

Job	Truss	Truss Type	Qty	Ply	
24061913	A1	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 30 12:30:50

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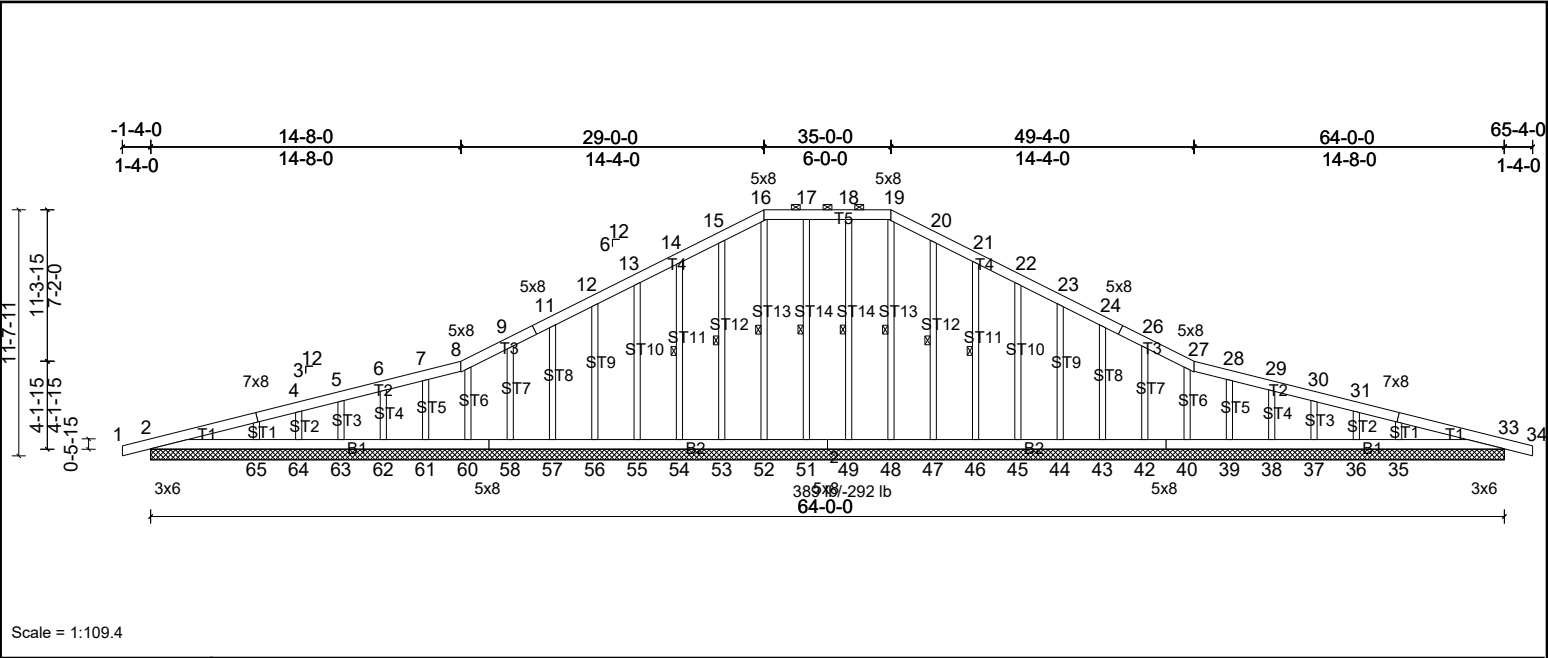


Plate Offsets (X, Y): [3:0-4-0,0-4-8], [8:0-2-8,0-3-7], [16:0-4-0,Edge], [19:0-4-0,Edge], [27:0-2-8,0-3-7], [32:0-4-0,0-4-8]

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	0.15	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	33	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 540 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 16-19.
BOT CHORD	2x6 SP No.2	BOT CHORD	
OTHERS	2x4 SP No.3	WEBS	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS		1 Row at midpt 17-51, 18-49, 16-52, 15-53, 14-54, 19-48, 20-47, 21-46	
All bearings 64-0-0.			
(lb) - Max Horiz	2=-384 (LC 11), 66=-384 (LC 11)		
Max Uplift	All uplift 100 (lb) or less at joint(s) 36, 49, 51, 64 except 2=-248 (LC 6), 33=-242 (LC 7), 35=-290 (LC 11), 37=-137 (LC 11), 38=-123 (LC 11), 39=-116 (LC 7), 40=-131 (LC 11), 42=-173 (LC 11), 43=-149 (LC 11), 44=-151 (LC 11), 45=-152 (LC 11), 46=-165 (LC 11), 47=-119 (LC 11), 53=-130 (LC 10), 54=-162 (LC 10), 55=-152 (LC 10), 56=-151 (LC 10), 57=-150 (LC 10), 58=-170 (LC 10), 60=-106 (LC 11), 61=-116 (LC 6), 62=-124 (LC 10), 63=-137 (LC 10), 65=-292 (LC 10), 66=-248 (LC 6), 70=-242 (LC 7)		
Max Grav	All reactions 250 (lb) or less at joint(s) 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 60, 61, 62, 63, 64 except 2=262 (LC 21), 33=262 (LC 22), 35=389 (LC 1), 65=389 (LC 1), 66=262 (LC 21), 70=262 (LC 22)		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES	
TOP CHORD	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-416/183, 3-4=-340/190, 4-5=-310/204, 5-6=-267/215, 8-9=-180/293, 9-10=-110/341, 10-11=-94/351, 11-12=-110/400, 12-73=-144/445, 13-73=-128/451, 13-14=-178/575, 14-15=-215/740, 15-16=-244/876, 16-17=-229/861, 17-18=-229/861, 18-19=-229/861, 19-20=-244/876, 20-21=-215/740, 21-22=-178/575, 22-74=-128/438, 23-74=-144/429, 23-24=-110/339
BOT CHORD	2-65=-90/362, 64-65=-86/355, 63-64=-86/355, 62-63=-86/355, 61-62=-86/355, 60-61=-86/355, 59-60=-96/372, 58-59=-96/372, 57-58=-96/372, 56-57=-96/372, 55-56=-96/372, 54-55=-96/372, 53-54=-96/372, 52-53=-96/372, 51-52=-96/372, 50-51=-96/372, 49-50=-96/372, 48-49=-96/372, 47-48=-96/372, 46-47=-96/372, 45-46=-96/372, 44-45=-96/372, 43-44=-96/372, 42-43=-96/372, 41-42=-96/372, 40-41=-96/372, 39-40=-86/355, 38-39=-86/355, 37-38=-86/355, 36-37=-86/355, 35-36=-86/355, 33-35=-90/362
WEBS	15-53=-124/276, 14-54=-122/349, 13-55=-120/281, 3-65=-247/440, 20-47=-124/276, 21-46=-122/349, 22-45=-120/281, 32-35=-247/440

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 1-4-0 to 5-0-4, Exterior (2) 5-0-4 to 22-7-3, Corner (3) 22-7-3 to 41-4-13, Exterior (2) 41-4-13 to 58-11-3, Corner (3) 58-11-3 to 65-4-0 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.
 - WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A1	Truss	1	1	

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 51, 49, 64, 36 except (jt=lb) 2=248, 53=129, 54=162, 55=151, 56=150, 57=149, 58=170, 60=105, 61=115, 62=124, 63=137, 65=292, 47=119, 46=165, 45=151, 44=150, 43=149, 42=172, 40=130, 39=115, 38=122, 37=137, 35=289, 33=242, 2=248, 33=242.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 33.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) 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

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A2	Truss	16	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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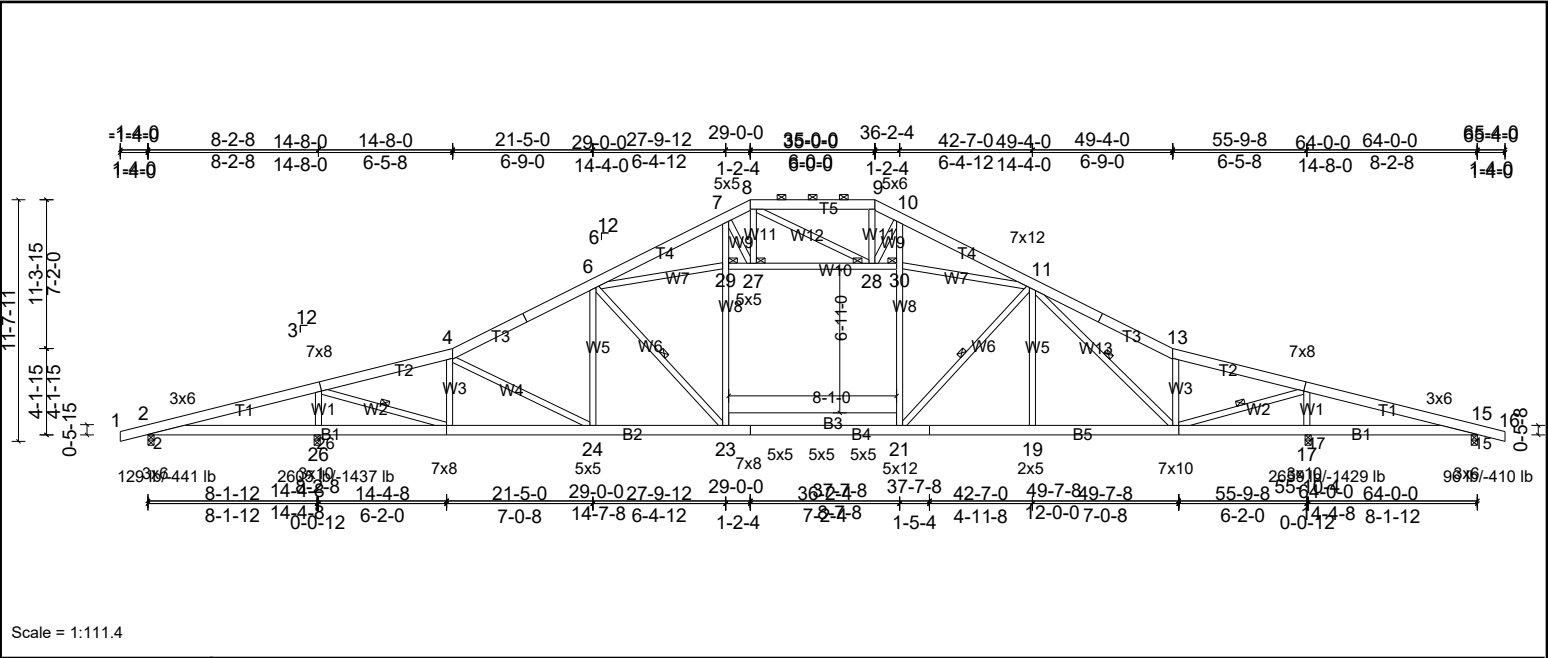


