

# ICC-ES Evaluation Report

**ESR-2457\***

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**DIVISION: 05 00 00** METALS

**Section: 05 40 00** Cold-Formed Metal Framing

**Section: 05 41 00** Structural Metal Stud Framing

**Section: 05 42 00** Cold-Formed Metal Joist Framing

**DIVISION: 09 00 00** FINISHES

**Section: 09 22 16.13** Non-Structural Metal Stud Framing

**REPORT HOLDER:**
**STEEL FRAMING INDUSTRY ASSOCIATION**

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(703) 538-1601

[www.steel framing association.org](http://www.steel framing association.org)
**ADDITIONAL LISTEE:**
**CLARKDIETRICH** BUILDING SYSTEMS

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**EVALUATION SUBJECT:**
**STANDARD LIGHT-GAUGE STEEL FRAMING MEMBERS**
**1.0 EVALUATION SCOPE**
**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

**Property evaluated:**

Structural

**2.0 USES**

The steel framing members recognized in this report are used for framing of curtain walls, nonload-bearing interior walls, load-bearing walls, floors and roofs.

**3.0 DESCRIPTION**
**3.1 General:**

The framing members described in this report are factory-formed from coils of steel at the manufacturing facilities noted in Table 1.

The standard light-gauge steel framing members include C-sections (studs), tracks, and U-channels. See Tables 3, 4 and 8 and Figure 1 for recognized profiles, section names and design properties. The C-sections (studs) are

manufactured with and without web punch-outs. All other framing members (tracks and U-channels) are manufactured without web punch-outs. When provided, punch-outs have a width between  $\frac{3}{4}$  inch (19 mm) and  $2\frac{1}{2}$  inches (64 mm) but in no case greater than one-half the member web depth ( $d/2$ ); and a length between  $1\frac{1}{2}$  (38 mm) and 4 inches (102 mm). The minimum spacing of punch-outs is 24 inches (610 mm) o.c. and the minimum distance between the end of the stud and the near edge of the web punch-out is 10 inches (254 mm). See Figure 2 for punch-out details. The values for studs in each of the tables in this report are for studs with punch-outs unless otherwise noted.

**3.2 Material:**

The framing members are cold-formed from steel coils complying with ASTM A1003 Structural Grade 50 Type H (ST50H), ASTM A1003 Structural Grade 33 Type H (ST33H) or ASTM A1003 Nonstructural Grade 33 (NS33). The coating is minimum G60, A60, AZ50, GF30, T1-25, T2-100 for ST50H and ST33H steel, and G40, A40, AZ50, GF30, T1-25, or T2-100 for NS33 steel in accordance with ASTM A1003-10. The base-metal thickness is specified in Tables 2 through 4.

**4.0 DESIGN AND INSTALLATION**
**4.1 Design:**

**4.1.1 General:** The section properties indicated in Tables 3B, 4B, and 8 have been determined in accordance with the North American Specification for Design of Cold-formed Steel Structural Members, including 2004 Supplement (AISI-NAS). The allowable moments,  $M_a$ , are for use with Allowable Stress Design (ASD), and are for flexural members installed with the compression flange continuously braced. For other conditions of compression flange bracing, the allowable moment must be determined in accordance with AISI-NAS. Allowable concentrated loads and reactions based on web crippling are shown in Tables 6 and 7. The design of flexural members must address combined bending and web crippling, and combined bending and shear, as applicable, in accordance with the AISI-NAS. As an alternate, nonload-bearing wall heights may be determined in accordance with Section 4.1.2.

**4.1.2 Exterior Nonload-bearing Wall Heights:**

Allowable wall heights for exterior nonload-bearing walls are shown in Table 5. The allowable wall heights are based on the compression flange being continuously braced. The end reactions of the studs due to the applied transverse loads must not exceed the allowable loads based on web crippling.

\*Revised March 2012

**4.1.3 Ceiling Spans:** Allowable ceiling spans for U channels are shown in Table 8. The allowable spans are based on the compression flange being continuously braced.

**4.1.4 IRC:** C-sections (studs) listed in Table 9 and all tracks (except for the 162T100 series of tracks), when formed from ASTM A1003 ST33H or ASTM A1003 ST50H steel, meet the prescriptive requirements of the IRC. For use of all other sections under the IRC, the framing members must be limited to engineered structures, in accordance with IRC Section R301.1.3.

#### **4.2 Installation:**

The framing members must be installed in accordance with the code, the approved construction documents and this report. If there is a conflict between the construction documents submitted for approval and this report, this report governs. The approved construction documents must be available on the jobsite at all times during installation. Use of framing members designated as ASTM A1003 NS33 is limited to interior nonload-bearing walls with transverse loads of 5 psf (239 Pa) or less.

### **5.0 CONDITIONS OF USE**

The steel framing members described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The cold-formed steel framing members are installed in accordance with the code, the approved construction documents and this report.
- 5.2** Minimum uncoated base-metal thickness of the cold-formed steel members as delivered to the jobsite is at least 95 percent of the design base-metal thickness noted in Tables 3 and 4.

**5.3** Complete construction documents and calculations verifying compliance with this report must be submitted to the code official for each project at the time of permit application. The calculations and drawings must be prepared and sealed by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

**5.4** Cold-formed steel framing member end reactions resulting from allowable heights and loads, as noted in the tables of this report, must be less than the web crippling loads indicated in the tables.

**5.5** No holes or punch-outs are permitted in the web of members with an  $h/t$  greater than 200.

**5.6** Studs and tracks formed from steel complying with ASTM A1003 NS33 must be limited to use as nonload-bearing interior wall framing subject to a maximum transverse load of 5 psf (239 Pa).

### **6.0 EVIDENCE SUBMITTED**

Data in accordance with ICC-ES Acceptance Criteria for Cold-formed Steel Framing Members (AC46), dated February 2011.

### **7.0 IDENTIFICATION**

At a spacing not exceeding 48 inches (1219 mm) on center, each light-gauge steel framing member is stamped with the SFIA member name or initials; the section name; the evaluation report number (ICC-ES ESR-2457); the minimum uncoated base-metal thickness in decimal inches or mils; the metallic coating designation; and the specified yield strength. Skids are also labeled with the plant number.

**TABLE 1 □ MANUFACTURING LOCATIONS**

Plant No. 06 ClarkDietrich □ □ Dallas Dallas, Texas 75220 214-350-1716	Plant No. 18 ClarkDietrich □ □ Bristol Bristol, Connecticut 06010 (866) 921-0023	Plant No. 60 ClarkDietrich □ □ Baytown Baytown, Texas 77520 (281) 383-1617	Plant No. 63 ClarkDietrich □ □ McDonough McDonough, Georgia 30253 (678) 304-5500
Plant No. 09 ClarkDietrich □ □ Baltimore Baltimore, Maryland 21219 410-477-4000	Plant No. 50 Clark Dietrich □ □ Riverside Riverside, California 92509 951-360-3500	Plant No. 61 ClarkDietrich □ □ Hawaii Kapolei, Hawaii 96707 (808) 682-5747	Plant No. 64 ClarkDietrich □ □ Warren East Warren, Ohio 44483 (330) 372-5564
Plant No. 15 ClarkDietrich □ □ Rochelle Rochelle, Illinois 61068 (800) 659-0745	Plant No. 51 ClarkDietrich □ □ Woodland Woodland, California 95776 (530) 668-1987	Plant No.62 ClarkDietrich □ □ Lenexa Lenexa, Kansas 66219 (913) 599-2026	Plant No. 65 ClarkDietrich □ □ Warren West Warren, Ohio 44483 (330) 372-4014
Plant No. 17 ClarkDietrich □ □ Dade City Dade City, Florida 33523 352-518-4400			

**TABLE 2 □ MATERIAL THICKNESSES**

<b>THICKNESS DESIGNATION (mils)</b>	<b>DESIGN THICKNESS (in)</b>	<b>MINIMUM BASE-METAL THICKNESS<sup>1</sup> (in)</b>
18	0.0188	0.0179
22	0.0232	0.0220
26	0.0274	0.0260
27	0.0283	0.0269
30	0.0312	0.0296
33	0.0346	0.0329
43	0.0451	0.0428
54	0.0566	0.0538
68	0.0713	0.0677
97	0.1017	0.0966
118	0.1242	0.1180

For **SI**: 1 inch = 25.4 mm.<sup>1</sup>Minimum base-metal thickness represents 95 percent of the design thickness and is the minimum acceptable thickness of the uncoated base-metal delivered to the jobsite.

TABLE 3A ■ STANDARD C-SECTIONS

MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)							AREA (in <sup>2</sup> )	WEIGHT (lb/ft)				
162S125-18	0.0188	0.080	0.27	1.625	1.250	0.188	0.0843	362S200-30	0.0312	0.260	0.89	3.625	2.000	0.625	0.0781
162S125-27	0.0283	0.120	0.41	1.625	1.250	0.188	0.0796	362S200-33	0.0346	0.297	1.01	3.625	2.000	0.625	0.0764
162S125-30	0.0312	0.131	0.45	1.625	1.250	0.188	0.0781	362S200-43	0.0451	0.385	1.31	3.625	2.000	0.625	0.0712
250S125-18	0.0188	0.097	0.33	2.500	1.250	0.188	0.0843	362S200-54	0.0566	0.479	1.63	3.625	2.000	0.625	0.0849
250S125-27	0.0283	0.144	0.49	2.500	1.250	0.188	0.0796	362S200-68	0.0713	0.595	2.02	3.625	2.000	0.625	0.1069
250S125-30	0.0312	0.159	0.54	2.500	1.250	0.188	0.0781	362S200-97	0.1017	0.826	2.81	3.625	2.000	0.625	0.1525
250S125-33	0.0346	0.176	0.60	2.500	1.250	0.188	0.0764	362S200-118	0.1242	0.988	3.36	3.625	2.000	0.625	0.1863
250S125-43	0.0451	0.227	0.77	2.500	1.250	0.188	0.0712	362S250-43	0.0451	0.430	1.46	3.625	2.500	0.625	0.0712
250S125-54	0.0566	0.280	0.95	2.500	1.250	0.188	0.0849	362S250-54	0.0566	0.535	1.82	3.625	2.500	0.625	0.0849
250S125-68	0.0713	0.345	1.18	2.500	1.250	0.188	0.1069	362S250-68	0.0713	0.666	2.27	3.625	2.500	0.625	0.1069
250S162-27	0.0283	0.176	0.60	2.500	1.625	0.500	0.0796	362S250-97	0.1017	0.927	3.16	3.625	2.500	0.625	0.1525
250S162-30	0.0312	0.194	0.66	2.500	1.625	0.500	0.0781	362S250-118	0.1242	1.112	3.78	3.625	2.500	0.625	0.1863
250S162-33	0.0346	0.223	0.76	2.500	1.625	0.500	0.0764	362S300-54	0.0566	0.634	2.16	3.625	3.000	0.625	0.0849
250S162-43	0.0451	0.289	0.98	2.500	1.625	0.500	0.0712	362S300-68	0.0713	0.791	2.69	3.625	3.000	0.625	0.1069
250S162-54	0.0566	0.358	1.22	2.500	1.625	0.500	0.0849	362S300-97	0.1017	1.105	3.76	3.625	3.000	0.625	0.1525
250S162-68	0.0713	0.443	1.51	2.500	1.625	0.500	0.1069	362S300-118	0.1242	1.329	4.52	3.625	3.000	0.625	0.1863
350S162-33	0.0346	0.258	0.88	3.500	1.625	0.500	0.0764	400S125-18 <sup>1</sup>	0.0188	0.125	0.42	4.000	1.250	0.188	0.0188
350S162-43	0.0451	0.334	1.14	3.500	1.625	0.500	0.0712	400S125-27	0.0283	0.187	0.64	4.000	1.250	0.188	0.0796
350S162-54	0.0566	0.415	1.41	3.500	1.625	0.500	0.0849	400S125-30	0.0312	0.206	0.70	4.000	1.250	0.188	0.0781
350S162-68	0.0713	0.515	1.75	3.500	1.625	0.500	0.1069	400S125-33	0.0346	0.228	0.77	4.000	1.250	0.188	0.0764
362S125-18	0.0188	0.118	0.40	3.625	1.250	0.188	0.0843	400S125-43	0.0451	0.295	1.00	4.000	1.250	0.188	0.0712
362S125-27	0.0283	0.176	0.60	3.625	1.250	0.188	0.0796	400S125-54	0.0566	0.365	1.24	4.000	1.250	0.188	0.0849
362S125-30	0.0312	0.194	0.66	3.625	1.250	0.188	0.0781	400S125-68	0.0713	0.452	1.54	4.000	1.250	0.188	0.1069
362S125-33	0.0346	0.215	0.73	3.625	1.250	0.188	0.0764	400S125-97	0.1017	0.452	1.54	4.000	1.250	0.188	0.1525
362S125-43	0.0451	0.278	0.95	3.625	1.250	0.188	0.0712	400S137-27	0.0283	0.204	0.70	4.000	1.375	0.375	0.0796
362S125-54	0.0566	0.344	1.17	3.625	1.250	0.188	0.0849	400S137-30	0.0312	0.225	0.77	4.000	1.375	0.375	0.0781
362S125-68	0.0713	0.426	1.45	3.625	1.250	0.188	0.1069	400S137-33	0.0346	0.249	0.85	4.000	1.375	0.375	0.0764
362S125-97	0.1017	0.426	1.45	3.625	1.250	0.188	0.1525	400S137-43	0.0451	0.323	1.10	4.000	1.375	0.375	0.0712
362S125-118	0.1242	0.426	1.45	3.625	1.250	0.188	0.1863	400S137-54	0.0566	0.401	1.36	4.000	1.375	0.375	0.0849
362S137-27	0.0283	0.194	0.66	3.625	1.375	0.375	0.0796	400S137-68	0.0713	0.497	1.69	4.000	1.375	0.375	0.1069
362S137-30	0.0312	0.213	0.73	3.625	1.375	0.375	0.0781	400S137-97	0.1017	0.686	2.33	4.000	1.375	0.375	0.1525
362S137-33	0.0346	0.236	0.80	3.625	1.375	0.375	0.0764	400S162-27	0.0283	0.219	0.74	4.000	1.625	0.500	0.0796
362S137-43	0.0451	0.306	1.04	3.625	1.375	0.375	0.0712	400S162-30	0.0312	0.241	0.82	4.000	1.625	0.500	0.0781
362S137-54	0.0566	0.379	1.29	3.625	1.375	0.375	0.0849	400S162-33	0.0346	0.275	0.94	4.000	1.625	0.500	0.0764
362S137-68	0.0713	0.470	1.60	3.625	1.375	0.375	0.1069	400S162-43	0.0451	0.357	1.21	4.000	1.625	0.500	0.0712
362S137-97	0.1017	0.648	2.20	3.625	1.375	0.375	0.1525	400S162-54	0.0566	0.443	1.51	4.000	1.625	0.500	0.0849
362S137-118	0.1242	0.770	2.62	3.625	1.375	0.375	0.1863	400S162-68	0.0713	0.550	1.87	4.000	1.625	0.500	0.1069
362S162-27	0.0283	0.208	0.71	3.625	1.625	0.500	0.0796	400S162-97	0.1017	0.762	2.59	4.000	1.625	0.500	0.1525
362S162-30	0.0312	0.229	0.78	3.625	1.625	0.500	0.0781	400S200-30	0.0312	0.272	0.93	4.000	2.000	0.625	0.0781
362S162-33	0.0346	0.262	0.89	3.625	1.625	0.500	0.0764	400S200-33	0.0346	0.310	1.05	4.000	2.000	0.625	0.0764
362S162-43	0.0451	0.340	1.16	3.625	1.625	0.500	0.0712	400S200-43	0.0451	0.402	1.37	4.000	2.000	0.625	0.0712
362S162-54	0.0566	0.422	1.44	3.625	1.625	0.500	0.0849	400S200-54	0.0566	0.500	1.70	4.000	2.000	0.625	0.0849
362S162-68	0.0713	0.524	1.78	3.625	1.625	0.500	0.1069	400S200-68	0.0713	0.622	2.12	4.000	2.000	0.625	0.1069
362S162-97	0.1017	0.724	2.46	3.625	1.625	0.500	0.1525	400S200-97	0.1017	0.864	2.94	4.000	2.000	0.625	0.1525
362S162-118	0.1242	0.863	2.94	3.625	1.625	0.500	0.1863								

For SI: 1 inch = 25.4 mm.

TABLE 3A □ STANDARD C-SECTIONS (Continued)

MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)							AREA (in <sup>2</sup> )	WEIGHT (lb/ft)				
400S250-43	0.0451	0.447	1.52	4.000	2.500	0.625	0.0712	600S200-30	0.0312	0.334	1.14	6.000	2.000	0.625	0.0781
400S250-54	0.0566	0.556	1.89	4.000	2.500	0.625	0.0849	600S200-33	0.0346	0.379	1.29	6.000	2.000	0.625	0.0764
400S250-68	0.0713	0.693	2.36	4.000	2.500	0.625	0.1069	600S200-43	0.0451	0.492	1.67	6.000	2.000	0.625	0.0712
400S250-97	0.1017	0.966	3.29	4.000	2.500	0.625	0.1525	600S200-54	0.0566	0.613	2.09	6.000	2.000	0.625	0.0849
400S300-54	0.0566	0.655	2.23	4.000	3.000	0.625	0.0849	600S200-68	0.0713	0.764	2.60	6.000	2.000	0.625	0.1069
400S300-68	0.0713	0.818	2.78	4.000	3.000	0.625	0.1069	600S200-97	0.1017	1.067	3.63	6.000	2.000	0.625	0.1525
400S300-97	0.1017	1.144	3.89	4.000	3.000	0.625	0.1525	600S200-118	0.1242	1.283	4.36	6.000	2.000	0.625	0.1863
550S162-33	0.0346	0.327	1.11	5.500	1.625	0.500	0.0764	600S250-43	0.0451	0.537	1.83	6.000	2.500	0.625	0.0712
550S162-43	0.0451	0.424	1.44	5.500	1.625	0.500	0.0712	600S250-54	0.0566	0.670	2.28	6.000	2.500	0.625	0.0849
550S162-54	0.0566	0.528	1.80	5.500	1.625	0.500	0.0849	600S250-68	0.0713	0.836	2.84	6.000	2.500	0.625	0.1069
550S162-68	0.0713	0.657	2.24	5.500	1.625	0.500	0.1069	600S250-97	0.1017	1.169	3.98	6.000	2.500	0.625	0.1525
550S162-97	0.1017	0.915	3.11	5.500	1.625	0.500	0.1525	600S250-118	0.1242	1.407	4.79	6.000	2.500	0.625	0.1863
550S200-33	0.0346	0.362	1.23	5.500	2.000	0.625	0.0764	600S300-54	0.0566	0.769	2.62	6.000	3.000	0.625	0.0849
550S200-43	0.0451	0.469	1.60	5.500	2.000	0.625	0.0712	600S300-68	0.0713	0.960	3.27	6.000	3.000	0.625	0.1069
550S200-54	0.0566	0.585	1.99	5.500	2.000	0.625	0.0849	600S300-97	0.1017	1.347	4.58	6.000	3.000	0.625	0.1525
550S200-68	0.0713	0.729	2.48	5.500	2.000	0.625	0.1069	600S300-118	0.1242	1.624	5.53	6.000	3.000	0.625	0.1863
550S200-97	0.1017	1.016	3.46	5.500	2.000	0.625	0.1525	600S350-54	0.0566	0.825	2.81	6.000	3.500	1.000	0.0849
550S250-43	0.0451	0.515	1.75	5.500	2.500	0.625	0.0712	600S350-68	0.0713	1.032	3.51	6.000	3.500	1.000	0.1069
550S250-54	0.0566	0.641	2.18	5.500	2.500	0.625	0.0849	600S350-97	0.1017	1.449	4.93	6.000	3.500	1.000	0.1525
550S250-68	0.0713	0.800	2.72	5.500	2.500	0.625	0.1069	600S350-118	0.1242	1.748	5.95	6.000	3.500	1.000	0.1863
550S250-97	0.1017	1.118	3.80	5.500	2.500	0.625	0.1525	725S162-33'	0.0346	0.388	1.32	7.250	1.625	0.500	0.0764
600S125-18'	0.0188	0.162	0.55	6.000	1.250	0.188	0.0843	725S162-43	0.0451	0.503	1.71	7.250	1.625	0.500	0.0712
600S125-27'	0.0283	0.243	0.83	6.000	1.250	0.188	0.0796	725S162-54	0.0566	0.627	2.13	7.250	1.625	0.500	0.0849
600S125-30	0.0312	0.268	0.91	6.000	1.250	0.188	0.0781	725S162-68	0.0713	0.782	2.66	7.250	1.625	0.500	0.1069
600S125-33	0.0346	0.297	1.01	6.000	1.250	0.188	0.0764	725S162-97	0.1017	1.093	3.72	7.250	1.625	0.500	0.1525
600S125-43	0.0451	0.385	1.31	6.000	1.250	0.188	0.0712	725S200-33'	0.0346	0.422	1.44	7.250	2.000	0.625	0.0764
600S125-54	0.0566	0.479	1.63	6.000	1.250	0.188	0.0849	725S200-43	0.0451	0.548	1.87	7.250	2.000	0.625	0.0712
600S125-68	0.0713	0.595	2.02	6.000	1.250	0.188	0.1069	725S200-54	0.0566	0.684	2.33	7.250	2.000	0.625	0.0849
600S125-97	0.1017	0.595	2.02	6.000	1.250	0.188	0.1525	725S200-68	0.0713	0.853	2.90	7.250	2.000	0.625	0.1069
600S125-118	0.1242	0.595	2.02	6.000	1.250	0.188	0.1863	725S200-97	0.1017	1.194	4.06	7.250	2.000	0.625	0.1525
600S137-27'	0.0283	0.261	0.89	6.000	1.375	0.375	0.0796	725S250-43	0.0451	0.593	2.02	7.250	2.500	0.625	0.0712
600S137-30	0.0312	0.287	0.98	6.000	1.375	0.375	0.0781	725S250-54	0.0566	0.740	2.52	7.250	2.500	0.625	0.0849
600S137-33	0.0346	0.318	1.08	6.000	1.375	0.375	0.0764	725S250-68	0.0713	0.925	3.15	7.250	2.500	0.625	0.1069
600S137-43	0.0451	0.413	1.41	6.000	1.375	0.375	0.0712	725S250-97	0.1017	1.296	4.41	7.250	2.500	0.625	0.1525
600S137-54	0.0566	0.514	1.75	6.000	1.375	0.375	0.0849	800S137-33'	0.0346	0.388	1.32	8.000	1.375	0.375	0.0764
600S137-68	0.0713	0.640	2.18	6.000	1.375	0.375	0.1069	800S137-43	0.0451	0.503	1.71	8.000	1.375	0.375	0.0712
600S137-97	0.1017	0.889	3.03	6.000	1.375	0.375	0.1525	800S137-54	0.0566	0.627	2.13	8.000	1.375	0.375	0.0849
600S137-118	0.1242	1.065	3.62	6.000	1.375	0.375	0.1863	800S137-68	0.0713	0.782	2.66	8.000	1.375	0.375	0.1069
600S162-27'	0.0283	0.275	0.94	6.000	1.625	0.500	0.0796	800S137-97	0.1017	1.093	3.72	8.000	1.375	0.375	0.1525
600S162-30	0.0312	0.303	1.03	6.000	1.625	0.500	0.0781	800S137-118	0.1242	1.314	4.47	8.000	1.375	0.375	0.1863
600S162-33	0.0346	0.344	1.17	6.000	1.625	0.500	0.0764	800S162-33'	0.0346	0.413	1.41	8.000	1.625	0.500	0.0764
600S162-43	0.0451	0.447	1.52	6.000	1.625	0.500	0.0712	800S162-43	0.0451	0.537	1.83	8.000	1.625	0.500	0.0712
600S162-54	0.0566	0.556	1.89	6.000	1.625	0.500	0.0849	800S162-54	0.0566	0.670	2.28	8.000	1.625	0.500	0.0849
600S162-68	0.0713	0.693	2.36	6.000	1.625	0.500	0.1069	800S162-68	0.0713	0.836	2.84	8.000	1.625	0.500	0.1069
600S162-97	0.1017	0.966	3.29	6.000	1.625	0.500	0.1525	800S162-97	0.1017	1.169	3.98	8.000	1.625	0.500	0.1525
600S162-118	0.1242	1.158	3.94	6.000	1.625	0.500	0.1863	800S162-118	0.1242	1.407	4.79	8.000	1.625	0.500	0.1863

For SI: 1 Inch = 25.4 mm.

