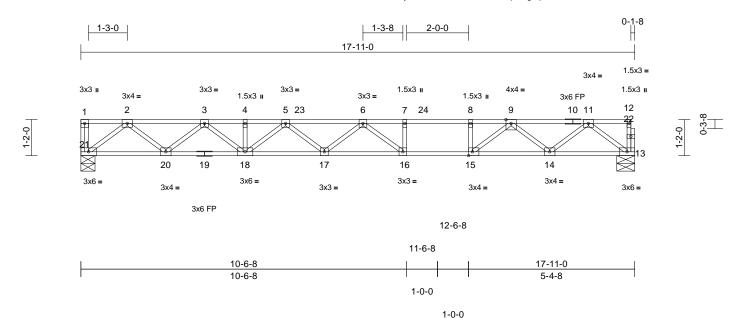
May 13,2025



Ply Truss Type Job Truss Qty Stonehaven Rev 2-FL-1-Floor 173385758 2F26 Floor 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. Fri May 09 13:48:32 ID:ehsevcSoehPMAXWyOkEbQdzvFV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.3

Plate Offsets (X, Y): [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.26	16-17	>800	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.40	16-17	>532	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 90 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 10-12:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 19-13:2x4 SP SS

(flat)

2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS**

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 13=0-7-0, 21=0-5-8 (size)

Max Grav 13=671 (LC 1), 21=674 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD

1-21=-27/0, 12-13=-23/1, 1-2=0/0,

2-3=-1432/0, 3-4=-2395/0, 4-5=-2395/0, 5-6=-2890/0, 6-7=-2641/0, 7-8=-2641/0,

8-9=-2641/0, 9-11=-1401/0, 11-12=-1/0 BOT CHORD

20-21=0/844, 18-20=0/1993, 17-18=0/2737, 16-17=0/2953, 15-16=0/2641, 14-15=0/2005,

13-14=0/838

WEBS 7-16=-42/168, 8-15=-387/0, 2-21=-1059/0,

2-20=0/766, 3-20=-729/0, 3-18=0/513, 4-18=-49/0, 5-18=-437/0, 5-17=0/205, 6-17=-154/0, 6-16=-511/39, 11-13=-1050/0, 11-14=0/732, 9-14=-786/0, 9-15=0/901

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 13-21=-7, 1-23=-67, 23-24=-80, 12-24=-67



May 13,2025

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

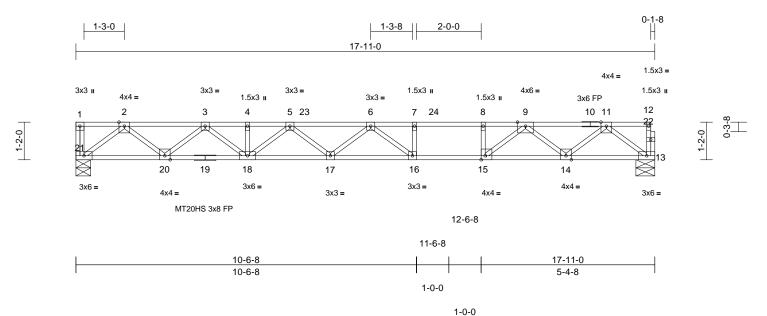
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Ply Truss Type Job Truss Qty Stonehaven Rev 2-EL-1-Floor 173385759 2F26A Floor 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. Fri May 09 13:48:32 ID:ehsevcSoehPMAXWyOkEbQdzvFV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.7

Plate Offsets	(X,	Y):	[15:0-	1-8,Edge	1
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		i		1	-							
Loading	(psf)	Spacing	1-8-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.33	16-17	>641	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.49	16-17	>431	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		l ' '					Weight: 90 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat)

2x4 SP No.2(flat) *Except* 19-13:2x4 SP SS BOT CHORD

(flat)

2x4 SP No.3(flat) WFBS OTHERS 2x4 SP No.3(flat)

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) 13=0-7-0, 21=0-5-8

Max Grav 13=834 (LC 1), 21=838 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-21=-33/0, 12-13=-26/3, 1-2=0/0,

2-3=-1780/0, 3-4=-2973/0, 4-5=-2973/0, 5-6=-3583/0, 6-7=-3276/0, 7-8=-3276/0, 8-9=-3276/0, 9-11=-1742/0, 11-12=-2/0

BOT CHORD 20-21=0/1050, 18-20=0/2476, 17-18=0/3395, 16-17=0/3660, 15-16=0/3276, 14-15=0/2489,

13-14=0/1046

WEBS 7-16=-55/208, 8-15=-480/0, 2-21=-1317/0,

2-20=0/951, 3-20=-906/0, 3-18=0/635, 4-18=-62/0, 5-18=-539/0, 5-17=0/251, 6-17=-190/0. 6-16=-630/58. 11-13=-1311/0.

11-14=0/906, 9-14=-972/0, 9-15=0/1114

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 13-21=-8, 1-23=-83, 23-24=-98, 12-24=-83



May 13,2025

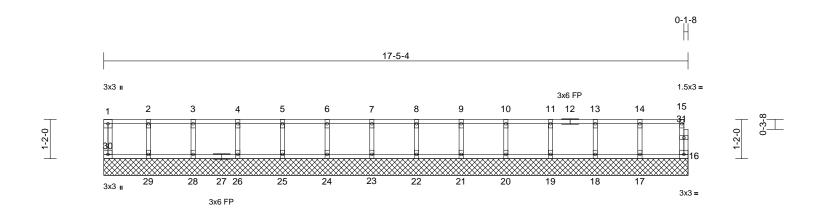


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	170005700	
	2FGE4	Floor Supported Gable	1	1	Job Reference (optional)	173385760	

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:34 ID: dSrCBKIT5y6nv2t? 6FFgM5y8MTt-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the propert

Page: 1



Scale = 1:34.4

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

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

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)

16=17-5-4, 17=17-5-4, 18=17-5-4, 19=17-5-4, 20=17-5-4, 21=17-5-4, 22=17-5-4, 23=17-5-4, 24=17-5-4, 25=17-5-4, 26=17-5-4, 28=17-5-4,

29=17-5-4, 30=17-5-4 Max Grav 16=41 (LC 1), 17=100 (LC 1),

18=97 (LC 1), 19=98 (LC 1), 20=98 (LC 1), 21=99 (LC 1), 22=101 (LC 1), 23=101 (LC 1), 24=99 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 28=99 (LC 1), 29=94 (LC 1), 30=42 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-30=-38/0, 15-16=-38/0, 1-2=-8/0, 2-3=-8/0, 3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0,

7-8=-8/0, 8-9=-8/0, 9-10=-8/0, 10-11=-8/0, 11-13=-8/0, 13-14=-8/0, 14-15=-8/0

29-30=0/8, 28-29=0/8, 26-28=0/8, 25-26=0/8,

24-25=0/8, 23-24=0/8, 22-23=0/8, 21-22=0/8, 20-21=0/8, 19-20=0/8, 18-19=0/8, 17-18=0/8,

16-17=0/8

WEBS 2-29=-86/0. 3-28=-90/0. 4-26=-89/0.

