

The logo for Marino Ware, featuring the brand name in a bold, sans-serif font. 'MARINO' is in white on a red background, and 'WARE' is in white on a black background, separated by a small white star.

MARINO★WARE®

**COLD FORMED
STRUCTURAL
FRAMING SYSTEMS**



PRODUCT CATALOG



THE BEST PRODUCTS, QUALITY, AND CUSTOMER SERVICE.

Our large inventory of both finished products and coil steel allow us to readily satisfy your requests. Our fleet of trucks assures prompt deliveries and in many instances, next day delivery. Our experienced sales team, coupled with an extensive distribution network, make MarinoWARE® the obvious choice for your project.

MarinoWARE® a division of Ware Industries, is a long-standing manufacturer of steel framing products, and is committed to leading the industry in innovation, quality materials and customer service. Headquartered in South Plainfield, N.J., it has produced steel solutions for more than 70 years, and offers a wide choice of framing components and connectors that save their customers time, labor and cost. MarinoWARE® operates state-of-the-art production facilities in New Jersey, Georgia, Indiana and Texas, as well as a sales office in New York.

For more information on our products and services, call 1-800-627-4661 or visit www.MarinoWARE.com.

**IBC 2012
COMPLIANT**

ICC
ES
ESR-3016



Warranty & Limitations

All products presented herein are warranted to the buyer to be free from defects in material and workmanship. The foregoing warranty is non-assignable and in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. All details and specifications presented herein are intended as a general guide for the use of MarinoWARE® framing systems. These products should not be used without evaluation by a qualified engineer or architect to determine their suitability for a specific use.

MarinoWARE® assumes no responsibility for failure resulting from use of its details or specifications, or for failure resulting from improper application or installation of these products.

Governing Law

All issues arising in connection with your order and all transactions associated with it shall be interpreted according to the laws of the State of New Jersey, and all actions or other proceedings arising out of such issues shall be brought only in Superior Court, State of New Jersey, County of Essex, or United States District Court for the District of New Jersey. No action may be brought more than one year after accrual of the cause of action therefor.

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ASTM SPECIFICATION DESCRIPTIONS

A1003 - Standard specification for steel sheet, carbon, metallic and nonmetal-coated for cold formed framing members

A653 - Standard specification for steel sheet, zinc-coated (galvanized) or zinc-iron alloy coated by galvannealed hot-dip process

A924 - Standard specification for general requirements for steel sheet, metallic-coated galvannealed by the hot-dip process

C754 - Standard specification for installation of steel framing members to receive screw-attached gypsum panel products

C955 - Standard specification for load-bearing (transverse and axial) steel studs, runners (tracks), and bracing or bridging for screw application of gypsum panel products and metal plaster bases

CODE COMPLIANCE - ICC ES ESR#3016, CSSA Code Compliance Certified

AIISI DESCRIPTION

AIISI S100-12 -2012 Edition of the North American Specification for the Design of Cold-Formed Steel Structural Members

TECHNICAL SERVICES

Marino\WARE offers its customers free expert technical assistance with the selection and use of our products. If you have questions or need more information on any of the products listed in this catalog, contact our Technical Services department. Our knowledgeable staff is ready to assist you. In most cases Technical Services representatives can provide immediate responses.

Technical Services can be reached at 866-545-1545, or at engineering@marinoware.com.

LEED® INFORMATION - MATERIALS & RESOURCES

Marino\WARE® is proud to support the building industry in its efforts to create sustainable commercial and residential buildings. We support the Leadership in Energy & Environmental Design (LEED®) program and have LEED® accredited professionals on staff. Using products manufactured by Marino\WARE® can help in accumulating LEED® points in several categories.

NOMENCLATURE EXAMPLE

600 S 162 - 54			
MEMBER DEPTH	TYPE	FLANGE WIDTH	MILS TO GAUGE
250 = 2-1/2" 362 = 3-5/8" 400 = 4" 600 = 6" 800 = 8" 1000 = 10" 1200 = 12" 1400 = 14" 1600 = 16"	S = Stud T = Track	137 = 1-3/8" 162 = 1-5/8" 200 = 2" 250 = 2-1/2" 300 = 3" 350 = 3-1/2"	33 = 20 STR ga. 43 = 18 ga. 54 = 16 ga. 68 = 14 ga. 97 = 12 ga. 118 = 10 ga.

MILS	MINIMUM THICKNESS (in.)	DESIGN THICKNESS (in.)	INSIDE BEND RADIUS (in.)	GAUGE
33	0.0329	0.0346	0.076	20 Structural
43	0.0428	0.0451	0.071	18
54	0.0538	0.0566	0.085	16
68	0.0677	0.0713	0.107	14
97	0.0966	0.1017	0.153	12
118	0.1180	0.1242	0.186	10

MEMBER	FLANGE WIDTH	RETURN LIP (in.)	COLOR CODE
S137	1-3/8"	0.375	WHITE
S162	1-5/8"	0.500	YELLOW
S200	2"	0.625	GREEN
S250	2-1/2"	0.625	ORANGE
S300	3"	0.625	RED
S350	3-1/2"	1.000	BLUE

Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the project site based on section A2.4 of AISI S100-12.

Symbols and Definitions

Gross Properties

I_x	Moment of inertia about x-axis
S_x	Section modulus about x-axis
r_x	Radius about x-axis
I_y	Moment of inertia about y-axis
r_y	Radius about y-axis

Effective Properties

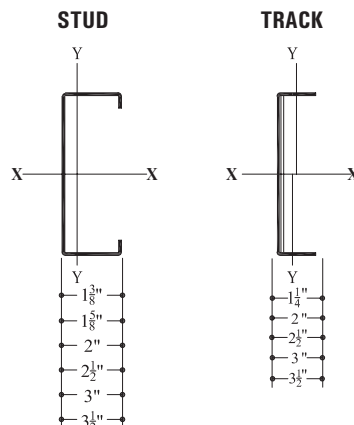
I_{xd}	Deflection moment of inertia about x-axis
S_{xe}	Section modulus about x-axis
M_{al}	Allowable moment based on local buckling
M_{ad}	Allowable moment based on distortional buckling, assuming $K_\phi = 0$
M_a	Allowable moment for track and channel sections based on local buckling
V_{ag}	Allowable strong axis shear away from punchout, per AISI Section C3.2.1
V_{anet}	Allowable strong axis shear at punchout, per AISI Section 3.2.2

Torsional and other Properties

J	Saint-Venant torsion constant. The values shown in the tables have been multiplied by 1,000. To obtain the actual values, divide table values by 1,000
C_w	Torsional warping constant
x_0	Distance from shear center to centroid along principal x-axis
m	Distance from shear center to mid-plane of web
r_0	Polar radius of gyration about shear center
B	$1 - (x_0 / r_0)^2$
L_u	Limit of unbraced length below which lateral-torsional buckling is not considered
K_ϕ	Rotational stiffness

Note:

1. Nomenclature follows the American Iron Steel Institute (AISI) Standard North American Standard for cold-formed steel framing general provisions.



FRAMING COMPONENTS

FRAMING MEMBERS

STUD AND JOISTS (CW, SW, J, JE, JX, & JXW)

Studs serve as a general all purpose framing component used in a variety of applications including exterior curtainwalls, load bearing walls, headers, floor & roof joists, soffits and truss frame components.

TRACK (T & DT)

Track is used as a closure to stud and joist ends as well as head and sill conditions. It is also used for blocking and bridging conditions.

10'-0" Standard length. Custom orders available.

C-STUDS (CW, SW, J, JE, JX & JXW)

M/W	GAUGES	WEB	FLANGE	RETURN LIP
CW	20 - 14	2-1/2" - 8"	1-3/8"	3/8"
SW	20 - 10	2-1/2" - 16"	1-5/8"	1/2"
J	20 - 10	2-1/2" - 16"	2"	5/8"
JE•	18 - 10	3-5/8" - 16"	2-1/2"	5/8"
JX•	16 - 10	3-5/8" - 16"	3"	5/8"
JXW•	16 - 10	3-5/8" - 16"	3-1/2"	1"

TRACK (T & DT)

M/W	GAUGES	FLANGE	WEB
T	20 - 10	1-1/4"	2-1/2" - 16"
DT	20 - 10	2" MIN.	2-1/2" - 16"

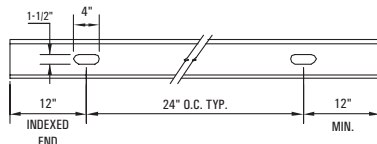
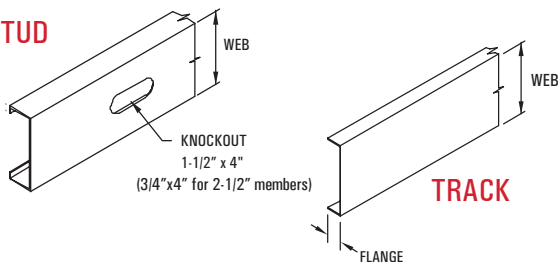
Notes:

1. Products shown with • symbol will be available subject to minimum order quantities.
2. 10'-0" standard length for track. Custom orders are available.

WEB KNOCKOUT SIZE AND LOCATION

MarinoWARE studs and joists are manufactured with knockouts in the web to accommodate mechanical and electrical installation. The knockout is provided 12" from the indexed end and the intermediate knockouts are placed at 24" o.c. intervals. Unpunched studs are available upon request.

STUD



WEB STIFFENERS (JS)

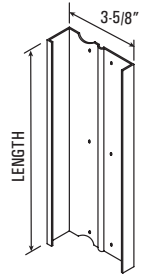
Web Stiffeners are used to provide reinforcement of joist webs to prevent crippling. Web reinforcement is often required by design to enhance the load capacity of joists.

LENGTH: 8", 9 1/4", 10", 11- 1/4, 12", 14"
(inside or outside)

WIDTH: 3-5/8"

INSTALLATION:

- Centered within the load or reaction bearing width.
- Installed on the inside or outside of the joist.
- Web stiffeners require full bearing along their supported ends.
- (4-6) #10 - 16 screws are required to attach the stiffener to the joist web using pre-punched holes.



FLAT STRAP

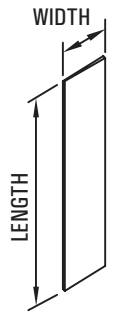
Tension component of shear wall assemblies. Component of strap & blocking for bridging applications. (See page 25 for more details.)

USE:

Tension component of shear wall assemblies.
Component of strap and blocking for bridging application.

AVAILABLE GAUGES: 20, 18, 16, 14, 12 & 10 Gauges.

LENGTH: As required by purchaser.



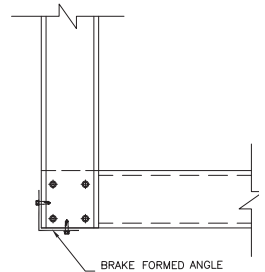
BRAKE FORMED ACCESSORIES

USE:

Miscellaneous closures, continuous angles, etc.

LENGTH:

10'-0" maximum. Dimensioned product drawing must accompany order.

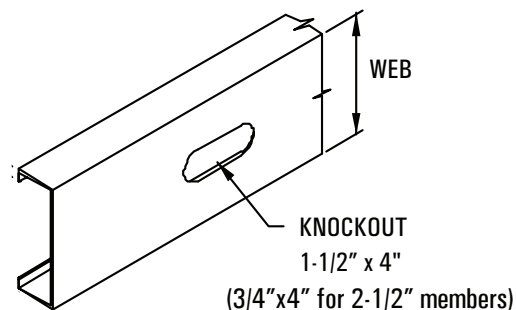


GENERAL NOTES FOR ALL TABLES



1. The information contained in this catalog is intended as a general guide only and all designs shall be verified by a design professional having experience with cold-formed steel design.
2. The data contained in this catalog is based on allowable strength design (ASD) of the 2012 Edition of the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-12 (S100).
3. The strength increase based on cold work of forming has been incorporated for flexural strength per Section A7.2 of S100.
4. Distortional buckling calculations are based on $K_\phi = 0$.
5. The effective moment of inertia for deflection is calculated at a stress that results in a section modulus such that the stress times the section modulus at that stress is equal to the allowable moment. Procedure I of S100 was used for serviceability determination.
6. Various sections may be manufactured with yield stresses of 33 or 50 ksi. The yield stress used for calculations is indicated in the tables.
7. For sections available in both 33 and 50 ksi, the specifier must clearly indicate which yield stress is required.
For example: 362S162-54 (50 ksi).
8. Sections used as nonstructural members that exceed the 10 psf load limit require an approved G60 minimum coating.
9. When provided, factory punchouts shall:
 - a. be spaced along the centerline of the web of the framing member.
 - b. have a center-to-center spacing of not less than 24" (610 mm).
 - c. have a width not greater than half the member depth or 2-1/2" (63.5 mm), whichever is less.
 - d. have a length not exceeding 4-1/2" (114 mm).
 - e. The distance from the center of the last punchout to the end of the member shall not be less than 12" (305 mm), unless otherwise specified.

Any configuration or combination of holes that fits within the punchout width and length limitations shall be permitted. Any configuration or combination of holes that fit within the punchout width and length limitations stated above shall be permitted; other punchout configurations and locations not in compliance with the stated limitations must be approved by a design professional. The punchout configuration and location illustrated below were used herein.



STRUCTURAL STUD SECTION PROPERTIES

NOTES:

1. The centerline bend radius is based on the inside bend radius shown in the steel thickness table on page 4.
2. Effective section properties incorporate the strength increase due to cold work of forming as applicable per AISI S100 (A7.2).
3. Gross section properties are based on the full-unreduced cross section of the joist/stud sections, away from the punchouts.
4. For deflection calculations, use effective moment of inertia.
5. Allowable moment is based on the lesser of local buckling, M_{al} , and distortional buckling, M_{ad} . Distortional buckling is based on an assumed $K_{\phi}=0$.
6. * - Cold work of forming applied.
7. + - Web slenderness ratio exceeds 200 and web stiffeners are required at support points and concentrated loads.
8. See General Notes on Page 6.

