

Job:(STOCK23) / -OPEN / / 1 40' 4/12 40# STOCK

This dwg. prepared by the ITW job designer program from truss mfr's layout.

Top chord 2x4 SPF 1650f-1.5E :T2, T3 2x4 SPF #1/#2:
Bot chord 2x4 SPF 1650f-1.5E
Webs 2x4 SPF Stud

115 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg,
Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=4.2 psf,
wind BC DL=6.0 psf.

Calculated horizontal deflection is 0.17" due to live load and 0.09"
due to dead load.

In lieu of structural panels or rigid ceiling use purlins
to laterally brace chords as follows:

CHORD	SPACING(IN OC)	START(FT)	END(FT)
BC	120	0.15	39.85

Apply purlins to any chords above or below fillers
at 24" OC unless shown otherwise above.

Wind loads and reactions based on MWFRS with additional C&C
member design.

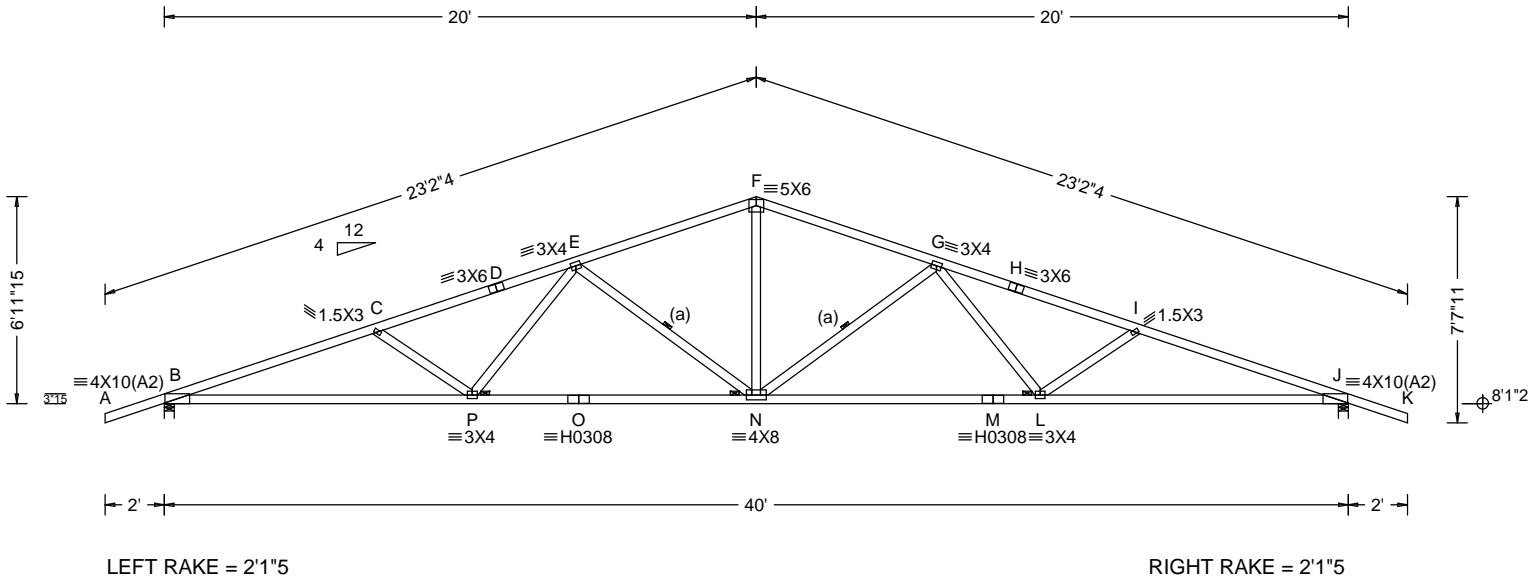
Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 2.00.

Truss designed for unbalanced snow load based on Pg=40.00 psf,
Ct=1.10, Ce=1.00, CAT II & Pf=30.80 psf.

(a) Continuous lateral restraint equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent bottom chord
live load applied per IBC-15 section 1607.

Calculated vertical deflection is 0.54" due to live load and 0.56" due
to dead load at X = 20-0-0.



▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
B	2141	/ -	/ 836	/ -	/ 108	/ 4.0
J	2141	/ -	/ 836	/ -	/ -	/ 4.0

Wind reactions based on MWFRS

B Min Brg Width Req = 3.4

J Min Brg Width Req = 3.4

Bearings B & J are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	52	0	F - G	589	-3172
B - C	778	-5001	G - H	686	-4400
C - D	678	-4501	H - I	678	-4501
D - E	685	-4400	I - J	778	-5001
E - F	589	-3172	J - K	52	0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	4670	-655	N - M	3787	-512
P - O	3787	-507	M - L	3787	-512
O - N	3787	-507	L - J	4670	-661

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - P	200	-596	N - G	247	-1278
P - E	679	0	G - L	679	0
E - N	247	-1278	L - I	199	-596
F - N	1494	-164			

DESC = 1 40' 4/12 40# STOCK

PLT TYP. WAVE

DESIGN CRIT=IBC 2015 /TPI-2014 FT/RT=0%(0%)/0(0)

PLY= 1 QTY= 30

REV. 15.02.00C.1217.15



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown.

The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

TC LL 32.00 PSF

TC DL 7.00 PSF

BC DL 10.00 PSF

BC LL 0.00 PSF

TOT. LD 49.00 PSF

DUR. FAC 1.15

SPACING 24.0 "

JOB #: STOCK23

DATE - 03/07/23

1 40' 4/12 40# STOCK

WEIGHT =182.4

SEQ - 86856

TYPE COMN