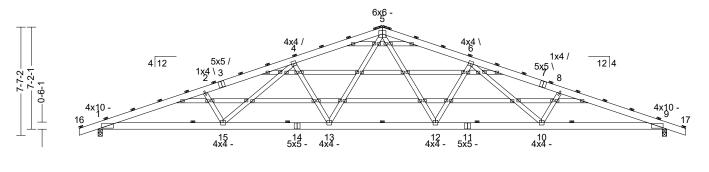


2425 MCMINNVILLE HWY PHONE: (931)-616-0055 MANCHESTER TN 37355 Truss: GABLE
Job: STOCK 40S
Designer:RYAN WATSON
Date: 07/27/23 08:20:58

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
40-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	48 in	319 lbs







All plates shown to be Eagle 20 unless otherwise noted.

	<i>O</i> .							
Loading (psf)	General		CSI	Deflection	ì	L/	(loc)	Allowed
TCLL: 20	Bldg Code:	IBC 2009/	TC: 0.72 (8-9)	Vert TL:	0.61 in	L/776	(12-13)	L/120
TCDL: 5(rake)		TPI 1-2007	BC: 0.88 (15-1)	Vert LL:	0.39 in	L/999	(12-13)	L/180
BCLL: 0	Rep Mbr:	No	Web: 0.49 (6-12)	Horz TL:	0.18 in		9	
BCDL: 5	Lumber D.O.L.	: 125%						
				1				

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	3.02 in	2,557 lbs		-631 lbs	-650 lbs	-650 lbs	29 lbs
9	1	3.5 in	3.02 in	2,557 lbs		-631 lbs	-650 lbs	-650 lbs	•

Material

TC: SYP#1 2 x 6 BC: SYP#1 2 x 6 Web: SYP#2 2 x 4

Bracing

TC: Purlins at 24 "OC, Purlin design by Others. BC: Sheathed or Purlins at 6-8-0, Purlin design by Others.

Loads

- 1) This truss has been designed for the effects of balanced (12.6 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 05 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Building Category I (I = 0.80), Thermal (Ct = 1.20), DOL = 1.15. Unobstructed slippery surface. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 3) This truss has been designed for the effects of wind loads in accordance with ASCE7 05 with the following user defined input: 90 mph, Exposure C, Partial, Gable/Hip, Building Category I (I = 0.87), h = 15 ft, Not End Zone Truss, Both end webs considered. DOL = 1.60
- 4) Unbalanced roof live loads have not been considered.
- 5) Minimum storage attic loading has not been applied in accordance with IBC 1607.1
- 6) In accordance with IBC 1607.1, minimum BCLL's do not apply.
- 7) This truss is designed as an agricultural truss which for the purposes of this program is defined as a structure that represents a low hazard to people and property. See BCSI-10 for installation and temporary bracing.

Member Forces
Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

T	C	1-2	0.723	-6,267 lbs		4-5	0.418	-4,579 lbs	6-8	0.543	5 -5,948 lbs					
_		2-4	0.545	-5,948 lbs		5-6	0.418	-4,579 lbs	8-9	0.723	3 -6,267 lbs					
В	С	9-10	0.884	5,857 lbs	(-1,318 lbs)	12-13	0.479	3,647 lbs	(-634 lbs) 15-	1 0.884	4 5,857 lbs	(-1,318 lbs)				
_		10-12	0.620	4,768 lbs	(-983 lbs)	13-15	0.620	4,768 lbs	(-983 lbs)							
W	Veb	2-15	0.100	-642 lbs		4-13	0.489	-1,060 lbs	5-1	2 0.285	5 1,242 lbs	(-274 lbs)	6-10	0.241	1,070 lbs	(-229 lbs)
		4-15	0.241	1,070 lbs	(-229 lbs)	5-13	0.285	1,242 lbs	(-274 lbs) 6-1	2 0.489	9 -1,060 lbs		8-10	0.100	-642 lbs	



2425 MCMINNVILLE HWY PHONE: (931)-616-0055 MANCHESTER TN 37355

Truss: GABLE STOCK 40S Designer:RYAN WATSON Date: 07/27/23 08:20:58

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
40-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	48 in	319 lbs

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable webs placed at 24 "OC, U.N.O.

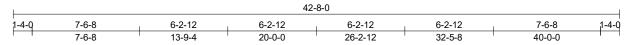
- 3) Attach structural gable blocks with 2x3 20ga plates, U.N.O.
 4) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
 5) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TCDL 5 psf.
- 6) Building Designer shall verify self weight of the truss and other dead load materials do not exceed BCDL 5 psf.
- 7) Design assumes minimum 2x_ (vertical orientation, visually graded) purlins attached to the TC at purlin spacing shown with at least 2-10d nails.
- 8) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member.
- 9) A creep factor of 1.00 has been applied for this truss analysis.
- 10) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 11) Listed wind uplift reactions based on MWFRS & C&C loading.