Plate Offsets (X, Y): [2:0-2-4,Edge], [3:0-4-0,0-4-8], [4:0-4-0,0-2-12], [8:0-2-0,0-2-4], [11:0-5-12,0-3-8], [13:0-4-0,0-2-12], [14:0-4-0,0-4-8], [15:0-2-4,Edge], [18:0-4-12,0-4-8], [23:0-2-0,0-2-8], [25:0-3-12,0-4-8], [29:0-4-0,0-1-14], [30:0-4-0,0-1-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.21	19-21	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.29	21-23	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.06	17	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.03	21-23	>999	360	Weight: 529 lb FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD	2x6 SP No.2 *Except* B3:2x8 SP No.1	BOT CHORD	Rigid ceiling directly applied or 5-9-8 oc bracing.
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.2	WEBS	1 Row at midpt 3-25, 14-18, 6-23, 11-21, 11-18
REACTIONS	All bearings 0-3-8.	JOINTS	1 Brace at Jt(s): 27, 28, 29, 30
(lb) - Max Horiz	2=-384 (LC 11)		This truss requires both edges of the bottom chord be sheathed in the room area.
Max Uplift	All uplift 100 (lb) or less at joint(s) except 2=-442 (LC 6), 15=-410 (LC 7), 17=-1429 (LC 11), 26=-1437 (LC 10)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Max Grav	All reactions 250 (lb) or less at joint(s) 2, 15 except 17=2659 (LC 2), 26=2605 (LC 1)		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-37=-677/906, 3-37=-662/962, 3-4=-2423/1708, 4-5=-2867/2187, 5-6=-2805/2208, 6-38=-1721/1470, 7-38=-1640/1500, 7-8=-1376/1417, 8-9=-1243/1246, 9-10=-1394/1399, 10-39=-1699/1468, 11-39=-1781/1437, 11-12=-2636/1978, 12-13=-2698/1957, 13-14=-2431/1638, 14-40=-688/1120, 15-40=-703/1063
BOT CHORD	2-26=-879/668, 25-26=-780/593, 24-25=-1444/2380, 24-41=-1566/2520, 23-41=-1566/2520, 22-23=-1486/2430, 21-22=-1486/2430, 20-21=-1554/2582, 20-42=-1554/2582, 19-42=-1554/2582, 19-43=-1554/2581, 18-43=-1554/2581, 17-18=-928/725, 15-17=-1032/801
WEBS	3-26=-2345/1739, 3-25=-2082/3260, 4-25=-1012/871, 23-29=-260/582, 7-29=-233/489, 21-30=-244/619, 10-30=-223/538, 13-18=-877/730, 14-18=-2149/3425, 14-17=-2405/1781, 6-23=-396/554, 11-21=-391/563, 11-18=-367/272, 11-19=0/340, 6-24=-4/261, 27-29=-1046/816, 27-28=-1188/1045, 28-30=-1034/839, 8-27=-474/533, 9-28=-480/509, 7-27=-596/541, 8-28=-362/374, 10-28=-678/575, 6-29=-1053/822, 11-30=-1043/847

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 5-0-13, Interior (1) 5-0-13 to 22-7-3, Exterior (2) 22-7-3 to 41-4-13, Interior (1) 41-4-13 to 58-11-3, Exterior (2) 58-11-3 to 65-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 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.
 - Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 21-23
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 2, 1437 lb uplift at joint 26, 1429 lb uplift at joint 17 and 410 lb uplift at joint 15.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE**

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A2	Truss	16	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



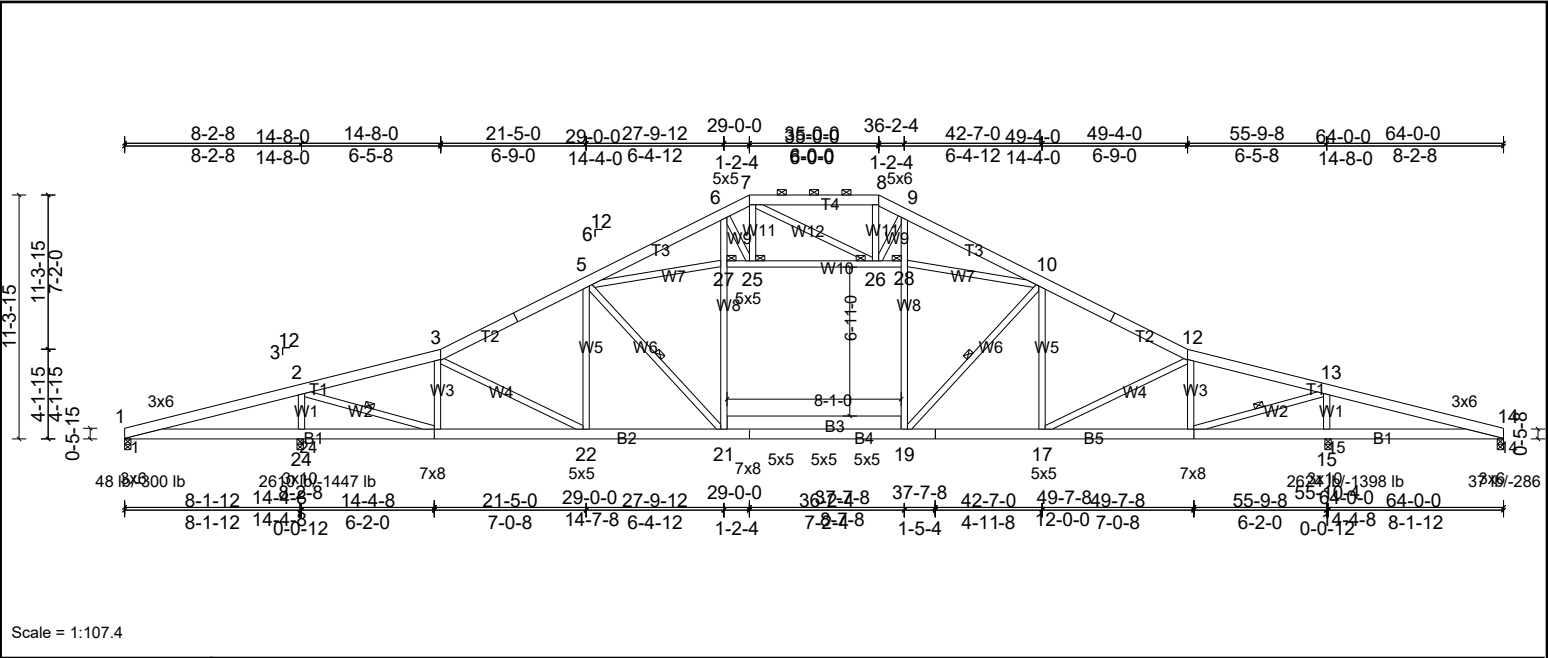
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A3	Truss	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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Scale = 1:107.4

Plate Offsets (X, Y): [1:0-2-12,Edge], [3:0-4-0,0-2-12], [7:0-2-0,0-2-4], [12:0-4-0,0-2-12], [14:0-2-12,Edge], [16:0-3-12,0-4-8], [19:0-2-4,0-2-8], [21:0-2-0,0-2-8], [23:0-3-12,0-4-8], [27:0-4-0,0-1-14], [28:0-4-0,0-1-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.22	17-19	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.29	19-21	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.03	19-21	>999	360	Weight: 520 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x6 SP No.2 *Except* B3:2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-10-1 oc bracing.
WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2	WEBS 1 Row at midpt 2-23, 13-16, 10-19, 5-21
REACTIONS All bearings 0-3-8.	JOINTS 1 Brace at Jt(s): 25, 26, 27, 28
(lb) - Max Horiz 1=-373 (LC 11)	This truss requires both edges of the bottom chord be sheathed in the room area.
Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-301 (LC 6), 14=-286 (LC 7), 15=-1398 (LC 11), 24=-1447 (LC 10)	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Max Grav All reactions 250 (lb) or less at joint(s) 1, 14 except 15=2625 (LC 1), 24=2611 (LC 1)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-35=-660/857, 2-35=-645/914, 2-3=-2412/1693, 3-4=-2842/2185, 4-5=-2780/2206, 5-36=-1726/1466, 6-36=-1644/1496, 6-7=-1374/1416, 7-8=-1216/1254, 8-9=-1360/1400, 9-37=-1647/1477, 10-37=-1729/1447, 10-11=-2775/2201, 11-12=-2837/2180, 12-13=-2392/1675, 13-38=-590/956, 14-38=-605/899
BOT CHORD	1-24=-831/621, 23-24=-831/621, 22-23=-1467/2368, 22-39=-1603/2498, 21-39=-1603/2498, 20-21=-1527/2394, 19-20=-1527/2394, 18-19=-1599/2493, 18-40=-1599/2493, 16-17=-1450/2349, 15-16=-873/659, 14-15=-873/659
WEBS	2-24=-2343/1772, 2-23=-2130/3293, 3-23=-1001/878, 21-27=-255/594, 6-27=-228/507, 19-28=-268/585, 9-28=-249/509, 12-16=-1011/887, 13-16=-2152/3316, 13-15=-2356/1785, 10-19=-400/578, 10-17=-166/262, 5-21=-395/550, 5-22=-4/264, 25-27=-1003/822, 25-26=-1153/1049, 26-28=-1045/839, 7-25=-471/545, 8-26=-464/483, 5-27=-1009/829, 10-28=-1051/846, 6-25=-612/537, 7-26=-358/367, 9-26=-631/569

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 6-4-13, Interior (1) 6-4-13 to 22-7-3, Exterior (2) 22-7-3 to 41-4-13, Interior (1) 41-4-13 to 57-7-3, Exterior (2) 57-7-3 to 64-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 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.
 - Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint 1, 286 lb uplift at joint 14, 1447 lb uplift at joint 24 and 1398 lb uplift at joint 15.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE**

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A3	Truss	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



