

RE: 4619273

JSJ, Belford Prime A

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: JSJ Builders Project Name: 4619273 Lot/Block: 2 Model: Model: BELFORD PRIME Address: Subdivision: ILAS WAY

City: Dunn State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf Roof Load: 40.0 psf

This package includes 46 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I71926193	A01	3/12/2025	21	171926213	C01	3/12/2025
2	I71926194	A02	3/12/2025	22	171926214	CJ1	3/12/2025
3	171926195	A03	3/12/2025	23	171926215	D01	3/12/2025
4	171926196	A04	3/12/2025	24	171926216	D02	3/12/2025
5	171926197	A05	3/12/2025	25	171926217	D03	3/12/2025
6	171926198	A06	3/12/2025	26	171926218	E01	3/12/2025
7	171926199	A07	3/12/2025	27	171926219	JA1	3/12/2025
8	171926200	A08	3/12/2025	28	171926220	JA2	3/12/2025
9	171926201	A09	3/12/2025	29	171926221	JA3	3/12/2025
10	171926202	A10	3/12/2025	30	171926222	JA4	3/12/2025
11	171926203	A11	3/12/2025	31	171926223	JA5	3/12/2025
12	171926204	A12	3/12/2025	32	171926224	JA6	3/12/2025
13	171926205	A13	3/12/2025	33	171926225	JA7	3/12/2025
14	171926206	A14	3/12/2025	34	171926226	JA8	3/12/2025
15	171926207	A15	3/12/2025	35	171926227	JA9	3/12/2025
16	171926208	A16	3/12/2025	36	171926228	PB01	3/12/2025
17	171926209	B01	3/12/2025	37	171926229	V01	3/12/2025
18	171926210	B02	3/12/2025	38	171926230	V02	3/12/2025
19	171926211	B03	3/12/2025	39	171926231	V03	3/12/2025
20	171926212	B04	3/12/2025	40	171926232	V04	3/12/2025

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

Truss Engineering Co. under my direct supervision

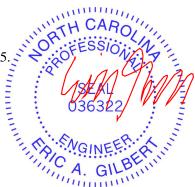
based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



March 12, 2025



RE: 4619273 - JSJ, Belford Prime A

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name: 4619273

Lot/Block: 2 Subdivision: ILAS WAY

Address:

City, County: Dunn State: NC

No.	Seal#	Truss Name	Date
41	171926233	V05	3/12/2025
42	171926234	V06	3/12/2025
43	171926235	V07	3/12/2025
44	171926236	V08	3/12/2025
45	171926237	V09	3/12/2025
46	171926238	V10	3/12/2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A01	Hip Girder	1	2	Job Reference (optional)	I71926193

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:43 ID:Oj3x?rAwS00IGDxR_JiCAlzWhXN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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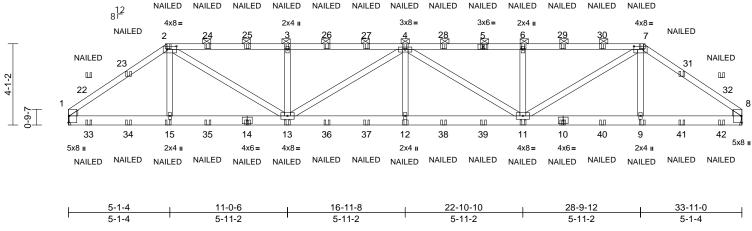


Plate Offsets (X, Y): [1:Edge,0-0-6], [2:0-5-12,0-2-0], [7:0-5-12,0-2-0], [8:Edge,0-0-6]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.15	12-13	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.31	12-13	>999	240	WITZO	244/100
	0.0*	Rep Stress Incr	NO	WB	0.30	- (-)	0.06	12-13				
BCLL		'			0.30	- (- /		0	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.27	12-13	>999	240	Weight: 397 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS Left: 2x4 SP No 2 WEDGE Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (5-3-4 max.): 2-7. **BOT CHORD** Rigid ceiling directly applied or 9-0-9 oc

bracing.

REACTIONS (size) 1= Mechanical, 8= Mechanical

Max Horiz 1=-111 (LC 4)

Max Uplift 1=-1185 (LC 5), 8=-1185 (LC 4) Max Grav 1=2309 (LC 1), 8=2309 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3329/1837, 2-3=-4801/2788,

> 3-4=-4801/2788, 4-6=-4801/2788, 6-7=-4801/2788, 7-8=-3329/1838

BOT CHORD 1-15=-1551/2743, 13-15=-1553/2754, 12-13=-3164/5538. 11-12=-3164/5538.

9-11=-1460/2697, 8-9=-1460/2687

7-9=-80/344, 2-15=-79/344,

7-11=-1528/2550, 3-13=-398/343,

2-13=-1527/2549, 4-13=-789/473,

4-12=-185/507, 4-11=-788/472,

6-11=-398/343

NOTES

WEBS

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

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

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1185 lb uplift at joint 1 and 1185 lb uplift at joint 8.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-7=-60, 7-8=-60, 16-19=-20 Concentrated Loads (lb)

Vert: 2=-3 (F), 5=-3 (F), 7=-3 (F), 14=-110 (F), 9=-110 (F), 15=-110 (F), 11=-110 (F), 13=-110 (F), 3=-3 (F), 12=-110 (F), 4=-3 (F), 6=-3 (F), 10=-110 (F), 22=-58 (F), 24=-3 (F), 25=-3 (F), 26=-3 (F), 27=-3 (F), 28=-3 (F), 29=-3 (F), 30=-3 (F), 32=-58 (F), 33=-53 (F), 34=-112 (F), 35=-110 (F), 36=-110 (F), 37=-110 (F), 38=-110 (F), 39=-110 (F), 40=-110 (F), 41=-112 (F), 42=-53 (F)



March 12,2025

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

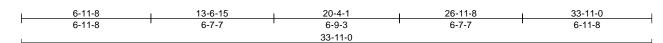
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

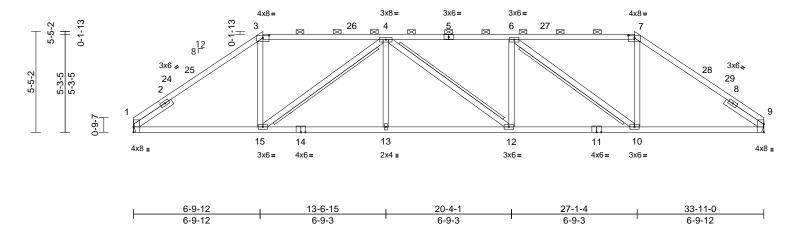


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A02	Hip	1	1	Job Reference (optional)	1926194

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:44 ID:YyX6KvsBuqP4JcggfdmtozzWhZ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:62

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.14	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.30	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.19	10-12	>999	240	Weight: 177 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-5-4 max.): 3-7. BOT CHORD Rigid ceiling directly applied or 7-1-7 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 4-15.

6-10, 4-12

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9= Mechanical

Max Horiz 1=152 (LC 9) Max Uplift 1=-284 (LC 9), 9=-284 (LC 8)

Max Grav 1=1357 (LC 1), 9=1357 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1904/581, 3-4=-1499/547,

4-6=-2280/758, 6-7=-1499/547,

7-9=-1904/581

1-15=-460/1518, 13-15=-685/2280, BOT CHORD

12-13=-685/2280, 10-12=-644/2280,

9-10=-346/1518

WEBS 7-10=-142/703, 3-15=-142/703,

4-15=-1044/444, 6-10=-1045/443

4-13=0/276, 4-12=-51/51, 6-12=0/276

NOTES

FORCES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-4-11, Interior (1) 3-4-11 to 6-11-8, Exterior (2) 6-11-8 to 11-9-1, Interior (1) 11-9-1 to 26-11-8, Exterior (2) 26-11-8 to 31-9-1, Interior (1) 31-9-1 to 33-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 1 and 284 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



March 12,2025

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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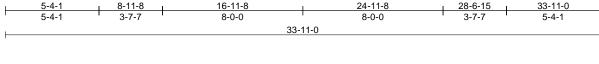


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A03	Hip	1	1	Job Reference (optional)	171926195

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:45 ID:I2HHuK6E1H7fQK5pfggtQOzWhbK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

16-11-8 24-11-8 28-6-15 33-11-0

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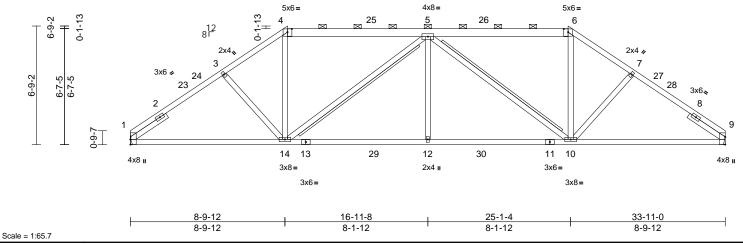


Plate Offsets (X, Y): [4:0-3-0,0-2-3], [6:0-3-0,0-2-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.13	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.28	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	10-12	>999	240	Weight: 199 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-6:2x6 SP No.2 TOP CHORD

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

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

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-9 oc purlins, except

2-0-0 oc purlins (5-8-7 max.): 4-6 BOT CHORD Rigid ceiling directly applied or 8-2-13 oc

bracing.

WFBS 2x4 SPF No.2 - 5-14, T-Brace:

5-10

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9= Mechanical

Max Horiz 1=197 (LC 9) Max Uplift 1=-257 (LC 12), 9=-257 (LC 13)

Max Grav 1=1357 (LC 1), 9=1357 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-1888/588, 3-4=-1747/590, 4-5=-1429/533, 5-6=-1429/533,

6-7=-1747/590, 7-9=-1888/588

1-14=-432/1505, 12-14=-497/1925,

BOT CHORD 10-12=-497/1925, 9-10=-382/1505

WEBS 3-14=-224/234, 4-14=-141/629,

5-14=-745/344, 5-12=0/387, 5-10=-745/343,

6-10=-141/629, 7-10=-224/235

NOTES

FORCES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-4-11, Interior (1) 3-4-11 to 8-11-8, Exterior (2) 8-11-8 to 13-9-1, Interior (1) 13-9-1 to 24-11-8, Exterior (2) 24-11-8 to 29-9-1, Interior (1) 29-9-1 to 33-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 1 and 257 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



March 12,2025

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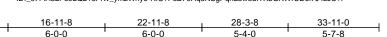


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A04	Hip	1	1	Job Reference (optional)	171926196

33-11-0

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S. Feb 18.2025 Print: 8.830 S. Feb 18.2025 MiTek Industries. Inc. Mon Mar 10.12:56:45 ID:_07FIA3LPs9LQ213FKv_ymzWhye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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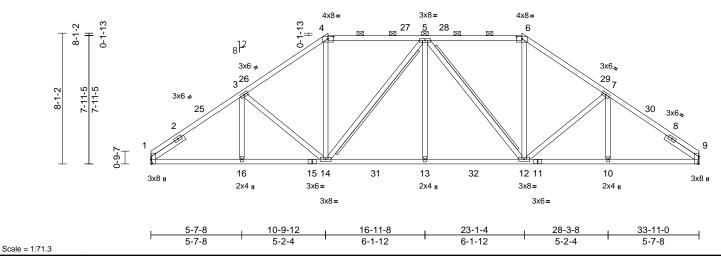


Plate Offsets (X, Y): [1:0-3-8,Edge], [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [9:0-5-4,Edge]

5-7-8

5-7-8

10-11-8

5-4-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.10	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.21	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	13-14	>999	240	Weight: 207 lb	FT = 20%

