

RE: 2501-0740-A - Blake Pond Lot 00.0128 OWF

Site Information:

Project Customer: DRB Raleigh Project Name: Blake Pond Lot 00.0128 Subdivision: Blake Pond Lot/Block: 00.0128

Model: Townsend

Address: 203 Great Smoky Place

City: Lillington State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

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

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

Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 40.0 psf

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

No. 1 2 3	Seal# 70927128 70927129	Truss Name 2F2GR 2F15 2F6GE 1F17	Date 1/22/25 1/22/25 1/22/25 1/22/25	No. 35 36 37 38	Seal# 170927162 170927163 170927164 170927165	Truss Name 1F22 1F21 1F20 1F19	Date 1/22/25 1/22/25 1/22/25 1/22/25
4 567 8 9 10 11 12 13	170927132 170927133 170927134 170927135 170927136 170927137 170927139 170927140	1F9 1F11 1F15 2F5GE 1F5GE 1F24 1F4GE 1F2GE 1F2GE	1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25	39 40 41 43 44 45 46 47	170927166 170927167 170927168 170927169 170927170 170927171 170927172 170927173	1F18 1F16 1F14 2F2 2F1GE 1F1GE 1F3 2F1GR 2F1	1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25
16 17 18 19 20 21 22 23	170927141 170927142 170927142 170927143 170927145 170927146 170927147 170927149 170927150	1F7 2F5 2F12 2F13 2F4GE 2F14 2F3 2F4 2F7 1F3GE	1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25	48 49 50 52 53 54	170927175 170927176 170927177 170927177 170927179 170927180 170927181	1F5 1F4 1F4 1F2 1F2A 1F1 1F1A 1F6	1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25 1/22/25

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.

170927159 170927160 170927161

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

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



Trenco

818 Soundside Rd

Edenton, NC 27932

January 22,2025

Gilbert, Eric

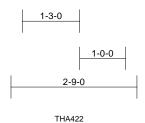
Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F2GR	Floor Girder	1	1	Joh Reference (optional)	170927128

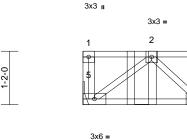
Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:04 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x3 II

3

3x6 =





Scale = 1:20.7

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	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=0-3-0, 5= Mechanical

Max Grav 4=533 (LC 1), 5=456 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-48/0, 3-4=-37/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/525

WEBS 2-5=-659/0, 2-4=-716/0

NOTES

- 1) Bearings are assumed to be: , Joint 4 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 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.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 1-3-6 from the left end to connect truss (es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-8, 1-3=-80

Concentrated Loads (lb) Vert: 2=-770 (B)



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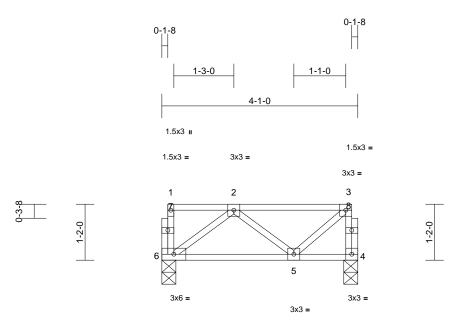
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F15	Floor	1	1	Job Reference (optional)	170927129

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Scale = 1:20.7

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	0.28	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 23 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

4-1-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 4=163 (LC 1), 6=163 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-6=-21/0, 3-4=-162/0, 1-2=-1/0, 2-3=-102/0

TOP CHORD **BOT CHORD** 5-6=0/178, 4-5=0/10

WEBS 2-6=-222/0, 2-5=-99/0, 3-5=0/125

NOTES

All bearings are assumed to be SP No.2.

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

LOAD CASE(S) Standard



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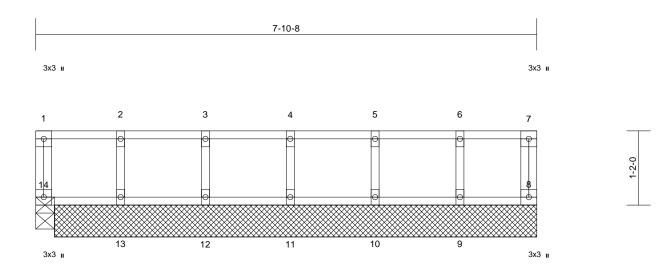
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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F6GE	Floor Supported Gable	1	1	Job Reference (optional)	I70927130

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Scale = 1:18.1

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	0.07	Vert(LL)	0.00	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	0.00	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	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=7-7-0, 9=7-7-0, 10=7-7-0, 11=7-7-0, 12=7-7-0, 13=7-7-0,

14=0-3-8

Max Grav 8=45 (LC 1), 9=107 (LC 1), 10=120

(LC 1), 11=116 (LC 1), 12=118 (LC 1), 13=115 (LC 1), 14=49 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-45/0, 7-8=-40/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0

13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7,

BOT CHORD 9-10=0/7, 8-9=0/7

2-13=-105/0, 3-12=-107/0, 4-11=-106/0,

WEBS 5-10=-109/0, 6-9=-99/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2.
- 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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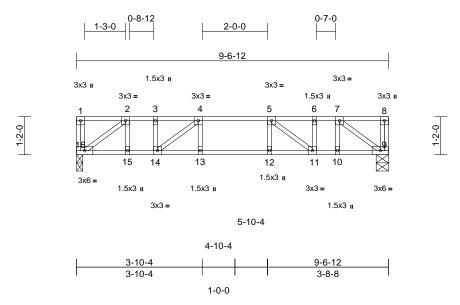
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F17	Floor	1	1	Job Reference (optional)	170927131

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1-0-0 Scale = 1:27.2

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	0.34	Vert(LL)	-0.06	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 51 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) 9=0-4-8, 16=0-2-4

Max Grav 9=409 (LC 1), 16=409 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-19/27, 8-9=-24/20, 1-2=0/0,

2-3=-583/0, 3-4=-583/0, 4-5=-902/0, 5-6=-566/0, 6-7=-566/0, 7-8=0/0

BOT CHORD 15-16=0/583, 14-15=0/583, 13-14=0/902,

12-13=0/902, 11-12=0/902, 10-11=0/566,

9-10=0/566

WEBS 4-13=0/85, 5-12=0/90, 4-14=-439/0,

2-16=-719/0, 2-15=0/173, 3-14=0/141,

5-11=-457/0, 7-9=-698/0, 6-11=0/148,

7-10=0/169

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 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.

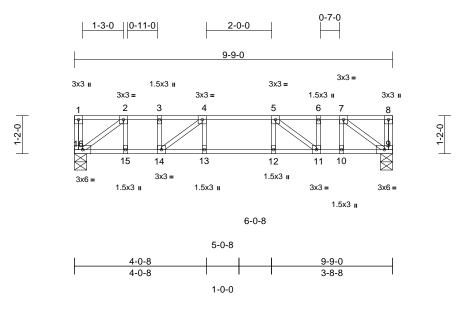
LOAD CASE(S) Standard





Job	Truss	Truss Type Qty Ply Blake Pond Lot 00.0128 OWF		Blake Pond Lot 00.0128 OWF		
2501-0740-A	1F9	Floor	1	1	Job Reference (optional)	170927132

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1-0-0 Scale = 1:27.2

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	0.61	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.13	11-12	>906	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 12%E

Concentrated Loads (lb)

Vert: 6=-255

LUMBER TOP CHORD

WEBS

2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 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) 9=0-4-8, 16=0-4-8

Max Grav 9=615 (LC 1), 16=475 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-4/44, 8-9=0/46, 1-2=0/0, 2-3=-718/0,

3-4=-718/0, 4-5=-1218/0, 5-6=-921/0,

6-7=-921/0, 7-8=0/0

BOT CHORD 15-16=0/718, 14-15=0/718, 13-14=0/1218,

12-13=0/1218, 11-12=0/1218, 10-11=0/921,

9-10=0/921

WEBS 4-13=0/154, 5-12=-16/73, 4-14=-668/0,

2-16=-886/0, 2-15=0/218, 3-14=0/208,

5-11=-405/0, 7-9=-1137/0, 6-11=-88/7,

7-10=0/296

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2
- 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: 9-16=-8. 1-8=-80

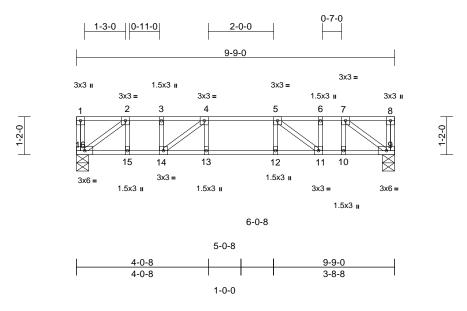


building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F11	Floor	1	1	Job Reference (optional)	170927133

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1-0-0 Scale = 1:27.2

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	0.69	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.14	11-12	>790	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 12%E

Concentrated Loads (lb)

Vert: 6=-336

LUMBER TOP CHORD **BOT CHORD**

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

BRACING

WEBS

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 9=0-4-8, 16=0-4-8

Max Grav 9=678 (LC 1), 16=494 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-2/46, 8-9=0/54, 1-2=0/0, 2-3=-749/0,

3-4=-749/0, 4-5=-1306/0, 5-6=-1029/0,

6-7=-1029/0, 7-8=0/0

BOT CHORD 15-16=0/749, 14-15=0/749, 13-14=0/1306,

12-13=0/1306, 11-12=0/1306, 10-11=0/1029,

9-10=0/1029

WEBS 4-13=0/175, 5-12=-24/65, 4-14=-738/0,

2-16=-926/0, 2-15=0/230, 3-14=0/230, 5-11=-379/0, 7-9=-1271/0, 6-11=-136/0,

7-10=0/335

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2
- 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: 9-16=-8. 1-8=-80

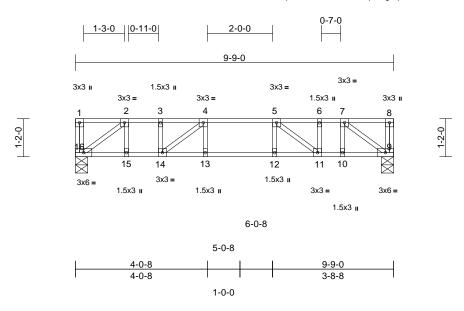


January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F15	Floor	1	1	Job Reference (optional)	70927134

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:00 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



1-0-0 Scale = 1:27.2

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	0.49	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.10	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 12%E

Concentrated Loads (lb)

Vert: 6=-26

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) 9=0-4-8, 16=0-4-8

Max Grav 9=438 (LC 1), 16=424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-11/37, 8-9=-21/23, 1-2=0/0,

2-3=-627/0, 3-4=-627/0, 4-5=-968/0, 5-6=-613/0, 6-7=-613/0, 7-8=0/0

BOT CHORD 15-16=0/627, 14-15=0/627, 13-14=0/968,

12-13=0/968, 11-12=0/968, 10-11=0/613,

9-10=0/613

WEBS 4-13=0/93, 5-12=0/96, 4-14=-467/0,

2-16=-775/0, 2-15=0/185, 3-14=0/148, 5-11=-477/0, 7-9=-757/0, 6-11=0/141,

7-10=0/186

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2
- 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: 9-16=-8. 1-8=-80

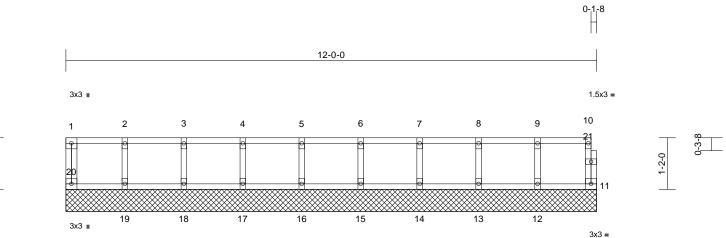




Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F5GE	Floor Supported Gable	1	1	Job Reference (optional)	170927135

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:06 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27

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	0.02	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 52 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size)

11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0, 15=12-0-0, 16=12-0-0, 17=12-0-0, 18=12-0-0, 19=12-0-0,

20=12-0-0

Max Grav 11=45 (LC 1), 12=114 (LC 1), 13=118 (LC 1), 14=117 (LC 1), 15=117 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=118 (LC 1), 19=114 (LC 1), 20=50 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-45/0, 10-11=-41/0, 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

BOT CHORD 19-20=0/8, 18-19=0/8, 17-18=0/8, 16-17=0/8,

15-16=0/8, 14-15=0/8, 13-14=0/8, 12-13=0/8,

11-12=0/8

WEBS 2-19=-104/0, 3-18=-107/0, 4-17=-106/0, 5-16=-107/0, 6-15=-107/0, 7-14=-106/0,

8-13=-107/0, 9-12=-104/0

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.
- All bearings are assumed to be SP No.2 .

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.

7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 22,2025

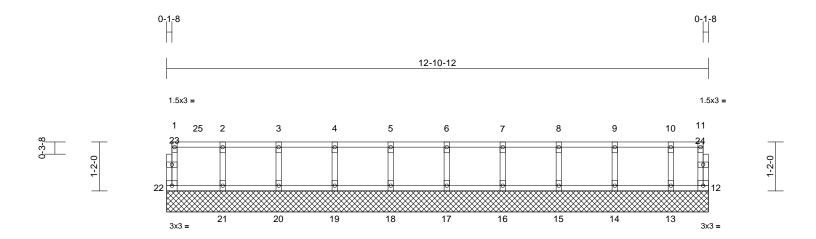
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSB Building Component Safety Information, available from the Structural Building Component Safety Information and Safety Information, available from the Structural Building Component Safety Information and Safety In and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F5GE	Floor Supported Gable	1	1	Job Reference (optional)	170927136

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:57 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.3

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size)

12=12-10-12, 13=12-10-12, 14=12-10-12, 15=12-10-12, 16=12-10-12, 17=12-10-12,

18=12-10-12, 19=12-10-12, 20=12-10-12, 21=12-10-12,

22=12-10-12

Max Grav 12=60 (LC 1), 13=54 (LC 1), 14=127 (LC 1), 15=115 (LC 1),

16=118 (LC 1), 17=118 (LC 1), 18=115 (LC 1), 19=124 (LC 1), 20=90 (LC 1), 21=273 (LC 1),

22=165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-22=-170/0, 11-12=-38/0, 1-2=-27/0, 2-3=-27/0, 3-4=-27/0, 4-5=-27/0, 5-6=-27/0,

6-7=-27/0, 7-8=-27/0, 8-9=-27/0, 9-10=-27/0,

10-11=-27/0

BOT CHORD 21-22=0/27, 20-21=0/27, 19-20=0/27,

18-19=0/27, 17-18=0/27, 16-17=0/27, 15-16=0/27, 14-15=0/27, 13-14=0/27,

12-13=0/27

WFBS 2-21=-252/0. 3-20=-81/0. 4-19=-113/0. 5-18=-105/0, 6-17=-107/0, 7-16=-107/0,

8-15=-105/0. 9-14=-113/0. 10-13=-69/0

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.
- All bearings are assumed to be SP No.2
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 12-22=-8. 1-11=-80

Concentrated Loads (lb)

