

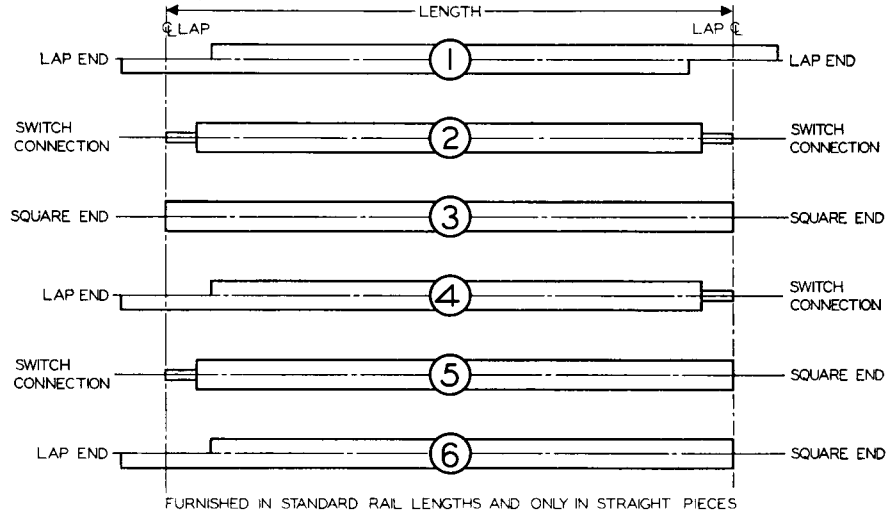
Truss and Girder Rail

The general description of Truss and Girder Rail in Catalog E-1 is supplemented on this and the following two pages with load tables and other information of value in making layouts.

Truss and Girder Rails are furnished in straight sections only. Length of sections and width of top flange must be specified when ordering. Outlines to the right show the assemblies available for various track connections. They should be designated by the number given for convenience in

specification. When furnished for overlapping splice, sections are measured from center of lap as indicated. Standard and wide flange sizes are interchangeable, the wide flange being stronger and especially adapted to longer spans.

Considerable advantage may be gained by the use of Truss and Girder Rail where the layout will allow continuous beam construction as in crane runways.



Lap splices should be located at the center of support points. Since the method of splicing does give a substantial amount of continuous beam action, the lap splices, in certain instances depending on loads and rail spans, may be located off the support points. Check with the home office for further advice when these situations arise.

Load Table for Standard Truss and Girder Rail

SIMPLE BEAM-LOAD CONCENTRATED IN CENTER

Beam Weight Deducted $f = 20,000$ P. S. I.

No. of Rail	Weight Per Foot	Upper Flange Width	Section Modulus	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
434	12.7	4	Sc = 8.62 St = 6.45	5320	3930	2690	1940	1460	1120											
434	13.5	5	Sc = 10.01 St = 6.58	5430	4320	3580	2860	2150	1670	1310	1040									
411	14.9	5.19	Sc = 11.12 St = 7.11	5870	4670	3860	3290	2490	1920	1520	1220									
411	16.7	6.19	Sc = 12.65 St = 7.24	5970	4750	3930	3330	2890	2520	2100	1690	1370	1120							
417	18.0	6.19	Sc = 17.71 St = 10.59	8750	6970	5770	4910	3740	2920	2300	1850	1500	1240							
417	22.0	7.19	Sc = 22.9 St = 10.97			5960	5070	4390	3860	3440	3080	2790	2470	2060	1740	1475	1245			
424	23.0	7.19	Sc = 30.0 St = 14.73			8040	6850	5950	5250	4680	3880	3200	2670	2230	1880	1590	1340	1120		
424	25.5	8.19	Sc = 32.6 St = 14.85				6890	5990	5270	4690	4220	3820	3340	2810	2380	2020	1715	1460	1235	
431	27.1	8.19	Sc = 43.0 St = 20.2					8200	7240	6430	5240	4320	3610	3030	2570	2185	1860	1580	1340	1135
431	29.1	10.19	Sc = 48.75 St = 20.6							6580	5920	5370	4900	4410	3760	3215	2770	2390	2055	1780

Loads Shown To Right Of Heavy Line Produce Deflection Exceeding 1/450 Of The Corresponding Span. Above Loadings Based On Standards Established By A.I.S.C. Manual 5th Edition.