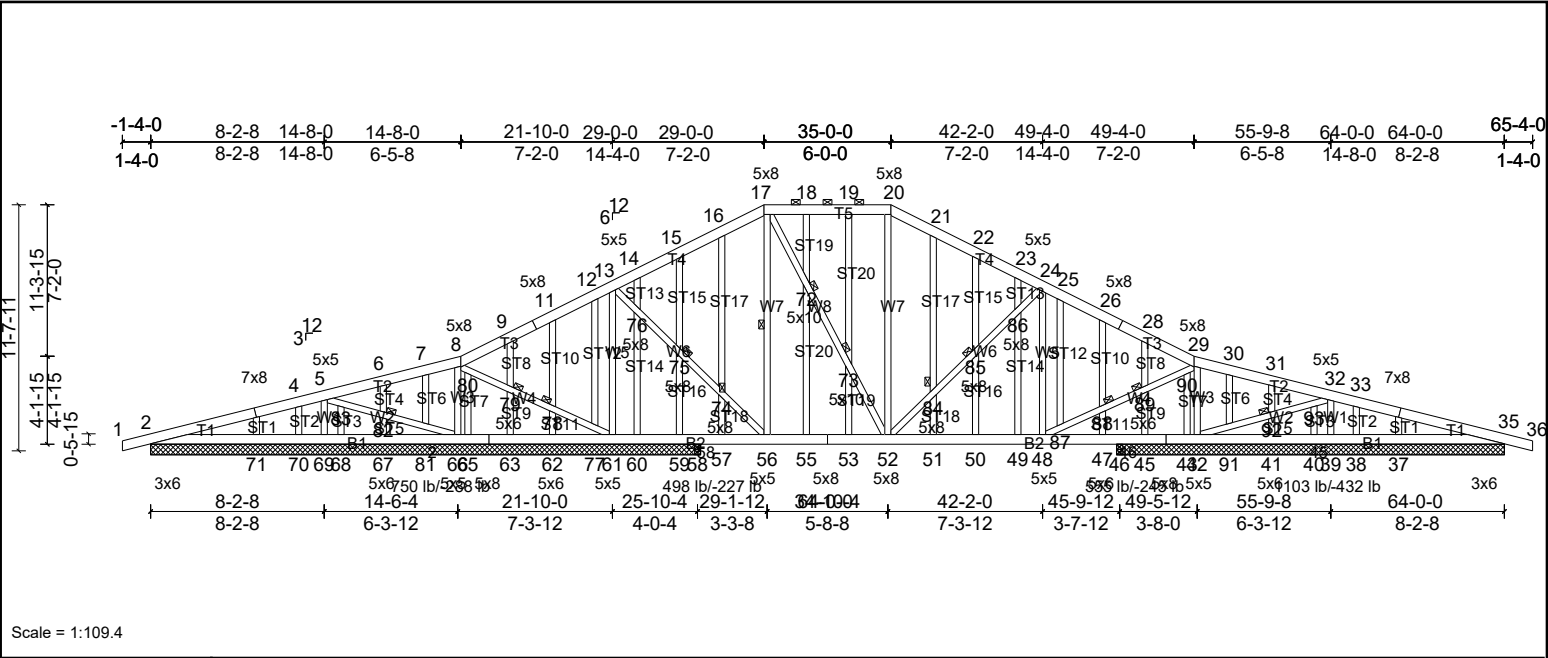
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A4	Truss	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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Scale = 1:109.4

Plate Offsets (X, Y): [3:0-4-0,0-4-8], [8:0-4-0,0-2-12], [17:0-2-0,0-2-0], [29:0-4-0,0-2-12], [34:0-4-0,0-4-8]

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	0.19	Vert(LL)	0.08	50-51	>999	240	
TCDL	18.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.09	50-51	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.02	97	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 655 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 17-20.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 17-56
OTHERS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 72, 73, 74, 75, 78, 79, 82, 84, 85, 88, 89, 92
REACTIONS		<div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>	
All bearings 26-0-0, except 42=18-4-0, 39=18-4-0, 45=18-4-0, 43=18-4-0, 41=18-4-0, 40=18-4-0, 38=18-4-0, 37=18-4-0, 35=18-4-0, 97=18-4-0, 58=0-3-8, 46=0-3-8			
(lb) - Max Horiz	2=-384 (LC 11), 94=-384 (LC 11)		
Max Uplift	All uplift 100 (lb) or less at joint(s) 38, 39, 40, 43, 65, 66, 68, 70 except 2=-274 (LC 6), 35=-266 (LC 7), 37=-287 (LC 11), 41=-227 (LC 7), 42=-433 (LC 11), 45=-160 (LC 1), 46=-245 (LC 11), 58=-228 (LC 10), 59=-159 (LC 22), 60=-129 (LC 10), 61=-216 (LC 10), 62=-193 (LC 10), 63=-149 (LC 10), 67=-222 (LC 6), 69=-107 (LC 10), 71=-289 (LC 10), 94=-274 (LC 6), 97=-266 (LC 7)		
Max Grav	All reactions 250 (lb) or less at joint(s) 38, 39, 40, 43, 45, 59, 63, 65, 66, 68, 69, 70 except 2=327 (LC 21), 35=331 (LC 22), 37=462 (LC 1), 41=374 (LC 1), 42=1104 (LC 1), 46=556 (LC 1), 58=498 (LC 1), 60=307 (LC 1), 61=750 (LC 1), 62=334 (LC 1), 67=341 (LC 21), 71=462 (LC 1), 94=327 (LC 21), 97=331 (LC 22)		
FORCES		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	3-4=-207/259, 4-5=-183/269, 11-12=-111/298, 12-13=-120/322, 13-100=-526/432, 14-100=-490/435, 14-15=-602/526, 15-16=-613/632, 16-17=-664/733, 17-18=-782/834, 18-19=-782/834, 19-20=-782/834, 20-21=-824/842, 21-22=-826/779, 22-23=-862/707, 23-101=-847/670, 24-101=-882/664, 24-25=-854/703, 25-26=-955/717, 26-27=-865/637, 27-28=-926/627, 28-29=-907/556		
BOT CHORD	65-66=-47/319, 64-65=-47/319, 63-64=-47/319, 62-63=-47/319, 61-62=-47/319, 60-61=-119/423, 59-60=-119/423, 58-59=-119/423, 57-58=-119/423, 56-57=-119/423, 55-56=0/618, 54-55=0/618, 53-54=0/618, 52-53=0/618, 51-52=-158/802, 50-51=-158/802, 49-50=-158/802, 48-49=-158/802		
WEBS	13-61=-629/273, 13-76=-231/700, 75-76=-227/693, 74-75=-229/692, 56-74=-234/709, 17-56=-293/100, 17-72=-296/475, 72-73=-309/499, 52-73=-312/498, 52-84=-184/333, 84-85=-187/329, 85-86=-168/315, 24-86=-178/328, 48-87=-376/823, 87-88=-355/791, 88-89=-342/761, 89-90=-366/808, 29-90=-373/859, 29-42=-1057/545, 14-76=-257/181, 62-78=-281/222, 6-82=-260/242, 67-82=-278/259, 3-71=-304/261, 47-88=-290/210, 31-92=-274/244, 41-92=-309/263, 34-37=-304/261		

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 4-11-5, Interior (1) 4-11-5 to 22-7-3, Exterior (2) 22-7-3 to 41-4-13, Interior (1) 41-4-13 to 58-11-3, Exterior (2) 58-11-3 to 65-4-0 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.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x5 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	A4	Truss	1	1	

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 66, 39, 65, 68, 70, 43, 40, 38 except (jt=lb) 2=273, 69=107, 61=215, 42=432, 59=158, 60=129, 62=192, 63=149, 67=222, 71=288, 45=160, 41=226, 37=286, 35=265, 58=227, 46=245, 2=273, 35=265.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	B1	Truss	1	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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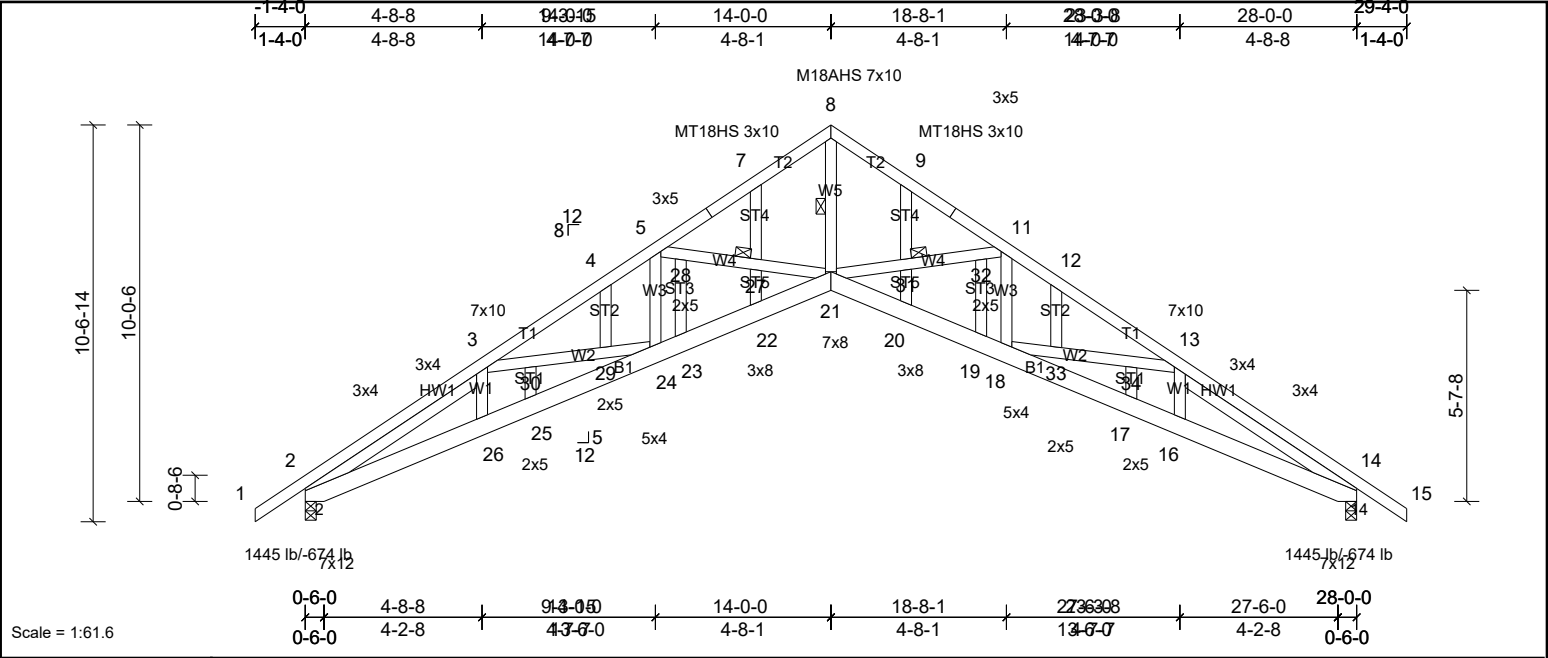


Plate Offsets (X, Y): [2:0-2-11,0-3-8], [14:0-2-11,0-3-8]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.58	21-22	>577	240	MT20	244/190	
TCDL	18.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	0.47	21-22	>716	180	M18AHS	186/179	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	-0.58	14	n/a	n/a	MT18HS	244/190	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 209 lb	FT = 20%	

LUMBER		BRACING	
TOP CHORD	2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-11-6 oc bracing.
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.2	WEBS	1 Row at midpt 8-21
OTHERS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 27, 31
SLIDER	Left 2x4 SP No.3 -- 5-6-3, Right 2x4 SP No.3 -- 5-6-3		
REACTIONS	(lb/size)	2=1445/0-3-8, (min. 0-1-9), 14=1445/0-3-8, (min. 0-1-9)	
	Max Horiz	2=-521 (LC 8)	
	Max Uplift	2=-674 (LC 10), 14=-674 (LC 11)	