LUMBER

BRACING

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

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

TOP CHORD Structural wood sheathing directly applied or

3-5-11 oc purlins, except

2-0-0 oc purlins (4-7-10 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 9-4-4 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 5-14,

5-12

Fasten (2X) T and I braces to narrow edge of

web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9= Mechanical

Max Horiz 1=241 (LC 9)

Max Uplift 1=-283 (LC 12), 9=-283 (LC 13) Max Grav 1=1357 (LC 1), 9=1357 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1904/563, 3-4=-1677/579,

4-5=-1325/541, 5-6=-1325/541,

6-7=-1677/579, 7-9=-1904/563

BOT CHORD 1-16=-385/1522, 14-16=-385/1522, 13-14=-314/1538, 12-13=-314/1538,

10-12=-364/1522, 9-10=-364/1522

WEBS 3-16=0/163, 3-14=-387/273, 4-14=-129/582,

5-14=-471/249, 5-13=0/327, 5-12=-471/249,

6-12=-129/582, 7-12=-387/274, 7-10=0/163

NOTES

FORCES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-4-11, Interior (1) 3-4-11 to 10-11-8, Exterior (2) 10-11-8 to 15-9-1, Interior (1) 15-9-1 to 22-11-8, Exterior (2) 22-11-8 to 27-9-1, Interior (1) 27-9-1 to 33-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 1 and 283 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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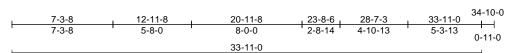
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

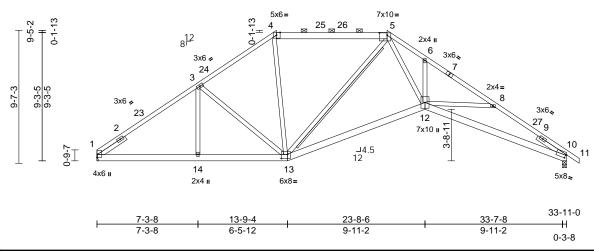
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A05	Hip	1	1	Job Reference (optional)	I71926197

Run: 8.83 S. Feb 18.2025 Print: 8.830 S. Feb 18.2025 MiTek Industries. Inc. Mon Mar 10.12:56:45 ID:zgU7w511QISPj_1jnzt3?qzWhzz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:83.2

Plate Offsets (X, Y): [1:Edge,0-0-6], [4:0-3-5,Edge], [5:0-6-12,0-2-0], [10:0-0-11,0-3-2], [13:0-5-8,0-3-8]

												-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.19	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.40	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.24	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	12-13	>999	240	Weight: 226 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS *Except* 4-5:2x6 SP No.2

2x6 SP 2400F 2.0E or 2x6 SP DSS **BOT CHORD** 2x4 SP No.3 WFBS

OTHERS 2x4 SPF No.2(flat)

SLIDER Left 2x4 SP No.2 -- 2-4-9, Right 2x4 SP No.2

-- 2-6-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-9-8 oc purlins, except

2-0-0 oc purlins (5-6-0 max.): 4-5. Rigid ceiling directly applied or 9-9-9 oc

bracing.

2x4 SPF No.2 - 5-13 WEBS T-Brace:

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 10=0-3-8

Max Horiz 1=-299 (LC 8)

Max Uplift 1=-304 (LC 12), 10=-335 (LC 13) Max Grav 1=1353 (LC 1), 10=1410 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1886/554, 3-4=-1539/555,

4-5=-1292/532, 5-6=-3369/945, 6-8=-3423/809, 8-10=-3674/985, 10-11=0/31

1-14=-385/1498, 13-14=-385/1498,

BOT CHORD 12-13=-246/1860, 10-12=-744/3165

3-14=0/228, 3-13=-529/328, 4-13=-69/469,

6-12=-288/271, 8-12=-349/403,

5-13=-800/132, 5-12=-474/2329

NOTES

WEBS

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-5-7, Interior (1) 3-5-7 to 12-11-8, Exterior (2) 12-11-8 to 17-9-1, Interior (1) 17-9-1 to 20-11-8, Exterior (2) 20-11-8 to 25-9-1, Interior (1) 25-9-1 to 34-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 10 SP 2400F 2.0E or DSS.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 1 and 335 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



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Page: 1

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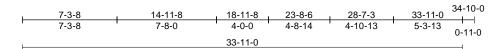
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

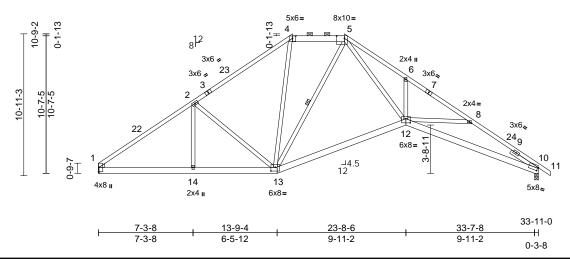


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A06	Hip	1	1	Job Reference (optional)	171926198

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:46 ID:JBYAsVECGGoPzEjH6uDL?dzWi0H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:88.8

Plate Offsets (X, Y): [1:Edge,0-0-6], [4:0-3-0,0-2-3], [5:0-7-5,Edge], [10:0-0-11,0-3-2], [12:0-4-0,0-3-12], [13:0-4-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.20	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.43	12-13	>937	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.25	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.19	12-13	>999	240	Weight: 226 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS *Except* 4-5:2x6 SP No.2 2x6 SP 2400F 2 0F or 2x6 SP DSS

BOT CHORD WFBS 2x4 SP No.3 *Except* 12-5:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

> 2-9-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

bracing.

WFBS 1 Row at midpt 5-13

REACTIONS (size) 1= Mechanical, 10=0-3-8

Max Horiz 1=-344 (LC 10)

Max Uplift 1=-323 (LC 12), 10=-353 (LC 13)

Max Grav 1=1356 (LC 1), 10=1412 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-1945/542, 2-4=-1543/551, TOP CHORD

4-5=-1281/538, 5-6=-3454/968, 6-8=-3438/781, 8-10=-3673/939, 10-11=0/31

BOT CHORD 1-14=-457/1564, 13-14=-457/1564,

12-13=-140/1455, 10-12=-703/3163 **WEBS** 6-12=-409/340, 8-12=-311/380, 2-14=0/222,

5-12=-534/2522, 4-13=-113/504,

5-13=-555/101, 2-13=-613/386

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-4-11, Interior (1) 3-4-11 to 14-11-8, Exterior (2) 14-11-8 to 23-8-6, Interior (1) 23-8-6 to 34-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber
- Provide adequate drainage to prevent water ponding.

DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 10 SP 2400F 2.0E or DSS
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 353 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

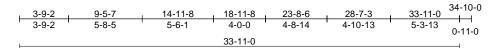
LOAD CASE(S) Standard

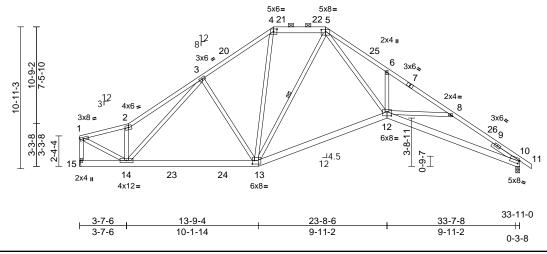


March 12,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A07	Piggyback Base	1	1	Job Reference (optional)	I71926199

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:46 ID:0GSNawXJMXsPuOdGCAZqDnzWhvS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:88.8

Plate Offsets (X, Y): [4:0-3-0,0-2-3], [5:0-4-0,0-1-9], [10:0-0-11,0-3-2], [12:0-4-0,0-3-12], [13:0-1-15,0-3-5]

		ı		1					-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.20	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.43	12-13	>936	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.25	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.19	12-13	>999	240	Weight: 241 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 4-5:2x6 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS WFBS

2x4 SP No.3 *Except* 15-1,12-5:2x4 SP No.2 **SLIDER** Right 2x4 SP No.2 -- 2-6-0

BRACING TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or

2-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

bracing.

WEBS 1 Row at midpt 5-13

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

Max Horiz 15=320 (LC 11)

Max Uplift 10=-350 (LC 13), 15=-323 (LC 12) Max Grav 10=1407 (LC 1), 15=1350 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1559/391, 2-3=-1918/606,

3-4=-1530/562, 4-5=-1238/505, 1-15=-1319/360, 5-6=-3456/931

6-8=-3416/743, 8-10=-3654/906, 10-11=0/31

BOT CHORD 14-15=-311/290, 13-14=-349/1418, 12-13=-129/1432, 10-12=-675/3147

WEBS 1-14=-381/1679, 6-12=-451/351,

8-12=-317/380, 5-12=-512/2545, 4-13=-157/613, 5-13=-557/94,

2-14=-900/398, 3-13=-508/377,

3-14=-139/360

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 8-2-4 to 11-9-10, Interior (1) 11-9-10 to 23-0-0, Exterior (2) 23-0-0 to 26-4-11, Interior (1) 26-4-11 to 27-0-0, Exterior (2) 27-0-0 to 30-4-11, Interior (1) 30-4-11 to 42-10-8 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 10 SP 2400F 2.0E or DSS.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 15 and 350 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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

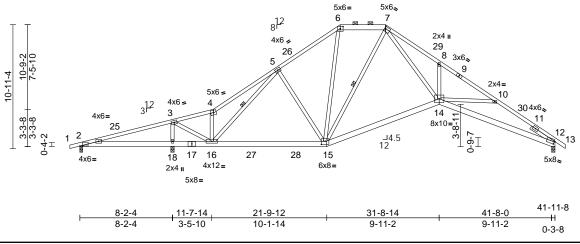
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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A08	Piggyback Base	3	1	Job Reference (optional)	171926200

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:46 ID:cfhpGhMPAS1b7IPq?IUrAezWi6a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:101.7

Plate Offsets (X, Y): [2:0-2-12,0-0-2], [6:0-3-0,0-2-3], [7:0-1-0,0-2-4], [12:0-0-11,0-3-2], [15:0-4-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.19	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.40	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.22	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.17	14-15	>999	240	Weight: 274 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS *Except* 6-7:2x6 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS

2x4 SP No.3 WFBS **SLIDER** Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-14 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 5-16, 7-15

REACTIONS 2=0-3-0, 12=0-3-8, 18=0-3-8 (size)

Max Horiz 2=364 (LC 11)

Max Uplift 2=-277 (LC 8), 12=-340 (LC 13),

18=-575 (LC 12) Max Grav

2=82 (LC 23), 12=1317 (LC 1), 18=2134 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-363/1292, 3-4=-663/123,

4-5=-811/239, 5-6=-1318/494, 6-7=-1075/467, 7-8=-3141/848,

8-10=-3103/656, 10-12=-3367/825,

12-13=0/31

BOT CHORD 2-18=-1269/424, 16-18=-1269/424,

15-16=-260/1130, 14-15=-82/1262,

12-14=-606/2903

WEBS 3-18=-1830/524, 8-14=-446/350,

10-14=-346/384, 4-16=-484/250,

3-16=-389/2062, 5-15=-273/308,

5-16=-713/265, 6-15=-143/495,

7-15=-584/99, 7-14=-471/2368

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 3-3-14, Interior (1) 3-3-14 to 23-0-0, Exterior (2) 23-0-0 to 31-2-6, Interior (1) 31-2-6 to 42-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- All bearings are assumed to be SP 2400F 2.0E or DSS .
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 2, 340 lb uplift at joint 12 and 575 lb uplift at joint 18.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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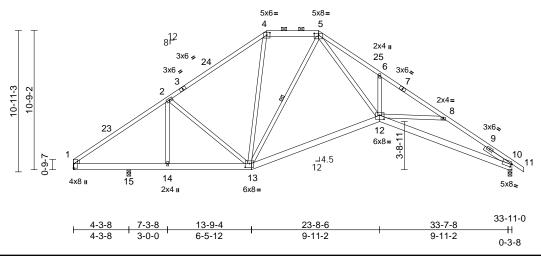
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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A09	Piggyback Base	1	1	Job Reference (optional)	171926201