> 5-25=-89/0, 6-24=-90/0, 7-23=-92/0, 8-22=-92/0, 9-21=-90/0, 10-20=-89/0

11-19=-89/0, 13-18=-89/0, 14-17=-91/0

NOTES

BOT CHORD

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- 2) Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 16-30=-7, 1-6=-67, 6-9=-69, 9-15=-67



May 13,2025

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)

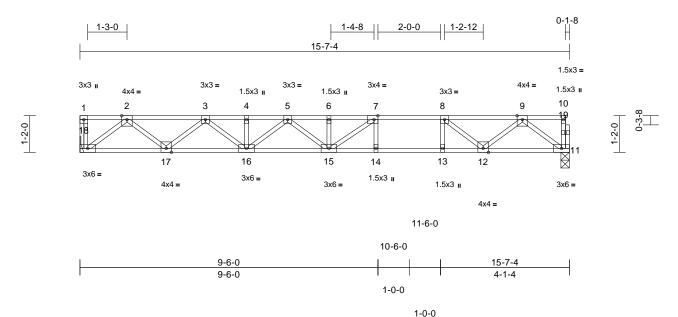


Truss Type Job Truss Qty Ply Stonehaven Rev 2-EL-1-Floor 173385761 2F16 Floor 2 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:28 ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.7

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

		i			-						i	
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.28	14-15	>654	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.38	14-15	>480	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP SS(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

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) 11=0-3-4, 18= Mechanical Max Grav 11=838 (LC 1), 18=844 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-39/0, 10-11=-67/0, 1-2=0/0,

2-3=-1730/0, 3-4=-2776/0, 4-5=-2776/0, 5-6=-3178/0, 6-7=-3178/0, 7-8=-2686/0,

8-9=-1743/0, 9-10=-4/0

BOT CHORD 17-18=0/1048, 16-17=0/2372, 15-16=0/3036,

14-15=0/2686, 13-14=0/2686, 12-13=0/2686,

11-12=0/992

WEBS 7-14=-316/0, 8-13=0/373, 2-18=-1315/0,

2-17=0/887, 3-17=-837/0, 3-16=0/516, 4-16=-109/0 5-16=-332/0 5-15=0/197 9-11=-1240/0, 9-12=0/978, 8-12=-1211/0,

6-15=-317/0, 7-15=-55/744

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

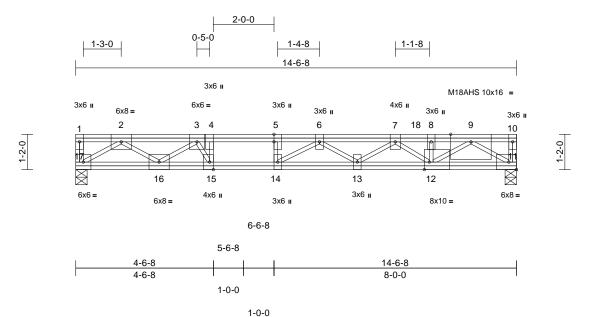




Ply Job Truss Truss Type Qty Stonehaven Rev 2-EL-1-Floor 173385762 1FGR1 Floor Girder Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:23 ID:zlpeZ242xdQ8wBhV8VgWQZzewHO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38

Plate Offsets (X, Y):	[5:0-3-0,Edge], [12:0-2-0,	,Edge], [15:0-3-0,Edge]
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		i		1							i	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.06	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.28	13-14	>603	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		, ,					Weight: 114 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP SS(flat)

2x4 SP No.3(flat) *Except* 11-9,12-9:2x4 SP

No.2(flat)

BRACING TOP CHORD

WEBS

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) 11=0-4-8, 17=0-4-8

Max Grav 11=2053 (LC 1), 17=1416 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-34/0, 10-11=-66/0, 1-2=0/0, 2-3=-3656/0, 3-4=-5936/0, 4-5=-5936/0,

5-6=-5936/0, 6-7=-6735/0, 7-8=-5731/0,

8-9=-5731/0, 9-10=0/0

BOT CHORD 16-17=0/2029, 15-16=0/5417, 14-15=0/5936,

13-14=0/6532, 12-13=0/6799, 11-12=0/2925 **WEBS** 4-15=-859/0, 5-14=0/242, 2-17=-2439/0,

2-16=0/2018, 3-16=-2183/0, 3-15=0/1263,

9-11=-3516/0. 7-13=-148/0. 6-13=0/319. 6-14=-814/0, 8-12=-1172/0, 7-12=-1349/0,

9-12=0/3422

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 11-17=-7, 1-10=-67 Concentrated Loads (lb) Vert: 3=-696, 18=-1725

May 13,2025

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

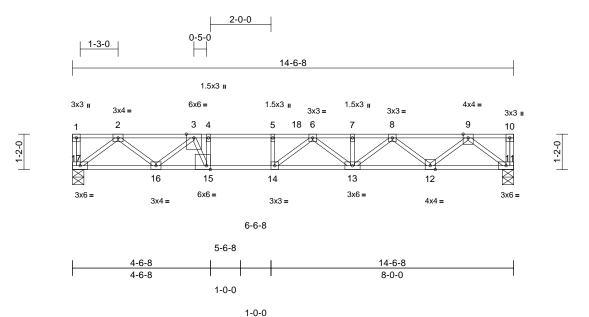
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Ply Truss Type Job Truss Qty Stonehaven Rev 2-EL-1-Floor 173385763 1F9 Floor 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. Fri May 09 13:48:19 ID:5NHi6gshRC7IjyEgOUSRSgzewO7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:38

Plate Offsets	(X,	Y):	[15:0-1-8,Edge]
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Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.34	13-14	>500	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LUMBER TOP CHORD 2x4 SP DSS(flat) 2x4 SP SS(flat) **BOT CHORD**

2x4 SP No.3(flat)

BRACING

WEBS

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 11=0-4-8, 17=0-4-8 (size)

Max Grav 11=864 (LC 1), 17=779 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-30/0, 10-11=-32/0, 1-2=0/0,

2-3=-1613/0, 3-4=-2807/0, 4-5=-2807/0, 5-6=-2807/0, 6-7=-2823/0, 7-8=-2823/0,

8-9=-1703/0, 9-10=0/0

BOT CHORD 16-17=0/964, 15-16=0/2362, 14-15=0/2807,

13-14=0/3151, 12-13=0/2397, 11-12=0/1004 4-15=-886/0, 5-14=-13/166, 2-17=-1210/0,

2-16=0/845, 3-16=-974/0, 3-15=0/1253, 9-11=-1259/0. 9-12=0/910. 8-12=-903/0.

> 8-13=0/544. 7-13=0/48. 6-13=-432/0. 6-14=-558/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 11-17=-8, 1-10=-80 Concentrated Loads (lb) Vert: 11=-58, 8=-47, 18=-280



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

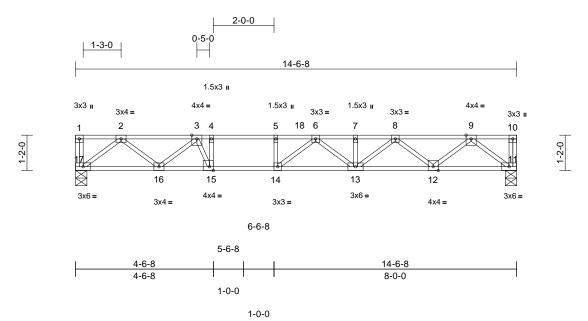
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Ply Truss Type Job Truss Qty Stonehaven Rev 2-EL-1-Floor 173385764 1F10 Floor 3 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. Fri May 09 13:48:20 ID:wLDF39ZR0jJD2i5dEyzpGhzewNE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38

Plate Offsets	(X,	Y):	[15:0-	1-8,Edge]
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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.29	13-14	>602	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

Vert: 11-17=-8, 1-10=-80

Vert: 11=-58, 8=-223, 18=-28

Concentrated Loads (lb)

LUMBER TOP CHORD 2x4 SP SS(flat) 2x4 SP SS(flat) **BOT CHORD**

2x4 SP No.3(flat)

BRACING

WEBS

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 11=0-4-8, 17=0-4-8 (size)

Max Grav 11=864 (LC 1), 17=703 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-30/0, 10-11=-32/0, 1-2=0/0,

2-3=-1429/0, 3-4=-2400/0, 4-5=-2400/0, 5-6=-2400/0, 6-7=-2603/0, 7-8=-2603/0,

8-9=-1703/0, 9-10=0/0

BOT CHORD 16-17=0/866, 15-16=0/2060, 14-15=0/2400,

13-14=0/2678, 12-13=0/2391, 11-12=0/1005 4-15=-710/0, 5-14=-16/159, 2-17=-1087/0,

2-16=0/733, 3-16=-821/0, 3-15=0/1000, 9-11=-1261/0. 9-12=0/908. 8-12=-895/0. 8-13=0/272, 7-13=-37/0, 6-13=-111/0,