				GROSS PROPERTIES								EFFECTIVE PROPERTIES							TORSIONAL PROPERTIES						
MW TYPE	MEMBER	LIP (in.)	DESIGN THICKNESS (in.)	F _y (ksi)	AREA (in. ²)	WEIGHT (lb/ft)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _{al} (in.-k)	M _{ad} (in.-k)	V _{ag} (lb)	V _{anet} (lb)	Jx1000 (in. ⁴)	C _w (in. ⁹)	x ₀ (in.)	m (in.)	r ₀ (in.)	β	L _u (in.)	
212CW20	250S137-33	3/8	0.0346	33	0.197	0.671	0.203	0.163	1.02	0.0524	0.515	0.203	0.158	3.11	3.09	975	399	0.0787	0.0764	-1.14	0.677	1.61	0.499	35.6	
212CW18	250S137-43	3/8	0.0451	33	0.255	0.868	0.261	0.208	1.01	0.0665	0.511	0.261	0.205	4.53*	4.60	1265	394	0.173	0.0959	-1.13	0.670	1.60	0.501	33.6	
212CW18	250S137-43 (50)	3/8	0.0451	50	0.255	0.868	0.261	0.208	1.01	0.0665	0.511	0.261	0.197	5.89	5.82	1917	597	0.173	0.0959	-1.13	0.670	1.60	0.501	28.7	
212CW16	250S137-54	3/8	0.0566	50	0.316	1.07	0.318	0.255	1.00	0.0802	0.504	0.318	0.244	8.22*	8.34	2353	565	0.337	0.115	-1.12	0.663	1.58	0.504	27.1	
212CW14	250S137-68	3/8	0.0713	50	0.390	1.33	0.386	0.309	0.995	0.0956	0.495	0.386	0.308	10.7*	10.7	2866	519	0.661	0.138	-1.10	0.653	1.56	0.507	26.8	
212CW12	250S137-97	3/8	0.1017	50	0.533	1.82	0.507	0.406	0.975	0.121	0.476	0.507	0.406	14.8*	14.8	3798	429	1.84	0.176	-1.06	0.633	1.52	0.513	26.5	
212SW20	250S162-33	1/2	0.0346	33	0.223	0.759	0.235	0.188	1.03	0.0870	0.624	0.235	0.180	3.55	3.56	975	399	0.0891	0.146	-1.47	0.859	1.90	0.401	44.1	
212SW18	250S162-43	1/2	0.0451	33	0.289	0.983	0.302	0.242	1.02	0.111	0.620	0.302	0.240	5.22*	5.25	1265	394	0.196	0.184	-1.46	0.852	1.89	0.402	42.1	
212SW18	250S162-43 (50)	1/2	0.0451	50	0.289	0.983	0.302	0.242	1.02	0.111	0.620	0.302	0.217	6.50	6.68	1917	597	0.196	0.184	-1.46	0.852	1.89	0.402	35.7	
212SW16	250S162-54	1/2	0.0566	50	0.358	1.22	0.370	0.296	1.02	0.135	0.613	0.370	0.284	9.42*	9.46	2353	565	0.383	0.223	-1.44	0.845	1.87	0.404	33.9	
212SW14	250S162-68	1/2	0.0713	50	0.443	1.51	0.450	0.360	1.01	0.162	0.605	0.450	0.357	12.1*	12.2	2866	519	0.752	0.268	-1.42	0.835	1.85	0.405	33.7	
212SW12	250S162-97	1/2	0.1017	50	0.610	2.07	0.597	0.478	0.990	0.210	0.587	0.597	0.477	16.9*	16.9	3798	429	2.10	0.346	-1.39	0.815	1.80	0.408	36.9	
212J20	250S200-33	5/8	0.0346	33	0.258	0.877	0.279	0.223	1.04	0.154	0.773	0.273	0.197	3.90	4.09	975	399	0.103	0.302	-1.93	1.11	2.32	0.312	56.0	
212J18	250S200-43	5/8	0.0451	33	0.334	1.14	0.358	0.287	1.04	0.198	0.769	0.358	0.278	5.49	5.66	1265	394	0.227	0.382	-1.91	1.10	2.31	0.312	56.1	
212J18	250S200-43 (50)	5/8	0.0451	50	0.334	1.14	0.358	0.287	1.04	0.198	0.769	0.355	0.252	7.56	7.65	1917	597	0.227	0.382	-1.91	1.10	2.31	0.312	45.3	
212J16	250S200-54	5/8	0.0566	50	0.415	1.41	0.440	0.352	1.03	0.241	0.763	0.440	0.321	9.60	10.1	2353	565	0.443	0.464	-1.90	1.09	2.29	0.313	45.5	
212J14	250S200-68	5/8	0.0713	50	0.515	1.75	0.538	0.430	1.02	0.293	0.755	0.537	0.417	13.8*	14.3	2866	519	0.872	0.561	-1.88	1.08	2.27	0.313	43.4	
212J12	250S200-97	5/8	0.1017	50	0.711	2.42	0.719	0.575	1.01	0.386	0.737	0.719	0.575	19.8*	19.8	3798	429	2.45	0.735	-1.84	1.06	2.23	0.314	43.3	
212JE20	250S250-33	5/8	0.0346	33	0.292	0.995	0.331	0.265	1.07	0.262	0.946	0.310	0.214	4.22	4.44	975	399	0.117	0.503	-2.42	1.37	2.80	0.258	66.5	
212JE18	250S250-43	5/8	0.0451	33	0.379	1.29	0.426	0.341	1.06	0.336	0.941	0.423	0.297	5.87	6.24	1265	394	0.257	0.638	-2.40	1.36	2.79	0.258	66.8	
212JE18	250S250-43 (50)	5/8	0.0451	50	0.379	1.29	0.426	0.341	1.06	0.336	0.941	0.400	0.265	7.95	8.26	1917	597	0.257	0.638	-2.40	1.36	2.79	0.258	53.9	
212JE16	250S250-54	5/8	0.0566	50	0.471	1.60	0.524	0.419	1.06	0.412	0.935	0.505	0.341	10.2	11.0	2353	565	0.503	0.778	-2.39	1.35	2.77	0.258	54.1	
212JE14	250S250-68	5/8	0.0713	50	0.586	1.99	0.643	0.514	1.05	0.503	0.926	0.638	0.466	13.4	14.6	2866	519	0.993	0.944	-2.37	1.34	2.75	0.258	54.5	
212JE12	250S250-97	5/8	0.1017	50	0.813	2.77	0.865	0.692	1.03	0.670	0.908	0.865	0.646	22.3*	23.3	3798	429	2.80	1.25	-2.33	1.32	2.71	0.258	52.4	
358CW20	362S137-33	3/8	0.0346	33	0.236	0.804	0.479	0.264	1.42	0.059	0.501	0.479	0.232	4.59	4.73	1024	521	0.0942	0.165	-1.00	0.615	1.81	0.694	34.7	
358CW18	362S137-43	3/8	0.0451	33	0.306	1.04	0.616	0.340	1.42	0.076	0.497	0.616	0.320	6.32	6.65	1739	676	0.207	0.208	-0.991	0.608	1.80	0.697	34.6	
358CW18	362S137-43 (50)	3/8	0.0451	50	0.306	1.04	0.616	0.340	1.42	0.076	0.497	0.616	0.292	8.73	8.92	2141	832	0.207	0.208	-0.991	0.608	1.80	0.697	28.0	
358CW16	362S137-54	3/8	0.0566	50	0.379	1.29	0.756	0.417	1.41	0.091	0.490	0.756	0.381	11.4	11.9	3372	1016	0.405	0.251	-0.978	0.601	1.79	0.700	27.9	
358CW14	362S137-68	3/8	0.0713	50	0.470	1.60	0.923	0.509	1.40	0.109	0.481	0.922	0.493	14.8	15.2	4370	1004	0.797	0.302	-0.959	0.592	1.77	0.704	27.8	
358CW12	362S137-97	3/8	0.1017	50	0.648	2.20	1.23	0.678	1.38	0.138	0.461	1.23	0.662	24.1*	24.7	5943	875	2.23	0.390	-0.922	0.573	1.72	0.713	25.1	
358SW20	362S162-33	1/2	0.0346	33	0.262	0.892	0.551	0.304	1.45	0.0993	0.616	0.551	0.268	5.29	5.43	1024	521	0.105	0.297	-1.31	0.789	2.05	0.592	42.6	
358SW18	362S162-43	1/2	0.0451	33	0.340	1.16	0.710	0.392	1.45	0.127	0.611	0.710	0.372	7.34	7.62	1739	676	0.230	0.376	-1.30	0.782	2.04	0.594	42.5	
358SW18	362S162-43 (50)	1/2	0.0451	50	0.340	1.16	0.710	0.392	1.45	0.127	0.611	0.710	0.321	9.62	10.2	2141	832	0.230	0.376	-1.30	0.782	2.04	0.594	34.4	
358SW16	362S162-54	1/2	0.0566	50	0.422	1.44	0.873	0.482	1.44	0.154	0.604	0.873	0.444	13.3	13.6	3372	1016	0.451	0.457	-1.28	0.774	2.02	0.597	34.4	
358SW14	362S162-68	1/2	0.0713	50	0.524	1.78	1.07	0.590	1.43	0.186	0.596	1.07	0.574	17.2	17.7	4370	1004	0.887	0.552	-1.26	0.765	2.00	0.600	34.4	
358SW12	362S162-97	1/2	0.1017	50	0.724	2.46	1.44	0.792	1.41	0.241	0.577	1.44	0.776	27.5*	28.1	5943	875	2.50	0.723	-1.23	0.745	1.95	0.606	31.5	
358SW10	362S162-118	1/2	0.1242	50	0.863	2.94	1.67	0.923	1.39	0.274	0.563	1.67	0.904	33.1*	33.8	6996	784	4.44	0.828	-1.20	0.731	1.92	0.611	31.1	
358J20	362S200-33	5/8	0.0346	33	0.297	1.01	0.648	0.358	1.48	0.177	0.772	0.637	0.294	5.81	6.19	1024	521	0.118	0.577	-1.74	1.03	2.41	0.478	53.6	
358J18	362S200-43	5/8	0.0451	33	0.385	1.31	0.836	0.461	1.47	0.227	0.767	0.836	0.427	8.43	8.70	1739	676	0.261	0.734	-1.73	1.02	2.40	0.480	53.5	
358J18	362S200-43 (50)	5/8	0.0451	50	0.385	1.31	0.836	0.461	1.47	0.227	0.767	0.830	0.377	11.3	11.6	2141	832	0.261	0.734	-1.73	1.02	2.40	0.480	43.3	
358J16	362S200-54	5/8	0.0566	50	0.478	1.63	1.03	0.568	1.47	0.277	0.761	1.03	0.490	14.7	15.5	3372	1016	0.511	0.896	-1.72	1.02	2.38	0.482	43.3	
358J14	362S200-68	5/8	0.0713	50	0.595	2.03	1.27	0.698	1.46	0.337	0.753	1.27	0.666	20.0	20.5.										