FORCES	
TOP CHORD	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD	2-43=-2099/3463, 3-43=-2061/3483, 3-4=-3752/6099, 4-5=-3758/6128, 5-6=-2916/4305, 6-7=-2880/4312, 7-8=-2956/4338, 8-9=-2956/4338, 9-10=-2880/4312, 10-11=-2916/4305, 11-12=-3758/6128, 12-13=-3752/6099, 13-44=-2061/3482, 14-44=-2099/3463
WEBS	2-26=-5436/3395, 25-26=-5299/3473, 24-25=-5250/3517, 23-24=-4329/3206, 22-23=-4351/3233, 21-22=-4290/3250, 20-21=-4290/3250, 19-20=-4351/3233, 18-19=-4329/3206, 17-18=-5250/3514, 16-17=-5299/3473, 14-16=-5436/3395
	8-21=-4517/2981, 11-18=-1066/320, 21-31=-899/1741, 31-32=-884/1713, 11-32=-890/1722, 18-33=-299/552, 33-34=-302/548, 13-34=-296/549, 13-16=-264/85, 3-26=-264/69, 3-30=-296/549, 29-30=-302/548, 24-29=-299/552, 5-24=-1066/320, 5-28=-890/1722, 27-28=-884/1713, 21-27=-899/1741

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-0, Exterior (2) 26-4-0 to 29-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 14, 2 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 674 lb uplift at joint 14 and 674 lb uplift at joint 2.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	B2	Truss	6	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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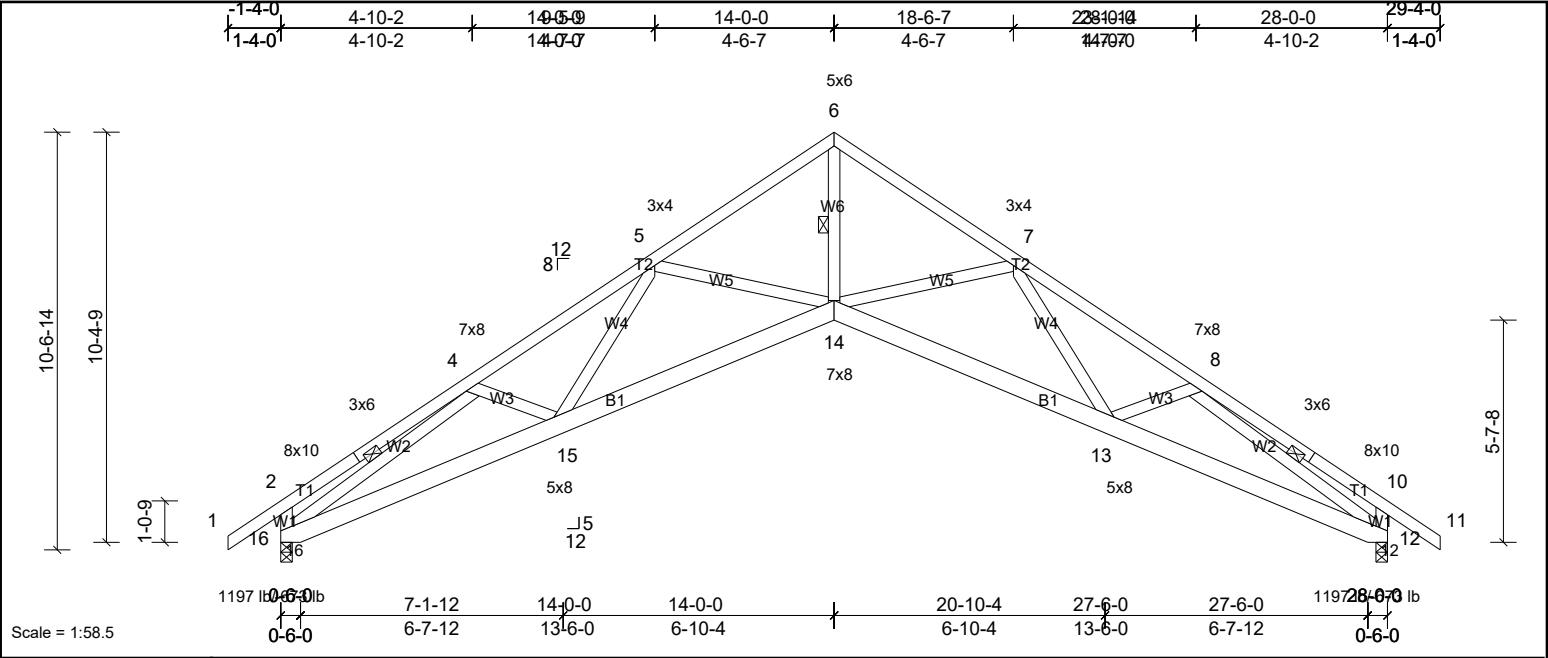


Plate Offsets (X, Y):	[2:Edge,0-3-8], [10:Edge,0-3-8]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.53	14-15	>625	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	0.43	14-15	>767	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	-0.47	12	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 186 lb	FT = 20%

LUMBER		BRACING		
TOP CHORD	2x4 SP No.1 *Except* T1:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals.	
BOT CHORD	2x6 SP SS	BOT CHORD		
WEBS	2x4 SP No.3 *Except* W1,W2:2x4 SP No.2	WEBS	Rigid ceiling directly applied or 3-10-7 oc bracing.	
REACTIONS	(lb/size)	12=1197/0-3-8, (min. 0-1-8), 16=1197/0-3-8, (min. 0-1-8)	1 Row at midpt	6-14, 4-16, 8-12
	Max Horiz	16=585 (LC 9)	<div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>	
	Max Uplift	12=-673 (LC 11), 16=-673 (LC 10)		
	FORCES			
TOP CHORD	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
BOT CHORD	2-3=-640/1067, 3-4=-613/1091, 4-5=-2751/5748, 5-17=-2220/3897, 6-17=-2193/3924, 6-18=-2193/3924, 7-18=-2220/3897, 7-8=-2751/5748, 8-9=-613/1091, 9-10=-640/1067, 2-16=-492/931, 10-12=-492/931			
WEBS	15-16=-4129/2340, 14-15=-3350/2326, 13-14=-3350/2326, 12-13=-4129/2340			
	6-14=-4082/2126, 4-16=-2322/4478, 8-12=-2322/4478, 4-15=-359/272, 5-15=-1224/201, 5-14=-637/1163, 7-14=-637/1163, 7-13=-1224/201, 8-13=-359/321			

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-0, Exterior (2) 26-4-0 to 29-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 16, 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 673 lb uplift at joint 16 and 673 lb uplift at joint 12.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	B3	Truss	4	1	

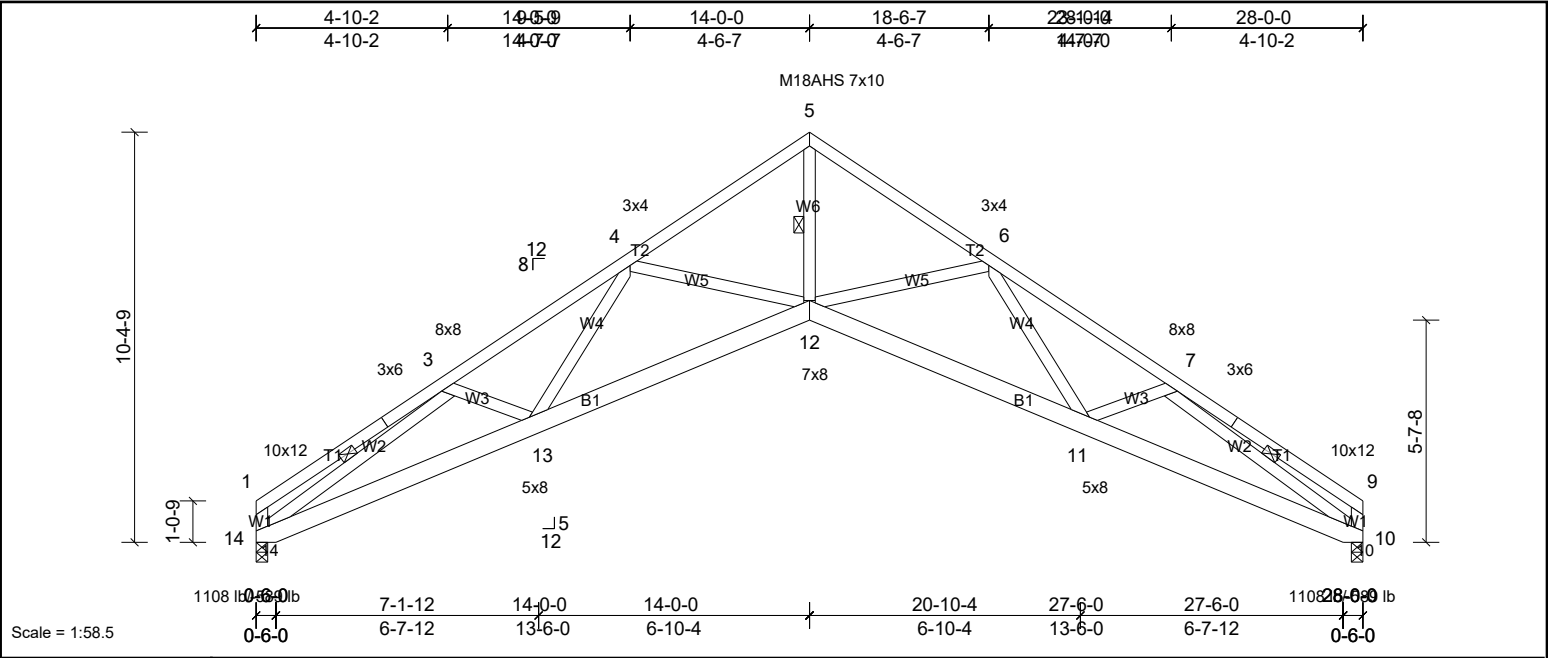


Plate Offsets (X, Y):	[1:Edge,0-2-7], [9:Edge,0-2-7]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.56	12-13	>598	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	0.46	12-13	>728	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	-0.50	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 181 lb	FT = 20%

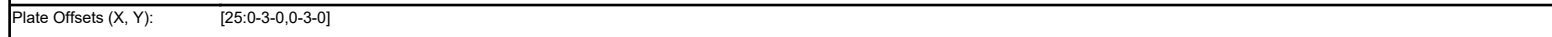
LUMBER	BRACING
TOP CHORD	2x4 SP No.1 *Except* T1:2x4 SP No.2
BOT CHORD	2x6 SP SS
WEBS	2x4 SP No.3 *Except* W1,W2:2x4 SP No.2
REACTIONS	
(lb/size)	10=1108/0-3-8, (min. 0-1-8), 14=1108/0-3-8, (min. 0-1-8)
Max Horiz	14=-535 (LC 6)
Max Uplift	10=-589 (LC 11), 14=-589 (LC 10)
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-506/999, 2-3=-471/1013, 3-4=-2686/5955, 4-15=-2238/4105, 5-15=-2156/4125, 5-16=-2156/4125, 6-16=-2238/4105, 6-7=-2686/5955, 7-8=-471/1013, 8-9=-506/999, 1-14=-450/715, 9-10=-450/715
BOT CHORD	13-14=-4439/2281, 12-13=-3633/2346, 11-12=-3633/2346, 10-11=-4439/2281
WEBS	5-12=-4299/2144, 3-14=-2393/4779, 7-10=-2393/4780, 3-13=-336/283, 4-13=-1239/209, 4-12=-640/1152, 6-12=-640/1152, 6-11=-1239/209, 7-11=-336/326

