

STRUCTURAL TRACK SECTION NOTES

Section Property Table Notes

1. Web depth for track sections equals nominal depth plus 2 x design thickness plus bend radius.
2. Hems on non-structural track sections are ignored.
3. Effective properties include the strength increase from cold-work of forming per NASPEC section A7.2 where applicable. Where Allowable Moment, M_a is followed by ^{*/}, a stress increase from cold-work of forming has been applied.
4. For deflection determination, use the effective moment of inertia. Effective moment of inertia is based on Procedure 1 of the NASPEC.
5. Section properties meet the 2009 and 2012 International Building Code.
6. Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.
7. Web-height to thickness ratio exceeds 260. Effective properties not available.

STRUCTURAL TRACK SECTION PROPERTIES

Section	Thickness (in)	Area (in ²)	Weight (lb/ft)	Gross Properties					Effective Properties Fy = 33 ksi					Effective Properties Fy = 50 ksi				Torsional Properties				
				Ixx (in ⁴)	Sxx (in ³)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	MaFy (in-k)	Va (lb)	Ixx (in ⁴)	Sxx (in ³)	MaFy (in-k)	Va (lb)	J (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	β
1400T250-54 ¹	0.0566	1.075	3.66	27.051	3.811	5.017	0.458	0.653	21.342	1.907	37.68	1160	19.421	1.616	48.38	1160	1.148	17.55	-0.954	0.633	5.149	0.966
1400T250-68 ¹	0.0713	1.354	4.61	34.154	4.794	5.023	0.573	0.65	29.615	2.906	57.42	2322	27.352	2.485	74.4	2322	2.294	22.063	-0.949	0.629	5.153	0.966
1400T250-97	0.1017	1.93	6.57	48.939	6.818	5.036	0.803	0.645	47.449	5.386	106.42	6761	44.883	4.708	140.94	6761	6.654	31.333	-0.938	0.622	5.163	0.967
1400T250-118	0.1242	2.356	8.02	59.964	8.308	5.044	0.967	0.641	59.734	7.438	146.99	12344	58.277	6.622	198.25	12344	12.117	38.137	-0.93	0.616	5.169	0.968
1400T300-54 ¹	0.0566	1.131	3.85	29.881	4.209	5.139	0.769	0.825	22.429	1.935	38.24	1160	20.324	1.635	48.96	1160	1.208	28.8	-1.271	0.829	5.358	0.944
1400T300-68	0.0713	1.425	4.85	37.737	5.297	5.146	0.962	0.822	31.291	2.961	58.5	2322	28.775	2.523	75.54	2322	2.415	36.257	-1.265	0.825	5.363	0.944
1400T300-97	0.1017	2.032	6.91	54.105	7.538	5.16	1.353	0.816	50.615	5.54	109.48	6761	47.633	4.815	144.17	6761	7.005	51.644	-1.252	0.817	5.373	0.946
1400T300-118	0.1242	2.481	8.44	66.323	9.189	5.171	1.635	0.812	64.159	7.713	152.42	12344	62.201	6.816	204.06	12344	12.755	62.998	-1.243	0.811	5.38	0.947
1400T400-68	0.0713	1.567	5.33	44.903	6.302	5.352	2.16	1.174	37.078	3.21	63.43	2322	35.376	2.647	79.24	2322	2.656	78.896	-1.957	1.242	5.818	0.887
1400T400-97	0.1017	2.235	7.61	64.437	8.977	5.369	3.049	1.168	55.644	6.656	131.52	6761	54.354	5.437	162.79	6761	7.706	112.783	-1.943	1.233	5.828	0.889
1400T400-118	0.1242	2.729	9.29	79.041	10.951	5.382	3.695	1.164	71.315	8.62	170.34	12344	68.478	8.172	244.66	12344	14.032	137.951	-1.932	1.226	5.835	0.89
1600T125-54 ^{1,2}	0.0566	1.046	3.56	28.485	3.517	5.217	0.062	0.243									1.117	3.432	-0.272	0.191	5.230	0.997
1600T125-68 ¹	0.0713	1.318	4.48	35.916	4.421	5.220	0.077	0.241					31.004	2.651	79.37	2030	2.233	4.273	-0.268	0.189	5.233	0.997
1600T125-97	0.1017	1.879	6.39	51.322	6.276	5.226	0.105	0.237					47.830	4.825	144.47	5908	6.479	5.945	-0.262	0.184	5.238	0.997
1600T125-118	0.1242	2.294	7.81	62.755	7.637	5.230	0.125	0.233					60.930	6.420	192.21	10783	11.797	7.126	-0.257	0.181	5.241	0.998
1600T150-54 ^{1,2}	0.0566	1.075	3.66	30.328	3.745	5.312	0.106	0.314									1.148	5.757	-0.374	0.260	5.335	0.995
1600T150-68 ¹	0.0713	1.354	4.61	38.249	4.708	5.316	0.132	0.312					32.537	2.717	81.34	2030	2.294	7.188	-0.371	0.258	5.338	0.995
1600T150-97	0.1017	1.930	6.57	54.681	6.686	5.323	0.182	0.307					51.382	5.047	151.11	5908	6.654	10.066	-0.363	0.253	5.344	0.995
1600T150-118	0.1242	2.356	8.02	66.886	8.140	5.328	0.217	0.304					65.023	6.911	206.91	10783	12.117	12.124	-0.358	0.249	5.348	0.996
1600T200-54 ^{1,2}	0.0566	1.131	3.85	34.015	4.200	5.483	0.246	0.467									1.208	12.864	-0.612	0.417	5.537	0.988
1600T200-68 ¹	0.0713	1.425	4.85	42.914	5.282	5.488	0.307	0.464					35.009	2.805	83.99	2030	2.415	16.123	-0.607	0.414	5.541	0.988
1600T200-97	0.1017	2.032	6.91	61.398	7.508	5.497	0.428	0.459					57.292	5.298	158.62	5908	7.005	22.755	-0.598	0.408	5.549	0.988
1600T200-118	0.1242	2.481	8.44	75.146	9.145	5.504	0.514	0.455					73.613	7.433	222.53	10783	12.755	27.568	-0.592	0.403	5.554	0.989

See notes located on page 17