

RE: 2411-0122-E - Stonehaven Rev 2-EL-6,7-Floor

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

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

Lot/Block: Subdivision:

Model: Address:

City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 25.2

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	e Date	No.	Seal#	Truss Name	Date
1	174557669	1FGE9	7/1/25	35	174557703	1F10	7/1/25
2 3 4 5 6 7 8 9	174557670 174557671	2FGE7	7/1/25 7/1/25	36 37	174557704 174557705	1F9 1FGR1	7/1/25 7/1/25
4	174557672	2F7	7/1/25	38	174557706	2F16	7/1/25
5 6	174557673 174557674	2FG3 1FGE5	7/1/25 7/1/25	39 40	174557707 174557708	2FGE4 2F26A	7/1/25 7/1/25
7	174557675	2F15	7/1/25	41	174557709	2F26	7/1/25
8 9	174557676 174557677	1F8 2FG2	7/1/25 7/1/25	43	174557710 174557711	2F5 2F6	7/1/25 7/1/25
10	174557678	2FG1	7/1/25	44	174557712	1F3	7/1/25
11 12	174557679 174557680	2FGE6 1FGE3	7/1/25 7/1/25	45 46	174557713 174557714	1F3A 2F10	7/1/25 7/1/25
13	174557681	1FGE11	7/1/25	47	174557715	2FGE2	7/1/25
14	174557682 174557683	1FGE10 1F6	7/1/25 7/1/25	48 49	174557716 174557717	1FGE6 2F24	7/1/25 7/1/25
16	174557684	1FGE8	7/1/25	50	174557718	2F24A	7/1/25
17 18	174557685 174557686	1F17 2F3	7/1/25 7/1/25	52	174557719 174557720	2F25 1FGE1	7/1/25 7/1/25
19	174557687	1F7	7/1/25	53	174557721	1F1	7/1/25
20 21	174557688 174557689	1FGE4 2F20	7/1/25 7/1/25	54 55	174557722 174557723	1F2 1F4	7/1/25 7/1/25
22	174557690	2F27	7/1/25	56	174557724	1F4A	7/1/25
23	174557691 174557692	1F16 2F17	7/1/25 7/1/25	57 58	174557725 174557726	2FGE3 2F23A	7/1/25 7/1/25
25	174557693	2F18	7/1/25	59	174557727	2F12	7/1/25
26 27	174557694 174557695	1F15 2F21	7/1/25 7/1/25	61	174557728 174557729	2F14 1F5	7/1/25 7/1/25
28	174557696	2F22A	7/1/25	62	174557730	2FGE1	7/1/25
29 30	174557697 174557698	2F22 1FGE7	7/1/25 7/1/25	63 64	174557731 174557732	2F1A 2F2	7/1/25 7/1/25
31	174557699	1F14	7/1/25	65	174557733	2F1	7/1/25
32	174557700 174557701	1F11 1F13	7/1/25 7/1/25	66 67	174557734 174557735	2F4 2F16A	7/1/25 7/1/25
34	174557702	1F12	7/1/25	68	174557736	2F9B	7/1/25

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

Truss Engineering Co. under my direct supervision based on the parameters

provided by Structural, LLC.

provided by Structural, LLC.

Truss Design Engineer's Name: Tony Miller

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 certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the 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.



July 1,2025



RE: 2411-0122-E - Stonehaven Rev 2-EL-6,7-Floor

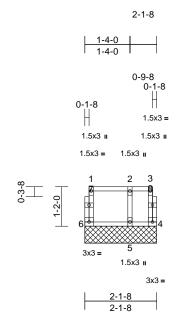
Trenco 818 Soundside Rd Edenton, NC 27932

No.	Seal#	Truss Name	Date
69 70	174557737 174557738		7/1/25 7/1/25
70 71	174557739		7/1/25

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE12	Floor Supported Gable	2	1	Job Reference (optional)	174557670

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 

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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	0.05	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.

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

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

4=29 (LC 1), 5=105 (LC 1), 6=60 Max Grav

(LC 1)

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

Tension

TOP CHORD 1-6=-55/0, 3-4=-22/0, 1-2=-9/0, 2-3=-9/0

BOT CHORD 5-6=0/9, 4-5=0/9 WEBS 2-5=-100/0

### **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.

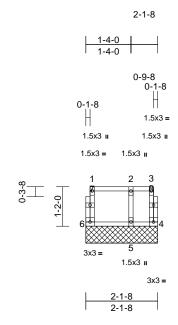
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FGE7	Floor Supported Gable	2	1	Job Reference (optional)	174557671

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:18 ID:6lqgkaXSh08Y7bbaMHoVKZz2Ne8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

4=20 (LC 1), 5=70 (LC 1), 6=40 Max Grav

(LC 1)

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

Tension

TOP CHORD 1-6=-37/0, 3-4=-14/0, 1-2=-6/0, 2-3=-6/0

**BOT CHORD** 5-6=0/6, 4-5=0/6

WEBS 2-5=-66/0

# **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

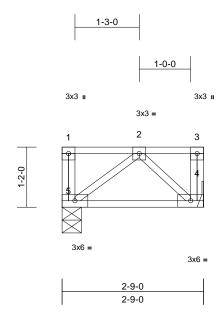


July 1,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F7	Floor	8	1	Job Reference (optional)	174557672

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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	0.08	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

1-5=-44/0, 3-4=-31/0, 1-2=0/0, 2-3=0/0

TOP CHORD 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



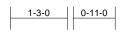
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FG3	Floor Girder	2	1	Job Reference (optional)	174557673

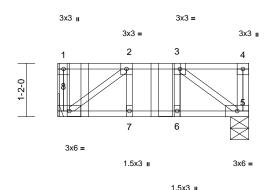
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THA422

THAC422



4-2-0 4-2-0

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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	0.50	Vert(LL)	-0.03	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.03	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 25 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

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) 5=0-4-13, 8= Mechanical

Max Grav 5=608 (LC 4), 8=1096 (LC 3)

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

1-8=-685/0, 4-5=-111/0, 1-2=0/0, 2-3=-605/0,

3-4=0/0 **BOT CHORD** 7-8=0/605, 6-7=0/605, 5-6=0/605

3-5=-747/0, 2-8=-747/0, 2-7=0/197,

# NOTES

WEBS

- 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.
- Use Simpson Strong-Tie THAC422 (Single Chord Girder) or equivalent at 0-4-4 from the left end to connect truss(es) to front face of top chord.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 2-4-4 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 1=-612 (F), 3=-574 (F)







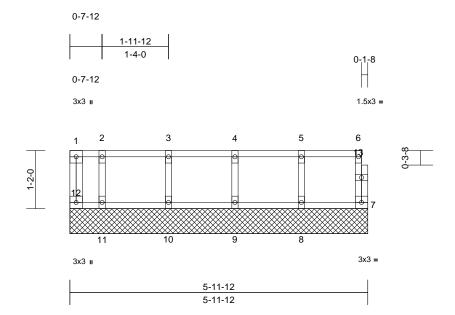
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE5	Floor Supported Gable	2	1	Job Reference (optional)	174557674

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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	0.08	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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard





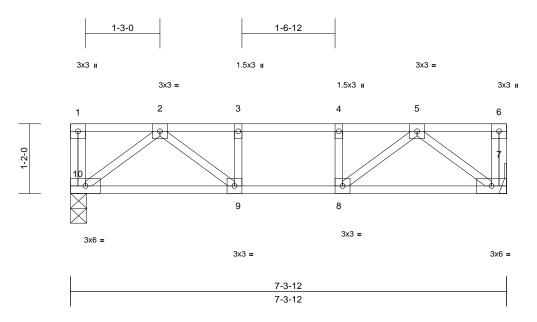
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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-6,7-Floor
2411-0122-E	2F15	Floor	4	1	Job Reference (optional)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID: Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff



Scale = 1:19.3

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	0.22	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



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

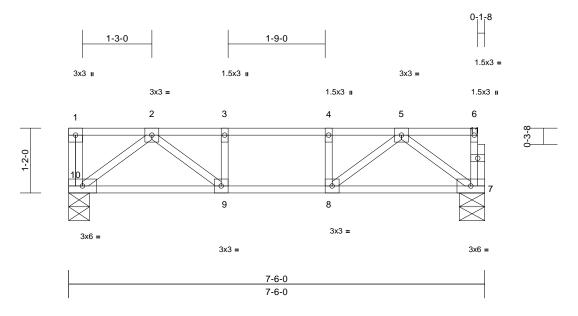
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F8	Floor	10	1	Job Reference (optional)	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:N51nABj5p09npLTPK1E95ezewPc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:20.8

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	0.26	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

1-10=-58/0, 6-7=-55/0, 1-2=0/0, 2-3=-672/0,

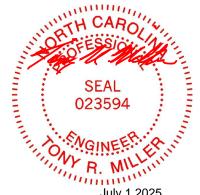
TOP CHORD 3-4=-672/0, 4-5=-672/0, 5-6=-3/0 **BOT CHORD** 9-10=0/434, 8-9=0/672, 7-8=0/433

2-10=-545/0, 5-7=-539/0, 2-9=0/345, 5-8=0/346, 3-9=-169/0, 4-8=-169/0

# WEBS 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



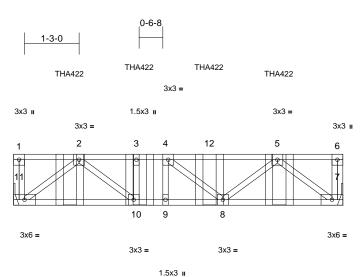
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FG2	Floor Girder	2	1	Job Reference (optional)	174557677

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:17 ID:ETT47Ea7qtSNE4IJ5y8bkjzvB81-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.68	Vert(LL)	-0.03	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.61	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%F, 12%E

Vert: 5=-30 (B), 2=-30 (B), 3=-30 (B), 12=-30 (B)

Vert: 7-11=-10, 1-6=-100

Concentrated Loads (lb)

7-6-8 7-6-8

LUMBER

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

WEBS 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) 7= Mechanical, 11= Mechanical

Max Grav 7=531 (LC 4), 11=462 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-11=-59/0, 6-7=-29/0, 1-2=0/0, 2-3=-855/0,

3-4=-855/0, 4-5=-804/0, 5-6=0/0

BOT CHORD 10-11=0/525, 9-10=0/855, 8-9=0/855,

7-8=0/666

WEBS 5-7=-836/0, 2-11=-659/0, 5-8=0/256,

2-10=0/530, 4-8=-235/0, 3-10=-167/0,

4-9=-173/28

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 3) 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.
- 5) 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)



TRENCO

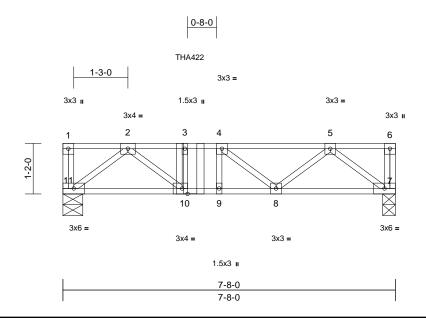
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FG1	Floor Girder	2	1	Job Reference (optional)	174557678

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:17 ID:1SbKe?BBuc2SX2228CWCbtzUeyA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Plate Offsets	(X,	Y):	[10:0-	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	0.36	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%F, 12%E

Concentrated Loads (lb) Vert: 3=-451 (F) 2x4 SP No.2(flat)

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

**BRACING** 

LUMBER

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7=0-3-8, 11=0-5-8

Max Grav 7=490 (LC 1), 11=614 (LC 1)

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

Tension

TOP CHORD 1-11=-40/0, 6-7=-32/0, 1-2=0/0, 2-3=-1249/0,

3-4=-1249/0, 4-5=-917/0, 5-6=0/0 10-11=0/739, 9-10=0/1249, 8-9=0/1249,

**BOT CHORD** 7-8=0/590

WEBS 5-7=-741/0, 2-11=-928/0, 5-8=0/454,

2-10=0/714, 4-8=-498/0, 3-10=-447/0,

4-9=0/127

### 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.
- 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: 7-11=-8, 1-6=-80



July 1,2025

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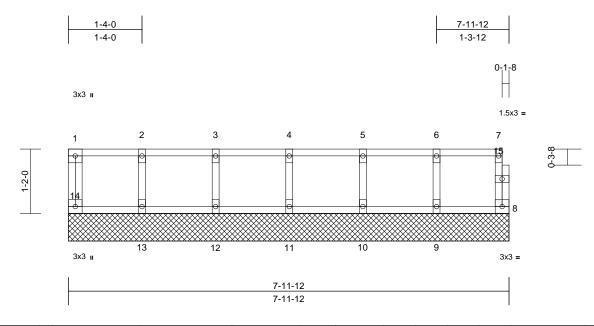
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FGE6	Floor Supported Gable	2	1	Job Reference (optional)	174557679

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:18 ID:\_tbF6PxHw1Suwa9RvfEsh\_y8MUK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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)

(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

BOT CHORD 13-14=0/10, 12-13=0/10, 11-12=0/10,

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

FORCES

- 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

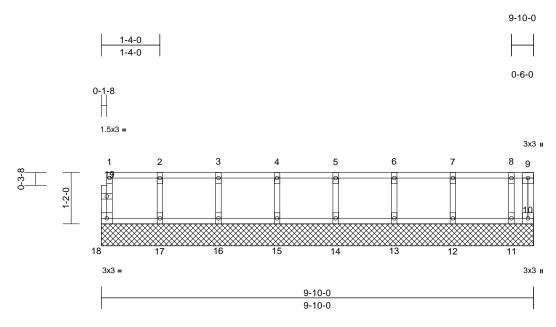




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE3	Floor Supported Gable	2	1	Job Reference (optional)	174557680

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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	0.06	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) (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

**FORCES** 

- 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.
- 6) CAUTION, Do not erect truss backwards.