6-14=-474/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

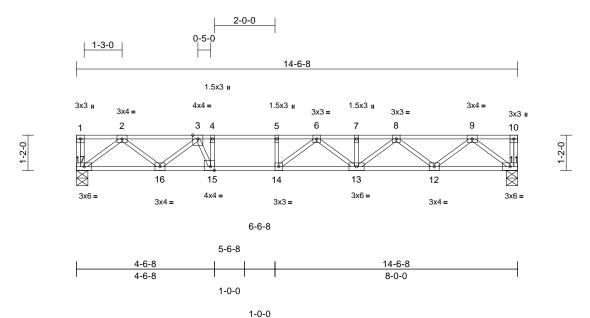
Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)



Ply Truss Type Job Truss Qty Stonehaven Rev 2-EL-1-Floor 173385765 1F12 Floor 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. Fri May 09 13:48:20 ID:6XV6eAW?P_G?1rdpM2uKzLzewM?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38

Plate Offsets (X, Y): [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.21	13-14	>820	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

Vert: 11-17=-8, 1-10=-80 Concentrated Loads (lb)

Vert: 3=-141

LUMBER TOP CHORD 2x4 SP SS(flat)

2x4 SP SS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

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.

(size)

REACTIONS 11=0-4-8, 17=0-4-8

Max Grav 11=667 (LC 1), 17=732 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-17=-31/0, 10-11=-31/0, 1-2=0/0,

2-3=-1512/0, 3-4=-2332/0, 4-5=-2332/0, 5-6=-2332/0, 6-7=-2191/0, 7-8=-2191/0,

8-9=-1359/0, 9-10=0/0

BOT CHORD 16-17=0/907, 15-16=0/2138, 14-15=0/2332,

13-14=0/2374, 12-13=0/1874, 11-12=0/825 4-15=-470/0, 5-14=-138/37, 2-17=-1138/0, 2-16=0/787, 3-16=-815/0, 3-15=0/650,

9-11=-1035/0, 9-12=0/695, 8-12=-671/0, 8-13=0/405, 7-13=-59/0, 6-13=-250/0,

6-14=-173/275

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)



May 13,2025

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

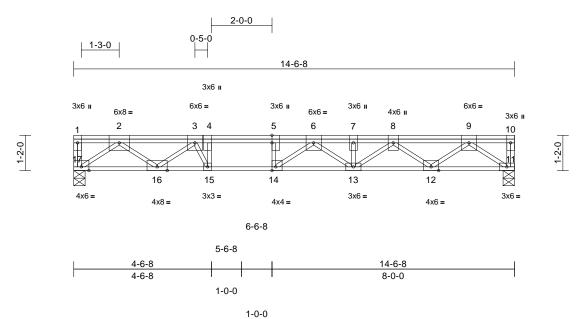
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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-EL-1-Floor	
	1F13	Floor	2	1	Job Reference (optional)	173385766

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:21 ID:LY3x63qJHzXJ8rdptVMQ0qzewLb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.70	Vert(LL)	-0.11	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.23	14-15	>739	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER TOP CHORD 2x4 SP No.2(flat) 2x4 SP SS(flat) **BOT CHORD**

2x4 SP No.3(flat)

BRACING

WEBS

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) 11=0-4-8, 17=0-4-8

Max Grav 11=926 (LC 1), 17=1429 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-39/0, 10-11=-39/0, 1-2=0/0,

2-3=-3450/0, 3-4=-4772/0, 4-5=-4772/0, 5-6=-4772/0, 6-7=-3680/0, 7-8=-3680/0,

8-9=-2124/0, 9-10=0/0

BOT CHORD 16-17=0/1938, 15-16=0/4910, 14-15=0/4772, 13-14=0/4181, 12-13=0/2983, 11-12=0/1233

2-17=-2379/0, 2-16=0/1921, 3-16=-1855/0, 3-15=-791/0, 9-11=-1513/0, 9-12=0/1132,

8-12=-1090/0, 8-13=0/870, 7-13=-140/0, 6-13=-625/0, 6-14=0/1092, 4-15=0/638,

5-14=-566/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 11-17=-8, 1-10=-80 Concentrated Loads (lb) Vert: 3=-1097





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-EL-1-Floor	
	1F11	Floor	4	1	Job Reference (optional)	173385767

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:20 ID:OLMv_xB3mhsqHi3dHtv?NfzewMQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

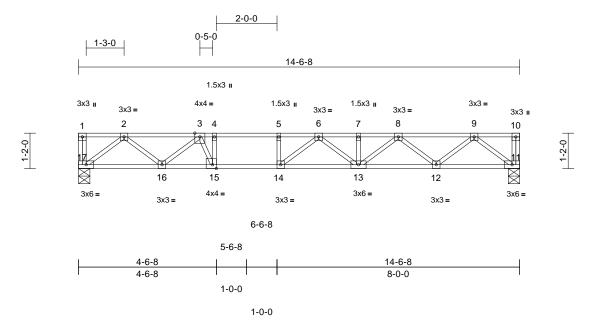


Plate Offsets (X, Y): [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.21	13-14	>803	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) BOT CHORD 2x4 SP SS(flat) 2x4 SP No.3(flat) WEBS

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) 11=0-4-8, 17=0-4-8

Max Grav 11=629 (LC 1), 17=629 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-31/0, 10-11=-31/0, 1-2=0/0,

2-3=-1250/0, 3-4=-2010/0, 4-5=-2010/0, 5-6=-2010/0, 6-7=-2003/0, 7-8=-2003/0,

8-9=-1262/0, 9-10=0/0

BOT CHORD 16-17=0/771, 15-16=0/1767, 14-15=0/2010, 13-14=0/2137, 12-13=0/1734, 11-12=0/774

4-15=-550/0, 5-14=-93/82, 2-17=-967/0, 2-16=0/624, 3-16=-673/0, 3-15=0/767,

9-11=-971/0, 9-12=0/635, 8-12=-614/0, 8-13=0/344, 7-13=-52/0, 6-13=-186/0,

6-14=-280/168

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



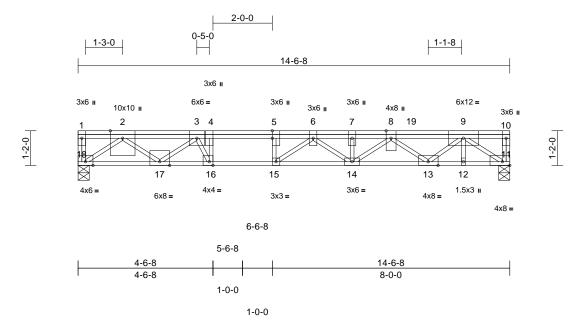
May 13,2025



Truss Type Job Truss Qty Ply Stonehaven Rev 2-EL-1-Floor 173385768 1F14 Floor 8 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. Fri May 09 13:48:21 ID:1XsRYEImOL1ywYKj?VTyTezewFq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.8

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

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.10	14-15	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.30	14-15	>565	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.08	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 12%E

LUMBER

WEBS

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP SS(flat)

2x4 SP No.3(flat) *Except* 17-2:2x4 SP No.2

BRACING

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

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

bracing

REACTIONS (size) 11=0-4-8, 18=0-4-8

Max Grav 11=1597 (LC 1), 18=1598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-43/0, 10-11=0/52, 1-2=0/0, 2-3=-3886/0, 3-4=-5766/0, 4-5=-5766/0,

5-6=-5766/0, 6-7=-5399/0, 7-8=-5399/0,

8-9=-3742/0, 9-10=0/0

BOT CHORD 17-18=0/2167, 16-17=0/5585, 15-16=0/5766,

14-15=0/5661, 13-14=0/5179, 12-13=0/2353,

11-12=0/2353

2-18=-2660/0, 2-17=0/2184, 3-17=-2158/0,

3-16=-62/600, 9-11=-2847/0, 8-14=0/274, 7-14=0/106, 6-14=-328/0, 6-15=-2/482, 8-13=-1825/0, 9-12=-2/0, 9-13=0/1801,