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-10-4, Exterior (2) 24-10-4 to 27-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 14, 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 589 lb uplift at joint 14 and 589 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 9-8-14 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	
OTHERS	2x4 SP No.3		

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-4-4 to 3-4-4, Exterior (2) 3-4-4 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 24-7-12, Corner (3) 24-7-12 to 27-7-12 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
- 3) Truss designed for wind loads in the plane of the truss only.
- 4) All plates are 2x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 452 lb uplift at joint 32, 167 lb uplift at joint 18, 213 lb uplift at joint 25, 177 lb uplift at joint 26, 187 lb uplift at joint 27, 178 lb uplift at joint 28, 192 lb uplift at joint 29, 144 lb uplift at joint 30, 370 lb uplift at joint 31, 176 lb uplift at joint 24, 188 lb uplift at joint 23, 178 lb uplift at joint 22, 191 lb uplift at joint 21, 149 lb uplift at joint 20 and 346 lb uplift at joint 19.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	B4	Truss	2	1	

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson

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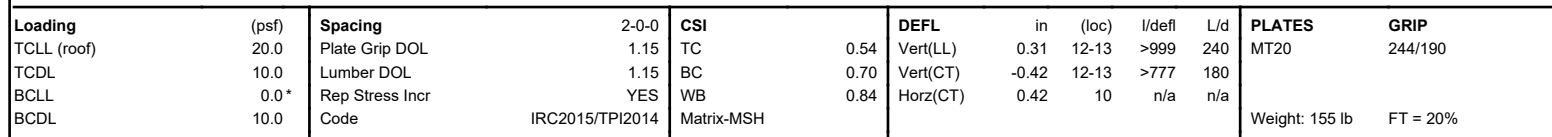
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LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 30 12:30:54 Page: 1
ID: L RuvwJ1vsfPxEarMVenPz1mGC-BA L7SIYxAuEC22D7ZJai7PiOQls9K7NmzVhiEvsuJ?



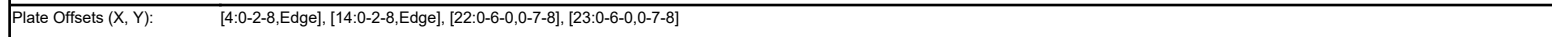
	Max Uplift	10=-5/9 (LC 11), 14=-5/9 (LC 10)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-423/272, 2-3=-389/288, 3-4=-3150/1526, 4-15=-2423/1034, 5-15=-2423/1082, 6-16=-2450/1056, 6-7=-3150/1265, 7-8=-389/288, 8-9=-423/272, 1-14=-405/284, 9-10=-405/284	
BOT CHORD	13-14=-1495/2671, 12-13=-1204/2659, 11-12=-807/2346, 10-11=-1001/2495	
WEBS	5-12=-955/2354, 3-14=-2815/1353, 7-10=-2815/1084, 4-12=-702/621, 6-12=-702/656, 6-11=-219/324, 7-11=-78/281	

- NOTES**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-4-4 to 3-4-4, Interior (1) 3-4-4 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-7-12, Exterior (2) 24-7-12 to 27-7-12 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * 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.
 - 5) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 579 lb uplift at joint 14 and 579 lb uplift at joint 10.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 30 12:30:54 Page: 1
ID:pdRK75Jf9nGYOBnP30tKdz1mGB-BA L7SiYxAuEC22D7ZJaI7PeZQP59TINmZhVhFysuJ?



LUMBER TOP CHORD 2x6 SP No.2 BOT CHORD 2x10 SP No.1 WEBS 2x4 SP No.3 *Except* W2,W3:2x4 SP No.2 OTHERS 2x4 SP No.3	BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. JOINTS 1 Brace at Jt(s): 28 <div style="border: 1px solid black; padding: 5px;"> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. </div>
REACTIONS All bearings 28-0-0. (lb.) 1400/Member -375-600 (1 C 2)	

(lb) - Max Horiz	27=-606 (LC 8)
Max Uplift	All uplift 100 (lb) or less at joint(s) except 18=-286 (LC 7), 19=-390 (LC 18), 20=-129 (LC 11), 21=-494 (LC 21), 22=-181 (LC 11), 23=-190 (LC 10), 24=-491 (LC 20), 25=-128 (LC 10), 26=-401 (LC 7), 27=-305 (LC 6)
Max Grav	All reactions 250 (lb) or less at joint(s) 21, 24 except 18=719 (LC 18), 19=292 (LC 9), 20=354 (LC 19), 22=1148 (LC 19), 23=1161 (LC 18), 25=353 (LC 18), 26=305 (LC 8), 27=733 (LC 19)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-27=-500/256, 2-3=-589/283, 3-4=-459/232, 4-5=-458/246, 5-6=-450/319, 6-7=-425/417, 7-8=-625/549, 8-9=-274/142, 9-10=-275/146, 10-11=-625/549, 11-12=-425/408, 12-13=-439/312, 13-14=-447/239, 14-15=-447/226, 15-16=-576/266, 16-18=-490/256
BOT CHORD	26-27=-224/439, 25-26=-224/439, 24-25=-224/439, 23-24=-224/439, 22-23=-222/428, 21-22=-214/432, 20-21=-214/432, 19-20=-214/432, 18-19=-214/432
WEBS	11-22=-479/349, 7-23=-492/357, 8-28=-413/542, 10-28=-413/542

- NOTES**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-4-0 to 1-8-4, Exterior (2) 1-8-4 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 26-3-12, Corner (3) 26-3-12 to 29-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 27, 286 lb uplift at joint 18, 189 lb uplift at joint 23, 181 lb uplift at joint 22, 490 lb uplift at joint 24, 128 lb uplift at joint 25, 401 lb uplift at joint 26, 493 lb uplift at joint 21, 128 lb uplift at joint 20 and 390 lb uplift at joint 19.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Attic room checked for L/360 deflection.

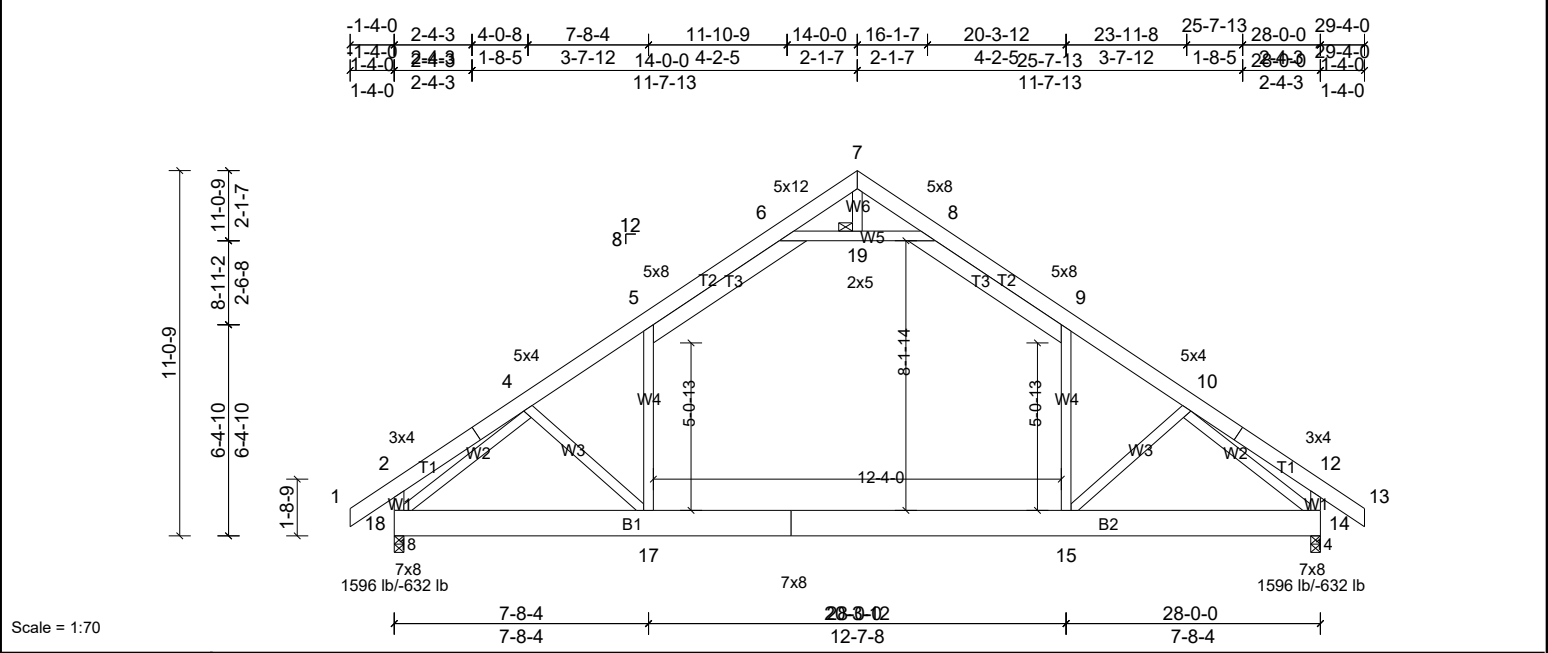
LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	C2	Truss	1	1	

ID:iOhrzSN9nOli1?VYev4pUTz1mG7-fNYjLoIAiU05qCdPhGpGLyr?qddumhX?dFEFiySuJ



Scale = 1:70

Plate Offsets (X, Y): [7:0-3-0,0-1-12], [8:0-3-3,0-3-0], [14:Edge,0-4-12], [18:Edge,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.32	15-17	>999	240	
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.47	15-17	>713	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.02	14	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	15-17	>893	360	
										Weight: 279 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T2:2x6 SP SS	TOP CHORD	Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Brace at Jt(s): 19
BOT CHORD	2x10 SP No.1	BOT CHORD	
WEBS	2x4 SP No.2 *Except* W6,W2,W3:2x4 SP No.3	JOINTS	
REACTIONS	(lb/size)	14=1260/0-3-8, (min. 0-1-14), 18=1260/0-3-8, (min. 0-1-14)	
	Max Horiz	18=-606 (LC 8)	
	Max Uplift	14=-632 (LC 11), 18=-632 (LC 10)	
	Max Grav	14=1596 (LC 19), 18=1596 (LC 18)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-20=-289/260, 3-20=-263/273, 3-4=-251/282, 4-5=-1919/685, 5-21=-1450/677, 6-21=-1392/691, 6-7=-186/586, 7-8=-187/587, 8-22=-1392/691, 9-22=-1450/677, 9-10=-1918/684, 10-11=-251/282, 11-23=-263/273, 12-23=-289/260, 2-18=-297/408, 12-14=-296/408		
BOT CHORD	17-18=-619/1790, 16-17=-283/1523, 15-16=-283/1523, 14-15=-379/1509		
WEBS	9-15=-77/868, 5-17=-78/868, 6-19=-2126/971, 8-19=-2126/971, 4-18=-1939/540, 10-14=-1938/539, 4-17=-412/464, 10-15=-412/465		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-0, Exterior (2) 26-4-0 to 29-4-0 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
 - All plates are 5x6 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.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 632 lb uplift at joint 18 and 632 lb uplift at joint 14.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	C3	Truss	8	1	