STRUCTURAL STUD SECTION PROPERTIES

				GROSS PROPERTIES								EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES							
MW TYPE	MEMBER	LIP	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	r _x	I _y	r _y	I _{xd}	S _{xe}	M _{al}	M _{ad}	V _{ag}	V _{anet}	Jx1000	C _w	x _o	m	r _o	β	L _u	
		(in.)	(in.)	(ksi)	(in. ²)	(lb/ft)	(in. ⁴)	(in. ³)	(in.)	(in. ⁴)	(in.)	(in. ⁴)	(in. ³)	(in.-k)	(in.-k)		(lb)		(in. ⁴)	(in. ⁶)	(in.)	(in.)	(in.)		(in.)
4J20	400S200-33	5/8	0.0346	33	0.310	1.05	0.812	0.406	1.62	0.183	0.769	0.798	0.329	6.49	6.90	976	595	0.124	0.697	-1.69	1.01	2.46	0.530	53.1	
4J18	400S200-43	5/8	0.0451	33	0.402	1.37	1.05	0.524	1.62	0.235	0.764	1.05	0.478	9.45	9.74	1739	810	0.272	0.886	-1.68	1.00	2.45	0.532	53.0	
4J18	400S200-43 (50)	5/8	0.0451	50	0.402	1.37	1.05	0.524	1.62	0.235	0.764	1.04	0.422	12.6	12.9	2141	997	0.272	0.886	-1.68	1.00	2.45	0.532	43.0	
4J16	400S200-54	5/8	0.0566	50	0.500	1.70	1.29	0.646	1.61	0.287	0.758	1.29	0.549	16.4	17.3	3372	1223	0.534	1.08	-1.66	0.993	2.43	0.534	42.9	
4J14	400S200-68	5/8	0.0713	50	0.622	2.12	1.59	0.795	1.60	0.349	0.750	1.59	0.751	22.5	23.0	4871	1356	1.05	1.32	-1.64	0.983	2.41	0.536	42.9	
4J12	400S200-97	5/8	0.1017	50	0.864	2.94	2.16	1.08	1.58	0.463	0.732	2.16	1.06	36.7*	37.2	6658	1207	2.98	1.75	-1.61	0.963	2.37	0.541	40.0	
4J10	400S200-118	5/8	0.1242	50	1.03	3.52	2.53	1.27	1.57	0.533	0.718	2.53	1.25	44.2*	44.9	7869	1102	5.32	2.02	-1.58	0.948	2.34	0.544	39.6	
4JE20	400S250-33	5/8	0.0346	33	0.344	1.17	0.948	0.474	1.66	0.310	0.949	0.894	0.352	6.95	7.32	976	595	0.137	1.17	-2.15	1.26	2.88	0.441	63.7	
4JE18	400S250-43	5/8	0.0451	33	0.447	1.52	1.22	0.612	1.66	0.399	0.945	1.22	0.503	9.93	10.4	1739	810	0.303	1.49	-2.14	1.25	2.87	0.443	63.7	
4JE18	400S250-43 (50)	5/8	0.0451	50	0.447	1.52	1.22	0.612	1.66	0.399	0.945	1.15	0.436	13.1	13.6	2141	997	0.303	1.49	-2.14	1.25	2.87	0.443	51.6	
4JE16	400S250-54	5/8	0.0566	50	0.556	1.89	1.51	0.756	1.65	0.490	0.938	1.45	0.576	17.2	18.4	3372	1223	0.594	1.82	-2.12	1.24	2.85	0.444	51.6	
4JE14	400S250-68	5/8	0.0713	50	0.693	2.36	1.86	0.932	1.64	0.599	0.929	1.84	0.775	23.2	24.8	4871	1356	1.17	2.23	-2.11	1.24	2.83	0.445	51.6	
4JE12	400S250-97	5/8	0.1017	50	0.965	3.29	2.54	1.27	1.62	0.801	0.911	2.54	1.19	40.1*	41.5	6658	1207	3.33	2.98	-2.07	1.21	2.78	0.448	48.8	
4JE10	400S250-118	5/8	0.1242	50	1.16	3.94	3.00	1.50	1.61	0.932	0.897	3.00	1.44	49.4*	51.6	7869	1102	5.96	3.47	-2.04	1.20	2.75	0.450	48.5	
6CW20	600S137-33	3/8	0.0346	33	0.318	1.08	1.58	0.527	2.23	0.069	0.464	1.54	0.455	8.98	8.19	638	638	0.127	0.500	-0.807	0.519	2.42	0.889	33.5	
6CW18	600S137-43	3/8	0.0451	33	0.413	1.41	2.04	0.681	2.22	0.087	0.459	2.04	0.645	12.7	11.8	1415	1240	0.280	0.633	-0.796	0.513	2.41	0.890	33.2	
6CW18	600S137-43 (50)	3/8	0.0451	50	0.413	1.41	2.04	0.681	2.22	0.087	0.459	2.00	0.579	17.3	15.5	1415	1240	0.280	0.633	-0.796	0.513	2.41	0.890	27.0	
6CW16	600S137-54	3/8	0.0566	50	0.514	1.75	2.52	0.839	2.21	0.105	0.452	2.52	0.777	23.3	21.3	2822	1947	0.549	0.769	-0.784	0.506	2.39	0.893	26.8	
6CW14	600S137-68	3/8	0.0713	50	0.640	2.18	3.10	1.03	2.20	0.126	0.443	3.09	1.03	30.8	28.9	5350	2879	1.08	0.930	-0.768	0.497	2.37	0.895	26.5	
6CW12	600S137-97	3/8	0.1017	50	0.889	3.03	4.19	1.40	2.17	0.159	0.423	4.19	1.40	50.8*	50.8	10472	3805	3.07	1.22	-0.734	0.480	2.33	0.901	23.6	
6SW20	600S162-33	1/2	0.0346	33	0.344	1.17	1.79	0.598	2.28	0.116	0.581	1.79	0.577	11.4	9.47	638	638	0.137	0.862	-1.07	0.677	2.59	0.828	41.1	
6SW18	600S162-43	1/2	0.0451	33	0.447	1.52	2.32	0.772	2.28	0.148	0.576	2.32	0.767	16.7*	14.5	1415	1240	0.303	1.10	-1.06	0.670	2.58	0.830	39.0	
6SW18	600S162-43 (50)	1/2	0.0451	50	0.447	1.52	2.32	0.772	2.28	0.148	0.576	2.32	0.705	21.1	17.8	1415	1240	0.303	1.10	-1.06	0.670	2.58	0.830	33.2	
6SW16	600S162-54	1/2	0.0566	50	0.556	1.89	2.86	0.954	2.27	0.181	0.570	2.86	0.915	30.3*	25.9	2822	1947	0.594	1.34	-1.05	0.663	2.56	0.833	31.4	
6SW14	600S162-68	1/2	0.0713	50	0.693	2.36	3.53	1.18	2.26	0.218	0.561	3.53	1.16	39.5*	35.7	5350	2879	1.17	1.63	-1.03	0.655	2.54	0.835	30.8	
6SW12	600S162-97	1/2	0.1017	50	0.965	3.29	4.80	1.60	2.23	0.283	0.542	4.80	1.60	56.7*	56.7	10472	3805	3.33	2.15	-0.997	0.636	2.50	0.841	29.8	
6SW10	600S162-118	1/2	0.1242	50	1.16	3.94	5.65	1.89	2.21	0.322	0.527	5.65	1.88	68.9*	69.0	12526	3622	5.96	2.49	-0.971	0.623	2.47	0.846	29.1	
6J20	600S200-33	5/8	0.0346	33	0.379	1.29	2.08	0.692	2.34	0.209	0.743	2.04	0.621	12.3	10.8	638	638	0.151	1.59	-1.46	0.901	2.86	0.740	51.6	
6J18	600S200-43	5/8	0.0451	33	0.492	1.67	2.68	0.894	2.34	0.268	0.739	2.68	0.873	17.2	15.4	1415	1240	0.334	2.03	-1.45	0.894	2.84	0.742	51.4	
6J18	600S200-43 (50)	5/8	0.0451	50	0.492	1.67	2.68	0.894	2.34	0.268	0.739	2.67	0.807	24.2	20.2	1415	1240	0.334	2.03	-1.45	0.894	2.84	0.742	41.7	
6J16	600S200-54	5/8	0.0566	50	0.613	2.09	3.32	1.11	2.33	0.329	0.732	3.32	1.02	30.4	27.4	2822	1947	0.655	2.49	-1.43	0.887	2.83	0.744	41.6	
6J14	600S200-68	5/8	0.0713	50	0.764	2.60	4.10	1.37	2.32	0.400	0.723	4.10	1.32	43.7*	39.7	5350	2879	1.30	3.05	-1.42	0.878	2.81	0.746	39.3	
6J12	600S200-97	5/8	0.1017	50	1.07	3.63	5.61	1.87	2.29	0.530	0.705	5.61	1.87	64.5*	63.7	10472	3805	3.68	4.08	-1.38	0.859	2.77	0.752	38.3	
6J10	600S200-118	5/8	0.1242	50	1.28	4.36	6.64	2.21	2.28	0.612	0.691	6.64	2.21	78.4*	78.5	12526	3622	6.59	4.75	-1.35	0.845	2.74	0.756	37.6	
6JE18	600S250-43	5/8	0.0451	33	0.537	1.83	3.08	1.03	2.40	0.458	0.923	3.06	0.918	18.1	16.2	1415	1240	0.364	3.41	-1.87	1.14	3.18	0.652	62.4	
6JE18	600S250-43 (50)	5/8	0.0451	50	0.537	1.83	3.08	1.03	2.40	0.458	0.923	2.91	0.818	24.5	21.1	1415	1240	0.364	3.41	-1.87	1.14	3.18	0.652	50.6	
6JE16	600S250-54	5/8	0.0566	50	0.670	2.28	3.82	1.27	2.39	0.562	0.917	3.66	1.07	32.0	28.7	2822	1947	0.715	4.19	-1.86	1.13	3.16	0.654	50.5	
6JE14	600S250-68	5/8	0.0713	50	0.836	2.84	4.73	1.58	2.38	0.688	0.908	4.67	1.39	41.5	39.1	5350	2879	1.42	5.15	-1.84	1.12	3.14	0.657	50.4	
6JE12	600S250-97	5/8	0.1017	50	1.17	3.98	6.50	2.17	2.36	0.923	0.889	6.50	2.06	69.4*	66.8	10472	3805	4.03	6.95	-1.80	1.10	3.10	0.661	47.3	
6JE10	600S250-118	5/8	0.1242	50																					

STRUCTURAL STUD SECTION PROPERTIES

MW TYPE	MEMBER	LIP (in.)	DESIGN THICKNESS (in.)	GROSS PROPERTIES							EFFECTIVE PROPERTIES							TORSIONAL PROPERTIES						
				F _y (ksi)	AREA (in. ²)	WEIGHT (lb/ft)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _{al} (in.-k)	M _{ad} (in.-k)	V _{ag} (lb)	V _{anet} (lb)	Jx1000 (in. ⁴)	C _w (in. ⁶)	x ₀ (in.)	m (in.)	r ₀ (in.)	β	L _u (in.)
10SW20	1000S162-33+	1/2	0.0346	33	0.483	1.64	6.20	1.24	3.58	0.132	0.522	5.56	0.900	17.8	15.3	377	377	0.193	2.69	-0.832	0.550	3.72	0.950	39.1
10SW18	1000S162-43+	1/2	0.0451	33	0.627	2.13	8.03	1.61	3.58	0.168	0.518	7.48	1.30	25.7	22.5	836	836	0.425	3.43	-0.823	0.545	3.71	0.951	38.8
10SW18	1000S162-43+(50)	1/2	0.0451	50	0.627	2.13	8.03	1.61	3.58	0.168	0.518	7.26	1.10	32.9	28.9	836	836	0.425	3.43	-0.823	0.545	3.71	0.951	31.5
10SW16	1000S162-54	1/2	0.0566	50	0.783	2.66	9.95	1.99	3.57	0.204	0.511	9.31	1.57	47.1	40.4	1660	1660	0.836	4.20	-0.812	0.538	3.69	0.952	31.3
10SW14	1000S162-68	1/2	0.0713	50	0.978	3.33	12.3	2.47	3.55	0.247	0.502	11.9	2.16	64.5	56.4	3345	3345	1.66	5.12	-0.798	0.531	3.67	0.953	31.0
10SW12	1000S162-97	1/2	0.1017	50	1.37	4.67	17.0	3.39	3.52	0.320	0.483	17.0	3.27	97.9	92.6	9862	7175	4.73	6.83	-0.768	0.514	3.63	0.955	30.4
10SW10	1000S162-118	1/2	0.1242	50	1.66	5.63	20.2	4.04	3.49	0.364	0.469	20.2	4.03	121	120	16235	9536	8.51	7.92	-0.746	0.502	3.60	0.957	30.0
10J18	1000S200-43+	5/8	0.0451	33	0.672	2.29	9.09	1.82	3.68	0.309	0.677	8.55	1.47	29.1	26.2	836	836	0.456	6.24	-1.15	0.743	3.91	0.914	49.3
10J18	1000S200-43+ (50)	5/8	0.0451	50	0.672	2.29	9.09	1.82	3.68	0.309	0.677	8.27	1.27	38.0	33.7	836	836	0.456	6.24	-1.15	0.743	3.91	0.914	40.0
10J16	1000S200-54	5/8	0.0566	50	0.839	2.86	11.3	2.26	3.67	0.378	0.671	10.7	1.71	51.1	46.6	1660	1660	0.896	7.67	-1.14	0.737	3.90	0.915	39.8
10J14	1000S200-68	5/8	0.0713	50	1.05	3.57	14.0	2.80	3.65	0.460	0.662	13.6	2.42	72.5	64.5	3345	3345	1.78	9.40	-1.12	0.729	3.88	0.917	39.6
10J12	1000S200-97	5/8	0.1017	50	1.47	5.02	19.3	3.87	3.62	0.610	0.643	19.3	3.74	112	105	9862	7175	5.08	12.7	-1.09	0.711	3.84	0.920	39.0
10J10	1000S200-118	5/8	0.1242	50	1.78	6.06	23.1	4.61	3.60	0.704	0.629	23.1	4.61	138	136	16235	9536	9.15	14.8	-1.06	0.699	3.81	0.922	38.7
10JE18	1000S250-43+	5/8	0.0451	33	0.717	2.44	10.2	2.04	3.77	0.531	0.860	10.1	1.617	32.0	27.7	836	836	0.486	10.5	-1.52	0.965	4.16	0.867	60.7
10JE18	1000S250-43+ (50)	5/8	0.0451	50	0.717	2.44	10.2	2.04	3.77	0.531	0.860	9.14	1.342	40.2	35.5	836	836	0.486	10.5	-1.52	0.965	4.16	0.867	49.3
10JE16	1000S250-54	5/8	0.0566	50	0.896	3.05	12.7	2.54	3.76	0.653	0.854	12.2	1.879	56.3	49.2	1660	1660	0.957	12.9	-1.51	0.958	4.14	0.868	49.1
10JE14	1000S250-68	5/8	0.0713	50	1.12	3.81	15.8	3.15	3.75	0.799	0.844	15.6	2.769	82.9	68.1	3345	3345	1.90	15.9	-1.49	0.950	4.12	0.870	48.8
10JE12	1000S250-97	5/8	0.1017	50	1.58	5.36	21.8	4.37	3.72	1.07	0.825	21.8	4.181	141*	120	9862	7175	5.43	21.6	-1.45	0.932	4.08	0.873	45.6
10JE10	1000S250-118	5/8	0.1242	50	1.90	6.48	26.1	5.22	3.70	1.25	0.810	26.1	5.082	175*	160	16235	9536	9.79	25.5	-1.43	0.918	4.05	0.876	44.8
10JX16	1000S300-54	5/8	0.0566	50	0.953	3.24	14.1	2.82	3.85	1.02	1.04	12.8	1.903	57.0	50.7	1660	1660	1.02	19.9	-1.89	1.19	4.41	0.816	58.0
10JX14	1000S300-68	5/8	0.0713	50	1.19	4.06	17.5	3.50	3.83	1.26	1.03	16.6	2.803	83.9	70.4	3345	3345	2.02	24.6	-1.87	1.18	4.39	0.818	57.8
10JX12	1000S300-97	5/8	0.1017	50	1.68	5.71	24.3	4.87	3.81	1.70	1.01	23.9	4.498	135	116	9862	7175	5.78	33.6	-1.84	1.16	4.35	0.821	57.4
10JX10	1000S300-118	5/8	0.1242	50	2.03	6.90	29.1	5.82	3.79	2.00	0.992	29.1	5.586	188*	164	16235	9536	10.4	39.7	-1.81	1.14	4.32	0.824	53.8
10JXW16	1000S350-54	1	0.0566	50	1.05	3.58	16.2	3.25	3.93	1.77	1.30	15.1	2.33	69.7	63.0	1660	1660	1.12	36.6	-2.55	1.57	4.86	0.725	72.2
10JXW14	1000S350-68	1	0.0713	50	1.32	4.48	20.2	4.04	3.92	2.18	1.29	19.7	3.42	102	86.6	3345	3345	2.23	45.3	-2.53	1.56	4.84	0.727	72.0
10JXW12	1000S350-97	1	0.1017	50	1.86	6.31	28.2	5.63	3.90	2.99	1.27	28.1	5.12	153	140	9862	7175	6.40	62.3	-2.49	1.54	4.80	0.730	71.6
10JXW10	1000S350-118	1	0.1242	50	2.25	7.64	33.8	6.76	3.88	3.54	1.26	33.8	6.43	213*	194	16235	9536	11.5	74.0	-2.47	1.52	4.76	0.732	67.8
12SW18	1200S162-43+	1/2	0.0451	33	0.717	2.44	12.7	2.11	4.20	0.174	0.493	11.3	1.59	31.3	26.0	694	694	0.486	5.18	-0.742	0.499	4.30	0.970	37.8
12SW18	1200S162-43+(50)	1/2	0.0451	50	0.717	2.44	12.7	2.11	4.20	0.174	0.493	10.9	1.33	39.9	33.1	694	694	0.486	5.18	-0.742	0.499	4.30	0.970	30.7
12SW16	1200S162-54+	1/2	0.0566	50	0.896	3.05	15.7	2.62	4.19	0.212	0.486	14.1	1.91	57.3	46.8	1377	1377	0.957	6.34	-0.732	0.493	4.28	0.971	30.5
12SW14	1200S162-68	1/2	0.0713	50	1.12	3.81	19.5	3.25	4.17	0.255	0.477	18.3	2.65	79.2	66.2	2770	2770	1.90	7.74	-0.719	0.485	4.26	0.972	30.2
12SW12	1200S162-97	1/2	0.1017	50	1.58	5.36	27.0	4.50	4.14	0.332	0.459	26.6	4.09	122	111	8145	7410	5.43	10.3	-0.691	0.470	4.22	0.973	29.5
12SW10	1200S162-118	1/2	0.1242	50	1.90	6.48	32.2	5.36	4.11	0.377	0.445	32.1	5.17	155	147	14982	11034	9.79	12.0	-0.670	0.459	4.19	0.974	29.0
12J16	1200S200-54+	5/8	0.0566	50	0.953	3.24	17.7	2.95	4.31	0.394	0.643	16.1	2.07	62.1	54.8	1377	1377	1.02	11.6	-1.03	0.681	4.48	0.947	39.0
12J14	1200S200-68	5/8	0.0713	50	1.19	4.06	22.0	3.66	4.29	0.479	0.634	20.7	2.96	88.7	76.6	2770	2770	2.02	14.2	-1.02	0.673	4.46	0.948	38.7
12J12	1200S200-97	5/8	0.1017	50	1.68	5.71	30.4	5.07	4.26	0.635	0.615	30.1	4.66	140	127	8145	7410	5.78	19.1	-0.987	0.656	4.42	0.950	38.1
12J10	1200S200-118	5/8	0.1242	50	2.03	6.90	36.4	6.06	4.23	0.733	0.601	36.3	5.87	176	167	14982	11034	10.4	22.5	-0.964	0.644	4.38	0.952	37.7
12JE16	1200S250-54+	5/8	0.0566	50	1.01	3.43	19.7	3.28	4.42	0.683	0.823	17.3	2.15	64.3	58.4	1377	1377	1.08	19.5	-1.38	0.892	4.70	0.914	48.3
12JE14	1200S250-68	5/8	0.0713	50	1.26	4.30	24.5	4.08	4.40	0.836	0.813	22.9	3.01	90.0	81.6	2770	2770	2.14	24.0	-1.36	0.884	4.68	0.915	48.1
12JE12	1200S250-97	5/8	0.1017	50	1.78	6.05	34.0	5.67	4.37	1.12	0.794	33.7	5.04	151	135	8145	7410	6.13	32.7	-1.33	0.867	4.64	0.918	47.5
12JE10	1200S250-118	5/8	0.1242	50	2.15	7.32	40.7	6.79	4.35	1.31	0.779	40.7	6.54	196	179	14982	11034	11.1	38.6	-1.31	0.854	4.61	0.920	47.1
12JX16	1200S300-54+	5/8	0.0566	50	1.07	3.63	21.7	3.62	4.51	1.07	1.00	18.8	2.27	68.0	60.7	1377	1377	1.14	30.1	-1.74	1.11	4.94	0.876	57.4
12JX14	1200S300-68	5/8	0.0713	50	1.34	4.54	27.0	4.50	4.50	1.32	0.994	25.8	3.32	99.3	84.8	2770	2770	2.26	37.1	-1.73	1.10	4.92	0.877	57.2
12JX12	1200S300-97	5/8	0.1017	50	1.88	6.40	37.6	6.27	4.47	1.79	0.975	37.0	5.83	175	141	8145	7410	6.48	50.9	-1.69	1.09	4.88	0.880	56.7
12JX10	1200S300-118	5/8	0.1242	50	2.28	7.75	45.1	7.52	4.45	2.10	0.960	45.1	7.23	244*	202	14982	11034	11.7	60.3	-1.67	1.07	4.85	0.882	53.0
12JXW16	1200S350-54+	1	0.0566	50	1.17	3.96	24.9	4.14	4.62	1.87	1.27	22.2	2.79	83.5	75.9	1377	1377	1.24	54.3	-2.36	1.48	5.34	0.804	71.4
12JXW14	1200S350-68	1	0.0713	50	1.46	4.97	31.0	5.17	4.61	2.31	1.26	30.3	4.06	122	105	2770	2770	2.47	67.3	-2.35	1.47	5.32	0.806	71.2
12JXW12	1200S350-97	1	0.1017	50	2.06	7.01	43.3	7.21	4.59	3.16	1.24	43.3	6.59	197	171	8145	7410	7.10	92.7	-2.31	1.45	5.28	0.809	70.8