TABLE 3A □ STANDARD C-SECTIONS (Continued)

MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)							AREA (in <sup>2</sup> )	WEIGHT (lb/ft)				
800S200-33'	0.0346	0.448	1.52	8.000	2.000	0.625	0.0764	1000S300-54	0.0566	0.995	3.39	10.000	3.000	0.625	0.0849
800S200-43	0.0451	0.582	1.98	8.000	2.000	0.625	0.0712	1000S300-68	0.0713	1.246	4.24	10.000	3.000	0.625	0.1069
800S200-54	0.0566	0.726	2.47	8.000	2.000	0.625	0.0849	1000S300-97	0.1017	1.754	5.97	10.000	3.000	0.625	0.1525
800S200-68	0.0713	0.907	3.09	8.000	2.000	0.625	0.1069	1000S300-118	0.1242	2.121	7.22	10.000	3.000	0.625	0.1863
800S200-97	0.1017	1.271	4.32	8.000	2.000	0.625	0.1525	1000S350-54	0.0566	1.052	3.58	10.000	3.500	1.000	0.0849
800S200-118	0.1242	1.531	5.21	8.000	2.000	0.625	0.1863	1000S350-68	0.0713	1.317	4.48	10.000	3.500	1.000	0.1069
800S250-43	0.0451	0.627	2.13	8.000	2.500	0.625	0.0712	1000S350-97	0.1017	1.855	6.31	10.000	3.500	1.000	0.1525
800S250-54	0.0566	0.783	2.66	8.000	2.500	0.625	0.0849	1000S350-118	0.1242	2.245	7.64	10.000	3.500	1.000	0.1863
800S250-68	0.0713	0.978	3.33	8.000	2.500	0.625	0.1069	1150S162-43'	0.0451	0.695	2.36	11.500	1.625	0.500	0.0712
800S250-97	0.1017	1.372	4.67	8.000	2.500	0.625	0.1525	1150S162-54	0.0566	0.868	2.95	11.500	1.625	0.500	0.0849
800S250-118	0.1242	1.655	5.63	8.000	2.500	0.625	0.1863	1150S162-68	0.0713	1.085	3.69	11.500	1.625	0.500	0.1069
800S300-54	0.0566	0.882	3.00	8.000	3.000	0.625	0.0849	1150S162-97	0.1017	1.525	5.19	11.500	1.625	0.500	0.1525
800S300-68	0.0713	1.103	3.75	8.000	3.000	0.625	0.1069	1150S200-43'	0.0451	0.740	2.52	11.500	2.000	0.625	0.0712
800S300-97	0.1017	1.550	5.28	8.000	3.000	0.625	0.1525	1150S200-54	0.0566	0.924	3.14	11.500	2.000	0.625	0.0849
800S300-118	0.1242	1.873	6.37	8.000	3.000	0.625	0.1863	1150S200-68	0.0713	1.156	3.94	11.500	2.000	0.625	0.1069
800S350-54	0.0566	0.938	3.19	8.000	3.500	1.000	0.0849	1150S200-97	0.1017	1.627	5.53	11.500	2.000	0.625	0.1525
800S350-68	0.0713	1.174	4.00	8.000	3.500	1.000	0.1069	1150S250-43'	0.0451	0.785	2.67	11.500	2.500	0.625	0.0712
800S350-97	0.1017	1.652	5.62	8.000	3.500	1.000	0.1525	1150S250-54	0.0566	0.981	3.34	11.500	2.500	0.625	0.0849
800S350-118	0.1242	1.997	6.79	8.000	3.500	1.000	0.1863	1150S250-68	0.0713	1.228	4.18	11.500	2.500	0.625	0.1069
925S162-43	0.0451	0.593	2.02	9.250	1.625	0.500	0.0712	1150S250-97	0.1017	1.728	5.88	11.500	2.500	0.625	0.1525
925S162-54	0.0566	0.740	2.52	9.250	1.625	0.500	0.0849	1200S162-54'	0.0566	0.896	3.05	12.000	1.625	0.500	0.0849
925S162-68	0.0713	0.925	3.15	9.250	1.625	0.500	0.1069	1200S162-68	0.0713	1.121	3.81	12.000	1.625	0.500	0.1069
925S162-97	0.1017	1.296	4.41	9.250	1.625	0.500	0.1525	1200S162-97	0.1017	1.576	5.36	12.000	1.625	0.500	0.1525
925S200-43	0.0451	0.639	2.17	9.250	2.000	0.625	0.0712	1200S162-118	0.1242	1.904	6.48	12.000	1.625	0.500	0.1863
925S200-54	0.0566	0.797	2.71	9.250	2.000	0.625	0.0849	1200S200-54'	0.0566	0.953	3.24	12.000	2.000	0.625	0.0849
925S200-68	0.0713	0.996	3.39	9.250	2.000	0.625	0.1069	1200S200-68	0.0713	1.192	4.06	12.000	2.000	0.625	0.1069
925S200-97	0.1017	1.398	4.76	9.250	2.000	0.625	0.1525	1200S200-97	0.1017	1.677	5.71	12.000	2.000	0.625	0.1525
925S250-43	0.0451	0.684	2.33	9.250	2.500	0.625	0.0712	1200S200-118	0.1242	2.028	6.90	12.000	2.000	0.625	0.1863
925S250-54	0.0566	0.853	2.90	9.250	2.500	0.625	0.0849	1200S250-54'	0.0566	1.009	3.43	12.000	2.500	0.625	0.0849
925S250-68	0.0713	1.067	3.63	9.250	2.500	0.625	0.1069	1200S250-68	0.0713	1.263	4.30	12.000	2.500	0.625	0.1069
925S250-97	0.1017	1.499	5.10	9.250	2.500	0.625	0.1525	1200S250-97	0.1017	1.779	6.05	12.000	2.500	0.625	0.1525
1000S162-43'	0.0451	0.627	2.13	10.000	1.625	0.500	0.0712	1200S250-118	0.1242	2.152	7.32	12.000	2.500	0.625	0.1863
1000S162-54	0.0566	0.783	2.66	10.000	1.625	0.500	0.0849	1200S300-54'	0.0566	1.108	3.77	12.000	3.000	0.625	0.0849
1000S162-68	0.0713	0.978	3.33	10.000	1.625	0.500	0.1069	1200S300-68	0.0713	1.388	4.72	12.000	3.000	0.625	0.1069
1000S162-97	0.1017	1.372	4.67	10.000	1.625	0.500	0.1525	1200S300-97	0.1017	1.957	6.66	12.000	3.000	0.625	0.1525
1000S162-118	0.1242	1.655	5.63	10.000	1.625	0.500	0.1863	1200S300-118	0.1242	2.369	8.06	12.000	3.000	0.625	0.1863
1000S200-43'	0.0451	0.672	2.29	10.000	2.000	0.625	0.0712	1200S350-54'	0.0566	1.165	3.96	12.000	3.500	1.000	0.0849
1000S200-54	0.0566	0.839	2.86	10.000	2.000	0.625	0.0849	1200S350-68	0.0713	1.460	4.97	12.000	3.500	1.000	0.1069
1000S200-68	0.0713	1.050	3.57	10.000	2.000	0.625	0.1069	1200S350-97	0.1017	2.059	7.01	12.000	3.500	1.000	0.1525
1000S200-97	0.1017	1.474	5.02	10.000	2.000	0.625	0.1525	1200S350-118	0.1242	2.494	8.48	12.000	3.500	1.000	0.1863
1000S200-118	0.1242	1.779	6.05	10.000	2.000	0.625	0.1863	1350S162-54'	0.0566	0.981	3.34	13.500	1.625	0.500	0.0849
1000S250-43'	0.0451	0.717	2.44	10.000	2.500	0.625	0.0712	1350S162-68	0.0713	1.228	4.18	13.500	1.625	0.500	0.1069
1000S250-54	0.0566	0.896	3.05	10.000	2.500	0.625	0.0849	1350S162-97	0.1017	1.728	5.88	13.500	1.625	0.500	0.1525
1000S250-68	0.0713	1.121	3.81	10.000	2.500	0.625	0.1069	1350S162-118	0.1242	2.090	7.11	13.500	1.625	0.500	0.1863
1000S250-97	0.1017	1.576	5.36	10.000	2.500	0.625	0.1525								
1000S250-118	0.1242	1.904	6.48	10.000	2.500	0.625	0.1863								

For SI: 1 Inch = 25.4 mm.

TABLE 3A □ STANDARD C-SECTIONS (Continued)

MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICK. (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	LIP LENGTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)							AREA (in <sup>2</sup> )	WEIGHT (lb/ft)				
1350S200-54 <sup>1</sup>	0.0566	1.037	3.53	13.500	2.000	0.625	0.0849	1400S300-54 <sup>1</sup>	0.0566	1.221	4.16	14.000	3.000	0.625	0.0849
1350S200-68	0.0713	1.299	4.42	13.500	2.000	0.625	0.1069	1400S300-68	0.0713	1.531	5.21	14.000	3.000	0.625	0.1069
1350S200-97	0.1017	1.830	6.23	13.500	2.000	0.625	0.1525	1400S300-97	0.1017	2.161	7.35	14.000	3.000	0.625	0.1525
1350S200-118	0.1242	2.214	7.53	13.500	2.000	0.625	0.1863	1400S300-118	0.1242	2.618	8.91	14.000	3.000	0.625	0.1863
1350S250-54 <sup>1</sup>	0.0566	1.094	3.72	13.500	2.500	0.625	0.0849	1400S350-54 <sup>1</sup>	0.0566	1.278	4.35	14.000	3.500	1.000	0.0849
1350S250-68	0.0713	1.370	4.66	13.500	2.500	0.625	0.1069	1400S350-68	0.0713	1.602	5.45	14.000	3.500	1.000	0.1069
1350S250-97	0.1017	1.932	6.57	13.500	2.500	0.625	0.1525	1400S350-97	0.1017	2.262	7.70	14.000	3.500	1.000	0.1525
1350S250-118	0.1242	2.338	7.96	13.500	2.500	0.625	0.1863	1400S350-118	0.1242	2.742	9.33	14.000	3.500	1.000	0.1863
1350S300-54 <sup>1</sup>	0.0566	1.193	4.06	13.500	3.000	0.625	0.0849	1600S162-54 <sup>1</sup>	0.0566	1.122	3.82	16.000	1.625	0.500	0.0849
1350S300-68	0.0713	1.495	5.09	13.500	3.000	0.625	0.1069	1600S162-68 <sup>1</sup>	0.0713	1.406	4.78	16.000	1.625	0.500	0.1069
1350S300-97	0.1017	2.110	7.18	13.500	3.000	0.625	0.1525	1600S162-97	0.1017	1.983	6.75	16.000	1.625	0.500	0.1525
1350S300-118	0.1242	2.556	8.70	13.500	3.000	0.625	0.1863	1600S162-118	0.1242	2.400	8.17	16.000	1.625	0.500	0.1863
1350S350-54 <sup>1</sup>	0.0566	1.250	4.25	13.500	3.500	1.000	0.0849	1600S200-68 <sup>1</sup>	0.0713	1.477	5.03	16.000	2.000	0.625	0.1069
1350S350-68	0.0713	1.566	5.33	13.500	3.500	1.000	0.1069	1600S200-97	0.1017	2.084	7.09	16.000	2.000	0.625	0.1525
1350S350-97	0.1017	2.211	7.52	13.500	3.500	1.000	0.1525	1600S200-118	0.1242	2.525	8.59	16.000	2.000	0.625	0.1863
1350S350-118	0.1242	2.680	9.12	13.500	3.500	1.000	0.1863	1600S250-68 <sup>1</sup>	0.0713	1.549	5.27	16.000	2.500	0.625	0.1069
1400S162-54 <sup>1</sup>	0.0566	1.009	3.43	14.000	1.625	0.500	0.0849	1600S250-97	0.1017	2.186	7.44	16.000	2.500	0.625	0.1525
1400S162-68	0.0713	1.263	4.30	14.000	1.625	0.500	0.1069	1600S250-118	0.1242	2.649	9.01	16.000	2.500	0.625	0.1863
1400S162-97	0.1017	1.779	6.05	14.000	1.625	0.500	0.1525	1600S300-68 <sup>1</sup>	0.0713	1.673	5.69	16.000	3.000	0.625	0.1069
1400S162-118	0.1242	2.152	7.32	14.000	1.625	0.500	0.1863	1600S300-97	0.1017	2.364	8.04	16.000	3.000	0.625	0.1525
1400S200-54 <sup>1</sup>	0.0566	1.066	3.63	14.000	2.000	0.625	0.0849	1600S300-118	0.1242	2.866	9.75	16.000	3.000	0.625	0.1863
1400S200-68	0.0713	1.335	4.54	14.000	2.000	0.625	0.1069	1600S350-68 <sup>1</sup>	0.0713	1.745	5.94	16.000	3.500	1.000	0.1069
1400S200-97	0.1017	1.881	6.40	14.000	2.000	0.625	0.1525	1600S350-97	0.1017	2.466	8.39	16.000	3.500	1.000	0.1525
1400S200-118	0.1242	2.276	7.75	14.000	2.000	0.625	0.1863	1600S350-118	0.1242	2.990	10.18	16.000	3.500	1.000	0.1863
1400S250-54 <sup>1</sup>	0.0566	1.122	3.82	14.000	2.500	0.625	0.0849								
1400S250-68	0.0713	1.406	4.78	14.000	2.500	0.625	0.1069								
1400S250-97	0.1017	1.983	6.75	14.000	2.500	0.625	0.1525								
1400S250-118	0.1242	2.400	8.17	14.000	2.500	0.625	0.1863								

For SI: 1 Inch = 25.4 mm.

<sup>1</sup>Web-height to thickness ratio exceeds 200. Web stiffeners are required in accordance with AISI-NAS Section B1.2 and C3.6.1. No holes or punchouts are allowed in the web.

<sup>2</sup>Member depth measured from outside face to outside face of flanges.

















**TABLE 3B □ STANDARD C-SECTION DESIGN PROPERTIES (Continued)**

Member	Gross Properties <sup>2</sup>					Effective Properties 33 ksi					Effective Properties 50 ksi					Torsional Properties					
	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>x</sub> <sup>3</sup> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma <sup>4</sup> (in-k)	Vag (lb)	Vanet (lb)	I <sub>x</sub> <sup>3</sup> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma <sup>4</sup> (in-k)	Vag (lb)	Vanet (lb)	Jx1000 (in <sup>4</sup> )	Cw (in <sup>6</sup> )	X <sub>o</sub> (in)	m (in)	R <sub>o</sub> (in)	Beta
1600S200-68 <sup>1</sup>	45.291	5.661	5.537	0.506	0.585	41.916	4.431	87.56	2062	2062	40.523	4.045	121.11	2062	2062	2.503	27.155	-0.862	0.584	5.634	0.977
1600S200-97	63.050	7.881	5.500	0.670	0.567	61.757	6.938	137.10	6043	6043	59.933	6.500	194.61	6043	6043	7.186	36.744	-0.835	0.569	5.592	0.978
1600S200-118	75.601	9.450	5.472	0.773	0.553	75.601	8.859	175.05	11088	11088	74.084	8.331	249.44	11088	11088	12.981	43.132	-0.815	0.558	5.560	0.979
1600S250-68 <sup>1</sup>	49.814	6.227	5.672	0.889	0.758	46.607	4.792	94.70	2062	2062	45.550	4.092	122.51	2062	2062	2.624	46.230	-1.167	0.778	5.840	0.960
1600S250-97	69.476	8.685	5.638	1.192	0.738	68.160	7.728	152.72	6043	6043	66.577	6.983	209.06	6043	6043	7.536	63.082	-1.138	0.762	5.799	0.962
1600S250-118	83.427	10.428	5.612	1.389	0.724	83.427	9.827	194.19	11088	11088	81.923	9.222	276.12	11088	11088	13.620	74.524	-1.116	0.750	5.768	0.963
1600S300-68 <sup>1</sup>	57.099	7.137	5.841	1.713	1.012	53.813	5.802	114.66	2062	2062	52.707	5.089	152.37	2062	2062	2.836	89.150	-1.694	1.103	6.166	0.925
1600S300-97	79.844	9.980	5.812	2.334	0.994	78.497	9.010	178.05	6043	6043	76.799	8.429	252.35	6043	6043	8.150	122.659	-1.662	1.086	6.126	0.926
1600S300-118	96.066	12.008	5.789	2.753	0.980	96.066	11.396	225.19	11088	11088	94.483	10.857	325.05	11088	11088	14.737	145.819	-1.639	1.073	6.096	0.928
1600S350-68 <sup>1</sup>	61.622	7.703	5.943	2.490	1.195	58.537	6.041	119.38	2062	2062	57.437	5.180	155.08	2062	2062	2.957	127.370	-2.055	1.322	6.401	0.897
1600S350-97	86.270	10.784	5.915	3.410	1.176	84.926	9.771	193.09	6043	6043	83.691	8.382	250.96	6043	6043	8.501	175.896	-2.022	1.304	6.361	0.899
1600S350-118	103.892	12.987	5.894	4.038	1.162	103.892	12.367	244.38	11088	11088	102.530	11.305	338.47	11088	11088	15.376	209.692	-1.998	1.291	6.331	0.900

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.

**Notes to Table 3B:**

<sup>1</sup>Web-height to thickness (h/t) ratio exceeds 200. Web stiffeners in accordance with AISI-NAS Sections B1.2 and C3.6.1 are required. No holes or punchouts in the web are permitted.

<sup>2</sup>Gross Properties are based on the full-unreduced cross section of the studs, away from the punch-outs.

<sup>3</sup>Use the effective moment of inertia for deflection calculations.

<sup>4</sup>Allowable moment based on full lateral support of the compression flange.

**SYMBOLS:**

I<sub>x</sub> = Strong axis moment of inertia.  
 S<sub>x</sub> = Strong axis section modulus.  
 R<sub>x</sub> = Strong axis radius of gyration.  
 I<sub>y</sub> = Weak axis moment of inertia.  
 R<sub>y</sub> = Weak axis radius of gyration.

Ma = Allowable moment.  
 Vag = Allowable shear at unpunched web section.  
 Vanet = Allow shear at punched web section.  
 J = St. Venant torsion constant.  
 C<sub>w</sub> = Warping constant.

X<sub>o</sub> = Distance from shear center to neutral axis.  
 m = Distance from shear center to mid-plane of web.  
 R<sub>o</sub> = Radii of gyration.  
 Beta = Torsional flexural constant.

TABLE 4A □ STANDARD TRACKS

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
162T100-18	0.0188	0.068	0.23	1.625	1.000	0.0843
162T100-27	0.0283	0.103	0.35	1.625	1.000	0.0796
162T100-30	0.0312	0.113	0.38	1.625	1.000	0.0781
162T100-33	0.0346	0.125	0.43	1.625	1.000	0.0764
162T100-43	0.0451	0.163	0.55	1.625	1.000	0.0712
162T100-54	0.0566	0.204	0.70	1.625	1.000	0.0849
162T100-68	0.0713	0.257	0.88	1.625	1.000	0.1069
162T100-97	0.1017	0.366	1.25	1.625	1.000	0.1525
162T100-118	0.1242	0.447	1.52	1.625	1.000	0.1863
162T125-18	0.0188	0.077	0.26	1.625	1.250	0.0843
162T125-27	0.0283	0.117	0.40	1.625	1.250	0.0796
162T125-30	0.0312	0.129	0.44	1.625	1.250	0.0781
162T125-33	0.0346	0.143	0.49	1.625	1.250	0.0764
162T125-43	0.0451	0.186	0.63	1.625	1.250	0.0712
162T125-54	0.0566	0.233	0.79	1.625	1.250	0.0849
162T125-68	0.0713	0.293	1.00	1.625	1.250	0.1069
162T125-97	0.1017	0.417	1.42	1.625	1.250	0.1525
162T125-118	0.1242	0.509	1.73	1.625	1.250	0.1863
162T150-27	0.0283	0.131	0.45	1.625	1.500	0.0796
162T150-30	0.0312	0.144	0.49	1.625	1.500	0.0781
162T150-33	0.0346	0.160	0.54	1.625	1.500	0.0764
162T150-43	0.0451	0.208	0.71	1.625	1.500	0.0712
162T150-54	0.0566	0.261	0.89	1.625	1.500	0.0849
162T150-68	0.0713	0.329	1.12	1.625	1.500	0.1069
162T150-97	0.1017	0.468	1.59	1.625	1.500	0.1525
162T150-118	0.1242	0.571	1.94	1.625	1.500	0.1863
162T200-33	0.0346	0.194	0.66	1.625	2.000	0.0764
162T200-43	0.0451	0.253	0.86	1.625	2.000	0.0712
162T200-54	0.0566	0.318	1.08	1.625	2.000	0.0849
162T200-68	0.0713	0.400	1.36	1.625	2.000	0.1069
162T200-97	0.1017	0.570	1.94	1.625	2.000	0.1525
162T200-118	0.1242	0.695	2.37	1.625	2.000	0.1863
162T250-43	0.0451	0.298	1.02	1.625	2.500	0.0712
162T250-54	0.0566	0.374	1.27	1.625	2.500	0.0849
162T250-68	0.0713	0.471	1.60	1.625	2.500	0.1069
162T250-97	0.1017	0.672	2.29	1.625	2.500	0.1525
162T250-118	0.1242	0.819	2.79	1.625	2.500	0.1863
162T300-54	0.0566	0.431	1.47	1.625	3.000	0.0849
162T300-68	0.0713	0.543	1.85	1.625	3.000	0.1069
162T300-97	0.1017	0.773	2.63	1.625	3.000	0.1525
162T300-118	0.1242	0.944	3.21	1.625	3.000	0.1863

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
162T350-54	0.0566	0.487	1.66	1.625	3.500	0.0849
162T350-68	0.0713	0.614	2.09	1.625	3.500	0.1069
162T350-97	0.1017	0.875	2.98	1.625	3.500	0.1525
162T350-118	0.1242	1.068	3.63	1.625	3.500	0.1863
250T100-18	0.0188	0.085	0.29	2.500	1.000	0.0843
250T100-27	0.0283	0.127	0.43	2.500	1.000	0.0796
250T100-30	0.0312	0.140	0.48	2.500	1.000	0.0781
250T100-33	0.0346	0.156	0.53	2.500	1.000	0.0764
250T100-43	0.0451	0.203	0.69	2.500	1.000	0.0712
250T100-54	0.0566	0.254	0.86	2.500	1.000	0.0849
250T100-68	0.0713	0.320	1.09	2.500	1.000	0.1069
250T100-97	0.1017	0.455	1.55	2.500	1.000	0.1525
250T100-118	0.1242	0.556	1.89	2.500	1.000	0.1863
250T125-18	0.0188	0.094	0.32	2.500	1.250	0.0843
250T125-27	0.0283	0.141	0.48	2.500	1.250	0.0796
250T125-30	0.0312	0.156	0.53	2.500	1.250	0.0781
250T125-33	0.0346	0.173	0.59	2.500	1.250	0.0764
250T125-43	0.0451	0.225	0.77	2.500	1.250	0.0712
250T125-54	0.0566	0.282	0.96	2.500	1.250	0.0849
250T125-68	0.0713	0.355	1.21	2.500	1.250	0.1069
250T125-97	0.1017	0.506	1.72	2.500	1.250	0.1525
250T125-118	0.1242	0.618	2.10	2.500	1.250	0.1863
250T150-27	0.0283	0.156	0.53	2.500	1.500	0.0796
250T150-30	0.0312	0.172	0.58	2.500	1.500	0.0781
250T150-33	0.0346	0.190	0.65	2.500	1.500	0.0764
250T150-43	0.0451	0.248	0.84	2.500	1.500	0.0712
250T150-54	0.0566	0.311	1.06	2.500	1.500	0.0849
250T150-68	0.0713	0.391	1.33	2.500	1.500	0.1069
250T150-97	0.1017	0.557	1.90	2.500	1.500	0.1525
250T150-118	0.1242	0.680	2.31	2.500	1.500	0.1863
250T200-33	0.0346	0.225	0.76	2.500	2.000	0.0764
250T200-43	0.0451	0.293	1.00	2.500	2.000	0.0712
250T200-54	0.0566	0.367	1.25	2.500	2.000	0.0849
250T200-68	0.0713	0.462	1.57	2.500	2.000	0.1069
250T200-97	0.1017	0.659	2.24	2.500	2.000	0.1525
250T200-118	0.1242	0.804	2.74	2.500	2.000	0.1863
250T250-43	0.0451	0.338	1.15	2.500	2.500	0.0712
250T250-54	0.0566	0.424	1.44	2.500	2.500	0.0849
250T250-68	0.0713	0.534	1.82	2.500	2.500	0.1069
250T250-97	0.1017	0.761	2.59	2.500	2.500	0.1525
250T250-118	0.1242	0.928	3.16	2.500	2.500	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.



TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
250T300-54	0.0566	0.480	1.63	2.500	3.000	0.0849
250T300-68	0.0713	0.605	2.06	2.500	3.000	0.1069
250T300-97	0.1017	0.862	2.93	2.500	3.000	0.1525
250T300-118	0.1242	1.052	3.58	2.500	3.000	0.1863
250T350-54	0.0566	0.537	1.83	2.500	3.500	0.0849
250T350-68	0.0713	0.676	2.30	2.500	3.500	0.1069
250T350-97	0.1017	0.964	3.28	2.500	3.500	0.1525
250T350-118	0.1242	1.177	4.00	2.500	3.500	0.1863
350T100-18	0.0188	0.103	0.35	3.500	1.000	0.0843
350T100-27	0.0283	0.156	0.53	3.500	1.000	0.0796
350T100-30	0.0312	0.172	0.58	3.500	1.000	0.0781
350T100-33	0.0346	0.190	0.65	3.500	1.000	0.0764
350T100-43	0.0451	0.248	0.84	3.500	1.000	0.0712
350T100-54	0.0566	0.311	1.06	3.500	1.000	0.0849
350T100-68	0.0713	0.391	1.33	3.500	1.000	0.1069
350T100-97	0.1017	0.557	1.90	3.500	1.000	0.1525
350T100-118	0.1242	0.680	2.31	3.500	1.000	0.1863
350T125-18	0.0188	0.113	0.38	3.500	1.250	0.0843
350T125-27	0.0283	0.170	0.58	3.500	1.250	0.0796
350T125-30	0.0312	0.187	0.64	3.500	1.250	0.0781
350T125-33	0.0346	0.207	0.71	3.500	1.250	0.0764
350T125-43	0.0451	0.270	0.92	3.500	1.250	0.0712
350T125-54	0.0566	0.339	1.15	3.500	1.250	0.0849
350T125-68	0.0713	0.427	1.45	3.500	1.250	0.1069
350T125-97	0.1017	0.608	2.07	3.500	1.250	0.1525
350T125-118	0.1242	0.742	2.52	3.500	1.250	0.1863
350T150-27	0.0283	0.184	0.63	3.500	1.500	0.0796
350T150-30	0.0312	0.203	0.69	3.500	1.500	0.0781
350T150-33	0.0346	0.225	0.76	3.500	1.500	0.0764
350T150-43	0.0451	0.293	1.00	3.500	1.500	0.0712
350T150-54	0.0566	0.367	1.25	3.500	1.500	0.0849
350T150-68	0.0713	0.462	1.57	3.500	1.500	0.1069
350T150-97	0.1017	0.659	2.24	3.500	1.500	0.1525
350T150-118	0.1242	0.804	2.74	3.500	1.500	0.1863
350T200-33	0.0346	0.259	0.88	3.500	2.000	0.0764
350T200-43	0.0451	0.338	1.15	3.500	2.000	0.0712
350T200-54	0.0566	0.424	1.44	3.500	2.000	0.0849
350T200-68	0.0713	0.534	1.82	3.500	2.000	0.1069
350T200-97	0.1017	0.761	2.59	3.500	2.000	0.1525
350T200-118	0.1242	0.928	3.16	3.500	2.000	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
350T250-43	0.0451	0.383	1.30	3.500	2.500	0.0712
350T250-54	0.0566	0.480	1.63	3.500	2.500	0.0849
350T250-68	0.0713	0.605	2.06	3.500	2.500	0.1069
350T250-97	0.1017	0.862	2.93	3.500	2.500	0.1525
350T250-118	0.1242	1.052	3.58	3.500	2.500	0.1863
350T300-54	0.0566	0.537	1.83	3.500	3.000	0.0849
350T300-68	0.0713	0.676	2.30	3.500	3.000	0.1069
350T300-97	0.1017	0.964	3.28	3.500	3.000	0.1525
350T300-118	0.1242	1.177	4.00	3.500	3.000	0.1863
350T350-54	0.0566	0.594	2.02	3.500	3.500	0.0849
350T350-68	0.0713	0.748	2.54	3.500	3.500	0.1069
350T350-97	0.1017	1.066	3.63	3.500	3.500	0.1525
350T350-118	0.1242	1.301	4.43	3.500	3.500	0.1863
362T100-18	0.0188	0.106	0.36	3.625	1.000	0.0843
362T100-27	0.0283	0.159	0.54	3.625	1.000	0.0796
362T100-30	0.0312	0.175	0.60	3.625	1.000	0.0781
362T100-33	0.0346	0.194	0.66	3.625	1.000	0.0764
362T100-43	0.0451	0.253	0.86	3.625	1.000	0.0712
362T100-54	0.0566	0.318	1.08	3.625	1.000	0.0849
362T100-68	0.0713	0.400	1.36	3.625	1.000	0.1069
362T100-97	0.1017	0.570	1.94	3.625	1.000	0.1525
362T100-118	0.1242	0.695	2.37	3.625	1.000	0.1863
362T125-18	0.0188	0.115	0.39	3.625	1.250	0.0843
362T125-27	0.0283	0.173	0.59	3.625	1.250	0.0796
362T125-30	0.0312	0.191	0.65	3.625	1.250	0.0781
362T125-33	0.0346	0.212	0.72	3.625	1.250	0.0764
362T125-43	0.0451	0.276	0.94	3.625	1.250	0.0712
362T125-54	0.0566	0.346	1.18	3.625	1.250	0.0849
362T125-68	0.0713	0.436	1.48	3.625	1.250	0.1069
362T125-97	0.1017	0.621	2.11	3.625	1.250	0.1525
362T125-118	0.1242	0.757	2.58	3.625	1.250	0.1863
362T150-27	0.0283	0.187	0.64	3.625	1.500	0.0796
362T150-30	0.0312	0.207	0.70	3.625	1.500	0.0781
362T150-33	0.0346	0.229	0.78	3.625	1.500	0.0764
362T150-43	0.0451	0.298	1.02	3.625	1.500	0.0712
362T150-54	0.0566	0.374	1.27	3.625	1.500	0.0849
362T150-68	0.0713	0.471	1.60	3.625	1.500	0.1069
362T150-97	0.1017	0.672	2.29	3.625	1.500	0.1525
362T150-118	0.1242	0.819	2.79	3.625	1.500	0.1863

TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
362T200-33	0.0346	0.264	0.90	3.625	2.000	0.0764
362T200-43	0.0451	0.343	1.17	3.625	2.000	0.0712
362T200-54	0.0566	0.431	1.47	3.625	2.000	0.0849
362T200-68	0.0713	0.543	1.85	3.625	2.000	0.1069
362T200-97	0.1017	0.773	2.63	3.625	2.000	0.1525
362T200-118	0.1242	0.944	3.21	3.625	2.000	0.1863
362T250-43	0.0451	0.389	1.32	3.625	2.500	0.0712
362T250-54	0.0566	0.487	1.66	3.625	2.500	0.0849
362T250-68	0.0713	0.614	2.09	3.625	2.500	0.1069
362T250-97	0.1017	0.875	2.98	3.625	2.500	0.1525
362T250-118	0.1242	1.068	3.63	3.625	2.500	0.1863
362T300-54	0.0566	0.544	1.85	3.625	3.000	0.0849
362T300-68	0.0713	0.685	2.33	3.625	3.000	0.1069
362T300-97	0.1017	0.977	3.32	3.625	3.000	0.1525
362T300-118	0.1242	1.192	4.06	3.625	3.000	0.1863
362T350-54	0.0566	0.601	2.04	3.625	3.500	0.0849
362T350-68	0.0713	0.756	2.57	3.625	3.500	0.1069
362T350-97	0.1017	1.078	3.67	3.625	3.500	0.1525
362T350-118	0.1242	1.316	4.48	3.625	3.500	0.1863
400T100-18'	0.0188	0.113	0.38	4.000	1.000	0.0843
400T100-27	0.0283	0.170	0.58	4.000	1.000	0.0796
400T100-30	0.0312	0.187	0.64	4.000	1.000	0.0781
400T100-33	0.0346	0.207	0.71	4.000	1.000	0.0764
400T100-43	0.0451	0.270	0.92	4.000	1.000	0.0712
400T100-54	0.0566	0.339	1.15	4.000	1.000	0.0849
400T100-68	0.0713	0.427	1.45	4.000	1.000	0.1069
400T100-97	0.1017	0.608	2.07	4.000	1.000	0.1525
400T100-118	0.1242	0.742	2.52	4.000	1.000	0.1863
400T125-18'	0.0188	0.122	0.41	4.000	1.250	0.0843
400T125-27	0.0283	0.184	0.63	4.000	1.250	0.0796
400T125-30	0.0312	0.203	0.69	4.000	1.250	0.0781
400T125-33	0.0346	0.225	0.76	4.000	1.250	0.0764
400T125-43	0.0451	0.293	1.00	4.000	1.250	0.0712
400T125-54	0.0566	0.367	1.25	4.000	1.250	0.0849
400T125-68	0.0713	0.462	1.57	4.000	1.250	0.1069
400T125-97	0.1017	0.659	2.24	4.000	1.250	0.1525
400T125-118	0.1242	0.804	2.74	4.000	1.250	0.1863

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
400T150-27	0.0283	0.198	0.67	4.000	1.500	0.0796
400T150-30	0.0312	0.218	0.74	4.000	1.500	0.0781
400T150-33	0.0346	0.242	0.82	4.000	1.500	0.0764
400T150-43	0.0451	0.315	1.07	4.000	1.500	0.0712
400T150-54	0.0566	0.396	1.35	4.000	1.500	0.0849
400T150-68	0.0713	0.498	1.69	4.000	1.500	0.1069
400T150-97	0.1017	0.710	2.41	4.000	1.500	0.1525
400T150-118	0.1242	0.866	2.95	4.000	1.500	0.1863
400T200-33	0.0346	0.277	0.94	4.000	2.000	0.0764
400T200-43	0.0451	0.360	1.23	4.000	2.000	0.0712
400T200-54	0.0566	0.452	1.54	4.000	2.000	0.0849
400T200-68	0.0713	0.569	1.94	4.000	2.000	0.1069
400T200-97	0.1017	0.811	2.76	4.000	2.000	0.1525
400T200-118	0.1242	0.990	3.37	4.000	2.000	0.1863
400T250-43	0.0451	0.405	1.38	4.000	2.500	0.0712
400T250-54	0.0566	0.509	1.73	4.000	2.500	0.0849
400T250-68	0.0713	0.641	2.18	4.000	2.500	0.1069
400T250-97	0.1017	0.913	3.11	4.000	2.500	0.1525
400T250-118	0.1242	1.114	3.79	4.000	2.500	0.1863
400T300-54	0.0566	0.565	1.92	4.000	3.000	0.0849
400T300-68	0.0713	0.712	2.42	4.000	3.000	0.1069
400T300-97	0.1017	1.015	3.45	4.000	3.000	0.1525
400T300-118	0.1242	1.239	4.21	4.000	3.000	0.1863
400T350-54	0.0566	0.622	2.12	4.000	3.500	0.0849
400T350-68	0.0713	0.783	2.67	4.000	3.500	0.1069
400T350-97	0.1017	1.116	3.80	4.000	3.500	0.1525
400T350-118	0.1242	1.363	4.64	4.000	3.500	0.1863
550T100-27	0.0283	0.212	0.72	5.500	1.000	0.0796
550T100-30	0.0312	0.234	0.80	5.500	1.000	0.0781
550T100-33	0.0346	0.259	0.88	5.500	1.000	0.0764
550T100-43	0.0451	0.338	1.15	5.500	1.000	0.0712
550T100-54	0.0566	0.424	1.44	5.500	1.000	0.0849
550T100-68	0.0713	0.534	1.82	5.500	1.000	0.1069
550T100-97	0.1017	0.761	2.59	5.500	1.000	0.1525
550T100-118	0.1242	0.928	3.16	5.500	1.000	0.1863
550T125-27	0.0283	0.226	0.77	5.500	1.250	0.0796
550T125-30	0.0312	0.250	0.85	5.500	1.250	0.0781
550T125-33	0.0346	0.277	0.94	5.500	1.250	0.0764
550T125-43	0.0451	0.360	1.23	5.500	1.250	0.0712
550T125-54	0.0566	0.452	1.54	5.500	1.250	0.0849
550T125-68	0.0713	0.569	1.94	5.500	1.250	0.1069
550T125-97	0.1017	0.811	2.76	5.500	1.250	0.1525
550T125-118	0.1242	0.990	3.37	5.500	1.250	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)						AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
550T150-27	0.0283	0.241	0.82	5.500	1.500	0.0796	600T150-27 <sup>1</sup>	0.0283	0.255	0.87	6.000	1.500	0.0796
550T150-30	0.0312	0.265	0.90	5.500	1.500	0.0781	600T150-30	0.0312	0.281	0.96	6.000	1.500	0.0781
550T150-33	0.0346	0.294	1.00	5.500	1.500	0.0764	600T150-33	0.0346	0.311	1.06	6.000	1.500	0.0764
550T150-43	0.0451	0.383	1.30	5.500	1.500	0.0712	600T150-43	0.0451	0.405	1.38	6.000	1.500	0.0712
550T150-54	0.0566	0.480	1.63	5.500	1.500	0.0849	600T150-54	0.0566	0.509	1.73	6.000	1.500	0.0849
550T150-68	0.0713	0.605	2.06	5.500	1.500	0.1069	600T150-68	0.0713	0.641	2.18	6.000	1.500	0.1069
550T150-97	0.1017	0.862	2.93	5.500	1.500	0.1525	600T150-97	0.1017	0.913	3.11	6.000	1.500	0.1525
550T150-118	0.1242	1.052	3.58	5.500	1.500	0.1863	600T150-118	0.1242	1.114	3.79	6.000	1.500	0.1863
550T200-33	0.0346	0.329	1.12	5.500	2.000	0.0764	600T200-33	0.0346	0.346	1.18	6.000	2.000	0.0764
550T200-43	0.0451	0.428	1.46	5.500	2.000	0.0712	600T200-43	0.0451	0.451	1.53	6.000	2.000	0.0712
550T200-54	0.0566	0.537	1.83	5.500	2.000	0.0849	600T200-54	0.0566	0.565	1.92	6.000	2.000	0.0849
550T200-68	0.0713	0.676	2.30	5.500	2.000	0.1069	600T200-68	0.0713	0.712	2.42	6.000	2.000	0.1069
550T200-97	0.1017	0.964	3.28	5.500	2.000	0.1525	600T200-97	0.1017	1.015	3.45	6.000	2.000	0.1525
550T200-118	0.1242	1.177	4.00	5.500	2.000	0.1863	600T200-118	0.1242	1.239	4.21	6.000	2.000	0.1863
550T250-43	0.0451	0.473	1.61	5.500	2.500	0.0712	600T250-43	0.0451	0.496	1.69	6.000	2.500	0.0712
550T250-54	0.0566	0.594	2.02	5.500	2.500	0.0849	600T250-54	0.0566	0.622	2.12	6.000	2.500	0.0849
550T250-68	0.0713	0.748	2.54	5.500	2.500	0.1069	600T250-68	0.0713	0.783	2.67	6.000	2.500	0.1069
550T250-97	0.1017	1.066	3.63	5.500	2.500	0.1525	600T250-97	0.1017	1.116	3.80	6.000	2.500	0.1525
550T250-118	0.1242	1.301	4.43	5.500	2.500	0.1863	600T250-118	0.1242	1.363	4.64	6.000	2.500	0.1863
550T300-54	0.0566	0.650	2.21	5.500	3.000	0.0849	600T300-54	0.0566	0.679	2.31	6.000	3.000	0.0849
550T300-68	0.0713	0.819	2.79	5.500	3.000	0.1069	600T300-68	0.0713	0.854	2.91	6.000	3.000	0.1069
550T300-97	0.1017	1.167	3.97	5.500	3.000	0.1525	600T300-97	0.1017	1.218	4.15	6.000	3.000	0.1525
550T300-118	0.1242	1.425	4.85	5.500	3.000	0.1863	600T300-118	0.1242	1.487	5.06	6.000	3.000	0.1863
550T350-54	0.0566	0.707	2.41	5.500	3.500	0.0849	600T350-54	0.0566	0.735	2.50	6.000	3.500	0.0849
550T350-68	0.0713	0.890	3.03	5.500	3.500	0.1069	600T350-68	0.0713	0.926	3.15	6.000	3.500	0.1069
550T350-97	0.1017	1.269	4.32	5.500	3.500	0.1525	600T350-97	0.1017	1.320	4.49	6.000	3.500	0.1525
550T350-118	0.1242	1.549	5.27	5.500	3.500	0.1863	600T350-118	0.1242	1.611	5.48	6.000	3.500	0.1863
600T100-27 <sup>1</sup>	0.0283	0.226	0.77	6.000	1.000	0.0796	725T100-27 <sup>1</sup>	0.0283	0.262	0.89	7.250	1.000	0.0796
600T100-30	0.0312	0.250	0.85	6.000	1.000	0.0781	725T100-30 <sup>1</sup>	0.0312	0.289	0.98	7.250	1.000	0.0781
600T100-33	0.0346	0.277	0.94	6.000	1.000	0.0764	725T100-33 <sup>1</sup>	0.0346	0.320	1.09	7.250	1.000	0.0764
600T100-43	0.0451	0.360	1.23	6.000	1.000	0.0712	725T100-43	0.0451	0.417	1.42	7.250	1.000	0.0712
600T100-54	0.0566	0.452	1.54	6.000	1.000	0.0849	725T100-54	0.0566	0.523	1.78	7.250	1.000	0.0849
600T100-68	0.0713	0.569	1.94	6.000	1.000	0.1069	725T100-68	0.0713	0.658	2.24	7.250	1.000	0.1069
600T100-97	0.1017	0.811	2.76	6.000	1.000	0.1525	725T100-97	0.1017	0.938	3.19	7.250	1.000	0.1525
600T100-118	0.1242	0.990	3.37	6.000	1.000	0.1863	725T100-118	0.1242	1.146	3.90	7.250	1.000	0.1863
600T125-27 <sup>1</sup>	0.0283	0.241	0.82	6.000	1.250	0.0796	725T125-27 <sup>1</sup>	0.0283	0.276	0.94	7.250	1.250	0.0796
600T125-30	0.0312	0.265	0.90	6.000	1.250	0.0781	725T125-30 <sup>1</sup>	0.0312	0.304	1.03	7.250	1.250	0.0781
600T125-33	0.0346	0.294	1.00	6.000	1.250	0.0764	725T125-33 <sup>1</sup>	0.0346	0.337	1.15	7.250	1.250	0.0764
600T125-43	0.0451	0.383	1.30	6.000	1.250	0.0712	725T125-43	0.0451	0.439	1.49	7.250	1.250	0.0712
600T125-54	0.0566	0.480	1.63	6.000	1.250	0.0849	725T125-54	0.0566	0.551	1.88	7.250	1.250	0.0849
600T125-68	0.0713	0.605	2.06	6.000	1.250	0.1069	725T125-68	0.0713	0.694	2.36	7.250	1.250	0.1069
600T125-97	0.1017	0.862	2.93	6.000	1.250	0.1525	725T125-97	0.1017	0.989	3.37	7.250	1.250	0.1525
600T125-118	0.1242	1.052	3.58	6.000	1.250	0.1863	725T125-118	0.1242	1.208	4.11	7.250	1.250	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)						AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
725T150-27'	0.0283	0.290	0.99	7.250	1.500	0.0796	800T150-30'	0.0312	0.343	1.17	8.000	1.500	0.0781
725T150-30'	0.0312	0.320	1.09	7.250	1.500	0.0781	800T150-33'	0.0346	0.380	1.29	8.000	1.500	0.0764
725T150-33'	0.0346	0.355	1.21	7.250	1.500	0.0764	800T150-43	0.0451	0.496	1.69	8.000	1.500	0.0712
725T150-43	0.0451	0.462	1.57	7.250	1.500	0.0712	800T150-54	0.0566	0.622	2.12	8.000	1.500	0.0849
725T150-54	0.0566	0.579	1.97	7.250	1.500	0.0849	800T150-68	0.0713	0.783	2.67	8.000	1.500	0.1069
725T150-68	0.0713	0.730	2.48	7.250	1.500	0.1069	800T150-97	0.1017	1.116	3.80	8.000	1.500	0.1525
725T150-97	0.1017	1.040	3.54	7.250	1.500	0.1525	800T150-118	0.1242	1.363	4.64	8.000	1.500	0.1863
725T150-118	0.1242	1.270	4.32	7.250	1.500	0.1863	800T200-33'	0.0346	0.415	1.41	8.000	2.000	0.0764
725T200-33'	0.0346	0.389	1.32	7.250	2.000	0.0764	800T200-43	0.0451	0.541	1.84	8.000	2.000	0.0712
725T200-43	0.0451	0.507	1.73	7.250	2.000	0.0712	800T200-54	0.0566	0.679	2.31	8.000	2.000	0.0849
725T200-54	0.0566	0.636	2.16	7.250	2.000	0.0849	800T200-68	0.0713	0.854	2.91	8.000	2.000	0.1069
725T200-68	0.0713	0.801	2.73	7.250	2.000	0.1069	800T200-97	0.1017	1.218	4.15	8.000	2.000	0.1525
725T200-97	0.1017	1.142	3.89	7.250	2.000	0.1525	800T200-118	0.1242	1.487	5.06	8.000	2.000	0.1863
725T200-118	0.1242	1.394	4.74	7.250	2.000	0.1863	800T250-43	0.0451	0.586	1.99	8.000	2.500	0.0712
725T250-43	0.0451	0.552	1.88	7.250	2.500	0.0712	800T250-54	0.0566	0.735	2.50	8.000	2.500	0.0849
725T250-54	0.0566	0.693	2.36	7.250	2.500	0.0849	800T250-68	0.0713	0.926	3.15	8.000	2.500	0.1069
725T250-68	0.0713	0.872	2.97	7.250	2.500	0.1069	800T250-97	0.1017	1.320	4.49	8.000	2.500	0.1525
725T250-97	0.1017	1.244	4.23	7.250	2.500	0.1525	800T250-118	0.1242	1.611	5.48	8.000	2.500	0.1863
725T250-118	0.1242	1.518	5.17	7.250	2.500	0.1863	800T300-54	0.0566	0.792	2.69	8.000	3.000	0.0849
725T300-54	0.0566	0.749	2.55	7.250	3.000	0.0849	800T300-68	0.0713	0.997	3.39	8.000	3.000	0.1069
725T300-68	0.0713	0.944	3.21	7.250	3.000	0.1069	800T300-97	0.1017	1.422	4.84	8.000	3.000	0.1525
725T300-97	0.1017	1.345	4.58	7.250	3.000	0.1525	800T300-118	0.1242	1.735	5.91	8.000	3.000	0.1863
725T300-118	0.1242	1.642	5.59	7.250	3.000	0.1863	800T350-54	0.0566	0.848	2.89	8.000	3.500	0.0849
725T350-54	0.0566	0.806	2.74	7.250	3.500	0.0849	800T350-68	0.0713	1.068	3.64	8.000	3.500	0.1069
725T350-68	0.0713	1.015	3.45	7.250	3.500	0.1069	800T350-97	0.1017	1.523	5.18	8.000	3.500	0.1525
725T350-97	0.1017	1.447	4.92	7.250	3.500	0.1525	800T350-118	0.1242	1.860	6.33	8.000	3.500	0.1863
725T350-118	0.1242	1.767	6.01	7.250	3.500	0.1863	925T100-43'	0.0451	0.507	1.73	9.250	1.000	0.0712
800T100-30'	0.0312	0.312	1.06	8.000	1.000	0.0781	925T100-54	0.0566	0.636	2.16	9.250	1.000	0.0849
800T100-33'	0.0346	0.346	1.18	8.000	1.000	0.0764	925T100-68	0.0713	0.801	2.73	9.250	1.000	0.1069
800T100-43	0.0451	0.451	1.53	8.000	1.000	0.0712	925T100-97	0.1017	1.142	3.89	9.250	1.000	0.1525
800T100-54	0.0566	0.565	1.92	8.000	1.000	0.0849	925T100-118	0.1242	1.394	4.74	9.250	1.000	0.1863
800T100-68	0.0713	0.712	2.42	8.000	1.000	0.1069	925T125-43'	0.0451	0.530	1.80	9.250	1.250	0.0712
800T100-97	0.1017	1.015	3.45	8.000	1.000	0.1525	925T125-54	0.0566	0.664	2.26	9.250	1.250	0.0849
800T100-118	0.1242	1.239	4.21	8.000	1.000	0.1863	925T125-68	0.0713	0.837	2.85	9.250	1.250	0.1069
800T125-30'	0.0312	0.328	1.11	8.000	1.250	0.0781	925T125-97	0.1017	1.193	4.06	9.250	1.250	0.1525
800T125-33'	0.0346	0.363	1.24	8.000	1.250	0.0764	925T125-118	0.1242	1.456	4.95	9.250	1.250	0.1863
800T125-43	0.0451	0.473	1.61	8.000	1.250	0.0712	925T150-43'	0.0451	0.552	1.88	9.250	1.500	0.0712
800T125-54	0.0566	0.594	2.02	8.000	1.250	0.0849	925T150-54	0.0566	0.693	2.36	9.250	1.500	0.0849
800T125-68	0.0713	0.748	2.54	8.000	1.250	0.1069	925T150-68	0.0713	0.872	2.97	9.250	1.500	0.1069
800T125-97	0.1017	1.066	3.63	8.000	1.250	0.1525	925T150-97	0.1017	1.244	4.23	9.250	1.500	0.1525
800T125-118	0.1242	1.301	4.43	8.000	1.250	0.1863	925T150-118	0.1242	1.518	5.17	9.250	1.500	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
925T200-43'	0.0451	0.597	2.03	9.250	2.000	0.0712
925T200-54	0.0566	0.749	2.55	9.250	2.000	0.0849
925T200-68	0.0713	0.944	3.21	9.250	2.000	0.1069
925T200-97	0.1017	1.345	4.58	9.250	2.000	0.1525
925T200-118	0.1242	1.642	5.59	9.250	2.000	0.1863
925T250-43'	0.0451	0.642	2.19	9.250	2.500	0.0712
925T250-54	0.0566	0.806	2.74	9.250	2.500	0.0849
925T250-68	0.0713	1.015	3.45	9.250	2.500	0.1069
925T250-97	0.1017	1.447	4.92	9.250	2.500	0.1525
925T250-118	0.1242	1.767	6.01	9.250	2.500	0.1863
925T300-54	0.0566	0.862	2.93	9.250	3.000	0.0849
925T300-68	0.0713	1.086	3.70	9.250	3.000	0.1069
925T300-97	0.1017	1.549	5.27	9.250	3.000	0.1525
925T300-118	0.1242	1.891	6.43	9.250	3.000	0.1863
925T350-54	0.0566	0.919	3.13	9.250	3.500	0.0849
925T350-68	0.0713	1.158	3.94	9.250	3.500	0.1069
925T350-97	0.1017	1.650	5.62	9.250	3.500	0.1525
925T350-118	0.1242	2.015	6.86	9.250	3.500	0.1863
1000T100-43'	0.0451	0.541	1.84	10.000	1.000	0.0712
1000T100-54	0.0566	0.679	2.31	10.000	1.000	0.0849
1000T100-68	0.0713	0.854	2.91	10.000	1.000	0.1069
1000T100-97	0.1017	1.218	4.15	10.000	1.000	0.1525
1000T100-118	0.1242	1.487	5.06	10.000	1.000	0.1863
1000T125-43'	0.0451	0.563	1.92	10.000	1.250	0.0712
1000T125-54	0.0566	0.707	2.41	10.000	1.250	0.0849
1000T125-68	0.0713	0.890	3.03	10.000	1.250	0.1069
1000T125-97	0.1017	1.269	4.32	10.000	1.250	0.1525
1000T125-118	0.1242	1.549	5.27	10.000	1.250	0.1863
1000T150-43'	0.0451	0.586	1.99	10.000	1.500	0.0712
1000T150-54	0.0566	0.735	2.50	10.000	1.500	0.0849
1000T150-68	0.0713	0.926	3.15	10.000	1.500	0.1069
1000T150-97	0.1017	1.320	4.49	10.000	1.500	0.1525
1000T150-118	0.1242	1.611	5.48	10.000	1.500	0.1863
1000T200-43'	0.0451	0.631	2.15	10.000	2.000	0.0712
1000T200-54	0.0566	0.792	2.69	10.000	2.000	0.0849
1000T200-68	0.0713	0.997	3.39	10.000	2.000	0.1069
1000T200-97	0.1017	1.422	4.84	10.000	2.000	0.1525
1000T200-118	0.1242	1.735	5.91	10.000	2.000	0.1863
1000T250-43'	0.0451	0.676	2.30	10.000	2.500	0.0712
1000T250-54	0.0566	0.848	2.89	10.000	2.500	0.0849
1000T250-68	0.0713	1.068	3.64	10.000	2.500	0.1069
1000T250-97	0.1017	1.523	5.18	10.000	2.500	0.1525
1000T250-118	0.1242	1.860	6.33	10.000	2.500	0.1863