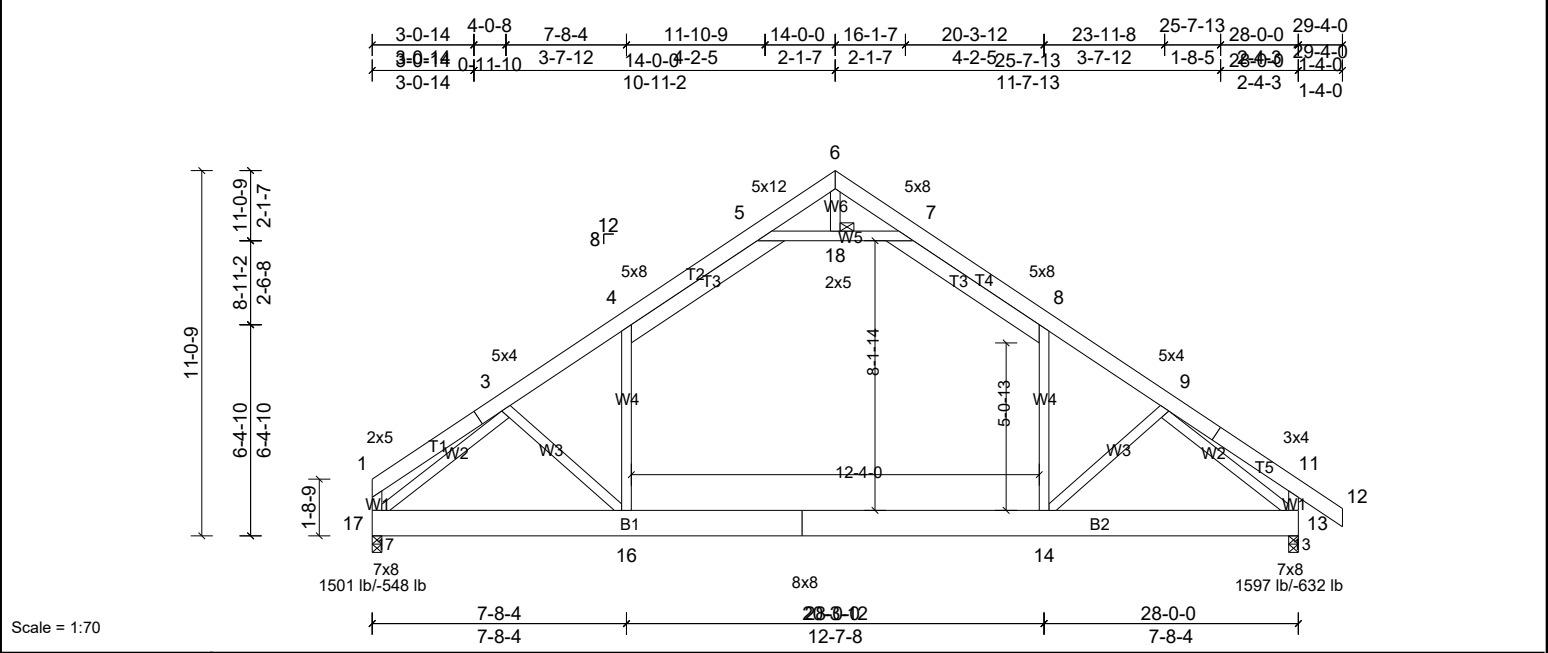


Plate Offsets (X, Y):	[7:0-3-3,0-3-0], [13:Edge,0-4-12], [17:Edge,0-4-12]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.32	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.47	14-16	>712	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	14-16	>892	360	Weight: 275 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T2,T4:2x6 SP SS	TOP CHORD	Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals.
BOT CHORD	2x10 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* W6,W2,W3:2x4 SP No.3	JOINTS	1 Brace at Jt(s): 18
REACTIONS	(lb/size)	13=1263/0-3-8, (min. 0-1-14), 17=1169/0-3-8, (min. 0-1-12)	
	Max Horiz	17=-589 (LC 8)	
	Max Uplift	13=-632 (LC 11), 17=-548 (LC 10)	
	Max Grav	13=1597 (LC 19), 17=1501 (LC 18)	
FORCES		<div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	1-2=-295/209, 2-3=-258/214, 3-4=-1924/693, 4-19=-1450/677, 5-19=-1393/696, 5-6=-186/589, 6-7=-186/589, 7-20=-1392/698, 8-20=-1450/693, 8-9=-1922/685, 9-10=-251/282, 10-21=-263/273, 11-21=-289/260, 1-17=-256/198, 11-13=-296/408		
BOT CHORD	16-17=-628/1806, 15-16=-284/1527, 14-15=-284/1527, 13-14=-379/1512		
WEBS	8-14=-77/869, 4-16=-80/870, 5-18=-2127/981, 7-18=-2127/981, 3-17=-1939/576, 9-13=-1942/540, 3-16=-406/475, 9-14=-412/465		

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

2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-0, Exterior (2) 26-4-0 to 29-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 5x6 MT20 unless otherwise indicated.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * 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.

6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-18, 7-18

7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16

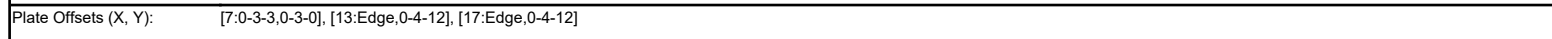
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 17 and 632 lb uplift at joint 13.

9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Attic room checked for L/360 deflection.
- LOAD CASE(S)

Standard

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Kirk Robertson Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 30 12:30:55 Page: 1
ID: kcURsSY7YAiN4XuYtiSGxz1mG0-fNYJLoIAiU05qCdPhGqGLyr0qdeumIX?dFEfiysuJ



LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T2,T4:2x6 SP SS	TOP CHORD	Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
BOT CHORD	2x10 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* W6,W2,W8,W3,W7:2x4 SP No.3	JOINTS	1 Brace at Jt(s): 18

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-0, Exterior (2) 26-4-0 to 29-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 5x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-18, 7-18
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 547 lb uplift at joint 17 and 631 lb uplift at joint 13.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	C5	Truss	1	2	

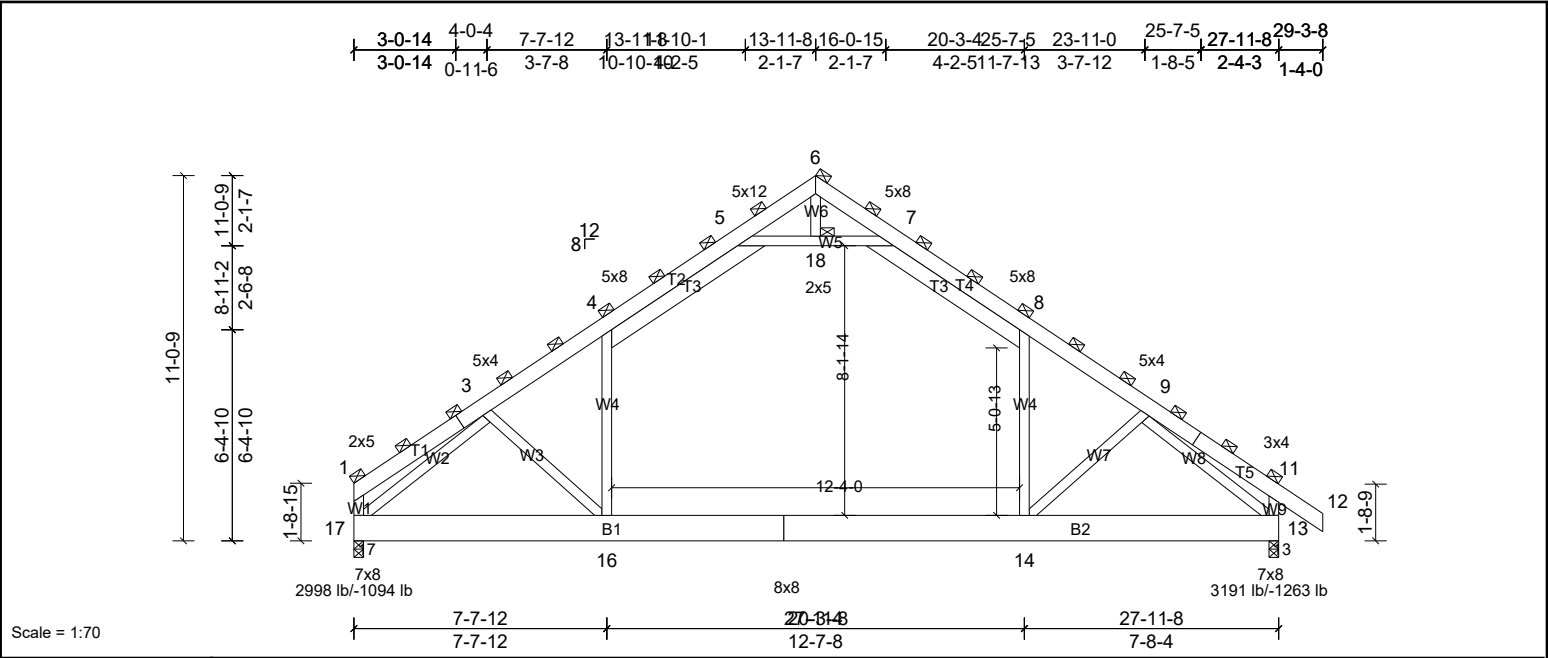


Plate Offsets (X, Y):	[7:0-3-3,0-3-0], [13:Edge,0-4-12], [17:Edge,0-4-12]
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Loading	(psf)	Spacing	4-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.32	14-16	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.46	14-16	>714	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.02	13	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	14-16	>894	360	
										Weight: 550 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T2,T4:2x6 SP SS	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	2x10 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W4,W5:2x4 SP No.2	JOINTS	1 Brace at Jt(s): 6, 18, 1, 11
REACTIONS	(lb/size)	13=2522/0-3-8, (min. 0-1-14), 17=2335/0-3-8, (min. 0-1-12)	
	Max Horiz	17=-1180 (LC 6)	
	Max Uplift	13=-1263 (LC 11), 17=-1094 (LC 10)	
	Max Grav	13=3191 (LC 19), 17=2998 (LC 18)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-556/407, 2-3=-482/415, 3-4=-3838/1383, 4-19=-2895/1353, 5-19=-2779/1390, 5-6=-369/1170, 6-7=-370/1172, 7-20=-2778/1394, 8-20=-2893/1353, 8-9=-3835/1366, 9-10=-482/565, 10-21=-505/546, 11-21=-557/520, 1-17=-491/387, 11-13=-584/816		
BOT CHORD	16-17=-1241/3585, 15-16=-565/3046, 14-15=-565/3046, 13-14=-756/3017		
WEBS	8-14=-152/1734, 4-16=-158/1736, 5-18=-4237/1956, 7-18=-4237/1956, 6-18=-88/334, 3-17=-3892/1153, 9-13=-3886/1077, 3-16=-787/939, 9-14=-825/929		