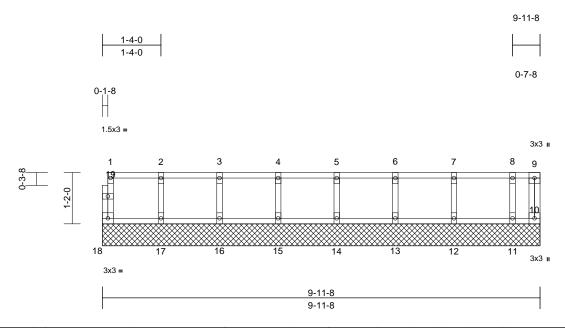
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE11	Floor Supported Gable	1	1	Job Reference (optional)	174557681

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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	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 lb	FT = 20%F, 12%E

LOAD CASE(S) Standard

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

bracing.

REACTIONS (size)

10=9-11-8, 11=9-11-8, 12=9-11-8, 13=9-11-8, 14=9-11-8, 15=9-11-8, 16=9-11-8, 17=9-11-8, 18=9-11-8

Max Grav 10=19 (LC 1), 11=104 (LC 1), 12=153 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1),

18=53 (LC 1)

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

Tension TOP CHORD

1-18=-49/0, 9-10=-11/0, 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

**BOT CHORD** 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7

**WEBS** 2-17=-132/0, 3-16=-134/0, 4-15=-133/0,

5-14=-134/0, 6-13=-132/0, 7-12=-139/0,

8-11=-102/0

#### 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.



July 1,2025

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

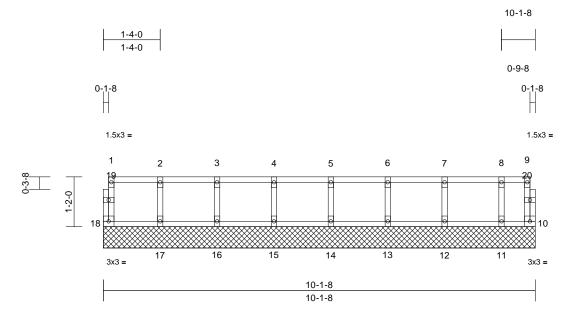
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE10	Floor Supported Gable	1	1	Job Reference (optional)	174557682

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Scale = 1:27

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/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	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.

Max Grav

REACTIONS (size) 10=10-1-8, 11=10-1-8, 12=10-1-8, 13=10-1-8, 14=10-1-8, 15=10-1-8,

16=10-1-8, 17=10-1-8, 18=10-1-8 10=25 (LC 1), 11=111 (LC 1),

12=153 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1),

18=53 (LC 1)

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

Tension

TOP CHORD 1-18=-49/0, 9-10=-18/0, 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

**BOT CHORD** 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7

**WEBS** 2-17=-132/0, 3-16=-134/0, 4-15=-133/0,

5-14=-134/0, 6-13=-132/0, 7-12=-139/0,

8-11=-106/0

#### 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.



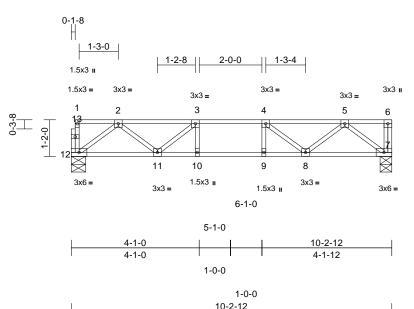
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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-6,7-Floor	
2411-0122-E	1F6	Floor	12	1	Job Reference (optional)	174557683

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12  $ID: Jtvz 6 U\_rutu FPG 4 GwPjT IBzewVj-RfC? PsB 70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full for the first of t$ 



Scale = 1:36.8

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	0.26	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

**BOT CHORD** 

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

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

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

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



July 1,2025

Page: 1

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

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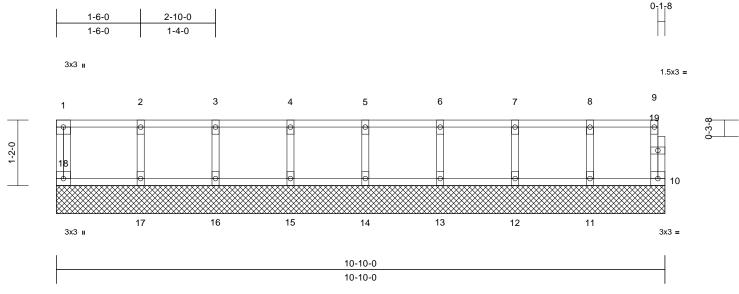
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE8	Floor Supported Gable	2	1	Job Reference (optional)	174557684

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:13 ID: 6mvFXRVVr4dmvwzxsVGPXkzewEG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:20.5

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	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 47 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)

10=10-10-0, 11=10-10-0, 12=10-10-0, 13=10-10-0, 14=10-10-0, 15=10-10-0, 16=10-10-0, 17=10-10-0, 18=10-10-0 Max Grav 10=59 (LC 1), 11=139 (LC 1), 12=149 (LC 1), 13=146 (LC 1),

> 16=145 (LC 1), 17=154 (LC 1), 18=72 (LC 1)

14=147 (LC 1), 15=147 (LC 1),

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

Tension

TOP CHORD 1-18=-66/0, 9-10=-53/0, 1-2=-13/0, 2-3=-13/0,

3-4=-13/0, 4-5=-13/0, 5-6=-13/0, 6-7=-13/0, 7-8=-13/0, 8-9=-13/0

**BOT CHORD** 17-18=0/13, 16-17=0/13, 15-16=0/13,

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

11-12=0/13, 10-11=0/13

WEBS 8-11=-128/0, 7-12=-135/0, 6-13=-133/0,

5-14=-133/0, 4-15=-134/0, 3-16=-132/0,

2-17=-139/0

## 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



July 1,2025

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

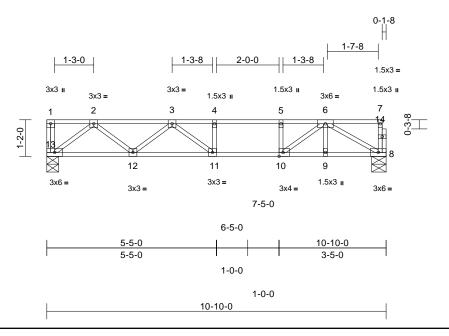
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	1F17	Floor	10	1	Job Reference (optional)	174557685

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:13 ID:6wCg9RgKHGQBeY60NhQYKnzew7b-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Plate Offsets (X, Y): [10:0-1-8,Edge]

		i		1							i	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.16	11-12	>800	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		, ,					Weight: 56 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 8=0-5-8, 13=0-4-8 (size)

Max Grav 8=576 (LC 1), 13=582 (LC 1)

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

Tension TOP CHORD 1-13=-41/0, 7-8=-83/0, 1-2=0/0, 2-3=-1084/0,

3-4=-1394/0, 4-5=-1394/0, 5-6=-1394/0,

6-7=-5/0

**BOT CHORD** 12-13=0/706, 11-12=0/1396, 10-11=0/1394,

9-10=0/835, 8-9=0/835

**WEBS** 4-11=-127/0, 5-10=-296/0, 2-13=-885/0,

2-12=0/493. 3-12=-405/0. 3-11=-114/241.

6-10=0/754, 6-9=-59/13, 6-8=-957/0

### 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



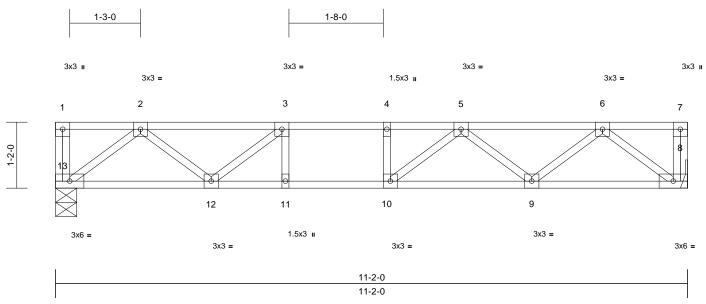
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F3	Floor	2	1	Job Reference (optional)	4557686

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:Ovc6V4gOvDUkKfb?flYLpizUWgB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20.4

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	0.45	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.12	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	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) **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) 8= Mechanical, 13=0-4-8 Max Grav 8=600 (LC 1), 13=600 (LC 1)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

1-13=-42/0, 7-8=-40/0, 1-2=0/0, 2-3=-1118/0, 3-4=-1532/0, 4-5=-1532/0, 5-6=-1122/0,

6-7=0/0

**BOT CHORD** 12-13=0/719, 11-12=0/1532, 10-11=0/1532,

9-10=0/1469, 8-9=0/728

**WEBS** 6-8=-913/0, 2-13=-902/0, 6-9=0/513,

2-12=0/519, 5-9=-451/0, 3-12=-542/0, 5-10=-78/298, 3-11=-39/125, 4-10=-129/0

#### 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



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

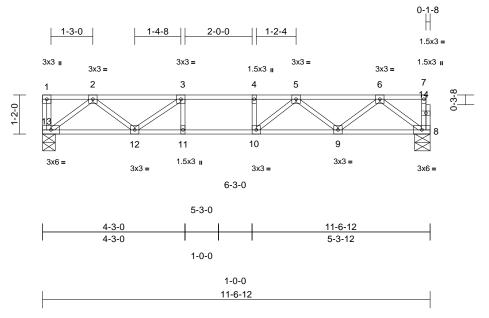
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F7	Floor	16	1	Job Reference (optional)	174557687

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:HnuHvkhjNO\_cfXd7UIEmICzewSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.4

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) **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) 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



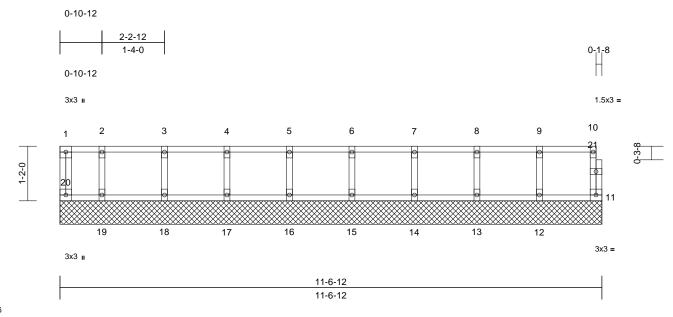
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE4	Floor Supported Gable	2	1	Job Reference (optional)	174557688

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:13 ID: Xb1O33c0E2hhOM0wVQ6qvSzewR1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:24.6

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	0.06	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



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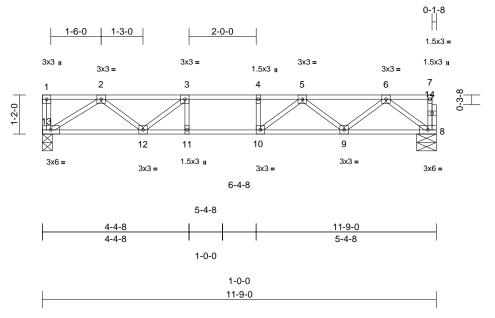
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F20	Floor	6	1	Job Reference (optional)	174557689

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 

Page: 1



Scale = 1:34.4

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	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 59 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=0-7-0, 13=0-3-8

Max Grav 8=418 (LC 1), 13=422 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-13=-38/0, 7-8=-24/0, 1-2=0/0, 2-3=-853/0,

3-4=-1134/0, 4-5=-1134/0, 5-6=-801/0,

6-7=-1/0

**BOT CHORD** 12-13=0/582, 11-12=0/1134, 10-11=0/1134,

9-10=0/1057, 8-9=0/513

WEBS 3-11=-33/95, 4-10=-107/0, 6-8=-642/0, 6-9=0/375, 5-9=-332/0, 5-10=-17/244,

2-13=-692/0, 2-12=0/352, 3-12=-386/0

## 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

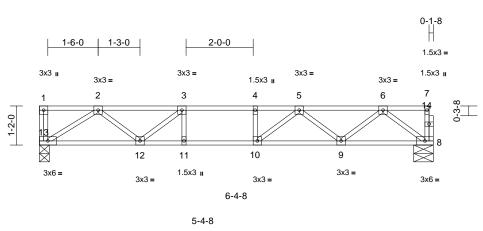


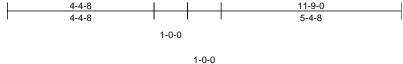
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F27	Floor	2	1	Job Reference (optional)	174557690

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:17 ID:j8E97tW?eLwh7L0SCvurcbzvFYs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





11-9-0

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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	0.35	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 59 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** 

**FORCES** 

Structural wood sheathing directly applied or TOP CHORD

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

bracing.

