

Job 24061831	Truss E5L	Truss Type Truss	Qty 1	Ply 3	Job Reference (optional)
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Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 02 14:31:23

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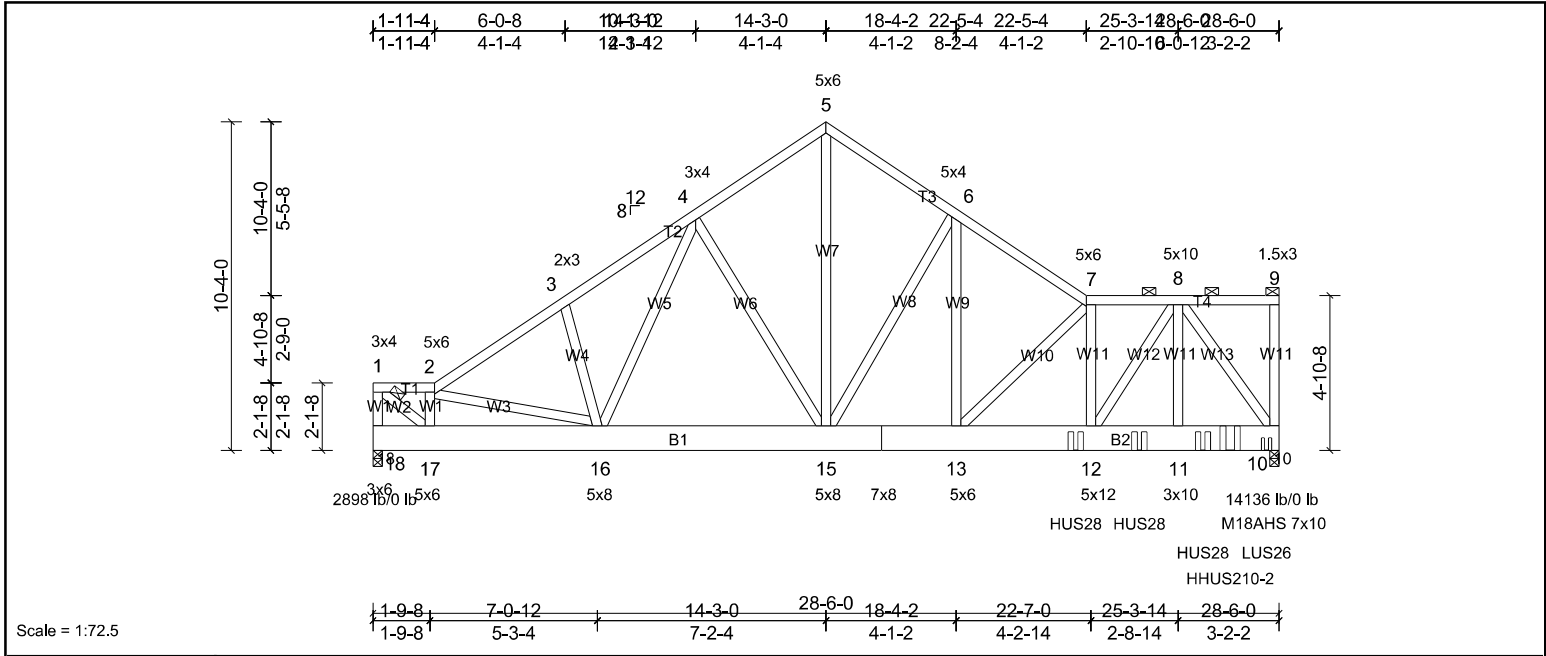


Plate Offsets (X, Y):	[11:0-7-12,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.15	12-13	>999	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.02	10	n/a	n/a		
BCDL	15.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 827 lb	FT = 20%

LUMBER	BRACING
TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.3
	TOP CHORD
	BOT CHORD
	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 7-9.
	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	10=12757/0-3-8, (req. 0-3-14), 18=2898/0-3-8, (min. 0-1-8)
	Max Horiz	18=335 (LC 5)
	Max Grav	10=14136 (LC 2), 18=2898 (LC 1)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-18=-2425/0, 1-2=-2501/0, 2-3=-4243/0, 3-4=-4200/0, 4-5=-3928/0, 5-6=-3931/0, 6-7=-5981/0, 7-8=-8750/0
BOT CHORD	17-18=-302/299, 16-17=0/2863, 16-19=0/3408, 19-20=0/3408, 15-20=0/3408, 14-15=0/4956, 13-14=0/4956, 13-21=0/8732, 12-21=0/8732, 12-22=0/6576, 11-22=0/6576, 11-23=0/6576, 23-24=0/6576, 10-24=0/6576
WEBS	1-17=0/3363, 2-17=-2730/0, 2-16=0/810, 3-16=-341/192, 4-16=-240/254, 4-15=-422/325, 5-15=0/4011, 6-15=-3498/0, 6-13=0/3860, 7-13=-5522/0, 7-12=0/799, 8-12=0/4118, 8-11=0/5740, 8-10=-11383/0

- NOTES**
- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with Simpson SDS 1/4 x 4-1/2 screws as follows: 2x10 - 3 rows staggered at 0-5-0 oc.
Web chords connected with 10d (0.131"x3") nails 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=115mph (3-second gust) Vasd=91mph; 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
 - 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, with BCDL = 15.0psf.
 - WARNING: Required bearing size at joint(s) 10 greater than input bearing size.
 - 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.
 - Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 22-1-4 from the left end to 26-1-4 to connect truss(es) D8 (1 ply 2x4 SP) to front face of bottom chord.
 - Use Simpson Strong-Tie HHUS210-2 (30-16d Girder, 10-16d Truss) or equivalent at 26-11-8 from the left end to connect truss(es) D9L (2 ply 2x10 SP) to front face of bottom chord.
 - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 28-1-4 from the left end to connect truss(es) D10 (1 ply 2x4 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

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.