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
1000T300-54	0.0566	0.905	3.08	10.000	3.000	0.0849
1000T300-68	0.0713	1.140	3.88	10.000	3.000	0.1069
1000T300-97	0.1017	1.625	5.53	10.000	3.000	0.1525
1000T300-118	0.1242	1.984	6.75	10.000	3.000	0.1863
1000T350-54	0.0566	0.962	3.27	10.000	3.500	0.0849
1000T350-68	0.0713	1.211	4.12	10.000	3.500	0.1069
1000T350-97	0.1017	1.727	5.88	10.000	3.500	0.1525
1000T350-118	0.1242	2.108	7.17	10.000	3.500	0.1863
1150T100-43'	0.0451	0.608	2.07	11.500	1.000	0.0712
1150T100-54'	0.0566	0.763	2.60	11.500	1.000	0.0849
1150T100-68	0.0713	0.961	3.27	11.500	1.000	0.1069
1150T100-97	0.1017	1.371	4.66	11.500	1.000	0.1525
1150T100-118	0.1242	1.673	5.69	11.500	1.000	0.1863
1150T125-43'	0.0451	0.631	2.15	11.500	1.250	0.0712
1150T125-54'	0.0566	0.792	2.69	11.500	1.250	0.0849
1150T125-68	0.0713	0.997	3.39	11.500	1.250	0.1069
1150T125-97	0.1017	1.422	4.84	11.500	1.250	0.1525
1150T125-118	0.1242	1.735	5.91	11.500	1.250	0.1863
1150T150-43'	0.0451	0.654	2.22	11.500	1.500	0.0712
1150T150-54'	0.0566	0.820	2.79	11.500	1.500	0.0849
1150T150-68	0.0713	1.033	3.51	11.500	1.500	0.1069
1150T150-97	0.1017	1.472	5.01	11.500	1.500	0.1525
1150T150-118	0.1242	1.798	6.12	11.500	1.500	0.1863
1150T200-43'	0.0451	0.699	2.38	11.500	2.000	0.0712
1150T200-54'	0.0566	0.877	2.98	11.500	2.000	0.0849
1150T200-68	0.0713	1.104	3.76	11.500	2.000	0.1069
1150T200-97	0.1017	1.574	5.36	11.500	2.000	0.1525
1150T200-118	0.1242	1.922	6.54	11.500	2.000	0.1863
1150T250-43'	0.0451	0.744	2.53	11.500	2.500	0.0712
1150T250-54'	0.0566	0.933	3.18	11.500	2.500	0.0849
1150T250-68	0.0713	1.175	4.00	11.500	2.500	0.1069
1150T250-97	0.1017	1.676	5.70	11.500	2.500	0.1525
1150T250-118	0.1242	2.046	6.96	11.500	2.500	0.1863
1150T300-54'	0.0566	0.990	3.37	11.500	3.000	0.0849
1150T300-68	0.0713	1.247	4.24	11.500	3.000	0.1069
1150T300-97	0.1017	1.778	6.05	11.500	3.000	0.1525
1150T300-118	0.1242	2.170	7.38	11.500	3.000	0.1863
1150T350-54'	0.0566	1.046	3.56	11.500	3.500	0.0849
1150T350-68	0.0713	1.318	4.48	11.500	3.500	0.1069
1150T350-97	0.1017	1.879	6.39	11.500	3.500	0.1525
1150T350-118	0.1242	2.294	7.81	11.500	3.500	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)	MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)						AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
1200T100-54 <sup>1</sup>	0.0566	0.792	2.69	12.000	1.000	0.0849	1350T200-54 <sup>1</sup>	0.0566	0.990	3.37	13.500	2.000	0.0849
1200T100-68	0.0713	0.997	3.39	12.000	1.000	0.1069	1350T200-68	0.0713	1.247	4.24	13.500	2.000	0.1069
1200T100-97	0.1017	1.422	4.84	12.000	1.000	0.1525	1350T200-97	0.1017	1.778	6.05	13.500	2.000	0.1525
1200T100-118	0.1242	1.735	5.91	12.000	1.000	0.1863	1350T200-118	0.1242	2.170	7.38	13.500	2.000	0.1863
1200T125-54 <sup>1</sup>	0.0566	0.820	2.79	12.000	1.250	0.0849	1350T250-54 <sup>1</sup>	0.0566	1.046	3.56	13.500	2.500	0.0849
1200T125-68	0.0713	1.033	3.51	12.000	1.250	0.1069	1350T250-68	0.0713	1.318	4.48	13.500	2.500	0.1069
1200T125-97	0.1017	1.472	5.01	12.000	1.250	0.1525	1350T250-97	0.1017	1.879	6.39	13.500	2.500	0.1525
1200T125-118	0.1242	1.798	6.12	12.000	1.250	0.1863	1350T250-118	0.1242	2.294	7.81	13.500	2.500	0.1863
1200T150-54 <sup>1</sup>	0.0566	0.848	2.89	12.000	1.500	0.0849	1350T300-54 <sup>1</sup>	0.0566	1.103	3.75	13.500	3.000	0.0849
1200T150-68	0.0713	1.068	3.64	12.000	1.500	0.1069	1350T300-68	0.0713	1.389	4.73	13.500	3.000	0.1069
1200T150-97	0.1017	1.523	5.18	12.000	1.500	0.1525	1350T300-97	0.1017	1.981	6.74	13.500	3.000	0.1525
1200T150-118	0.1242	1.860	6.33	12.000	1.500	0.1863	1350T300-118	0.1242	2.419	8.23	13.500	3.000	0.1863
1200T200-54 <sup>1</sup>	0.0566	0.905	3.08	12.000	2.000	0.0849	1350T350-54 <sup>1</sup>	0.0566	1.160	3.95	13.500	3.500	0.0849
1200T200-68	0.0713	1.140	3.88	12.000	2.000	0.1069	1350T350-68	0.0713	1.461	4.97	13.500	3.500	0.1069
1200T200-97	0.1017	1.625	5.53	12.000	2.000	0.1525	1350T350-97	0.1017	2.083	7.09	13.500	3.500	0.1525
1200T200-118	0.1242	1.984	6.75	12.000	2.000	0.1863	1350T350-118	0.1242	2.543	8.65	13.500	3.500	0.1863
1200T250-54 <sup>1</sup>	0.0566	0.962	3.27	12.000	2.500	0.0849	1400T100-54 <sup>1</sup>	0.0566	0.905	3.08	14.000	1.000	0.0849
1200T250-68	0.0713	1.211	4.12	12.000	2.500	0.1069	1400T100-68	0.0713	1.140	3.88	14.000	1.000	0.1069
1200T250-97	0.1017	1.727	5.88	12.000	2.500	0.1525	1400T100-97	0.1017	1.625	5.53	14.000	1.000	0.1525
1200T250-118	0.1242	2.108	7.17	12.000	2.500	0.1863	1400T100-118	0.1242	1.984	6.75	14.000	1.000	0.1863
1200T300-54 <sup>1</sup>	0.0566	1.018	3.46	12.000	3.000	0.0849	1400T125-54 <sup>1</sup>	0.0566	0.933	3.18	14.000	1.250	0.0849
1200T300-68	0.0713	1.282	4.36	12.000	3.000	0.1069	1400T125-68	0.0713	1.175	4.00	14.000	1.250	0.1069
1200T300-97	0.1017	1.828	6.22	12.000	3.000	0.1525	1400T125-97	0.1017	1.676	5.70	14.000	1.250	0.1525
1200T300-118	0.1242	2.232	7.60	12.000	3.000	0.1863	1400T125-118	0.1242	2.046	6.96	14.000	1.250	0.1863
1200T350-54 <sup>1</sup>	0.0566	1.075	3.66	12.000	3.500	0.0849	1400T150-54 <sup>1</sup>	0.0566	0.962	3.27	14.000	1.500	0.0849
1200T350-68	0.0713	1.354	4.61	12.000	3.500	0.1069	1400T150-68	0.0713	1.211	4.12	14.000	1.500	0.1069
1200T350-97	0.1017	1.930	6.57	12.000	3.500	0.1525	1400T150-97	0.1017	1.727	5.88	14.000	1.500	0.1525
1200T350-118	0.1242	2.356	8.02	12.000	3.500	0.1863	1400T150-118	0.1242	2.108	7.17	14.000	1.500	0.1863
1350T100-54 <sup>1</sup>	0.0566	0.877	2.98	13.500	1.000	0.0849	1400T200-54 <sup>1</sup>	0.0566	1.018	3.46	14.000	2.000	0.0849
1350T100-68	0.0713	1.104	3.76	13.500	1.000	0.1069	1400T200-68	0.0713	1.282	4.36	14.000	2.000	0.1069
1350T100-97	0.1017	1.574	5.36	13.500	1.000	0.1525	1400T200-97	0.1017	1.828	6.22	14.000	2.000	0.1525
1350T100-118	0.1242	1.922	6.54	13.500	1.000	0.1863	1400T200-118	0.1242	2.232	7.60	14.000	2.000	0.1863
1350T125-54 <sup>1</sup>	0.0566	0.905	3.08	13.500	1.250	0.0849	1400T250-54 <sup>1</sup>	0.0566	1.075	3.66	14.000	2.500	0.0849
1350T125-68	0.0713	1.140	3.88	13.500	1.250	0.1069	1400T250-68	0.0713	1.354	4.61	14.000	2.500	0.1069
1350T125-97	0.1017	1.625	5.53	13.500	1.250	0.1525	1400T250-97	0.1017	1.930	6.57	14.000	2.500	0.1525
1350T125-118	0.1242	1.984	6.75	13.500	1.250	0.1863	1400T250-118	0.1242	2.356	8.02	14.000	2.500	0.1863
1350T150-54 <sup>1</sup>	0.0566	0.933	3.18	13.500	1.500	0.0849	1400T300-54 <sup>1</sup>	0.0566	1.131	3.85	14.000	3.000	0.0849
1350T150-68	0.0713	1.175	4.00	13.500	1.500	0.1069	1400T300-68	0.0713	1.425	4.85	14.000	3.000	0.1069
1350T150-97	0.1017	1.676	5.70	13.500	1.500	0.1525	1400T300-97	0.1017	2.032	6.91	14.000	3.000	0.1525
1350T150-118	0.1242	2.046	6.96	13.500	1.500	0.1863	1400T300-118	0.1242	2.481	8.44	14.000	3.000	0.1863

For S1: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

TABLE 4A □ STANDARD TRACKS (Continued)

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
1400T350-54 <sup>1</sup>	0.0566	1.188	4.04	14.000	3.500	0.0849
1400T350-68	0.0713	1.496	5.09	14.000	3.500	0.1069
1400T350-97	0.1017	2.133	7.26	14.000	3.500	0.1525
1400T350-118	0.1242	2.605	8.86	14.000	3.500	0.1863
1600T100-54 <sup>1</sup>	0.0566	1.018	3.46	16.000	1.000	0.0849
1600T100-68 <sup>1</sup>	0.0713	1.282	4.36	16.000	1.000	0.1069
1600T100-97	0.1017	1.828	6.22	16.000	1.000	0.1525
1600T100-118	0.1242	2.232	7.60	16.000	1.000	0.1863
1600T125-68 <sup>1</sup>	0.0713	1.318	4.48	16.000	1.250	0.1069
1600T125-97	0.1017	1.879	6.39	16.000	1.250	0.1525
1600T125-118	0.1242	2.294	7.81	16.000	1.250	0.1863
1600T150-68 <sup>1</sup>	0.0713	1.354	4.61	16.000	1.500	0.1069
1600T150-97	0.1017	1.930	6.57	16.000	1.500	0.1525
1600T150-118	0.1242	2.356	8.02	16.000	1.500	0.1863

MEMBER	DESIGN THICKNESS (in)	GROSS		MEMBER DEPTH <sup>2</sup> (in)	FLANGE WIDTH (in)	INSIDE CORNER RADII (in)
		AREA (in <sup>2</sup> )	WEIGHT (lb/ft)			
1600T200-68 <sup>1</sup>	0.0713	1.425	4.85	16.000	2.000	0.1069
1600T200-97	0.1017	2.032	6.91	16.000	2.000	0.1525
1600T200-118	0.1242	2.481	8.44	16.000	2.000	0.1863
1600T250-68 <sup>1</sup>	0.0713	1.496	5.09	16.000	2.500	0.1069
1600T250-97	0.1017	2.133	7.26	16.000	2.500	0.1525
1600T250-118	0.1242	2.605	8.86	16.000	2.500	0.1863
1600T300-68 <sup>1</sup>	0.0713	1.567	5.33	16.000	3.000	0.1069
1600T300-97	0.1017	2.235	7.61	16.000	3.000	0.1525
1600T300-118	0.1242	2.729	9.29	16.000	3.000	0.1863
1600T350-68 <sup>1</sup>	0.0713	1.639	5.58	16.000	3.500	0.1069
1600T350-97	0.1017	2.337	7.95	16.000	3.500	0.1525
1600T350-118	0.1242	2.853	9.71	16.000	3.500	0.1863

For SI: 1 inch = 25.4 mm, 1 lb = 0.4536 kg.

Notes to Table 4A:

<sup>1</sup>Web-height to thickness ratio exceeds 200. Web Stiffeners are required in accordance with AISI-NAS Sections B1.2 and C3.6.1.

<sup>2</sup>Member depth measured from inside face to inside face of flanges.





**TABLE 4B □ STANDARD TRACK DESIGN PROPERTIES (Continued)**

Member	Gross Properties					Effective Properties 33 ksi				Effective Properties 50 ksi				Torsional Properties					
	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	J <sub>x</sub> 1000 (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	X <sub>o</sub> (in)	m (in)	R <sub>o</sub> (in)	Beta
250T100-18	0.088	0.067	1.020	0.008	0.310	0.071	0.045	0.88	245	0.069	0.037	1.11	245	0.010	0.010	-0.563	0.344	1.206	0.782
250T100-27	0.133	0.101	1.021	0.012	0.308	0.117	0.075	1.49	685	0.112	0.071	2.12	833	0.034	0.015	-0.558	0.342	1.204	0.785
250T100-30	0.146	0.111	1.021	0.013	0.308	0.132	0.085	1.69	832	0.126	0.080	2.40	1024	0.046	0.016	-0.557	0.341	1.203	0.786
250T100-33	0.162	0.123	1.022	0.015	0.307	0.150	0.098	1.93	1024	0.143	0.092	2.75	1260	0.062	0.018	-0.556	0.341	1.203	0.787
250T100-43	0.212	0.159	1.023	0.019	0.305	0.207	0.139	2.74	1356	0.198	0.130	3.88	2054	0.137	0.023	-0.551	0.338	1.201	0.790
250T100-54	0.269	0.199	1.029	0.023	0.303	0.269	0.189	3.73	1692	0.265	0.177	5.31	2563	0.271	0.029	-0.545	0.334	1.203	0.795
250T100-68	0.344	0.251	1.038	0.029	0.300	0.344	0.251	5.58	2111	0.344	0.243	7.26	3199	0.542	0.037	-0.538	0.330	1.207	0.802
250T100-97	0.508	0.356	1.056	0.039	0.293	0.508	0.356	8.27	2954	0.508	0.356	12.27	4476	1.570	0.054	-0.522	0.320	1.214	0.815
250T100-118	0.634	0.432	1.068	0.046	0.288	0.634	0.432	10.36	3556	0.634	0.432	15.31	5388	2.857	0.067	-0.511	0.313	1.219	0.824
250T125-18	0.103	0.079	1.051	0.015	0.400	0.078	0.045	0.90	249	0.076	0.038	1.14	249	0.011	0.018	-0.769	0.460	1.362	0.681
250T125-27	0.157	0.119	1.053	0.022	0.398	0.129	0.079	1.56	685	0.122	0.074	2.21	833	0.038	0.027	-0.763	0.457	1.360	0.685
250T125-30	0.173	0.131	1.053	0.025	0.397	0.145	0.090	1.77	832	0.138	0.084	2.51	1024	0.051	0.030	-0.762	0.456	1.359	0.686
250T125-33	0.192	0.145	1.054	0.027	0.397	0.166	0.103	2.03	1024	0.157	0.096	2.87	1260	0.069	0.033	-0.760	0.456	1.358	0.687
250T125-43	0.250	0.188	1.055	0.035	0.395	0.231	0.147	2.91	1356	0.220	0.137	4.09	2054	0.153	0.042	-0.755	0.453	1.356	0.690
250T125-54	0.318	0.236	1.062	0.043	0.392	0.310	0.203	4.01	1692	0.297	0.188	5.64	2563	0.301	0.054	-0.749	0.449	1.357	0.696
250T125-68	0.408	0.297	1.072	0.054	0.389	0.408	0.281	5.56	2111	0.402	0.262	7.85	3199	0.602	0.069	-0.740	0.444	1.360	0.704
250T125-97	0.604	0.423	1.092	0.074	0.383	0.604	0.423	9.56	2954	0.604	0.423	12.67	4476	1.745	0.101	-0.724	0.434	1.365	0.719
250T125-118	0.757	0.516	1.107	0.088	0.377	0.757	0.516	11.95	3556	0.757	0.516	17.74	5388	3.176	0.127	-0.711	0.426	1.369	0.730
250T150-27	0.181	0.137	1.078	0.037	0.486	0.139	0.082	1.61	685	0.132	0.076	2.29	833	0.042	0.044	-0.976	0.575	1.534	0.595
250T150-30	0.199	0.151	1.078	0.040	0.486	0.157	0.093	1.83	832	0.149	0.087	2.60	1024	0.056	0.049	-0.975	0.574	1.533	0.595
250T150-33	0.221	0.167	1.079	0.045	0.485	0.179	0.107	2.11	1024	0.170	0.099	2.98	1260	0.076	0.054	-0.973	0.573	1.532	0.596
250T150-43	0.289	0.217	1.080	0.058	0.483	0.252	0.154	3.03	1356	0.238	0.142	4.25	2054	0.168	0.070	-0.968	0.570	1.529	0.599
250T150-54	0.368	0.273	1.088	0.072	0.481	0.342	0.213	4.22	1692	0.325	0.197	5.89	2563	0.332	0.089	-0.961	0.566	1.529	0.605
250T150-68	0.472	0.344	1.099	0.089	0.478	0.465	0.299	5.92	2111	0.445	0.276	8.27	3199	0.663	0.114	-0.953	0.561	1.531	0.613
250T150-97	0.701	0.491	1.121	0.124	0.471	0.701	0.491	9.69	2954	0.701	0.463	13.86	4476	1.921	0.168	-0.935	0.550	1.534	0.629
250T150-118	0.879	0.599	1.137	0.148	0.466	0.879	0.599	13.56	3556	0.879	0.599	20.19	5388	3.495	0.211	-0.922	0.542	1.536	0.640
250T200-33	0.280	0.212	1.117	0.097	0.658	0.203	0.112	2.22	1024	0.191	0.104	3.12	1260	0.090	0.118	-1.418	0.813	1.921	0.455
250T200-43	0.366	0.275	1.118	0.126	0.657	0.288	0.163	3.21	1356	0.270	0.150	4.48	2054	0.198	0.153	-1.413	0.810	1.918	0.457
250T200-54	0.466	0.346	1.127	0.157	0.654	0.396	0.228	4.51	1692	0.371	0.209	6.25	2563	0.392	0.195	-1.405	0.806	1.917	0.462
250T200-68	0.600	0.437	1.139	0.196	0.652	0.548	0.324	6.41	2111	0.517	0.296	8.86	3199	0.783	0.251	-1.396	0.800	1.916	0.469
250T200-97	0.893	0.626	1.165	0.275	0.646	0.893	0.556	10.99	2954	0.856	0.510	15.27	4476	2.271	0.374	-1.376	0.789	1.915	0.484
250T200-118	1.125	0.766	1.183	0.330	0.641	1.125	0.746	14.74	3556	1.125	0.691	20.68	5388	4.134	0.471	-1.362	0.780	1.914	0.494
250T250-43	0.443	0.333	1.146	0.230	0.826	0.318	0.169	3.34	1356	0.296	0.155	4.64	2054	0.229	0.283	-1.873	1.053	2.346	0.362
250T250-54	0.565	0.419	1.155	0.287	0.824	0.440	0.238	4.70	1692	0.410	0.217	6.50	2563	0.453	0.361	-1.865	1.049	2.343	0.366
250T250-68	0.728	0.530	1.168	0.360	0.821	0.616	0.341	6.74	2111	0.576	0.310	9.27	3199	0.904	0.466	-1.855	1.043	2.341	0.372
250T250-97	1.086	0.761	1.195	0.506	0.815	1.028	0.596	11.79	2954	0.972	0.541	16.20	4476	2.622	0.696	-1.834	1.031	2.336	0.384
250T250-118	1.370	0.934	1.215	0.610	0.811	1.364	0.815	16.10	3556	1.303	0.742	22.22	5388	4.772	0.879	-1.819	1.022	2.333	0.392
250T300-54	0.664	0.492	1.176	0.470	0.989	0.477	0.245	4.85	1692	0.443	0.223	6.69	2563	0.513	0.599	-2.335	1.294	2.795	0.302
250T300-68	0.856	0.623	1.189	0.589	0.987	0.674	0.353	6.98	2111	0.626	0.319	9.56	3199	1.025	0.773	-2.324	1.288	2.791	0.307
250T300-97	1.279	0.896	1.218	0.830	0.981	1.144	0.625	12.35	2954	1.072	0.563	16.86	4476	2.973	1.158	-2.303	1.276	2.784	0.316
250T300-118	1.615	1.101	1.239	1.005	0.977	1.536	0.863	17.05	3556	1.451	0.779	23.31	5388	5.411	1.464	-2.287	1.267	2.778	0.323
250T350-54	0.763	0.565	1.192	0.712	1.151	0.510	0.251	4.96	1692	0.471	0.228	6.83	2563	0.573	0.921	-2.811	1.540	3.263	0.258
250T350-68	0.984	0.716	1.206	0.893	1.149	0.724	0.362	7.16	2111	0.669	0.327	9.79	3199	1.146	1.189	-2.800	1.534	3.258	0.261
250T350-97	1.472	1.031	1.236	1.262	1.144	1.245	0.646	12.77	2954	1.158	0.580	17.36	4476	3.323	1.784	-2.778	1.522	3.248	0.269
250T350-118	1.860	1.268	1.257	1.530	1.140	1.687	0.898	17.75	3556	1.581	0.806	24.13	5388	6.050	2.258	-2.761	1.513	3.241	0.274

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.