REACTIONS (size) 8=0-7-0, 13=0-3-8 Max Grav 8=418 (LC 1), 13=422 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-39/0, 7-8=-24/0, 1-2=0/0, 2-3=-854/0,

3-4=-1134/0, 4-5=-1134/0, 5-6=-801/0,

6-7=-1/0

**BOT CHORD** 12-13=0/582, 11-12=0/1134, 10-11=0/1134,

9-10=0/1057, 8-9=0/513

WEBS 3-11=-29/85, 4-10=-111/0, 6-8=-642/0, 6-9=0/375, 5-9=-334/0, 5-10=-22/246,

2-13=-691/0, 2-12=0/354, 3-12=-382/0

## 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



Page: 1

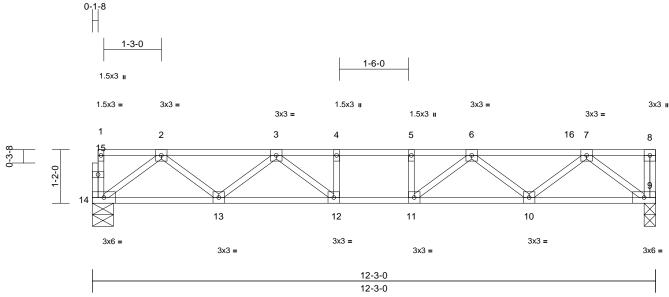
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F16	Floor	10	1	Job Reference (optional)	174557691

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:13 ID:NhPnCQEUdRVYgGeVbW7pcbz7IOO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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	0.43	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.11	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 12%E

Concentrated Loads (lb)

Vert: 8=-10

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) 9=0-3-0, 14=0-5-8

Max Grav 9=805 (LC 1), 14=664 (LC 1)

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

Tension

TOP CHORD 1-14=-35/0, 8-9=-100/0, 1-2=-2/0, 2-3=-1291/0, 3-4=-1934/0, 4-5=-1934/0,

5-6=-1934/0, 6-7=-1363/0, 7-8=0/0

**BOT CHORD** 13-14=0/819, 12-13=0/1730, 11-12=0/1934,

10-11=0/1771, 9-10=0/917

WEBS 7-9=-1151/0, 2-14=-1025/0, 7-10=0/580, 2-13=0/615, 6-10=-531/0, 3-13=-572/0,

6-11=-21/396, 3-12=0/448, 4-12=-204/0,

5-11=-183/0

### 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.
- 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, 1-16=-100, 8-16=-183



July 1,2025

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

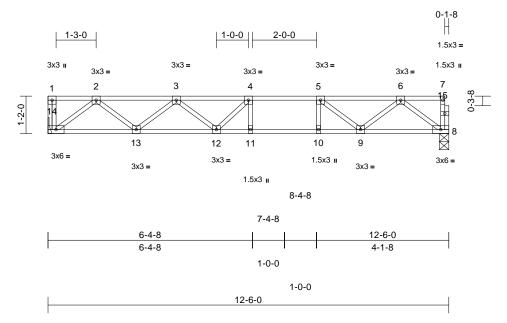
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F17	Floor	4	1	Job Reference (optional)	174557692

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:\_tbF6PxHw1Suwa9RvfEsh\_y8MUK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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



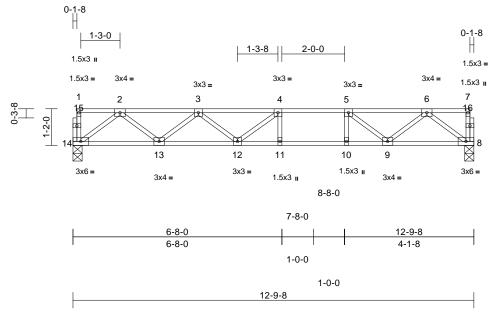
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F18	Floor	6	1	Job Reference (optional)	174557693

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:\_tbF6PxHw1Suwa9RvfEsh\_y8MUK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

- 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.

LOAD CASE(S) Standard



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

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

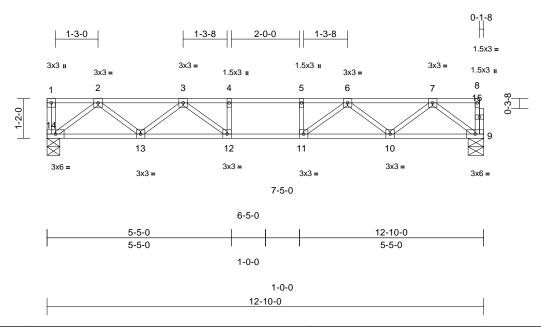
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F15	Floor	20	1	Job Reference (optional)	174557694

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:6wCg9RgKHGQBeY60NhQYKnzew7b-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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.

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

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

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



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

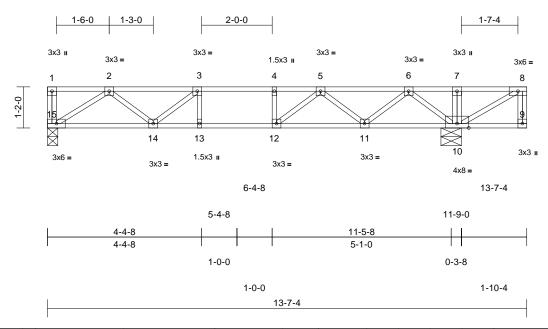
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F21	Floor Girder	2	1	Job Reference (optional)	174557695

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:serlxn\_o\_GyKPCSC8Vlorqy8MUG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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	0.81	Vert(LL)	0.09	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	0.12	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 71 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 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 9-10.

REACTIONS (size) 10=0-7-0, 15=0-3-8

Max Uplift 15=-21 (LC 4)

Max Grav 10=1472 (LC 1), 15=376 (LC 3)

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

Tension

TOP CHORD 1-15=-35/4, 8-9=-4/3, 1-2=0/0, 2-3=-725/144, 3-4=-904/371, 4-5=-904/371, 5-6=-404/950,

6-7=0/1456, 7-8=0/1457

BOT CHORD 14-15=-32/519, 13-14=-371/904, 12-13=-371/904, 11-12=-694/726,

10-11=-1179/70, 9-10=0/0

3-13=-165/39, 4-12=-249/0, 7-10=-123/0,

6-10=-819/0, 6-11=0/557, 5-11=-587/0, 5-12=0/628, 8-10=-1673/0, 2-15=-617/38,

2-14=-146/267, 3-14=-253/290

## NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 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: 9-15=-7, 1-8=-67

Concentrated Loads (lb)

Vert: 8=-779 (F=-700)

July 1,2025

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

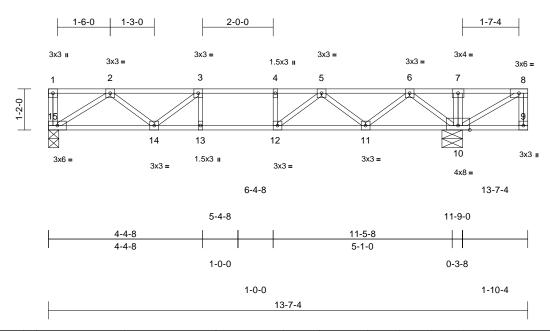
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F22A	Floor	2	1	Job Reference (optional)	174557696

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:KqP897?Qla4B1M1OiCp1O2y8MUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:32.7

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	0.82	Vert(LL)	0.09	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	0.12	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 71 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 6-0-0 oc

bracing, Except: 10-0-0 oc bracing: 9-10.

REACTIONS (size) 10=0-7-0, 15=0-3-8 Max Uplift 15=-24 (LC 4)

Max Grav 10=3806 (LC 1), 15=373 (LC 3)

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

Tension TOP CHORD

1-15=-34/4, 8-9=-5/2, 1-2=0/0, 2-3=-716/152,

3-4=-889/386, 4-5=-889/386, 5-6=-378/976, 6-7=0/1490, 7-8=0/1514

**BOT CHORD** 14-15=-36/515, 13-14=-386/889,

12-13=-386/889, 11-12=-716/704,

10-11=-1206/42, 9-10=0/0

3-13=-168/36, 4-12=-252/0, 7-10=-2419/0,

6-10=-828/0, 6-11=0/560, 5-11=-591/0, 5-12=0/638, 2-15=-612/42, 2-14=-151/262,

3-14=-245/298, 8-10=-1738/0

## NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 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: 9-15=-7, 1-8=-67 Concentrated Loads (lb)

Vert: 7=-2300, 8=-810 (F=-700)



July 1,2025

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

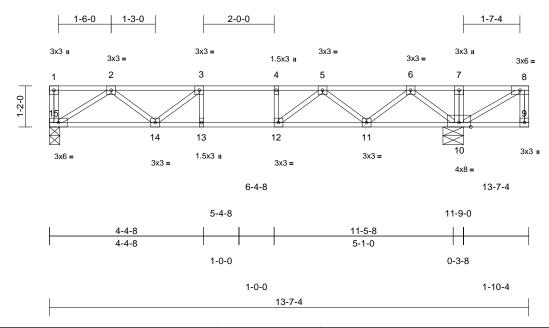
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	2F22	Floor	4	1	Job Reference (optional)	74557697

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:KqP897?Qla4B1M1OiCp1O2y8MUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



32.	ı
	32.

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	0.82	Vert(LL)	0.09	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	0.12	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 71 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 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 9-10.

REACTIONS (size) 10=0-7-0, 15=0-3-8 Max Uplift 15=-23 (LC 4)

Max Grav 10=1491 (LC 1), 15=373 (LC 3)

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

Tension

TOP CHORD 1-15=-34/4, 8-9=-4/3, 1-2=0/0, 2-3=-717/151,

3-4=-891/384, 4-5=-891/384, 5-6=-380/973,

6-7=0/1485, 7-8=0/1486 BOT CHORD

14-15=-35/516, 13-14=-384/891

12-13=-384/891, 11-12=-713/707,

10-11=-1205/44, 9-10=0/0

WEBS 3-13=-168/36, 4-12=-252/0, 7-10=-123/0,

6-10=-823/0, 6-11=0/561, 5-11=-592/0, 5-12=0/636, 8-10=-1707/0, 2-15=-613/42,

2-14=-151/262, 3-14=-245/298

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 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: 9-15=-7, 1-8=-67 Concentrated Loads (lb)

Vert: 8=-796 (F=-700)



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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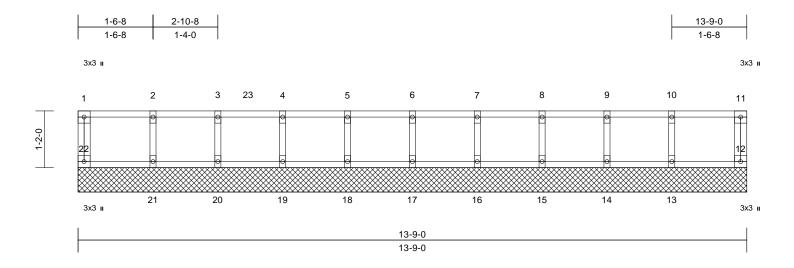
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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-6,7-Floor	
2411-0122-E	1FGE7	Floor Supported Gable	2	1	Job Reference (optional)	74557698

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:13 ID:ptwlxP?nVUSaVdL3yO1oM5zewEv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.7

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	0.56	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)
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)

(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 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.

- 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: 12-22=-8, 1-11=-80

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

SEAL 023594

ON GINEER AND July 1,2025

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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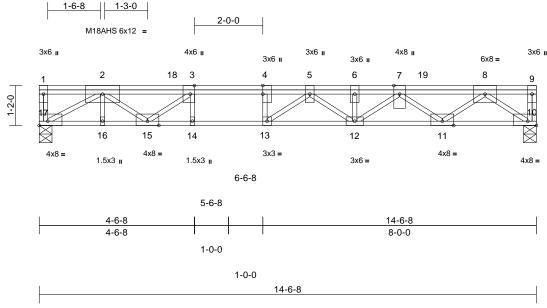
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TPI 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-6,7-Floor
2411-0122-E	1F14	Floor	16	1	Job Reference (optional)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:1XsRYEImOL1ywYKj?VTyTezewFq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.7

Plate Offsets (X, Y): [3:0-3-0,Edge], [4:0-3-0,Edge], [10:Edge,0-1-8], [17:Edge,0-1-8]

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	0.58	Vert(LL)	-0.10	12-13	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.78	Vert(CT)	-0.28	13-14	>608	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

Uniform Loads (lb/ft)

Vert: 10-17=-8, 1-9=-80

Vert: 18=-1062, 19=-875

Concentrated Loads (lb)

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

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) 10=0-4-8, 17=0-4-8

Max Grav 10=1589 (LC 1), 17=1606 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-2/31, 9-10=0/60, 1-2=0/0, 2-3=-4324/0,

3-4=-5771/0, 4-5=-5771/0, 5-6=-5354/0, 6-7=-5354/0, 7-8=-3719/0, 8-9=0/0

BOT CHORD 16-17=0/2804, 15-16=0/2804, 14-15=0/5771,

 $13\text{-}14\text{=}0/5771,\ 12\text{-}13\text{=}0/5608,\ 11\text{-}12\text{=}0/5152,$ 

10-11=0/2258

WEBS 8-10=-2772/0, 7-12=0/252, 6-12=0/96, 5-12=-317/0, 7-11=-1821/0, 3-14=-82/0,

4-13=-271/0, 8-11=-1621/0, 3-14=-62/0, 4-13=-271/0, 8-11=0/1855, 5-13=0/581, 2-15=0/1896, 3-15=-1806/0, 2-16=-20/0,

2-17=-3223/0

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 4) 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

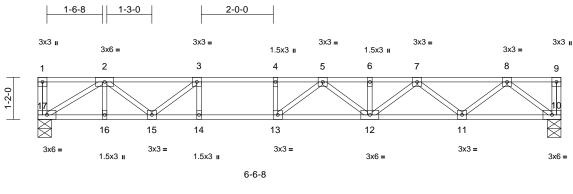


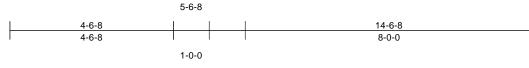


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F11	Floor	8	1	Job Reference (optional)	174557700

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:OLMv\_xB3mhsqHi3dHtv?NfzewMQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1-0-0

14-6-8

Sca	le	=	1	:3	2

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	0.42	Vert(LL)	-0.17	12-13	>984	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.24	12-13	>728	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.03	10	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

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=0-4-8, 17=0-4-8

Max Grav 10=629 (LC 1), 17=629 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

1-17=-60/0, 9-10=-31/0, 1-2=0/0, 2-3=-1416/0, 3-4=-2005/0, 4-5=-2005/0,

5-6=-2005/0, 6-7=-2005/0, 7-8=-1261/0,

8-9=0/0

**BOT CHORD** 16-17=0/935, 15-16=0/935, 14-15=0/2005,

13-14=0/2005, 12-13=0/2134, 11-12=0/1734,

**WEBS** 3-14=0/221, 4-13=-90/59, 8-10=-971/0,

8-11=0/635, 7-11=-616/0, 7-12=0/346, 6-12=-53/0, 5-12=-189/0, 5-13=-293/173,

2-15=0/614, 3-15=-766/0, 2-16=0/44,

2-17=-1091/0

### 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.

LOAD CASE(S) Standard



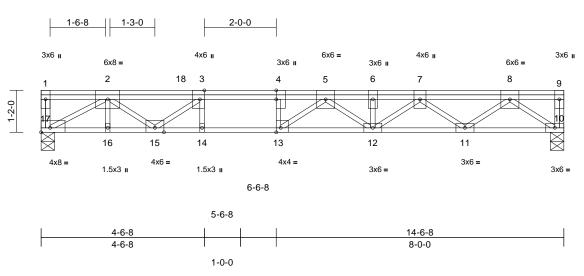
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F13	Floor	4	1	Job Reference (optional)	174557701

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:LY3x63qJHzXJ8rdptVMQ0qzewLb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:32

Plate Offsets (X, Y): [3:0-3-0,Edge], [4:0-3-0,Edge], [13:0-1-8,Edge], [17:Edge,0-1-8]

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	. ,	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.10	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.23	13-14	>745	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.06	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

14-6-8

1-0-0

Vert: 10-17=-8, 1-9=-80

Concentrated Loads (lb)

Vert: 18=-1097

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

2x4 SP No.3(flat)

**BRACING** 

LUMBER

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

bracing.