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-0, Exterior (2) 26-4-0 to 29-4-0 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
 - All plates are 5x6 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-18, 7-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1094 lb uplift at joint 17 and 1263 lb uplift at joint 13.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

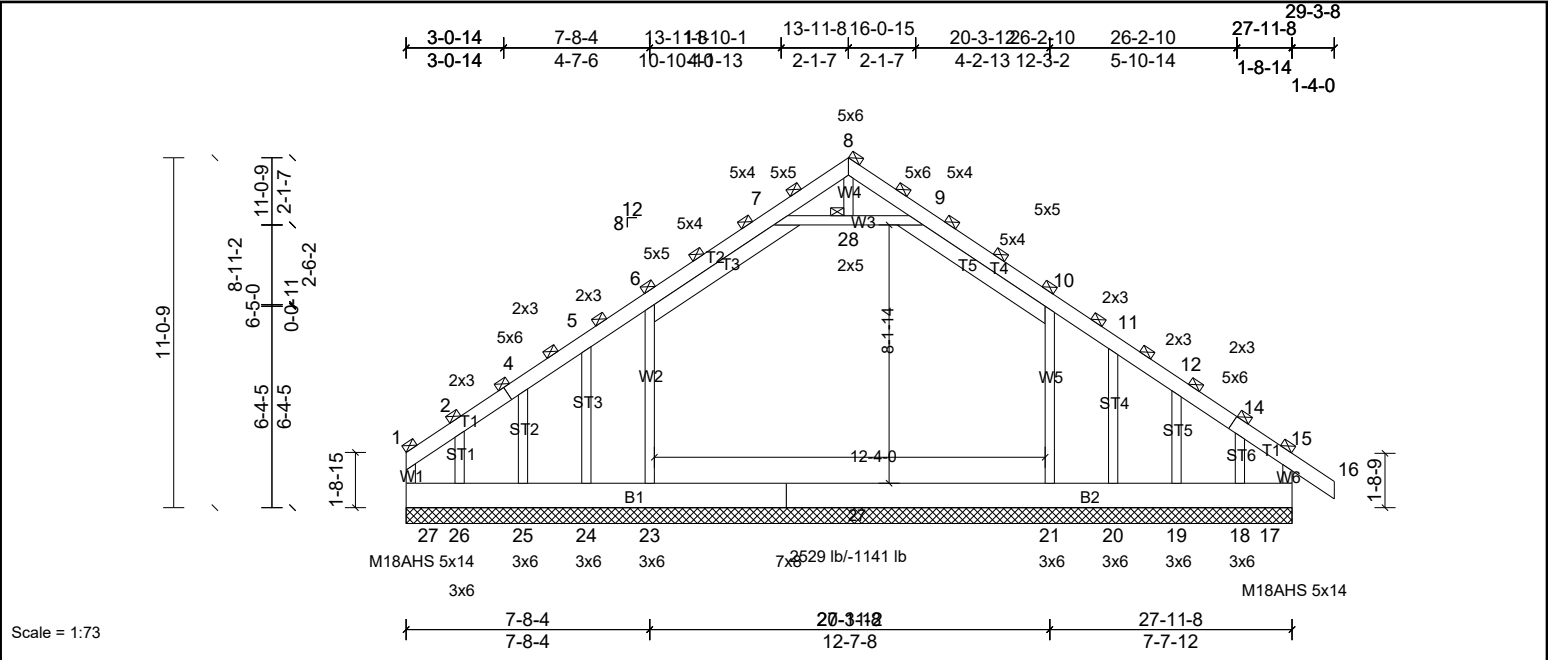
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	C6	Truss	1	2	

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Loading	(psf)	Spacing	4-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 546 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD	2x10 SP No.1		(Switched from sheeted: Spacing > 2-0-0).
WEBS	2x4 SP No.3 *Except* W2,W5,W3:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 1, 8, 15, 28
REACTIONS	All bearings 27-11-8.		
	(lb) - Max Horiz 27=-1180 (LC 6)		
	Max Uplift All uplift 100 (lb) or less at joint(s) except 17=-524 (LC 7), 18=-881 (LC 18), 19=-240 (LC 11), 20=-1141 (LC 16), 21=-294 (LC 11), 23=-285 (LC 10), 24=-1139 (LC 16), 25=-239 (LC 10), 26=-876 (LC 7), 27=-524 (LC 6)		
	Max Grav All reactions 250 (lb) or less at joint(s) 20, 24 except 17=1575 (LC 18), 18=518 (LC 9), 19=727 (LC 19), 21=2529 (LC 19), 23=2530 (LC 18), 25=715 (LC 18), 26=592 (LC 8), 27=1459 (LC 19)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-27=-951/341, 1-2=-1252/488, 2-3=-1003/414, 3-4=-930/429, 4-5=-991/573, 5-6=-930/779, 6-7=-1399/1031, 7-8=-639/238, 8-9=-640/240, 9-10=-1399/1030, 10-11=-918/756, 11-12=-976/554, 12-13=-983/409, 13-14=-986/385, 14-15=-1265/481, 15-17=-1068/432		
BOT CHORD	26-27=-363/940, 25-26=-363/940, 24-25=-363/940, 23-24=-363/940, 22-23=-363/940, 21-22=-363/940, 20-21=-363/940, 19-20=-363/940, 18-19=-363/940, 17-18=-363/940		
WEBS	6-23=-1094/643, 10-21=-1094/652, 7-28=-849/1062, 9-28=-849/1062, 5-24=-277/445, 4-25=-468/400, 2-26=-354/575, 11-20=-269/438, 12-19=-465/408, 14-18=-365/494		

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 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=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) exterior zone and C-C Corner (3) 0-2-4 to 3-2-4, Exterior (2) 3-2-4 to 11-0-0, Corner (3) 11-0-0 to 17-0-0, Exterior (2) 17-0-0 to 26-4-0, Corner (3) 26-4-0 to 29-4-0 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-28, 9-28
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 524 lb uplift at joint 27, 524 lb uplift at joint 17, 285 lb uplift at joint 23, 294 lb uplift at joint 21, 1139 lb uplift at joint 24, 238 lb uplift at joint 25, 876 lb uplift at joint 26, 1141 lb uplift at joint 20, 239 lb uplift at joint 19 and 880 lb uplift at joint 18.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	C6	Truss	1	2	

- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	D1	Truss	2	1	

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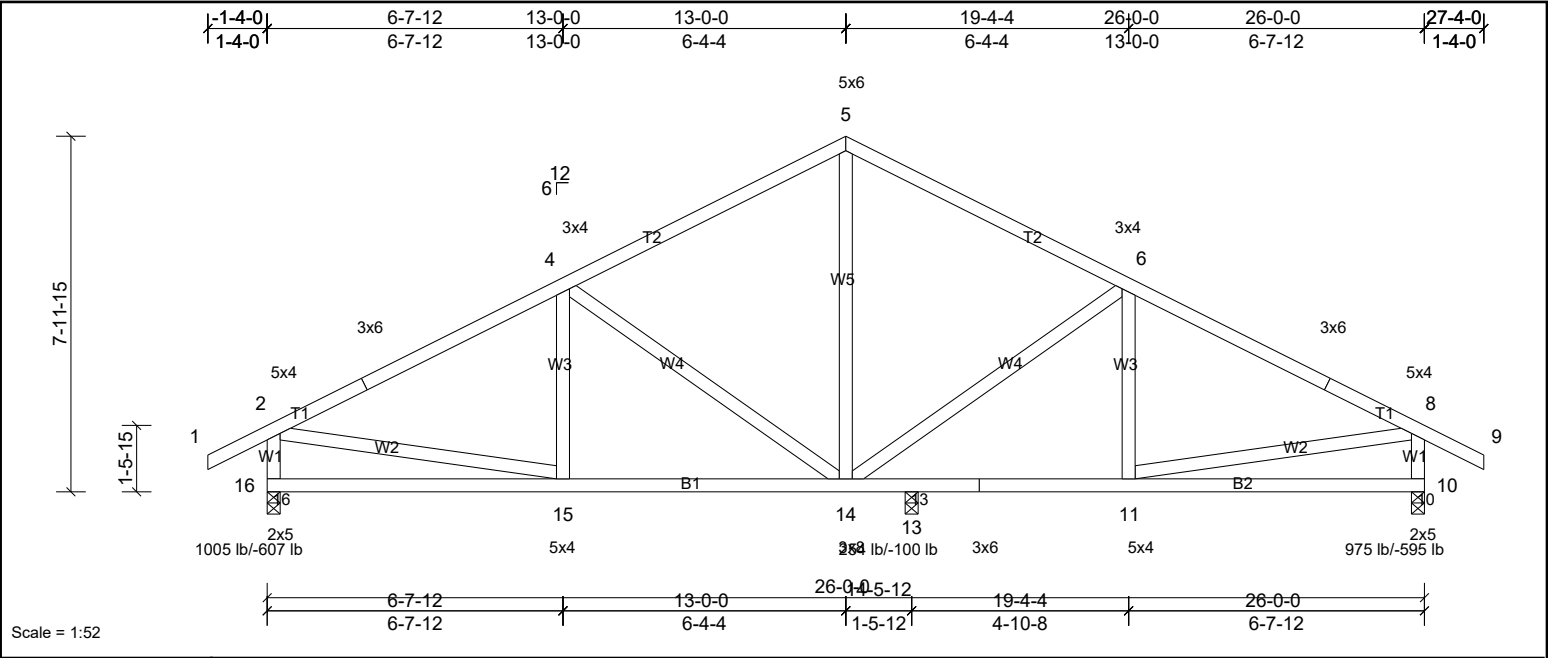


Plate Offsets (X, Y): [2:0-1-4,0-2-4], [8:0-1-4,0-2-4], [10:0-3-0,0-0-8], [16:0-3-0,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.10	14-15	>999	240	
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.14	14-15	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	10	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 154 lb	FT = 20%

LUMBER			BRACING			
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.		
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 7-5-2 oc bracing.		
WEBS	2x4 SP No.3			MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		
REACTIONS						
	(lb/size)	10=975/0-3-8, (min. 0-1-8), 13=254/0-3-8, (min. 0-1-8), 16=1005/0-3-8, (min. 0-1-8)				
	Max Horiz	16=-273 (LC 8)				
	Max Uplift	10=-595 (LC 11), 13=-100 (LC 11), 16=-607 (LC 10)				
FORCES						
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.					
TOP CHORD		2-17=-1206/720, 3-17=-1151/727, 3-4=-1122/751, 4-18=-843/674, 5-18=-751/690, 5-19=-751/690, 6-19=-843/674, 6-7=-1052/719, 7-20=-1081/695, 8-20=-1136/687, 2-16=-948/780, 8-10=-902/759				
BOT CHORD		15-16=-292/299, 14-15=-610/1003, 13-14=-422/941, 12-13=-422/941, 11-12=-422/941				
WEBS		2-15=-375/896, 8-11=-338/816, 4-14=-439/488, 5-14=-203/385, 6-14=-380/458				