**TABLE 4B □ STANDARD TRACK DESIGN PROPERTIES (Continued)**

Member	Gross Properties					Effective Properties 33 ksi				Effective Properties 50 ksi				Torsional Properties					
	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	J <sub>x</sub> 1000 (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	X <sub>o</sub> (in)	m (in)	R <sub>o</sub> (in)	Beta
550T100-27	0.837	0.297	1.985	0.014	0.261	0.734	0.187	3.70	372	0.680	0.161	4.83	372	0.057	0.087	-0.383	0.253	2.039	0.965
550T100-30	0.922	0.327	1.985	0.016	0.261	0.835	0.220	4.36	499	0.779	0.191	5.71	499	0.076	0.096	-0.382	0.252	2.039	0.965
550T100-33	1.022	0.362	1.985	0.018	0.260	0.955	0.262	5.17	680	0.896	0.228	6.81	680	0.103	0.106	-0.381	0.252	2.038	0.965
550T100-43	1.332	0.471	1.986	0.023	0.258	1.312	0.400	7.91	1504	1.264	0.354	10.59	1504	0.229	0.137	-0.377	0.250	2.038	0.966
550T100-54	1.678	0.589	1.990	0.028	0.256	1.678	0.567	11.20	2739	1.661	0.513	15.36	2980	0.453	0.170	-0.373	0.247	2.041	0.967
550T100-68	2.125	0.739	1.995	0.034	0.253	2.125	0.739	16.45	4347	2.125	0.723	21.65	5350	0.904	0.214	-0.368	0.243	2.045	0.968
550T100-97	3.062	1.046	2.007	0.047	0.247	3.062	1.046	24.32	6730	3.062	1.046	36.08	10197	2.622	0.301	-0.357	0.236	2.053	0.970
550T100-118	3.767	1.269	2.014	0.055	0.243	3.767	1.269	30.42	8167	3.767	1.269	44.98	12374	4.772	0.364	-0.350	0.231	2.059	0.971
550T125-27	0.948	0.336	2.046	0.027	0.348	0.786	0.192	3.79	372	0.724	0.165	4.93	372	0.060	0.160	-0.543	0.352	2.145	0.936
550T125-30	1.045	0.370	2.046	0.030	0.347	0.897	0.226	4.47	499	0.831	0.195	5.84	499	0.081	0.176	-0.542	0.351	2.145	0.936
550T125-33	1.159	0.410	2.046	0.033	0.346	1.029	0.270	5.33	680	0.959	0.233	6.98	680	0.110	0.195	-0.541	0.350	2.145	0.936
550T125-43	1.510	0.533	2.047	0.043	0.344	1.428	0.416	8.23	1504	1.365	0.365	10.93	1504	0.244	0.252	-0.537	0.348	2.144	0.937
550T125-54	1.903	0.668	2.052	0.053	0.342	1.862	0.597	11.80	2739	1.811	0.535	16.01	2980	0.483	0.315	-0.532	0.345	2.147	0.939
550T125-68	2.412	0.839	2.058	0.066	0.339	2.412	0.807	15.95	4347	2.379	0.769	23.02	5350	0.965	0.397	-0.526	0.341	2.152	0.940
550T125-97	3.483	1.190	2.072	0.090	0.333	3.483	1.190	26.87	6730	3.483	1.190	35.62	10197	2.797	0.564	-0.514	0.333	2.161	0.943
550T125-118	4.291	1.446	2.082	0.107	0.329	4.291	1.446	33.51	8167	4.291	1.446	49.74	12374	5.092	0.687	-0.505	0.327	2.167	0.946
550T150-27	1.059	0.376	2.098	0.046	0.436	0.893	0.207	4.10	372	0.867	0.172	5.16	372	0.064	0.263	-0.716	0.456	2.259	0.900
550T150-30	1.168	0.414	2.098	0.050	0.435	0.995	0.251	4.96	499	0.972	0.207	6.19	499	0.086	0.289	-0.715	0.455	2.259	0.900
550T150-33	1.295	0.459	2.099	0.055	0.434	1.115	0.310	6.12	680	1.091	0.252	7.55	680	0.117	0.320	-0.714	0.455	2.259	0.900
550T150-43	1.688	0.596	2.099	0.072	0.432	1.516	0.468	9.25	1504	1.463	0.430	12.86	1504	0.260	0.414	-0.709	0.452	2.258	0.901
550T150-54	2.128	0.747	2.105	0.089	0.430	2.005	0.628	12.41	2739	1.928	0.595	17.81	2980	0.513	0.519	-0.704	0.449	2.261	0.903
550T150-68	2.699	0.939	2.112	0.110	0.427	2.660	0.850	16.80	4347	2.569	0.804	24.07	5350	1.025	0.655	-0.698	0.445	2.265	0.905
550T150-97	3.904	1.333	2.128	0.153	0.421	3.904	1.333	26.35	6730	3.904	1.278	38.27	10197	2.973	0.937	-0.684	0.436	2.275	0.909
550T150-118	4.815	1.623	2.139	0.182	0.416	4.815	1.623	36.73	8167	4.815	1.623	54.67	12374	5.411	1.147	-0.675	0.430	2.281	0.913
550T200-33	1.567	0.555	2.184	0.123	0.613	1.246	0.307	6.06	680	1.214	0.252	7.55	680	0.131	0.694	-1.088	0.674	2.516	0.813
550T200-43	2.043	0.722	2.185	0.160	0.611	1.690	0.495	9.79	1504	1.637	0.423	12.68	1504	0.290	0.900	-1.083	0.671	2.514	0.814
550T200-54	2.578	0.905	2.191	0.199	0.609	2.253	0.669	13.21	2739	2.153	0.630	18.86	2980	0.573	1.133	-1.077	0.668	2.517	0.817
550T200-68	3.274	1.139	2.200	0.248	0.606	3.027	0.914	18.06	4347	2.894	0.857	25.67	5350	1.146	1.434	-1.070	0.663	2.521	0.820
550T200-97	4.746	1.621	2.219	0.347	0.600	4.735	1.483	29.30	6730	4.566	1.391	41.64	10197	3.323	2.067	-1.055	0.653	2.529	0.826
550T200-118	5.863	1.976	2.232	0.416	0.595	5.863	1.935	38.25	8167	5.863	1.826	54.66	12374	6.050	2.543	-1.043	0.646	2.535	0.831
550T250-43	2.399	0.848	2.252	0.295	0.790	1.841	0.516	10.20	1504	1.790	0.419	12.55	1504	0.321	1.643	-1.484	0.899	2.810	0.721
550T250-54	3.029	1.063	2.259	0.368	0.788	2.466	0.699	13.81	2739	2.346	0.657	19.66	2980	0.634	2.070	-1.478	0.895	2.812	0.724
550T250-68	3.849	1.339	2.269	0.460	0.785	3.338	0.960	18.97	4347	3.172	0.897	26.86	5350	1.267	2.627	-1.470	0.890	2.815	0.727
550T250-97	5.588	1.908	2.290	0.646	0.779	5.314	1.580	31.23	6730	5.073	1.470	44.01	10197	3.674	3.801	-1.453	0.880	2.822	0.735
550T250-118	6.911	2.329	2.305	0.779	0.774	6.869	2.093	41.36	8167	6.601	1.949	58.36	12374	6.688	4.691	-1.441	0.872	2.826	0.740
550T300-54	3.479	1.221	2.313	0.606	0.965	2.654	0.723	14.28	2739	2.526	0.663	19.84	2980	0.694	3.390	-1.898	1.129	3.144	0.636
550T300-68	4.424	1.539	2.324	0.758	0.962	3.610	0.996	19.68	4347	3.417	0.929	27.80	5350	1.388	4.307	-1.889	1.123	3.146	0.639
550T300-97	6.430	2.196	2.347	1.068	0.956	5.816	1.654	32.68	6730	5.516	1.531	45.83	10197	4.024	6.248	-1.871	1.113	3.150	0.647
550T300-118	7.960	2.682	2.363	1.291	0.952	7.592	2.208	43.64	8167	7.232	2.042	61.13	12374	7.327	7.726	-1.858	1.105	3.153	0.653
550T350-54	3.929	1.379	2.358	0.920	1.141	2.822	0.742	14.67	2739	2.695	0.654	19.59	2980	0.755	5.149	-2.331	1.366	3.507	0.558
550T350-68	4.998	1.739	2.370	1.153	1.138	3.854	1.025	20.26	4347	3.636	0.954	28.57	5350	1.508	6.546	-2.322	1.361	3.508	0.562
550T350-97	7.272	2.483	2.394	1.627	1.132	6.262	1.712	33.83	6730	5.910	1.579	47.29	10197	4.375	9.515	-2.303	1.349	3.510	0.569
550T350-118	9.008	3.036	2.411	1.971	1.128	8.231	2.298	45.41	8167	7.792	2.115	63.31	12374	7.966	11.780	-2.289	1.341	3.511	0.575

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.

**TABLE 4B □ STANDARD TRACK DESIGN PROPERTIES (Continued)**

Member	Gross Properties					Effective Properties 33 ksi				Effective Properties 50 ksi				Torsional Properties					
	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Rx (in)	Iy (in <sup>4</sup> )	Ry (in)	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	Jx1000 (in <sup>4</sup> )	Cw (in <sup>6</sup> )	Xo (in)	m (in)	Ro (in)	Beta
600T100-27'	1.036	0.338	2.140	0.015	0.255	0.897	0.206	4.07	341	0.828	0.177	5.30	341	0.060	0.106	-0.364	0.243	2.185	0.972
600T100-30	1.142	0.372	2.140	0.016	0.255	1.022	0.243	4.80	456	0.950	0.210	6.28	456	0.081	0.117	-0.363	0.242	2.185	0.972
600T100-33	1.267	0.412	2.140	0.018	0.254	1.170	0.289	5.71	622	1.094	0.250	7.49	622	0.110	0.129	-0.362	0.241	2.185	0.973
600T100-43	1.650	0.536	2.140	0.023	0.252	1.629	0.444	8.78	1377	1.551	0.391	11.69	1377	0.244	0.166	-0.359	0.239	2.184	0.973
600T100-54	2.077	0.670	2.144	0.028	0.250	2.077	0.633	12.51	2728	2.061	0.569	17.05	2728	0.483	0.207	-0.355	0.237	2.187	0.974
600T100-68	2.629	0.841	2.149	0.035	0.247	2.629	0.841	16.62	4347	2.629	0.813	24.35	5350	0.965	0.259	-0.350	0.233	2.191	0.974
600T100-97	3.784	1.191	2.159	0.047	0.241	3.784	1.191	27.68	7359	3.784	1.191	41.07	10885	2.797	0.364	-0.340	0.226	2.199	0.976
600T100-118	4.649	1.445	2.167	0.056	0.237	4.649	1.445	34.63	8936	4.649	1.445	51.20	13539	5.092	0.440	-0.332	0.221	2.205	0.977
600T125-27'	1.168	0.381	2.204	0.028	0.340	0.958	0.210	4.16	341	0.880	0.181	5.40	341	0.064	0.196	-0.519	0.339	2.290	0.949
600T125-30	1.288	0.419	2.204	0.031	0.340	1.095	0.249	4.92	456	1.011	0.214	6.41	456	0.086	0.215	-0.518	0.338	2.289	0.949
600T125-33	1.428	0.465	2.204	0.034	0.339	1.258	0.297	5.87	622	1.169	0.256	7.66	622	0.117	0.238	-0.516	0.337	2.289	0.949
600T125-43	1.861	0.604	2.205	0.044	0.337	1.768	0.461	9.11	1377	1.670	0.402	12.05	1377	0.260	0.307	-0.513	0.335	2.288	0.950
600T125-54	2.344	0.756	2.209	0.054	0.335	2.299	0.666	13.15	2728	2.241	0.592	17.73	2728	0.513	0.384	-0.508	0.332	2.291	0.951
600T125-68	2.969	0.950	2.215	0.067	0.332	2.969	0.916	18.09	4347	2.934	0.858	25.69	5350	1.025	0.483	-0.503	0.329	2.296	0.952
600T125-97	4.281	1.347	2.228	0.092	0.326	4.281	1.347	30.43	7359	4.281	1.347	40.33	10885	2.973	0.685	-0.491	0.321	2.305	0.955
600T125-118	5.268	1.637	2.237	0.109	0.321	5.268	1.637	37.94	8936	5.268	1.637	56.32	13539	5.411	0.832	-0.483	0.315	2.311	0.956
600T150-27'	1.300	0.424	2.260	0.047	0.427	1.011	0.214	4.23	341	0.925	0.183	5.48	341	0.068	0.320	-0.686	0.441	2.400	0.918
600T150-30	1.434	0.467	2.260	0.051	0.427	1.159	0.253	5.01	456	1.065	0.217	6.50	456	0.091	0.352	-0.685	0.440	2.400	0.918
600T150-33	1.590	0.517	2.260	0.057	0.426	1.334	0.303	5.99	622	1.234	0.260	7.79	622	0.124	0.390	-0.684	0.439	2.399	0.919
600T150-43	2.072	0.673	2.261	0.073	0.424	1.890	0.474	9.36	1377	1.775	0.411	12.31	1377	0.275	0.504	-0.680	0.437	2.398	0.920
600T150-54	2.611	0.843	2.266	0.091	0.422	2.473	0.689	13.62	2728	2.400	0.609	18.24	2728	0.543	0.632	-0.675	0.434	2.401	0.921
600T150-68	3.309	1.059	2.273	0.113	0.419	3.262	0.963	19.03	4347	3.162	0.891	26.68	5350	1.086	0.797	-0.669	0.430	2.406	0.923
600T150-97	4.778	1.504	2.288	0.156	0.413	4.778	1.504	29.71	7359	4.778	1.444	43.23	10885	3.148	1.138	-0.656	0.421	2.415	0.926
600T150-118	5.886	1.829	2.298	0.186	0.409	5.886	1.829	41.41	8936	5.886	1.829	61.64	13539	5.730	1.389	-0.647	0.415	2.422	0.929
600T200-33	1.913	0.622	2.352	0.126	0.604	1.542	0.333	6.59	622	1.504	0.275	8.23	622	0.138	0.847	-1.048	0.655	2.645	0.843
600T200-43	2.494	0.809	2.353	0.163	0.602	2.076	0.565	11.16	1377	2.025	0.460	13.76	1377	0.305	1.098	-1.044	0.652	2.643	0.844
600T200-54	3.145	1.015	2.359	0.203	0.600	2.759	0.759	15.00	2728	2.641	0.717	21.48	2728	0.604	1.381	-1.038	0.649	2.646	0.846
600T200-68	3.990	1.277	2.367	0.254	0.597	3.696	1.034	20.42	4347	3.540	0.973	29.12	5350	1.206	1.746	-1.031	0.644	2.650	0.849
600T200-97	5.773	1.816	2.385	0.354	0.591	5.758	1.667	32.95	7359	5.558	1.568	46.94	10885	3.499	2.510	-1.016	0.635	2.659	0.854
600T200-118	7.122	2.214	2.398	0.426	0.586	7.122	2.170	42.88	8936	7.122	2.051	61.42	13539	6.369	3.083	-1.006	0.628	2.665	0.858
600T250-43	2.916	0.946	2.425	0.303	0.781	2.269	0.563	11.13	1377	2.210	0.457	13.67	1377	0.336	2.004	-1.436	0.878	2.925	0.759
600T250-54	3.678	1.187	2.432	0.377	0.779	3.014	0.793	15.68	2728	2.881	0.732	21.92	2728	0.664	2.523	-1.430	0.874	2.927	0.761
600T250-68	4.670	1.495	2.442	0.472	0.776	4.065	1.085	21.45	4347	3.871	1.017	30.46	5350	1.327	3.198	-1.422	0.869	2.930	0.764
600T250-97	6.767	2.129	2.462	0.662	0.770	6.441	1.775	35.08	7359	6.157	1.656	49.58	10885	3.849	4.616	-1.406	0.859	2.938	0.771
600T250-118	8.359	2.598	2.477	0.798	0.765	8.306	2.343	46.30	8936	7.990	2.188	65.51	13539	7.008	5.686	-1.394	0.852	2.943	0.776
600T300-54	4.212	1.359	2.492	0.622	0.957	3.239	0.821	16.22	2728	3.108	0.722	21.61	2728	0.725	4.129	-1.842	1.105	3.243	0.677
600T300-68	5.350	1.712	2.502	0.778	0.954	4.389	1.126	22.25	4347	4.164	1.053	31.53	5350	1.448	5.239	-1.834	1.100	3.246	0.681
600T300-97	7.762	2.442	2.524	1.096	0.948	7.034	1.857	36.69	7359	6.681	1.724	51.62	10885	4.200	7.582	-1.816	1.089	3.251	0.688
600T300-118	9.595	2.982	2.540	1.325	0.944	9.157	2.471	48.82	8936	8.734	2.291	68.59	13539	7.646	9.359	-1.803	1.082	3.255	0.693
600T350-54	4.746	1.531	2.541	0.946	1.134	3.441	0.843	16.66	2728	3.313	0.714	21.39	2728	0.785	6.265	-2.269	1.341	3.590	0.601
600T350-68	6.031	1.930	2.552	1.185	1.131	4.680	1.159	22.91	4347	4.427	1.082	32.41	5350	1.569	7.956	-2.260	1.335	3.592	0.604
600T350-97	8.756	2.755	2.576	1.672	1.125	7.563	1.922	37.98	7359	7.150	1.779	53.26	10885	4.550	11.537	-2.241	1.324	3.595	0.611
600T350-118	10.832	3.367	2.593	2.025	1.121	9.911	2.570	50.79	8936	9.396	2.372	71.03	13539	8.285	14.259	-2.228	1.316	3.598	0.616

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.







**TABLE 4B □ STANDARD TRACK DESIGN PROPERTIES (Continued)**

Member	Gross Properties					Effective Properties 33 ksi				Effective Properties 50 ksi				Torsional Properties					
	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Rx (in)	Iy (in <sup>4</sup> )	Ry (in)	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	Jx1000 (in <sup>4</sup> )	Cw (in <sup>6</sup> )	Xo (in)	m (in)	Ro (in)	Beta
925T125-43'	5.436	1.155	3.204	0.047	0.297	4.902	0.752	14.86	890	4.547	0.646	19.34	890	0.359	0.817	-0.399	0.270	3.243	0.985
925T125-54	6.834	1.447	3.207	0.058	0.296	6.607	1.112	21.98	1761	6.228	0.968	28.99	1761	0.709	1.018	-0.395	0.268	3.245	0.985
925T125-68	8.632	1.817	3.212	0.072	0.293	8.632	1.621	32.04	3528	8.429	1.440	43.11	3528	1.418	1.273	-0.391	0.265	3.249	0.986
925T125-97	12.377	2.577	3.221	0.099	0.288	12.377	2.577	58.21	8843	12.377	2.495	74.71	10291	4.112	1.787	-0.381	0.258	3.257	0.986
925T125-118	15.171	3.133	3.228	0.117	0.283	15.171	3.133	72.61	13189	15.171	3.133	107.78	16235	7.487	2.156	-0.375	0.254	3.262	0.987
925T150-43'	5.931	1.260	3.278	0.079	0.379	5.170	0.769	15.19	890	4.774	0.658	19.69	890	0.374	1.351	-0.538	0.359	3.343	0.974
925T150-54	7.458	1.579	3.281	0.099	0.377	7.013	1.144	22.61	1761	6.575	0.991	29.66	1761	0.740	1.688	-0.534	0.357	3.346	0.975
925T150-68	9.424	1.984	3.287	0.122	0.374	9.362	1.683	33.26	3528	8.962	1.484	44.42	3528	1.478	2.117	-0.529	0.353	3.350	0.975
925T150-97	13.526	2.816	3.298	0.169	0.369	13.526	2.816	55.65	8843	13.526	2.636	78.91	10291	4.287	2.990	-0.518	0.346	3.359	0.976
925T150-118	16.590	3.426	3.306	0.202	0.365	16.590	3.426	77.55	13189	16.590	3.426	115.44	16235	7.806	3.624	-0.511	0.341	3.365	0.977
925T200-43'	6.920	1.471	3.404	0.180	0.550	5.628	0.791	15.64	890	5.161	0.673	20.16	890	0.405	2.962	-0.848	0.553	3.551	0.943
925T200-54	8.706	1.843	3.409	0.225	0.547	7.706	1.188	23.47	1761	7.168	1.021	30.57	1761	0.800	3.711	-0.843	0.550	3.554	0.944
925T200-68	11.009	2.318	3.416	0.280	0.545	10.412	1.769	34.95	3528	9.868	1.544	46.22	3528	1.599	4.671	-0.837	0.546	3.559	0.945
925T200-97	15.822	3.294	3.429	0.391	0.539	15.769	3.075	60.76	8843	15.362	2.805	83.99	10291	4.638	6.647	-0.825	0.538	3.568	0.947
925T200-118	19.428	4.012	3.439	0.469	0.534	19.428	3.948	78.01	13189	19.423	3.773	112.98	16235	8.445	8.102	-0.816	0.532	3.575	0.948
925T250-43'	7.909	1.681	3.509	0.338	0.725	6.597	0.849	16.79	890	6.156	0.702	21.01	890	0.435	5.414	-1.191	0.760	3.776	0.901
925T250-54	9.954	2.107	3.515	0.421	0.723	8.526	1.356	26.79	1761	8.343	1.101	32.97	1761	0.861	6.795	-1.186	0.757	3.779	0.902
925T250-68	12.593	2.651	3.523	0.526	0.720	11.182	2.049	40.50	3528	10.855	1.781	53.33	3528	1.720	8.569	-1.179	0.752	3.784	0.903
925T250-97	18.119	3.772	3.539	0.738	0.714	17.337	3.252	64.26	8843	16.692	3.077	92.13	10291	4.989	12.249	-1.166	0.744	3.794	0.906
925T250-118	22.266	4.598	3.550	0.890	0.710	22.112	4.224	83.47	13189	21.385	3.997	119.66	16235	9.083	14.980	-1.156	0.737	3.801	0.908
925T300-54	11.202	2.371	3.604	0.700	0.901	9.136	1.349	26.66	1761	8.919	1.102	33.01	1761	0.921	11.108	-1.553	0.973	4.026	0.851
925T300-68	14.178	2.985	3.613	0.877	0.898	11.961	2.123	41.96	3528	11.637	1.771	53.01	3528	1.841	14.029	-1.546	0.969	4.031	0.853
925T300-97	20.416	4.251	3.631	1.233	0.892	18.708	3.391	67.01	8843	17.920	3.197	95.71	10291	5.339	20.111	-1.531	0.959	4.040	0.856
925T300-118	25.104	5.184	3.644	1.490	0.888	24.053	4.434	87.62	13189	23.094	4.170	124.86	16235	9.722	24.648	-1.520	0.952	4.047	0.859
925T350-54	12.450	2.636	3.681	1.072	1.080	9.699	1.343	26.54	1761	9.452	1.103	33.01	1761	0.981	16.818	-1.939	1.196	4.298	0.797
925T350-68	15.762	3.319	3.690	1.343	1.077	12.671	2.186	43.19	3528	12.360	1.762	52.74	3528	1.961	21.259	-1.931	1.192	4.302	0.798
925T350-97	22.712	4.729	3.710	1.894	1.071	19.944	3.506	69.28	8843	19.035	3.296	98.69	10291	5.690	30.536	-1.915	1.182	4.310	0.803
925T350-118	27.943	5.770	3.724	2.293	1.067	25.782	4.603	90.96	13189	24.632	4.313	129.14	16235	10.360	37.481	-1.904	1.175	4.316	0.805
1000T100-43'	6.053	1.191	3.346	0.025	0.213	5.525	0.795	15.71	822	5.140	0.685	20.51	822	0.367	0.521	-0.259	0.179	3.362	0.994
1000T100-54	7.606	1.492	3.348	0.030	0.212	7.277	1.169	23.10	1628	7.008	1.022	30.61	1628	0.725	0.646	-0.256	0.177	3.364	0.994
1000T100-68	9.598	1.873	3.352	0.037	0.209	9.507	1.667	32.95	3261	9.219	1.509	45.19	3261	1.448	0.804	-0.253	0.175	3.368	0.994
1000T100-97	13.740	2.654	3.358	0.051	0.204	13.740	2.649	52.34	8843	13.740	2.497	74.77	9507	4.200	1.116	-0.245	0.169	3.374	0.995
1000T100-118	16.821	3.224	3.363	0.060	0.200	16.821	3.224	77.27	13189	16.821	3.219	96.38	16235	7.646	1.335	-0.240	0.166	3.378	0.995
1000T125-43'	6.630	1.305	3.431	0.047	0.290	5.886	0.819	16.19	822	5.442	0.702	21.02	822	0.382	0.973	-0.379	0.259	3.464	0.988
1000T125-54	8.333	1.634	3.434	0.059	0.288	7.960	1.216	24.03	1628	7.479	1.055	31.59	1628	0.755	1.212	-0.376	0.256	3.466	0.988
1000T125-68	10.522	2.053	3.438	0.073	0.286	10.452	1.781	35.19	3261	10.155	1.575	47.15	3261	1.508	1.515	-0.372	0.253	3.470	0.989
1000T125-97	15.077	2.912	3.447	0.100	0.280	15.077	2.907	57.44	8843	15.077	2.753	82.42	9507	4.375	2.123	-0.363	0.247	3.477	0.989
1000T125-118	18.471	3.540	3.453	0.118	0.276	18.471	3.540	82.05	13189	18.471	3.535	105.85	16235	7.966	2.558	-0.357	0.243	3.482	0.990
1000T150-43'	7.207	1.419	3.507	0.080	0.370	6.195	0.837	16.54	822	5.703	0.714	21.39	822	0.397	1.612	-0.513	0.345	3.564	0.979
1000T150-54	9.061	1.777	3.511	0.100	0.368	8.430	1.249	24.69	1628	7.880	1.079	32.29	1628	0.785	2.013	-0.509	0.342	3.567	0.980
1000T150-68	11.445	2.233	3.516	0.124	0.366	11.342	1.846	36.48	3261	10.774	1.621	48.53	3261	1.569	2.522	-0.505	0.339	3.571	0.980
1000T150-97	16.413	3.170	3.526	0.171	0.360	16.413	3.165	62.54	8843	16.413	2.902	86.90	9507	4.550	3.557	-0.495	0.332	3.579	0.981
1000T150-118	20.121	3.857	3.534	0.204	0.356	20.121	3.857	87.30	13189	20.121	3.852	115.32	16235	8.285	4.307	-0.488	0.328	3.585	0.982

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.