REACTIONS (size) 10=0-4-8, 17=0-4-8

Max Grav 10=918 (LC 1), 17=1437 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-17=0/62, 9-10=-40/0, 1-2=0/0, 2-3=-3750/0,

3-4=-4802/0, 4-5=-4802/0, 5-6=-3639/0, 6-7=-3639/0, 7-8=-2099/0, 8-9=0/0

**BOT CHORD** 16-17=0/2558, 15-16=0/2558, 14-15=0/4802,

13-14=0/4802, 12-13=0/4107, 11-12=0/2941,

10-11=0/1221

**WEBS** 2-15=0/1487, 3-15=-1313/0, 8-10=-1498/0, 8-11=0/1116, 7-11=-1069/0, 7-12=0/871,

6-12=-179/0, 5-12=-585/0, 5-13=0/1244, 3-14=-159/0, 4-13=-614/0, 2-16=-31/0,

2-17=-2940/0

#### NOTES

- 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)



July 1,2025

Page: 1

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

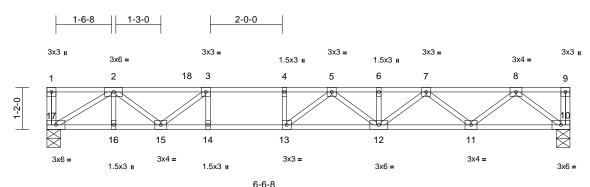
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F12	Floor	2	1	Job Reference (optional)	174557702

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 





14-6-8

1-0-0

Vert: 10-17=-8, 1-9=-80

Concentrated Loads (lb)

Vert: 18=-141

Scale = 1:32

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	0.42	Vert(LL)	-0.17	12-13	>984	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.22	12-13	>792	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.03	10	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) 10=0-4-8, 17=0-4-8

Max Grav 10=666 (LC 1), 17=733 (LC 1)

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

Tension

TOP CHORD 1-17=-47/0, 9-10=-31/0, 1-2=0/0,

2-3=-1698/0, 3-4=-2330/0, 4-5=-2330/0, 5-6=-2185/0, 6-7=-2185/0, 7-8=-1356/0,

8-9=0/0

**BOT CHORD** 16-17=0/1126, 15-16=0/1126, 14-15=0/2330,

13-14=0/2330, 12-13=0/2369, 11-12=0/1870,

**WEBS** 3-14=-45/162, 4-13=-121/27, 8-10=-1033/0, 8-11=0/694, 7-11=-668/0, 7-12=0/402,

6-12=-60/0, 5-12=-259/0, 5-13=-177/288, 2-15=0/731, 3-15=-820/0, 2-16=0/34,

2-17=-1314/0

### 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.

# LOAD CASE(S) Standard

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



July 1,2025

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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.

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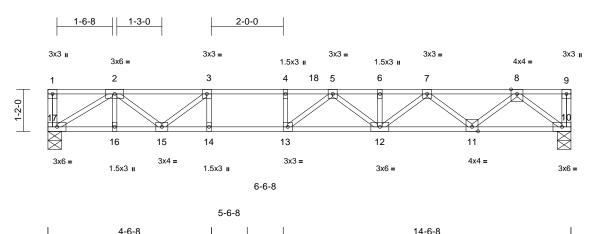


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
2411-0122-E	1F10	Floor	6	1	I74557703 Job Reference (optional)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:wLDF39ZR0jJD2i5dEyzpGhzewNE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

8-0-0

Page: 1



1-0-0 1-0-0 14-6-8

Scale = 1:32

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	0.62	Vert(LL)	-0.17	12-13	>984	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.31	12-13	>545	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

Vert: 10-17=-8, 1-9=-80

Vert: 10=-58, 7=-223, 18=-28

Concentrated Loads (lb)

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) 10=0-4-8, 17=0-4-8

Max Grav 10=864 (LC 1), 17=703 (LC 1)

4-6-8

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

Tension

TOP CHORD 1-17=-66/0, 9-10=-32/0, 1-2=0/0,

2-3=-1632/0, 3-4=-2389/0, 4-5=-2389/0, 5-6=-2607/0, 6-7=-2607/0, 7-8=-1702/0,

8-9=0/0

**BOT CHORD** 16-17=0/1049, 15-16=0/1049, 14-15=0/2389,

13-14=0/2389, 12-13=0/2673, 11-12=0/2392,

10-11=0/1005

**WEBS** 3-14=0/301, 4-13=-21/128, 8-10=-1261/0,

8-11=0/908, 7-11=-898/0, 7-12=0/275, 6-12=-37/0, 5-12=-109/0, 5-13=-490/0,

2-15=0/744, 3-15=-981/0, 2-16=0/55,

2-17=-1225/0

### 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.

# LOAD CASE(S) Standard

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



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

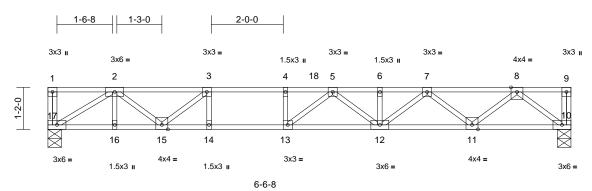
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F9	Floor	4	1	Job Reference (optional)	4557704

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:5NHi6gshRC7IjyEgOUSRSgzewO7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





1-0-0

14-6-8

Scal	e =	1:32
Scal	ะ =	1.32

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	0.79	Vert(LL)	-0.17	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.38	12-13	>452	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.04	10	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) 2x4 SP DSS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

**BRACING** 

**FORCES** 

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=0-4-8, 17=0-4-8

Max Grav 10=864 (LC 1), 17=779 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-72/0, 9-10=-32/0, 1-2=0/0,

2-3=-1852/0, 3-4=-2792/0, 4-5=-2792/0, 5-6=-2830/0, 6-7=-2830/0, 7-8=-1702/0,

8-9=0/0

**BOT CHORD** 16-17=0/1169, 15-16=0/1169, 14-15=0/2792,

13-14=0/2792, 12-13=0/3140, 11-12=0/2400,

10-11=0/1003

**WEBS** 3-14=0/402, 4-13=-35/108, 8-10=-1258/0,

8-11=0/909, 7-11=-909/0, 7-12=0/549, 6-12=0/47, 5-12=-422/0, 5-13=-572/0, 2-15=0/872, 3-15=-1214/0, 2-16=0/70,

2-17=-1365/0

### 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.

### LOAD CASE(S) Standard

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

Vert: 10-17=-8, 1-9=-80 Concentrated Loads (lb) Vert: 10=-58, 7=-47, 18=-280



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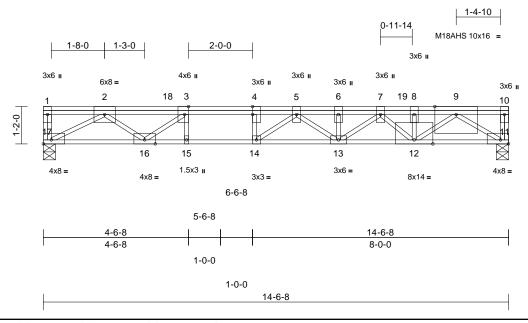
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGR1	Floor Girder	2	1	Job Reference (optional)	174557705

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:zlpeZ242xdQ8wBhV8VgWQZzewHO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36

Plate Offsets (X, Y): [3:0-3-0,Edge], [4:0-3-0,Edge], [11:Edge,0-1-8], [17: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	0.92	Vert(LL)	-0.10	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.41	13-14	>423	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.08	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER

WEBS

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

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

**BRACING** TOP CHORD

Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals.

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

bracing

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

Max Grav 11=2048 (LC 1), 17=1421 (LC 1)

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

Tension

TOP CHORD 1-17=-50/0, 10-11=-80/0, 1-2=0/0, 2-3=-3958/0, 3-4=-5551/0, 4-5=-5551/0,

5-6=-6266/0, 6-7=-6266/0, 7-8=-5646/0,

8-9=-5646/0, 9-10=0/0

**BOT CHORD** 16-17=0/2482, 15-16=0/5551, 14-15=0/5551,

13-14=0/6140, 12-13=0/6353, 11-12=0/3011 **WEBS** 

3-15=0/120, 4-14=0/445, 2-17=-2828/0, 2-16=0/1875, 3-16=-1987/0, 7-13=-213/0,

6-13=0/69, 5-13=0/207, 5-14=-859/0,

9-11=-3588/0, 9-12=0/3287, 8-12=-1306/0,

7-12=-965/0

### 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: 18=-696, 19=-1725

July 1,2025

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

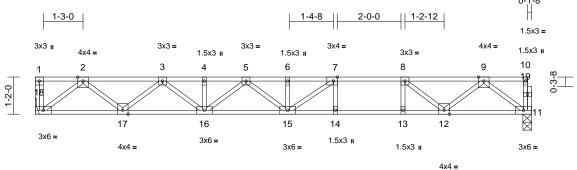
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F16	Floor	4	1	Job Reference (optional)	174557706

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





11-6-0 10-6-0 9-6-0 15-7-4 9-6-0 4-1-4 1-0-0

> 1-0-0 15-7-4

Scale = 1:36.2

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		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



July 1,2025

Page: 1

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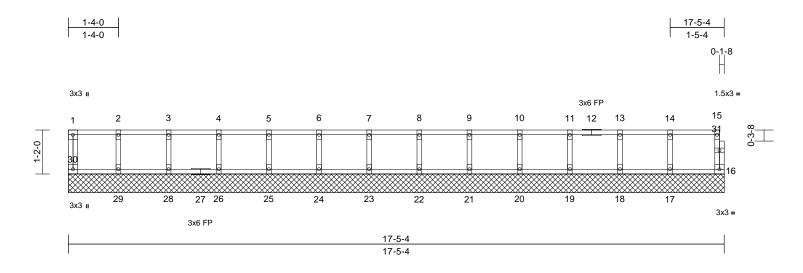


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FGE4	Floor Supported Gable	2	1	Job Reference (optional)	174557707

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:18 ID:dSrCBKIT5y6nv2t?6FFgM5y8MTt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.6

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	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

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)

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

BOT CHORD 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

- 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.
- 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.

### 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



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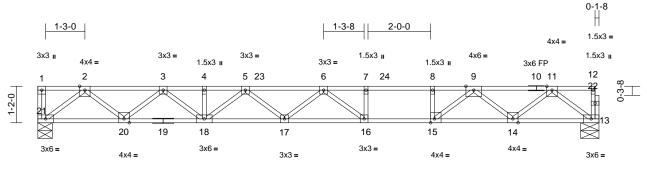
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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-6,7-Floor	
2411-0122-E	2F26A	Floor	2	1	Job Reference (optional)	7708

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:17 ID:ehsevcSoehPMAXWyOkEbQdzvFV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



MT20HS 3x8 FP



1-0-0

12-6-8

17-11-0

Scale = 1:36.8

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

Loading	(psf)	Spacing	1-8-0	csı		DEFL	in	(loc)	l/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							Weight: 90 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat)

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

(flat)

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

**BRACING** 

**FORCES** 

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) (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

- 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.

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

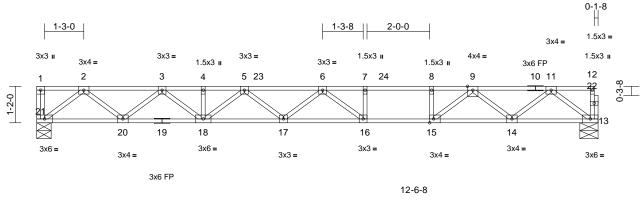




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F26	Floor	4	1	Job Reference (optional)	74557709

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:17 ID:ehsevcSoehPMAXWyOkEbQdzvFV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





17-11-0

1-0-0

Scale = 1:36.8

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

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	. ,	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

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

(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



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

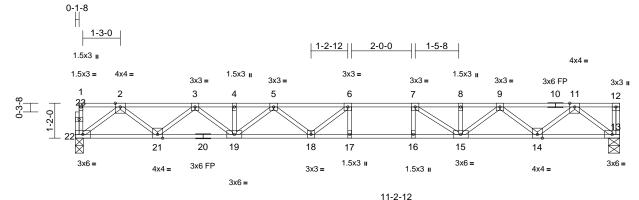
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	2F5	Floor	2	1	Job Reference (optional)	174557710

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:Dbee?U2wpobdWzL9x2uzYuy8MUB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



10-2-12 9-2-12 18-2-4 9-2-12 6-11-8 1-0-0 1-0-0

18-2-4

Scale = 1:38.5

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, 7-8=-2761/0, 8-9=-2761/0, 9-11=-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, 9-14=-841/0, 9-15=0/566, 8-15=-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



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

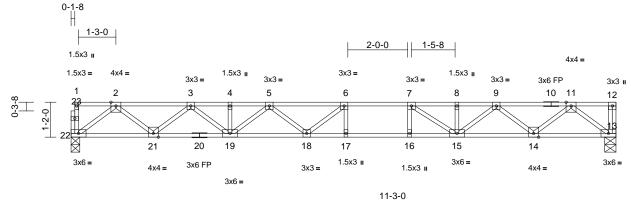
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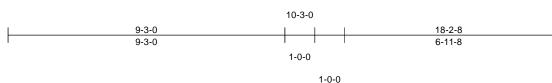


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F6	Floor	10	1	Job Reference (optional)	74557711

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:hoC1Cq3YZ6jU77wMUIPC55y8MUA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





18-2-8

Scale = 1:38.5

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	0.68	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)

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

(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, 7-8=-2765/0, 8-9=-2765/0, 9-11=-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, 9-14=-843/0, 9-15=0/567, 8-15=-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



July 1,2025

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

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

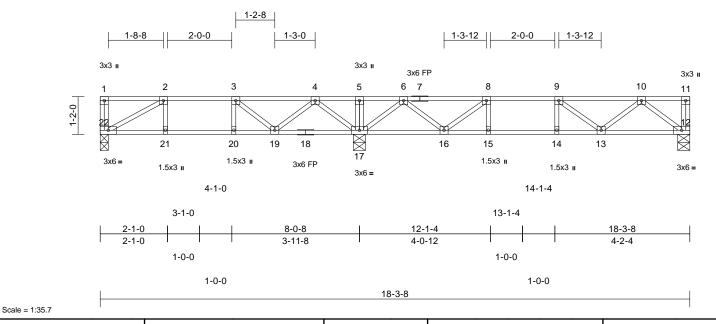


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F3A	Floor	12	1	Job Reference (optional)	74557713

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:11 ID:fXB0\_hEqIRbRTVQ0EDjc8WzeweR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading (ps	sf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 40	0.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.06	13-14	>999	480	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.08	13-14	>999	360		
BCLL 0	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	12	n/a	n/a		
BCDL 5	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) **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, Except: 6-0-0 oc bracing: 17-19,16-17.