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:47 ID:oz9po9GeSn?zAXexeP8b28zWhtC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:89.1

Plate Offsets (X, Y): [1:Edge, 0-0-6], [4:0-3-0,0-2-3], [5:0-4-0,0-1-9], [10:0-0-11,0-3-2], [12:0-4-0,0-3-12], [13:0-4-0,0-3-8]

					-			-	-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.19	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.41	12-13	>868	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.24	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.18	12-13	>999	240	Weight: 227 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS *Except* 4-5:2x6 SP No.2 2x6 SP 2400F 2 0F or 2x6 SP DSS

BOT CHORD WFBS 2x4 SP No.3 *Except* 12-5:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or

2-11-13 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 5-13

REACTIONS 1= Mechanical, 10=0-3-8, 15=0-3-8 (size)

Max Horiz 1=-346 (LC 8)

Max Uplift 1=-200 (LC 12), 10=-344 (LC 13),

15=-140 (LC 12)

Max Grav 1=915 (LC 1), 10=1348 (LC 1),

15=505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1487/416, 2-4=-1381/505,

4-5=-1149/505, 5-6=-3253/903,

6-8=-3214/710, 8-10=-3468/874, 10-11=0/31 BOT CHORD

1-15=-350/1198, 14-15=-350/1198, 13-14=-350/1198, 12-13=-103/1322

10-12=-648/2988

WEBS 4-13=-104/415, 6-12=-450/351,

5-13=-566/97, 5-12=-501/2431,

2-13=-284/299, 8-12=-335/382,

2-14=-292/169

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 14-11-8, Exterior (2) 14-11-8 to 23-2-7, Interior (1) 23-2-7 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 15 SP 2400F 2.0E or DSS, Joint 10 SP 2400F 2.0E or DSS
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 1, 140 lb uplift at joint 15 and 344 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 12,2025

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

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



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A10	Piggyback Base	2	1	Job Reference (optional)	171926202

4-0-0

33-11-0

7-8-0

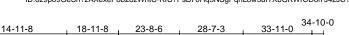
Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:47 ID:oz9po9GeSn?zAXexeP8b28zWhtC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

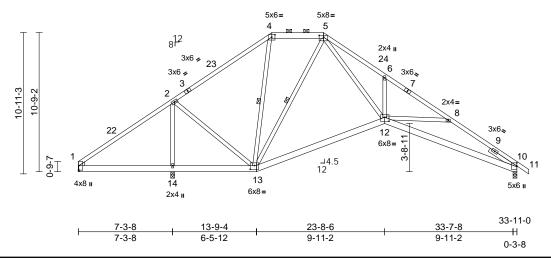
4-10-13

5-3-13

0-11-0



4-8-14



Scale = 1:89.1

Plate Offsets (X, Y): [1:Edge,0-0-6], [4:0-3-0,0-2-3], [5:0-4-0,0-1-9], [10:0-2-15,0-0-1], [12:0-4-0,0-3-12], [13:0-4-0,0-3-8]

7-3-8

7-3-8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.11	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.26	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	12	>999	240	Weight: 227 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS *Except* 4-5:2x6 SP No.2 2x6 SP 2400F 2.0E or 2x6 SP DSS

2x4 SP No.3 WFBS

WEDGE Left: 2x4 SP No.3 **SLIDER** Right 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-9 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 5-13. 4-13

REACTIONS 1= Mechanical, 10=0-3-8, 14=0-3-8 (size)

Max Horiz 1=-346 (LC 8)

Max Uplift 1=-371 (LC 24), 10=-285 (LC 13),

14=-384 (LC 12)

Max Grav 1=55 (LC 8), 10=984 (LC 1),

14=1991 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-260/829, 2-4=-513/292, 4-5=-485/339,

5-6=-2000/612. 6-8=-1951/421.

8-10=-2307/609, 10-11=0/31 BOT CHORD 1-14=-708/372, 13-14=-708/372

12-13=-101/650, 10-12=-425/1998

WFBS 2-13=-101/1072, 2-14=-1729/495,

6-12=-436/349, 8-12=-448/402,

5-13=-694/108, 5-12=-340/1729,

4-13=-172/138

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 14-11-8, Exterior (2) 14-11-8 to 23-2-7, Interior (1) 23-2-7 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 14 SP 2400F 2.0E or DSS, Joint 10 SP 2400F 2.0E or DSS
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 371 lb uplift at joint 1, 384 lb uplift at joint 14 and 285 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

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

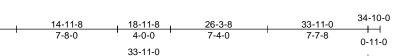


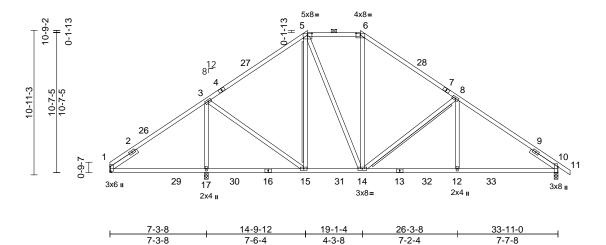
Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A11	Hip	1	1	Job Reference (optional)	I71926203

7-3-8

7-3-8

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:47 ID:tnS_Cs5tME_RWJ9QrFHc7zzWN3?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:87.2

Plate Offsets (X, Y): [5:0-4-0,0-1-9], [6:0-4-0,0-1-9], [10:0-5-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.07	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.16	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	17-20	>999	240	Weight: 207 lb	FT = 20%

LUMBER

BRACING

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

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

TOP CHORD Structural wood sheathing directly applied or

4-2-3 oc purlins, except

2-0-0 oc purlins (5-8-12 max.): 5-6. BOT CHORD Rigid ceiling directly applied or 9-7-10 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 5-15,

8-14

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 10=0-3-8, 17=0-3-8

Max Horiz 1=-344 (LC 8) Max Uplift 1=-236 (LC 12), 10=-346 (LC 13),

17=-110 (LC 12)

1=466 (LC 23), 10=1209 (LC 20),

17=1239 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-556/368. 3-5=-992/471. 5-6=-960/484.

6-8=-1098/479, 8-10=-1411/472, 10-11=0/31

BOT CHORD 1-17=-404/502, 15-17=-338/502, 14-15=-112/735, 12-14=-249/1185

10-12=-262/1185

WEBS 3-17=-960/245, 3-15=-87/580, 5-15=-168/111,

5-14=-154/400, 6-14=-120/312, 8-14=-717/389, 8-12=0/314

NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 14-11-8, Exterior (2) 14-11-8 to 23-2-7, Interior (1) 23-2-7 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 17 SP No.2 , Joint 10 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 236 lb uplift at joint 1, 110 lb uplift at joint 17 and 346 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



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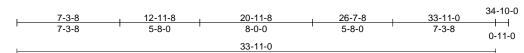
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

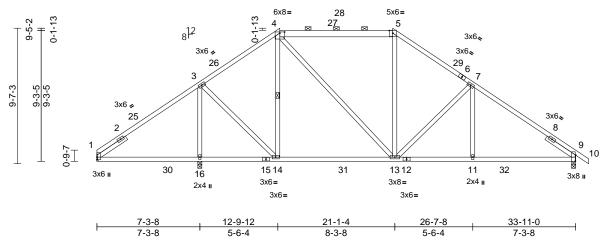
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A12	Hip	1	1	Job Reference (optional)	71926204

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:48 ID:nSOU0va0O0U_nD33Ya_ScvzWN14-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:81.6 Plate Offsets (X, Y): [4:0-4-0,0-1-0], [5:0-3-0,0-2-3], [9:0-5-4,Edge]

•				i e			-					•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.17	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.30	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	16-19	>946	240	Weight: 205 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-5:2x6 SP No.2 TOP CHORD

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

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

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-8 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 8-11-5 oc

bracing.

WEBS 1 Row at midpt 4-14

REACTIONS 1= Mechanical, 9=0-3-8, 16=0-3-8 (size)

1=-299 (LC 10) Max Horiz

Max Uplift 1=-301 (LC 12), 9=-341 (LC 13),

16=-16 (LC 9)

Max Grav 1=563 (LC 19), 9=1190 (LC 1),

16=1070 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-714/437, 3-4=-1021/511,

4-5=-1038/505, 5-7=-1205/523,

7-9=-1429/503. 9-10=0/31 **BOT CHORD**

1-16=-444/612, 14-16=-384/612 13-14=-188/763, 11-13=-274/1189,

9-11=-274/1189

WFBS 3-16=-881/171, 3-14=-174/593,

4-14=-223/201, 4-13=-160/395,

5-13=-77/344, 7-13=-537/334, 7-11=0/220

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-11-8, Exterior (2) 12-11-8 to 17-2-7, Interior (1) 17-2-7 to 20-11-8, Exterior (2) 20-11-8 to 25-2-7, Interior (1) 25-2-7 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 16 SP No.2 , Joint 9 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 301 lb uplift at joint 1, 16 lb uplift at joint 16 and 341 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 12,2025

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

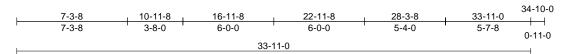
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	JSJ, Belford Prime A
4619273	A13	Hip	1	1	Job Reference (optional)

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:48 ID:Nyp3g8No5_gl4CXYrkfikczWN03-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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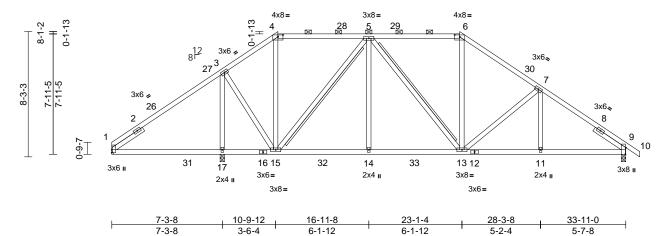


Plate Offsets (X, Y): [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [9:0-5-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.06	17-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.14	17-20	>618	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	17-20	>895	240	Weight: 210 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-2 oc purlins, except

2-0-0 oc purlins (5-5-3 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 9-1-3 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 5-15,

5-13

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance. Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9=0-3-8, 17=0-3-8

Max Horiz 1=-255 (LC 8)

1=-313 (LC 12), 9=-313 (LC 13), Max Uplift

17=-148 (LC 8)

Max Grav 1=541 (LC 19), 9=1172 (LC 1),

17=1163 (LC 2)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-619/443, 3-4=-908/499, 4-5=-755/439,

5-6=-1038/493, 6-7=-1267/515, 7-9=-1515/499, 9-10=0/31

BOT CHORD 1-17=-438/549, 15-17=-365/549,

14-15=-263/1013, 13-14=-263/1013, 11-13=-298/1206, 9-11=-298/1206

3-17=-950/229, 3-15=-301/661, 4-15=-165/336, 5-15=-772/283, 5-14=0/338,

5-13=-197/225, 6-13=-99/397, 7-13=-419/271, 7-11=0/178

NOTES

WEBS

FORCES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-11-8, Exterior (2) 10-11-8 to 15-2-7, Interior (1) 15-2-7 to 22-11-8, Exterior (2) 22-11-8 to 27-2-7, Interior (1) 27-2-7 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 17 SP No.2 , $\dot{\mbox{\sc Joint 9}}$
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 1, 148 lb uplift at joint 17 and 313 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



