

Horizontal Truss Group Loads

Group	Load	Percent	Remark
1	DL	1.00	
2	DL+WR	1.33	
3	DL+WR+SW	1.33	Minimum Pz = 25.0 psf

Horizontal Overhead Truss Analysis

Location	Moment (kip-ft)			Shear (kip)			Axial (kip)			
	DL	DL+WR	DL+WR+SW	DL	DL+WR	DL+WR+SW	DL	DL+WR	DL+WR+SW	
Left Support	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.73	1.79	0.00
Left Splice	36.22	22.23	0.00	0.00	119.56	119.56	0.00	0.00	0.00	0.14
Midspan	36.22	22.23	0.00	0.00	119.56	119.56	0.00	-0.80	0.80	-0.14
Sign 1	36.37	22.39	0.00	0.00	120.58	120.58	0.00	2.14	3.14	0.48
Sign 2	29.11	18.23	0.00	0.00	100.48	100.48	0.00	2.77	5.77	1.47
Sign 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.42
Right Splice	-0.01	-0.01	0.00	0.00	-0.00	-0.00	0.00	6.81	6.81	2.12
Right Support	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.81	2.11	1.27

GROUP LOAD COMBINATIONS

Location	Section	Bending About Horizontal Axis			Bending About Vertical Axis			SHEAR Horizontal	SHEAR Vertical	Combined Forces		
		Moment	Stress	Force	Moment	Stress	Force			AXIAL (psi)	SHEAR (psi)	
Left Support	0.00	1	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.00	1.79	
Left Splice	31.99	1	36.22	4.47	11.96	0.00	0.00	0.00	0.14	11.96	0.00	
Midspan	31.99	1	36.22	4.47	11.96	0.00	0.00	0.00	-0.14	11.96	0.00	
Sign 1	30.86	1	36.37	4.49	12.02	0.00	0.00	0.00	0.58	12.02	0.00	
Sign 2	47.73	2	29.11	3.59	8.83	0.00	0.00	0.00	1.47	8.83	1.47	
Sign 3	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.42	
Right Splice	63.97	1	-0.01	0.00	0.00	0.00	0.00	0.00	2.12	0.00	2.12	
Right Support	63.97	2	0.00	0.00	0.00	0.00	0.00	2.11	0.00	0.00	2.11	

Location	Section	Monotube Forces					
		Moment	Shear	Force	Moment	Shear	Force
Left Support	0.00	1	0.00	0.00	0.00	0.00	0.00
Left Splice	31.99	1	36.22	4.47	11.96	0.00	0.00
Midspan	31.99	1	36.22	4.47	11.96	0.00	0.00
Sign 1	30.86	1	36.37	4.49	12.02	0.00	0.00
Sign 2	47.73	2	29.11	3.59	8.83	0.00	0.00
Sign 3	0.00	1	0.00	0.00	0.00	0.00	0.00
Right Splice	63.97	1	-0.01	0.00	0.00	0.00	0.00
Right Support	63.97	2	0.00	0.00	0.00	0.00	0.00

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Right Support	63.97	2	0.00	0.00	0.00

For Monotube Design Only - Section 1
 For Monotube Design Only - Section 2

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