STRUCTURAL STUD SECTION PROPERTIES

				GROSS PROPERTIES								EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES							
MW TYPE	MEMBER	LIP (in.)	DESIGN THICKNESS (in.)	F _y (ksi)	AREA (in. ²)	WEIGHT (lb/ft)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _{al} (in.-k)	M _{ad} (in.-k)	V _{ag} (lb)	V _{anet} (lb)	Jx1000 (in. ⁴)	C _w (in. ⁸)	x _o (in.)	m (in.)	r _o (in.)	β	L _u (in.)	
16SW14	1600S162-68+	1/2	0.0713	50	1.41	4.78	40.9	5.12	5.40	0.268	0.436	35.6	3.62	108	81.9	2062	2062	2.38	14.8	-0.601	0.415	5.45	0.988	28.6	
16SW12	1600S162-97	1/2	0.1017	50	1.98	6.75	56.8	7.11	5.36	0.348	0.419	53.2	5.74	172	143	6042	6042	6.83	19.8	-0.577	0.401	5.40	0.989	27.9	
16SW10	1600S162-118	1/2	0.1242	50	2.40	8.17	68.0	8.51	5.32	0.394	0.405	66.0	7.40	222	194	11086	11086	12.3	23.0	-0.559	0.391	5.37	0.989	27.4	
16J14	1600S200-68+	5/8	0.0713	50	1.48	5.03	45.3	5.66	5.54	0.506	0.585	40.1	4.05	121	96.3	2062	2062	2.50	27.2	-0.862	0.584	5.64	0.977	37.1	
16J12	1600S200-97	5/8	0.1017	50	2.08	7.09	63.1	7.88	5.50	0.671	0.567	59.5	6.50	195	165	6042	6042	7.19	36.7	-0.835	0.569	5.59	0.978	36.4	
16J10	1600S200-118	5/8	0.1242	50	2.52	8.59	75.6	9.45	5.47	0.774	0.554	73.6	8.33	249	222	11086	11086	13.0	43.1	-0.815	0.558	5.56	0.979	35.9	
16JE14	1600S250-68+	5/8	0.0713	50	1.55	5.27	49.8	6.23	5.87	0.889	0.758	43.9	4.09	123	105	2062	2062	2.62	46.2	-1.17	0.778	5.84	0.960	46.5	
16JE12	1600S250-97	5/8	0.1017	50	2.19	7.44	69.5	8.69	5.84	1.19	0.739	65.9	6.98	209	179	6042	6042	7.54	63.1	-1.14	0.762	5.80	0.962	45.9	
16JE10	1600S250-118	5/8	0.1242	50	2.65	9.01	83.5	10.4	5.61	1.39	0.724	81.5	9.22	276	240	11086	11086	13.6	74.5	-1.12	0.750	5.77	0.963	45.4	
16JX14	1600S300-68+	5/8	0.0713	50	1.62	5.51	54.4	6.79	5.79	1.41	0.933	46.3	4.21	126	111	2062	2062	2.75	71.6	-1.49	0.981	6.06	0.939	55.8	
16JX12	1600S300-97	5/8	0.1017	50	2.29	7.78	75.9	9.49	5.76	1.91	0.914	71.0	7.39	221	188	6042	6042	7.89	98.3	-1.46	0.964	6.01	0.941	55.1	
16JX10	1600S300-118	5/8	0.1242	50	2.77	9.44	91.3	11.4	5.74	2.24	0.899	89.3	9.84	294	253	11086	11086	14.3	117	-1.44	0.951	5.98	0.942	54.7	
16JXW14	1600S350-68+	1	0.0713	50	1.75	5.94	61.6	7.71	5.94	2.49	1.20	55.2	5.18	155	139	2062	2062	2.96	127	-2.06	1.32	6.40	0.897	69.7	
16JXW12	1600S350-97	1	0.1017	50	2.47	8.39	86.3	10.8	5.92	3.41	1.18	82.8	8.38	251	230	6042	6042	8.50	176	-2.02	1.30	6.36	0.899	69.1	
16JXW10	1600S350-118	1	0.1242	50	2.99	10.2	104	13.0	5.90	4.04	1.16	102	11.3	338	305	11086	11086	15.4	210	-2.00	1.29	6.33	0.900	68.8	

NOTE: See page 7 for Table Notes.

Web Depth(h)-to-Thickness (t) Ratios

MIL THICKNESS	18 mil		27 mil		30 mil		33 mil		43 mil		54 mil		68 mil		97 mil		118 mil	
DESIGN THICKNESS (in.)	0.0188		0.0283		0.0312		0.0346		0.0451		0.0566		0.0712		0.1017		0.1242	
INSIDE BEND RADIUS (in.)	0.0844		0.0796		0.0782		0.0765		0.0712		0.0849		0.1069		0.1525		0.1863	
DEPTH (in.)	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t	h (in.)	h/t
1.625	1.42	75.5	1.41	49.8	1.41	45.1	1.40	40.5	1.39	30.9	1.34	23.7	1.27	17.8	1.12	11.0	1.00	8.10
2.5	2.29	122	2.28	80.7	2.28	73.1	2.28	65.8	2.27	50.3	2.22	39.2	2.14	30.1	1.99	19.6	1.88	15.1
3.625	3.42	182	3.41	121	3.41	109	3.40	98.3	3.39	75.2	3.34	59.0	3.27	45.8	3.12	30.6	3.00	24.2
4	3.79	202 ¹	3.78	134	3.78	121	3.78	109	3.77	83.5	3.72	65.7	3.64	51.1	3.49	34.3	3.38	27.2
6	5.79	*	5.78	204 ¹	5.78	185	5.78	167	5.77	128	5.72	101	5.64	79.2	5.49	54.0	5.38	43.3
8	7.79	*	7.78	*	7.78	249 ¹	7.78	225 ¹	7.77	172	7.72	136	7.64	107	7.49	73.7	7.38	59.4
10	9.79	*	9.78	*	9.78	*	9.78	*	9.77	217 ¹	9.72	172	9.64	135	9.49	93.3	9.38	75.5
12	11.8	*	11.8	*	11.8	*	11.8	*	11.8	*	11.7	207 ¹	11.6	163	11.5	113	11.4	91.6
14	13.8	*	13.8	*	13.8	*	13.8	*	13.8	*	13.7	242 ¹	13.6	191	13.5	133	13.4	108
16	15.8	*	15.8	*	15.8	*	15.8	*	15.8	*	15.7	*	15.6	219 ¹	15.5	152	15.4	124

NOTES:

1. h/t exceeds 200.
2. * h/t exceeds 260.

Allowable Screw Connection Capacities (lbs)

GAUGE DESIGNATION	MIL DESIGNATION	DESIGN THICKNESS (in.)	F _y (ksi)	F _u (ksi)	#6 SCREW (P _{ss} = 643 lbs, P _{ts} = 419 lbs) 0.138" dia, 0.272" Head			#8 SCREW (P _{ss} = 1278 lbs, P _{ts} = 586 lbs) 0.164" dia, 0.272" Head			#10 SCREW (P _{ss} = 1644 lbs, P _{ts} = 419 lbs) 0.190" dia, 0.340" Head			#12 SCREW (P _{ss} = 2330 lbs, P _{ts} = 419 lbs) 0.216" dia, 0.340" Head			#14 SCREW (P _{ss} = 3048 lbs, P _{ts} = 419 lbs) 0.250" dia, 0.409" Head		
					SHEAR	PULL-OUT	PULL-OVER	SHEAR	PULL-OUT	PULL-OVER	SHEAR	PULL-OUT	PULL-OVER	SHEAR	PULL-OUT	PULL-OVER	SHEAR	PULL-OUT	PULL-OVER
25	18	0.0188	33	33*	44	24	84	48	29	84	52	33	105	55	38	105	60	44	127
22	27	0.0283	33	33*	82	37	127	89	43	127	96	50	159	102	57	159	110	66	191
20	30	0.0312	33	33*	95	40	140	103	48	140	111	55	175	118	63	175	127	73	211
20	33	0.0346	33	45	151	61	140	164	72	195	177	84	265	188	95	265	203	110	318
18	43	0.0451	33	45	214	79	140	244	94	195	263	109	345	280	124	345	302	144	415
16	54	0.0566	33	45	214	100	140	344	118	195	370	137	386	394	156	433	424	180	521
14	68	0.0713	33	45	214	125	140	426	149	195	523	173	386	557	196	545	600	227	656
12	97	0.1017	33	45	214	140	140	426	195	195	548	246	386	777	280	775	1016	324	936
16	54	0.0566	50	65	214	140	140	426	171	195	534	198	386	569	225	625	613	261	752
14	68	0.0713	50	65	214	140	140	426	195	195	548	249	386	777	284	775	866	328	948
12	97	0.1017	50	65	214	140	140	426	195	195	548	356	386	777	405	775	1016	468	1067
10	118	0.1242	50	65	214	140	140	426	195	195	548	386	386	777	494	775	1016	572	1067

* This is a NS type steel with no requirement for ultimate.

Weld Capacities (lbs/in.)

