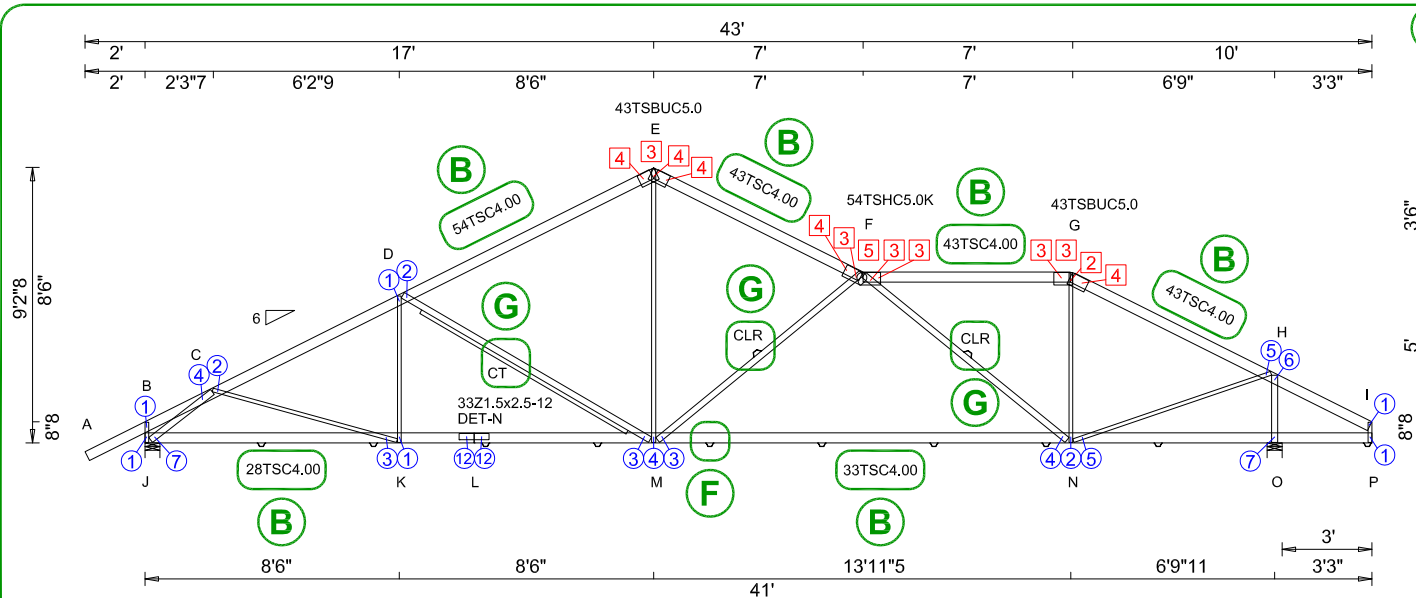


TrussSteel Truss Design Drawing Explanation

Content Legend:

- A** = Truss picture - Includes dimensions, screw quantities, pitch marks, member restraint locations and panel point letter designations
- B** = Truss chord members
- C** = Truss web members
- D** = Truss reactions, bearing width (W) and bearing elevation (H)
- E** = General Notes
- F** = Chord lateral restraint chart
- G** = Truss web restraint or reinforcement
- H** = Building Code, CFS Design Criteria and Loading Standard
- I** = Wind Design Criteria
- J** = End vertical and cantilever exposure
- K** = Snow Design Criteria
- L** = Deflection Criteria with maximum deflections
- M** = Fastener key
- N** = Seal box
- O** = Maximum chord CSI and forces chart
- P** = Maximum web CSI and forces chart
- Q** = Dead & Live Load Design Criteria with Truss Spacing
- R** = Job information box
- S** = Truss information box



Note: Dimensions are shown in Feet' Inches" and Sixteenths (xx'xx"xx") format

R=3690#
RL=425/-449#
W=6"
H=10'
Restraint

R=4091#
W=6"
H=10'
Restraint

Wind loading based on both gable and hip roof types.

CLR - Continuous Lateral Restraint equally spaced on member.