4-16=-510/43, 5-15=-251/4

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 11-18=-8, 1-10=-80 Concentrated Loads (lb)

Vert: 3=-1062, 19=-875



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

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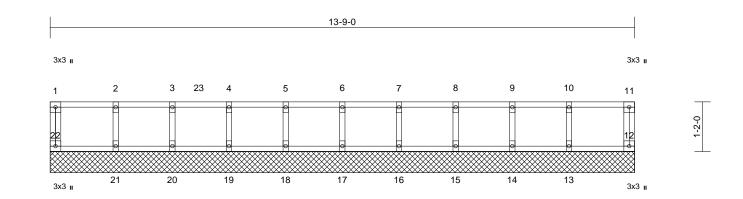
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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-EL-1-Floor	
	1FGE7	Floor Supported Gable	1	1	Job Reference (optional)	173385769

Structural LLC Thurmont MD - 21788

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:22 ID:ptwlxP?nVUSaVdL3yO1oM5zewEv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:27.1

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 59 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

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)

12=13-9-0, 13=13-9-0, 14=13-9-0, 15=13-9-0, 16=13-9-0, 17=13-9-0, 18=13-9-0, 19=13-9-0, 20=13-9-0,

21=13-9-0, 22=13-9-0

Max Grav 12=63 (LC 1), 13=123 (LC 1), 14=730 (LC 1), 15=124 (LC 1), 16=109 (LC 1), 17=141 (LC 1), 18=28 (LC 1), 19=538 (LC 1),

20=594 (LC 1), 21=32 (LC 1), 22=78 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-73/0, 11-12=-56/0, 1-2=-16/0,

2-3=-16/0, 3-4=-16/0, 4-5=-16/0, 5-6=-16/0, 6-7=-16/0, 7-8=-16/0, 8-9=-16/0, 9-10=-16/0,

10-11=-16/0

BOT CHORD 21-22=0/16, 20-21=0/16, 19-20=0/16,

18-19=0/16, 17-18=0/16, 16-17=0/16, 15-16=0/16, 14-15=0/16, 13-14=0/16,

12-13=0/16

WEBS 6-17=-130/0, 5-18=-17/0, 4-19=-527/0,

3-20=-584/0, 2-21=-19/0, 7-16=-99/0, 8-15=-113/0, 9-14=-718/0, 10-13=-115/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated
- Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.

- 5) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 12-22=-8, 1-11=-80

Concentrated Loads (lb) Vert: 9=-620, 23=-753

May 13,2025

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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.

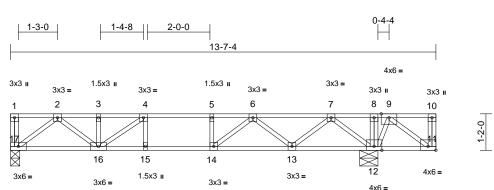
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	2F22	Floor	2	1	Job Reference (optional)	173385770

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:30 ID:KqP897?Qla4B1M1OiCp1O2y8MUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



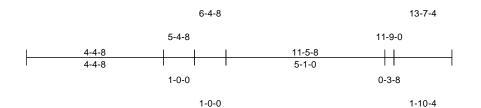


Plate Offsets (X, Y): [11:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	0.09	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	0.11	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:36.8

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

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 12=0-7-0, 17=0-3-8 (size)

Max Uplift 17=-26 (LC 4)

Max Grav 12=1495 (LC 1), 17=371 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-41/0, 10-11=-830/0, 1-2=0/0,

2-3=-714/101, 3-4=-714/101, 4-5=-876/404,

5-6=-876/404, 6-7=-364/997, 7-8=0/1531,

8-9=0/1531, 9-10=0/0

BOT CHORD 16-17=-53/430, 15-16=-404/876,

14-15=-404/876, 13-14=-738/690, 12-13=-1231/25. 11-12=-1093/0

WFBS 4-15=-136/31, 5-14=-268/0, 8-12=-43/0, 2-17=-539/66, 2-16=-62/362, 7-12=-845/0,

7-13=0/566, 6-13=-590/0, 6-14=0/639, 9-11=0/1371, 9-12=-1014/0, 3-16=-184/17,

4-16=-272/369

NOTES

- Unbalanced floor live loads have been considered for this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 13-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 11-17=-7. 1-10=-67 Concentrated Loads (lb) Vert: 10=-796 (F=-700)



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

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



Truss Type Job Truss Qty Ply Stonehaven Rev 2-EL-1-Floor 173385771 2F22A Floor 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. Fri May 09 13:48:30 ID:KqP897?Qla4B1M1OiCp1O2y8MUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

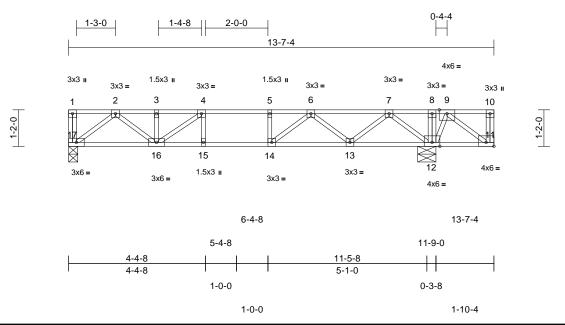


Plate Offsets (X, Y): [11:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	0.09	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:36.8

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

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 12=0-7-0, 17=0-3-8 (size)

Max Uplift 17=-33 (LC 4)

Max Grav 12=3816 (LC 1), 17=365 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-41/0, 10-11=-840/0, 1-2=0/0,

2-3=-699/116, 3-4=-699/116, 4-5=-845/436,

5-6=-845/436, 6-7=-311/1050, 7-8=0/1608,

8-9=0/1565, 9-10=0/0

BOT CHORD 16-17=-61/422, 15-16=-436/845,

14-15=-436/845, 13-14=-784/644, 12-13=-1289/0. 11-12=-1106/0

WFBS 4-15=-141/26, 5-14=-276/0, 8-12=-2303/0,

2-17=-529/76, 2-16=-70/354, 7-12=-868/0, 7-13=0/572, 6-13=-599/0, 6-14=0/658

9-11=0/1387, 9-12=-1065/0, 3-16=-188/13,

4-16=-251/389

NOTES

- Unbalanced floor live loads have been considered for this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 13-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 11-17=-7. 1-10=-67

Concentrated Loads (lb)

Vert: 10=-810 (F=-700), 8=-2300



May 13,2025



Ply Truss Type Job Truss Qty Stonehaven Rev 2-EL-1-Floor 173385772 2F21 Floor Girder 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. Fri May 09 13:48:30 ID:serlxn_o_GyKPCSC8Vlorqy8MUG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

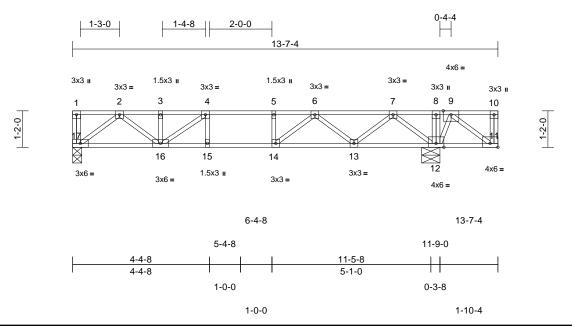


Plate Offsets (X, Y): [11:Edge,0-1-8]

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC		Vert(LL)	0.09	13-14	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	0.11	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:36.8

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD

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 12=0-7-0, 17=0-3-8 (size)

Max Uplift 17=-24 (LC 4)

Max Grav 12=1476 (LC 1), 17=374 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-17=-41/0, 10-11=-814/0, 1-2=0/0,