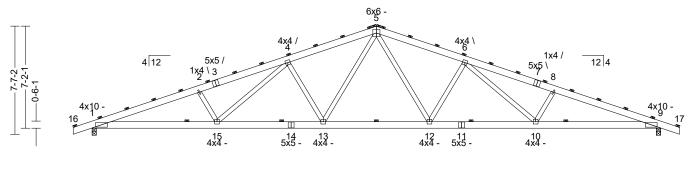


2425 MCMINNVILLE HWY PHONE: (931)-616-0055 MANCHESTER TN 37355 Truss: REG
Job: STOCK 40S
Designer:RYAN WATSON
Date: 07/27/23 08:20:58

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
40-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	48 in	247 lbs





0-0	0-0				0-0-0
	8-9-7	7-5-11	7-5-12	7-5-11	8-9-7
	8-9-7	16-3-2	23-8-14	31-2-9	40-0-0

All plates shown to be Eagle 20 unless otherwise noted.

0.72 (8-9) Vert TL: 0.61 in L / 776 (12-13) L / 120	BC 2009/		
		Bldg Code:	TCLL: 20
0.88 (15-1) Vert LL: 0.39 in L/999 (12-13) L/180	ΓPI 1-2007		TCDL: 5(rake)
0.49 (6-12) Horz TL: 0.18 in 9	No	Rep Mbr:	BCLL: 0
	125%	Lumber D.O.L.:	BCDL: 5
	No	Rep Mbr : Lumber D.O.L. :	BCLL: 0

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Upli:	ft Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	3.02 in	2,557 lbs		-631 lbs	-650 lbs	-650 lbs	29 lbs
9	1	3.5 in	3.02 in	2,557 lbs		-631 lbs	-650 lbs	-650 lbs	•

Material

TC: SYP#1 2 x 6 BC: SYP#1 2 x 6 Web: SYP#2 2 x 4

Bracing

TC: Purlins at 24 "OC, Purlin design by Others. BC: Sheathed or Purlins at 6-8-0, Purlin design by Others.

Loads

1) This truss has been designed for the effects of balanced (12.6 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 05 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Building Category I (I = 0.80), Thermal (Ct = 1.20), DOL = 1.15. Unobstructed slippery surface. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

2) This truss has been designed to account for the effects of ice dams forming at the eaves.

3) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 05 with the following user defined input: 90 mph, Exposure C, Partial, Gable/Hip, Building Category I (I = 0.87), h = 15 ft, Not End Zone Truss, Both end webs considered. DOL = 1.60

4) Unbalanced roof live loads have not been considered.

5) Minimum storage attic loading has not been applied in accordance with IBC 1607.1

6) In accordance with IBC 1607.1, minimum BCLL's do not apply.

7) This truss is designed as an agricultural truss which for the purposes of this program is defined as a structure that represents a low hazard to people and property. See BCSI-10 for installation and temporary bracing.

Member Forces
Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.723	-6,267 lbs		4-5	0.418	-4,579 lbs		6-8	0.545	-5,948 lbs					
	2-4	0.545	-5,948 lbs		5-6	0.418	-4,579 lbs		8-9	0.723	-6,267 lbs					
BC	9-10	0.884	5,857 lbs	(-1,318 lbs)	12-13	0.479	3,647 lbs	(-634 lbs)	15-1	0.884	5,857 lbs	(-1,318 lbs)				
	10-12	0.620	4,768 lbs	(-983 lbs)	13-15	0.620	4,768 lbs	(-983 lbs)								
Web	2-15	0.100	-642 lbs		4-13	0.489	-1,060 lbs		5-12	0.285	1,242 lbs	(-274 lbs)	6-10	0.241	1,070 lbs	(-229 lbs)
	4-15	0.241	1,070 lbs	(-229 lbs)	5-13	0.285	1,242 lbs	(-274 lbs)	6-12	0.489	-1,060 lbs		8-10	0.100	-642 lbs	- 1

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TCDL 5 psf.
- 3) Building Designer shall verify self weight of the truss and other dead load materials do not exceed BCDL 5 psf.



2425 MCMINNVILLE HWY PHONE: (931)-616-0055 MANCHESTER TN 37355

Truss: REG STOCK 40S Designer:RYAN WATSON Date: 07/27/23 08:20:58

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SPAN PITCH QTY OHL OHR CANT L CANT R PLYS SPACING WGT/PLY 40-0-0 4/12 1-4-0 1-4-0 0-0-0 247 lbs 0 - 0 - 048 in

- 4) Design assumes minimum 2x_(vertical orientation, visually graded) purlins attached to the TC at purlin spacing shown with at least 2-10d nails.

- 7) Design assume similar 2. (with a or that a state of the 10 as plants spacing shown with a state of the 10 as plants spacing shown with a state of the 10 as plants spacing shown is for illustration purposes only and may be placed on either edge of truss member.

 7) A creep factor of 1.00 has been applied for this truss analysis.

 8) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 9) Listed wind uplift reactions based on MWFRS & C&C loading.