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 10-0-0, Exterior (2) 10-0-0 to 16-0-0, Interior (1) 16-0-0 to 24-4-0, Exterior (2) 24-4-0 to 27-4-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 607 lb uplift at joint 16, 595 lb uplift at joint 10 and 100 lb uplift at joint 13.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	D2	Truss	1	1	

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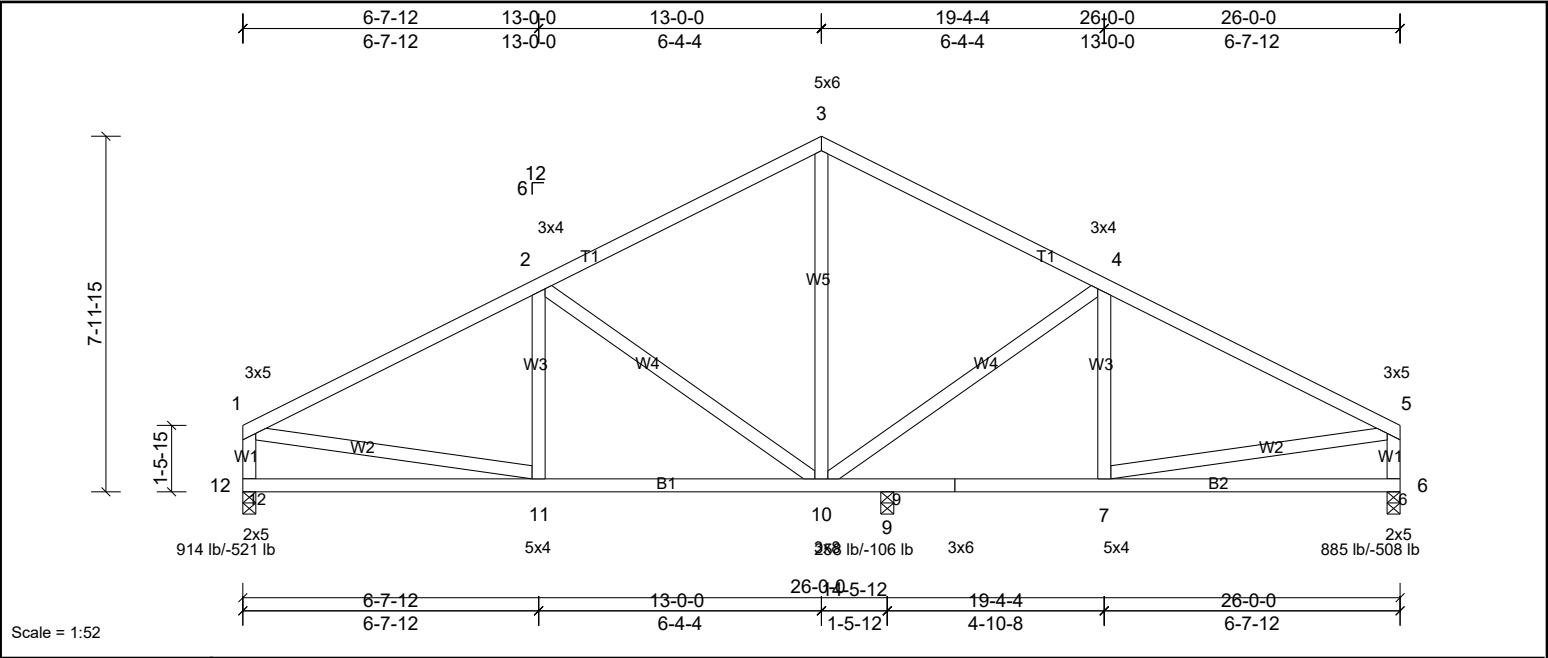


Plate Offsets (X, Y): [1:Edge,0-0-8], [5:Edge,0-0-8], [6:0-2-12,0-0-8], [12:0-2-12,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.11	10-11	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.15	10-11	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
										Weight: 150 lb	FT = 20%

LUMBER			BRACING		
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals.	
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 7-2-14 oc bracing.	
WEBS	2x4 SP No.3			<div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>	
REACTIONS					
(lb/size)	6=885/0-3-8, (min. 0-1-8), 9=258/0-3-8, (min. 0-1-8), 12=914/0-3-8, (min. 0-1-8)				
Max Horiz	12=-255 (LC 6)				
	Max Uplift	6=-508 (LC 11), 9=-106 (LC 11), 12=-521 (LC 10)			
FORCES			(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-13=-1218/761, 2-13=-1138/782, 2-14=-851/677, 3-14=-755/708, 3-15=-755/708, 4-15=-851/677, 4-16=-1067/746, 5-16=-1147/725, 1-12=-858/623, 5-6=-811/599				
BOT CHORD	11-12=-271/268, 10-11=-641/1021, 9-10=-476/957, 8-9=-476/957, 7-8=-476/957				
WEBS	1-11=-435/926, 5-7=-393/845, 2-10=-454/499, 3-10=-228/391, 4-10=-394/468				

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-0-0, Exterior (2) 10-0-0 to 16-0-0, Interior (1) 16-0-0 to 22-10-4, Exterior (2) 22-10-4 to 25-10-4 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 521 lb uplift at joint 12, 508 lb uplift at joint 6 and 106 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	D3	Truss	1	3	

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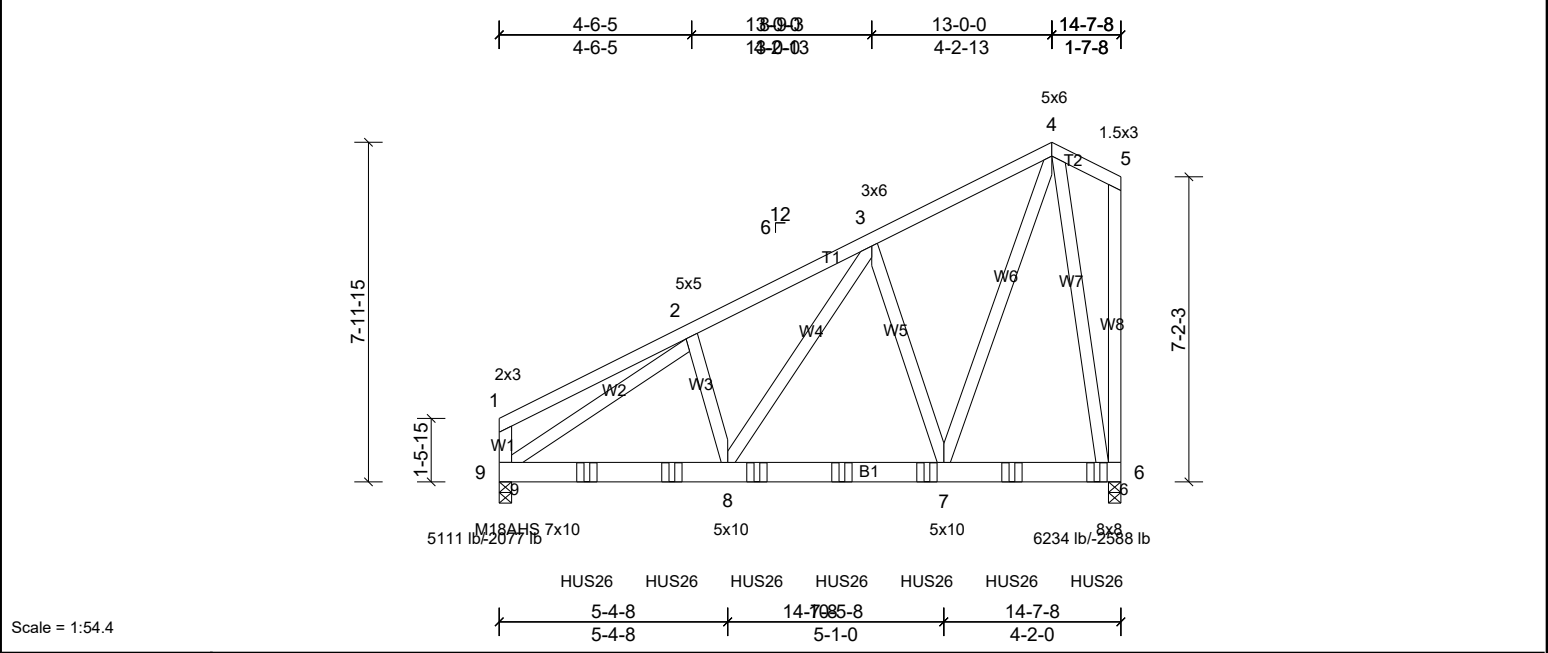


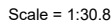
Plate Offsets (X, Y): [4:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	0.07	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.11	7-8	>999	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 364 lb	FT = 20%

LUMBER			BRACING		
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	2x6 SP No.2				
WEBS	2x4 SP No.3		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(lb/size)	6=5022/0-3-8, (min. 0-2-7), 9=4174/0-3-8, (min. 0-2-0)			
	Max Horiz	9=568 (LC 25)			
	Max Uplift	6=-2588 (LC 8), 9=-2077 (LC 8)			
	Max Grav	6=6234 (LC 15), 9=5111 (LC 16)			
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.				
TOP CHORD	1-2=-826/404, 2-3=-6139/2594, 3-4=-3298/1465, 4-5=-281/227, 1-9=-487/318				
BOT CHORD	9-10=-2281/5275, 10-11=-2281/5275, 8-11=-2281/5275, 8-12=-1542/3567, 12-13=-1542/3567, 13-14=-1542/3567, 7-14=-1542/3567, 7-15=-494/958, 15-16=-494/958, 6-16=-494/958				
WEBS	4-6=-4614/1944, 4-7=-2634/6137, 3-7=-2243/1218, 3-8=-1587/3782, 2-8=-356/1178, 2-9=-5788/2228				

- NOTES**
- 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 oc.
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), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2588 lb uplift at joint 6 and 2077 lb uplift at joint 9.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) C3 (1 ply 2x10 SP) to front face of bottom chord.
 - 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, 4-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 10=-1149 (F), 11=-1149 (F), 12=-1149 (F), 13=-1149 (F), 14=-1149 (F), 15=-1149 (F), 16=-1155 (F)

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LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3		BRACING TOP CHORD BOT CHORD		Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS All bearings 6-0-0		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		

REACTIONS	All bearings 6-0-0.
(lb) - Max Horiz	1=46 (LC 10)
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5, 6 except 2=-133 (LC 10), 4=-128 (LC 11), 7=-133 (LC 10), 10=-128 (LC 11)
Max Grav	All reactions 250 (lb) or less at joint(s) 1, 2, 4, 5, 6, 7, 10

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDD=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2'-0" oc.
- 6) 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 2=133, 4=128, 2=133, 4=128.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See standard piggyback truss connection detail for connection to base truss.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
24061913	PB2	Truss	18	1	