March 12,2025

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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Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:48 ID:1LeISULzFalPgVewXX5T_UzWN_p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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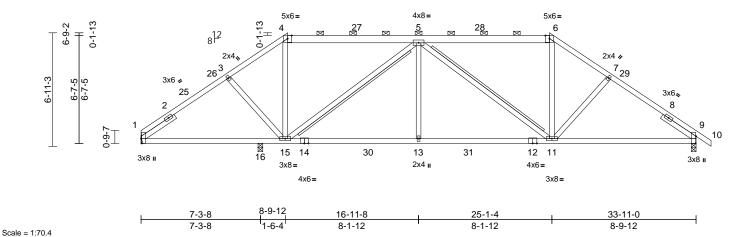


Plate Offsets (X, Y): [1:0-3-8,Edge], [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [9:0-5-4,Edge], [9:0-0-0,0-0-0]

			-					-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.16	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.36	13-15	>899	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.14	13-15	>999	240	Weight: 200 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-6:2x6 SP No.2 TOP CHORD

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

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

BRACING TOP CHORD

WFBS

Structural wood sheathing directly applied or

3-9-11 oc purlins, except 2-0-0 oc purlins (5-10-10 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 8-5-2 oc

bracing. T-Brace:

5-11

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

2x4 SPF No.2 - 5-15,

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9=0-3-8, 16=0-3-8

Max Horiz 1=-210 (LC 10)

1=-249 (LC 12), 9=-291 (LC 13), Max Uplift

16=-26 (LC 9)

1=1134 (LC 1), 9=1352 (LC 1),

16=283 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1570/543, 3-4=-1428/545,

4-5=-1166/497, 5-6=-1340/516,

6-7=-1640/561, 7-9=-1783/562, 9-10=0/31

BOT CHORD 1-16=-400/1239, 15-16=-400/1239, 13-15=-474/1774, 11-13=-474/1774,

9-11=-344/1419

3-15=-225/234, 4-15=-116/464,

5-15=-855/337, 5-13=0/405, 5-11=-663/335,

6-11=-128/576, 7-11=-234/232

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-11-8, Exterior (2) 8-11-8 to 13-2-7, Interior (1) 13-2-7 to 24-11-8, Exterior (2) 24-11-8 to 29-2-7, Interior (1) 29-2-7 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 16 SP No.2 , $\dot{\mbox{Joint 9}}$
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 1, 291 lb uplift at joint 9 and 26 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



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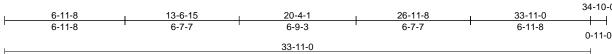


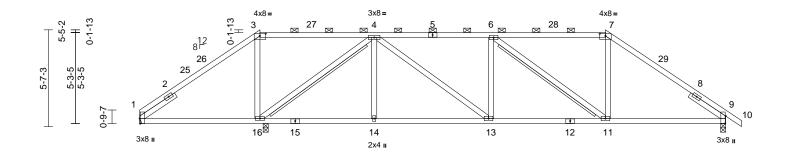


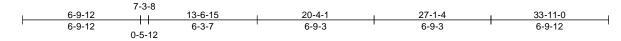
Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:49 ID:YPiMuT3YyuRr?gcx0V5SwDzWMw0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Scale = 1:66.7

Plate Offsets (X, Y): [1:0-3-8,Edge], [3:0-4-0,0-1-9], [7:0-4-0,0-1-9], [9:0-5-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.08	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.11	11-13	>999	240	Weight: 179 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-2 oc purlins, except

2-0-0 oc purlins (4-3-6 max.): 3-7. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 4-16,

6-11

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 9=0-3-8, 16=0-3-8 Max Horiz 1=-166 (LC 10)

Max Uplift 1=-382 (LC 12), 9=-281 (LC 13),

16=-487 (LC 8)

Max Grav 1=479 (LC 19), 9=1144 (LC 1),

16=1431 (LC 24)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-533/545, 3-4=-524/536, 4-6=-1548/657,

6-7=-1139/493, 7-9=-1458/507, 9-10=0/31

BOT CHORD 1-16=-414/469, 14-16=-407/1177 13-14=-407/1177, 11-13=-436/1548

9-11=-272/1150

WEBS 3-16=-397/232, 7-11=-70/459, 4-14=0/256,

4-16=-1452/583, 4-13=-219/536, 6-13=-178/215, 6-11=-584/315

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-11-8, Exterior (2) 6-11-8 to 9-11-8, Interior (1) 9-11-8 to 26-11-8, Exterior (2) 26-11-8 to 29-11-8, Interior (1) 29-11-8 to 34-10-0 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 16 SP No.2 , Joint 9 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 382 lb uplift at joint 1, 487 lb uplift at joint 16 and 281 lb uplift at joint 9.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



March 12,2025

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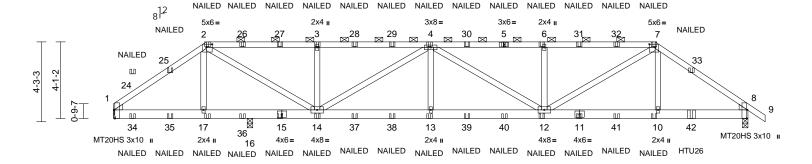


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	A16	Hip Girder	1	2	Job Reference (optional)	171926208

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4-9-12	7-3-8	10-10-10	16-11-8	23-0-6	29-1-4	33-11-0
4-9-12	2-5-12	3-7-2	6-0-14	6-0-14	6-0-14	4-9-12

Scale = 1:61.6

Plate Offsets (X, Y): [1:0-5-8,Edge], [2:0-3-12,0-2-0], [7:0-3-12,0-2-0], [8:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.11	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.22	13-14	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	13-14	>999	240	Weight: 401 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS WEDGE Left: 2x4 SP No 2 Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 2-7.

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

bracing.

REACTIONS (size) 1= Mechanical, 8=0-3-8, 16=0-3-8

Max Horiz 1=-125 (LC 6)

Max Uplift 1=-476 (LC 8), 8=-1011 (LC 4), 16=-932 (LC 5)

Max Grav 1=1059 (LC 1), 8=1931 (LC 1),

16=1662 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1084/536, 2-3=-2397/1432,

3-4=-2397/1432, 4-6=-3709/2194

6-7=-3709/2194, 7-8=-2742/1542, 8-9=0/31

BOT CHORD 1-17=-468/846, 16-17=-489/876. 14-16=-489/876, 13-14=-2271/3963

12-13=-2271/3963 10-12=-1209/2233

8-10=-1211/2245

WFBS 2-17=-800/567, 7-10=-136/356,

4-13=-278/679, 4-12=-207/139,

6-12=-398/342, 7-12=-1114/1844,

3-14=-392/339, 2-14=-1183/1940,

4-14=-1760/1025

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 OC.

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

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies,

- except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. Bearings are assumed to be: , Joint 16 SP No.2 , Joint 8 SP No.2
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint 1, 1011 lb uplift at joint 8 and 932 lb uplift at joint 16.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 13) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent at 30-10-12 from the left end to connect truss(es) to back face of bottom
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-7=-60, 7-9=-60, 18-21=-20 Concentrated Loads (lb)

Vert: 5=-3 (B), 15=-110 (B), 17=-110 (B), 10=-110 (B), 11=-110 (B), 4=-3 (B), 13=-110 (B), 6=-3 (B), 7=-3 (B), 12=-110 (B), 14=-110 (B), 3=-3 (B), 2=-3 (B), 24=-58 (B), 26=-3 (B), 27=-3 (B), 28=-3 (B), 29=-3 (B), 30=-3 (B), 31=-3 (B), 32=-3 (B), 34=-53 (B), 35=-112 (B), 36=-110 (B), 37=-110 (B), 38=-110 (B), 39=-110 (B), 40=-110 (B), 41=-110 (B), 42=-131



March 12,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	B01	Common Supported Gable	1	1	Job Reference (optional)	171926209

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:50 ID:cip6yFaalaoQmrty?MwlorzWiE2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





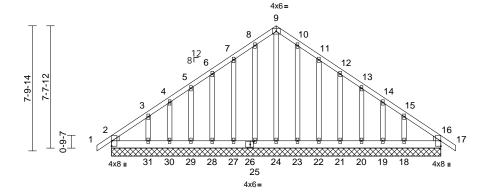


Plate Offsets (X, Y): [2:Edge,0-0-6], [16:Edge,0-0-6], [26:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 168 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3
	Right: 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

2=20-7-0, 16=20-7-0, 18=20-7-0, 19=20-7-0, 20=20-7-0, 21=20-7-0, 22=20-7-0, 23=20-7-0, 24=20-7-0, 25=20-7-0, 27=20-7-0, 28=20-7-0, 29=20-7-0, 30=20-7-0, 31=20-7-0

Max Horiz 2=-249 (LC 10)

Max Uplift 2=-61 (LC 8), 16=-20 (LC 9),

18=-166 (LC 13), 19=-30 (LC 13), 20=-78 (LC 13), 21=-65 (LC 13), 22=-78 (LC 13), 23=-48 (LC 13), 25=-53 (LC 12), 27=-76 (LC 12), 28=-65 (LC 12), 29=-79 (LC 12), 30=-25 (LC 12), 31=-177 (LC 12)

Max Grav

2=190 (LC 20), 16=159 (LC 1), 18=208 (LC 20), 19=88 (LC 1) 20=128 (LC 20), 21=118 (LC 20), 22=123 (LC 20), 23=120 (LC 20), 24=168 (LC 13), 25=125 (LC 19), 27=121 (LC 19), 28=118 (LC 19), 29=130 (LC 19), 30=88 (LC 1),

31=220 (LC 19)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-205/161, 3-4=-143/126 4-5=-124/111, 5-6=-110/112, 6-7=-111/144,

7-8=-159/179, 8-9=-193/213, 9-10=-193/213, 10-11=-159/173, 11-12=-111/116, 12-13=-68/72, 13-14=-72/55, 14-15=-88/66,

20-7-0

15-16=-163/104, 16-17=0/31

BOT CHORD 2-31=-168/203, 30-31=-123/203,

29-30=-123/203, 28-29=-123/203, 27-28=-123/203, 25-27=-123/203,

24-25=-123/203. 23-24=-123/203. 22-23=-123/203, 21-22=-123/203, 20-21=-123/203, 19-20=-123/203,

18-19=-123/203. 16-18=-123/203 9-24=-162/108, 8-25=-98/69, 7-27=-113/92

6-28=-105/84, 5-29=-107/86, 4-30=-94/73, 3-31=-146/119, 10-23=-93/64, 11-22=-113/93, 12-21=-104/83, 13-20=-108/86, 14-19=-94/74, 15-18=-147/117

NOTES

WFBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-3-8, Exterior (2) 2-3-8 to 10-3-8, Corner (3) 10-3-8 to 13-3-8, Exterior (2) 13-3-8 to 21-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2, 20 lb uplift at joint 16, 53 lb uplift at joint 25, 76 lb uplift at joint 27, 65 lb uplift at joint 28, 79 lb uplift at joint 29, 25 lb uplift at joint 30, 177 lb uplift at joint 31, 48 lb uplift at joint 23, 78 lb uplift at joint 22, 65 lb uplift at joint 21, 78 lb uplift at joint 20, 30 lb uplift at joint 19, 166 lb uplift at joint 18, 61 lb uplift at joint 2 and 20 lb uplift at joint 16

LOAD CASE(S) Standard



March 12,2025

FORCES

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

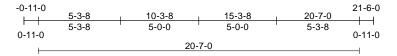
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

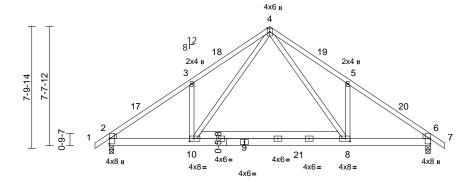


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	B02	Common	2	1	Job Reference (optional)	171926210

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:50 ID:T7QUyYbmqibvYOAOlszl0mzWiFJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





8-8-0 15-3-8 20-7-0 5-3-8 3-4-8 6-7-8 5-3-8

Scale = 1:73.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.06	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.11	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	8-10	>999	240	Weight: 148 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS Left: 2x4 SP No 3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-10 oc purlins.