2-3=-720/95, 3-4=-720/95, 4-5=-890/390,

5-6=-890/390, 6-7=-388/973, 7-8=0/1501,

8-9=0/1501, 9-10=0/0

BOT CHORD 16-17=-49/433, 15-16=-390/890,

14-15=-390/890, 13-14=-718/710, 12-13=-1204/51. 11-12=-1071/0

WFBS 4-15=-133/34, 5-14=-265/0, 8-12=-43/0,

2-17=-544/62, 2-16=-58/366, 7-12=-840/0, 7-13=0/562, 6-13=-585/0, 6-14=0/632,

9-11=0/1344, 9-12=-996/0, 3-16=-183/19,

4-16=-281/360

NOTES

- Unbalanced floor live loads have been considered for this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 13-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 11-17=-7. 1-10=-67

Concentrated Loads (lb)

Vert: 10=-779 (F=-700)

May 13,2025

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)

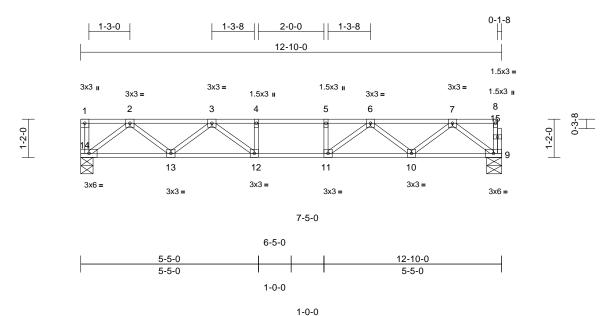


Ply Job Truss Truss Type Qty Stonehaven Rev 2-EL-1-Floor 173385773 1F15 Floor 15 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:21 ID:6wCg9RgKHGQBeY60NhQYKnzew7b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 12%E

Concentrated Loads (lb)

Vert: 14=-58

LUMBER TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

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.

(size) REACTIONS 9=0-5-8, 14=0-4-8

Max Grav 9=686 (LC 1), 14=750 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD 1-14=-40/0, 8-9=-36/0, 1-2=0/0, 2-3=-1345/0,

3-4=-2050/0, 4-5=-2050/0, 5-6=-2050/0,

6-7=-1345/0, 7-8=-2/0

BOT CHORD 13-14=0/848, 12-13=0/1807, 11-12=0/2050,

10-11=0/1807, 9-10=0/848

WEBS 4-12=-235/0, 5-11=-235/0, 2-14=-1064/0,

2-13=0/647, 3-13=-601/0, 3-12=0/509, 7-9=-1061/0, 7-10=0/648, 6-10=-602/0,

6-11=0/509

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

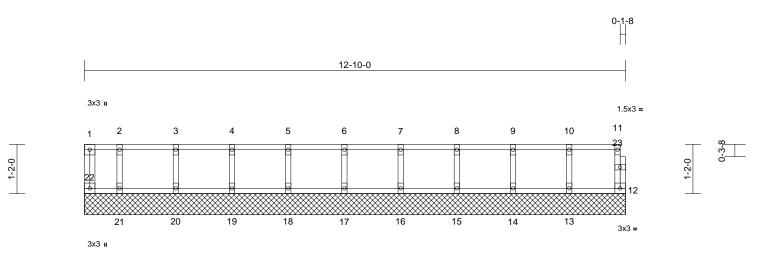
Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 9-14=-10, 1-8=-100





Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	1FGE8	Floor Supported Gable	1	1	Job Reference (optional)	173385774

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:23 ID: 6mvFXRVVr4dmvwzxsVGPXkzewEG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

BOT CHORD

TOP CHORD

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

bracing.

REACTIONS (size)

12=12-10-0, 13=12-10-0, 14=12-10-0, 15=12-10-0, 16=12-10-0, 17=12-10-0, 18=12-10-0, 19=12-10-0, 20=12-10-0, 21=12-10-0, 22=12-10-0

Max Grav

12=53 (LC 1), 13=147 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1),

18=147 (LC 1), 19=145 (LC 1), 20=153 (LC 1), 21=114 (LC 1),

22=33 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-22=-26/0, 11-12=-49/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0

BOT CHORD 21-22=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7, 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7,

13-14=0/7, 12-13=0/7

WEBS 10-13=-132/0, 9-14=-134/0, 8-15=-133/0, 7-16=-133/0, 6-17=-133/0, 5-18=-134/0,

4-19=-132/0, 3-20=-138/0, 2-21=-107/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated
- Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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

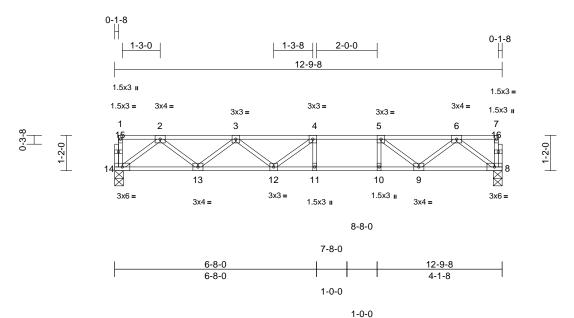
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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



Jo	do	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
		2F18	Floor	3	1	Job Reference (optional)	173385775

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:29 ID:_tbF6PxHw1Suwa9RvfEsh_y8MUK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38

			-	1							_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.19	11-12	>790	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP SS(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Grav 8=684 (LC 1), 14=684 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-14=-44/0, 7-8=-49/0, 1-2=-3/0, 2-3=-1347/0,

3-4=-1964/0, 4-5=-1968/0, 5-6=-1344/0,

6-7=-3/0

BOT CHORD 13-14=0/831, 12-13=0/1840, 11-12=0/1968,

10-11=0/1968, 9-10=0/1968, 8-9=0/818 4-11=-211/28, 5-10=0/243, 2-14=-1039/0,

2-13=0/672, 3-13=-642/0, 3-12=0/259, 4-12=-252/151, 6-8=-1022/0, 6-9=0/685,

5-9=-800/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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

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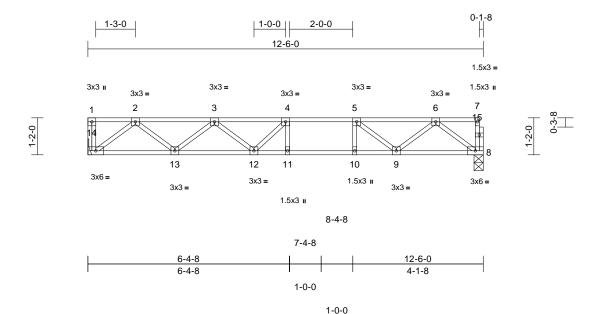
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Ply Truss Type Qty Job Truss Stonehaven Rev 2-EL-1-Floor 173385776 2F17 Floor 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. Fri May 09 13:48:29 ID:_tbF6PxHw1Suwa9RvfEsh_y8MUK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.18	11-12	>809	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP SS(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

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) 8=0-3-8, 14= Mechanical Max Grav 8=668 (LC 1), 14=674 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-44/0, 7-8=-44/0, 1-2=0/0, 2-3=-1304/0,

3-4=-1893/0, 4-5=-1885/0, 5-6=-1300/0,

6-7=-3/0

BOT CHORD 13-14=0/815, 12-13=0/1768, 11-12=0/1885,

10-11=0/1885, 9-10=0/1885, 8-9=0/803 4-11=-243/41, 5-10=-8/241, 2-14=-1022/0,

2-13=0/637, 3-13=-604/0, 3-12=0/264,

4-12=-239/169, 6-8=-1004/0, 6-9=0/647,

5-9=-755/0

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

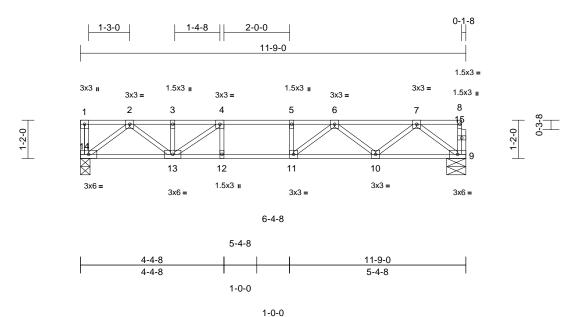


Ply Truss Type Qty Job Truss Stonehaven Rev 2-EL-1-Floor 173385777 2F27 Floor Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:33 ID:j8E97tW?eLwh7L0SCvurcbzvFYs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.07	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 12%E