Vert: 25=-255



January 22,2025

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

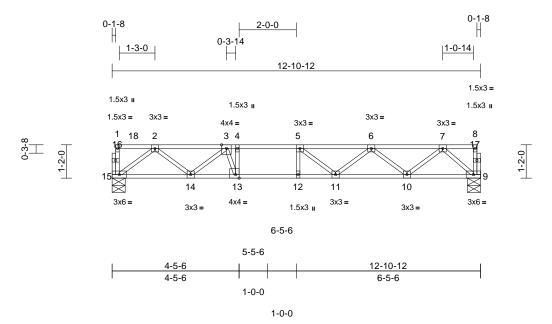
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F24	Floor	1	1	Job Reference (optional)	170927137

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:03 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:34.9 Plate Offsets (X, Y): [13:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.11	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.14	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 12%E

Vert: 9-15=-8, 1-8=-80

Concentrated Loads (lb)

Vert: 18=-552

LUMBER TOP CHORD 2x4 SP SS(flat) **BOT CHORD** 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 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, 15=0-5-8 Max Grav 9=578 (LC 1), 15=1076 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-15=-308/0, 8-9=-25/0, 1-2=-18/0,

2-3=-1351/0, 3-4=-1817/0, 4-5=-1817/0, 5-6=-1703/0, 6-7=-1095/0, 7-8=-1/0

BOT CHORD 14-15=0/1017, 13-14=0/1692, 12-13=0/1817,

11-12=0/1817, 10-11=0/1539, 9-10=0/629

4-13=-459/0, 5-12=-83/48, 2-15=-1253/0,

2-14=0/435, 3-14=-443/0, 3-13=0/593,

5-11=-304/0, 6-11=0/289, 6-10=-578/0,

7-10=0/607, 7-9=-832/0

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2.
- 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

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



January 22,2025

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

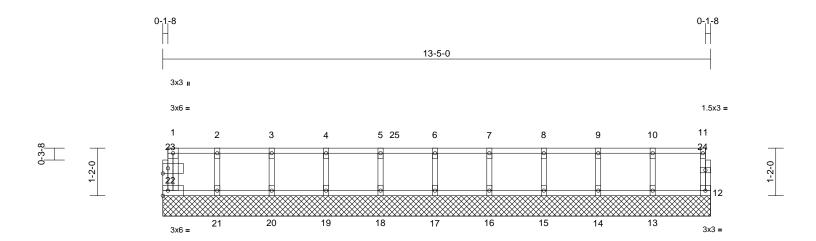
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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F4GE	Floor Supported Gable	1	1	Job Reference (optional)	170927138

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:57 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29

Plate Offsets (X, Y): [23:0-1-8,0-1-8]

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	0.30	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	NO	WB	0.07	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							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

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size)

12=13-5-0, 13=13-5-0, 14=13-5-0, 15=13-5-0, 16=13-5-0, 17=13-5-0, 18=13-5-0, 19=13-5-0, 20=13-5-0,

21=13-5-0, 22=13-5-0

12=142 (LC 1), 13=122 (LC 1), Max Grav

14=115 (LC 1), 15=122 (LC 1), 16=99 (LC 1), 17=191 (LC 1), 18=338 (LC 1), 19=86 (LC 1), 20=128 (LC 1), 21=103 (LC 1),

22=48 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-43/0, 11-12=-139/0, 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

BOT CHORD 21-22=0/12, 20-21=0/12, 19-20=0/12,

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

12-13=0/12

WEBS 2-21=-95/0. 3-20=-117/0. 4-19=-75/0.

5-18=-327/0, 6-17=-181/0, 7-16=-88/0, 8-15=-111/0, 9-14=-105/0, 10-13=-109/0

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.
- 5) All bearings are assumed to be SP No.2.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 12-22=-8, 1-11=-80 Concentrated Loads (lb) Vert: 11=-96, 25=-255



January 22,2025

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

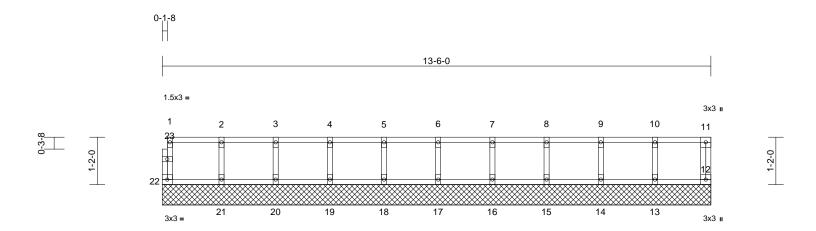
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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F2GE	Floor Supported Gable	1	1	Job Reference (optional)	170927139

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:04 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.2

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	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	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 57 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)

12=13-6-0, 13=13-6-0, 14=13-6-0, 15=13-6-0, 16=13-6-0, 17=13-6-0, 18=13-6-0, 19=13-6-0, 20=13-6-0, 21=13-6-0, 22=13-6-0

Max Grav 12=53 (LC 1), 13=115 (LC 1),

14=118 (LC 1), 15=117 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=120 (LC 1),

22=51 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-47/0, 11-12=-48/0, 1-2=-10/0,

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

10-11=-10/0

BOT CHORD 21-22=0/10, 20-21=0/10, 19-20=0/10,

18-19=0/10, 17-18=0/10, 16-17=0/10, 15-16=0/10, 14-15=0/10, 13-14=0/10,

12-13=0/10

WEBS 2-21=-109/0. 3-20=-106/0. 4-19=-107/0.

5-18=-107/0, 6-17=-107/0, 7-16=-107/0, 8-15=-106/0. 9-14=-107/0. 10-13=-105/0

NOTES

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

- All bearings are assumed to be SP No.2.
- 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



January 22,2025

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

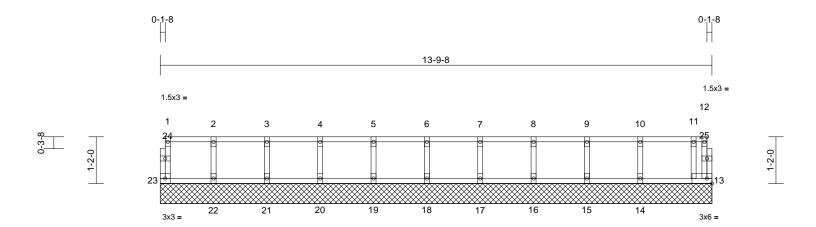
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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F2GE	Floor Supported Gable	1	1	Job Reference (optional)	170927140

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:56 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29.6

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	0.07	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	YES	WB	0.03	Horiz(TL)	0.00	13	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 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)

13=13-9-8, 14=13-9-8, 15=13-9-8, 16=13-9-8, 17=13-9-8, 18=13-9-8, 19=13-9-8, 20=13-9-8, 21=13-9-8,

22=13-9-8, 23=13-9-8

Max Grav 13=72 (LC 1), 14=130 (LC 1), 15=114 (LC 1), 16=118 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=120 (LC 1), 22=107 (LC 1),

23=51 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-44/0, 12-13=0/6, 1-2=-14/0, 2-3=-14/0,

3-4=-14/0, 4-5=-14/0, 5-6=-14/0, 6-7=-14/0,

7-8=-14/0, 8-9=-14/0, 9-10=-14/0,

10-11=-14/0, 11-12=0/0

BOT CHORD 22-23=0/14, 21-22=0/14, 20-21=0/14,

19-20=0/14, 18-19=0/14, 17-18=0/14, 16-17=0/14, 15-16=0/14, 14-15=0/14,

13-14=0/14

WEBS 2-22=-100/0, 3-21=-108/0, 4-20=-106/0,

5-19=-107/0, 6-18=-107/0, 7-17=-106/0, 8-16=-107/0, 9-15=-104/0, 10-14=-115/0,

11-13=-75/0

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.
- All bearings are assumed to be SP No.2.
- 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



January 22,2025

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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F7	Floor	12	1	Job Reference (optional)	170927141

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:58 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

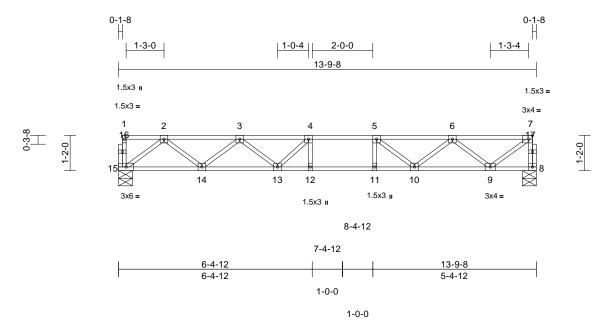


Plate Offsets (X, Y): [7:0-1-8,Edge]

		i		1	-							
Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.17	12-13	>980	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 69 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:34.9

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=0-5-8, 15=0-5-8

Max Grav 8=590 (LC 1), 15=590 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-32/0, 7-8=-588/0, 1-2=-2/0, 2-3=-1185/0, 3-4=-1793/0, 4-5=-1899/0,

5-6=-1564/0, 6-7=-679/0

BOT CHORD 14-15=0/727, 13-14=0/1618, 12-13=0/1899,

11-12=0/1899, 10-11=0/1899, 9-10=0/1257,

8-9=0/35

4-12=-137/85, 5-11=-53/146, 2-15=-910/0. **WEBS** 2-14=0/596, 3-14=-563/0, 3-13=0/298,

4-13=-316/40, 5-10=-509/0, 6-10=0/408,

6-9=-753/0, 7-9=0/816

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- 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



January 22,2025

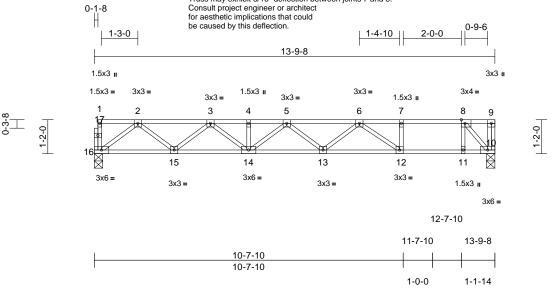


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F5	Floor	12	1	Job Reference (optional)	170927142

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:05 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1 Truss may exhibit 5/16" deflection between joints 7 and 8.

1-0-0



Scale = 1:34.9

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

		i			-						i	-
Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.29	12-13	>553	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.41	12-13	>401	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S		l ' '					Weight: 71 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) 2x4 SP SS(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 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=0-3-8, 16=0-3-8

Max Grav 10=595 (LC 1), 16=590 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-28/0, 9-10=0/274, 1-2=-2/0, 2-3=-1184/0, 3-4=-1815/0, 4-5=-1815/0,

5-6=-1921/0, 6-7=-995/0, 7-8=-995/0, 8-9=0/0

BOT CHORD 15-16=0/733, 14-15=0/1600, 13-14=0/1957,

12-13=0/1735, 11-12=0/995, 10-11=0/995

7-12=0/284, 8-11=0/440, 2-16=-918/0, 2-15=0/588, 3-15=-541/0, 3-14=0/274,

4-14=-68/0, 5-14=-181/0, 5-13=-50/40,

6-13=0/247, 6-12=-918/0, 8-10=-1461/0

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP SS.
- 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



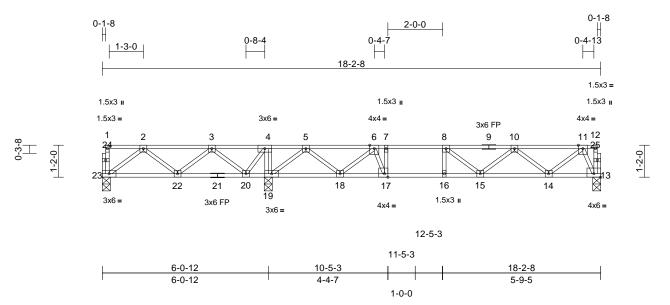
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F12	Floor	3	1	Job Reference (optional)	170927143

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:08 ID:r5bqwyiEYGn1ZYQY3wrQR_ztTLW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-0



Scale = 1:36.4

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

				1							i	
Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.10	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.13	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **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 6-0-0 oc

bracing. REACTIONS (size)

13=0-3-8, 19=0-3-8, 23=0-3-8

Max Uplift 23=-14 (LC 4)

Max Grav 13=482 (LC 4), 19=931 (LC 1),

23=219 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-28/0, 12-13=0/40, 1-2=-2/0,

2-3=-253/110, 3-4=0/406, 4-5=0/634, 5-6=-628/0, 6-7=-1228/0, 7-8=-1228/0, 8-10=-1197/0, 10-11=-676/0, 11-12=0/2

BOT CHORD 22-23=-35/243, 20-22=-215/236,

19-20=-634/0, 18-19=-51/221, 17-18=0/1070,

16-17=0/1228, 15-16=0/1228, 14-15=0/1080,

13-14=0/257

WFBS 4-19=-411/0, 2-23=-303/45, 2-22=-110/14, 3-22=0/147, 3-20=-452/0, 4-20=0/370,

7-17=-387/0, 8-16=-115/0, 5-19=-852/0, 5-18=0/539, 6-18=-589/0, 6-17=0/555 8-15=-118/31, 10-15=0/162, 10-14=-527/0,

11-14=0/545. 11-13=-576/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 .

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. 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



January 22,2025

Page: 1

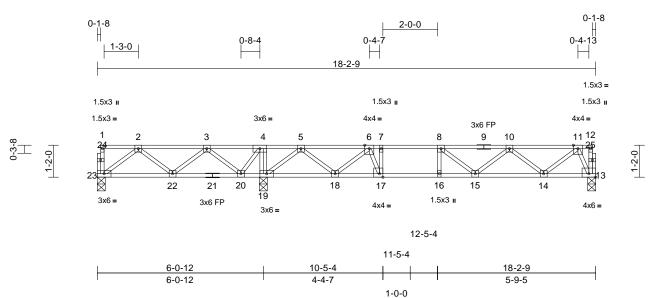




Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F13	Floor	2	1	Job Reference (optional)	170927144

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:35:08 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-0-0



Scale = 1:36.4

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

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	0.54	Vert(LL)	-0.10	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.13	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **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 6-0-0 oc bracing.

REACTIONS (size) 13=0-3-8, 19=0-3-8, 23=0-3-8 Max Uplift 23=-14 (LC 4)

13=482 (LC 4), 19=931 (LC 1), Max Grav

23=219 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-28/0, 12-13=0/40, 1-2=-2/0,

2-3=-254/110, 3-4=0/406, 4-5=0/634, 5-6=-628/0, 6-7=-1228/0, 7-8=-1228/0,

8-10=-1197/0, 10-11=-676/0, 11-12=0/2 BOT CHORD 22-23=-35/243, 20-22=-214/236,

> 19-20=-634/0, 18-19=-51/221, 17-18=0/1070, 16-17=0/1228, 15-16=0/1228, 14-15=0/1080,

13-14=0/257

WFBS 4-19=-411/0, 2-23=-303/45, 2-22=-110/14, 3-22=0/147, 3-20=-452/0, 4-20=0/370, 7-17=-387/0, 8-16=-115/0, 5-19=-852/0,

5-18=0/539, 6-18=-589/0, 6-17=0/555, 8-15=-118/31, 10-15=0/162, 10-14=-527/0, 11-14=0/545. 11-13=-576/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 .