**TABLE 4B □ STANDARD TRACK DESIGN PROPERTIES (Continued)**

Member	Gross Properties					Effective Properties 33 ksi				Effective Properties 50 ksi				Torsional Properties					
	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	Ma (in-k)	Vag (lb)	J <sub>x1000</sub> (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	X <sub>o</sub> (in)	m (in)	R <sub>o</sub> (in)	Beta
1400T350-54 <sup>1</sup>	32.711	4.608	5.248	1.187	1.000	23.405	1.956	38.65	1160	21.130	1.650	49.39	1160	1.269	43.674	-1.608	1.034	5.579	0.917
1400T350-68	41.320	5.800	5.255	1.487	0.997	32.801	3.002	59.32	2322	30.045	2.551	76.39	2322	2.535	55.038	-1.602	1.030	5.584	0.918
1400T350-97	59.271	8.257	5.271	2.095	0.991	53.470	5.659	111.83	6761	50.105	4.898	146.63	6761	7.355	78.557	-1.589	1.021	5.594	0.919
1400T350-118	72.682	10.070	5.282	2.535	0.987	68.146	7.926	156.63	12344	65.731	6.965	208.52	12344	13.394	95.978	-1.579	1.015	5.601	0.921
1600T100-68 <sup>1</sup>	33.583	4.133	5.118	0.039	0.175	29.960	2.886	57.03	2030	28.366	2.556	76.52	2030	2.173	2.238	-0.179	0.127	5.124	0.999
1600T100-97	47.964	5.865	5.122	0.053	0.170	46.522	4.872	96.27	5908	44.515	4.427	132.55	5908	6.304	3.084	-0.174	0.123	5.128	0.999
1600T100-118	58.625	7.134	5.125	0.062	0.167	58.625	6.470	127.85	10783	56.844	5.929	177.53	10783	11.478	3.669	-0.170	0.120	5.130	0.999
1600T125-68 <sup>1</sup>	35.916	4.421	5.220	0.077	0.241	32.443	3.058	60.42	2030	31.004	2.651	79.37	2030	2.233	4.273	-0.268	0.189	5.233	0.997
1600T125-97	51.322	6.276	5.226	0.105	0.237	49.844	5.273	104.19	5908	47.830	4.825	144.47	5908	6.479	5.945	-0.262	0.184	5.238	0.997
1600T125-118	62.755	7.637	5.230	0.125	0.233	62.755	6.965	137.62	10783	60.930	6.420	192.21	10783	11.797	7.126	-0.257	0.181	5.241	0.998
1600T150-68 <sup>1</sup>	38.249	4.708	5.316	0.132	0.312	34.945	3.152	62.28	2030	32.537	2.717	81.34	2030	2.294	7.188	-0.371	0.258	5.338	0.995
1600T150-97	54.681	6.686	5.323	0.182	0.307	53.172	5.674	112.12	5908	51.382	5.047	151.11	5908	6.654	10.066	-0.363	0.253	5.344	0.995
1600T150-118	66.886	8.140	5.328	0.217	0.304	66.886	7.460	147.41	10783	65.023	6.911	206.91	10783	12.117	12.124	-0.358	0.249	5.348	0.996
1600T200-68 <sup>1</sup>	42.914	5.282	5.488	0.307	0.464	37.904	3.277	64.76	2030	35.009	2.805	83.99	2030	2.415	16.123	-0.607	0.414	5.541	0.988
1600T200-97	61.398	7.508	5.497	0.428	0.459	60.199	6.052	119.60	5908	57.292	5.298	158.62	5908	7.005	22.755	-0.598	0.408	5.549	0.988
1600T200-118	75.146	9.145	5.504	0.514	0.455	75.146	8.331	164.63	10783	73.613	7.433	222.53	10783	12.755	27.568	-0.592	0.403	5.554	0.989
1600T250-68 <sup>1</sup>	47.580	5.856	5.639	0.586	0.626	40.337	3.360	66.40	2030	37.060	2.864	85.75	2030	2.535	29.878	-0.878	0.588	5.741	0.977
1600T250-97	68.116	8.329	5.650	0.821	0.620	65.163	6.285	124.19	5908	61.325	5.461	163.51	5908	7.355	42.361	-0.868	0.581	5.750	0.977
1600T250-118	83.406	10.150	5.659	0.989	0.616	83.311	8.747	172.84	10783	79.965	7.726	231.33	10783	13.394	51.497	-0.860	0.576	5.757	0.978
1600T300-68 <sup>1</sup>	52.245	6.430	5.773	0.988	0.794	42.461	3.420	67.59	2030	38.843	2.906	87.01	2030	2.656	49.199	-1.176	0.776	5.945	0.961
1600T300-97	74.833	9.151	5.786	1.388	0.788	69.230	6.453	127.52	5908	64.818	5.579	167.04	5908	7.706	69.964	-1.165	0.769	5.955	0.962
1600T300-118	91.666	11.155	5.796	1.677	0.784	89.133	9.047	178.78	10783	85.001	7.938	237.67	10783	14.032	85.244	-1.156	0.763	5.962	0.962
1600T350-68 <sup>1</sup>	56.911	7.005	5.893	1.529	0.966	44.381	3.466	68.49	2030	40.440	2.938	87.96	2030	2.777	74.780	-1.496	0.974	6.156	0.941
1600T350-97	81.550	9.972	5.907	2.155	0.960	72.896	6.583	130.07	5908	67.956	5.669	169.74	5908	8.057	106.566	-1.484	0.966	6.166	0.942
1600T350-118	99.927	12.160	5.918	2.608	0.956	94.388	9.279	183.36	10783	89.528	8.100	242.52	10783	14.671	130.044	-1.475	0.960	6.173	0.943

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.

Notes to Table 4B:

<sup>1</sup>Web-height to thickness ratio exceeds 200. Web Stiffeners are required in accordance with AISI-NAS Sections B1.2 and C3.6.1.

<sup>2</sup>Allowable Bending Moment for a fully-braced section about its major axis.

<sup>3</sup>Gross Properties are based on the full-unreduced cross section of the studs.

<sup>4</sup>Use the effective moment of inertia for deflection calculations.

**SYMBOLS:**

- |  |                                    |  |
|--|------------------------------------|--|
| I <sub>x</sub> = Strong axis moment of inertia.  | Ma = Allowable moment.             | X <sub>o</sub> = Distance from shear center to neutral axis. |
| S <sub>x</sub> = Strong axis section modulus.    | Vag = Allowable shear.             | m = Distance from shear center to mid-plane of web.          |
| R <sub>x</sub> = Strong axis radius of gyration. | J = St. Venant torsion constant.   | R <sub>o</sub> = Radii of gyration.                          |
| I <sub>y</sub> = Weak axis moment of inertia.    | C <sub>w</sub> = Warping constant. | Beta = Torsional flexural constant.                          |
| R <sub>y</sub> = Weak axis radius of gyration.   |                                    |  |

TABLE 5 ALLOWABLE HEIGHTS FOR EXTERIOR NON-LOAD BEARING WALLS<sup>1,2,3,4,5</sup>

Member	Spacing (in) oc	15 psf			20 psf			25 psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
350S162-33	12	14' 8"	12' 10"	10' 10"	13' 0"	11' 8"	9' 10"	11' 8"	10' 10"	9' 2"
350S162-33	16	13' 0"	11' 8"	9' 10"	11' 3"	10' 7"	8' 11"	10' 1" e	9' 10"	8' 4"
350S162-33	24	10' 8"	10' 2"	8' 7"	9' 2" e	9' 2" e	7' 10"	8' 3" e	8' 3" e	7' 3" e
350S162-43	12	16' 0"	14' 0"	11' 9"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"
350S162-43	16	14' 6"	12' 8"	10' 8"	13' 2"	11' 6"	9' 9"	11' 10"	10' 8"	9' 0"
350S162-43	24	12' 6"	11' 1"	9' 4"	10' 10"	10' 1"	8' 6"	9' 8"	9' 4"	7' 11"
350S162-54	12	17' 1"	15' 0"	12' 7"	15' 7"	13' 7"	11' 6"	14' 5"	12' 7"	10' 8"
350S162-54	16	15' 7"	13' 7"	11' 6"	14' 2"	12' 4"	10' 5"	13' 1"	11' 6"	9' 8"
350S162-54	24	13' 7"	11' 10"	10' 0"	12' 2"	10' 9"	9' 1"	10' 10"	10' 0"	8' 5"
350S162-68	12	18' 4"	16' 0"	13' 6"	16' 8"	14' 6"	12' 3"	15' 5"	13' 6"	11' 5"
350S162-68	16	16' 8"	14' 6"	12' 3"	15' 1"	13' 3"	11' 2"	14' 0"	12' 3"	10' 4"
350S162-68	24	14' 6"	12' 8"	10' 9"	13' 3"	11' 6"	9' 9"	12' 1"	10' 9"	9' 0"
362S137-33	12	14' 3"	12' 7"	10' 7"	12' 4"	11' 5"	9' 8"	11' 1"	10' 7"	8' 11"
362S137-33	16	12' 4"	11' 5"	9' 8"	10' 9"	10' 5"	8' 9"	9' 7"	9' 7"	8' 2"
362S137-33	24	10' 1"	10' 0"	8' 5"	8' 9" e	8' 9" e	7' 8"	7' 10" e	7' 10" e	7' 1" e
362S162-33	12	15' 1"	13' 2"	11' 1"	13' 3"	12' 0"	10' 1"	11' 11"	11' 1"	9' 5"
362S162-33	16	13' 3"	12' 0"	10' 1"	11' 6"	10' 11"	9' 2"	10' 3" e	10' 1" e	8' 6"
362S162-33	24	10' 10"	10' 6"	8' 10"	9' 5" e	9' 5" e	8' 0"	8' 5" e	8' 5" e	7' 5" e
362S200-33	12	15' 11"	13' 11"	11' 9"	13' 11"	12' 8"	10' 8"	12' 5"	11' 9"	9' 11"
362S200-33	16	13' 11"	12' 8"	10' 8"	12' 1"	11' 6"	9' 8"	10' 9" e	10' 8" e	9' 0"
362S200-33	24	11' 4" e	11' 1" e	9' 4"	9' 10" e	9' 10" e	8' 6" e	8' 10" e	8' 10" e	7' 10" e
362S137-43	12	15' 8"	13' 8"	11' 7"	14' 3"	12' 5"	10' 6"	13' 0"	11' 7"	9' 9"
362S137-43	16	14' 3"	12' 5"	10' 6"	12' 7"	11' 4"	9' 6"	11' 3"	10' 6"	8' 10"
362S137-43	24	11' 10"	10' 10"	9' 2"	10' 3"	9' 10"	8' 4"	9' 2"	9' 2"	7' 9"
362S162-43	12	16' 5"	14' 4"	12' 1"	14' 11"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"
362S162-43	16	14' 11"	13' 0"	11' 0"	13' 7"	11' 10"	10' 0"	12' 1"	11' 0"	9' 3"
362S162-43	24	12' 9"	11' 5"	9' 7"	11' 1"	10' 4"	8' 9"	9' 11"	9' 7"	8' 1"
362S200-43	12	17' 4"	15' 2"	12' 9"	15' 9"	13' 9"	11' 7"	14' 8"	12' 9"	10' 9"
362S200-43	16	15' 9"	13' 9"	11' 7"	14' 4"	12' 6"	10' 7"	13' 0"	11' 7"	9' 10"
362S200-43	24	13' 8"	12' 0"	10' 2"	11' 10"	10' 11"	9' 3"	10' 7"	10' 2"	8' 7"
362S137-54	12	16' 9"	14' 8"	12' 4"	15' 3"	13' 4"	11' 3"	14' 2"	12' 4"	10' 5"
362S137-54	16	15' 3"	13' 4"	11' 3"	13' 10"	12' 1"	10' 2"	12' 7"	11' 3"	9' 6"
362S137-54	24	13' 3"	11' 8"	9' 10"	11' 6"	10' 7"	8' 11"	10' 4"	9' 10"	8' 3"
362S162-54	12	17' 7"	15' 4"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"
362S162-54	16	16' 0"	14' 0"	11' 9"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"
362S162-54	24	14' 0"	12' 2"	10' 3"	12' 5"	11' 1"	9' 4"	11' 1"	10' 3"	8' 8"
362S200-54	12	18' 7"	16' 3"	13' 8"	16' 11"	14' 9"	12' 5"	15' 8"	13' 8"	11' 7"
362S200-54	16	16' 11"	14' 9"	12' 5"	15' 4"	13' 5"	11' 4"	14' 3"	12' 5"	10' 6"
362S200-54	24	14' 9"	12' 11"	10' 10"	13' 5"	11' 9"	9' 11"	12' 1"	10' 10"	9' 2"
362S137-68	12	17' 11"	15' 8"	13' 2"	16' 3"	14' 3"	12' 0"	15' 1"	13' 2"	11' 2"
362S137-68	16	16' 3"	14' 3"	12' 0"	14' 10"	12' 11"	10' 11"	13' 9"	12' 0"	10' 1"
362S137-68	24	14' 3"	12' 5"	10' 6"	12' 10"	11' 4"	9' 6"	11' 5"	10' 6"	8' 10"
362S162-68	12	18' 10"	16' 5"	13' 10"	17' 1"	14' 11"	12' 7"	15' 11"	13' 10"	11' 8"
362S162-68	16	17' 1"	14' 11"	12' 7"	15' 6"	13' 7"	11' 5"	14' 5"	12' 7"	10' 8"
362S162-68	24	14' 11"	13' 1"	11' 0"	13' 7"	11' 10"	10' 0"	12' 4"	11' 0"	9' 3"
362S200-68	12	19' 11"	17' 5"	14' 8"	18' 1"	15' 10"	13' 4"	16' 10"	14' 8"	12' 5"
362S200-68	16	18' 1"	15' 10"	13' 4"	16' 5"	14' 4"	12' 1"	15' 3"	13' 4"	11' 3"
362S200-68	24	15' 10"	13' 10"	11' 8"	14' 4"	12' 7"	10' 7"	13' 4"	11' 8"	9' 10"
400S137-33	12	15' 1"	13' 7"	11' 6"	13' 1"	12' 4"	10' 5"	11' 8"	11' 6"	9' 8"
400S137-33	16	13' 1"	12' 4"	10' 5"	11' 4"	11' 3"	9' 6"	10' 1" e	10' 1" e	8' 9"
400S137-33	24	10' 8"	10' 8"	9' 1"	9' 3" e	9' 3" e	8' 3" e	8' 3" e	8' 3" e	7' 8" e
400S162-33	12	16' 2"	14' 3"	12' 0"	14' 0"	12' 11"	10' 11"	12' 7"	12' 0"	10' 1"
400S162-33	16	14' 0"	12' 11"	10' 11"	12' 2"	11' 9"	9' 11"	10' 10" e	10' 10" e	9' 2"
400S162-33	24	11' 5" e	11' 4" e	9' 6"	9' 11" e	9' 11" e	8' 8" e	8' 10" e	8' 10" e	8' 0" e
400S200-33	12	17' 0"	15' 0"	12' 8"	14' 9"	13' 8"	11' 6"	13' 2" e	12' 8"	10' 8"
400S200-33	16	14' 9"	13' 8"	11' 6"	12' 9" e	12' 5" e	10' 5"	11' 5" e	11' 5" e	9' 8"
400S200-33	24	12' 0" e	11' 11" e	10' 1"	10' 5" e	10' 5" e	9' 2" e	9' 4" e	9' 4" e	8' 6" e
400S137-43	12	16' 11"	14' 9"	12' 6"	15' 4"	13' 5"	11' 4"	13' 9"	12' 6"	10' 6"
400S137-43	16	15' 4"	13' 5"	11' 4"	13' 4"	12' 2"	10' 4"	11' 11"	11' 4"	9' 7"
400S137-43	24	12' 7"	11' 9"	9' 11"	10' 10"	10' 8"	9' 0"	9' 9"	9' 9"	8' 4"
400S162-43	12	17' 9"	15' 6"	13' 1"	16' 1"	14' 1"	11' 10"	14' 10"	13' 1"	11' 0"
400S162-43	16	16' 1"	14' 1"	11' 10"	14' 4"	12' 9"	10' 9"	12' 10"	11' 10"	10' 0"
400S162-43	24	13' 6"	12' 3"	10' 4"	11' 9"	11' 2"	9' 5"	10' 6"	10' 4"	8' 9"
400S200-43	12	18' 8"	16' 4"	13' 9"	17' 0"	14' 10"	12' 6"	15' 9"	13' 9"	11' 7"
400S200-43	16	17' 0"	14' 10"	12' 6"	15' 4"	13' 6"	11' 4"	13' 9"	12' 6"	10' 7"
400S200-43	24	14' 6"	13' 0"	10' 11"	12' 7"	11' 9"	9' 11"	11' 3" e	10' 11"	9' 3"

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

TABLE 5 ■ ALLOWABLE HEIGHTS FOR EXTERIOR NON-LOAD BEARING WALLS<sup>1,2,3,4,5</sup> (Continued)