**REACTIONS** (size) 12=0-4-8, 17=0-4-8, 22=0-3-0

12=414 (LC 4), 17=931 (LC 1), Max Grav

22=309 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-75/0, 11-12=-25/0, 1-2=0/0, 2-3=-460/0, 3-4=-303/47, 4-5=0/670,

5-6=0/670, 6-8=-575/99, 8-9=-916/0, 9-10=-723/0, 10-11=0/0

**BOT CHORD** 21-22=0/460, 20-21=0/460, 19-20=0/460,

17-19=-157/103, 16-17=-242/270, 15-16=0/916, 14-15=0/916, 13-14=0/916,

12-13=0/503

**WEBS** 2-21=-2/52, 3-20=-33/39, 5-17=-77/0,

8-15=0/127, 9-14=-102/4, 2-22=-525/0, 4-17=-644/0, 4-19=0/337, 3-19=-318/0, 6-17=-750/0, 6-16=0/460, 8-16=-528/0,

10-12=-631/0, 10-13=0/286, 9-13=-242/47

### **NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 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.

### 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: 1=-11



July 1,2025

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

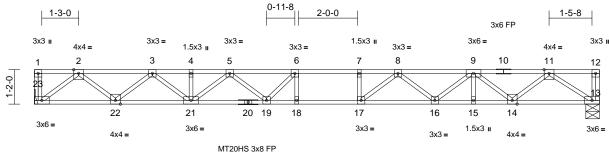
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F10	Floor	14	1	Job Reference (optional)	4557714

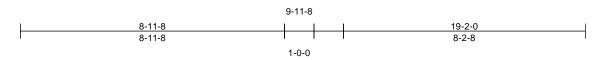
Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:15 ID:1UUUhjw1OQCBhH?2nEBObZy8MUM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



1.5x3 = 1.5x3 II 3x3 =

10-11-8



1-0-0 19-2-0

Scale = 1:39.1

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	0.61	Vert(LL)	-0.33	18	>695	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.45	18	>507	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	13	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)

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

(flat)

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing, Except: 2-2-0 oc bracing: 19-21.

**REACTIONS** (size) 13=0-5-8, 23= Mechanical

Max Grav 13=832 (LC 1), 23=832 (LC 1)

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

Tension

TOP CHORD 1-23=-32/0, 12-13=-44/0, 1-2=0/0,

2-3=-1775/0, 3-4=-2995/0, 4-5=-2995/0, 5-6=-3616/0, 6-7=-3731/0, 7-8=-3731/0, 8-9=-3055/0, 9-11=-1895/0, 11-12=0/0

BOT CHORD 22-23=0/1043, 21-22=0/2480, 19-21=0/3419,

18-19=0/3731, 17-18=0/3731, 16-17=0/3469,

15-16=0/2622, 14-15=0/2622, 13-14=0/1180

6-18=-189/138, 7-17=-225/0, 2-23=-1308/0, 2-22=0/953, 3-22=-918/0, 3-21=0/658,

4-21=-54/0, 5-21=-542/0, 5-19=0/397,

6-19=-444/141, 11-13=-1412/0, 11-14=0/931,

9-14=-927/0. 9-15=-17/35. 9-16=0/553.

8-16=-540/0, 8-17=-28/598

### NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 20 = 12%
- 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



July 1,2025

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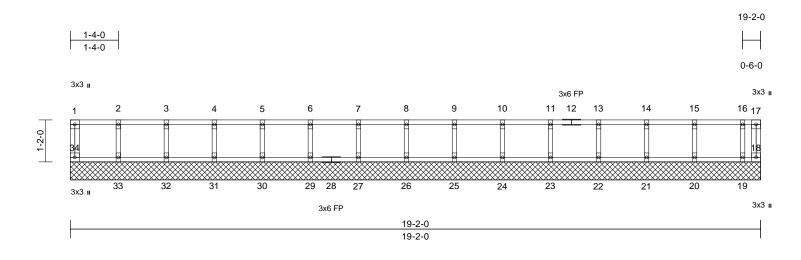
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FGE2	Floor Supported Gable	2	1	I74557715 Job Reference (optional)	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:18 ID:DtA4ZIFbo1kC2a8QQ6izkTy8MTw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32

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	0.02	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, 29=19-2-0, 30=19-2-0, 31=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), 29=117 (LC 1), 30=117 (LC 1), 31=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

BOT CHORD 33-34=0/5, 32-33=0/5, 31-32=0/5, 30-31=0/5,

29-30=0/5, 27-29=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, 4-31=-107/0,

5-30=-107/0, 6-29=-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



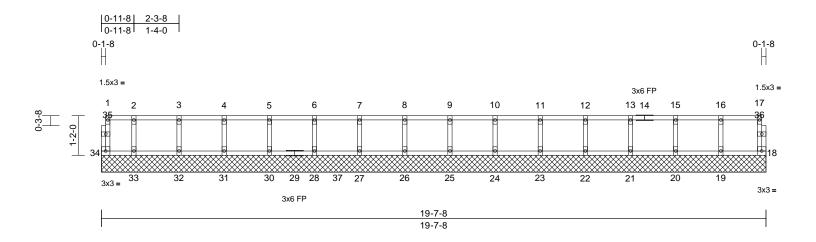
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1FGE6	Floor Supported Gable	2	1	Job Reference (optional)	74557716

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:13 

Page: 1



Scale = 1:34

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	0.04	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) 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)

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  $33\text{-}34\text{=}0/7,\, 32\text{-}33\text{=}0/7,\, 31\text{-}32\text{=}0/7,\, 30\text{-}31\text{=}0/7,\,$ 

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, 19-20=0/7, 18-19=0/7

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

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

Concentrated Loads (lb)

Vert: 1=-3, 37=-19



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

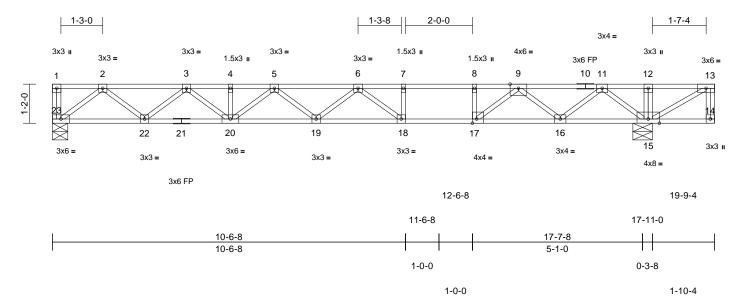
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	2F24	Floor	4	1	Job Reference (optional)	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:17 ID:BhD\_FilW17SRq8pm9vVfbbzvBRI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.4 Plate Offsets (X, Y): [17:0-1-8,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	0.80	Vert(LL)	-0.26	18-19	>801	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.36	18-19	>596	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

19-9-4

### LUMBER

TOP CHORD 2x4 SP SS(flat) \*Except\* 10-13:2x4 SP No.2

(flat)

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

REACTIONS 15=0-7-0, 23=0-5-8 (size)

> Max Grav 15=1978 (LC 1), 23=587 (LC 3) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension

TOP CHORD 1-23=-26/0, 13-14=-11/0, 1-2=0/0, 2-3=-1215/0, 3-4=-1964/0, 4-5=-1964/0,

5-6=-2261/124, 6-7=-1819/622, 7-8=-1819/622, 8-9=-1819/622, 9-11=-452/1365, 11-12=0/1969,

12-13=0/1970

BOT CHORD 22-23=0/730, 20-22=0/1671, 19-20=-42/2194,

18-19=-281/2226, 17-18=-622/1819,

16-17=-1048/1106, 15-16=-1641/0, 14-15=0/0

WEBS 7-18=0/285, 8-17=-489/0, 12-15=-126/0,

2-23=-916/0, 2-22=0/630, 3-22=-594/10, 3-20=-56/375, 4-20=-58/0, 5-20=-293/89 5-19=-107/92, 6-19=-27/221, 6-18=-797/0,

11-15=-1143/0, 11-16=0/847, 9-16=-962/0, 9-17=0/1164, 13-15=-2263/0

### NOTES

- 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.
- 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 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: 14-23=-7. 1-13=-67 Concentrated Loads (lb) Vert: 13=-1075 (F=-700)



July 1,2025

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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F24A	Floor	2	1	Job Reference (optional)	174557718

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:17 ID:BhD\_FilW17SRq8pm9vVfbbzvBRI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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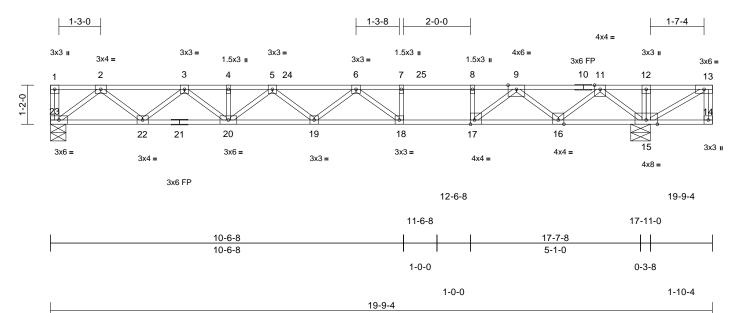


Plate Offsets (X, Y): [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-8-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	. ,	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.33	18-19	>641	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.46	18-19	>465	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

### LUMBER

Scale = 1:34.4

TOP CHORD 2x4 SP SS(flat) \*Except\* 10-13:2x4 SP No.2

(flat)

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

REACTIONS 15=0-7-0, 23=0-5-8 (size)

Max Grav 15=1934 (LC 1), 23=777 (LC 3)

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

Tension

TOP CHORD 1-23=-33/0, 13-14=-10/0, 1-2=0/0, 2-3=-1625/0, 3-4=-2667/0, 4-5=-2667/0,

5-6=-3135/0, 6-7=-2717/189, 7-8=-2717/189,

8-9=-2717/189, 9-11=-1129/949,

11-12=0/1604, 12-13=0/1605

BOT CHORD 22-23=0/969, 20-22=0/2247, 19-20=0/3008,

18-19=0/3147, 17-18=-189/2717, 16-17=-618/1901, 15-16=-1246/427,

14-15=0/0

**WEBS** 7-18=-29/301, 8-17=-559/0, 12-15=-151/0,

2-23=-1215/0. 2-22=0/854. 3-22=-809/0. 3-20=0/537, 4-20=-70/0, 5-20=-435/21, 5-19=-58/173, 6-19=-106/182, 6-18=-859/0, 11-15=-1364/0, 11-16=0/996, 9-16=-1116/0,

9-17=0/1322, 13-15=-1843/0

### 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 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: 14-23=-8, 1-24=-83, 24-25=-86, 13-25=-83

Concentrated Loads (lb) Vert: 13=-852 (F=-700)



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-6,7-Floor	
2411-0122-E	2F25	Floor Girder	2	1	Job Reference (optional)	174557719

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:17 ID:8mc0MWOPXz71SZzqE1a\_ZszvBP3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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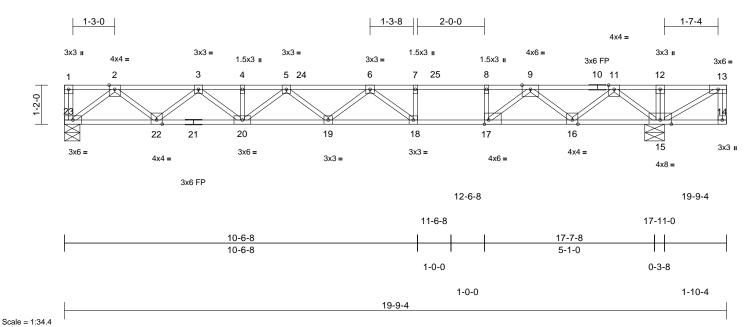


Plate Offsets (X, Y): [17:0-1-8,Edge]

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	18-19	>641	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.49	18-19	>435	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.05	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 SS(flat) \*Except\* 10-13:2x4 SP No.2

(flat)

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

6-0-0 oc bracing: 16-17,15-16.