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. 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



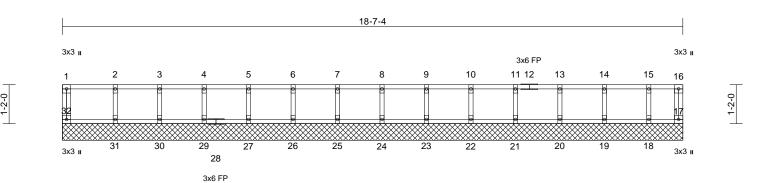
Page: 1

January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F4GE	FLOOR	1	1	Job Reference (optional)	I70927145

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed Jan 22.06:35:05 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:34.5

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	0.07	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	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 78 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)

17=18-7-4, 18=18-7-4, 19=18-7-4, 20=18-7-4, 21=18-7-4, 22=18-7-4, 23=18-7-4, 24=18-7-4, 25=18-7-4, 26=18-7-4, 27=18-7-4, 29=18-7-4, 30=18-7-4, 31=18-7-4, 32=18-7-4 Max Grav 17=40 (LC 1), 18=94 (LC 1), 19=122 (LC 1), 20=116 (LC 1), 21=118 (LC 1), 22=117 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1),

30=114 (LC 1), 31=130 (LC 1), 32=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-32=-55/0, 16-17=-33/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0,

27=117 (LC 1), 29=118 (LC 1),

15-16=-9/0

BOT CHORD 31-32=0/9, 30-31=0/9, 29-30=0/9, 27-29=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, 17-18=0/9

WEBS 2-31=-117/0, 3-30=-104/0, 4-29=-107/0,

> 5-27=-106/0, 6-26=-107/0, 7-25=-107/0, 8-24=-107/0, 9-23=-107/0, 10-22=-107/0, 11-21=-107/0, 13-20=-106/0, 14-19=-110/0,

15-18=-89/0

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.
- 5) All bearings are assumed to be SP No.2.
- 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



January 22,2025

Page: 1

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

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

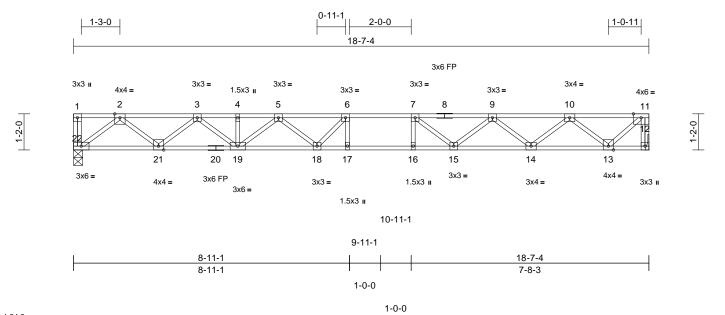


Ply Truss Type Qty Job Truss Blake Pond Lot 00 0128 OWF 170927146 2501-0740-A 2F14 Floor 12 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:08 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.29	17-18	>763	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.40	17-18	>555	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 20-12:2x4 SP SS **BOT CHORD**

(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) 12= Mechanical, 22=0-3-8

Max Grav 12=807 (LC 1), 22=807 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-22=-32/0, 11-12=-802/0, 1-2=0/0,

2-3=-1714/0, 3-4=-2870/0, 4-5=-2870/0, 5-6=-3433/0, 6-7=-3507/0, 7-9=-3139/0,

9-10=-2258/0, 10-11=-823/0

BOT CHORD 21-22=0/1010, 19-21=0/2388, 18-19=0/3268,

17-18=0/3507, 16-17=0/3507, 15-16=0/3507, 14-15=0/2812, 13-14=0/1675, 12-13=0/0

6-17=-226/145, 7-16=-99/214, 2-22=-1267/0, 2-21=0/916, 3-21=-878/0, 3-19=0/615,

4-19=-50/0, 5-19=-509/0, 5-18=0/356, 6-18=-403/180, 7-15=-642/0, 9-15=0/480, 9-14=-721/0, 10-14=0/760, 10-13=-1109/0,

11-13=0/1096

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1) this design.
- Bearings are assumed to be: Joint 22 SP No.2.
- 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.

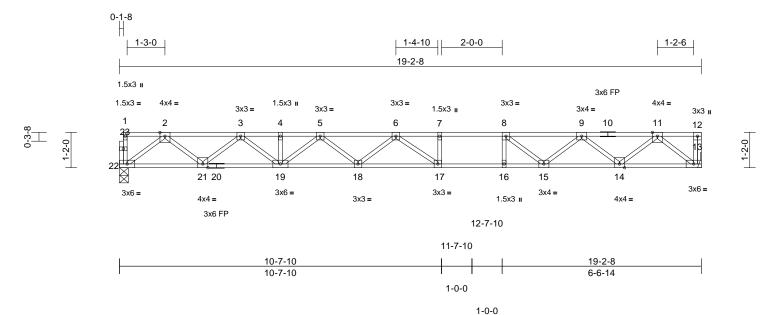
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F3	Floor	1	1	Job Reference (optional)	170927147

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:35:04 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.9

Loading

TCLL

TCDI

BCLL

BCDL

1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
1.00	TC	0.60	Vert(LL)	-0.35	17-18	>644	480	MT20	244/190
1.00	BC	0.73	Vert(CT)	-0.49	17-18	>466	360		
YES	WB	0.46	Horz(CT)	0.06	13	n/a	n/a		
IRC2021/TPI2014	Matrix-S							Weight: 96 lb	FT = 20%F, 12%E

LUMBER LOAD CASE(S) Standard

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Spacing

Code

1-7-

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

(psf)

40.0

10.0

0.0

5.0

(flat)

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

(flat)

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

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

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

Max Grav 13=834 (LC 1), 22=829 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-22=-29/0, 12-13=-31/1, 1-2=-2/0,

2-3=-1780/0, 3-4=-2999/0, 4-5=-2999/0, 5-6=-3653/0, 6-7=-3585/0, 7-8=-3585/0,

8-9=-2951/0, 9-11=-1750/0, 11-12=0/0 21-22=0/1044, 19-21=0/2485, 18-19=0/3435,

BOT CHORD 17-18=0/3787, 16-17=0/3585, 15-16=0/3585,

14-15=0/2447, 13-14=0/1014

WEBS 7-17=-107/105, 8-16=-6/268, 2-22=-1308/0,

2-21=0/958, 3-21=-917/0, 3-19=0/657, 4-19=-61/0, 5-19=-556/0, 5-18=0/284. 6-18=-239/0, 6-17=-454/237, 8-15=-901/0, 9-15=0/672, 9-14=-907/0, 11-14=0/958,

11-13=-1291/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Bearings are assumed to be: Joint 22 SP No.2.
- 3) Refer to girder(s) for truss to truss connections. 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.
- CAUTION, Do not erect truss backwards.



Page: 1

January 22,2025

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

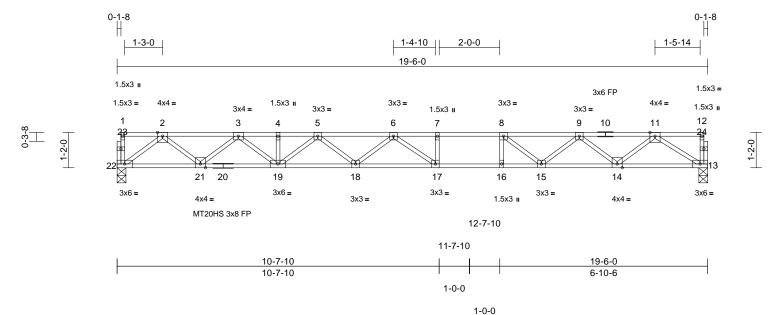
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F4	Floor	5	1	Job Reference (optional)	170927148

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:05 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.4

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.36	17-18	>635	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.50	17-18	>459	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 12%E

LUMBER LOAD CASE(S) Standard

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

(flat)

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

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

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

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

Max Grav 13=841 (LC 1), 22=841 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-22=-29/0, 12-13=-43/0, 1-2=-2/0,

2-3=-1812/0, 3-4=-3063/0, 4-5=-3063/0,

5-6=-3746/0, 6-7=-3725/0, 7-8=-3725/0, 8-9=-3120/0, 9-11=-1951/0, 11-12=-3/0

BOT CHORD 21-22=0/1061, 19-21=0/2532, 18-19=0/3514,

17-18=0/3898, 16-17=0/3725, 15-16=0/3725,

14-15=0/2634, 13-14=0/1229

WEBS 7-17=-117/98, 8-16=-16/260, 2-22=-1329/0, 2-21=0/978, 3-21=-937/0, 3-19=0/678,

4-19=-61/0, 5-19=-576/0, 5-18=0/301. 6-18=-257/0, 6-17=-432/266, 8-15=-880/0, 9-15=0/658, 9-14=-889/0, 11-14=0/940,

11-13=-1460/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- Bearings are assumed to be: Joint 22 SP No.2, Joint 13 3) SP SS
- 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.



January 22,2025

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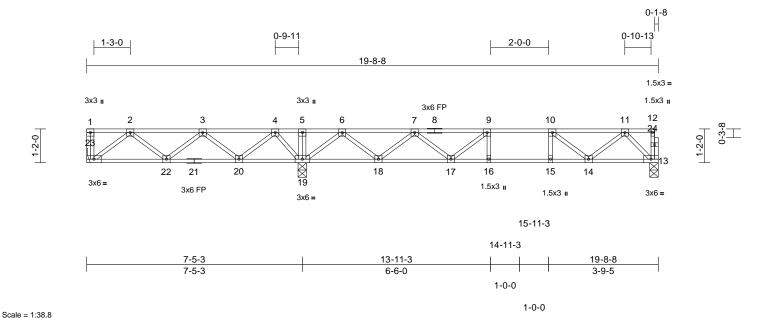
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F7	Floor	3	1	Job Reference (optional)	170927149

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:06 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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	0.48	Vert(LL)	-0.06	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.08	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 100 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 13=0-3-8, 19=0-3-8, 23= Mechanical

Max Uplift 23=-68 (LC 4)

Max Grav 13=435 (LC 4), 19=1130 (LC 1),

23=260 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-33/0, 12-13=-14/2, 1-2=0/0,

2-3=-346/249, 3-4=-150/638, 4-5=0/1260, 5-6=0/1261, 6-7=-169/59, 7-9=-855/0,

9-10=-1033/0, 10-11=-715/0, 11-12=-1/0

BOT CHORD 22-23=-109/289, 20-22=-418/375,

19-20=-877/0, 18-19=-534/0, 17-18=0/645, 16-17=0/1033, 15-16=0/1033, 14-15=0/1033,

13-14=0/412 **WEBS**

5-19=-55/0, 2-23=-362/137, 2-22=-182/74, 3-22=-38/220, 3-20=-481/0, 4-20=0/503, 4-19=-643/0, 9-16=-55/59, 10-15=-35/79,

6-19=-962/0, 6-18=0/658, 7-18=-632/0, 7-17=0/289. 9-17=-290/0. 10-14=-406/0.

11-14=0/394, 11-13=-586/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated. 3) Bearings are assumed to be: , Joint 19 SP No.2 , Joint 13 SP No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 23.
- 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



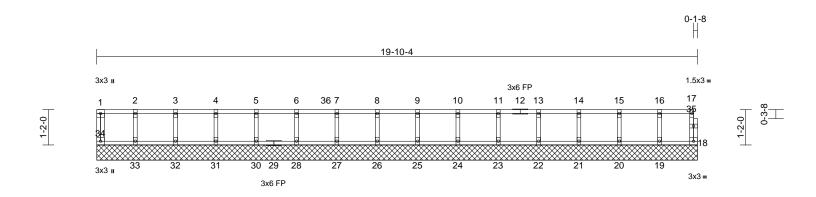
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F3GE	Floor Supported Gable	1	1	Job Reference (optional)	170927150

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:56 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39

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	0.51	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	0.11	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 83 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=19-10-4, 19=19-10-4, 20=19-10-4, 21=19-10-4, 22=19-10-4, 23=19-10-4,

24=19-10-4, 25=19-10-4, 26=19-10-4, 27=19-10-4, 28=19-10-4, 30=19-10-4, 31=19-10-4, 32=19-10-4, 33=19-10-4, 34=19-10-4

Max Grav 18=40 (LC 1), 19=111 (LC 1), 20=119 (LC 1), 21=117 (LC 1). 22=117 (LC 1), 23=118 (LC 1),

24=114 (LC 1), 25=130 (LC 1), 26=65 (LC 1), 27=488 (LC 1), 28=245 (LC 1), 30=86 (LC 1), 31=125 (LC 1), 32=116 (LC 1),

33=113 (LC 1), 34=46 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-34=-42/0, 17-18=-36/0, 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,

11-13=-7/0, 13-14=-7/0, 14-15=-7/0, 15-16=-7/0, 16-17=-7/0

33-34=0/7, 32-33=0/7, 31-32=0/7, 30-31=0/7, 28-30=0/7, 27-28=0/7, 26-27=0/7, 25-26=0/7, BOT CHORD

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 2-33=-103/0, 3-32=-106/0, 4-31=-114/0,

5-30=-75/0, 6-28=-234/0, 7-27=-477/0, 8-26=-55/0, 9-25=-120/0, 10-24=-103/0 11-23=-107/0, 13-22=-106/0, 14-21=-106/0,

15-20=-108/0, 16-19=-101/0

NOTES

- 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.
- All bearings are assumed to be SP No.2.
- 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.
- 8) 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: 18-34=-8, 1-17=-80 Concentrated Loads (lb)

Vert: 36=-431



January 22,2025

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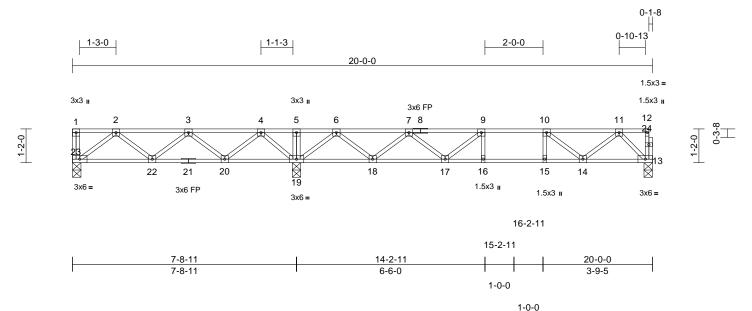
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F6	Floor	3	1	Job Reference (optional)	170927151

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:06 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.2

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	0.48	Vert(LL)	-0.06	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.08	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 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) 13=0-3-8, 19=0-3-8, 23=0-3-8

Max Uplift 23=-59 (LC 4)

13=435 (LC 4), 19=1137 (LC 1), Max Grav

23=273 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-23=-33/0, 12-13=-14/3, 1-2=0/0,