LUMBER

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

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) 9=0-7-0, 14=0-3-8 Max Grav 9=418 (LC 1), 14=422 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-14=-38/0, 8-9=-24/0, 1-2=0/0, 2-3=-832/0,

3-4=-832/0, 4-5=-1131/0, 5-6=-1131/0,

6-7=-802/0, 7-8=-1/0

BOT CHORD 13-14=0/496, 12-13=0/1131, 11-12=0/1131,

10-11=0/1057, 9-10=0/513

WEBS 4-12=-15/74, 5-11=-116/0, 2-14=-622/0, 2-13=0/429, 7-9=-642/0, 7-10=0/375,

6-10=-332/0, 6-11=-20/242, 3-13=-96/48,

4-13=-438/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



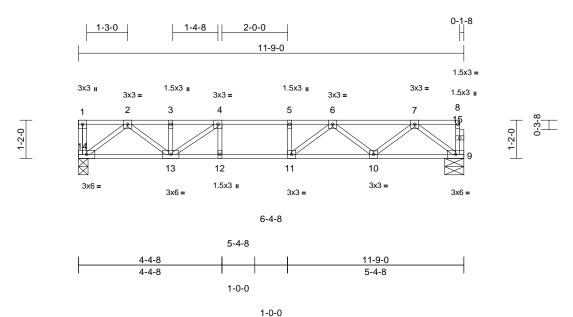
May 13,2025



Ply Truss Type Qty Job Truss Stonehaven Rev 2-EL-1-Floor 173385778 2F20 Floor 3 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. Fri May 09 13:48:29 ID:OSHNkRz9DyqTn2t0annZldy8MUH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.08	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP SS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 9=0-7-0, 14=0-3-8 Max Grav 9=418 (LC 1), 14=422 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-38/0, 8-9=-24/0, 1-2=0/0, 2-3=-832/0,

3-4=-832/0, 4-5=-1131/0, 5-6=-1131/0,

6-7=-802/0, 7-8=-1/0

BOT CHORD 13-14=0/496, 12-13=0/1131, 11-12=0/1131,

10-11=0/1056, 9-10=0/514

WEBS 4-12=-19/83, 5-11=-113/0, 2-14=-622/0,

2-13=0/429, 7-9=-643/0, 7-10=0/375, 6-10=-330/0, 6-11=-16/240, 3-13=-93/43,

4-13=-438/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

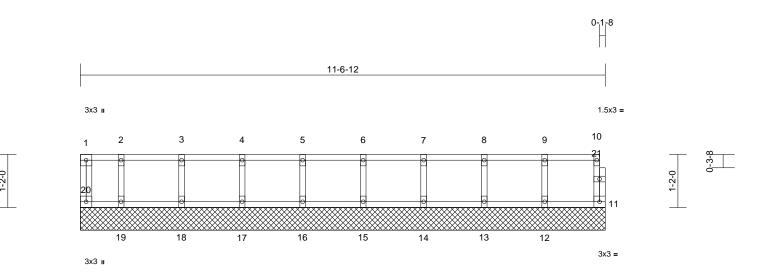


May 13,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	1FGE4	Floor Supported Gable	1	1	Job Reference (optional)	173385779

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:22 ID: Xb1O33c0E2hhOM0wVQ6qvSzewR1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:25.4

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 50 lb	FT = 20%F, 12%E

LUMBER

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

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) 11=11-6-12, 12=11-6-12,

13=11-6-12, 14=11-6-12, 15=11-6-12, 16=11-6-12, 17=11-6-12, 18=11-6-12, 19=11-6-12, 20=11-6-12

Max Grav 11=42 (LC 1), 12=118 (LC 1), 13=117 (LC 1), 14=117 (LC 1),

15=117 (LC 1), 16=118 (LC 1), 17=116 (LC 1), 18=122 (LC 1), 19=93 (LC 1), 20=30 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-24/0, 10-11=-39/0, 1-2=-5/0, 2-3=-5/0,

3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0,

7-8=-5/0, 8-9=-5/0, 9-10=-5/0

BOT CHORD 19-20=0/5, 18-19=0/5, 17-18=0/5, 16-17=0/5,

15-16=0/5, 14-15=0/5, 13-14=0/5, 12-13=0/5,

11-12=0/5

WEBS 9-12=-106/0, 8-13=-107/0, 7-14=-107/0,

6-15=-107/0, 5-16=-107/0, 4-17=-106/0,

3-18=-110/0, 2-19=-88/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web). Gable studs spaced at 1-4-0 oc.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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)

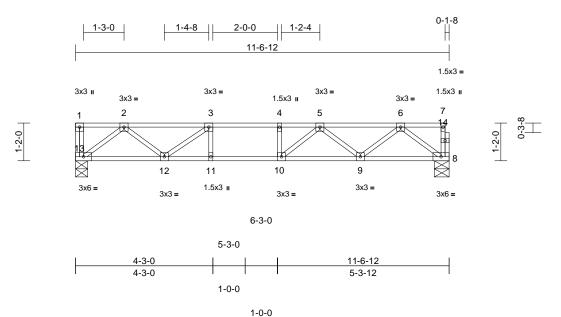


Ply Truss Type Qty Job Truss Stonehaven Rev 2-EL-1-Floor 173385780 1F7 Floor 8 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:19 ID:HnuHvkhjNO_cfXd7UIEmICzewSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.7

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.10	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 8=0-5-8, 13=0-4-8 Max Grav 8=411 (LC 1), 13=415 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-27/0, 7-8=-24/0, 1-2=0/0, 2-3=-780/0,

3-4=-1096/0, 4-5=-1096/0, 5-6=-784/0,

6-7=-1/0

BOT CHORD 12-13=0/500, 11-12=0/1096, 10-11=0/1096,

9-10=0/1032, 8-9=0/504

WEBS 3-11=-25/83, 4-10=-109/0, 2-13=-628/0, 2-12=0/364, 3-12=-401/0, 6-8=-631/0,

6-9=0/364, 5-9=-323/0, 5-10=-32/234

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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

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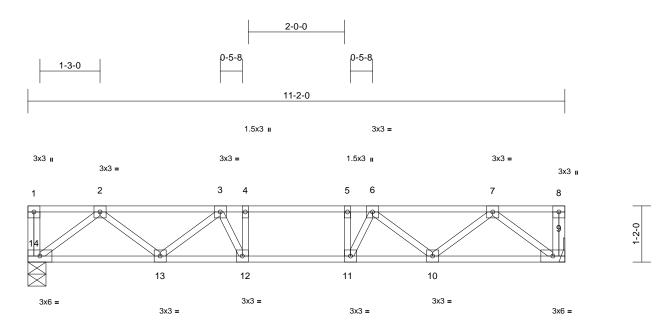
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Truss Type Qty Ply Job Truss Stonehaven Rev 2-EL-1-Floor 173385781 2F3 Floor 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. Fri May 09 13:48:24



DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.40

0.49

0.24

(loc)

12-13

12-13

9

-0.06

-0.08

0.02

I/defI

>999

>999

L/d

480

360

n/a n/a

PLATES

Weight: 58 lb

MT20

GRIP

244/190

FT = 20%F, 12%E

BCDL
LUMBER

TCLL

TCDI

BCLL

Scale = 1:24 Loading

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD

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

(psf)

40.0

10.0

0.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.00

1.00

YES

IRC2021/TPI2014

CSI

TC

BC

WB

Matrix-S

bracing.