GAUGE DESIGNATION	MIL DESIGNATION	DESIGN THICKNESS (in.)	F _y (ksi)	F _u (ksi)	FILLET WELDS		FLARE GROOVE WELDS	
					LONGITUDINAL	TRANSVERSE	LONGITUDINAL	TRANSVERSE
18	43	0.0451	33	45	499	864	544	663
16	54	0.0566	33	45	626	1084	682	832
16	68	0.0713	33	45	789	1365	859	1048
14	97	0.1017	33	45	1125	1269	-	-
14	54	0.0566	50	65	905	1566	985	1202
12	68	0.0713	50	65	1140	1972	1241	1514
12	97	0.1017	50	65	1269	1269	-	-

STRUCTURAL TRACK SECTION PROPERTIES

				GROSS PROPERTIES							EFFECTIVE PROPERTIES								TORSIONAL PROPERTIES					
											33 ksi				50 ksi									
MW TYPE	MEMBER	DESIGN THICKNESS (in.)	F _y (ksi)	AREA (in. ²)	WEIGHT (lb/ft)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _{ag} (lb)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _{ag} (lb)	Jx1000 (in. ⁴)	C _W (in. ⁶)	X ₀ (in.)	m (in.)	r ₀ (in.)	β
212T20	250T125-33	0.0346	33	0.173	0.588	0.192	0.145	1.05	0.0272	0.397	0.167	0.103	2.03	1024	-	-	-	-	0.069	0.0328	-0.760	0.456	1.36	0.687
212T18	250T125-43	0.0451	33	0.225	0.766	0.250	0.188	1.06	0.0351	0.395	0.233	0.147	2.91	1356	-	-	-	-	0.153	0.0425	-0.755	0.453	1.36	0.690
212T18	250T125-43 (50)	0.0451	50	0.225	0.766	0.250	0.188	1.06	0.0351	0.395	-	-	-	-	0.221	0.137	4.09	2054	0.153	0.0425	-0.755	0.453	1.36	0.690
212T16	250T125-54	0.0566	50	0.282	0.961	0.318	0.236	1.06	0.0435	0.392	-	-	-	-	0.299	0.188	5.64	2563	0.302	0.0539	-0.749	0.449	1.36	0.696
212T14	250T125-68	0.0713	50	0.355	1.21	0.408	0.297	1.07	0.0539	0.389	-	-	-	-	0.405	0.262	7.85	3199	0.602	0.0689	-0.740	0.444	1.36	0.704
212T12	250T125-97	0.1017	50	0.506	1.72	0.604	0.423	1.09	0.0744	0.383	-	-	-	-	0.604	0.423	12.7	4476	1.75	0.102	-0.724	0.434	1.37	0.719
212T20	250T200-33	0.0346	33	0.225	0.77	0.280	0.212	1.12	0.0974	0.658	0.204	0.112	2.22	1024	-	-	-	-	0.090	0.118	-1.42	0.813	1.92	0.455
212T18	250T200-43	0.0451	33	0.293	1.00	0.366	0.275	1.12	0.126	0.657	0.290	0.163	3.21	1356	-	-	-	-	0.199	0.153	-1.41	0.810	1.92	0.457
212T18	250T200-43 (50)	0.0451	50	0.293	1.00	0.366	0.275	1.12	0.126	0.657	-	-	-	-	0.272	0.150	4.48	2054	0.199	0.153	-1.41	0.810	1.92	0.457
212T16	250T200-54	0.0566	50	0.367	1.25	0.466	0.346	1.13	0.157	0.654	-	-	-	-	0.374	0.209	6.25	2563	0.392	0.195	-1.41	0.806	1.92	0.462
212T14	250T200-68	0.0713	50	0.462	1.57	0.600	0.437	1.14	0.196	0.652	-	-	-	-	0.519	0.296	8.87	3199	0.784	0.251	-1.40	0.800	1.92	0.469
212T12	250T200-97	0.1017	50	0.659	2.24	0.894	0.626	1.17	0.275	0.646	-	-	-	-	0.861	0.510	15.3	4476	2.27	0.374	-1.38	0.789	1.92	0.484
212T20	250T250-33	0.0346	33	0.259	0.883	0.339	0.256	1.14	0.178	0.827	0.224	0.116	2.30	1024	-	-	-	-	0.103	0.218	-1.88	1.06	2.35	0.361
212T18	250T250-43	0.0451	33	0.338	1.15	0.443	0.333	1.15	0.230	0.826	0.319	0.169	3.34	1356	-	-	-	-	0.229	0.283	-1.87	1.05	2.35	0.362
212T18	250T250-43 (50)	0.0451	50	0.338	1.15	0.443	0.333	1.15	0.230	0.826	-	-	-	-	0.298	0.155	4.64	2054	0.229	0.283	-1.87	1.05	2.35	0.362
212T16	250T250-54	0.0566	50	0.424	1.44	0.565	0.419	1.16	0.288	0.824	-	-	-	-	0.412	0.217	6.50	2563	0.453	0.361	-1.87	1.05	2.34	0.366
212T14	250T250-68	0.0713	50	0.534	1.82	0.728	0.530	1.17	0.360	0.821	-	-	-	-	0.578	0.310	9.27	3199	0.904	0.466	-1.86	1.04	2.34	0.372
212T12	250T250-97	0.1017	50	0.761	2.59	1.09	0.761	1.20	0.506	0.816	-	-	-	-	0.976	0.541	16.2	4476	2.62	0.696	-1.83	1.03	2.34	0.384
212T20	250T300-33	0.0346	33	0.294	1.00	0.398	0.301	1.16	0.290	0.993	0.240	0.119	2.36	1024	-	-	-	-	0.117	0.360	-2.35	1.30	2.80	0.298
212T18	250T300-43	0.0451	33	0.383	1.30	0.521	0.391	1.17	0.376	0.991	0.344	0.174	3.43	1356	-	-	-	-	0.260	0.470	-2.34	1.30	2.80	0.299
212T18	250T300-43 (50)	0.0451	50	0.383	1.30	0.521	0.391	1.17	0.376	0.991	-	-	-	-	0.320	0.159	4.77	2054	0.260	0.470	-2.34	1.30	2.80	0.299
212T16	250T300-54	0.0566	50	0.480	1.64	0.684	0.492	1.18	0.470	0.989	-	-	-	-	0.445	0.223	6.69	2563	0.513	0.599	-2.34	1.29	2.79	0.302
212T14	250T300-68	0.0713	50	0.605	2.06	0.856	0.623	1.19	0.589	0.987	-	-	-	-	0.627	0.319	9.56	3199	1.03	0.773	-2.32	1.29	2.79	0.307
212T12	250T300-97	0.1017	50	0.862	2.93	1.28	0.896	1.22	0.831	0.981	-	-	-	-	1.07	0.563	16.9	4476	2.97	1.16	-2.30	1.28	2.78	0.316
358T20	362T125-33	0.0346	33	0.212	0.721	0.438	0.232	1.44	0.0301	0.377	0.384	0.174	3.44	1024	-	-	-	-	0.085	0.0756	-0.658	0.409	1.63	0.836
358T18	362T125-43	0.0451	33	0.276	0.939	0.571	0.302	1.44	0.0388	0.375	0.530	0.245	4.84	1739	-	-	-	-	0.187	0.0978	-0.654	0.407	1.62	0.838
358T18	362T125-43 (50)	0.0451	50	0.276	0.939	0.571	0.302	1.44	0.0388	0.375	-	-	-	-	0.508	0.230	6.89	2141	0.187	0.0978	-0.654	0.407	1.62	0.838
358T16	362T125-54	0.0566	50	0.346	1.18	0.723	0.378	1.45	0.0481	0.373	-	-	-	-	0.677	0.312	9.34	3372	0.370	0.123	-0.648	0.404	1.63	0.841
358T14	362T125-68	0.0713	50	0.436	1.48	0.921	0.475	1.45	0.0597	0.370	-	-	-	-	0.907	0.427	12.8	4703	0.738	0.156	-0.641	0.399	1.63	0.846
358T12	362T125-97	0.1017	50	0.621	2.11	1.34	0.675	1.47	0.0822	0.364	-	-	-	-	1.34	0.675	20.2	6622	2.14	0.226	-0.626	0.390	1.64	0.854
358T10	362T125-118	0.1242	50	0.757	2.58	1.67	0.821	1.48	0.0978	0.359	-	-	-	-	1.67	0.821	28.2*	8008	3.89	0.278	-0.615	0.383	1.65	0.860
358T20	362T200-33	0.0346	33	0.264	0.897	0.619	0.328	1.53	0.110	0.645	0.463	0.190	3.76	1024	-	-	-	-	0.105	0.269	-1.27	0.754	2.09	0.631
358T18	362T200-43	0.0451	33	0.343	1.17	0.808	0.427	1.53	0.142	0.643	0.647	0.270	5.34	1739	-	-	-	-	0.233	0.350	-1.27	0.752	2.09	0.633
358T18	362T200-43 (50)	0.0451	50	0.343	1.17	0.808	0.427	1.53	0.142	0.643	-	-	-	-	0.613	0.252	7.56	2141	0.233	0.350	-1.27	0.752	2.09	0.633
358T16	362T200-54	0.0566	50	0.431	1.47	1.02	0.536	1.54	0.177	0.641	-	-	-	-	0.829	0.345	10.3	3372	0.460	0.442	-1.26	0.748	2.09	0.638
358T14	362T200-68	0.0713	50	0.543	1.85	1.31	0.675	1.55	0.221	0.638	-	-	-	-	1.13	0.480	14.4	4703	0.919	0.564	-1.25	0.743	2.09	0.643
358T12	362T200-97	0.1017	50	0.773	2.63	1.92	0.963	1.58	0.308	0.632	-	-	-	-	1.83	0.804	24.1	6622	2.67	0.825	-1.23	0.732	2.10	0.655
358T10	362T200-118	0.1242	50	0.944	3.21	2.39	1.18	1.59	0.371	0.627	-	-	-	-	2.39	1.07	32.1	8008	4.85	1.03	-1.22	0.724	2.10	0.663
358T20	362T250-33	0.0346	33	0.298	1.02	0.740	0.393	1.58	0.200	0.820	0.505	0.198	3.90	1024	-	-	-	-	0.119	0.493	-1.71	0.992	2.46	0.520
358T18	362T250-43	0.0451	33	0.389	1.32	0.966																		