2-3=-379/225, 3-4=-215/590, 4-5=0/1264,

5-6=0/1264, 6-7=-175/62, 7-9=-860/0, 9-10=-1036/0, 10-11=-716/0, 11-12=-1/0

BOT CHORD 22-23=-96/306, 20-22=-382/424,

19-20=-819/0, 18-19=-535/0, 17-18=0/651,

16-17=0/1036, 15-16=0/1036, 14-15=0/1036,

13-14=0/412

WEBS 5-19=-77/0, 9-16=-55/60, 10-15=-36/79,

2-23=-384/121 2-22=-167/95 3-22=-59/204 3-20=-453/0, 4-20=0/477, 4-19=-716/0,

6-19=-962/0, 6-18=0/659, 7-18=-633/0, 7-17=0/289, 9-17=-292/0, 10-14=-408/0,

11-14=0/395, 11-13=-587/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. 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



January 22,2025

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

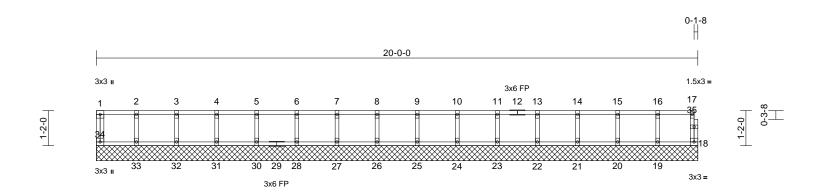
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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F3GE	Floor Supported Gable	1	1	Job Reference (optional)	170927152

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:05 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.2

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size)

18=20-0-0, 19=20-0-0, 20=20-0-0, 21=20-0-0, 22=20-0-0, 23=20-0-0, 24=20-0-0, 25=20-0-0, 26=20-0-0, 27=20-0-0, 28=20-0-0, 30=20-0-0, 31=20-0-0, 32=20-0-0, 33=20-0-0,

34=20-0-0

Max Grav 18=45 (LC 1), 19=114 (LC 1), 20=118 (LC 1), 21=117 (LC 1), 22=117 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 30=117 (LC 1), 31=117 (LC 1), 32=118 (LC 1),

FORCES (lb) - Maximum Compression/Maximum

Tension

WEBS

TOP CHORD 1-34=-45/0, 17-18=-41/0, 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,

33=115 (LC 1), 34=50 (LC 1)

15-16=-8/0, 16-17=-8/0

BOT CHORD 33-34=0/8, 32-33=0/8, 31-32=0/8, 30-31=0/8, 28-30=0/8, 27-28=0/8, 26-27=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 2-33=-104/0, 3-32=-107/0, 4-31=-106/0,

5-30=-107/0, 6-28=-107/0, 7-27=-107/0, 8-26=-107/0, 9-25=-107/0, 10-24=-107/0,

11-23=-107/0, 13-22=-107/0, 14-21=-106/0,

15-20=-107/0, 16-19=-104/0

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).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be SP No.2.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 22,2025

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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 ANSITPIT Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F13	Floor	2	1	Job Reference (optional)	170927153

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:00 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

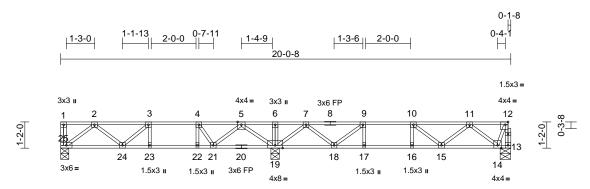




Plate Offsets (X, Y): [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49		-0.06	15-16	>999		MT20	244/190
				_		- (/					WIIZU	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.10	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	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

Scale = 1:44.7

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 6-0-0 oc

bracing.

REACTIONS 13=0-5-8, 19=0-4-8, 25=0-4-5 (size) Max Grav

13=391 (LC 7), 19=1648 (LC 1),

25=464 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-35/0, 12-13=-386/0, 1-2=0/0,

2-3=-854/0, 3-4=-1146/0, 4-5=-1066/0, 5-6=0/903, 6-7=0/902, 7-9=-344/256,

9-10=-785/31, 10-11=-711/0, 11-12=-154/0 24-25=0/552, 23-24=0/1146, 22-23=0/1146, 21-22=0/1146, 19-21=0/890, 18-19=-433/0,

17-18=-31/785, 16-17=-31/785,

15-16=-31/785, 14-15=0/563, 13-14=0/0

WEBS 3-23=-19/71, 4-22=-67/59, 6-19=-124/0,

> 9-17=0/163. 10-16=-140/0. 2-25=-692/0. 2-24=0/394, 3-24=-384/0, 7-19=-783/0, 7-18=0/532, 9-18=-638/0, 10-15=-94/118, 11-15=-22/193, 11-14=-533/0, 12-14=0/378,

5-19=-1821/0, 5-21=0/307, 4-21=-248/20

NOTES

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2
- 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.
- 6) 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: 13-25=-8, 1-12=-80

Concentrated Loads (lb)

Vert: 5=-720



January 22,2025

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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F12	Floor	1	1	Job Reference (optional)	170927154

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:34:59 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

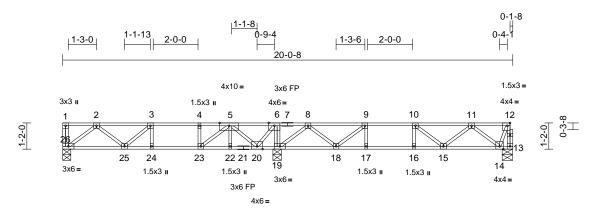




Plate Offsets (X, Y): [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.05	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.09	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:44.7

TOP CHORD 2x4 SP DSS(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 6-0-0 oc

bracing.

REACTIONS 13=0-5-8, 19=0-4-8, 26=0-4-5 (size)

Max Grav 13=382 (LC 7), 19=1550 (LC 1),

26=480 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-38/0, 12-13=-378/0, 1-2=0/0,

2-3=-899/0, 3-4=-1219/0, 4-5=-1219/0, 5-6=-124/228, 6-8=0/964, 8-9=-285/310, 9-10=-741/69, 10-11=-684/0, 11-12=-151/0 25-26=0/570, 24-25=0/1219, 23-24=0/1219,

BOT CHORD 22-23=0/1125, 20-22=0/1125, 19-20=-964/0,

18-19=-501/0, 17-18=-69/741,

16-17=-69/741, 15-16=-69/741, 14-15=0/552,

13-14=0/0

WEBS 3-24=0/69, 4-23=-128/16, 6-19=-1059/0,

9-17=0/152, 10-16=-128/0, 2-26=-714/0, 2-25=0/429, 3-25=-422/0, 5-23=-64/242, 5-20=-1378/0, 6-20=0/1193, 8-19=-773/0 8-18=0/553, 9-18=-657/0, 10-15=-74/135. 11-15=-41/171, 11-14=-522/0, 12-14=0/371,

5-22=-3/40

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.

- 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: 13-26=-8, 1-12=-80 Concentrated Loads (lb) Vert: 5=-630

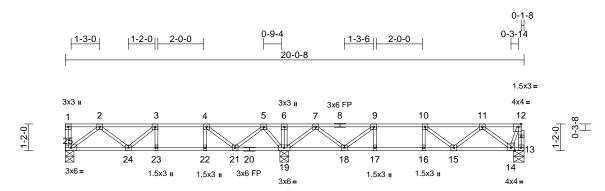


January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F10	Floor	2	1	Job Reference (optional)	0927155

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:59 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



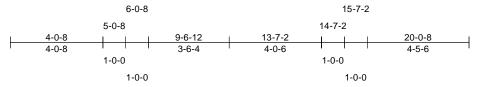


Plate Offsets (X, Y): [12:0-1-8,Edge]

Landina	(nof)	Cussian	4.7.0	CCI		DEFL		(100)	1/4-61	1 /4	DLATEC	CDID
Loading	(psf)	Spacing	1-7-3	CSI		DELL	in	(loc)	l/defl	L/u	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.06	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.08	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	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

Scale = 1:43.8

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

BRACING

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

bracing, Except:

6-0-0 oc bracing: 19-21,18-19. 13=0-5-8, 19=0-4-8, 25=0-4-8 REACTIONS (size)

13=437 (LC 7), 19=948 (LC 1), Max Grav

25=400 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-25=-28/0, 12-13=-437/0, 1-2=0/0,

2-3=-690/0, 3-4=-850/0, 4-5=-523/23, 5-6=0/473, 6-7=0/474, 7-9=-691/0, 9-10=-1023/0, 10-11=-842/0, 11-12=-169/0

BOT CHORD 24-25=0/479, 23-24=0/850, 22-23=0/850,

21-22=0/850, 19-21=-144/225,

18-19=-39/390, 17-18=0/1023, 16-17=0/1023, 15-16=0/1023, 14-15=0/627, 13-14=0/0

WEBS 3-23=-92/1, 4-22=0/115, 6-19=-69/0,

9-17=0/112, 10-16=-89/21, 2-25=-602/0, 2-24=0/273, 3-24=-211/18, 4-21=-524/0, 5-21=0/457, 5-19=-580/0, 7-19=-739/0, 7-18=0/451, 9-18=-509/0, 10-15=-231/0, 11-15=0/279, 11-14=-596/0, 12-14=0/429

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2.

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.

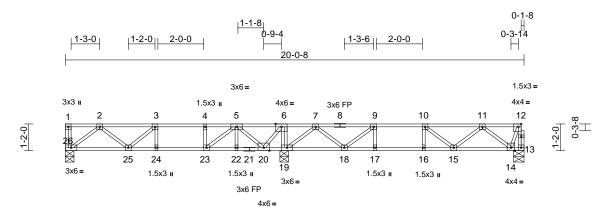
LOAD CASE(S) Standard

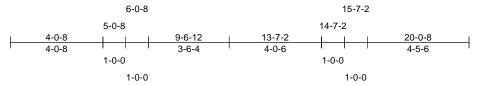




Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F8	Floor	1	1	Job Reference (optional)	927156

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:58 ID: 37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 1





Scale = 1:43.8 Plate Offsets (X, Y): [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.06	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.10	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP 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. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 13=0-5-8, 19=0-4-8, 26=0-4-8 (size)

13=384 (LC 7), 19=1526 (LC 1), Max Grav

26=478 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-36/0, 12-13=-379/0, 1-2=0/0,

2-3=-892/0, 3-4=-1211/0, 4-5=-1211/0,

5-6=-130/224, 6-7=0/941, 7-9=-300/295 9-10=-752/57, 10-11=-691/0, 11-12=-146/0 25-26=0/569, 24-25=0/1211, 23-24=0/1211,

22-23=0/1111, 20-22=0/1111, 19-20=-941/0, 18-19=-478/0, 17-18=-57/752,

16-17=-57/752, 15-16=-57/752, 14-15=0/550,

13-14=0/0

WEBS 3-24=-5/75, 4-23=-130/9, 6-19=-1034/0,

9-17=0/168, 10-16=-145/0, 2-26=-714/0, 2-25=0/421, 3-25=-418/0, 5-23=-58/250, 5-20=-1349/0, 6-20=0/1169, 7-19=-775/0 7-18=0/539, 9-18=-654/0, 10-15=-79/132, 11-15=-31/183, 11-14=-525/0, 12-14=0/369,

5-22=-5/45

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2.

- 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: 13-26=-8, 1-12=-80 Concentrated Loads (lb) Vert: 5=-606



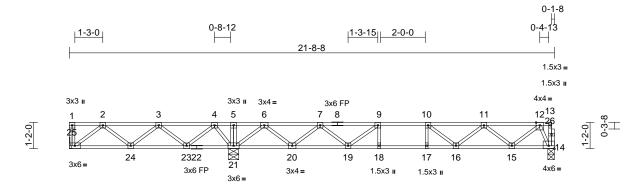
January 22,2025

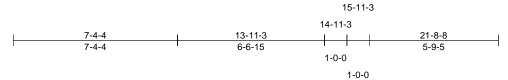


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F9	Floor	4	1	Job Reference (optional)	170927157

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:07 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:43.8 Plate Offsets (X, Y): [14:Edge,0-1-8]

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	0.50	Vert(LL)	-0.10	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.14	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP 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 6-0-0 oc

bracing. REACTIONS (size) 14=0-3-8, 21=0-5-8, 25=

Mechanical

Max Uplift 25=-86 (LC 4) 14=532 (LC 4), 21=1226 (LC 1), Max Grav

25=253 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-25=-33/0, 13-14=0/45, 1-2=0/0,

2-3=-327/293, 3-4=-113/723, 4-5=0/1308, 5-6=0/1309, 6-7=-280/24, 7-9=-1170/0, 9-10=-1544/0, 10-11=-1404/0, 11-12=-761/0,

12-13=0/3

BOT CHORD 24-25=-132/279, 23-24=-482/347,

21-23=-982/0, 20-21=-526/0, 19-20=0/848, 18-19=0/1544, 17-18=0/1544, 16-17=0/1544,

15-16=0/1218. 14-15=0/285

WEBS 5-21=-50/0, 2-25=-350/165, 2-24=-209/62,

> 3-24=-26/247, 3-23=-500/0, 4-23=0/522, 4-21=-634/0, 9-18=-15/135, 10-17=-114/41, 6-21=-1103/0, 6-20=0/784, 7-20=-750/0, 7-19=0/433, 9-19=-503/0, 10-16=-248/0, 11-16=0/243, 11-15=-595/0, 12-15=0/619,

12-14=-639/0

NOTES

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

- 3) Bearings are assumed to be: , Joint 21 SP No.2 , Joint 14 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 25.
- Recommend 2x6 strongbacks, on edge, spaced at 6) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 22,2025

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

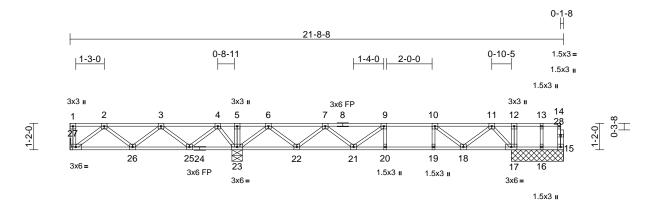
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

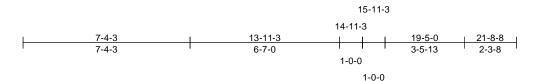


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F8	Floor	1	1	Job Reference (optional)	170927158

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:06 ID:oUjbLekU4t1losaxALtuWPztTLU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:43.8

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	0.47	Vert(LL)	-0.06	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.08	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 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

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) 15=2-3-8, 16=2-3-8, 17=2-3-8, 23=0-5-8, 27= Mechanical

Max Uplift 27=-75 (LC 4)

Max Grav 15=29 (LC 4), 16=71 (LC 1),

17=516 (LC 4), 23=1133 (LC 1),

27=256 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-33/0, 14-15=-22/0, 1-2=0/0,

2-3=-334/267, 3-4=-127/673, 4-5=0/1208, 5-6=0/1209, 6-7=-143/57, 7-9=-831/0, 9-10=-1014/0, 10-11=-676/0, 11-12=-1/0,

12-13=-1/0, 13-14=-1/0

BOT CHORD 26-27=-118/282, 25-26=-445/357,

23-25=-920/0, 22-23=-445/0, 21-22=0/624, 20-21=0/1014, 19-20=0/1014, 18-19=0/1014,

17-18=0/374, 16-17=0/1, 15-16=0/1

WEBS 5-23=-53/0, 12-17=-85/0, 2-27=-354/149.