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

bracing

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

Max Horiz 2=-249 (LC 10)

Max Uplift 2=-233 (LC 12), 6=-233 (LC 13)

Max Grav 2=878 (LC 1), 6=878 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1112/280, 3-4=-1279/491,

4-5=-1278/490, 5-6=-1110/280, 6-7=0/31

BOT CHORD 2-10=-256/1020. 8-10=-78/635. 6-8=-115/862

WEBS 3-10=-404/343, 5-8=-404/343,

4-10=-321/680, 4-8=-320/679

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-3-8, Exterior (2) 10-3-8 to 13-3-8, Interior (1) 13-3-8 to 21-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2 and 233 lb uplift at joint 6.

LOAD CASE(S) Standard



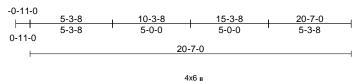
March 12,2025

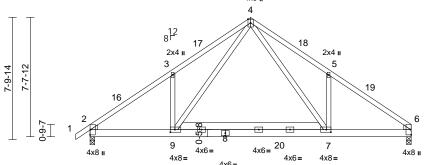


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	B03	Common	4	1	Job Reference (optional)	171926211

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:51 ID:7igS1Txy?cFoXsuyyR_ZhtzWiEs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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5-3-8	8-8-0	15-3-8	20-7-0
5-3-8	3-4-8	6-7-8	5-3-8

Plate Offsets (X, Y): [2:Edge,0-0-6], [6:Edge,0-0-6], [7:0-3-8,0-2-0], [9:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.06	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.11	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	7-9	>999	240	Weight: 146 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS Left: 2x4 SP No 3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-10 oc purlins.

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

bracing

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

Max Horiz 2=242 (LC 9)

Max Uplift 2=-234 (LC 12), 6=-203 (LC 13)

Max Grav 2=880 (LC 1), 6=822 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/31, 2-3=-1114/281, 3-4=-1281/492,

4-5=-1278/494, 5-6=-1118/294

BOT CHORD 2-9=-270/1011, 7-9=-92/626, 6-7=-142/863 WEBS 3-9=-404/343, 5-7=-404/344, 4-9=-320/679,

4-7=-324/687

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-3-8, Exterior (2) 10-3-8 to 13-3-8, Interior (1) 13-3-8 to 20-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 2 and 203 lb uplift at joint 6.

LOAD CASE(S) Standard



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

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Job Truss Truss Type Qty Ply JSJ, Belford Prime A 171926212 4619273 B04 Common Girder 2 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:51 ID:7igS1Txy?cFoXsuyyR_ZhtzWiEs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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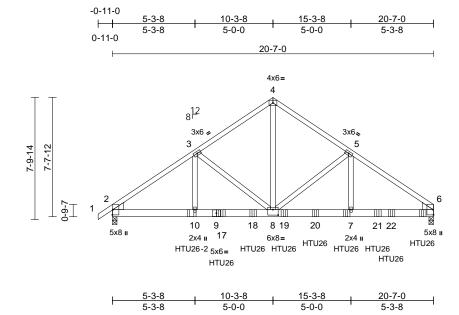


Plate Offsets (X, Y): [2:Edge,0-0-6], [6:Edge,0-0-6], [8:0-4-0,0-4-4]

-			-				-					-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.16	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	8-10	>999	240	Weight: 258 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.2 WEBS Left: 2x6 SP No 2 WEDGE Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-9 oc purlins.

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

bracing

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

Max Horiz 2=242 (LC 7)

Max Uplift 2=-1379 (LC 8), 6=-1551 (LC 9)

Max Grav 2=3021 (LC 1), 6=3474 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/31, 2-3=-4539/2130, 3-4=-3354/1641,

4-5=-3376/1643 5-6=-4121/2033

BOT CHORD 2-10=-1802/3766, 8-10=-1802/3766 7-8=-1585/3356, 6-7=-1585/3356

WEBS 4-8=-1638/3335, 5-8=-897/669,

5-7=-450/698. 3-8=-1271/761.

3-10=-582/1175

NOTES

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

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

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

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

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1379 lb uplift at joint 2 and 1551 lb uplift at joint 6.
- Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 5-1-0 from the left end to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie HTU26 (10-16d Girder, 20-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 7-0-4 from the left end to 19-10-12 to connect truss(es) to back face of
- 11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent at 9-0-4 from the left end to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-6=-60, 11-14=-20

Concentrated Loads (lb)

Vert: 7=-446 (B), 10=-1039 (B), 16=-898 (B), 17=-270 (B), 18=-1114 (B), 19=-483 (B), 20=-525 (B), 21=-9 (B), 22=-9 (B)



March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	C01	Roof Special Girder	1	3	Job Reference (optional)	171926213

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:51 ID:X71qizmjMZe16V1oj149WazWhVJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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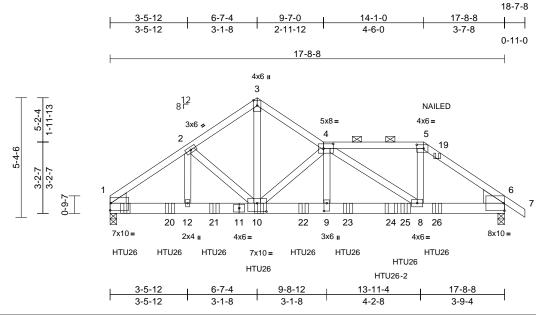


Plate Offsets (X, Y): [1:Edge,0-3-14], [4:0-5-4,0-2-8], [5:0-3-12,0-2-0], [6:Edge,0-4-1], [9:0-4-4,0-1-8], [10:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.10	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.20	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.13	8-9	>999	240	Weight: 342 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* 11-6:2x6 SP 2400F BOT CHORD

2 0F or 2x6 SP DSS 2x4 SP No 2

WFBS WEDGE Left: 2x6 SP No.2

Right: 2x8 SP 2400F 2.0E or DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=-160 (LC 4)

Max Uplift 1=-1865 (LC 8), 6=-2006 (LC 9) Max Grav 1=6945 (LC 1), 6=5450 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-8464/2338, 2-3=-7267/2126, TOP CHORD

3-4=-7250/2101, 4-5=-7023/2645,

5-6=-8335/3070 6-7=0/31 **BOT CHORD** 1-12=-1925/6937, 10-12=-1925/6935,

9-10=-3284/10917, 8-9=-3331/11077,

6-8=-2408/6790

2-12=-314/1442, 2-10=-1210/391,

3-10=-2211/7694, 4-10=-6716/2397,

4-9=-915/3111, 4-8=-4835/1033,

5-8=-1618/4521

NOTES

WFBS

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 Bottom chords connected as follows: 2x6 - 3 rows

staggered at 0-5-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP No.2, Joint 6 SP 2400F 2.0E or DSS
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1865 lb uplift at joint 1 and 2006 lb uplift at joint 6.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 1-5-0 oc max. starting at 13-3-4 from the left end to 14-8-4 to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-4 from the left end to 10-8-4 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 12-7-8 from the left end to connect truss(es) to back face of bottom chord.

- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-7=-60, 13-16=-20 Concentrated Loads (lb)

Vert: 10=-1337 (B), 15=-1333 (B), 20=-1336 (B), 21=-1333 (B), 22=-1337 (B), 23=-1337 (B), 24=-2289 (B), 25=-421 (F), 26=-201 (F)



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

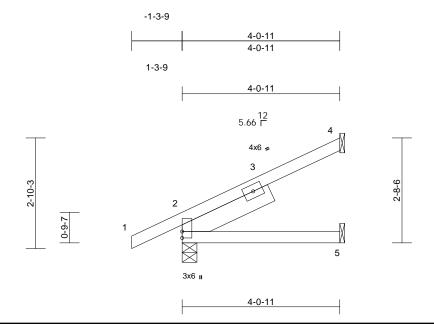
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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	CJ1	Diagonal Hip Girder	4	1	Job Reference (optional)	171926214

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:51 $ID:mbZ8NIj_ktq5iTtxejEFBnzWiLc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:29.7

Plate Offsets (X	, Y):	[2:Edge,0-0-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 2-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-11 oc purlins.

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

bracing.

REACTIONS (size) 2=0-4-9, 4= Mechanical, 5=

Mechanical Max Horiz 2=139 (LC 12)

Max Uplift 2=-107 (LC 12), 4=-81 (LC 12),

5=-1 (LC 12)

Max Grav 2=144 (LC 1), 4=67 (LC 1), 5=55

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/33, 2-4=-122/103

BOT CHORD 2-5=-130/37

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 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 81 lb uplift at joint 4, 107 lb uplift at joint 2 and 1 lb uplift at joint 5.

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-60

Trapezoidal Loads (lb/ft)

Vert: 2=0 (F=30, B=30)-to-7=-11 (F=25, B=25), 7=-11 (F=25, B=25)-to-3=-30 (F=15, B=15), 3=-30 (F=15, B=15)-to-4=-61 (F=0, B=0), 6=0 (F=10, B=10)-

to-8=-4 (F=8, B=8), 8=-4 (F=8, B=8)-to-5=-20 (F=0,

B=0)



March 12,2025

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)



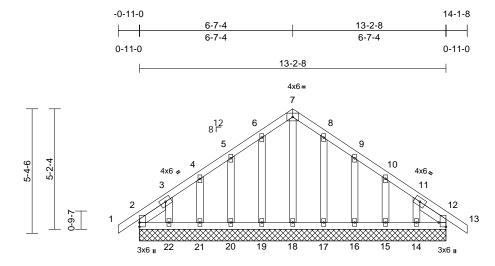
Job Truss Truss Type Qty Ply JSJ Belford Prime A 171926215 4619273 D01 Common Supported Gable Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:6zBYFm6LW3CSWGEZ28UZuazWhOQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Page: 1



Scale = 1:49.6

Plate Offsets (X, Y): [12:Edge,0-3-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 87 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-3, Right 2x4 SP No.2

-- 1-5-3

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size)

15=13-2-8, 16=13-2-8, 17=13-2-8, 18=13-2-8, 19=13-2-8, 20=13-2-8,

21=13-2-8, 22=13-2-8 Max Horiz 2=167 (LC 11)

Max Uplift 2=-66 (LC 8), 12=-20 (LC 9), 14=-105 (LC 13), 15=-64 (LC 13), 16=-74 (LC 13), 17=-59 (LC 13), 19=-62 (LC 12), 20=-73 (LC 12),

2=13-2-8, 12=13-2-8, 14=13-2-8,

21=-63 (LC 12), 22=-119 (LC 12) Max Grav 2=155 (LC 20), 12=128 (LC 1),

14=120 (LC 20), 15=121 (LC 20), 16=121 (LC 20), 17=123 (LC 20), 18=128 (LC 22), 19=126 (LC 19), 20=120 (LC 19), 21=120 (LC 19),

22=135 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/31, 2-3=-40/52, 3-4=-101/96 TOP CHORD

4-5=-86/88, 5-6=-98/121, 6-7=-138/160, 7-8=-138/160, 8-9=-98/112, 9-10=-51/54, 10-11=-51/38, 11-12=-27/37, 12-13=0/31

BOT CHORD 2-22=-76/121, 21-22=-76/121,

20-21=-76/121, 19-20=-76/121, 18-19=-76/121, 17-18=-76/121,

16-17=-76/121, 15-16=-76/121, 14-15=-76/121, 12-14=-76/121

WEBS

7-18=-111/57, 6-19=-101/79, 5-20=-112/88, 4-21=-108/84, 3-22=-128/116, 8-17=-101/75,

13-2-8

9-16=-112/89, 10-15=-108/84,

11-14=-132/105

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 6-7-4, Corner (3) 6-7-4 to 9-7-4, Exterior (2) 9-7-4 to 14-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2, 20 lb uplift at joint 12, 62 lb uplift at joint 19, 73 lb uplift at joint 20, 63 lb uplift at joint 21, 119 lb uplift at joint 22, 59 lb uplift at joint 17, 74 lb uplift at joint 16, 64 lb uplift at joint 15, 105 lb uplift at joint 14, 66 lb uplift at joint 2 and 20 lb uplift at joint 12.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 23.