STRUCTURAL TRACK SECTION PROPERTIES

			GROSS PROPERTIES								EFFECTIVE PROPERTIES								TORSIONAL PROPERTIES						
											33 ksi				50 ksi										
MW TYPE	MEMBER	DESIGN THICKNESS (in.)	F _y (ksi)	AREA (in. ²)	WEIGHT (lb/ft)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _{ag} (lb)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _{ag} (lb)	Jx1000 (in. ⁴)	C _w (in. ⁶)	X ₀ (in.)	m (in.)	r ₀ (in.)	B	
4T20	400T300-33	0.0346	33	0.346	1.18	1.06	0.512	1.75	0.338	0.989	0.677	0.218	4.32	939	-	-	-	-	-	0.138	1.01	-2.10	1.21	2.91	0.478
4T18	400T300-43	0.0451	33	0.451	1.53	1.38	0.665	1.75	0.439	0.987	0.951	0.334	6.60	1739	-	-	-	-	-	0.306	1.31	-2.10	1.21	2.91	0.479
4T18	400T300-43 (50)	0.0451	50	0.451	1.53	1.38	0.665	1.75	0.439	0.987	-	-	-	-	0.898	0.301	9.00	2078	0.306	1.31	-2.10	1.21	2.91	0.479	
4T16	400T300-54	0.0566	50	0.565	1.92	1.75	0.835	1.76	0.548	0.985	-	-	-	-	1.22	0.426	12.8	3372	0.604	1.66	-2.09	1.21	2.91	0.482	
4T14	400T300-68	0.0713	50	0.712	2.42	2.24	1.05	1.77	0.686	0.982	-	-	-	-	1.68	0.594	17.8	5205	1.21	2.12	-2.08	1.20	2.90	0.487	
4T12	400T300-97	0.1017	50	1.02	3.45	3.28	1.51	1.80	0.967	0.976	-	-	-	-	2.76	1.01	30.1	7337	3.50	3.11	-2.06	1.19	2.90	0.497	
4T10	400T300-118	0.1242	50	1.239	4.22	4.091	1.845	1.817	1.170	0.972	-	-	-	-	3.670	1.360	40.731	8881	6.369	3.876	-2.047	1.180	2.900	0.503	
6T20	600T125-33	0.0346	33	0.294	1.00	1.43	0.465	2.20	0.0338	0.339	1.24	0.297	5.87	622	-	-	-	-	-	0.117	0.238	-0.516	0.337	2.29	0.949
6T18	600T125-43	0.0451	33	0.383	1.30	1.86	0.604	2.21	0.0435	0.337	1.77	0.461	9.11	1377	-	-	-	-	-	0.260	0.307	-0.513	0.335	2.29	0.950
6T18	600T125-43 (50)	0.0451	50	0.383	1.30	1.86	0.604	2.21	0.0435	0.337	-	-	-	-	1.66	0.402	12.1	1377	0.260	0.307	-0.513	0.335	2.29	0.950	
6T16	600T125-54	0.0566	50	0.480	1.64	2.34	0.756	2.21	0.0539	0.335	-	-	-	-	2.24	0.592	17.7	2728	0.513	0.384	-0.508	0.332	2.29	0.951	
6T14	600T125-68	0.0713	50	0.605	2.06	2.97	0.950	2.22	0.0668	0.332	-	-	-	-	2.95	0.858	25.7	5350	1.03	0.483	-0.503	0.329	2.30	0.952	
6T12	600T125-97	0.1017	50	0.862	2.93	4.28	1.35	2.23	0.0919	0.327	-	-	-	-	4.28	1.35	40.3	10885	2.97	0.685	-0.491	0.321	2.31	0.955	
6T10	600T125-118	0.1242	50	1.05	3.58	5.27	1.64	2.24	0.109	0.322	-	-	-	-	5.27	1.64	56.3*	13539	5.41	0.832	-0.483	0.315	2.31	0.956	
6T20	600T200-33	0.0346	33	0.346	1.18	1.91	0.622	2.35	0.126	0.604	1.51	0.333	6.59	622	-	-	-	-	-	0.138	0.847	-1.05	0.655	2.64	0.843
6T18	600T200-43	0.0451	33	0.451	1.53	2.49	0.809	2.35	0.163	0.602	2.08	0.565	11.2	1377	-	-	-	-	-	0.306	1.10	-1.04	0.652	2.64	0.844
6T18	600T200-43 (50)	0.0451	50	0.451	1.53	2.49	0.809	2.35	0.163	0.602	-	-	-	-	1.99	0.460	13.8	1377	0.306	1.10	-1.04	0.652	2.64	0.844	
6T16	600T200-54	0.0566	50	0.565	1.92	3.15	1.02	2.36	0.204	0.600	-	-	-	-	2.64	0.717	21.5	2728	0.604	1.38	-1.04	0.649	2.65	0.846	
6T14	600T200-68	0.0713	50	0.712	2.42	3.99	1.28	2.37	0.254	0.597	-	-	-	-	3.54	0.973	29.1	5350	1.21	1.75	-1.03	0.644	2.65	0.849	
6T12	600T200-97	0.1017	50	1.02	3.45	5.77	1.82	2.39	0.355	0.591	-	-	-	-	5.56	1.57	46.9	10885	3.50	2.51	-1.02	0.635	2.66	0.854	
6T10	600T200-118	0.1242	50	1.24	4.22	7.12	2.21	2.40	0.426	0.587	-	-	-	-	7.12	2.05	61.4	13539	6.37	3.08	-1.01	0.628	2.67	0.858	
6T20	600T250-33	0.0346	33	0.380	1.30	2.24	0.728	2.42	0.233	0.783	1.65	0.332	6.56	622	-	-	-	-	-	0.152	1.54	-1.44	0.880	2.93	0.758
6T18	600T250-43	0.0451	33	0.496	1.69	2.92	0.946	2.43	0.303	0.781	2.28	0.563	11.1	1377	-	-	-	-	-	0.336	2.00	-1.44	0.878	2.92	0.759
6T18	600T250-43 (50)	0.0451	50	0.496	1.69	2.92	0.946	2.43	0.303	0.781	-	-	-	-	2.18	0.457	13.7	1377	0.336	2.00	-1.44	0.878	2.92	0.759	
6T16	600T250-54	0.0566	50	0.622	2.12	3.68	1.19	2.43	0.377	0.779	-	-	-	-	2.90	0.732	21.9	2728	0.664	2.52	-1.43	0.874	2.93	0.761	
6T14	600T250-68	0.0713	50	0.783	2.67	4.67	1.50	2.44	0.472	0.776	-	-	-	-	3.91	1.02	30.5	5350	1.33	3.20	-1.42	0.869	2.93	0.764	
6T12	600T250-97	0.1017	50	1.12	3.80	6.77	2.13	2.46	0.662	0.770	-	-	-	-	6.21	1.66	49.6	10885	3.85	4.62	-1.41	0.859	2.94	0.771	
6T10	600T250-118	0.1242	50	1.36	4.64	8.36	2.60	2.48	0.799	0.766	-	-	-	-	8.06	2.19	65.5	13539	7.01	5.69	-1.39	0.852	2.94	0.776	
6T20	600T300-33	0.0346	33	0.415	1.41	2.56	0.833	2.48	0.384	0.962	1.68	0.331	6.54	622	-	-	-	-	-	0.166	2.52	-1.85	1.11	3.24	0.674
6T18	600T300-43	0.0451	33	0.541	1.84	3.34	1.08	2.48	0.498	0.960	2.42	0.556	11.0	1377	-	-	-	-	-	0.367	3.28	-1.85	1.11	3.24	0.675
6T18	600T300-43(50)	0.0451	50	0.541	1.84	3.34	1.08	2.48	0.498	0.960	-	-	-	-	2.28	0.455	13.6	1377	0.367	3.28	-1.85	1.11	3.24	0.675	
6T16	600T300-54	0.0566	50	0.679	2.31	4.21	1.36	2.49	0.622	0.957	-	-	-	-	3.08	0.722	21.6	2728	0.725	4.13	-1.84	1.11	3.24	0.677	
6T14	600T300-68	0.0713	50	0.854	2.91	5.35	1.71	2.50	0.779	0.954	-	-	-	-	4.16	1.05	31.5	5350	1.45	5.24	-1.83	1.10	3.25	0.681	
6T12	600T300-97	0.1017	50	1.22	4.15	7.76	2.44	2.52	1.10	0.949	-	-	-	-	6.66	1.72	51.6	10885	4.20	7.58	-1.82	1.09	3.25	0.688	
6T10	600T300-118	0.1242	50	1.49	5.06	9.60	2.98	2.54	1.33	0.944	-	-	-	-	8.71	2.29	68.6	13539	7.65	9.36	-1.80	1.08	3.26	0.693	
8T20*	800T125-33+	0.0346	33	0.363	1.24	2.90	0.711	2.82	0.0356	0.313	2.43	0.407	8.04	465	-	-	-	-	-	0.145	0.456	-0.439	0.294	2.87	0.977
8T18	800T125-43	0.0451	33	0.473	1.61	3.77	0.924	2.82	0.0458	0.311	3.49	0.640	12.7	1030	-	-	-	-	-	0.321	0.589	-0.436	0.292	2.87	0.977
8T18	800T125-43 (50)	0.0451	50	0.473	1.61	3.77	0.924	2.82	0.0458	0.311	-	-	-	-	3.24	0.552	16.5	1030	0.321	0.589	-0.436	0.292	2.87	0.977	
8T16	800T125-54	0.0566	50	0.594	2.02	4.75	1.16	2.83	0.0568	0.309	-	-	-	-	4.44	0.824	24.7	2039	0.634	0.735	-0.432	0.289	2.88	0.977	
8T14	800T125-68	0.0713	50	0.748	2.54	6.00	1.45	2.83	0.0703	0.307	-	-	-	-	5.99	1.22	36.4	4086	1.27	0.920	-0.427	0.286	2.88	0.978	

STRUCTURAL TRACK SECTION PROPERTIES

					GROSS PROPERTIES							EFFECTIVE PROPERTIES								TORSIONAL PROPERTIES						
MW TYPE	MEMBER	DESIGN THICKNESS (in.)	F _y (ksi)	AREA (in. ²)	WEIGHT (lb/ft)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	33 ksi				50 ksi											
											I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _{ag} (lb)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _{ag} (lb)	Jx1000 (in. ⁴)	C _w (in. ⁶)	X ₀ (in.)	m (in.)	r ₀ (in.)	β		
10T18	1000T200-43 +	0.0451	33	0.631	2.15	8.36	1.65	3.64	0.183	0.539	6.64	0.861	17.0	822	-	-	-	-	0.428	3.54	-0.813	0.534	3.77	0.953		
10T18	1000T200-43 +	0.0451	50	0.631	2.15	8.36	1.65	3.64	0.183	0.539	-	-	-	-	6.03	0.731	21.9	822	0.428	3.54	-0.813	0.534	3.77	0.953		
10T16	1000T200-54	0.0566	50	0.792	2.69	10.5	2.06	3.65	0.228	0.537	-	-	-	-	8.48	1.11	33.3	1627	0.845	4.43	-0.809	0.531	3.77	0.954		
10T14	1000T200-68	0.0713	50	0.997	3.39	13.3	2.59	3.65	0.284	0.534	-	-	-	-	11.8	1.68	50.4	3260	1.69	5.58	-0.803	0.527	3.78	0.955		
10T12	1000T200-97	0.1017	50	1.42	4.84	19.1	3.69	3.66	0.397	0.528	-	-	-	-	18.7	3.08	92.3	9505	4.90	7.92	-0.791	0.519	3.79	0.956		
10T10	1000T200-118	0.1242	50	1.74	5.91	23.4	4.49	3.67	0.477	0.524	-	-	-	-	23.4	4.21	126	16235	8.92	9.65	-0.783	0.514	3.79	0.957		
10T18	1000T250-43 +	0.0451	33	0.676	2.30	9.52	1.87	3.75	0.344	0.713	7.06	0.877	17.3	822	-	-	-	-	0.458	6.48	-1.15	0.737	3.99	0.917		
10T18	1000T250-43 +(50)	0.0451	50	0.676	2.30	9.52	1.87	3.75	0.344	0.713	-	-	-	-	6.37	0.742	22.22	822	0.458	6.48	-1.15	0.737	3.99	0.917		
10T16	1000T250-54	0.0566	50	0.848	2.89	12.0	2.35	3.76	0.429	0.711	-	-	-	-	9.02	1.13	33.9	1627	0.906	8.13	-1.14	0.734	3.99	0.918		
10T14	1000T250-68	0.0713	50	1.07	3.64	15.1	2.95	3.76	0.536	0.708	-	-	-	-	12.7	1.73	51.7	3260	1.81	10.2	-1.14	0.730	3.99	0.919		
10T12	1000T250-97	0.1017	50	1.52	5.18	21.8	4.20	3.78	0.751	0.702	-	-	-	-	20.4	3.20	95.9	9505	5.25	14.6	-1.12	0.721	4.00	0.921		
10T10	1000T250-118	0.1242	50	1.86	6.33	26.7	5.12	3.79	0.906	0.698	-	-	-	-	26.0	4.42	132	16235	9.56	17.9	-1.11	0.715	4.01	0.923		
10T18	1000T300-43 +	0.0451	33	0.721	2.45	10.7	2.10	3.85	0.572	0.891	7.92	0.919	18.2	822	-	-	-	-	0.489	10.6	-1.51	0.950	4.23	0.873		
10T18	1000T300-43 +(50)	0.0451	50	0.721	2.45	10.7	2.10	3.85	0.572	0.891	-	-	-	-	6.89	0.762	22.8	822	0.966	13.3	-1.50	0.950	4.23	0.873		
10T16	1000T300-54	0.0566	50	0.905	3.08	13.4	2.63	3.85	0.714	0.888	-	-	-	-	10.2	1.19	35.7	1627	0.966	13.3	-1.50	0.947	4.23	0.874		
10T14	1000T300-68	0.0713	50	1.14	3.88	17.0	3.31	3.86	0.894	0.885	-	-	-	-	14.1	1.91	57.0	3260	1.93	16.8	-1.49	0.943	4.23	0.876		
10T12	1000T300-97	0.1017	50	1.63	5.53	24.4	4.72	3.88	1.26	0.880	-	-	-	-	21.9	3.59	107	9505	5.60	24.0	-1.48	0.934	4.24	0.879		
10T10	1000T300-118	0.1242	50	1.63	6.75	30.0	5.76	3.89	1.52	0.875	-	-	-	-	28.1	4.67	140	16235	10.2	29.4	-1.47	0.927	4.25	0.881		
12T16*	1200T125-54 +	0.0566	50	0.820	2.79	13.3	2.19	4.03	0.0601	0.271	-	-	-	-	11.4	1.29	38.5	1354	0.876	1.82	-0.333	0.230	4.06	0.993		
12T14	1200T125-68	0.0713	50	1.03	3.51	16.8	2.75	4.04	0.0744	0.268	-	-	-	-	15.7	1.93	57.9	2712	1.75	2.27	-0.329	0.227	4.06	0.993		
12T12	1200T125-97	0.1017	50	1.47	5.01	24.1	3.90	4.04	0.102	0.264	-	-	-	-	24.0	3.44	103	7901	5.08	3.17	-0.322	0.222	4.07	0.994		
12T10	1200T125-118	0.1242	50	1.80	6.12	29.5	4.74	4.05	0.122	0.260	-	-	-	-	29.5	4.49	134	14431	9.24	3.81	-0.316	0.218	4.07	0.994		
12T16	1200T200-54 +	0.0566	50	0.905	3.08	16.46	2.70	4.27	0.236	0.510	-	-	-	-	12.8	1.35	40.4	1354	0.966	6.71	-0.730	0.487	4.36	0.972		
12T14	1200T200-68	0.0713	50	1.14	3.88	20.8	3.40	4.27	0.294	0.508	-	-	-	-	18.0	2.06	61.6	2712	1.93	8.43	-0.725	0.483	4.36	0.972		
12T12	1200T200-97	0.1017	50	1.63	5.53	29.8	4.82	4.28	0.410	0.502	-	-	-	-	29.2	3.82	114	7901	5.60	11.9	-0.714	0.476	4.37	0.973		
12T10	1200T200-118	0.1242	50	1.98	6.75	36.5	5.88	4.29	0.493	0.498	-	-	-	-	36.5	5.28	158	14431	10.2	14.5	-0.706	0.471	4.38	0.974		
12T16	1200T250-54 +	0.0566	50	0.962	3.27	18.6	3.04	4.39	0.445	0.681	-	-	-	-	13.4	1.37	41.2	1354	1.03	12.3	-1.04	0.680	4.56	0.948		
12T14	1200T250-68	0.0713	50	1.21	4.12	23.4	3.83	4.40	0.556	0.678	-	-	-	-	19.0	2.11	63.1	2712	2.05	15.5	-1.03	0.676	4.57	0.948		
12T12	1200T250-97	0.1017	50	1.73	5.88	33.6	5.44	4.41	0.780	0.672	-	-	-	-	31.4	3.95	118	7901	5.95	22.1	-1.02	0.668	4.58	0.950		
12T10	1200T250-118	0.1242	50	2.11	7.17	41.2	6.63	4.42	0.941	0.668	-	-	-	-	40.2	5.52	165	14431	10.8	26.9	-1.01	0.662	4.59	0.951		
12T16	1200T300-54 +	0.0566	50	1.02	3.46	20.6	3.38	4.50	0.745	0.855	-	-	-	-	14.1	1.39	41.7	1354	1.09	20.2	-1.38	0.884	4.78	0.917		
12T14	1200T300-68	0.0713	50	1.28	4.36	26.1	4.26	4.51	0.932	0.852	-	-	-	-	20.1	2.14	64.1	2712	2.17	25.5	-1.37	0.880	4.79	0.918		
12T12	1200T300-97	0.1017	50	1.83	6.22	37.4	6.06	4.53	1.31	0.847	-	-	-	-	33.5	4.05	121	7901	6.30	36.4	-1.36	0.871	4.80	0.920		
12T10	1200T300-118	0.1242	50	2.23	7.60	45.9	7.39	4.54	1.58	0.842	-	-	-	-	43.2	5.70	171	14431	11.5	44.4	-1.35	0.865	4.81	0.922		
14T16	1400T125-54 +	0.0566	50	0.933	3.18	20.0	2.81	4.63	0.0611	0.256	-	-	-	-	16.0	1.52	45.4	1160	0.997	2.56	-0.299	0.209	4.64	0.996		
14T14	1400T125-68	0.0713	50	1.18	4.00	25.2	3.54	4.63	0.0757	0.254	-	-	-	-	22.4	2.29	68.7	2322	1.99	3.19	-0.296	0.206	4.65	0.996		
14T12	1400T125-97	0.1017	50	1.68	5.70	36.0	5.02	4.64	0.104	0.249	-	-	-	-	34.8	4.13	124	6759	5.78	4.44	-0.289	0.201	4.65	0.996		
14T10	1400T125-118	0.1242	50	2.05	6.96	44.1	6.11	4.64	0.124	0.246	-	-	-	-	44.0	5.45	163	12342	10.5	5.33	-0.284	0.197	4.66	0.996		
14T16	1400T200-54 +	0.0566	50	1.02	3.46	24.2	3.41	4.88	0.242	0.487	-	-	-	-	17.8	1.59	47.6	1160	1.09	9.52	-0.665	0.449	4.95	0.982		
14T14	1400T200-68	0.0713	50	1.28	4.36	30.6	4.29	4.88	0.301	0.485	-	-	-	-	25.2	2.43	72.8	2322	2.17	11.9	-0.661					