2-26=-193/67, 3-26=-31/231, 3-25=-478/0, 4-25=0/500, 4-23=-615/0, 9-20=-26/15, 10-19=0/56, 6-23=-962/0, 6-22=0/663, 7-22=-637/0, 7-21=0/285, 9-21=-253/0

10-18=-431/0, 11-18=0/393, 11-17=-543/0,

13-16=-80/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- Gable studs spaced at 1-4-0 oc.
- Bearings are assumed to be: , Joint 23 SP No.2 , Joint 5) 16 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint
- 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.
- 9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



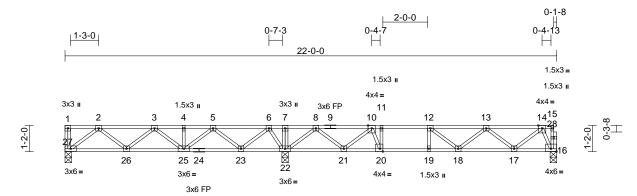
January 22,2025

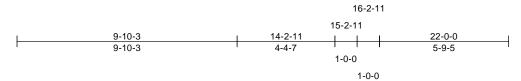


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F10	Floor	1	1	Job Reference (optional)	170927159

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:07 ID:r5bqwyiEYGn1ZYQY3wrQR_ztTLW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:43.8 Plate Offsets (X, Y): [16:Edge,0-1-8], [20:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.10	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.13	18-19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 114 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP 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, Except:

6-0-0 oc bracing: 23-25,22-23,21-22.

REACTIONS (size) 16=0-3-8, 22=0-3-8, 27=0-3-8

16=481 (LC 4), 22=1096 (LC 1), Max Grav

27=382 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-27=-30/0, 15-16=0/40, 1-2=0/0, 2-3=-647/0,

3-4=-766/0, 4-5=-766/0, 5-6=-282/213, 6-7=0/818, 7-8=0/818, 8-10=-614/65, 10-11=-1218/0, 11-12=-1218/0,

12-13=-1190/0, 13-14=-673/0, 14-15=0/2

26-27=0/452, 25-26=0/815, 23-25=-79/628,

22-23=-449/0, 21-22=-213/204,

20-21=0/1058, 19-20=0/1218, 18-19=0/1218,

17-18=0/1076, 16-17=0/256

7-22=-39/14, 11-20=-431/0, 12-19=-133/0, 2-27=-567/0, 2-26=0/254, 3-26=-219/14,

3-25=-131/0, 4-25=-51/0, 5-25=0/245. 5-23=-517/0, 6-23=0/539, 6-22=-636/0, 8-22=-885/0, 8-21=0/562, 10-21=-621/0, 10-20=0/621, 12-18=-76/84, 13-18=0/148,

13-17=-524/0, 14-17=0/543, 14-16=-574/0

NOTES

WEBS

BOT CHORD

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 .

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



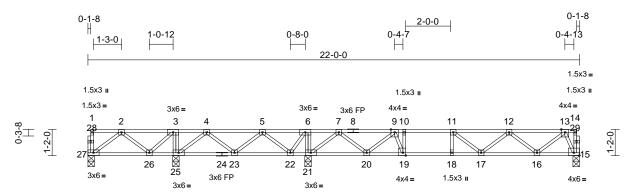
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F11	Floor	1	1	Job Reference (optional)	I70927160

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:07 ID:r5bqwyiEYGn1ZYQY3wrQR_ztTLW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:43.8 Plate Offsets (X, Y): [15:Edge,0-1-8], [19:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.10	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.13	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 115 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 6-0-0 oc

bracing.

REACTIONS (size) 15=0-3-8, 21=0-3-8, 25=0-3-8,

27=0-3-8

15=482 (LC 5), 21=910 (LC 4),

25=480 (LC 3), 27=155 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-27/0, 14-15=0/40, 1-2=-2/0,

2-3=-89/71, 3-4=-2/160, 4-5=-169/128, 5-6=0/420, 6-7=0/624, 7-9=-630/0,

9-10=-1230/0, 10-11=-1230/0, 11-12=-1198/0,

12-13=-676/0, 13-14=0/2

BOT CHORD 26-27=-16/160, 25-26=-160/2,

23-25=-60/126, 22-23=-223/186,

21-22=-624/0, 20-21=-41/223, 19-20=0/1072, 18-19=0/1230, 17-18=0/1230, 16-17=0/1081,

15-16=0/257

WEBS 3-25=-272/0, 6-21=-386/0, 2-27=-198/20,

2-26=-161/0. 3-26=0/181. 4-25=-338/78. 4-23=-88/70, 5-23=-37/124, 5-22=-417/0 6-22=0/339. 10-19=-384/0. 11-18=-114/0. 7-21=-853/0, 7-20=0/538, 9-20=-587/0, 9-19=0/551, 11-17=-120/27, 12-17=0/164. 12-16=-527/0, 13-16=0/545, 13-15=-576/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.

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

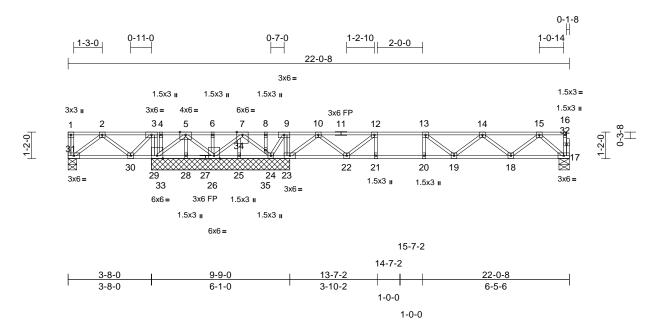


January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F23	Floor	1	1	Job Reference (optional)	170927161

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:35:02 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:	42.9
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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	0.53	Vert(LL)	-0.12	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.16	19-20	>950	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 149 lb	FT = 20%F, 12%E

Vert: 3=-218, 9=-581

LUMBER TOP CHORD

2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 27-17:2x4 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 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS (size)

17=0-5-8, 23=6-1-0, 24=6-1-0, 25=6-1-0, 26=6-1-0, 28=6-1-0,

29=6-1-0, 31=0-4-8

Max Uplift 24=-28 (LC 4), 25=-15 (LC 4),

26=-4 (LC 4)

Max Grav 17=505 (LC 4), 23=1338 (LC 9),

24=204 (LC 10), 25=38 (LC 10), 26=143 (LC 10), 28=57 (LC 10),

29=502 (LC 10), 31=142 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-31=-34/0, 16-17=-24/0, 1-2=0/0, 2-3=-49/0,

3-4=0/47, 4-5=0/47, 5-6=0/75, 6-7=0/75, 7-8=0/376, 8-9=0/376, 9-10=-5/515,

10-12=-756/0, 12-13=-1303/0,

13-14=-1358/0, 14-15=-922/0, 15-16=-1/0 BOT CHORD 30-31=0/131, 29-30=-47/0, 28-29=-31/0, 26-28=-31/0, 25-26=-149/13, 24-25=-149/13,

23-24=-515/5, 22-23=0/369, 21-22=0/1303, 20-21=0/1303, 19-20=0/1303, 18-19=0/1288,

17-18=0/542

WEBS 3-29=-483/0, 9-23=-874/0, 12-21=0/211,

13-20=-182/0, 2-31=-164/0, 2-30=-110/0, 3-30=0/127, 29-33=-35/12, 5-33=-43/12, 5-26=-59/0, 26-34=-39/96, 7-34=-56/116, 7-35=-288/0, 24-35=-331/0, 9-24=-130/248, 10-23=-823/0, 10-22=0/569, 12-22=-706/0, 13-19=-76/113, 14-19=0/132, 14-18=-476/0, 15-18=0/495, 15-17=-716/0, 4-33=-1/15, 5-28=-47/1, 6-26=-102/0, 25-34=-24/30,

8-35=-65/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-2-0 oc.
- Bearings are assumed to be: Joint 31 SP No.2 , Joint 25 $\,$ SP SS, Joint 17 SP SS.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 26 and 25. 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.
- 10) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

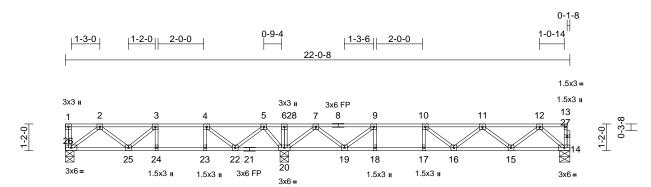
Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 17-31=-8. 1-16=-80 Concentrated Loads (lb)

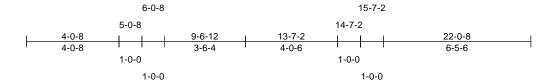
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F22	Floor	2	1		170927162

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:02 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:43.8

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	0.74	Vert(LL)	-0.12	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.16	16-17	>955	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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) 14=0-5-8, 20=0-4-8, 26=0-4-8

14=547 (LC 7), 20=1734 (LC 1), Max Grav

26=549 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-21/4, 13-14=-24/0, 1-2=0/0, 2-3=-1062/0, 3-4=-1309/0, 4-5=-769/0, 5-6=-28/300, 6-7=-21/308, 7-9=-1133/0,

9-10=-1597/0, 10-11=-1559/0, 11-12=-1021/0,

12-13=-1/0

BOT CHORD 25-26=0/690, 24-25=0/1309, 23-24=0/1309,

22-23=0/1309, 20-22=0/347, 19-20=0/767,

18-19=0/1597, 17-18=0/1597, 16-17=0/1597,

15-16=0/1431, 14-15=0/592

WEBS 3-24=-213/0, 4-23=0/234, 6-20=-724/0,

9-18=0/196, 10-17=-170/6, 2-26=-866/0, 2-25=0/484, 3-25=-324/0, 4-22=-785/0, 5-22=0/611, 5-20=-529/0, 7-20=-992/0, 7-19=0/525, 9-19=-664/0, 10-16=-165/79

11-16=0/189. 11-15=-534/0. 12-15=0/558.

12-14=-783/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP SS
- 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: 14-26=-8, 1-13=-80 Concentrated Loads (lb) Vert: 3=-240, 28=-640

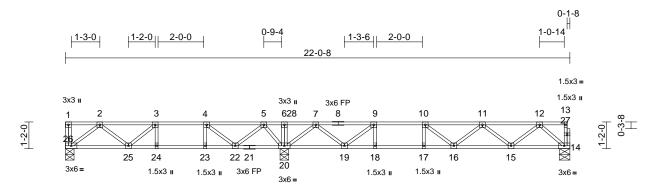


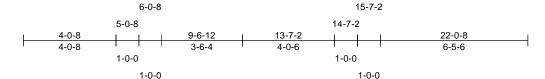
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F21	Floor	1	1	Job Reference (optional)	7163

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:02 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Loading 1-7-3 CSI **DEFL** in I/defI L/d **PLATES** GRIP (psf) Spacing (loc) TCLL 40.0 Plate Grip DOL 1.00 TC 0.77 Vert(LL) -0.12 16-17 >999 480 MT20 244/190 TCDI BC 10.0 Lumber DOL 1 00 0.81 Vert(CT) -0.1616-17 >941 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.26 Horz(CT) 0.03 14 n/a n/a BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Weight: 110 lb FT = 20%F, 12%E

LUMBER

Scale = 1:43.8

2x4 SP No.2(flat) TOP CHORD

BOT CHORD 2x4 SP No.2(flat) *Except* 21-14:2x4 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 10-0-0 oc bracing, Except:

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

REACTIONS (size) 14=0-5-8, 20=0-4-8, 26=0-4-8

Max Grav 14=541 (LC 7), 20=1694 (LC 1),

26=456 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-24/1, 13-14=-24/0, 1-2=0/0,

2-3=-828/0, 3-4=-1014/0, 4-5=-579/0, 5-6=0/401, 6-7=0/409, 7-9=-1078/0,

9-10=-1554/0, 10-11=-1531/0, 11-12=-1007/0,

12-13=-1/0

25-26=0/562, 24-25=0/1014, 23-24=0/1014, **BOT CHORD**

22-23=0/1014, 20-22=-121/216, 19-20=0/702, 18-19=0/1554, 17-18=0/1554, 16-17=0/1554,

15-16=0/1411, 14-15=0/585

3-24=-136/0, 4-23=0/159, 6-20=-719/0, **WEBS**

9-18=0/206, 10-17=-181/0, 2-26=-705/0, 2-25=0/347, 3-25=-243/0, 4-22=-643/0, 5-22=0/533, 5-20=-479/0, 7-20=-1006/0, 7-19=0/542, 9-19=-687/0, 10-16=-146/103, 11-16=0/177, 11-15=-526/0, 12-15=0/549,

12-14=-774/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 26 SP No.2, Joint 20 SP SS, Joint 14 SP SS.

- 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: 14-26=-8, 1-13=-80 Concentrated Loads (lb) Vert: 3=-101, 28=-640

January 22,2025

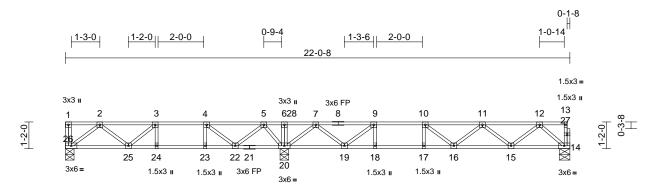
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

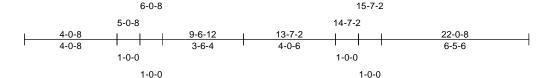
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



ſ	Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
	2501-0740-A	1F20	Floor	1	1	Job Reference (optional)	170927164

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:01 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.12	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.16	16-17	>929	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:43.8

2x4 SP No.2(flat) TOP CHORD

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

(flat)

WEBS 2x4 SP No.3(flat)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD bracing, Except:

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

REACTIONS (size) 14=0-5-8, 20=0-4-8, 26=0-4-8

Max Grav 14=534 (LC 7), 20=1670 (LC 1),

26=540 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-26=-180/0, 13-14=-24/0, 1-2=0/0,

2-3=-656/0, 3-4=-790/0, 4-5=-427/89,

5-6=0/490, 6-7=0/498, 7-9=-1010/0, 9-10=-1503/0, 10-11=-1496/0, 11-12=-990/0,

12-13=-1/0

BOT CHORD 25-26=0/465, 24-25=0/790, 23-24=0/790,

22-23=0/790, 20-22=-229/108, 19-20=0/624, 18-19=0/1503, 17-18=0/1503, 16-17=0/1503,

15-16=0/1386, 14-15=0/576

WEBS 3-24=-99/0, 4-23=0/123, 6-20=-712/0,

9-18=0/214, 10-17=-190/0, 2-26=-583/0, 2-25=0/249, 3-25=-176/41, 4-22=-552/0, 5-22=0/476, 5-20=-448/0, 7-20=-1018/0, 7-19=0/555, 9-19=-708/0, 10-16=-124/125, 11-16=0/164, 11-15=-516/0, 12-15=0/538,

12-14=-762/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 26 SP No.2, Joint 20 SP SS, Joint 14 SP SS.