REACTIONS 15=0-7-0, 23=0-5-8 (size)

Max Grav 15=1901 (LC 1), 23=806 (LC 3) (lb) - Maximum Compression/Maximum

**FORCES** 

TOP CHORD 1-23=-33/0, 13-14=-10/0, 1-2=0/0,

2-3=-1699/0, 3-4=-2812/0, 4-5=-2812/0, 5-6=-3348/0, 6-7=-2924/0, 7-8=-2924/0, 8-9=-2924/0, 9-11=-1267/812, 11-12=0/1512,

12-13=0/1513

BOT CHORD 22-23=0/1007, 20-22=0/2356, 19-20=0/3194,

18-19=0/3380, 17-18=0/2924, 16-17=-454/2064, 15-16=-1129/544,

14-15=0/0

WEBS 7-18=-19/310 8-17=-581/0 12-15=-150/0 2-23=-1264/0, 2-22=0/900, 3-22=-855/0,

3-20=0/583, 4-20=-66/0, 5-20=-488/0, 5-19=-24/207, 6-19=-132/155, 6-18=-893/0, 11-15=-1396/0, 11-16=0/1023, 9-16=-1151/0,

9-17=0/1376, 13-15=-1738/0

### NOTES

- 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.
- 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: 14-23=-8, 1-24=-83, 24-25=-98, 13-25=-83

Concentrated Loads (lb) Vert: 13=-800 (F=-700)



July 1,2025

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

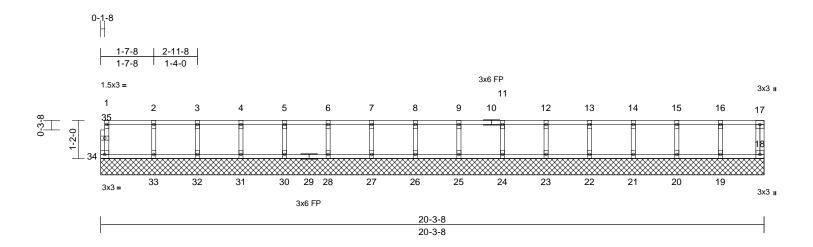
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	1FGE1	Floor Supported Gable	2	1	Job Reference (optional)	174557720

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:13 ID:3FAaEjRY1YmQ2bIgQXRSZBzewXj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.2

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	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) 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)

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, 27=20-3-8, 28=20-3-8, 30=20-3-8, 31=20-3-8, 32=20-3-8, 33=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=-45/0, 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, 9-11=-9/0, 11-12=-9/0, 12-13=-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

WEBS 16-19=-85/0, 15-20=-90/0, 14-21=-89/0,

13-22=-89/0, 12-23=-89/0, 11-24=-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

NOTES

- 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.
- 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



July 1,2025

Edenton, NC 27932

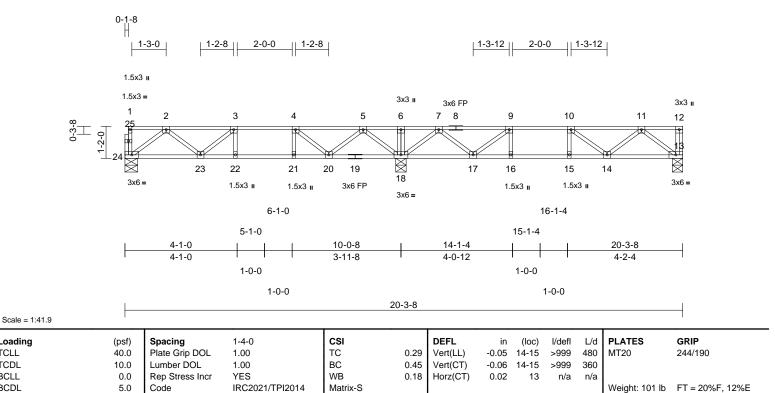
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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-6,7-Floor	
2411-0122-E	1F1	Floor	14	1	Job Reference (optional)	174557721

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:10 ID:XtcheEvqwF9sgunSSpqRJjzewlJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



LUMBER

Loading

TCLL

TCDI

**BCLL** 

BCDL

LOAD CASE(S) Standard

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

**BRACING** 

**BOT CHORD** 

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

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, 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**

- 1) Unbalanced floor live loads have been considered for 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.



July 1,2025

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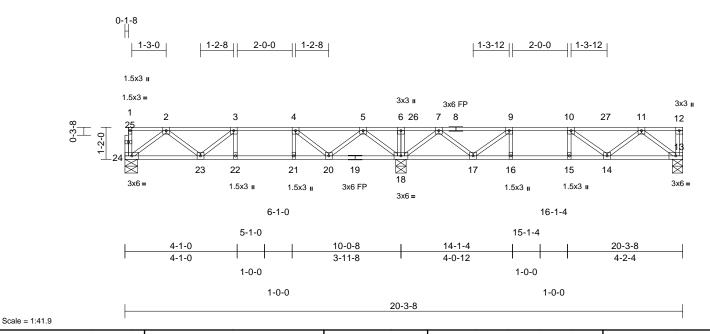
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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-6,7-Floor	
2411-0122-E	1F2	Floor	8	1	Job Reference (optional)	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:11 ID:RORMEv9Y5P\_?rGp\_4FjaMOzemTI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	0.54	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	0.29	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=512 (LC 7), 18=1148 (LC 1), Max Grav

24=316 (LC 10)

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

Tension

TOP CHORD 1-24=-18/1, 12-13=-16/3, 1-2=-1/0, 2-3=-541/0, 3-4=-647/4, 4-5=-349/165, 5-6=0/685, 6-7=0/685, 7-9=-897/0,

9-10=-1376/0, 10-11=-1009/0, 11-12=0/0 23-24=0/387, 22-23=-4/647, 21-22=-4/647,

**BOT CHORD** 20-21=-4/647, 18-20=-299/77, 17-18=0/462 16-17=0/1376, 15-16=0/1376, 14-15=0/1376,

13-14=0/644

**WEBS** 3-22=-100/0, 4-21=0/121, 6-18=-74/0, 9-16=0/86, 10-15=-66/18, 2-24=-484/0 2-23=-4/201, 3-23=-137/76, 5-18=-633/0,

5-20=0/412, 4-20=-473/0, 7-18=-1126/0, 7-17=0/619, 9-17=-683/0, 11-13=-808/0, 11-14=0/475, 10-14=-461/0

### NOTES

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

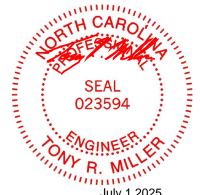
5) CAUTION, Do not erect truss backwards.

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, 26-27=-134, 12-27=-67



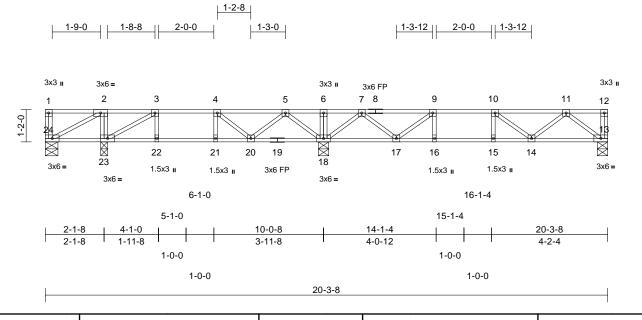
July 1,2025



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	1F4A	Floor	1	1	Job Reference (optional)	174557724

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:11 ID:8nuj2ry3wunhW4\_YCX3Ps?zUhi3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.06	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:41.6

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 (size) 13=0-4-8, 18=0-4-8, 23=0-3-0,

24=0-5-8

Max Uplift 24=-10 (LC 11)

Max Grav 13=410 (LC 5), 18=936 (LC 12),

23=444 (LC 11), 24=141 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-71/0, 12-13=-24/0, 1-2=0/0,

2-3=-128/149, 3-4=-530/23, 4-5=-352/105,

5-6=0/711, 6-7=0/711, 7-9=-544/91, 9-10=-895/0, 10-11=-712/0, 11-12=0/0

**BOT CHORD** 23-24=-149/128, 22-23=-23/530,

21-22=-23/530, 20-21=-23/530,

18-20=-202/137, 17-18=-232/233 16-17=0/895, 15-16=0/895, 14-15=0/895,

13-14=0/498

3-22=0/47, 4-21=-27/20, 6-18=-78/0,

9-16=0/124, 10-15=-99/0, 2-24=-145/168, 3-23=-466/0, 5-18=-638/0, 5-20=0/328,

4-20=-300/0, 7-18=-747/0, 7-17=0/457, 9-17=-523/0, 11-13=-624/0, 11-14=0/278,

10-14=-230/44, 2-23=-256/0

### NOTES

**WEBS** 

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 24.

- 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



July 1,2025

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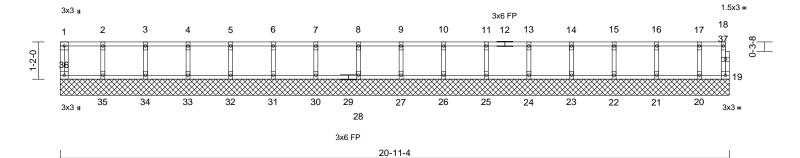
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2FGE3	Floor Supported Gable	2	1	Job Reference (optional)	74557725

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:18 ID:9FIq\_\_HrKe\_wHulpYXkRpuy8MTu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:36.1

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	0.05	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	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 88 lb	FT = 20%F, 12%E

20-11-4

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)

19=20-11-4, 20=20-11-4, 21=20-11-4, 22=20-11-4, 23=20-11-4, 24=20-11-4, 25=20-11-4, 26=20-11-4, 27=20-11-4, 28=20-11-4, 30=20-11-4, 31=20-11-4, 32=20-11-4, 33=20-11-4, 34=20-11-4, 35=20-11-4, 36=20-11-4

Max Grav 19=22 (LC 1), 20=79 (LC 1), 21=102 (LC 1), 22=97 (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=98 (LC 1), 32=98 (LC 1), 33=98 (LC 1), 34=98 (LC 1), 35=98 (LC 1), 36=39 (LC 1)

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

Tension

1-36=-36/0, 18-19=-18/0, 1-2=-4/0, 2-3=-4/0, 3-4=-4/0, 4-5=-4/0, 5-6=-4/0, 6-7=-4/0, 7-8=-4/0, 8-9=-4/0, 9-10=-4/0, 10-11=-4/0, 11-13=-4/0, 13-14=-4/0, 14-15=-4/0, 15-16=-4/0, 16-17=-4/0, 17-18=-4/0

BOT CHORD

TOP CHORD

35-36=0/4, 34-35=0/4, 33-34=0/4, 32-33=0/4, 31-32=0/4, 30-31=0/4, 28-30=0/4, 27-28=0/4, 26-27=0/4, 25-26=0/4, 24-25=0/4, 23-24=0/4, 22-23=0/4, 21-22=0/4, 20-21=0/4, 19-20=0/4

**WEBS** 2-35=-88/0, 3-34=-89/0, 4-33=-89/0,

5-32=-89/0, 6-31=-89/0, 7-30=-89/0, 8-28=-89/0, 9-27=-89/0, 10-26=-89/0, 11-25=-89/0, 13-24=-89/0, 14-23=-89/0, 15-22=-88/0, 16-21=-92/0, 17-20=-74/0

### 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 1,2025

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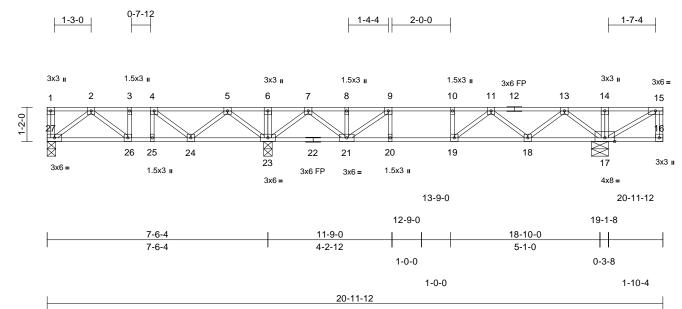
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F23A	Floor	2	1	Job Reference (optional)	174557726

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:16 ID:KqP897?Qla4B1M1OiCp1O2y8MUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.2

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	0.87	Vert(LL)	-0.08	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	0.13	18-19	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.02	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 111 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

### **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: 16-17.

**REACTIONS** (size) 17=0-7-0, 23=0-3-8, 27=0-3-8

Max Uplift 27=-11 (LC 4)

17=1772 (LC 4), 23=734 (LC 3), Max Grav

27=222 (LC 14)

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

Tension TOP CHORD

1-27=-37/0, 15-16=-5/1, 1-2=0/0,

2-3=-333/117, 3-4=-333/117, 4-5=-194/267,

5-6=0/786, 6-7=0/786, 7-8=-235/590, 8-9=-235/590, 9-10=-394/887, 10-11=-394/887, 11-13=0/1477, 13-14=0/1990, 14-15=0/1991

**BOT CHORD** 26-27=-34/237, 25-26=-117/333,

24-25=-117/333, 23-24=-410/38, 21-23=-542/0, 20-21=-887/394, 19-20=-887/394, 18-19=-1217/207,

17-18=-1710/0. 16-17=0/0

6-23=-86/0, 9-20=-110/22, 10-19=-234/0, WEBS

14-17=-127/0, 7-23=-534/72, 7-21=-61/372, 13-17=-807/0, 13-18=0/550, 11-18=-571/0, 11-19=0/553, 8-21=-168/8, 9-21=-230/364, 15-17=-2287/0, 5-23=-562/0, 2-27=-297/42, 5-24=0/314, 2-26=-107/123, 4-24=-309/0,

3-26=-40/50, 4-25=-24/53

### NOTES

- Unbalanced floor live loads have been considered for 1)
- 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
- 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: 16-27=-7, 1-15=-67 Concentrated Loads (lb) Vert: 15=-1084 (F=-700)



July 1,2025

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

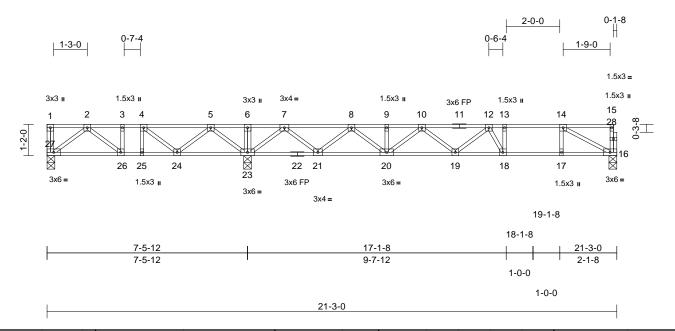
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F12	Floor	10	1	Job Reference (optional)	174557727

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:15 ID:1UUUhjw1OQCBhH?2nEBObZy8MUM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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	0.69	Vert(LL)	-0.14	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.20	18-19	>837	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.01	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 12%E

### LUMBER

Scale = 1:43

2x4 SP No.2(flat) TOP CHORD 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) 16=0-3-8, 23=0-3-8, 27=0-3-8

Max Uplift 27=-140 (LC 4)

16=381 (LC 4), 23=1124 (LC 1), Max Grav

27=191 (LC 3)

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

TOP CHORD

BOT CHORD

1-27=-36/1, 15-16=-37/40, 1-2=0/0,

2-3=-243/492, 3-4=-243/492, 4-5=-59/848, 5-6=0/1617, 6-7=0/1617, 7-8=0/345,

8-9=-605/0, 9-10=-605/0, 10-12=-951/0, 12-13=-756/0, 13-14=-756/0, 14-15=-2/2 26-27=-206/195, 25-26=-492/243,

24-25=-492/243, 23-24=-1152/0, 21-23=-863/0, 20-21=-30/275, 19-20=0/869,

18-19=0/946, 17-18=0/756, 16-17=0/756 WEBS 6-23=-74/0. 13-18=-14/233. 14-17=0/123.