CURTAINWALL LIMITING HEIGHTS - SINGLE SPAN

NOTES:

1. Listed wind pressures represent the calculated design wind pressure (1.0W based on 2009 IBC or 0.6W based on 2012 IBC). For deflection calculations, the listed wind pressures have been multiplied by 0.70 as per IBC. The 5 psf pressure has not been reduced for deflection calculations.
2. Studs must be braced against rotation and lateral displacement at all supports.
3. Studs are assumed to be adequately braced at a maximum spacing of L_{br} to develop the full allowable moment, M_a .
4. Web crippling check is based on 1" of bearing at end supports and 3" of bearing at interior support.
5. Shear and web crippling capacity at end supports have NOT been reduced for punchouts. At interior support, the shear and web crippling capacity has been reduced for the presence of punchout adjacent to the support.
6. Combined bending and shear check at interior support is based on unreinforced web as per AISI S100 (Eq.C3.3.1-1). The shear and combined bending and shear check at interior support have been reduced for the presence of punchouts adjacent to the support.
7. Listed "Double Span" limiting heights are based on the distance from either end to the center of the interior support, with the stud continuous past the interior support.
8. "e" - web stiffeners required at ends.
9. See General Notes on Page 6.

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
	ksi	o.c.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362S137-33	33	12	23' 2"	18' 6"	16' 1"	14' 3"	12' 7"	10' 7"	12' 4"	11' 4"	9' 7"	11' 1"	10' 7"	9' 0"	10' 1"	10' 0"	8' 4"	9' 3"	9' 3"	8' 0"	8' 8"	8' 8"	7' 8"	7' 9"	7' 9"	7' 1"
	33	16	21' 1"	16' 9"	14' 7"	12' 4"	11' 4"	9' 7"	10' 8"	10' 4"	8' 9"	9' 7"	9' 7"	8' 1"	8' 8"	8' 8"	7' 8"	8' 1"	8' 1"	7' 3"	7' 7"	7' 7"	6' 9"	6' 9"	6' 6"	
	33	24	17' 6"	14' 7"	12' 9"	10' 1"	10' 0"	8' 4"	8' 8"	8' 8"	7' 8"	7' 9"	7' 9"	7' 1"	7' 1"	6' 8"	6' 7"	6' 7"	6' 4"	6' 2"	6' 2"	6' 1"	5' 6"	5' 6"	5' 6"	
362S137-43	33	12	25' 3"	20' 1"	17' 6"	15' 8"	13' 8"	11' 6"	14' 2"	12' 4"	10' 6"	13' 0"	11' 6"	9' 8"	11' 10"	10' 10"	9' 2"	11' 0"	10' 3"	8' 8"	10' 3"	9' 10"	8' 3"	9' 2"	9' 2"	7' 8"
	33	16	23' 0"	18' 2"	15' 10"	14' 2"	12' 4"	10' 6"	12' 7"	11' 3"	9' 6"	11' 2"	10' 6"	8' 9"	10' 3"	9' 10"	8' 3"	9' 6"	9' 4"	7' 10"	8' 10"	8' 10"	7' 7"	8' 0"	8' 0"	7' 0"
	33	24	20' 1"	15' 10"	13' 10"	11' 10"	10' 10"	9' 2"	10' 3"	9' 10"	8' 3"	9' 2"	9' 2"	7' 8"	8' 4"	8' 4"	7' 3"	7' 9"	7' 9"	6' 10"	7' 3"	7' 3"	6' 7"	6' 6"	6' 6"	6' 1"
362S137-43	50	12	25' 3"	20' 1"	17' 6"	15' 8"	13' 8"	11' 6"	14' 2"	12' 4"	10' 6"	13' 2"	11' 6"	9' 8"	12' 4"	10' 10"	9' 2"	11' 9"	10' 3"	8' 8"	11' 3"	9' 10"	8' 3"	10' 6"	9' 2"	7' 8"
	50	16	23' 0"	18' 2"	15' 10"	14' 2"	12' 4"	10' 6"	12' 10"	11' 3"	9' 6"	12' 0"	10' 6"	8' 9"	11' 3"	9' 10"	8' 3"	10' 8"	9' 4"	7' 10"	10' 3"	9' 0"	7' 7"	9' 3"	8' 3"	7' 0"
	50	24	20' 1"	15' 10"	13' 10"	12' 4"	10' 10"	9' 2"	11' 3"	9' 10"	8' 3"	10' 6"	9' 2"	7' 8"	9' 9"	8' 7"	7' 3"	9' 1"	8' 2"	6' 10"	8' 6"	7' 9"	6' 7"	7' 7"	7' 3"	6' 1"
362S137-54	50	12	27' 1"	21' 6"	18' 9"	16' 9"	14' 8"	12' 4"	15' 2"	13' 3"	11' 2"	14' 1"	12' 4"	10' 4"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 1"	10' 7"	8' 10"	11' 2"	9' 9"	8' 3"
	50	16	24' 7"	19' 6"	17' 0"	15' 2"	13' 3"	11' 2"	13' 9"	12' 1"	10' 2"	12' 10"	11' 2"	9' 6"	12' 1"	10' 7"	8' 10"	11' 6"	10' 0"	8' 6"	11' 0"	9' 7"	8' 1"	10' 2"	8' 10"	7' 6"
	50	24	21' 6"	17' 0"	14' 10"	13' 3"	11' 7"	9' 9"	12' 1"	10' 7"	8' 10"	11' 2"	9' 9"	8' 3"	10' 7"	9' 2"	7' 9"	10' 0"	8' 9"	7' 4"	9' 7"	8' 4"	7' 1"	8' 8"	7' 9"	6' 7"
362S137-68	50	12	28' 10"	23' 0"	20' 1"	17' 10"	15' 8"	13' 2"	16' 3"	14' 2"	12' 0"	15' 1"	13' 2"	11' 1"	14' 2"	12' 4"	10' 6"	13' 6"	11' 9"	10' 0"	12' 10"	11' 3"	9' 6"	12' 0"	10' 6"	8' 9"
	50	16	26' 3"	20' 10"	17' 6"	16' 3"	14' 2"	12' 0"	14' 9"	12' 10"	10' 10"	13' 8"	12' 0"	10' 1"	12' 10"	11' 3"	9' 6"	12' 3"	10' 8"	9' 0"	11' 8"	10' 3"	8' 8"	10' 10"	9' 6"	8' 0"
	50	24	23' 0"	18' 2"	15' 10"	14' 2"	12' 4"	10' 6"	12' 10"	11' 3"	9' 6"	12' 0"	10' 6"	8' 9"	11' 3"	9' 10"	8' 3"	10' 8"	9' 4"	7' 10"	10' 3"	9' 0"	7' 7"	9' 6"	8' 3"	7' 0"
362S137-97	50	12	31' 9"	25' 3"	22' 1"	19' 8"	17' 2"	14' 6"	17' 10"	15' 8"	13' 2"	16' 7"	14' 6"	12' 3"	15' 8"	13' 8"	11' 6"	14' 10"	13' 0"	11' 0"	14' 2"	12' 4"	10' 6"	13' 2"	11' 6"	9' 8"
	50	16	28' 10"	22' 10"	20' 0"	17' 10"	15' 8"	13' 2"	16' 3"	14' 2"	12' 0"	15' 1"	13' 2"	11' 1"	14' 2"	12' 4"	10' 6"	13' 6"	11' 9"	10' 0"	12' 10"	11' 3"	9' 6"	12' 0"	10' 6"	8' 9"
	50	24	25' 3"	20' 0"	17' 6"	15' 8"	13' 8"	11' 6"	14' 2"	12' 4"	10' 6"	13' 2"	11' 6"	9' 8"	12' 4"	10' 10"	9' 2"	11' 9"	10' 3"	8' 8"	11' 3"	9' 0"	8' 3"	10' 6"	9' 2"	7' 8"
362S162-33	33	12	24' 4"	19' 3"	16' 10"	15' 1"	13' 2"	11' 1"	13' 3"	12' 0"	10' 1"	11' 10"	11' 1"	9' 4"	10' 9"	10' 6"	8' 9"	10' 0"	9' 10"	8' 4"	9' 4"	9' 4"	8' 0"	8' 4"	8' 4"	7' 4"
	33	16	22' 1"	17' 7"	15' 3"	13' 3"	12' 0"	10' 1"	11' 6"	10' 10"	9' 2"	10' 10"	10' 1"	8' 6"	9' 4"	9' 4"	8' 0"	8' 8"	8' 8"	7' 7"	8' 1"	8' 1"	7' 3"	5' 10"	7' 3"	6' 9"
	33	24	18' 9"	15' 3"	13' 4"	10' 9"	10' 6"	8' 9"	9' 4"	8' 0"	8' 4"	8' 4"	7' 4"	7' 4"	7' 4"	7' 4"	7' 0"	7' 1"	6' 8"	6' 7"	6' 7"	6' 4"	5' 10"	5' 10"	5' 10"	5' 10"
362S162-43	33	12	26' 6"	21' 0"	18' 4"	16' 4"	14' 3"	12' 1"	14' 10"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"	12' 9"	11' 4"	9' 7"	11' 9"	10' 9"	9' 1"	11' 1"	10' 3"	8' 8"	9' 10"	9' 7"	8' 1"
	33	16	24' 1"	19' 1"	16' 8"	14' 10"	13' 0"	11' 0"	13' 6"	11' 9"	10' 0"	12' 1"	11' 0"	9' 3"	11' 1"	10' 3"	8' 8"	10' 2"	9' 9"	8' 3"	9' 7"	9' 4"	7' 10"	8' 7"	8' 7"	7' 4"
	33	24	21' 0"	16' 8"	14' 7"	12' 9"	11' 4"	9' 7"	11' 1"	10' 3"	8' 8"	9' 10"	9' 7"	8' 1"	9' 0"	9' 0"	7' 7"	8' 4"	8' 4"	7' 2"	7' 9"	7' 9"	6' 10"	7' 0"	7' 0"	6' 4"
362S162-43	50	12	26' 6"	21' 0"	18' 4"	16' 4"	14' 3"	12' 1"	14' 10"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"	12' 9"	11' 4"	9' 7"	11' 9"	10' 9"	9' 1"	11' 1"	10' 3"	8' 8"	11' 0"	9' 7"	8' 1"
	50	16	24' 1"	19' 1"	16' 8"	14' 10"	13' 0"	11' 0"	13' 7"	11' 9"	10' 0"	12' 7"	11' 0"	9' 3"	11' 9"	10' 3"	8' 8"	11' 3"	9' 9"	8' 3"	10' 9"	9' 4"	7' 10"	9' 9"	8' 8"	7' 4"
	50	24	21' 0"	16' 8"	14' 7"	13' 0"	11' 4"	9' 7"	11' 9"	10' 3"	8' 8"	11' 0"	9' 7"	8' 1"	9' 0"	9' 0"	7' 7"	8' 7"	7' 2"	9' 0"	8' 2"	6' 10"	8' 0"	7' 7"	6' 4"	
362S162-54	50	12	28' 4"	22' 6"	19' 8"	17' 7"	15' 4"	13' 0"	16' 0"	14' 0"	11' 9"	14' 9"	13' 0"	10' 10"	14' 0"	12' 2"	10' 3"	13' 3"	11' 7"	9' 2"	12' 8"	11' 1"	9' 3"	11' 9"	10' 3"	8' 8"
	50	16	25' 9"	20' 6"	17' 10"	16' 0"	14' 0"	11' 9"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 10"	12' 8"	11' 1"	9' 3"	12' 1"	10' 6"	8' 10"	11' 6"	10' 1"	8' 6"	10' 8"	9' 3"	7' 10"
	50	24	22' 6"	17' 10"	15' 7"	14' 0"	12' 2"	10' 3"	12' 8"	11' 1"	9' 3"	11' 9"	10' 3"	8' 8"	11' 1"	9' 8"	8' 2"	10' 6"	9' 2"	7' 9"	10' 1"	8' 9"	7' 4"	9' 3"	8' 2"	6' 10"
362S162-68	50	12	30' 4"	24' 1"	21' 1"	18' 9"	16' 4"	13' 10"	17' 1"	14' 10"	12' 7"	15' 10"	13' 10"	11' 8"	14' 10"	13' 1"	11' 0"	14' 2"	12' 4"	10' 6"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"
	50	16	27' 7"	21' 10"	19' 1"	17' 1"	14' 10"	12' 7"	15' 6"	13' 7"	11' 6"	14' 4"	12' 7"	10' 7"	13' 7"	11' 10"	10' 0"	12' 10"	11' 3"	9' 6"	12' 3"	10' 9"	9' 1"	11' 6"	10' 0"	8' 4"
	50	24	24' 1"	19' 1"	16' 8"	14' 10"	13' 1"	11' 0"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"	11' 10"	10' 4"	8' 8"	11' 3"	9' 9"	8' 3"	10' 9"	9' 4"	7' 10"	10' 0"	8' 8"	7' 4"
362S162-97	50	12	33' 6"	26' 7"	23' 2"	20' 9"	18' 1"	15' 3"	18' 10"	16' 6"	13' 10"	17' 6"	15' 3"	12' 10"	16' 6"	14' 4"	12' 1"	15' 8"	13' 8"	11' 6"	15' 0"	13' 1"	11' 0"	13' 10"	12' 1"	10' 2"
	50	16	30' 4"	24' 2"	21' 1"	18' 10"	16' 6"	13' 10"	17' 1"	15' 0"	12' 7"	15' 0"	13' 10"	11' 8"	15' 0"	13' 1"	11' 0"	14' 2"	12' 4"	10' 6"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"
	50	24	26' 7"	21' 1"	18' 4"	16' 6"	14' 4"	12' 1"	15' 0"	13' 1"	11' 0"	13' 10"	12' 1"	10' 2"	13' 1"	11' 4"	9' 7"	12' 4"	10' 10"	9' 2"	11' 10"	10' 4"	8' 9"			