- 4) 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: 14-26=-8, 1-13=-80 Concentrated Loads (lb) Vert: 1=-154, 28=-640



January 22,2025

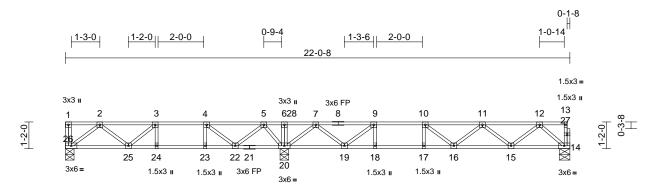
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

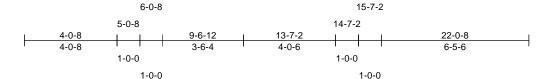
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F19	Floor	1	1	Job Reference (optional)	170927165

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:35:01 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Loading 1-7-3 CSI **DEFL** in I/defI L/d **PLATES** GRIP (psf) Spacing (loc) TCLL 40.0 Plate Grip DOL 1.00 TC 0.80 Vert(LL) -0.12 16-17 >999 480 MT20 244/190 TCDI BC 10.0 Lumber DOL 1 00 0.59 Vert(CT) -0.1616-17 >929 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.26 Horz(CT) 0.02 14 n/a n/a BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Weight: 110 lb FT = 20%F, 12%E

LUMBER

Scale = 1:43.8

2x4 SP No.2(flat) TOP CHORD

BOT CHORD 2x4 SP No.2(flat) *Except* 21-14:2x4 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 10-0-0 oc bracing, Except:

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

REACTIONS (size) 14=0-5-8, 20=0-4-8, 26=0-4-8

Max Grav 14=534 (LC 7), 20=1670 (LC 1),

26=387 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-27/0, 13-14=-24/0, 1-2=0/0,

2-3=-656/0, 3-4=-790/0, 4-5=-427/89 5-6=0/490, 6-7=0/498, 7-9=-1010/0,

9-10=-1503/0, 10-11=-1496/0, 11-12=-990/0,

12-13=-1/0

BOT CHORD 25-26=0/465, 24-25=0/790, 23-24=0/790,

22-23=0/790, 20-22=-229/108, 19-20=0/624, 18-19=0/1503, 17-18=0/1503, 16-17=0/1503,

15-16=0/1386, 14-15=0/576

WEBS 3-24=-99/0, 4-23=0/123, 6-20=-712/0,

9-18=0/214, 10-17=-190/0, 2-26=-583/0, 2-25=0/249, 3-25=-176/41, 4-22=-552/0, 5-22=0/476. 5-20=-448/0. 7-20=-1018/0. 7-19=0/555, 9-19=-708/0, 10-16=-124/125, 11-16=0/164, 11-15=-516/0, 12-15=0/538,

12-14=-762/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 26 SP No.2, Joint 20 SP SS, Joint 14 SP SS.

- 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: 14-26=-8, 1-13=-80 Concentrated Loads (lb)

Vert: 28=-640

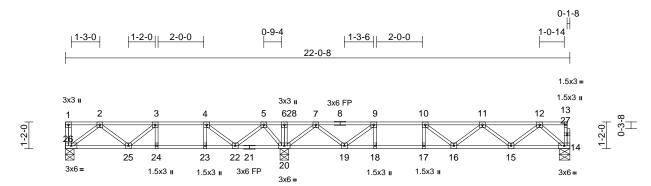


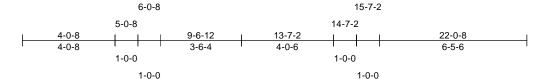
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F18	Floor	1	1	Job Reference (optional)	170927166

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:35:01 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Loading 1-7-3 CSI **DEFL** in I/defI L/d **PLATES** GRIP (psf) Spacing (loc) TCLL 40.0 Plate Grip DOL 1.00 TC 0.53 Vert(LL) -0.12 16-17 >999 480 MT20 244/190 TCDI BC 0.58 10.0 Lumber DOL 1 00 Vert(CT) -0.1616-17 >929 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.27 Horz(CT) 0.02 14 n/a n/a

BCDL LUMBER

Scale = 1:43.8

2x4 SP No.2(flat) TOP CHORD

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

5.0

Code

(flat)

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

OTHERS

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing, Except:

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

REACTIONS (size) 14=0-5-8, 20=0-4-8, 26=0-4-8

Max Grav 14=528 (LC 7), 20=1301 (LC 1),

26=392 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-27/0, 13-14=-25/0, 1-2=0/0,

2-3=-669/0, 3-4=-814/0, 4-5=-466/50

5-6=0/488, 6-7=0/491, 7-9=-953/0,

9-10=-1465/0, 10-11=-1469/0, 11-12=-977/0,

12-13=-1/0

BOT CHORD 25-26=0/471, 24-25=0/814, 23-24=0/814,

22-23=0/814, 20-22=-180/157, 19-20=0/551, 18-19=0/1465, 17-18=0/1465, 16-17=0/1465,

15-16=0/1367, 14-15=0/570

3-24=-94/0, 4-23=0/118, 6-20=-349/0, **WEBS**

9-18=0/218, 10-17=-194/0, 2-26=-590/0, 2-25=0/259, 3-25=-190/27, 4-22=-534/0, 5-22=0/462, 5-20=-520/0, 7-20=-919/0, 7-19=0/575, 9-19=-732/0, 10-16=-110/139.

11-16=0/154, 11-15=-508/0, 12-15=0/530,

12-14=-753/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 26 SP No.2, Joint 20 SP SS, Joint 14 SP SS.

- 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.

Matrix-S

LOAD CASE(S) Standard

IRC2021/TPI2014

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

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 14-26=-8, 1-13=-80 Concentrated Loads (lb)

Vert: 28=-270



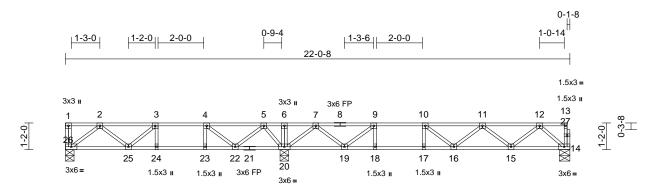
Weight: 110 lb

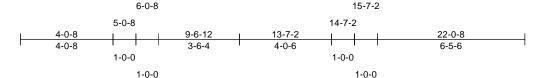
FT = 20%F, 12%E

January 22,2025

Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F16	Floor	3	1	Job Reference (optional)	170927167

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:00 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Loading (psf) 1-7-3 CSI **DEFL** in I/defI L/d **PLATES** GRIP Spacing (loc) TCLL 40.0 Plate Grip DOL 1.00 TC 0.52 Vert(LL) -0.14 16-17 >999 480 MT20 244/190 TCDI BC 10.0 Lumber DOL 1 00 0.99 Vert(CT) -0.1816-17 >813 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.28 Horz(CT) 0.03 n/a 14 n/a BCDL 5.0 Code IRC2021/TPI2014 Matrix-S Weight: 110 lb FT = 20%F, 12%E

LUMBER

Scale = 1:43.8

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 2-2-0 oc

bracing.

REACTIONS (size) 14=0-5-8, 20=0-4-8, 26=0-4-8

14=523 (LC 7), 20=1031 (LC 1), Max Grav

26=397 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-28/0, 13-14=-26/0, 1-2=0/0,

2-3=-683/0, 3-4=-839/0, 4-5=-505/27, 5-6=0/478, 6-7=0/479, 7-9=-906/0,

9-10=-1430/0, 10-11=-1441/0, 11-12=-966/0,

12-13=-2/0

BOT CHORD 25-26=0/477, 24-25=0/839, 23-24=0/839,

22-23=0/839, 20-22=-146/206,

19-20=-21/485, 18-19=0/1430, 17-18=0/1430, 16-17=0/1430, 15-16=0/1351, 14-15=0/563

WEBS 3-24=-92/0, 4-23=0/116, 6-20=-88/0,

9-18=0/201, 10-17=-177/0, 2-26=-598/0, 2-25=0/269, 3-25=-204/19, 4-22=-523/0, 5-22=0/455, 5-20=-575/0, 7-20=-844/0, 7-19=0/598, 9-19=-741/0, 10-16=-98/140 11-16=0/143, 11-15=-501/0, 12-15=0/524,

12-14=-744/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.

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



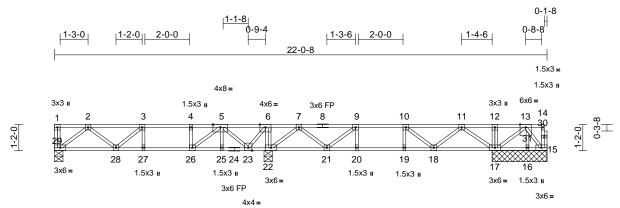
January 22,2025

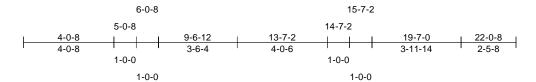


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F14	Floor	1	1	Job Reference (optional)	170927168

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:00 ID:uwzZ9cNGnYtzGEXzwAJdV0zuAje-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale) = 1	1:43.8	
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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	0.41	Vert(LL)	-0.05	27-28	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	26-27	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.01	22	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 115 lb	FT = 20%F, 12%E

LUMBER

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) 15=2-5-8, 16=2-5-8, 17=2-5-8,

22=0-4-8, 29=0-4-8 Max Uplift

15=-176 (LC 1), 16=-56 (LC 1) Max Grav 15=-90 (LC 3), 16=-31 (LC 3),

17=844 (LC 1), 22=1350 (LC 1),

29=449 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-29=-33/0, 14-15=-19/0, 1-2=0/0,

2-3=-818/0, 3-4=-1076/0, 4-5=-1076/0, 5-6=-43/299, 6-7=0/828, 7-9=-67/325, 9-10=-372/172, 10-11=-161/153, 11-12=0/626, 12-13=0/625, 13-14=-1/0

BOT CHORD 28-29=0/536, 27-28=0/1076, 26-27=0/1076, 25-26=0/903, 23-25=0/903, 22-23=-828/0,

21-22=-456/0, 20-21=-172/372,

19-20=-172/372, 18-19=-172/372, 17-18=-180/0, 16-17=-162/0, 15-16=-162/0

WEBS 3-27=-11/24, 4-26=-143/0, 6-22=-918/0, 9-20=0/55. 10-19=-29/0. 12-17=-103/0.

2-29=-673/0, 2-28=0/367, 3-28=-339/0, 5-26=0/300, 5-23=-1173/0, 6-23=0/1021, 7-22=-676/0, 7-21=0/385, 9-21=-408/0, 10-18=-269/25, 11-18=0/301, 11-17=-651/0, 13-17=-580/0, 13-31=0/301, 15-31=0/257,

5-25=-9/13, 16-31=0/57

NOTES

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

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 16. 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.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1 00

Uniform Loads (lb/ft) Vert: 15-29=-8, 1-14=-80

Concentrated Loads (lb)

Vert: 5=-475

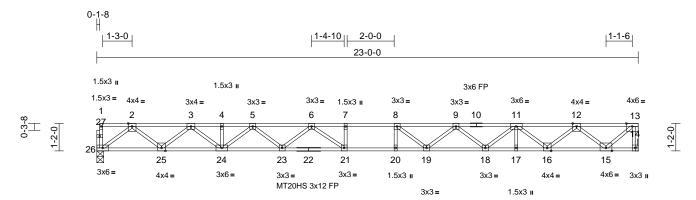


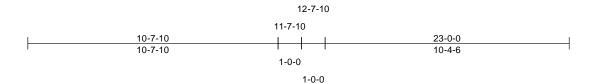
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F2	Floor	8	1	Job Reference (optional)	170927169

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:04 ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:43.7

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	0.77	Vert(LL)	-0.52	20-21	>528	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.71	20-21	>384	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.09	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 14= Mechanical, 26=0-3-8 Max Grav 14=834 (LC 1), 26=830 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-24/0, 13-14=-830/0, 1-2=-1/0, 2-3=-1833/0, 3-4=-3192/0, 4-5=-3192/0,

5-6=-4054/0, 6-7=-4517/0, 7-8=-4517/0, 8-9=-4295/0, 9-11=-3637/0, 11-12=-2478/0,

12-13=-909/0

BOT CHORD 25-26=0/1053, 24-25=0/2589, 23-24=0/3727, 21-23=0/4359, 20-21=0/4517, 19-20=0/4517,

18-19=0/4070, 17-18=0/3166, 16-17=0/3166,

15-16=0/1807, 14-15=0/0

WEBS 7-21=-184/0, 8-20=-138/163, 2-26=-1319/0, 2-25=0/1015, 3-25=-985/0, 3-24=0/769,

2-25=0/1015, 3-25=985/0, 3-24=0/769, 4-24=-43/0, 5-24=-684/0, 5-23=0/426, 6-23=-411/0, 6-21=-155/519, 8-19=-548/89, 9-19=0/415, 9-18=-563/0, 11-18=0/602, 11-17=-1/12, 11-16=-878/0, 12-16=0/873,

12-15=-1170/0, 13-15=0/1186

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 26 SP SS .
- 4) Refer to girder(s) for truss to truss connections.