Member	Spacing (in) oc	15 psf			20 psf			25 psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S137-54	12	18' 1"	15' 10"	13' 4"	16' 6"	14' 5"	12' 2"	15' 3"	13' 4"	11' 3"
400S137-54	16	16' 6"	14' 5"	12' 2"	15' 0"	13' 1"	11' 0"	13' 5"	12' 2"	10' 3"
400S137-54	24	14' 1"	12' 7"	10' 7"	12' 3"	11' 5"	9' 8"	10' 11"	10' 7"	8' 11"
400S162-54	12	19' 0"	16' 7"	14' 0"	17' 3"	15' 1"	12' 9"	16' 0"	14' 0"	11' 10"
400S162-54	16	17' 3"	15' 1"	12' 9"	15' 8"	13' 8"	11' 7"	14' 5"	12' 9"	10' 9"
400S162-54	24	15' 1"	13' 2"	11' 1"	13' 2"	12' 0"	10' 1"	11' 9"	11' 1"	9' 4"
400S200-54	12	20' 1"	17' 6"	14' 9"	18' 3"	15' 11"	13' 5"	16' 11"	14' 9"	12' 6"
400S200-54	16	18' 3"	15' 11"	13' 5"	16' 7"	14' 6"	12' 2"	15' 4"	13' 5"	11' 4"
400S200-54	24	15' 11"	13' 11"	11' 9"	14' 4"	12' 8"	10' 8"	12' 10"	11' 9"	9' 11"
400S137-68	12	19' 4"	16' 11"	14' 3"	17' 7"	15' 5"	13' 0"	16' 4"	14' 3"	12' 0"
400S137-68	16	17' 7"	15' 5"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"
400S137-68	24	15' 5"	13' 5"	11' 4"	13' 8"	12' 2"	10' 4"	12' 3"	11' 4"	9' 7"
400S162-68	12	20' 4"	17' 9"	15' 0"	18' 6"	16' 2"	13' 7"	17' 2"	15' 0"	12' 8"
400S162-68	16	18' 6"	16' 2"	13' 7"	16' 9"	14' 8"	12' 4"	15' 7"	13' 7"	11' 6"
400S162-68	24	16' 2"	14' 1"	11' 11"	14' 8"	12' 10"	10' 10"	13' 2"	11' 11"	10' 0"
400S200-68	12	21' 6"	18' 9"	15' 10"	19' 6"	17' 1"	14' 5"	18' 1"	15' 10"	13' 4"
400S200-68	16	19' 6"	17' 1"	14' 5"	17' 9"	15' 6"	13' 1"	16' 6"	14' 5"	12' 2"
400S200-68	24	17' 1"	14' 11"	12' 7"	15' 6"	13' 6"	11' 5"	14' 4"	12' 7"	10' 7"
550S162-33	12	20' 11" e	18' 3"	15' 5"	18' 4" e	16' 7" e	14' 0"	16' 5" e	15' 5" e	13' 0" e
550S162-33	16	18' 4" e	16' 7" e	14' 0"	15' 11" e	15' 1" e	12' 8" e	14' 3" e	14' 0" e	11' 9" e
550S162-33	24	15' 0" e	14' 6" e	12' 3" e	13' 0" e	13' 0" e	11' 1" e	11' 7" e	11' 7" e	10' 4" e
550S162-43	12	22' 9"	19' 10"	16' 9"	20' 8"	18' 1"	15' 3"	19' 2"	16' 9"	14' 2"
550S162-43	16	20' 8"	18' 1"	15' 3"	18' 9"	16' 5"	13' 10"	17' 2" e	15' 3"	12' 10"
550S162-43	24	18' 1" e	15' 9"	13' 4"	15' 8" e	14' 4" e	12' 1"	14' 1" e	13' 4" e	11' 3" e
550S162-54	12	24' 5"	21' 4"	18' 0"	22' 2"	19' 4"	16' 4"	20' 7"	18' 0"	15' 2"
550S162-54	16	22' 2"	19' 4"	16' 4"	20' 2"	17' 7"	14' 10"	18' 8"	16' 4"	13' 9"
550S162-54	24	19' 4"	16' 11"	14' 3"	17' 7"	15' 4"	13' 0"	15' 10"	14' 3"	12' 0"
550S162-68	12	26' 2"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"
550S162-68	16	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 11"	20' 0"	17' 6"	14' 9"
550S162-68	24	20' 9"	18' 2"	15' 3"	18' 10"	16' 6"	13' 11"	17' 6"	15' 3"	12' 11"
600S137-33	12	20' 0"	18' 7"	15' 8"	17' 4" e	16' 11" e	14' 3"	15' 6" e	15' 6" e	13' 3" e
600S137-33	16	17' 4" e	16' 11" e	14' 3"	15' 0" e	15' 0" e	12' 11" e	13' 5" e	13' 5" e	12' 0" e
600S137-33	24	14' 2" e	14' 2" e	12' 5" e	12' 3" e	12' 3" e	11' 4" e	10' 11" e	10' 11" e	10' 6" e
600S162-33	12	22' 4" e	19' 6"	16' 6"	19' 6" e	17' 9" e	15' 0"	17' 5" e	16' 6" e	13' 11" e
600S162-33	16	19' 6" e	17' 9" e	15' 0"	16' 11" e	16' 2" e	13' 7" e	15' 1" e	15' 0" e	12' 8" e
600S162-33	24	15' 11" e	15' 6" e	13' 1" e	13' 9" e	13' 9" e	11' 11" e	12' 4" e	12' 4" e	11' 0" e
600S200-33	12	23' 4" e	20' 6" e	17' 3"	20' 3" e	18' 7" e	15' 8" e	18' 1" e	17' 3" e	14' 7" e
600S200-33	16	20' 3" e	18' 7" e	15' 8" e	17' 6" e	16' 11" e	14' 3" e	15' 8" e	15' 8" e	13' 3" e
600S200-33	24	16' 6" e	16' 3" e	13' 8" e	14' 4" e	14' 4" e	12' 5" e	12' 10" e	12' 10" e	11' 7" e
600S137-43	12	23' 4"	20' 5"	17' 3"	20' 7"	18' 6"	15' 8"	18' 5"	17' 3"	14' 6"
600S137-43	16	20' 7"	18' 6"	15' 8"	17' 10"	16' 10"	14' 2"	16' 0" e	15' 8" e	13' 2"
600S137-43	24	16' 10"	16' 2"	13' 8"	14' 7" e	14' 7" e	12' 5"	13' 0" e	13' 0" e	11' 6" e
600S162-43	12	24' 4"	21' 3"	17' 11"	22' 2"	19' 4"	16' 4"	20' 7"	17' 11"	15' 2"
600S162-43	16	22' 2"	19' 4"	16' 4"	20' 1" e	17' 7"	14' 10"	18' 3" e	16' 4" e	13' 9"
600S162-43	24	19' 3" e	16' 11"	14' 3"	16' 8" e	15' 4" e	12' 11"	14' 11" e	14' 3" e	12' 0" e
600S200-43	12	25' 7"	22' 4"	18' 10"	23' 3"	20' 4"	17' 2"	21' 5" e	18' 10"	15' 11"
600S200-43	16	23' 3"	20' 4"	17' 2"	20' 9" e	18' 5"	15' 7"	18' 7" e	17' 2" e	14' 5"
600S200-43	24	19' 7" e	17' 9" e	15' 0"	16' 11" e	16' 1" e	13' 7" e	15' 2" e	15' 0" e	12' 7" e
600S137-54	12	25' 1"	21' 11"	18' 5"	22' 9"	19' 11"	16' 9"	20' 11"	18' 5"	15' 7"
600S137-54	16	22' 9"	19' 11"	16' 9"	20' 3"	18' 1"	15' 3"	18' 2"	16' 9"	14' 2"
600S137-54	24	19' 1"	17' 4"	14' 8"	16' 7"	15' 9"	13' 4"	14' 10"	14' 8"	12' 4"
600S162-54	12	26' 2"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"
600S162-54	16	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 11"	20' 0"	17' 6"	14' 9"
600S162-54	24	20' 9"	18' 1"	15' 3"	18' 9"	16' 6"	13' 11"	16' 10" e	15' 3"	12' 11"
600S200-54	12	27' 6"	24' 0"	20' 3"	24' 11"	21' 10"	18' 5"	23' 2"	20' 3"	17' 1"
600S200-54	16	24' 11"	21' 10"	18' 5"	22' 8"	19' 10"	16' 8"	21' 1"	18' 5"	15' 6"
600S200-54	24	21' 10"	19' 1"	16' 1"	19' 10" e	17' 4"	14' 7"	17' 11" e	16' 1" e	13' 7"
600S137-68	12	26' 10"	23' 5"	19' 9"	24' 5"	21' 4"	18' 0"	22' 8"	19' 9"	16' 8"
600S137-68	16	24' 5"	21' 4"	18' 0"	22' 2"	19' 4"	16' 4"	20' 7"	18' 0"	15' 2"
600S137-68	24	21' 4"	18' 7"	15' 8"	19' 4"	16' 11"	14' 3"	17' 11"	15' 8"	13' 3"
600S162-68	12	28' 0"	24' 6"	20' 8"	25' 6"	22' 3"	18' 9"	23' 8"	20' 8"	17' 5"
600S162-68	16	25' 6"	22' 3"	18' 9"	23' 2"	20' 2"	17' 1"	21' 6"	18' 9"	15' 10"
600S162-68	24	22' 3"	19' 5"	16' 5"	20' 2"	17' 8"	14' 11"	18' 9"	16' 5"	13' 10"
600S200-68	12	29' 6"	25' 9"	21' 9"	26' 9"	23' 5"	19' 9"	24' 10"	21' 9"	18' 4"
600S200-68	16	26' 9"	23' 5"	19' 9"	24' 4"	21' 3"	17' 11"	22' 7"	19' 9"	16' 8"
600S200-68	24	23' 5"	20' 5"	17' 3"	21' 3"	18' 7"	15' 8"	19' 9"	17' 3"	14' 6"

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

TABLE 5 □ ALLOWABLE HEIGHTS FOR EXTERIOR NON-LOAD BEARING WALLS<sup>1,2,3,4,5</sup> (Continued)

Member	Spacing (in) oc	15 psf			20 psf			25 psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600S137-97	12	29' 8"	25' 11"	21' 10"	27' 0"	23' 7"	19' 10"	25' 0"	21' 10"	18' 5"
600S137-97	16	27' 0"	23' 7"	19' 10"	24' 6"	21' 5"	18' 1"	22' 9"	19' 10"	16' 9"
600S137-97	24	23' 7"	20' 7"	17' 4"	21' 5"	18' 8"	15' 9"	19' 10"	17' 4"	14' 8"
600S162-97	12	31' 1"	27' 2"	22' 11"	28' 3"	24' 8"	20' 9"	26' 2"	22' 11"	19' 4"
600S162-97	16	28' 3"	24' 8"	20' 9"	25' 8"	22' 5"	18' 11"	23' 10"	20' 9"	17' 6"
600S162-97	24	24' 8"	21' 6"	18' 2"	22' 5"	19' 7"	16' 6"	20' 9"	18' 2"	15' 4"
600S200-97	12	32' 9"	28' 7"	24' 1"	29' 9"	26' 0"	21' 11"	27' 7"	24' 1"	20' 4"
600S200-97	16	29' 9"	26' 0"	21' 11"	27' 0"	23' 7"	19' 11"	25' 1"	21' 11"	18' 6"
600S200-97	24	26' 0"	22' 8"	19' 2"	23' 7"	20' 7"	17' 5"	21' 11"	19' 2"	16' 2"
800S137-33	12	23' 5" e	23' 2" e	19' 7" e	20' 3" e	20' 3" e	17' 9" e	18' 1" e	18' 1" e	16' 6" e
800S137-33	16	20' 3" e	20' 3" e	17' 9" e	17' 6" e	17' 6" e	16' 2" e	15' 8" e	15' 8" e	15' 0" e
800S137-33	24	16' 6" e	16' 6" e	15' 6" e	14' 4" e	14' 4" e	14' 1" e	12' 10" e	12' 10" e	12' 10" e
800S162-33	12	25' 0" e	24' 2" e	20' 4" e	21' 7" e	21' 7" e	18' 6" e	19' 4" e	19' 4" e	17' 2" e
800S162-33	16	21' 7" e	21' 7" e	18' 6" e	18' 9" e	18' 9" e	16' 10" e	16' 9" e	16' 9" e	15' 7" e
800S162-33	24	17' 8" e	17' 8" e	16' 2" e	15' 3" e	15' 3" e	14' 8" e	13' 8" e	13' 8" e	13' 8" e
800S200-33	12	26' 9" e	25' 9" e	21' 8" e	23' 2" e	23' 2" e	19' 9" e	20' 9" e	20' 9" e	18' 4" e
800S200-33	16	23' 2" e	23' 2" e	19' 9" e	20' 1" e	20' 1" e	17' 11" e	17' 11" e	17' 11" e	16' 8" e
800S200-33	24	18' 11" e	18' 11" e	17' 3" e	16' 5" e	16' 5" e	15' 8" e	14' 8" e	14' 8" e	14' 6" e
800S137-43	12	28' 1"	25' 6"	21' 6"	24' 3"	23' 2"	19' 7"	21' 9" e	21' 6" e	18' 2"
800S137-43	16	24' 3"	23' 2"	19' 7"	21' 0" e	21' 0" e	17' 9"	18' 10" e	18' 10" e	16' 6" e
800S137-43	24	19' 10" e	19' 10" e	17' 1" e	17' 2" e	17' 2" e	15' 6" e	15' 4" e	15' 4" e	14' 5" e
800S162-43	12	29' 11"	26' 7"	22' 5"	25' 11" e	24' 2"	20' 4"	23' 2" e	22' 5" e	18' 11"
800S162-43	16	25' 11" e	24' 2"	20' 4"	22' 5" e	21' 11" e	18' 6"	20' 1" e	20' 1" e	17' 2" e
800S162-43	24	21' 2" e	21' 1" e	17' 9" e	18' 4" e	18' 4" e	16' 2" e	16' 5" e	16' 5" e	15' 0" e
800S200-43	12	32' 1"	28' 1"	23' 8"	29' 2" e	25' 6" e	21' 6"	26' 1" e	23' 8" e	19' 11" e
800S200-43	16	29' 2" e	25' 6" e	21' 6"	25' 3" e	23' 2" e	19' 6" e	22' 7" e	21' 6" e	18' 2" e
800S200-43	24	23' 10" e	22' 3" e	18' 9" e	20' 8" e	20' 3" e	17' 1" e	18' 5" e	18' 5" e	15' 10" e
800S137-54	12	31' 8"	27' 8"	23' 4"	27' 10"	25' 1"	21' 2"	24' 11"	23' 4"	19' 8"
800S137-54	16	27' 10"	25' 1"	21' 2"	24' 2"	22' 10"	19' 3"	21' 7"	21' 2"	17' 10"
800S137-54	24	22' 9"	21' 11"	18' 6"	19' 8" e	19' 8" e	16' 10"	17' 7" e	17' 7" e	15' 7" e
800S162-54	12	32' 11"	28' 9"	24' 3"	29' 8"	26' 1"	22' 0"	26' 6"	24' 3"	20' 5"
800S162-54	16	29' 8"	26' 1"	22' 0"	25' 8"	23' 9"	20' 0"	23' 0" e	22' 0"	18' 7"
800S162-54	24	24' 2"	22' 10"	19' 3"	21' 0" e	20' 9" e	17' 6"	18' 9" e	18' 9" e	16' 3" e
800S200-54	12	34' 6"	30' 2"	25' 5"	31' 4"	27' 5"	23' 1"	29' 1"	25' 5"	21' 5"
800S200-54	16	31' 4"	27' 5"	23' 1"	28' 6" e	24' 10"	21' 0"	26' 5" e	23' 1" e	19' 6"
800S200-54	24	27' 5" e	23' 11"	20' 2"	24' 5" e	21' 9" e	18' 4"	21' 10" e	20' 2" e	17' 0" e
800S137-68	12	34' 0"	29' 9"	25' 1"	30' 11"	27' 0"	22' 9"	28' 6"	25' 1"	21' 2"
800S137-68	16	30' 11"	27' 0"	22' 9"	27' 7"	24' 6"	20' 8"	24' 8"	22' 9"	19' 2"
800S137-68	24	26' 0"	23' 7"	19' 11"	22' 6"	21' 5"	18' 1"	20' 2"	19' 11"	16' 9"
800S162-68	12	35' 4"	30' 11"	26' 1"	32' 2"	28' 1"	23' 8"	29' 10"	26' 1"	22' 0"
800S162-68	16	32' 2"	28' 1"	23' 8"	29' 2"	25' 6"	21' 6"	26' 2"	23' 8"	20' 0"
800S162-68	24	27' 7"	24' 6"	20' 8"	23' 11"	22' 3"	18' 10"	21' 5"	20' 8"	17' 5"
800S200-68	12	37' 0"	32' 4"	27' 4"	33' 8"	29' 5"	24' 10"	31' 3"	27' 4"	23' 0"
800S200-68	16	33' 8"	29' 5"	24' 10"	30' 7"	26' 9"	22' 6"	28' 5"	24' 10"	20' 11"
800S200-68	24	29' 5"	25' 8"	21' 8"	26' 9"	23' 4"	19' 8"	24' 7" e	21' 8"	18' 3"
800S137-97	12	37' 9"	32' 11"	27' 10"	34' 3"	29' 11"	25' 3"	31' 10"	27' 10"	23' 5"
800S137-97	16	34' 3"	29' 11"	25' 3"	31' 2"	27' 2"	22' 11"	28' 11"	25' 3"	21' 4"
800S137-97	24	29' 11"	26' 2"	22' 1"	27' 2"	23' 9"	20' 1"	25' 3"	22' 1"	18' 7"
800S162-97	12	39' 3"	34' 4"	28' 11"	35' 8"	31' 2"	26' 4"	33' 2"	28' 11"	24' 5"
800S162-97	16	35' 8"	31' 2"	26' 4"	32' 5"	28' 4"	23' 11"	30' 1"	26' 4"	22' 2"
800S162-97	24	31' 2"	27' 3"	23' 0"	28' 4"	24' 9"	20' 10"	26' 4"	23' 0"	19' 5"
800S200-97	12	41' 2"	36' 0"	30' 4"	37' 5"	32' 8"	27' 7"	34' 9"	30' 4"	25' 7"
800S200-97	16	37' 5"	32' 8"	27' 7"	34' 0"	29' 9"	25' 1"	31' 7"	27' 7"	23' 3"
800S200-97	24	32' 8"	28' 7"	24' 1"	29' 9"	25' 11"	21' 11"	27' 7"	24' 1"	20' 4"

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

Notes to Table 5:

<sup>1</sup>All members formed from ASTM A1003 ST33H steel.

<sup>2</sup>Limiting heights are based on continuous lateral support of each flange over the full height of the stud.

<sup>3</sup>For deflection calculations, wind loads have been multiplied by 0.7 per the AISI Standard for Cold-Formed Steel Framing-Wall Stud Design 2004 Edition and footnote f. to IBC Table 1604.3.

<sup>4</sup>End reactions must be checked for web crippling separately.

<sup>5</sup>Cells having an e □ indicate the limiting height is controlled by stress.







**TABLE 6 □ STANDARD C-SECTION WEB CRIPPLING<sup>6</sup> (SINGLE MEMBERS) (Continued)**

Member	Fy (ksi)	Condition 1 Bearing Length (in)				Condition 2 Bearing Length (in)				Condition 3 Bearing Length (in)				Condition 4 Bearing Length (in)				Punchout Reductions <sup>3</sup>	
		1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	Rc (E1F)	Rc (I1F)
1150S__54	33	355	540	567	662	---	1080	1119	1255	199	258	266	296	798	973	999	1090	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__54	50	539	818	859	1003	---	1636	1696	1902	302	390	403	449	1210	1475	1514	1651	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__68	33	551	823	863	1003	---	1646	1702	1898	376	477	492	545	1339	1608	1648	1787	0.966 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__68	50	834	1246	1307	1520	---	2493	2579	2875	570	723	746	826	2029	2436	2497	2707	0.966 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__97	33	1074	1563	1636	1888	---	3152	3251	3592	910	1126	1159	1270	2902	3409	3484	3745	0.966 + 0.008x <= 1.0	0.894 + 0.005x <= 1.0
1150S__97	50	1627	2369	2478	2861	---	4776	4925	5442	1378	1707	1755	1925	4397	5165	5278	5675	0.966 + 0.008x <= 1.0	0.894 + 0.005x <= 1.0
1200S__68	33	547	816	857	996	---	1640	1696	1892	363	462	476	527	1320	1585	1625	1762	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__68	50	828	1237	1298	1509	---	2485	2570	2866	551	699	721	798	2001	2402	2462	2669	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__97	33	1068	1554	1626	1877	---	3144	3242	3583	889	1101	1133	1242	2871	3372	3446	3705	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__97	50	1618	2355	2464	2844	---	4764	4912	5428	1348	1668	1716	1882	4350	5109	5222	5614	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__118	33	1554	2228	2328	2676	---	4541	4675	5140	1426	1741	1788	1951	4405	5115	5220	5587	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__118	50	2354	3375	3527	4054	---	6881	7083	7788	2161	2638	2709	2956	6675	7750	7910	8465	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1350S__68	33	535	799	838	975	---	1625	1681	1874	327	416	429	475	1266	1520	1558	1689	0.973 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1350S__68	50	810	1211	1270	1477	---	2463	2547	2840	496	630	650	719	1919	2304	2361	2560	0.973 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1350S__97	33	1049	1527	1598	1845	---	3120	3218	3556	831	1029	1058	1160	2782	3267	3339	3590	0.972 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1350S__97	50	1590	2314	2422	2796	---	4728	4875	5387	1259	1558	1603	1758	4214	4950	5060	5440	0.972 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__68	33	531	793	832	968	---	1621	1676	1869	316	401	414	458	1249	1500	1537	1666	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__68	50	805	1202	1261	1466	---	2455	2539	2831	479	608	627	694	1892	2272	2328	2525	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__97	33	1043	1519	1589	1835	---	3113	3210	3547	812	1005	1034	1134	2753	3234	3305	3553	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__97	50	1581	2301	2408	2780	---	4716	4863	5374	1230	1523	1567	1718	4171	4900	5008	5384	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__118	33	1523	2183	2281	2622	---	4501	4633	5094	1324	1617	1660	1811	4249	4933	5035	5388	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__118	50	2307	3308	3456	3973	---	6819	7020	7719	2006	2449	2515	2744	6437	7474	7628	8164	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1600S__97	33	1021	1486	1555	1796	---	3084	3180	3514	740	916	943	1033	2644	3105	3174	3412	0.979 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0
1600S__97	50	1547	2252	2357	2721	---	4673	4818	5324	1121	1388	1428	1566	4005	4705	4809	5170	0.979 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0
1600S__118	33	1494	2142	2238	2573	---	4463	4595	5052	1229	1501	1541	1681	4103	4764	4862	5204	0.978 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0
1600S__118	50	2263	3245	3391	3898	---	6762	6961	7654	1862	2274	2335	2548	6217	7219	7367	7884	0.978 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0

For SI: 1 inch = 25.4 mm, 1 pound = 4.4482 N.

**Notes:**

- <sup>1</sup>Bearing length to web height ratio, N/h, exceeds AISI-NAS limit of 2. Web stiffeners in accordance with AISI-NAS Section C3.6.1 are required.
- <sup>2</sup>Bearing Length to thickness ratio, N/t, exceeds AISI-NAS limit of 210. Web stiffeners in accordance with AISI-NAS Section C3.6.1 are required.
- <sup>3</sup>Reduction factors (Rc) are applicable for the noted web conditions, with "x" being the nearest distance between the punch-out and the edge of bearing in inches.
- <sup>4</sup>Bearing length, N, is less than AISI-NAS minimum of 3 inches for Condition 2 (Interior one flange loading). Reduction factor, Rc(I1F) is not applicable. Bearing stiffeners are required.
- <sup>5</sup>See Figure 3 for illustration of loading conditions.
  - Condition 1 □ End Reaction □ One Flange Loading
  - Condition 2 □ Interior Reaction □ One Flange Loading
  - Condition 3 □ End Reaction □ Two Flange Loading
  - Condition 4 □ Interior Reaction □ Two Flange Loading
- <sup>6</sup>C-Sections fastened to support.