5-23=-743/0, 2-27=-245/258, 5-24=0/505 2-26=-366/61, 4-24=-550/0, 3-26=-16/144, 4-25=-6/151, 7-23=-957/0, 7-21=0/683, 8-21=-658/0, 8-20=0/436, 9-20=-46/0, 10-20=-350/0, 10-19=0/122, 12-19=-75/7

12-18=-390/0, 14-16=-858/0

### NOTES

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



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

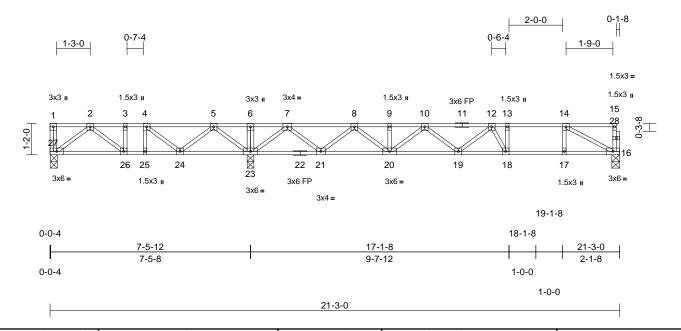
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	2F14	Floor	6	1	Job Reference (optional)	174557728

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:15 ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	0.69	Vert(LL)	-0.14	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.20	18-19	>837	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.01	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 12%E

### LUMBER

Scale = 1:43

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

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

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

bracing.

REACTIONS (size) 16=0-3-8, 23=0-3-0, 27=0-3-0

Max Uplift 27=-140 (LC 4)

16=381 (LC 4), 23=1124 (LC 1), Max Grav

27=191 (LC 3)

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

TOP CHORD 1-27=-36/1, 15-16=-37/40, 1-2=0/0,

2-3=-243/492, 3-4=-243/492, 4-5=-59/848,

5-6=0/1617, 6-7=0/1617, 7-8=0/345, 8-9=-605/0, 9-10=-605/0, 10-12=-951/0, 12-13=-756/0, 13-14=-756/0, 14-15=-2/2

BOT CHORD 26-27=-206/195, 25-26=-492/243,

24-25=-492/243, 23-24=-1152/0,

21-23=-863/0, 20-21=-30/275, 19-20=0/869, 18-19=0/946, 17-18=0/756, 16-17=0/756

WEBS 6-23=-74/0. 13-18=-14/233. 14-17=0/123.

5-23=-743/0, 2-27=-245/258, 5-24=0/505 2-26=-366/61, 4-24=-550/0, 3-26=-16/144, 4-25=-6/151, 7-23=-957/0, 7-21=0/683, 8-21=-658/0, 8-20=0/436, 9-20=-46/0, 10-20=-350/0, 10-19=0/122, 12-19=-75/7,

12-18=-390/0, 14-16=-858/0

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.

- 4) 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.
- 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.

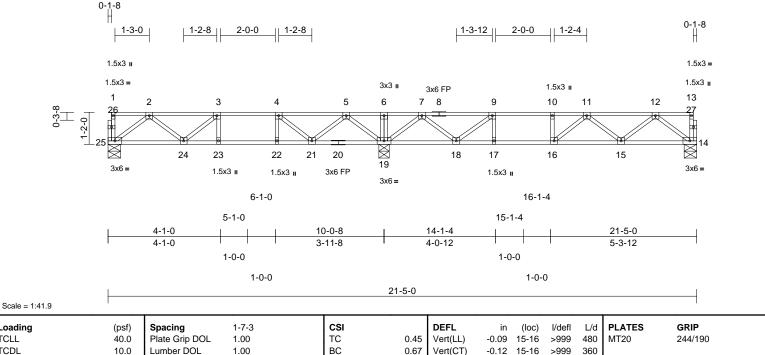
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor
2411-0122-E	1F5	Floor	2	1	Job Reference (optional)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:12 ID:9wzDLEVFSHeWvT8IIATnJYzewTm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading TCLL TCDI Vert(CT) **BCLL** 0.0 Rep Stress Incr YES WB 0.25 Horz(CT) 0.02 14 n/a n/a BCDL Code IRC2021/TPI2014 Matrix-S Weight: 106 lb FT = 20%F, 12%E

LUMBER

LOAD CASE(S) Standard

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

**BRACING** 

**BOT CHORD** 

**BOT CHORD** 

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

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 19-21,18-19. REACTIONS (size) 14=0-5-8, 19=0-4-8, 25=0-5-8

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

- 1) Unbalanced floor live loads have been considered for 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.



July 1,2025

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

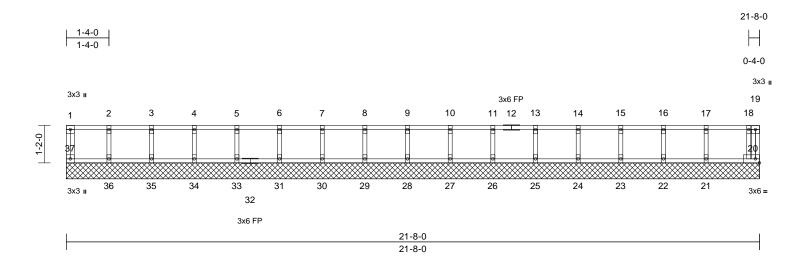
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-6,7-Floor	
2411-0122-E	2FGE1	Floor Supported Gable	2	1	Job Reference (optional)	174557730

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:17 ID: IgchLyEz1 jcLQQZEtPAkBGy8MTx-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for the property of the propert

Page: 1



Scale = 1:36

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	0.07	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



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-6,7-Floor	
2411-0122-E	2F1A	Floor	6	1	Job Reference (optional)	57731

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:dvoM3it86VqcqpGT66eh\_xy8MUP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

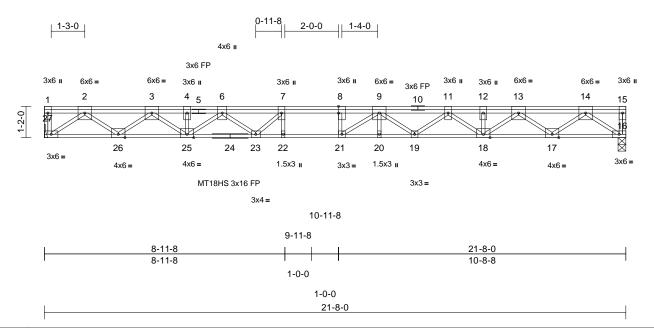


Plate Offsets (X, Y): [8:0-3-0,Edge]

Loading	(psf)	Spacing	1-10-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.42	20-21	>614	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.58	20-21	>447	360	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** 

LUMBER

Scale = 1:42.9

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) (lb) - Maximum Compression/Maximum

**FORCES** 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,

9-11=-5357/0, 11-12=-4307/0, 12-13=-4307/0, 13-14=-2477/0, 14-15=0/0

BOT CHORD 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, 11-18=-818/0, 11-19=0/501, 9-19=-473/0,

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

### NOTES

- 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.



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

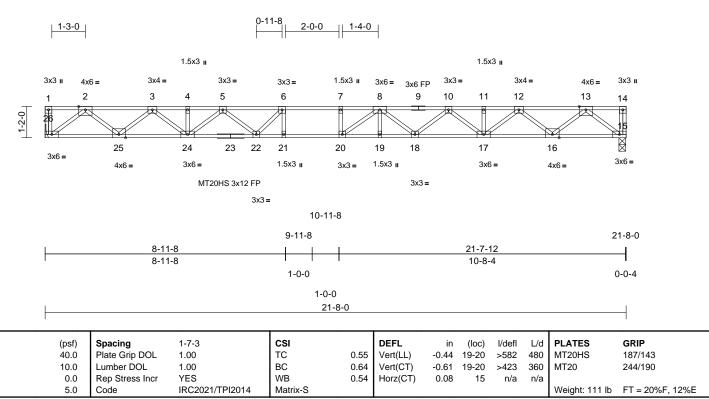
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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-6,7-Floor	
2411-0122-E	2F2	Floor	6	1	I745 Job Reference (optional)	557732

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:wFj?X5zXSficAulp04GKmPy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ficAulp04GKwpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GKwpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GKwpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GKwpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnL8w3ulp04GMWpy8MUI-RfC?PsB70Hq3NSgPqnWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8MUI-RfC?PsB70Hq404GMWpy8

Page: 1



Ц	JN	ИB	F	R

TCLL

TCDI

**BCLL** 

BCDL

Scale = 1:43 Loading

TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 2x4 SP DSS(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) 15=0-3-0, 26= Mechanical Max Grav 15=942 (LC 1), 26=942 (LC 1)

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

Tension

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,

8-10=-4424/0, 10-11=-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, 10-17=-720/0 10-18=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



July 1,2025

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)

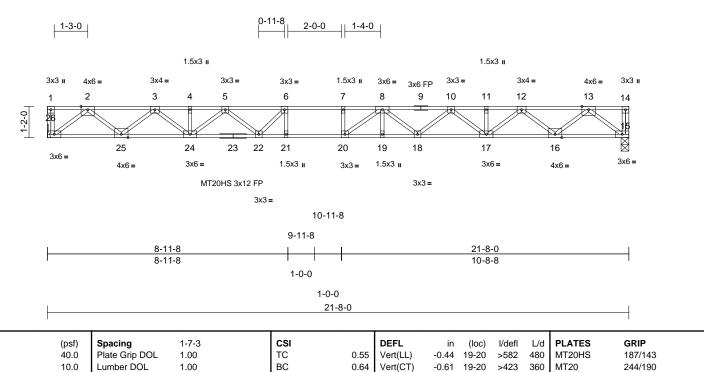


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F1	Floor	4	1	Job Reference (optional)	174557733

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:dvoM3it86VqcqpGT66eh\_xy8MUP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



0.54

Horz(CT)

0.08

15

n/a n/a

Weight: 111 lb

FT = 20%F, 12%E

IRA	_	D
JΙVΙ		

TCLL

TCDI

**BCLL** 

BCDL

Scale = 1:42.9 Loading

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

0.0

Rep Stress Incr

Code

YES

IRC2021/TPI2014

WB

Matrix-S

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, 8-10=-4424/0, 10-11=-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, 10-17=-720/0 10-18=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



July 1,2025



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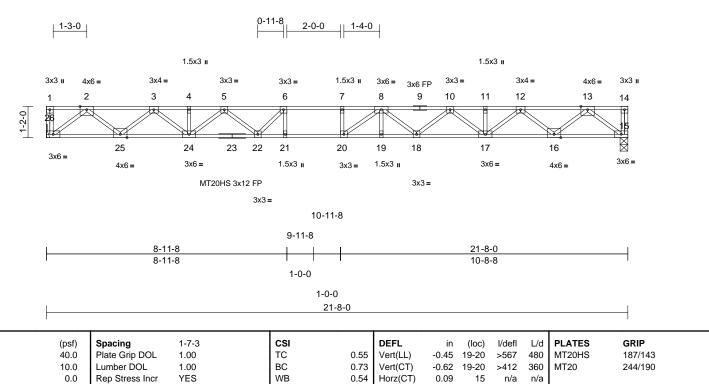
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F4	Floor	2	1	Job Reference (optional)	174557734

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:14 ID:IP4Gn81I2VTmupmzNKNk?gy8MUC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



LU	M	В	Е	R	

TCLL

TCDI

**BCLL** 

BCDL

Scale = 1:42.9 Loading

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

15=0-3-8, 26= Mechanical Max Grav 15=942 (LC 1), 26=942 (LC 1)

Code

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

Tension 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,

8-10=-4424/0, 10-11=-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, 10-17=-720/0 10-18=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



Weight: 111 lb

FT = 20%F, 12%E

July 1,2025

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IRC2021/TPI2014

Matrix-S

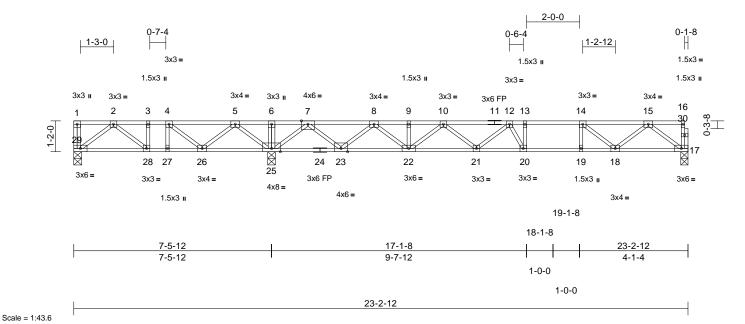
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F16A	Floor	2	1	Job Reference (optional)	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Mon Jun 30 05:28:16 ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



BCDL LUMBER

Loading

TCLL

TCDI

**BCLL** 

2x4 SP No.2(flat) TOP CHORD

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

(psf)

40.0

10.0

0.0

5.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

(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 6-0-0 oc

bracing.