- 5) 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

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

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

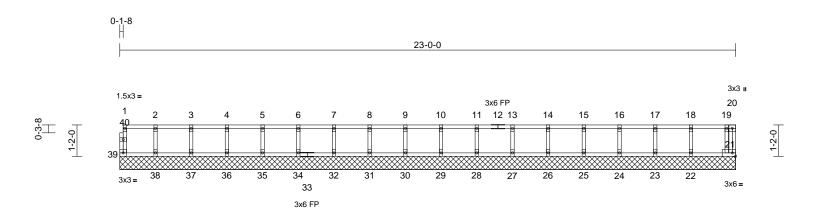
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 ANS/TPH 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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F1GE	Floor Supported Gable	1	1	Job Reference (optional)	170927170

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed Jan 22.06:35:03. ID:KI9C8IjsJZvuBi?kceMf_BztTLV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.7

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 97 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. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

REACTIONS (size)

21=23-0-0, 22=23-0-0, 23=23-0-0, 24=23-0-0, 25=23-0-0, 26=23-0-0, 27=23-0-0, 28=23-0-0, 29=23-0-0, 30=23-0-0, 31=23-0-0, 32=23-0-0, 34=23-0-0, 35=23-0-0, 36=23-0-0, 37=23-0-0, 38=23-0-0, 39=23-0-0

Max Grav

21=57 (LC 1), 22=107 (LC 1), 23=95 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=98 (LC 1), 32=98 (LC 1), 34=98 (LC 1), 35=98 (LC 1), 36=97 (LC 1), 37=99 (LC 1), 38=91 (LC 1), 39=41 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-39=-36/0, 20-21=0/7, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0,

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

18-19=-9/0. 19-20=-2/0

BOT CHORD 38-39=0/9, 37-38=0/9, 36-37=0/9, 35-36=0/9, 34-35=0/9, 32-34=0/9, 31-32=0/9, 30-31=0/9,

29-30=0/9, 28-29=0/9, 27-28=0/9, 26-27=0/9 25-26=0/9, 24-25=0/9, 23-24=0/9, 22-23=0/9,

21-22=0/9

WEBS

2-38=-85/0, 3-37=-90/0, 4-36=-89/0, 5-35=-89/0, 6-34=-89/0, 7-32=-89/0, 8-31=-89/0, 9-30=-89/0, 10-29=-89/0, 11-28=-89/0, 13-27=-89/0, 14-26=-89/0, 15-25=-89/0, 16-24=-89/0, 17-23=-87/0, 18-22=-95/0, 19-21=-61/0

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.
- All bearings are assumed to be SP No.2 .
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 22,2025

Edenton, NC 27932

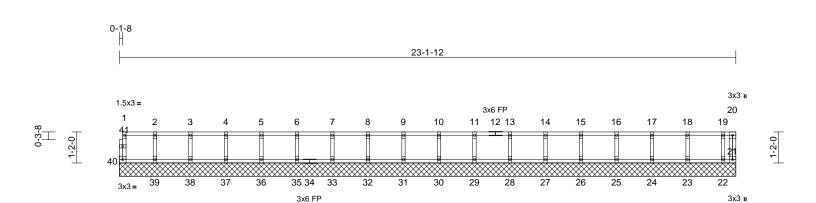
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F1GE	Floor Supported Gable	1	1	Job Reference (optional)	170927171

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:55 ID:6IHRP8?OUYuwudcEP6kAp?zuBH_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:44

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	NO	WB	0.03	Horiz(TL)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 97 lb	FT = 20%F, 12%E

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

BRACING

TOP CHORD

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

bracing. REACTIONS (size)

21=23-1-12, 22=23-1-12, 23=23-1-12, 24=23-1-12, 25=23-1-12, 26=23-1-12, 27=23-1-12, 28=23-1-12, 29=23-1-12, 30=23-1-12, 31=23-1-12, 32=23-1-12, 33=23-1-12, 35=23-1-12, 36=23-1-12, 37=23-1-12, 38=23-1-12, 39=23-1-12,

40=23-1-12 Max Grav

21=5 (LC 1), 22=81 (LC 1), 23=122 (LC 1), 24=116 (LC 1), 25=118 (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), 32=117 (LC 1), 33=117 (LC 1), 35=117 (LC 1), 36=117 (LC 1),

37=117 (LC 1), 38=117 (LC 1), 39=118 (LC 1), 40=42 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-40=-39/0, 20-21=0/2, 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, 17-18=-5/0,

18-19=-5/0, 19-20=-5/0

BOT CHORD 39-40=0/5, 38-39=0/5, 37-38=0/5, 36-37=0/5, 35-36=0/5, 33-35=0/5, 32-33=0/5, 31-32=0/5,

30-31=0/5, 29-30=0/5, 28-29=0/5, 27-28=0/5, 26-27=0/5, 25-26=0/5, 24-25=0/5, 23-24=0/5,

22-23=0/5, 21-22=0/5

WEBS 2-39=-106/0, 3-38=-107/0, 4-37=-106/0, 5-36=-107/0, 6-35=-107/0, 7-33=-107/0,

8-32=-107/0, 9-31=-107/0, 10-30=-107/0, 11-29=-107/0, 13-28=-107/0, 14-27=-107/0, 15-26=-107/0, 16-25=-107/0, 17-24=-106/0,

18-23=-111/0, 19-22=-80/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise 1) indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2 .
- 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



January 22,2025

Page: 1

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

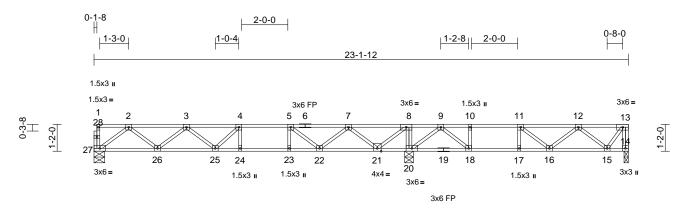
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

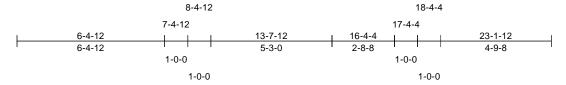
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Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F3	Floor	1	1	Job Reference (optional)	170927172

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:56 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:44

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	0.63	Vert(LL)	-0.12	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.17	24-25	>975	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size)

14=0-2-4, 20=0-4-8, 27=0-5-8 14=407 (LC 4), 20=1084 (LC 1), Max Grav

27=566 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-33/0, 13-14=-401/0, 1-2=-2/0, 2-3=-1124/0, 3-4=-1672/0, 4-5=-1730/0, 5-7=-1335/0, 7-8=-411/0, 8-9=0/555,

9-10=-835/49, 10-11=-835/49, 11-12=-798/0,

12-13=-263/0

BOT CHORD 26-27=0/694, 25-26=0/1531, 24-25=0/1730,

23-24=0/1730, 22-23=0/1730, 21-22=0/992,

20-21=-555/0, 18-20=-285/427,

17-18=-49/835, 16-17=-49/835, 15-16=0/672,

14-15=0/0

WEBS 4-24=-147/42, 5-23=-14/155, 8-20=-738/0,

10-18=-295/0, 11-17=-145/0, 2-27=-869/0, 2-26=0/560, 3-26=-530/0, 3-25=0/233, 4-25=-221/63, 5-22=-567/0, 7-22=0/490, 7-21=-787/0, 8-21=0/883, 9-20=-634/0. 9-18=0/659, 11-16=-48/136, 12-16=-37/164,

12-15=-533/0, 13-15=0/435

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.

- 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



January 22,2025

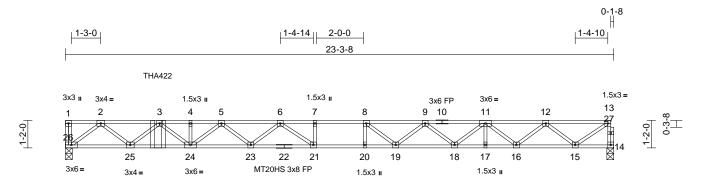


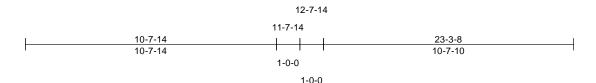
Job Truss Truss Type Qtv Ply Blake Pond Lot 00 0128 OWF 170927173 2501-0740-A 2F1GR Floor Girder 2 Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788.

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:03 ID:GgGzZ_k6rB9cQ097k3O73cztTLT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:44.3

Loading	(psf)	Spacing	1-2-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.31	21-23	>890	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.48	21-23	>580	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 234 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-14:2x4 SP SS

(flat)

WEBS 2x4 SP No.3(flat)

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) 14=0-3-8, 26=0-3-8

Max Grav 14=837 (LC 1), 26=1435 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-60/0, 13-14=-833/0, 1-2=0/0, 2-3=-3006/0, 3-4=-4560/0, 4-5=-4560/0,

5-6=-5115/0, 6-7=-5174/0, 7-8=-5174/0, 8-9=-4767/0, 9-11=-3965/0, 11-12=-2719/0,

12-13=-1116/0

BOT CHORD 25-26=0/1802, 24-25=0/4190, 23-24=0/4925, 21-23=0/5250, 20-21=0/5174, 19-20=0/5174,

18-19=0/4443, 17-18=0/3437, 16-17=0/3437,

15-16=0/2021, 14-15=0/50

WEBS 7-21=-123/86, 8-20=-68/264, 2-26=-2261/0,

2-25=0/1567, 3-25=-1541/0, 3-24=0/473, 4-24=-4/39. 5-24=-466/0. 5-23=0/268. 6-23=-273/43 6-21=-429/328 8-19=-783/0 9-19=0/548, 9-18=-622/0, 11-18=0/675,

11-17=-5/9, 11-16=-916/0, 12-16=0/909,

12-15=-1179/0, 13-15=0/1313

NOTES

- Special connection required to distribute top chord loads equally between all plies.
- Special connection required to distribute bottom chord loads equally between all plies.
- Special connection required to distribute web loads equally between all plies.

- 2-ply truss to be connected together with 7/16" x 1-3/4" Staple as follows:
 - Top chords connected as follows: 2x4(flat) 4 rows staggered at 0-1-0 oc.

Bottom chords connected as follows: 2x4(flat) - 4 rows

staggered at 0-1-0 oc. Web connected as follows: 2x4(flat) - 4 rows staggered

at 0-1-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced 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.
- 9) Bearings are assumed to be: Joint 26 SP No.2, Joint 14 SP SS
- 10) 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.
- 11) 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.
- 12) CAUTION, Do not erect truss backwards.
- 13) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 3-11-4 from the left end to connect truss (es) to front face of top chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) 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: 14-26=-6, 1-3=-158, 3-13=-58

Concentrated Loads (lb)

Vert: 3=-410 (F)



January 22,2025

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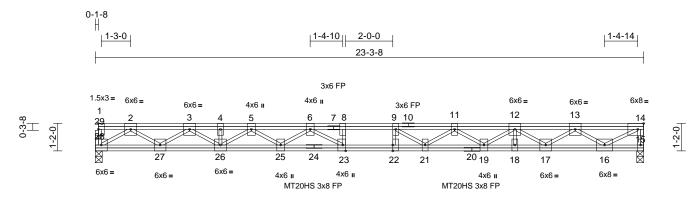
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

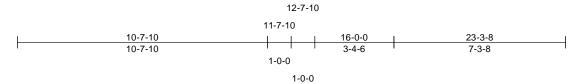


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	2F1	Floor	3	1	Job Reference (optional)	170927174

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:35:03 ID:r5bqwyiEYGn1ZYQY3wrQR_ztTLW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:44.2

Plate Offsets (X, Y): [14:0-3-0,Edge], [22:0-3-0,Edge], [23:0-3-0,Edge], [29:0-1-8,0-0-8]

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	0.13	Vert(LL)	-0.36	22-23	>773	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.49	22-23	>562	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 180 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP DSS(flat) **BOT CHORD** 2x4 SP DSS(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) 15=0-3-8, 28=0-3-8

Max Grav 15=1010 (LC 1), 28=1010 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-28=-38/0, 14-15=-992/0, 1-2=0/0, 2-3=-2442/0, 3-4=-4322/0, 4-5=-4322/0,

5-6=-5524/0, 6-8=-6212/0, 8-9=-6212/0, 9-11=-5956/0, 11-12=-5110/0, 12-13=-3596/0,

13-14=-1495/0

BOT CHORD 27-28=0/1469, 26-27=0/3487, 25-26=0/5062,

23-25=0/5962, 22-23=0/6212, 21-22=0/6212,

19-21=0/5677, 18-19=0/4487, 17-18=0/4487, 16-17=0/2709. 15-16=0/0

WEBS 2-28=-1713/0. 2-27=0/1209. 3-27=-1295/0.

3-26=0/1019, 4-26=-55/0, 5-26=-902/0, 5-25=0/572, 6-25=-547/0, 6-23=-179/706

9-21=-657/140, 11-21=0/528, 11-19=-703/0, 12-19=0/760, 12-18=-6/0, 12-17=-1086/0, 13-17=0/1100, 13-16=-1505/0, 14-16=0/1742,

8-23=-241/8, 9-22=-159/158

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 (||) MT20 unless otherwise indicated.
- All bearings are assumed to be SP DSS.

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.

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 22,2025

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

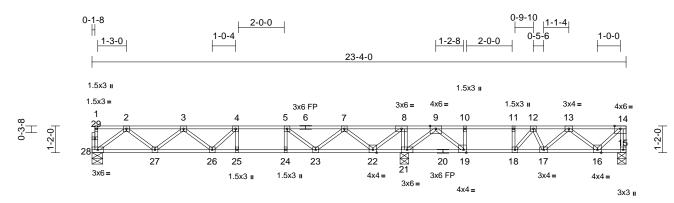
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F5	Floor	3	1	Job Reference (optional)	170927175

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:57 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



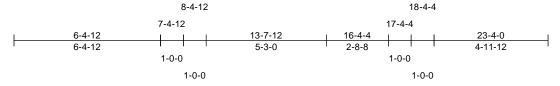


Plate Offsets (X, Y): [19:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.12	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.23	17-18	>498	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:44.2

2x4 SP No.2(flat) *Except* 6-14:2x4 SP SS TOP CHORD

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 20-15:2x4 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, Except:

6-0-0 oc bracing: 21-22.

15=0-4-8, 21=0-4-8, 28=0-5-8 REACTIONS (size) 15=828 (LC 4), 21=1301 (LC 1), Max Grav

28=587 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-28=-32/0, 14-15=-815/0, 1-2=-2/0,

2-3=-1176/0, 3-4=-1775/0, 4-5=-1874/0, 5-7=-1523/0, 7-8=-658/0, 8-9=-270/224,

9-10=-1968/0, 10-11=-1968/0, 11-12=-1968/0,

12-13=-2286/0, 13-14=-793/0

BOT CHORD 27-28=0/722, 26-27=0/1605, 25-26=0/1874,

24-25=0/1874, 23-24=0/1874, 22-23=0/1208, 21-22=-224/270, 19-21=0/1064,

18-19=0/1968, 17-18=0/2453, 16-17=0/1684,

15-16=0/0

4-25=-113/68, 5-24=-36/126, 8-21=-767/0,

10-19=-583/0, 11-18=0/397, 2-28=-904/0, 2-27=0/590, 3-27=-558/0, 3-26=0/272, 4-26=-278/0, 5-23=-494/0, 7-23=0/440 7-22=-739/0, 8-22=0/869, 9-21=-1045/0 9-19=0/1313, 14-16=0/1080, 13-16=-1161/0,

13-17=0/827, 12-17=-425/0, 12-18=-934/0

NOTES

WEBS

Unbalanced floor live loads have been considered for this design.

- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 28 SP No.2, Joint 21 SP No.2, Joint 15 SP SS.
- 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: 15-28=-8, 1-14=-80 Concentrated Loads (lb)

Vert: 12=-640

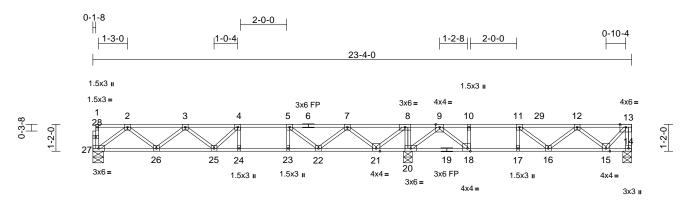


January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F4	Floor	1	1	Job Reference (optional)	170927176

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:57 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



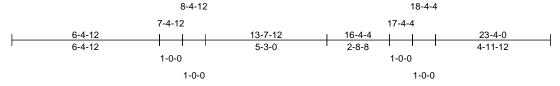


Plate Offsets (X, Y): [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.12	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.21	16-17	>551	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:44.2

2x4 SP No.2(flat) *Except* 6-13:2x4 SP SS TOP CHORD

(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 19-14:2x4 SP SS

(flat)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-15 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 20-21.