REACTIONS (size) 9= Mechanical, 14=0-4-8

Max Grav 9=600 (LC 1), 14=600 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

1-14=-39/0, 8-9=-39/0, 1-2=0/0, 2-3=-1116/0, 3-4=-1536/0, 4-5=-1536/0, 5-6=-1536/0,

6-7=-1116/0, 7-8=0/0

BOT CHORD 13-14=0/726, 12-13=0/1476, 11-12=0/1536,

10-11=0/1476, 9-10=0/726

WEBS 2-14=-910/0, 7-9=-910/0, 2-13=0/508

7-10=0/508, 3-13=-468/0, 6-10=-468/0 3-12=-72/402, 6-11=-72/402, 4-12=-298/37,

5-11=-298/37

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 13,2025

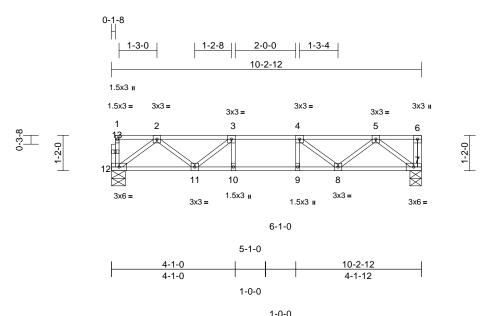
Page: 1



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-1-Floor	
	1F6	Floor	6	1	Job Reference (optional)	173385782

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:19 ID:Jtvz6U_rutuFPG4GwPjTlBzewVj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38

	, ,	l		1								
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

REACTIONS (size) 7=0-4-8, 12=0-5-8 Max Grav 7=439 (LC 1), 12=434 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-27/0, 6-7=-29/0, 1-2=-2/0, 2-3=-789/0,

3-4=-1036/0, 4-5=-788/0, 5-6=0/0 **BOT CHORD** 11-12=0/526, 10-11=0/1036, 9-10=0/1036,

8-9=0/1036, 7-8=0/529

WEBS 3-10=-57/84, 4-9=-61/77, 5-7=-664/0,

5-8=0/337, 4-8=-347/0, 2-12=-657/0,

2-11=0/343, 3-11=-351/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

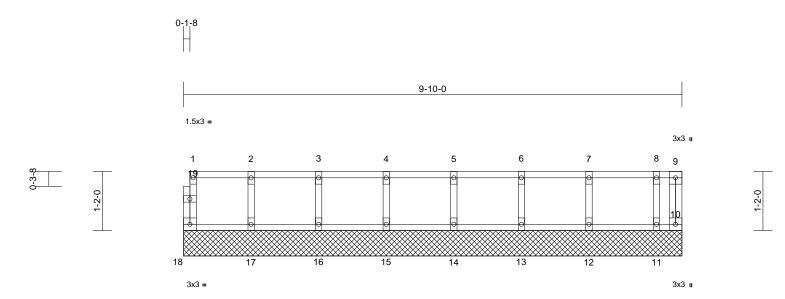




Ply Job Truss Truss Type Qty Stonehaven Rev 2-EL-1-Floor 173385783 1FGE3 Floor Supported Gable Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:22 ID:FOIH7q5nAjdoeHPS5h0RRyzew4T-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:22.7

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 lb	FT = 20%F, 12%E

LUMBER

LOAD CASE(S) Standard

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

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)

10=9-10-0, 11=9-10-0, 12=9-10-0, 13=9-10-0, 14=9-10-0, 15=9-10-0,

16=9-10-0, 17=9-10-0, 18=9-10-0 10=8 (LC 1), 11=80 (LC 1), 12=122

(LC 1), 13=116 (LC 1), 14=118 (LC 1), 15=117 (LC 1), 16=118 (LC 1),

17=117 (LC 1), 18=43 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-39/0, 9-10=0/0, 1-2=-6/0, 2-3=-6/0,

3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0,

7-8=-6/0, 8-9=-6/0

BOT CHORD 17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6, 13-14=0/6, 12-13=0/6, 11-12=0/6, 10-11=0/6

WEBS 2-17=-105/0, 3-16=-107/0, 4-15=-106/0,

5-14=-107/0, 6-13=-106/0, 7-12=-111/0,

8-11=-80/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



May 13,2025

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

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

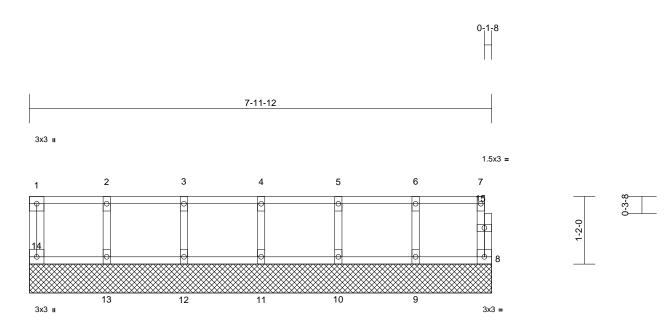
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Ply Qty Job Truss Truss Type Stonehaven Rev 2-FI -1-Floor 173385784 2FGE6 Floor 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. Fri May 09 13:48:34 ID:_tbF6PxHw1Suwa9RvfEsh_y8MUK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:19.9

1-2-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 36 lb	FT = 20%F, 12%E

LUMBER

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

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

13=7-11-12, 14=7-11-12

Max Grav 8=56 (LC 1), 9=141 (LC 1), 10=148

(LC 1), 11=146 (LC 1), 12=148 (LC 1), 13=143 (LC 1), 14=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-57/0, 7-8=-50/0, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0

13-14=0/10, 12-13=0/10, 11-12=0/10,

BOT CHORD 10-11=0/10, 9-10=0/10, 8-9=0/10 **WEBS**

2-13=-130/0, 3-12=-134/0, 4-11=-133/0,

5-10=-135/0, 6-9=-129/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise
- Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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

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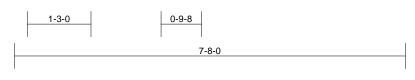
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Ply Qty Job Truss Truss Type Stonehaven Rev 2-EL-1-Floor 173385785 2FG1 Floor Girder Job Reference (optional)

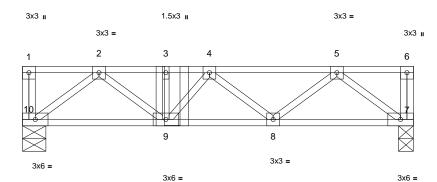
Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:33 ID:1SbKe?BBuc2SX2228CWCbtzUeyA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



THA422

3x3 =



Scale = 1:22.6

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.02	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 43 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD

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

bracing.

REACTIONS (size) 7=0-3-8, 10=0-5-8

Max Grav 7=464 (LC 1), 10=568 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

1-10=-43/0, 6-7=-31/0, 1-2=0/0, 2-3=-1154/0, 3-4=-1154/0, 4-5=-851/0, 5-6=0/0

BOT CHORD 9-10=0/679, 8-9=0/1119, 7-8=0/559 WEBS 5-7=-701/0, 2-10=-852/0, 5-8=0/381,

2-9=0/606, 4-8=-349/0, 3-9=-401/0, 4-9=0/55

NOTES

- 1) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 2-11-4 from the left end to connect truss (es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 7-10=-8, 1-6=-80 Concentrated Loads (lb) Vert: 3=-379 (F)



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

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

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

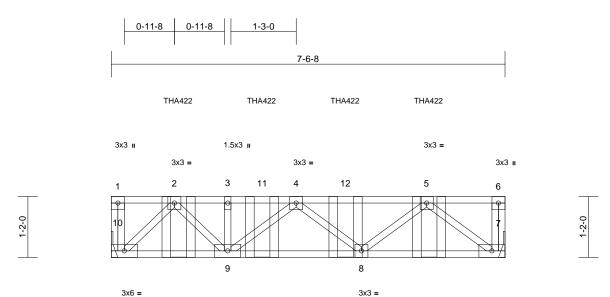


Ply Truss Type Job Truss Qty Stonehaven Rev 2-EL-1-Floor 173385786 2FG2 Floor Girder Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:33 ID:ETT47Ea7qtSNE4IJ5y8bkjzvB81-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x6 = 3x6 = Scale = 1:22.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 42 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

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

bracing.