REACTIONS (size) 17=0-3-4, 25=0-3-8, 29=0-3-8

Max Uplift 29=-204 (LC 4)

17=705 (LC 4), 25=1764 (LC 1), Max Grav

29=286 (LC 3)

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

Tension

TOP CHORD 1-29=-54/1, 16-17=-50/0, 1-2=0/0,

2-3=-363/719, 3-4=-363/719, 4-5=-87/1242, 5-6=0/2361, 6-7=0/2361, 7-8=0/308,

8-9=-1371/0, 9-10=-1371/0, 10-12=-2085/0, 12-13=-2051/0, 13-14=-2051/0,

14-15=-1400/0, 15-16=-3/0 28-29=-300/292, 27-28=-719/363,

BOT CHORD 26-27=-719/363, 25-26=-1690/0, 23-25=-1145/0, 22-23=0/771, 21-22=0/1870,

20-21=0/2199. 19-20=0/2051. 18-19=0/2051.

17-18=0/844

WFBS 6-25=-112/0, 13-20=-138/181, 14-19=0/222, 7-25=-1570/0, 7-23=0/1153, 8-23=-1118/0,

8-22=0/786. 9-22=-65/0. 10-22=-656/0. 10-21=0/296, 12-21=-252/0, 12-20=-386/192, 15-17=-1055/0, 15-18=0/724, 14-18=-836/0, 5-25=-1099/0, 2-29=-367/376, 5-26=0/743, 2-28=-536/90, 4-26=-807/0, 3-28=-23/211,

4-27=-8/222

### NOTES

1) 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) 29. This connection is for uplift only and does not consider lateral forces.

**DEFL** 

Vert(LL)

Vert(CT)

Horz(CT)

0.82

0.52

0.55

I/defI

>999

>741

n/a n/a

in (loc)

20-21

20-21

17

-0.19

-0.25

0.01

L/d

480

360

**PLATES** 

Weight: 120 lb

MT20

GRIP

244/190

FT = 20%F, 12%E

- 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.

CSI

TC

BC

WB

Matrix-S

LOAD CASE(S) Standard

2-0-0

1.00

1 00

YES

IRC2021/TPI2014



July 1,2025

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Job Truss Truss Type Qty Ply Stonehaven Rev 2-EL-6.7-Floor 174557736 2411-0122-E 2F9B Floor 2 Job Reference (optional)

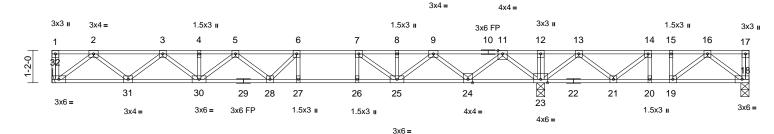
Structural, LLC, Thurmont, MD - 21788.

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:15

ID:1I?wFX7hOeLmEuoJHI?Nn9y8MU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x6 FP

1-3-0



10-11-8



1-0-0

25-2-0 Scale = 1:41.6

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	0.84	Vert(LL)	-0.24	27-28	>865	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.33	27-28	>632	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 130 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

**BOT CHORD** 2x4 SP No.2(flat) \*Except\* 22-29:2x4 SP SS

(flat)

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-8-12 oc purlins, except end verticals.

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

bracing.

**REACTIONS** (size) 18=0-3-8, 23=0-3-8, 32=

Mechanical Max Uplift 18=-135 (LC 3)

Max Grav 18=239 (LC 4), 23=1443 (LC 1),

32=676 (LC 3)

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

Tension

TOP CHORD 1-32=-31/0, 17-18=-43/0, 1-2=0/0,

2-3=-1386/0, 3-4=-2215/0, 4-5=-2215/0, 5-6=-2454/0, 6-7=-2271/0, 7-8=-1539/0

8-9=-1539/0, 9-11=-281/72, 11-12=0/1702, 12-13=0/1702, 13-14=-106/877,

14-15=-317/498, 15-16=-317/498, 16-17=0/0

**BOT CHORD** 31-32=0/838, 30-31=0/1903, 28-30=0/2477,

27-28=0/2271, 26-27=0/2271, 25-26=0/2271,

24-25=0/1018, 23-24=-625/0, 21-23=-1202/0, 20-21=-498/317, 19-20=-498/317,

18-19=-203/246

**WEBS** 6-27=-325/0, 7-26=0/289, 12-23=-91/0,

2-32=-1052/0, 2-31=0/712, 3-31=-673/0, 3-30=0/398, 4-30=-30/0, 5-30=-334/0,

5-28=-125/141, 6-28=-65/408

11-23=-1352/0, 11-24=0/1019, 9-24=-972/0, 9-25=0/678, 8-25=-48/124, 7-25=-999/0. 13-23=-836/0, 16-18=-309/254, 13-21=0/552,

16-19=-377/90, 14-21=-597/0, 14-20=-9/162, 15-19=-28/150

NOTES

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

- 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.
- 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



July 1,2025

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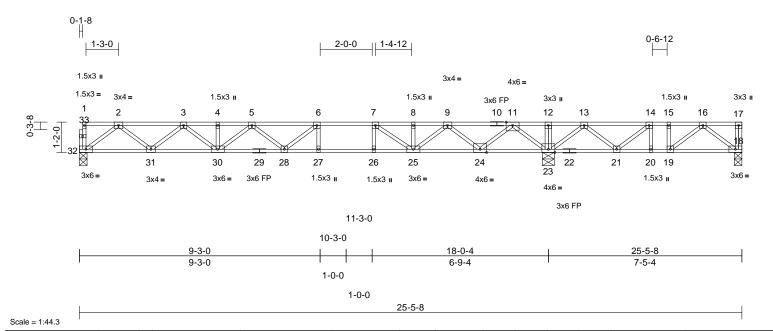




Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F8	Floor	4	1	Job Reference (optional)	174557737

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:15 ID:ZZRX2C63dLDvckD7jbU8Fxy8MU6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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1-7-3 CSI **DEFL** I/defI L/d **PLATES** GRIP Loading (psf) Spacing in (loc) TCLL 40.0 Plate Grip DOL 1.00 TC 0.89 Vert(LL) -0.27 27-28 >796 480 MT20 244/190 BC TCDI 10.0 Lumber DOL 1 00 0.74 Vert(CT) -0.3727-28 >581 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.50 0.04 23 Horz(CT) 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\* 32-29:2x4 SP No.2

(flat)

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

**BOT CHORD** bracing.

REACTIONS (size) 18=0-3-8, 23=0-5-8, 32=0-3-8

Max Uplift 18=-155 (LC 3)

18=233 (LC 4), 23=1476 (LC 1), Max Grav

32=683 (LC 3)

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

Tension

BOT CHORD

TOP CHORD 1-32=-28/0, 17-18=-43/0, 1-2=-2/0,

2-3=-1415/0, 3-4=-2268/0, 4-5=-2268/0, 5-6=-2541/0, 6-7=-2333/0, 7-8=-1523/0,

8-9=-1523/0, 9-11=-217/69, 11-12=0/1800, 12-13=0/1800, 13-14=-94/951,

14-15=-303/547, 15-16=-303/547, 16-17=0/0

31-32=0/853, 30-31=0/1946, 28-30=0/2561,

27-28=0/2333, 26-27=0/2333, 25-26=0/2333, 24-25=0/978, 23-24=-697/0, 21-23=-1295/0,

20-21=-547/303, 19-20=-547/303,

18-19=-232/239

WFBS 6-27=-297/0, 7-26=0/299, 12-23=-91/0, 2-32=-1068/0, 2-31=0/731, 3-31=-691/0,

3-30=0/411, 4-30=-17/1, 5-30=-374/0, 5-28=-113/138, 6-28=-75/408, 11-23=-1385/0,

11-24=0/1051, 9-24=-1001/0, 9-25=0/706, 8-25=-52/126, 7-25=-1063/0, 13-23=-859/0,

16-18=-300/292, 13-21=0/570, 16-19=-401/81, 14-21=-619/0,

14-20=-14/190, 15-19=-19/143

### NOTES

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) 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



July 1,2025

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

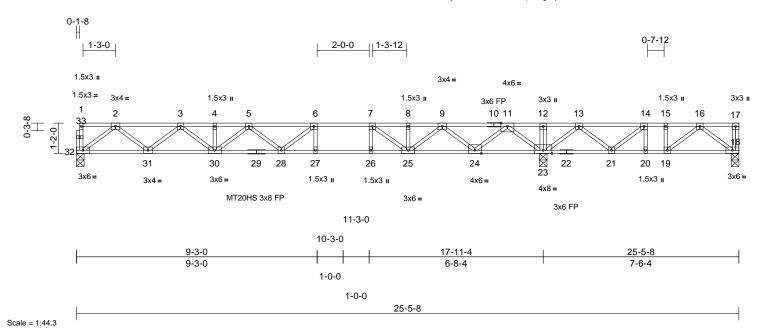
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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-6,7-Floor	
2411-0122-E	2F9A	Floor	4	1	Job Reference (optional)	174557738

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Mon Jun 30 05:28:15 ID:11?wFX7hOeLmEuoJHI?Nn9y8MU5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	1-10-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.28	27-28	>771	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.38	27-28	>564	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%F, 12%E

LUMBER

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

(flat)

**BOT CHORD** 2x4 SP No.2(flat) \*Except\* 22-29:2x4 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, 23=0-3-8, 32=0-3-8 Max Uplift 18=-144 (LC 3)

18=275 (LC 4), 23=1654 (LC 1), Max Grav

32=790 (LC 3)

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

Tension

TOP CHORD 1-32=-33/0, 17-18=-50/0, 1-2=-2/0, 2-3=-1641/0, 3-4=-2640/0, 4-5=-2640/0,

5-6=-2964/0, 6-7=-2752/0, 7-8=-1879/0, 8-9=-1879/0, 9-11=-417/67, 11-12=0/1885,

12-13=0/1885, 13-14=-127/957,

14-15=-367/540, 15-16=-367/540, 16-17=0/0 **BOT CHORD** 31-32=0/988, 30-31=0/2259, 28-30=0/2985,

27-28=0/2752, 26-27=0/2752, 25-26=0/2752, 24-25=0/1275, 23-24=-643/0, 21-23=-1316/0,

20-21=-540/367, 19-20=-540/367,

18-19=-218/284

WEBS 6-27=-302/0, 7-26=0/314, 12-23=-107/0,

2-32=-1236/0, 2-31=0/850, 3-31=-804/0, 3-30=0/487, 4-30=-20/1, 5-30=-440/0,

5-28=-140/164, 6-28=-99/445,

11-23=-1559/0, 11-24=0/1184, 9-24=-1133/0, 9-25=0/784, 8-25=-51/173, 7-25=-1195/0, 13-23=-943/0, 16-18=-357/274, 13-21=0/617,

16-19=-410/106, 14-21=-666/0, 14-20=-12/179, 15-19=-33/164

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.

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.

CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



July 1,2025

NOTES

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

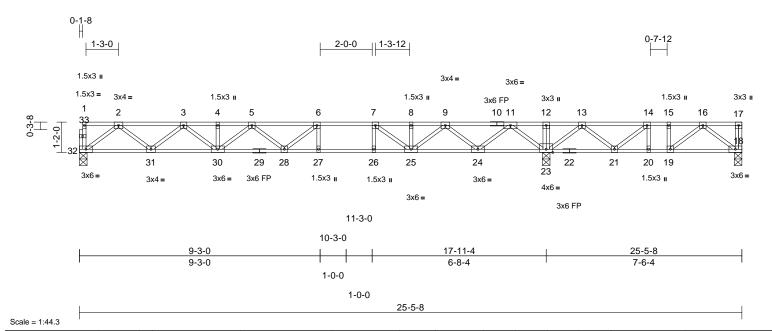
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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
2411-0122-E	2F9	Floor	4	1	Job Reference (optional)	174557739

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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.27	27-28	>798	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.37	27-28	>583	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	23	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\* 32-29:2x4 SP No.2

(flat)

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

**BRACING** 

**BOT CHORD** 

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 18=0-3-8, 23=0-3-8, 32=0-3-8

Max Uplift 18=-144 (LC 3)

18=238 (LC 4), 23=1465 (LC 1), Max Grav

32=681 (LC 3)

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

Tension

TOP CHORD 1-32=-28/0, 17-18=-43/0, 1-2=-2/0,

2-3=-1412/0, 3-4=-2262/0, 4-5=-2262/0, 5-6=-2532/0, 6-7=-2324/0, 7-8=-1542/0, 8-9=-1542/0, 9-11=-252/68, 11-12=0/1757,

12-13=0/1757, 13-14=-103/922,

14-15=-315/524, 15-16=-315/524, 16-17=0/0 31-32=0/851, 30-31=0/1941, 28-30=0/2554,

27-28=0/2324, 26-27=0/2324, 25-26=0/2324, 24-25=0/1006, 23-24=-662/0, 21-23=-1257/0,

20-21=-524/315, 19-20=-524/315,

18-19=-219/246

WFBS 6-27=-298/0, 7-26=0/308, 12-23=-91/0, 2-32=-1066/0, 2-31=0/730, 3-31=-689/0,

3-30=0/410, 4-30=-17/1, 5-30=-372/0, 5-28=-115/136, 6-28=-71/409, 11-23=-1376/0, 11-24=0/1042, 9-24=-993/0, 9-25=0/695

8-25=-45/134, 7-25=-1052/0, 13-23=-849/0, 16-18=-309/274, 13-21=0/562,

16-19=-390/88, 14-21=-617/0, 14-20=-10/189, 15-19=-26/139

### NOTES

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) 18. This connection is for uplift only and does not consider lateral forces.
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LOAD CASE(S) Standard



July 1,2025

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### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

₹

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

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

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

## LATERAL BRACING LOCATION



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

### **BEARING**



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

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

DSB-22:

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

## Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

## Design General Notes

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

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

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### MiTek



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

# General Safety Notes

### Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.