**TABLE 7 □ STANDARD C-SECTION WEB CRIPPLING<sup>6</sup> (BACK-TO-BACK MEMBERS)**

Member	F <sub>y</sub> (ksi)	Condition 1 Bearing Length (in)				Condition 2 Bearing Length (in)				Condition 3 Bearing Length (in)				Condition 4 Bearing Length (in)				Punchout Reductions <sup>3</sup>		
		1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	R <sub>c</sub> (E1F)	R <sub>c</sub> (I1F)	
162S_-18	33	247	---	---	---	---	---	---	---	151	---	---	---	---	305	---	---	---	0.838 + 0.059x <= 1.0	0.875 + 0.037x <= 1.0
162S_-27	33	535	---	---	---	---	---	---	---	368	---	---	---	---	771	---	---	---	0.837 + 0.059x <= 1.0	0.875 + 0.038x <= 1.0
162S_-30	33	642	---	---	---	---	---	---	---	454	---	---	---	---	957	---	---	---	0.837 + 0.059x <= 1.0	0.875 + 0.038x <= 1.0
162S_-33	33	779	---	---	---	---	---	---	---	565	---	---	---	---	1200	---	---	---	0.836 + 0.059x <= 1.0	0.875 + 0.038x <= 1.0
162S_-43	33	1275	---	---	---	---	---	---	---	988	---	---	---	---	2132	---	---	---	0.835 + 0.060x <= 1.0	0.875 + 0.038x <= 1.0
162S_-54	33	1898	---	---	---	---	---	---	---	1569	---	---	---	---	3393	---	---	---	0.828 + 0.062x <= 1.0	0.874 + 0.039x <= 1.0
162S_-54	50	2875	---	---	---	---	---	---	---	2377	---	---	---	---	5141	---	---	---	0.828 + 0.062x <= 1.0	0.874 + 0.039x <= 1.0
162S_-68	33	2835	---	---	---	---	---	---	---	2500	---	---	---	---	5406	---	---	---	0.818 + 0.065x <= 1.0	0.872 + 0.042x <= 1.0
162S_-68	50	4296	---	---	---	---	---	---	---	3787	---	---	---	---	8191	---	---	---	0.818 + 0.065x <= 1.0	0.872 + 0.042x <= 1.0
250S_-18	33	247	---	---	---	---	---	---	---	129	---	---	---	---	261	---	---	---	0.904 + 0.036x <= 1.0	0.885 + 0.023x <= 1.0
250S_-27	33	534	---	---	---	---	---	---	---	329	---	---	---	---	688	---	---	---	0.903 + 0.036x <= 1.0	0.885 + 0.023x <= 1.0
250S_-30	33	641	---	---	---	---	---	---	---	408	---	---	---	---	861	---	---	---	0.903 + 0.036x <= 1.0	0.885 + 0.023x <= 1.0
250S_-33	33	777	---	---	---	---	---	---	---	512	---	---	---	---	1088	---	---	---	0.903 + 0.036x <= 1.0	0.885 + 0.023x <= 1.0
250S_-43	33	1273	---	---	---	---	---	---	---	910	---	---	---	---	1964	---	---	---	0.902 + 0.037x <= 1.0	0.884 + 0.023x <= 1.0
250S_-54	33	1895	---	---	---	---	---	---	---	1461	---	---	---	---	3159	---	---	---	0.900 + 0.037x <= 1.0	0.884 + 0.024x <= 1.0
250S_-54	50	2871	---	---	---	---	---	---	---	2213	---	---	---	---	4786	---	---	---	0.900 + 0.037x <= 1.0	0.884 + 0.024x <= 1.0
250S_-68	33	2832	---	---	---	---	---	---	---	2347	---	---	---	---	5077	---	---	---	0.896 + 0.039x <= 1.0	0.884 + 0.025x <= 1.0
250S_-68	50	4291	---	---	---	---	---	---	---	3557	---	---	---	---	7692	---	---	---	0.896 + 0.039x <= 1.0	0.884 + 0.025x <= 1.0
250S_-97	33	5287	---	---	---	---	---	---	---	4846	---	---	---	---	10480	---	---	---	0.888 + 0.042x <= 1.0	0.882 + 0.027x <= 1.0
250S_-97	50	8011	---	---	---	---	---	---	---	7342	---	---	---	---	15879	---	---	---	0.888 + 0.042x <= 1.0	0.882 + 0.027x <= 1.0
350S_-18	33	246	---	---	---	---	---	---	---	109	---	---	---	---	220	---	---	---	0.862 + 0.025x <= 1.0	0.879 + 0.016x <= 1.0
350S_-27	33	533	---	---	---	---	---	---	---	292	---	---	---	---	611	---	---	---	0.862 + 0.025x <= 1.0	0.879 + 0.016x <= 1.0
350S_-30	33	640	---	---	---	---	---	---	---	366	---	---	---	---	771	---	---	---	0.861 + 0.025x <= 1.0	0.879 + 0.016x <= 1.0
350S_-33	33	776	---	---	---	---	---	---	---	463	---	---	---	---	984	---	---	---	0.861 + 0.025x <= 1.0	0.878 + 0.016x <= 1.0
350S_-43	33	1272	---	---	---	---	---	---	---	838	---	---	---	---	1808	---	---	---	0.861 + 0.025x <= 1.0	0.878 + 0.016x <= 1.0
350S_-54	33	1892	---	---	---	---	---	---	---	1361	---	---	---	---	2943	---	---	---	0.858 + 0.026x <= 1.0	0.878 + 0.016x <= 1.0
350S_-54	50	2867	---	---	---	---	---	---	---	2062	---	---	---	---	4459	---	---	---	0.858 + 0.026x <= 1.0	0.878 + 0.016x <= 1.0
350S_-68	33	2829	---	---	---	---	---	---	---	2208	---	---	---	---	4776	---	---	---	0.855 + 0.026x <= 1.0	0.878 + 0.017x <= 1.0
350S_-68	50	4286	---	---	---	---	---	---	---	3346	---	---	---	---	7236	---	---	---	0.855 + 0.026x <= 1.0	0.878 + 0.017x <= 1.0
350S_-97	33	5282	---	---	---	---	---	---	---	4611	---	---	---	---	9972	---	---	---	0.847 + 0.028x <= 1.0	0.876 + 0.018x <= 1.0
350S_-97	50	8003	---	---	---	---	---	---	---	6986	---	---	---	---	15109	---	---	---	0.847 + 0.028x <= 1.0	0.876 + 0.018x <= 1.0
362S_-18	33	246	---	---	---	---	---	---	---	107	---	---	---	---	215	---	---	---	0.867 + 0.024x <= 1.0	0.879 + 0.016x <= 1.0
362S_-27	33	533	---	---	---	---	---	---	---	288	---	---	---	---	603	---	---	---	0.867 + 0.024x <= 1.0	0.879 + 0.016x <= 1.0
362S_-30	33	640	---	---	---	---	---	---	---	361	---	---	---	---	761	---	---	---	0.867 + 0.024x <= 1.0	0.879 + 0.016x <= 1.0
362S_-33	33	776	---	---	---	---	---	---	---	458	---	---	---	---	972	---	---	---	0.867 + 0.024x <= 1.0	0.879 + 0.016x <= 1.0
362S_-43	33	1271	---	---	---	---	---	---	---	830	---	---	---	---	1790	---	---	---	0.866 + 0.024x <= 1.0	0.879 + 0.016x <= 1.0
362S_-54	33	1892	---	---	---	---	---	---	---	1349	---	---	---	---	2918	---	---	---	0.864 + 0.025x <= 1.0	0.879 + 0.016x <= 1.0
362S_-54	50	2867	---	---	---	---	---	---	---	2045	---	---	---	---	4422	---	---	---	0.864 + 0.025x <= 1.0	0.879 + 0.016x <= 1.0
362S_-68	33	2828	---	---	---	---	---	---	---	2193	---	---	---	---	4742	---	---	---	0.861 + 0.025x <= 1.0	0.878 + 0.016x <= 1.0
362S_-68	50	4285	---	---	---	---	---	---	---	3322	---	---	---	---	7185	---	---	---	0.861 + 0.025x <= 1.0	0.878 + 0.016x <= 1.0
362S_-97	33	5281	---	---	---	---	---	---	---	4584	---	---	---	---	9915	---	---	---	0.854 + 0.027x <= 1.0	0.877 + 0.017x <= 1.0
362S_-97	50	8002	---	---	---	---	---	---	---	6946	---	---	---	---	15022	---	---	---	0.854 + 0.027x <= 1.0	0.877 + 0.017x <= 1.0
400S_-27	33	533	822	---	---	---	720	---	---	276	353	---	---	---	577	739	---	---	0.881 + 0.022x <= 1.0	0.881 + 0.014x <= 1.0
400S_-30	33	639	981	---	---	---	878	---	---	347	441	---	---	---	732	931	---	---	0.881 + 0.022x <= 1.0	0.881 + 0.014x <= 1.0
400S_-33	33	776	1181	---	---	---	1083	---	---	442	557	---	---	---	937	1183	---	---	0.881 + 0.022x <= 1.0	0.881 + 0.014x <= 1.0
400S_-43	33	1271	1900	---	---	---	1850	---	---	806	998	---	---	---	1739	2154	---	---	0.881 + 0.022x <= 1.0	0.881 + 0.014x <= 1.0
400S_-54	33	1891	2782	---	---	---	2844	---	---	1317	1605	---	---	---	2848	3472	---	---	0.879 + 0.022x <= 1.0	0.881 + 0.014x <= 1.0
400S_-54	50	2866	4215	---	---	---	4309	---	---	1995	2432	---	---	---	4315	5260	---	---	0.879 + 0.022x <= 1.0	0.881 + 0.014x <= 1.0
400S_-68	33	2827	4087	---	---	---	4387	---	---	2147	2578	---	---	---	4644	5576	---	---	0.876 + 0.023x <= 1.0	0.881 + 0.015x <= 1.0
400S_-68	50	4284	6193	---	---	---	6646	---	---	3253	3906	---	---	---	7036	8448	---	---	0.876 + 0.023x <= 1.0	0.881 + 0.015x <= 1.0

For SI: 1 inch = 25.4 mm, 1 pound = 4.4482 N.



**TABLE 7 □ STANDARD C-SECTION WEB CRIPPLING<sup>6</sup> (BACK-TO-BACK MEMBERS) (Continued)**

Member	Fy (ksi)	Condition 1 Bearing Length (in)				Condition 2 Bearing Length (in)				Condition 3 Bearing Length (in)				Condition 4 Bearing Length (in)				Punchout Reductions <sup>3</sup>	
		1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	Rc (E1F)	Rc (I1F)
1150S__-54	33	1880	2765	2896	3353	---	2791	2846	3035	851	1038	1065	1162	1841	2244	2304	2512	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__-54	50	2848	4189	4388	5081	---	4230	4312	4599	1290	1572	1614	1760	2789	3400	3491	3807	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__-68	33	2812	4065	4251	4898	---	4315	4392	4661	1503	1805	1850	2006	3251	3904	4001	4337	0.966 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__-68	50	4260	6160	6441	7421	---	6537	6654	7062	2278	2735	2803	3039	4926	5915	6062	6572	0.966 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1150S__-97	33	5256	7395	7713	8817	---	8463	8595	9057	3440	4040	4129	4439	7439	8738	8931	9601	0.966 + 0.008x <= 1.0	0.894 + 0.005x <= 1.0
1150S__-97	50	7963	11205	11686	13359	---	12823	13023	13722	5211	6122	6257	6726	11271	13239	13531	14547	0.966 + 0.008x <= 1.0	0.894 + 0.005x <= 1.0
1200S__-68	33	2811	4064	4250	4897	---	4311	4388	4657	1470	1765	1809	1961	3179	3817	3912	4241	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__-68	50	4259	6158	6439	7419	---	6532	6649	7056	2227	2674	2741	2971	4817	5784	5927	6426	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__-97	33	5254	7394	7711	8815	---	8457	8589	9050	3385	3976	4063	4368	7320	8598	8788	9448	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__-97	50	7961	11202	11683	13356	---	12813	13014	13712	5128	6024	6156	6619	11091	13028	13315	14315	0.968 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__-118	33	7496	10386	10815	12307	---	12381	12560	13184	5316	6173	6300	6742	11497	13350	13624	14580	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1200S__-118	50	11358	15737	16386	18647	---	18759	19031	19976	8055	9352	9545	10215	17420	20227	20643	22091	0.967 + 0.007x <= 1.0	0.894 + 0.005x <= 1.0
1350S__-68	33	2809	4061	4247	4893	---	4300	4377	4645	1374	1650	1691	1833	2971	3568	3656	3964	0.973 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1350S__-68	50	4256	6153	6434	7413	---	6515	6632	7038	2082	2500	2562	2777	4502	5406	5540	6006	0.973 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1350S__-97	33	5251	7389	7706	8809	---	8439	8571	9031	3226	3790	3873	4164	6977	8196	8377	9005	0.972 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1350S__-97	50	7956	11195	11675	13347	---	12787	12987	13684	4888	5742	5868	6309	10572	12418	12692	13645	0.972 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__-68	33	2808	4060	4245	4892	---	4297	4374	4642	1343	1613	1653	1792	2905	3488	3574	3875	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__-68	50	4255	6151	6433	7411	---	6510	6627	7033	2035	2444	2504	2715	4401	5285	5416	5872	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__-97	33	5250	7387	7704	8807	---	8434	8566	9025	3175	3730	3812	4098	6867	8067	8245	8864	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__-97	50	7954	11192	11673	13344	---	12778	12978	13674	4811	5651	5776	6210	10405	12223	12492	13430	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__-118	33	7490	10378	10806	12297	---	12350	12529	13152	5038	5850	5970	6389	10896	12651	12912	13818	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1400S__-118	50	11349	15724	16373	18631	---	18713	18984	19927	7633	8863	9045	9680	16509	19168	19563	20936	0.974 + 0.006x <= 1.0	0.895 + 0.004x <= 1.0
1600S__-97	33	5245	7381	7698	8800	---	8412	8544	9002	2981	3502	3579	3848	6448	7574	7741	8322	0.979 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0
1600S__-97	50	7947	11183	11663	13333	---	12745	12945	13639	4517	5306	5423	5830	9769	11475	11728	12609	0.979 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0
1600S__-118	33	7484	10370	10798	12287	---	12322	12500	13121	4780	5550	5664	6062	10338	12003	12250	13110	0.978 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0
1600S__-118	50	11340	15712	16361	18617	---	18669	18940	19880	7242	8409	8582	9184	15663	18187	18561	19864	0.978 + 0.005x <= 1.0	0.895 + 0.003x <= 1.0

For SI: 1 inch = 25.4 mm, 1 pound = 4.4482 N.

**Notes:**

- <sup>1</sup>Bearing length to web height ratio, N/h, exceeds AISI-NAS limit of 2. Web stiffeners in accordance with AISI-NAS Section C3.6.1 are required.
- <sup>2</sup>Bearing Length to thickness ratio, N/t, exceeds AISI-NAS limit of 210. Web stiffeners in accordance with AISI-NAS Section C3.6.1 are required.
- <sup>3</sup>Reduction factors are applicable for the noted web conditions, with "x" being the nearest distance between the punch-out and the edge of bearing in inches.
- <sup>4</sup>Bearing length, N, is less than AISI-NAS minimum of 3 inches for Condition 2 (Interior one flange loading). Reduction factor, Rc(I1F) is not applicable. Bearing stiffeners are required.
- <sup>5</sup>See Figure 3 for illustration of loading conditions.
  - Condition 1 □ End Reaction □ One Flange Loading
  - Condition 2 □ Interior Reaction □ One Flange Loading
  - Condition 3 □ End Reaction □ Two Flange Loading
  - Condition 4 □ Interior Reaction □ Two Flange Loading
- <sup>6</sup>C-Sections fastened to support.

**TABLE 8 U CHANNELS**

Member	Design Thickness (in)	Mem. Depth (in)	Flange Width (in)	Inside Corner Radii (in)	Gross					Effective Properties 33 ksi				
					Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	M <sub>a</sub> (ft-lb)	V <sub>a</sub> (lb)
75U050-54	0.0566	0.75	0.50	0.0849	0.087	0.30	0.007	0.288	0.002	0.155	0.0072	0.019	38	315
150U050-54	0.0566	1.50	0.50	0.0849	0.129	0.44	0.039	0.547	0.003	0.144	0.0390	0.052	102	840
200U050-54	0.0566	2.00	0.50	0.0849	0.157	0.54	0.079	0.709	0.003	0.136	0.079	0.079	2	1190
250U050-54	0.0566	2.50	0.50	0.0849	0.186	0.63	0.139	0.866	0.003	0.128	0.139	0.111	3	1540

For SI: 1 inch = 25.4 mm, 1 lb = 4.4482 N.

**SYMBOLS:**

I<sub>x</sub> = Strong axis moment of inertia.      I<sub>y</sub> = Weak axis moment of inertia.      S<sub>x</sub> = Strong axis section modulus.      V<sub>a</sub> = Allowable shear.  
 R<sub>x</sub> = Strong axis radius of gyration.      R<sub>y</sub> = Weak axis radius of gyration.      M<sub>a</sub> = Allowable moment.

**U-Channel Allowable Ceiling Spans □ L/240**

Member	Span	4 psf					6 psf					13 psf					15 psf				
		Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
		24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
75U050-54	Single	3' 11"	3' 5"	3' 1"	2' 10"	2' 8"	3' 5"	3' 0"	2' 8"	2' 6"	2' 4"	2' 7"	2' 4"	2' 1"	1' 11"	1' 9"	2' 6"	2' 2"	2' 0"	1' 10"	1' 8"
	Multiple	4' 10"	4' 2"	3' 10"	3' 7"	3' 4"	4' 2"	3' 8"	3' 4"	3' 1"	2' 10"	3' 3"	2' 9"	2' 4"	2' 1"	1' 11"	3' 1"	2' 7"	2' 2"	2' 0"	1' 9"
150U050-54	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 3"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
	Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
	Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

**U-Channel Allowable Ceiling Spans □ L/360**

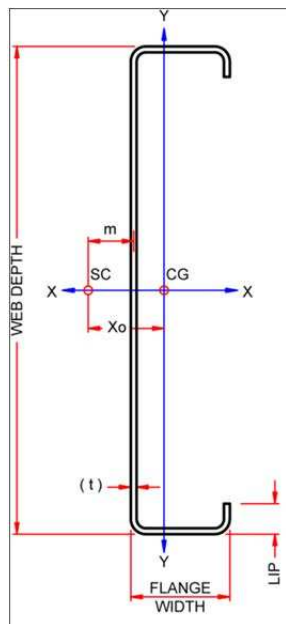
Member	Span	4 psf					6 psf					13 psf					15 psf				
		Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
		24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
75U050-54	Single	3' 5"	3' 0"	2' 8"	2' 6"	2' 4"	3' 0"	2' 7"	2' 4"	2' 2"	2' 1"	2' 4"	2' 0"	1' 10"	1' 8"	1' 7"	2' 2"	1' 11"	1' 9"	1' 7"	1' 6"
	Multiple	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	3' 8"	3' 2"	2' 11"	2' 8"	2' 7"	2' 10"	2' 6"	2' 3"	2' 1"	1' 11"	2' 8"	2' 4"	2' 2"	2' 0"	1' 9"
150U050-54	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 3"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
	Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
	Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

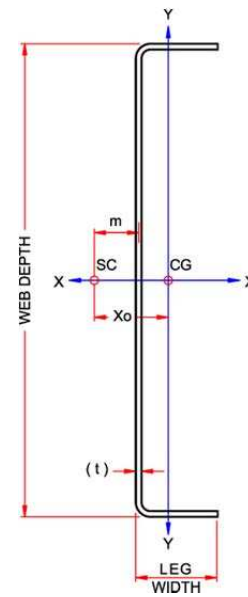
End bearing and interior bearing lengths are 0.75 inch.

TABLE 9 □ C-SECTIONS (STUDS) FOR USE WITH THE IRC

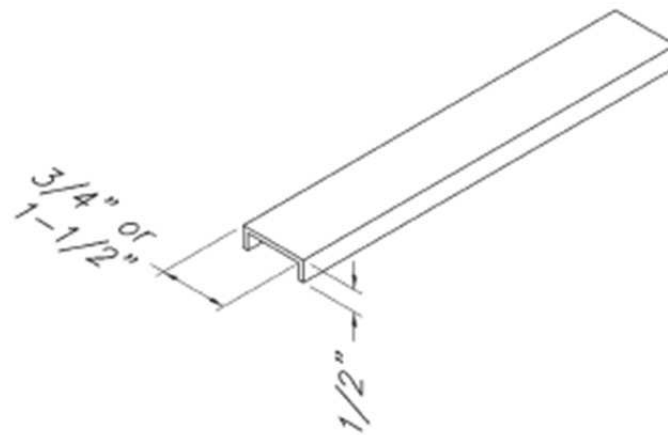
IRC MEMBER DESIGNATION	EQUIVALENT STEEL FRAMING INDUSTRY ASSOCIATION MEMBER DESIGNATION			
	t = 33	t = 43	t = 54	t = 68
350S162-t	350S162-33	350S162-43	350S162-54	350S162-68
	350S200-33	350S200-43	350S200-54	350S200-68
550S162-t	550S162-33	550S162-43	550S162-54	550S162-68
	550S200-33	550S200-43	550S200-54	550S200-68
800S162-t	800S162-33	800S162-43	800S162-54	800S162-68
	800S200-33	800S200-43	800S200-54	800S200-68
1000S162-t	---	1000S162-43	1000S162-54	1000S162-68
	---	1000S200-43	1000S200-54	1000S200-68
1200S162-t	---	---	1200S162-54	1200S162-68
	---	---	1200S200-54	1200S200-68



C-SECTIONS



TRACKS

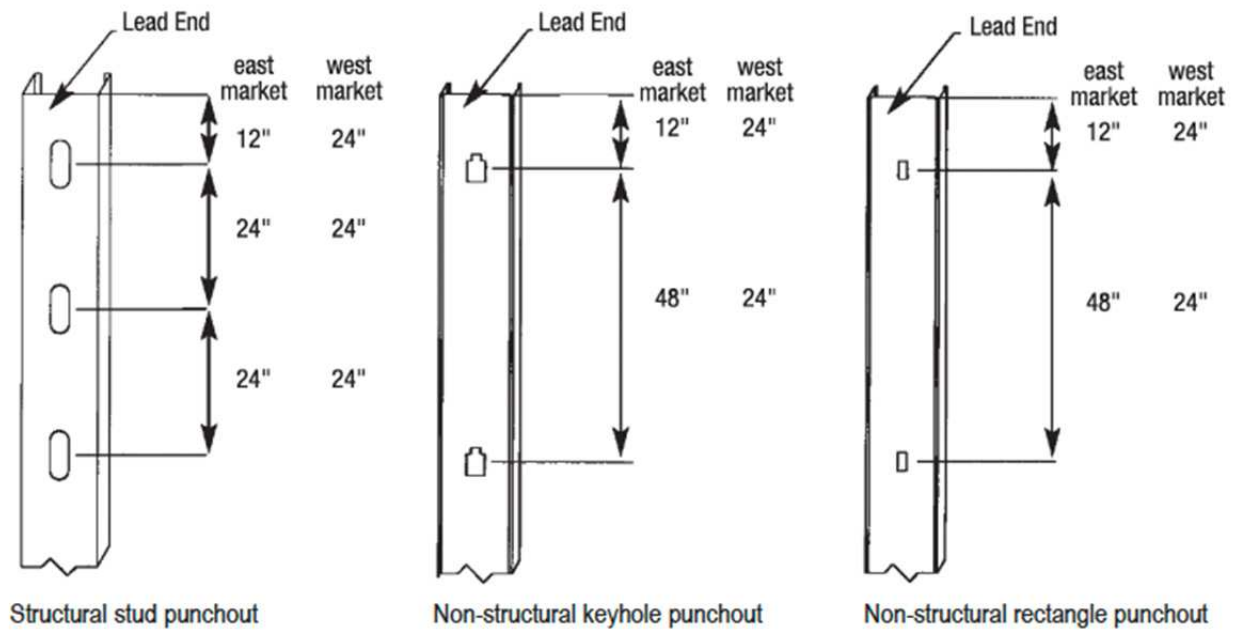


COLD-ROLLED CHANNEL  
75U50 & 150U50

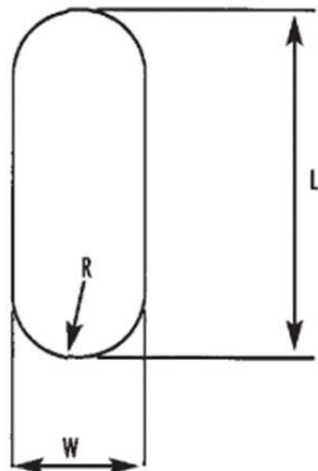
U-CHANNELS

FIGURE 1 □ STEEL FRAMING INDUSTRY ASSOCIATION



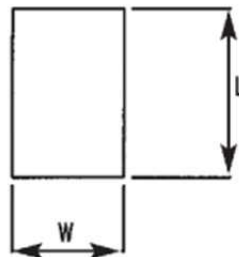


Stud sizes	250	350-1600
W	0.75"	1.5"
L	2"	4"
R	0.375"	0.75"

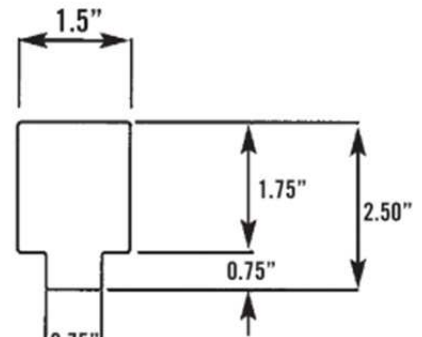


Oval punch

Stud sizes	162-250
W	0.75"
L	1.75"



Rectangle punch



Keyhole punch

FIGURE 2 PUNCH-OUTS

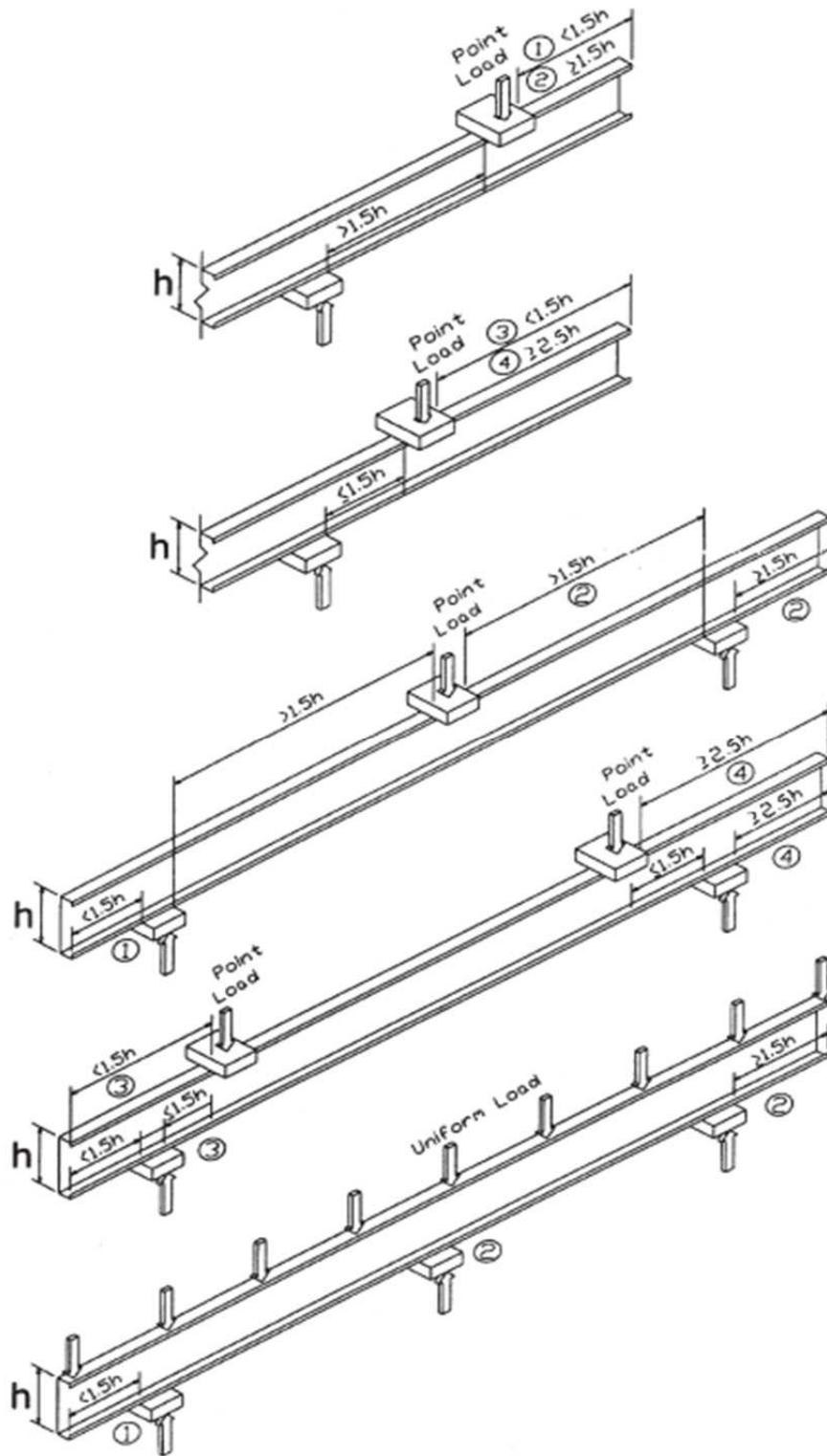


FIGURE 3 □ FLANGE LOADING CONDITONS