CT - 362S162-33 T-Brace, end within 2" from each chord. Attach to the web with #10 screws through the side face, 1" from each end and 24" oc. See DWG TS019 for web stiffener details.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

Purlins are shown to indicate required spacing only. Purlin size, grade, orientation and placement shall comply with the Building Designer's requirements.

Truss designed for unbalanced snow loads.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-2.00	17.00	Structural Panels
Sloped TC	17.00	24.00	Structural Panels
Flat TC	24.00	31.00	Structural Panels
Sloped TC	31.00	41.00	Structural Panels
BC	00.00	37.75	Purlins at 48"
BC	37.75	41.00	Purlins at 39"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.

This drawing must be reviewed by a Registered Design Professional before use. Refer to the job general notes page referenced on this drawing for warnings, important information and specifications.

Building Code
IBC 2018
Design Criteria
AISI S100-2016
Loading Standard
ASCE 7-16

Wind Criteria
Speed: 120 mph
Exposure: C
TC DL: 5.00 psf
Mean Height: 15.00 ft
C&C Dist: 4.10 ft
Loc. from endwall: Greater than 17.00 ft
Wind Reactions based on MWFRS
Member Design based on both MWFRS and C&C

Ends Exposed to Wind
Left End Vertical
Deflection meets
Right End Vertical
Deflection meets
Left End Cant.
Right End Cant.

Snow Criteria
Pg: 20.00 psf
Pf: 16.94 psf
Cat III (Is=1.10)
Ct: 1.10
Ce: 1.00
Cs: 1.00

Deflection
BC Deflection meets
L/360 live L/240 total
Max. Deflection(in)
Live Total XLoc(ft)
0.33 0.58 24.30 V
0.13 0.22 41.00 H

Fasteners
Callout Color Name
Blue 14AMDB2.125
Red 14AMDR2.375
Black 14AMD2.625
Gold 14AMS.75
Minimum number of fasteners shown per member

MAXIMUM CHORD FORCES PER PLY (lbs)				Max. Chord CSI TC 0.973 BC 0.926			
Chords	Tens.	Comp.		Chords	Tens.	Comp.	
A - B	118	0		K - L	5179	-721	
B - C	238	-136		L - M	5179	-721	
C - D	938	-5838		M - N	5343	-951	
D - E	895	-4717		N - O	0	-1	
E - F	929	-4575		O - P	0	-1	
F - G	857	-3392					
G - H	844	-4069					
H - I	238	0					
J - K	3945	-707					

MAXIMUM WEB FORCES PER PLY (lbs)				Max. WEB CSI 0.878			
Webs	Size	Tens.	Comp.	Webs	Size	Tens.	Comp.
B - J	33C1.5x1.5	440	-461	G - N	33C1.5x1.5	990	0
C - J	47W1.5x2.5	759	-4995	H - N	33W1.5x1.5	3585	-537
C - K	33C1.5x1.5	1280	-15	H - O	33Z1.5x2.50	845	-4159
D - K	33C1.5x1.5	193	-16	I - P	33C1.5x1.5	75	0
D - M	33Z1.5x2.50	400	-1549				
E - M	33Z1.5x1.62	2549	-457				
F - M	33Z1.5x2.50	791	-1940				
F - N	33Z1.5x2.50	575	-2513				

Loading Criteria	
TC LL	20.0 psf
TC DL	10.0 psf
BC LL	0.0 psf
BC DL	10.0 psf
TOT. LD	40.0 psf
SPACING	48.0"
NCBCLL	0.0 psf
SOFFIT	2.0 psf

[Truss Label]

JOB NAME: TrussSteel Truss Design Drawing Explanation
JOB NUMBER: _____
DATE: _____
DESIGNED BY: _____
GENERAL NOTES ID: TSGN-100
DRAWING NUMBER: TSGN-200

SCALE = _____
CHK BY: _____
CUST: _____
JREF: _____

QTY= _____ TOTAL= _____
TRUSS TAG NUMBER: _____

SEQ = _____
GALVANIZATION=G90
REV. _____
TRUSS WEIGHT = 243 LB