REACTIONS (size) 7= Mechanical, 10= Mechanical Max Grav 7=459 (LC 1), 10=463 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-44/0, 6-7=-35/0, 1-2=0/0, 2-3=-676/0,

3-4=-676/0, 4-5=-720/0, 5-6=0/0

BOT CHORD 9-10=0/426, 8-9=0/860, 7-8=0/545 **WEBS** 5-7=-684/0, 5-8=0/227, 4-8=-183/0,

4-9=-235/0, 3-9=-85/0, 2-9=0/358,

2-10=-591/0

NOTES Refer to girder(s) for truss to truss connections. 1)

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-7-3 oc max. starting at 1-3-7 from the left end to 6-1-1 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 7-10=-10, 1-6=-100 Concentrated Loads (lb)

Vert: 5=-30 (B), 2=-30 (B), 11=-30 (B), 12=-30 (B)

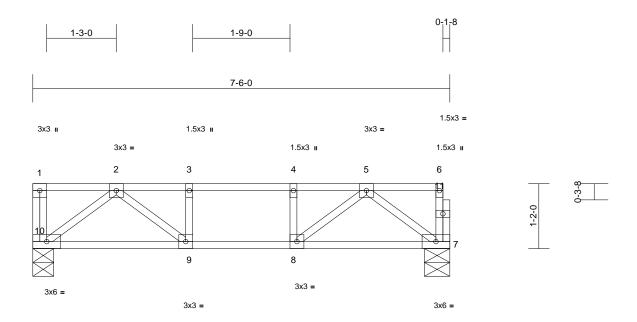




Ply Qty Job Truss Truss Type Stonehaven Rev 2-EL-1-Floor 173385787 1F8 Floor 5 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:19 ID:N51nABj5p09npLTPK1E95ezewPc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:20.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

BOT CHORD

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

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

REACTIONS (size) 7=0-5-8, 10=0-4-8 Max Grav 7=393 (LC 1), 10=399 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-58/0, 6-7=-55/0, 1-2=0/0, 2-3=-672/0,

3-4=-672/0, 4-5=-672/0, 5-6=-3/0 **BOT CHORD** 9-10=0/434, 8-9=0/672, 7-8=0/433 WEBS 2-10=-545/0, 5-7=-539/0, 2-9=0/345,

5-8=0/346, 3-9=-169/0, 4-8=-169/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



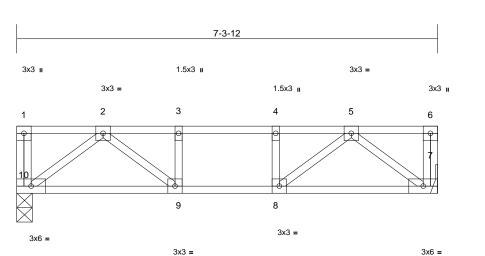


Ply Qty Job Truss Truss Type Stonehaven Rev 2-EL-1-Floor 173385788 2F15 Floor 2 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:28 ID: Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff





3x3 = Scale = 1:20

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

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

bracing.

REACTIONS (size) 7= Mechanical, 10=0-3-4

Max Grav 7=388 (LC 1), 10=388 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-57/0, 6-7=-57/0, 1-2=0/0, 2-3=-641/0,

3-4=-641/0, 4-5=-641/0, 5-6=0/0

BOT CHORD 9-10=0/421, 8-9=0/641, 7-8=0/421 WEBS 5-7=-529/0, 2-10=-529/0, 5-8=0/321, 2-9=0/321, 3-9=-155/0, 4-8=-155/0

NOTES

- 1) Unbalanced floor live loads have been considered for
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 13,2025

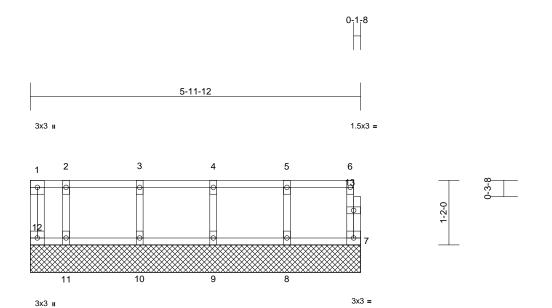
Page: 1



Ply Qty Job Truss Truss Type Stonehaven Rev 2-FI -1-Floor 173385789 1FGE5 Floor 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. Fri May 09 13:48:22 ID:zsyvMtdOpE9Zv1mvgwomDEzew3n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:20.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 28 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=5-11-12, 8=5-11-12, 9=5-11-12,

10=5-11-12, 11=5-11-12,

12=5-11-12

Max Grav 7=53 (LC 1), 8=147 (LC 1), 9=145

(LC 1), 10=153 (LC 1), 11=104 (LC

1), 12=21 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-13/0, 6-7=-49/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0, 4-5=-7/0, 5-6=-7/0

BOT CHORD 11-12=0/7, 10-11=0/7, 9-10=0/7, 8-9=0/7,

7-8=0/7

5-8=-132/0, 4-9=-133/0, 3-10=-138/0,

2-11=-102/0

WEBS NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 13,2025

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

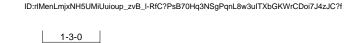
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

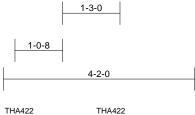


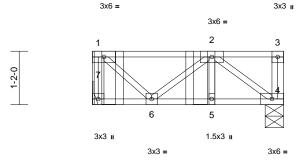
Ply Qty Job Truss Truss Type Stonehaven Rev 2-EL-1-Floor 173385790 2FG3 Floor Girder Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:33







Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.01	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 26 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

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

bracing.

REACTIONS (size) 4=0-4-13, 7= Mechanical

Max Grav 4=579 (LC 1), 7=1038 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-7=-1033/0, 3-4=-35/0, 1-2=-357/0, 2-3=0/0

BOT CHORD 6-7=0/0, 5-6=0/735, 4-5=0/735

WEBS 2-4=-908/0, 2-5=0/5, 2-6=-483/0, 1-6=0/478

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-4-4 from the left end to 2-4-4 to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-7=-10, 1-3=-100 Concentrated Loads (lb)

Vert: 2=-574 (F), 1=-612 (F)



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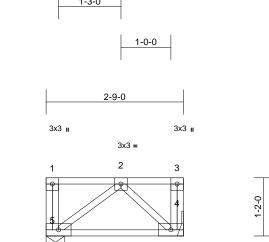


Ply Qty Job Truss Truss Type Stonehaven Rev 2-EL-1-Floor 173385791 2F7 Floor Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:26 ID:R7aUIKnQCzRvcDBIMrR?uPzUf__-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-3-0



3x6 =

Scale = 1:23.1

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 4=110 (LC 1), 5=110 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-44/0, 3-4=-31/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/74

WEBS 2-5=-93/0, 2-4=-101/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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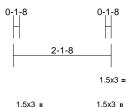


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Qty Ply Job Truss Truss Type Stonehaven Rev 2-EL-1-Floor 173385792 1FGE9 Floor Supported Gable Job Reference (optional)

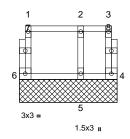
Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Fri May 09 13:48:23 ID:K15mZQuv0gYIVFHsxISdRPzUV2d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1.5x3 =1.5x3 II





3x3 =

Scale = 1:25.1

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-1-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing.

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

4=23 (LC 1), 5=84 (LC 1), 6=48 Max Grav (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-44/0, 3-4=-17/0, 1-2=-7/0, 2-3=-7/0 **BOT CHORD** 5-6=0/7, 4-5=0/7

WEBS 2-5=-80/0

NOTES

- 1) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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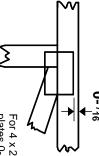
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

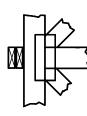
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

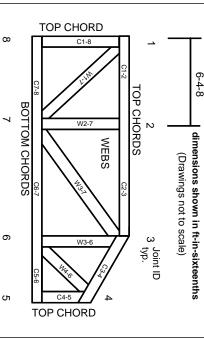
Industry Standards:

ANSI/TPI1: DSB-22:

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

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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