14=0-4-8, 20=0-4-8, 27=0-5-8 REACTIONS (size) Max Grav

14=823 (LC 4), 20=1170 (LC 1),

27=592 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-32/0, 13-14=-810/0, 1-2=-2/0,

2-3=-1189/0, 3-4=-1802/0, 4-5=-1912/0, 5-7=-1573/0, 7-8=-719/0, 8-9=-317/210,

9-10=-1630/0, 10-11=-1630/0, 11-12=-1590/0,

12-13=-587/0

BOT CHORD 26-27=0/730, 25-26=0/1624, 24-25=0/1912,

23-24=0/1912, 22-23=0/1912, 21-22=0/1266, 20-21=-210/317, 18-20=0/961, 17-18=0/1630,

16-17=0/1630, 15-16=0/1349, 14-15=0/0

4-24=-108/74, 5-23=-42/122, 8-20=-746/0, WEBS

10-18=-399/0, 11-17=-314/0, 2-27=-913/0, 2-26=0/598. 3-26=-566/0. 3-25=0/281. 4-25=-292/0, 5-22=-490/0, 7-22=0/438 7-21=-741/0, 8-21=0/865, 9-20=-856/0 9-18=0/1007, 11-16=-51/120, 12-16=0/315,

12-15=-991/0, 13-15=0/857

NOTES

Unbalanced floor live loads have been considered for this design.

- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 27 SP No.2, Joint 20 3) SP No.2, Joint 14 SP SS.
- 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: 14-27=-8, 1-13=-80 Concentrated Loads (lb)

Vert: 13=-155, 29=-355

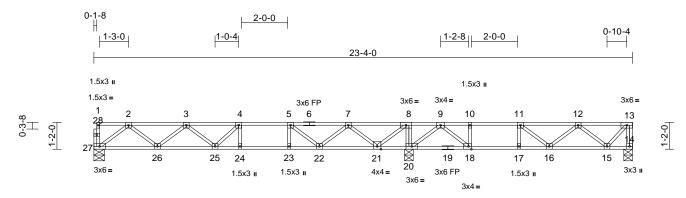


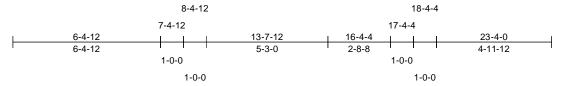
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F2	Floor	9	1	Job Reference (optional)	170927177

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:55 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:44.2 Plate Offsets (X, Y): [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.12	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.17	24-25	>975	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 116 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 6-0-0 oc

bracing.

REACTIONS (size)

14=0-4-8, 20=0-4-8, 27=0-5-8 14=415 (LC 4), 20=1091 (LC 1), Max Grav

27=566 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-33/0, 13-14=-409/0, 1-2=-2/0, 2-3=-1124/0, 3-4=-1672/0, 4-5=-1730/0,

5-7=-1336/0, 7-8=-411/0, 8-9=0/556, 9-10=-867/46, 10-11=-867/46, 11-12=-847/0, 12-13=-326/0

BOT CHORD

26-27=0/694, 25-26=0/1531, 24-25=0/1730, 23-24=0/1730, 22-23=0/1730, 21-22=0/992,

20-21=-556/0, 18-20=-285/442,

17-18=-46/867, 16-17=-46/867, 15-16=0/735,

14-15=0/0 4-24=-146/42, 5-23=-14/155, 8-20=-740/0,

10-18=-303/0, 11-17=-152/0, 2-27=-869/0, 2-26=0/560, 3-26=-530/0, 3-25=0/233, 4-25=-221/62, 5-22=-567/0, 7-22=0/490, 7-21=-787/0, 8-21=0/884, 9-20=-647/0,

9-18=0/680, 11-16=-24/140, 12-16=-40/147, 12-15=-532/0, 13-15=0/476

NOTES

WEBS

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 .

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

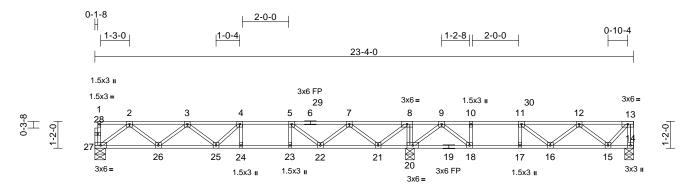


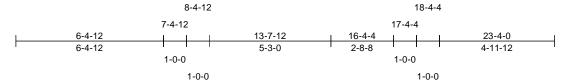
January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F2A	Floor	2	2	Job Reference (optional)	170927178

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:56 ID:37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:44.2

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.06	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.08	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 233 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

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

bracing, Except:

6-0-0 oc bracing: 20-21,18-20.

REACTIONS 14=0-4-8, 20=0-4-8, 27=0-5-8

Max Grav 14=471 (LC 4), 20=1567 (LC 1),

27=581 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-27=-32/0, 13-14=-464/0, 1-2=-2/0, 2-3=-1163/0, 3-4=-1748/0, 4-5=-1839/0, 5-7=-1466/0, 7-8=-376/0, 8-9=0/785,

9-10=-1101/0, 10-11=-1101/0, 11-12=-1035/0,

12-13=-378/0

BOT CHORD 26-27=0/715, 25-26=0/1586, 24-25=0/1839,

23-24=0/1839, 22-23=0/1839, 21-22=0/1132,

20-21=-785/0, 18-20=-259/468,

17-18=0/1101, 16-17=0/1101, 15-16=0/856, 14-15=0/0

4-24=-123/65, 5-23=-34/135, 8-20=-1029/0,

10-18=-455/0. 11-17=-181/0. 2-27=-895/0. 2-26=0/582, 3-26=-551/0, 3-25=0/261, 4-25=-266/17. 5-22=-538/0. 7-22=0/479. 7-21=-1015/0, 8-21=0/1126, 9-20=-967/0, 9-18=0/949, 11-16=-85/80, 12-16=0/232,

12-15=-623/0. 13-15=0/552

NOTES

WEBS

- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
- 2)
- N/A 3)

- 2-ply truss to be connected together with 7/16" x 1-3/4" Staple as follows:
 - Top chords connected as follows: 2x4(flat) 4 rows staggered at 0-1-0 oc.

Bottom chords connected as follows: 2x4(flat) - 4 rows staggered at 0-1-0 oc.

Web connected as follows: 2x4(flat) - 4 rows staggered at 0-1-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- 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.
- 10) 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.
- 11) 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: 14-27=-8, 1-29=-80, 29-30=-140, 13-30=-80



January 22,2025

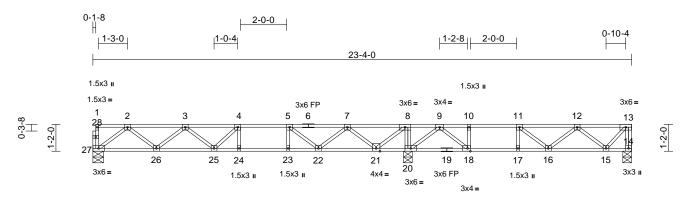
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F1	Floor	1	1	Job Reference (optional)	170927179

Run: 8.83 S. Dec. 4.2024 Print: 8.830 S.Dec. 4.2024 MiTek Industries. Inc. Wed. Jan. 22.06:34:53. ID: 37PCqq1f098d8wmdWXmevQzuBGy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 1



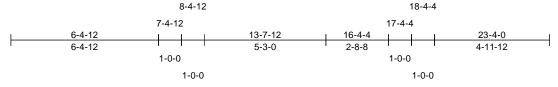


Plate Offsets (X, Y): [18:0-1-8,Edge]

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	0.75	Vert(LL)	-0.12	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.17	24-25	>975	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:44.2

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 6-0-0 oc

bracing.

REACTIONS (size) 14=0-4-8, 20=0-4-8, 27=0-5-8

Max Grav 14=415 (LC 4), 20=1091 (LC 1),

27=566 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-33/0, 13-14=-409/0, 1-2=-2/0,

2-3=-1124/0, 3-4=-1672/0, 4-5=-1730/0, 5-7=-1336/0, 7-8=-411/0, 8-9=0/556, 9-10=-867/46, 10-11=-867/46, 11-12=-847/0,

12-13=-326/0

BOT CHORD 26-27=0/694, 25-26=0/1531, 24-25=0/1730,

23-24=0/1730, 22-23=0/1730, 21-22=0/992,

20-21=-556/0, 18-20=-285/442,

17-18=-46/867, 16-17=-46/867, 15-16=0/735, 14-15=0/0

4-24=-146/42, 5-23=-14/155, 8-20=-740/0,

10-18=-303/0, 11-17=-152/0, 2-27=-869/0, 2-26=0/560, 3-26=-530/0, 3-25=0/233, 4-25=-221/62, 5-22=-567/0, 7-22=0/490, 7-21=-787/0, 8-21=0/884, 9-20=-647/0, 9-18=0/680, 11-16=-24/140, 12-16=-40/147,

12-15=-532/0, 13-15=0/476

NOTES

WEBS

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 .

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



January 22,2025



Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F1A	Floor	1	1	Job Reference (optional)	170927180

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:55 ID:T1ejGCwZwGa_DdY?IMX03bzuAcU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

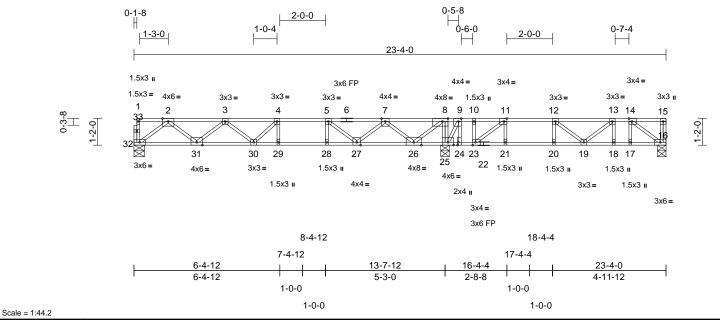


Plate Offsets (X, Y): [8:0-3-0,Edge], [9:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.10	29-30	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.27	29-30	>594	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.05	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 119 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 6-0-0 oc purlins, except end verticals.

BOT CHORD bracing, Except:

16=0-4-8, 25=0-4-8, 32=0-5-8 REACTIONS (size)

Max Grav

FORCES

5-7=-2659/0, 7-8=-618/0, 8-9=0/1066, 9-10=-133/458, 10-11=-133/458,

13-14=-1186/0, 14-15=0/0

31-32=0/1462, 30-31=0/3204, 29-30=0/3552. **BOT CHORD**

28-29=0/3552, 27-28=0/3552, 26-27=0/1905, 25-26=-1066/0. 24-25=-458/133.

17-18=0/1186, 16-17=0/1186

11-21=0/469, 12-20=-414/0, 2-32=-1829/0, 2-31=0/1143, 3-31=-1124/0, 3-30=0/388, 4-30=-263/20, 5-27=-1192/0, 7-27=0/1014, 7-26=-1700/0, 8-26=0/1847, 11-23=-1919/0, 9-25=-1409/0, 9-24=0/642, 10-23=0/480,

13-18=-544/0, 14-17=0/467

Structural wood sheathing directly applied or

Rigid ceiling directly applied or 10-0-0 oc

6-0-0 oc bracing: 25-26,24-25,23-24.

16=826 (LC 4), 25=2359 (LC 1),

32=1188 (LC 11)

(lb) - Maximum Compression/Maximum

TOP CHORD 1-32=-72/0, 15-16=-50/0, 1-2=-4/0,

2-3=-2340/0, 3-4=-3464/0, 4-5=-3552/0, 11-12=-1541/0, 12-13=-1606/0,

23-24=-458/133 21-23=0/1541

20-21=0/1541, 19-20=0/1541, 18-19=0/1186,

4-29=-269/0. 5-28=0/262. 8-25=-1400/0.

12-19=0/243, 14-16=-1465/0, 13-19=0/536,

Unbalanced floor live loads have been considered for

All bearings are assumed to be SP SS

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: 16-32=-8, 1-15=-180





NOTES

WFBS

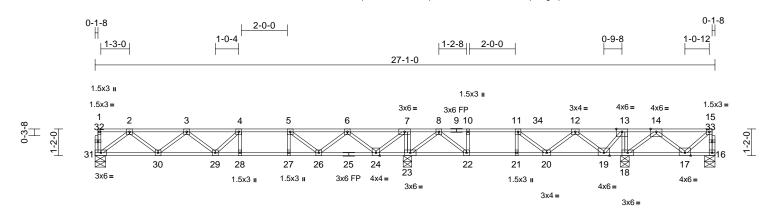


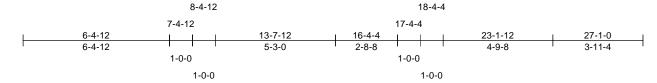


Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0128 OWF	
2501-0740-A	1F6	Floor	1	1	Job Reference (optional)	170927181

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Wed Jan 22 06:34:58 ID:bxrpcU00Fr0nWmBQzpFPMDzuBGz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.13	28-29	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.16	28-29	>984	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.03	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%F, 12%E

LUMBER

Scale = 1:50

TOP CHORD 2x4 SP No.2(flat) *Except* 9-15:2x4 SP DSS

(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.

Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD Rigid ce bracing.

REACTIONS (size) 16=0-5-8, 18=0-4-8, 23=0-4-8,

31=0-5-8

Max Uplift 16=-462 (LC 3)

x Grav 16=-195 (LC 5), 18=1928 (LC 14), 23=1028 (LC 3), 31=573 (LC 14)

FORCES (lb) - Ma

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-31=-32/0, 15-16=0/466, 1-2=-2/0, 2-3=-1141/0, 3-4=-1705/0, 4-5=-1776/0,

2-3=-1141/0, 3-4=-1705/0, 4-5=-1776/0, 5-6=-1396/0, 6-7=-488/0, 7-8=-106/349, 8-10=-906/0, 10-11=-906/0, 11-12=-356/126,

12-13=0/1770, 13-14=0/2649, 14-15=0/767

BOT CHORD 30-31=0/703, 29-30=0/1555, 28-29=0/1776, 27-28=0/1776, 26-27=0/1776, 24-26=0/1062,

23-24=-349/106, 22-23=-58/542,

21-22=0/906, 20-21=0/906, 19-20=-562/0, 18-19=-2649/0, 17-18=-1601/0, 16-17=-28/0 4-28=-132/52, 5-27=-22/143, 7-23=-729/0,

10-22=-228/0, 11-21=-159/0, 13-18=-1058/0, 2-31=-880/0, 2-30=0/569, 3-30=-539/0, 3-29=0/247, 4-29=-242/32, 5-26=-520/0, 6-26=0/459, 6-24=-763/0, 7-24=-0/869, 8-23=-564/0, 8-22=0/570, 11-20=-707/0, 12-20=0/834, 12-19=-1644/0, 13-19=-0/1380,

14-18=-1436/0, 14-17=0/1085,

15-17=-1008/0

NOTES

WEBS

 Unbalanced floor live loads have been considered for this design.

- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint
- 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 16-31=-8, 1-15=-80 Concentrated Loads (lb) Vert: 15=-207, 34=-612



January 22,2025

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

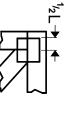
Design valid for use only with Mi 1ek® connectors. I his design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANS/TPH1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



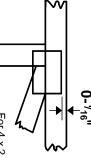
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

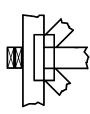
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

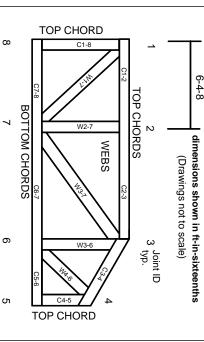
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

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

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