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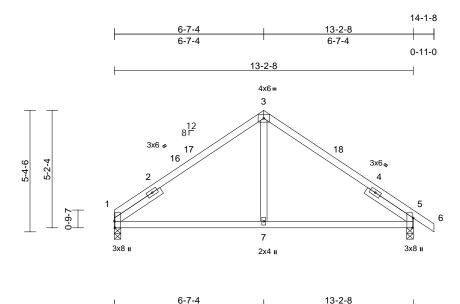


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	D02	Common	2	1	Job Reference (optional)	171926216

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:054XHjES1AclF8?K9iuQ_EzWiDC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-7-4

Page: 1



Scale = 1:50.9

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.06	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	7-10	>999	240	Weight: 60 lb	FT = 20%

LUMBER

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

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

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=-160 (LC 10)

Max Uplift 1=-128 (LC 12), 5=-159 (LC 13)

Max Grav 1=526 (LC 1), 5=585 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-555/207, 3-5=-549/202, 5-6=0/31

BOT CHORD 1-7=-305/430, 5-7=-208/430

WEBS 3-7=0/290

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-7-4, Exterior (2) 6-7-4 to 9-7-4, Interior (1) 9-7-4 to 14-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

All bearings are assumed to be SP No.2.

6-7-4

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 1 and 159 lb uplift at joint 5.

LOAD CASE(S) Standard

March 12,2025

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

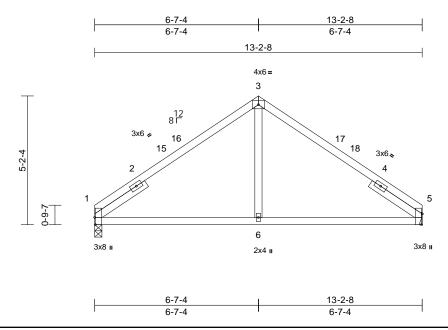
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	JSJ, Belford Prime A	
4619273	D03	Common	2	1	Job Reference (optional)	171926217

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:52 ID:gPo3opNzCs72h_wesD5ETmzWiD0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.06	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	6-9	>999	240	Weight: 58 lb	FT = 20%

LUMBER

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

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

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=147 (LC 9)

Max Uplift 1=-129 (LC 12), 5=-129 (LC 13)

Max Grav 1=528 (LC 1), 5=528 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-555/208, 3-5=-555/208 **BOT CHORD** 1-6=-316/423, 5-6=-232/423

WEBS 3-6=0/290

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-7-4, Exterior (2) 6-7-4 to 9-7-4, Interior (1) 9-7-4 to 13-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 1 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 129 lb uplift at joint 1 and 129 lb uplift at joint 5.

LOAD CASE(S) Standard



March 12,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	E01	Hip Girder	1	2	Job Reference (optional)	171926218

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:52 ID:IBoNVdRDis8PogyomOURdmzWhPI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

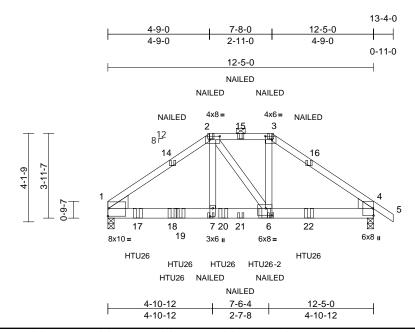


Plate Offsets (X, Y): [1:Edge,0-4-6], [2:0-5-12,0-2-0], [3:0-3-12,0-2-0], [4:Edge,0-0-6], [6:0-3-8,0-4-0], [7:0-4-8,0-1-8]

					-			-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.05	7-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.09	7-13	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	7-13	>999	240	Weight: 145 lb	FT = 20%

LUMBER

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

Left: 2x8 SP 2400F 2.0E or DSS WEDGE

Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-1 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 2-3. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=-120 (LC 6)

Max Uplift 1=-1517 (LC 8), 4=-1413 (LC 9) Max Grav 1=4593 (LC 1), 4=3319 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5170/1914. 2-3=-3994/1782.

3-4=-4800/2049, 4-5=0/31

1-7=-1557/4265, 6-7=-1584/4388, BOT CHORD

4-6=-1616/3896

unless otherwise indicated.

WFBS 2-7=-688/3031, 2-6=-686/141, 3-6=-928/2421

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 5)
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1413 lb uplift at joint 4 and 1517 lb uplift at joint 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-12 from the left end to 5-4-12 to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 7-4-0 from the left end to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 6-4-8 oc max. starting at 3-0-4 from the left end to 9-4-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-11=-20

Concentrated Loads (lb)

Vert: 2=-63 (B), 3=-63 (B), 7=-39 (B), 6=-2328 (F=-2289, B=-39), 15=-63 (B), 17=-1337 (F), 18=-129 (B), 19=-1337 (F), 20=-1337 (F), 21=-39 (B), 22=-129 (B)



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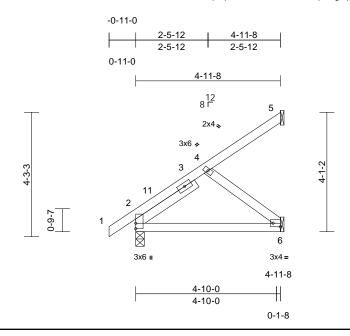
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	JSJ, Belford Prime A	
4619273	JA1	Jack-Open	26	1	Job Reference (optional)	171926219

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53

Page: 1



Scale = 1:39.5

Plate Offsets (X, Y): [6:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	6-9	>999	240	Weight: 27 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-8 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6= Mechanical

Max Horiz 2=197 (LC 12)

Max Uplift 2=-29 (LC 12), 5=-65 (LC 12),

6=-73 (LC 12)

2=258 (LC 1), 5=71 (LC 19), 6=149 Max Grav

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-302/0, 4-5=-65/44

BOT CHORD 2-6=-176/191 4-6=-242/172 WFBS

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-4-4, Interior (1) 2-4-4 to 4-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 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 65 lb uplift at joint 5, 29 lb uplift at joint 2 and 73 lb uplift at joint 6.

LOAD CASE(S) Standard



March 12,2025

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

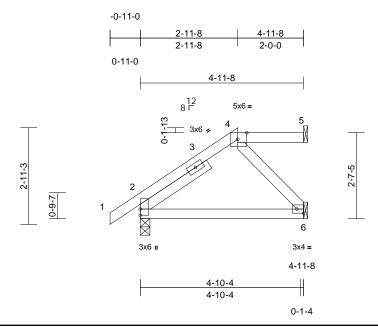
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	JSJ, Belford Prime A	
4619273	JA2	Jack-Open	3	1	Job Reference (optional)	171926220

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:53 ID:Nva?jQ7IPWRddIkDR4JStEzWiJo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35

Plate Offsets (X, Y):	[4:0-3-5,Edge],	[6:Edge,0-1-8]
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-				i e	-							•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.01	6-9	>999	240	Weight: 26 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-8 oc purlins, except 2-0-0 oc purlins: 4-5.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6= Mechanical

Max Horiz 2=125 (LC 12)

Max Uplift 2=-65 (LC 12), 5=-39 (LC 8), 6=-42

(IC 12)

2=258 (LC 1), 5=58 (LC 1), 6=132 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-319/66, 4-5=-1/2

BOT CHORD 2-6=-140/93 WFBS 4-6=-144/126

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 2-11-8, Exterior (2) 2-11-8 to 4-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 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 39 lb uplift at joint 5, 65 lb uplift at joint 2 and 42 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

March 12,2025

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

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



Ply Qty Job Truss Truss Type JSJ Belford Prime A 171926221 4619273 JA3 Jack-Open 3 Job Reference (optional)

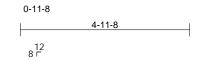
Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

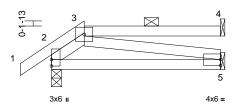
Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:Oj9HQskkPBsOE781wHkPS_zWiJ?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

0-11-8







4-11-8

5x6 =



Scale = 1:33.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.01	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.03	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	5-8	>999	240	Weight: 25 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 1-2-13 SLIDER

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

4-11-8 oc purlins, except

2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical

Max Horiz 2=53 (LC 12) Max Uplift 2=-61 (LC 12), 4=-79 (LC 8)

2=257 (LC 1), 4=118 (LC 1), 5=107 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/31, 2-3=-237/137, 3-4=-3/1 TOP CHORD

BOT CHORD 2-5=-108/163 WFBS 3-5=-167/109

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 2 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 79 lb uplift at joint 4 and 61 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 12,2025

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

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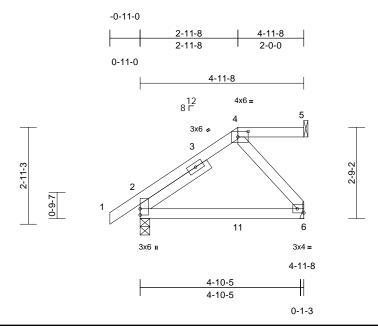


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	JA4	Jack-Open Girder	1	1	Job Reference (optional)	171926222

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:53 ID:1Zxf4albZJfsmCftdyYCJhzWilH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Plate Offsets (X, Y):	[4:0-3-12,0-2-0],	[6:Edge,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.02	6-9	>999	240	Weight: 26 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except

2-0-0 oc purlins: 4-5.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6=

Mechanical Max Horiz 2=132 (LC 8)

2=-100 (LC 8), 5=-39 (LC 4), Max Uplift

6=-102 (LC 8)

2=274 (LC 15), 5=58 (LC 1), 6=170 Max Grav

(LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD **BOT CHORD**

1-2=0/31, 2-4=-324/126, 4-5=0/0 2-6=-132/93

WFBS 4-6=-147/132

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections. 7)
- Refer to girder(s) for truss to truss connections. 8)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5, 100 lb uplift at joint 2 and 102 lb uplift at joint 6.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 71 lb up at 2-11-8 on top chord, and 43 lb down and 40 lb up at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-5=-60, 6-7=-20

Concentrated Loads (lb)

Vert: 4=-15 (B), 11=-17 (B)



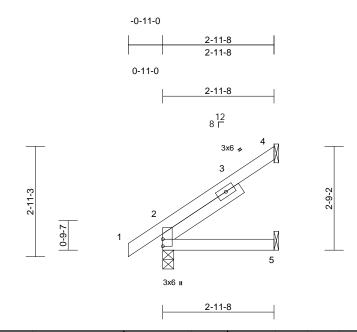
March 12,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	JA5	Jack-Open	4	1		71926223

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:53 ID:7quS_H_nYebzLrY9xKdP4PzWiLG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-8 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical
Max Horiz 2=128 (LC 12)

Max Uplift 2=-24 (LC 12), 4=-84 (LC 12), 5=-3

(LC 12)

Max Grav 2=180 (LC 1), 4=91 (LC 19), 5=50

(LC 3)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-169/66

BOT CHORD 2-5=-108/89

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone
 and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to
 2-10-12 zone; cantilever left and right exposed; end
 vertical left and right exposed; C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 2 SP No.2 .
- 5) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4, 24 lb uplift at joint 2 and 3 lb uplift at joint 5.

LOAD CASE(S) Standard

SEAL 036322

March 12,2025

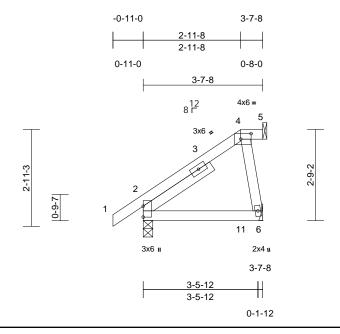
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NGINEERING BY

Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	JA6	Jack-Open Girder	1	1	Job Reference (optional)	171926224

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:53 ID:peTYuyoxgDyvofsx4mJ20YzWiHd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.9

Plate Offsets (X, Y): [4:0-3-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.01	6-9	>999	240	Weight: 21 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-8 oc purlins, except 2-0-0 oc purlins: 4-5.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6= Mechanical

Max Horiz 2=132 (LC 8)

Max Uplift 2=-65 (LC 8), 5=-12 (LC 4), 6=-227

(IC8)

2=222 (LC 15), 5=18 (LC 1), 6=277 Max Grav

(LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-169/85, 4-5=0/0

BOT CHORD 2-6=-112/46 WFBS 4-6=-214/210

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections. 7)
- Refer to girder(s) for truss to truss connections. 8)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 5, 65 lb uplift at joint 2 and 227 lb uplift at joint 6.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 80 lb up at 2-11-8 on top chord, and 52 lb down and 34 lb up at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-5=-60, 6-7=-20 Concentrated Loads (lb)

Vert: 4=-95 (F), 11=-27 (F)



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

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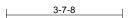
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

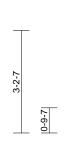


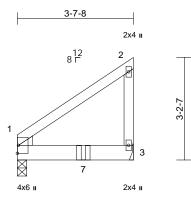
Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	JA7	Jack-Closed Girder	1	1	Job Reference (optional)	171926225

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HTU26 3-7-8

Scale = 1:36

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	3-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.03	3-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.02	3-6	>999	240	Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=121 (LC 8) Max Uplift 1=-53 (LC 8), 3=-186 (LC 8)

Max Grav 1=346 (LC 1), 3=441 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-156/53, 2-3=-111/87

BOT CHORD 1-3=-105/72

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 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 186 lb uplift at joint 3 and 53 lb uplift at joint 1.

- 8) Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 10) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-2=-60, 3-4=-20 Concentrated Loads (lb)

Vert: 7=-508 (B)

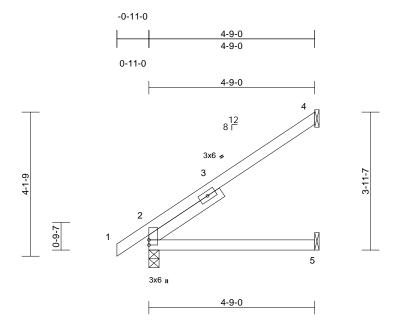
March 12,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	JA8	Jack-Open	3	1		171926226

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:54 ID:IrAa03RACVdOfoQ7hPmUfjzWiGo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.05	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=190 (LC 12)

Max Uplift 2=-27 (LC 12), 4=-129 (LC 12),

5=-5 (LC 12)

2=248 (LC 1), 4=146 (LC 19), 5=85 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-247/108

BOT CHORD 2-5=-247/214

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 4-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 4, 27 lb uplift at joint 2 and 5 lb uplift at joint 5.

LOAD CASE(S) Standard



March 12,2025

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

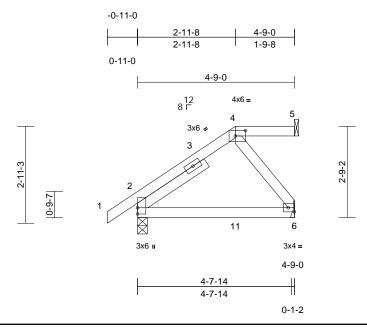
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	JA9	Jack-Open Girder	2	1	Job Reference (optional)	171926227

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Scale = 1:34.9

Plate Offsets (X, Y):	[4:0-3-12,0-2-0],	[6:Edge,0-1-8]
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-				l .								•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.23	Vert(CT)	-0.03	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.02	6-9	>999	240	Weight: 25 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-0 oc purlins, except 2-0-0 oc purlins: 4-5.

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

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical, 6=

Mechanical Max Horiz 2=132 (LC 8)

Max Uplift 2=-95 (LC 8), 5=-35 (LC 4), 6=-108

(IC8)

2=265 (LC 15), 5=52 (LC 1), 6=172 Max Grav

(LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/31, 2-4=-295/123, 4-5=0/0

BOT CHORD 2-6=-128/85 WFBS 4-6=-144/130

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections. 7)
- Refer to girder(s) for truss to truss connections. 8)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5, 95 lb uplift at joint 2 and 108 lb uplift at joint 6.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 71 lb up at 2-11-8 on top chord, and 43 lb down and 40 lb up at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-5=-60, 6-7=-20

Concentrated Loads (lb)

Vert: 4=-15 (B), 11=-17 (B)



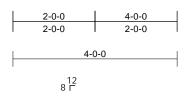
March 12,2025



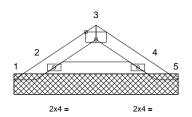
Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	PB01	Piggyback	7	1	Job Reference (optional)	171926228

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:54 ID:m2WHE7JfkQYvdEGOfadHoczWiM8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



3x6 =



4-0-0 0-9-5 3-2-11 0-9-5 2-5-6

0-9-5

Scale = 1:28.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=-39 (LC 8)

Max Uplift 1=-29 (LC 10), 2=-48 (LC 12), 4=-37 (LC 13), 5=-14 (LC 3)

Max Grav 1=20 (LC 9), 2=172 (LC 19), 4=149

(LC 1), 5=1 (LC 12)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-43/61, 2-3=-63/37, 3-4=-63/37, 4-5=0/28

BOT CHORD 2-4=-7/53

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2, 37 lb uplift at joint 4, 29 lb uplift at joint 1, 14 lb uplift at joint 5, 48 lb uplift at joint 2 and 37 lb uplift at joint 4.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

March 12,2025

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

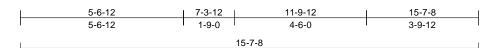
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

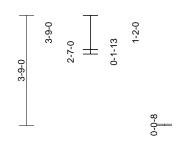


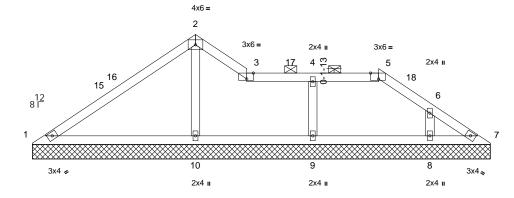
Job	Truss	S Truss Type Qty Ply JSJ, Belford Prime A		JSJ, Belford Prime A		
4619273	V01	Valley	1	1	Job Reference (optional)	171926229

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:54 ID:EzYEtf6cVWXBin2KjDKX9EzWiMO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







15-7-8 Scale = 1:39.3

Plate Offsets (X, Y): [3:0-2-11,Edge], [5:0-3-5,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 3-5.

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

REACTIONS (size)

1=15-7-8, 7=15-7-8, 8=15-7-8,

9=15-7-8, 10=15-7-8

Max Horiz 1=-119 (LC 8)

Max Uplift 1=-34 (LC 12), 8=-138 (LC 13),

9=-144 (LC 13), 10=-147 (LC 12) 1=191 (LC 23), 7=40 (LC 13), Max Grav

8=296 (LC 1), 9=331 (LC 24),

10=454 (I C 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-253/124, 2-3=-10/86, 3-4=-9/24,

4-5=-9/24, 5-6=-47/22, 6-7=-134/125 **BOT CHORD**

1-10=-105/265, 9-10=-105/129, 8-9=-105/129, 7-8=-105/129

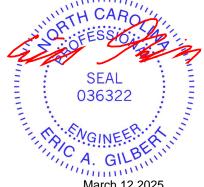
WEBS 2-10=-294/156, 4-9=-261/195, 6-8=-245/194

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-7-8, Exterior (2) 5-7-8 to 7-4-8, Interior (1) 7-4-8 to 11-10-8, Exterior (2) 11-10-8 to 14-9-7, Interior (1) 14-9-7 to 15-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing. 5)
- Gable studs spaced at 4-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 147 lb uplift at joint 10, 144 lb uplift at joint 9 and 138 lb uplift at joint 8.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



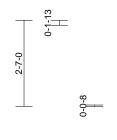
March 12,2025

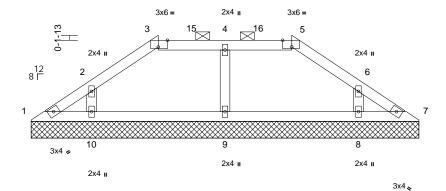
Job	Truss	Truss Type Qty Ply JSJ, Belford Prime A		JSJ, Belford Prime A		
4619273	V02	Valley	1	1	Job Reference (optional)	171926230

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Page: 1







11-7-8

Scale = 1:34.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 40 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=11-7-8, 7=11-7-8, 8=11-7-8,

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

Max Horiz 1=78 (LC 9)

Max Uplift 1=-32 (LC 13), 7=-23 (LC 12),

8=-108 (LC 13), 9=-55 (LC 9),

10=-114 (LC 12)

1=104 (LC 1), 7=104 (LC 1), 8=256 (LC 20), 9=251 (LC 1), 10=264 (LC Max Grav

19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-142/88, 2-3=-188/146, 3-4=-140/144,

4-5=-140/144, 5-6=-188/146, 6-7=-142/74

1-10=-55/124, 9-10=-55/124, 8-9=-55/124,

BOT CHORD 7-8=-55/124

4-9=-169/165, 2-10=-184/156, 6-8=-178/150

WEBS NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-12 to 3-0-12, Exterior (2) 3-0-12 to 3-10-8, Corner (3) 3-10-8 to 6-10-8, Exterior (2) 6-10-8 to 7-10-8, Corner (3) 7-10-8 to 10-9-7, Exterior (2) 10-9-7 to 11-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1, 23 lb uplift at joint 7, 55 lb uplift at joint 9, 114 lb uplift at joint 10 and 108 lb uplift at joint 8.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

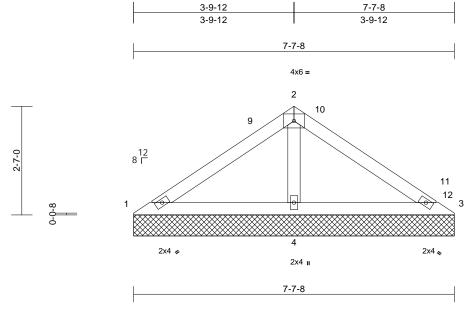
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	JSJ, Belford Prime A	
4619273	V03	Valley	1	1	Job Reference (optional)	171926231

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:55 ID:Axr86WmMbiruhsFNqOPtE0zWiTI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

7-7-8 oc purlins.

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

bracing.

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

1=80 (LC 9) Max Horiz

Max Uplift 1=-8 (LC 12), 3=-12 (LC 8), 4=-137

(LC 12)

1=79 (LC 23), 3=56 (LC 24), 4=497 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/202, 2-3=-73/198 **BOT CHORD**

1-4=-182/116, 3-4=-182/116 2-4=-388/197 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-10-8, Exterior (2) 3-10-8 to 6-9-7, Interior (1) 6-9-7 to 7-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 12 lb uplift at joint 3 and 137 lb uplift at joint 4.

LOAD CASE(S) Standard



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

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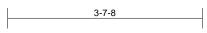


Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	V04	Valley	1	1	Job Reference (optional)	171926232

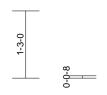
Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:55 ID:72RTzOay75y1NYcURkeM7szWiTX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

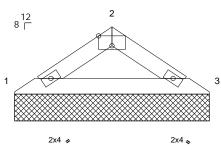
Page: 1





3x6 =





3-7-8

Scale = 1:21.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins.

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

bracing.

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

Max Horiz 1=-36 (LC 8)

Max Uplift 1=-37 (LC 12), 3=-37 (LC 13) Max Grav 1=145 (LC 1), 3=145 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-215/85, 2-3=-215/85 BOT CHORD 1-3=-57/176

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) $Vasd=103mph;\ TCDL=6.0psf;\ BCDL=6.0psf;\ h=25ft;\ Cat.$ II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 37 lb uplift at joint 3.

LOAD CASE(S) Standard

March 12,2025

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

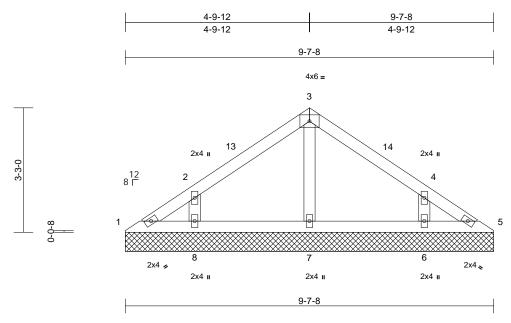
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	V05	Valley	1	1	Job Reference (optional)	171926233

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:55 ID: 6nv2OaNI8tpRrxpDygqNxGzWiTo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=9-7-8, 5=9-7-8, 6=9-7-8, 7=9-7-8,

8=9-7-8

Max Horiz 1=-103 (LC 8)

Max Uplift 1=-22 (LC 8), 5=-3 (LC 12), 6=-142

(LC 13), 8=-145 (LC 12) Max Grav 1=71 (LC 20), 5=53 (LC 1), 6=259

(LC 20), 7=203 (LC 1), 8=262 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-90/88, 2-3=-96/96, 3-4=-96/92, 4-5=-61/48

BOT CHORD 1-8=-33/66, 7-8=-30/59, 6-7=-30/59,

5-6=-30/59 3-7=-140/27, 2-8=-238/187, 4-6=-238/185

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-10-8, Exterior (2) 4-10-8 to 7-10-8, Interior (1) 7-10-8 to 9-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 3-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 3 lb uplift at joint 5, 145 lb uplift at joint 8 and 142 lb uplift at joint 6.

LOAD CASE(S) Standard

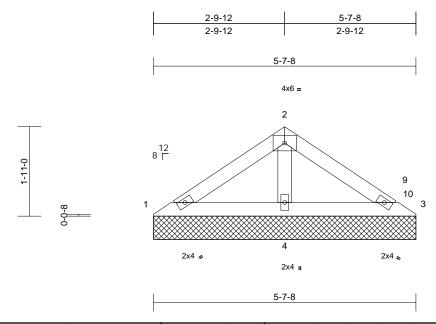




Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	V06	Valley	1	1	Job Reference (optional)	71926234

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:55 ID:ubwVe7gzFZyuLnD1vQnESYzWiTP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-8 oc purlins.

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

bracing.

REACTIONS (size) 1=5-7-8, 3=5-7-8, 4=5-7-8

1=57 (LC 9) Max Horiz

Max Uplift 1=-11 (LC 12), 3=-6 (LC 8), 4=-91

(LC 12)

1=68 (LC 23), 3=46 (LC 24), 4=340 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-65/124, 2-3=-51/118 **BOT CHORD** 1-4=-123/84, 3-4=-123/84

2-4=-231/119 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 6 lb uplift at joint 3 and 91 lb uplift at joint 4.

LOAD CASE(S) Standard

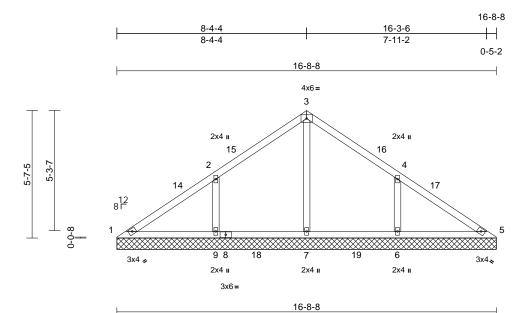




Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	V07	Valley	1	1	Job Reference (optional)	171926235

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:56 ID:bMf6NjocweHmihrhvGFFMezcNXJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	.5	n	7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=16-8-8, 5=16-8-8, 6=16-8-8,

7=16-8-8, 9=16-8-8 Max Horiz 1=-181 (LC 8)

Max Uplift 1=-21 (LC 13), 6=-248 (LC 13),

9=-251 (LC 12)

1=113 (LC 20), 5=103 (LC 24), Max Grav

6=455 (LC 20), 7=459 (LC 19),

9=458 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-149/232, 2-3=-34/175, 3-4=-28/154, 4-5=-120/177

1-9=-172/156, 7-9=-172/147, 6-7=-172/147, 5-6=-172/147

WEBS 3-7=-303/41, 2-9=-356/277, 4-6=-356/276

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 8-5-0, Exterior (2) 8-5-0 to 11-5-0, Interior (1) 11-5-0 to 16-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 251 lb uplift at joint 9 and 248 lb uplift at joint 6.

LOAD CASE(S) Standard



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

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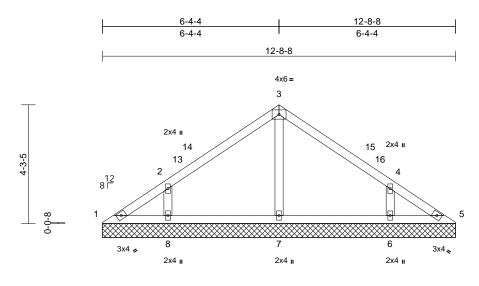
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	JSJ, Belford Prime A	
4619273	V08	Valley	1	1	Job Reference (optional)	171926236

Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:56 ID:U7vcD5s6ztnCBJ9S86KBWUzcNXF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 49 lb	FT = 20%

12-8-8

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

7=12-8-8, 8=12-8-8

Max Horiz 1=-137 (LC 8)

Max Uplift 1=-31 (LC 8), 5=-3 (LC 12), 6=-193

(LC 13), 8=-196 (LC 12) Max Grav 1=94 (LC 20), 5=69 (LC 19), 6=344

(LC 20), 7=272 (LC 1), 8=348 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-127/117, 2-3=-128/131, 3-4=-128/117,

4-5=-90/64 **BOT CHORD** 1-8=-44/95, 7-8=-41/76, 6-7=-41/76,

5-6=-41/76

WEBS 3-7=-187/34, 2-8=-310/248, 4-6=-310/246

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 6-5-0, Exterior (2) 6-5-0 to 9-5-0, Interior (1) 9-5-0 to 12-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1, 3 lb uplift at joint 5, 196 lb uplift at joint 8 and 193 lb uplift at joint 6.

LOAD CASE(S) Standard

March 12,2025

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

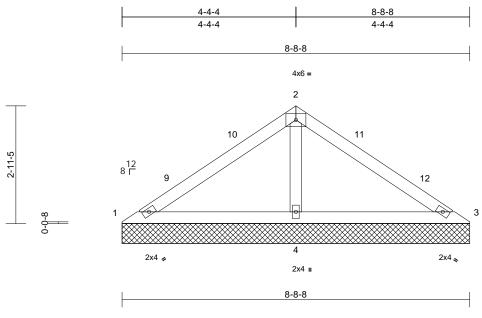
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	JSJ, Belford Prime A	
4619273	V09	Valley	1	1	Job Reference (optional)	171926237

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Mon Mar 10 12:56:56 ID:q5iVGovFoPPVH41QxfwMDXzcNXA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-8-8 oc purlins.

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

bracing.

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

1=-92 (LC 10) Max Horiz

Max Uplift 1=-9 (LC 24), 3=-23 (LC 8), 4=-168

(LC 12)

1=78 (LC 23), 3=78 (LC 24), 4=602 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-98/259, 2-3=-97/257

BOT CHORD 1-4=-246/152, 3-4=-246/152

2-4=-482/233 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-5-0, Exterior (2) 4-5-0 to 7-5-0, Interior (1) 7-5-0 to 8-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 23 lb uplift at joint 3 and 168 lb uplift at joint 4.

LOAD CASE(S) Standard



March 12,2025

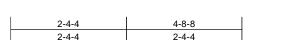
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



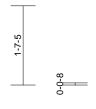
Job	Truss	Truss Type	Qty	Ply	JSJ, Belford Prime A	
4619273	V10	Valley	1	1	I71926 Job Reference (optional)	6238

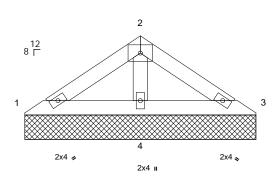
Run: 8.83 S. Feb 18 2025 Print: 8.830 S. Feb 18 2025 MiTek Industries. Inc. Mon Mar 10 12:56:56 ID:jsx05AzlsewwmhLBAV_IONzcNX6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4-8-8

4x6 =





4-8-8

Scale = 1:23.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-8 oc purlins.

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

bracing.

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

Max Horiz 1=-48 (LC 8)

Max Uplift 1=-14 (LC 12), 3=-22 (LC 13),

4=-68 (LC 12)

1=62 (LC 23), 3=62 (LC 24), 4=274 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-59/91, 2-3=-59/86

BOT CHORD 1-4=-95/70, 3-4=-95/70

2-4=-165/80 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 22 lb uplift at joint 3 and 68 lb uplift at joint 4.

LOAD CASE(S) Standard



March 12,2025

Page: 1

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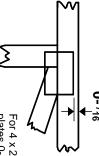


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

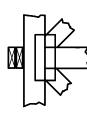
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

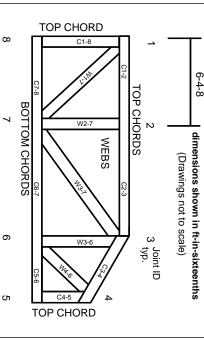
Industry Standards:

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.

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

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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