CURTAINWALL LIMITING HEIGHTS - SINGLE SPAN

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
	ksi	O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362S250-43	33	12	29' 6"	23' 4"	20' 6"	18' 3"	16' 0"	13' 6"	16' 7"	14' 6"	12' 2"	15' 4"	13' 6"	11' 4"	14' 0"	12' 8"	10' 8"	13' 0"	12' 0"	10' 2"	12' 2"	11' 6"	9' 8"	10' 10"	10' 8"	9' 0"
	33	16	26' 9"	21' 3"	18' 7"	16' 7"	14' 6"	12' 2"	14' 10"	13' 2"	11' 1"	13' 3"	12' 2"	10' 3"	12' 2"	11' 6"	9' 8"	11' 3"	10' 10"	9' 2"	10' 6"	10' 6"	8' 9"	9' 4"	9' 4"	8' 2"
	33	24	23' 4"	18' 7"	16' 2"	14' 0"	12' 8"	10' 8"	12' 2"	11' 6"	9' 8"	10' 10"	10' 8"	9' 0"	9' 10"	8' 10"	8' 6"	9' 2"	8' 2"	8' 1"	8' 7"	8' 7"	7' 8"	7' 8"	7' 8"	7' 2"
362S250-43	50	12	29' 2"	23' 1"	20' 2"	18' 1"	15' 9"	13' 3"	16' 4"	14' 3"	12' 1"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 7"	13' 7"	11' 10"	10' 0"	13' 0"	11' 4"	9' 7"	12' 1"	10' 7"	8' 10"
	50	16	26' 6"	21' 0"	18' 4"	16' 4"	14' 3"	12' 1"	14' 10"	13' 0"	11' 0"	13' 9"	12' 1"	10' 2"	13' 0"	11' 4"	9' 7"	12' 4"	10' 9"	9' 1"	11' 9"	10' 3"	8' 8"	10' 9"	9' 7"	8' 1"
	50	24	23' 1"	18' 4"	16' 0"	14' 3"	12' 6"	10' 7"	13' 0"	11' 4"	9' 7"	12' 1"	10' 7"	8' 10"	11' 4"	9' 10"	8' 4"	10' 7"	9' 4"	8' 0"	9' 10"	9' 0"	7' 7"	8' 9"	8' 4"	7' 1"
362S250-54	50	12	31' 7"	25' 0"	21' 10"	19' 7"	17' 1"	14' 4"	17' 9"	15' 6"	13' 1"	16' 6"	14' 4"	12' 2"	15' 6"	13' 7"	11' 4"	14' 8"	12' 10"	10' 10"	14' 1"	12' 3"	10' 4"	13' 1"	11' 4"	9' 7"
	50	16	28' 8"	22' 9"	19' 10"	17' 9"	15' 6"	13' 1"	16' 1"	14' 1"	11' 10"	15' 0"	13' 1"	11' 0"	14' 1"	12' 3"	10' 4"	13' 4"	11' 8"	9' 10"	12' 9"	11' 2"	9' 4"	11' 10"	10' 4"	8' 9"
	50	24	25' 0"	19' 10"	17' 4"	15' 6"	13' 7"	11' 4"	14' 1"	12' 3"	10' 4"	13' 1"	11' 4"	9' 7"	12' 3"	10' 9"	9' 1"	11' 8"	10' 2"	8' 7"	11' 2"	9' 9"	8' 2"	10' 1"	9' 1"	7' 8"
362S250-68	50	12	33' 10"	26' 10"	23' 6"	21' 0"	18' 4"	15' 6"	19' 1"	16' 8"	14' 1"	17' 8"	15' 6"	13' 1"	16' 8"	14' 7"	12' 3"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"
	50	16	30' 9"	24' 6"	21' 4"	19' 1"	16' 8"	14' 1"	17' 4"	15' 2"	12' 9"	16' 1"	14' 1"	11' 10"	15' 2"	13' 3"	11' 2"	14' 4"	12' 7"	10' 7"	13' 9"	12' 0"	10' 2"	12' 9"	11' 2"	9' 4"
	50	24	26' 10"	21' 4"	18' 8"	16' 8"	14' 7"	12' 3"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 0"	10' 6"	8' 10"	11' 2"	9' 9"	8' 2"
362S250-97	50	12	37' 7"	29' 9"	26' 1"	23' 3"	20' 4"	17' 2"	21' 2"	18' 6"	15' 7"	19' 8"	17' 2"	14' 6"	18' 6"	16' 2"	13' 7"	17' 7"	15' 3"	12' 10"	16' 9"	14' 8"	12' 4"	15' 7"	13' 7"	11' 6"
	50	16	34' 2"	27' 1"	23' 8"	21' 2"	18' 6"	15' 7"	19' 2"	16' 9"	14' 2"	17' 10"	15' 7"	13' 2"	16' 9"	14' 8"	12' 4"	16' 0"	13' 10"	11' 9"	15' 3"	13' 3"	11' 3"	14' 2"	12' 4"	10' 4"
	50	24	29' 9"	23' 8"	20' 8"	18' 6"	16' 2"	13' 7"	16' 9"	14' 8"	12' 4"	15' 7"	13' 7"	11' 6"	14' 8"	12' 9"	10' 9"	13' 10"	12' 2"	10' 3"	13' 3"	11' 8"	9' 9"	12' 4"	10' 9"	9' 1"
362S250-118	50	12	39' 8"	31' 6"	27' 6"	24' 7"	21' 6"	18' 1"	22' 4"	19' 6"	16' 6"	20' 9"	18' 1"	15' 3"	19' 6"	17' 1"	14' 4"	18' 7"	16' 2"	13' 8"	17' 8"	15' 6"	13' 1"	16' 6"	14' 4"	12' 1"
	50	16	36' 1"	28' 7"	25' 0"	22' 4"	19' 6"	16' 6"	20' 3"	17' 8"	15' 0"	18' 10"	16' 6"	13' 10"	17' 8"	15' 6"	13' 1"	16' 10"	14' 8"	12' 4"	16' 1"	14' 1"	11' 10"	15' 0"	13' 1"	11' 0"
	50	24	31' 6"	25' 0"	21' 10"	19' 6"	17' 1"	14' 4"	17' 8"	15' 6"	13' 1"	16' 6"	14' 4"	12' 1"	15' 6"	13' 6"	11' 4"	14' 8"	12' 10"	10' 10"	14' 1"	12' 3"	10' 4"	13' 1"	11' 4"	9' 7"
400S137-33	33	12	25' 1"	19' 10"	17' 4"	15' 1"	13' 7"	11' 6"	13' 1"	12' 3"	10' 4"	11' 8"	11' 6"	9' 8"	10' 8"	10' 8"	9' 1"	9' 10"	9' 10"	8' 7"	9' 2"	9' 2"	8' 3"	8' 3"	8' 3"	7' 8"
	33	16	22' 7"	18' 1"	15' 9"	13' 1"	12' 3"	10' 4"	11' 3"	11' 2"	9' 6"	10' 1"	10' 1"	8' 9"	9' 2"	9' 2"	8' 3"	8' 6"	8' 6"	7' 10"	8' 0"	8' 0"	7' 6"	7' 2"	7' 2"	7' 0"
	33	24	18' 6"	15' 9"	13' 9"	10' 8"	10' 8"	9' 1"	9' 2"	9' 2"	8' 3"	8' 3"	7' 8"	7' 6"	7' 6"	7' 2"	7' 0"	7' 0"	6' 10"	6' 6"	6' 6"	6' 6"	5' 9"	5' 9"	5' 9"	5' 9"
400S137-43	33	12	27' 3"	21' 8"	18' 10"	16' 10"	14' 9"	12' 6"	15' 4"	13' 4"	11' 3"	13' 9"	12' 6"	10' 6"	13' 9"	11' 8"	9' 10"	11' 7"	11' 1"	9' 4"	10' 10"	10' 8"	9' 0"	9' 8"	9' 8"	8' 3"
	33	16	24' 9"	19' 8"	17' 2"	15' 4"	13' 4"	11' 3"	13' 3"	12' 2"	10' 3"	11' 10"	11' 3"	9' 7"	10' 10"	10' 8"	9' 0"	10' 1"	10' 1"	8' 6"	9' 4"	9' 4"	8' 2"	8' 4"	8' 4"	7' 7"
	33	24	21' 8"	17' 2"	15' 0"	12' 7"	11' 8"	9' 10"	10' 10"	10' 8"	9' 0"	9' 8"	9' 8"	8' 3"	8' 10"	8' 10"	7' 10"	8' 2"	8' 2"	7' 6"	7' 8"	7' 8"	7' 1"	6' 10"	6' 10"	6' 7"
400-137-43	50	12	27' 3"	21' 8"	18' 10"	16' 10"	14' 9"	12' 6"	15' 4"	13' 4"	11' 3"	13' 9"	12' 6"	10' 6"	13' 4"	11' 8"	9' 10"	12' 9"	11' 1"	9' 4"	12' 2"	10' 8"	9' 0"	11' 3"	9' 10"	8' 3"
	50	16	24' 9"	19' 8"	17' 2"	15' 4"	13' 4"	11' 3"	14' 0"	12' 2"	10' 3"	13' 0"	11' 3"	9' 7"	12' 2"	10' 8"	9' 0"	11' 7"	10' 1"	8' 6"	11' 0"	9' 8"	8' 2"	9' 10"	9' 0"	7' 7"
	50	24	21' 8"	17' 2"	15' 0"	13' 4"	11' 8"	9' 10"	12' 2"	10' 8"	9' 0"	11' 3"	9' 10"	8' 3"	10' 4"	9' 3"	7' 10"	9' 7"	8' 9"	7' 6"	9' 0"	8' 6"	7' 1"	8' 1"	7' 10"	6' 7"
400S137-54	50	12	29' 2"	23' 2"	20' 3"	18' 1"	15' 9"	13' 4"	16' 6"	14' 4"	12' 1"	15' 3"	13' 4"	11' 3"	14' 4"	12' 7"	10' 7"	13' 8"	11' 10"	10' 1"	13' 1"	11' 4"	9' 7"	12' 1"	10' 7"	8' 10"
	50	16	26' 7"	21' 1"	18' 4"	16' 6"	14' 4"	12' 1"	15' 0"	13' 1"	11' 0"	13' 10"	12' 1"	10' 3"	13' 1"	11' 4"	9' 7"	12' 4"	10' 9"	9' 1"	11' 10"	10' 8"	9' 0"	9' 8"	9' 8"	8' 1"
	50	24	23' 2"	18' 4"	16' 1"	14' 4"	12' 7"	10' 7"	13' 1"	11' 4"	9' 7"	12' 1"	10' 7"	8' 10"	11' 4"	10' 0"	8' 4"	10' 9"	9' 6"	8' 0"	10' 3"	9' 1"	7' 7"	9' 2"	8' 4"	7' 1"
400S137-68	50	12	31' 3"	24' 9"	21' 8"	19' 4"	16' 10"	14' 3"	17' 7"	15' 4"	13' 0"	16' 3"	14' 3"	12' 0"	15' 4"	13' 4"	11' 3"	14' 7"	12' 9"	10' 9"	14' 0"	12' 2"	10' 3"	13' 0"	11' 3"	9' 7"
	50	16	28' 4"	22' 6"	19' 8"	17' 7"	15' 4"	13' 0"	16' 0"	14' 0"	11' 9"	14' 9"	13' 0"	10' 10"	14' 0"	12' 2"	10' 3"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"	11' 9"	10' 3"	8' 8"
	50	24	24' 9"	19' 8"	17' 2"	15' 4"	13' 4"	11' 3"	14' 0"	12' 2"	10' 3"	13' 0"	11' 3"	9' 7"	12' 2"	10' 8"	9' 0"	11' 7"	10' 1"	8' 6"	11' 1"	9' 8"	8' 2"	10' 3"	9' 0"	7' 7"
400S162-33	33	12	26' 3"	20' 10"	18' 2"	16' 2"	14' 2"	12' 0"																		

CURTAINWALL LIMITING HEIGHTS - SINGLE SPAN

MEMBER	F _y ksi	SPACING O.C.(in.)	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S250-33	33	12	28' 9"	22' 10"	20' 0"	17' 7"	15' 7"	13' 2"	15' 2"	14' 2"	12' 0"	13' 7"	13' 2"	11' 1"	12' 4"	12' 4"	10' 4"	11' 6"	11' 6"	9' 10"	10' 9"	10' 9"	9' 6"	9' 7"	9' 7"	8' 9"
	33	16	26' 2"	20' 9"	18' 1"	15' 2"	14' 2"	12' 0"	13' 2"	12' 10"	10' 10"	11' 9"	11' 9"	10' 1"	10' 9"	10' 9"	9' 6"	10' 0"	10' 0"	9' 0"	9' 3"	9' 3"	8' 7"	8' 3"	8' 3"	8' 0"
	33	24	21' 6"	18' 1"	15' 10"	12' 4"	12' 4"	10' 4"	10' 9"	10' 9"	9' 6"	9' 7"	9' 7"	8' 9"	8' 9"	8' 3"	8' 3"	8' 1"	8' 1"	7' 10"	7' 7"	7' 7"	7' 6"	6' 9"	6' 9"	6' 9"
400S250-43	33	12	31' 9"	25' 2"	22' 0"	19' 8"	17' 2"	14' 6"	17' 10"	15' 7"	13' 2"	16' 3"	14' 6"	12' 2"	14' 10"	13' 8"	11' 6"	13' 9"	13' 0"	10' 10"	12' 10"	12' 4"	10' 6"	11' 6"	11' 6"	9' 8"
	33	16	28' 10"	22' 10"	20' 0"	17' 10"	15' 7"	13' 2"	15' 9"	14' 2"	12' 0"	14' 1"	13' 2"	11' 1"	12' 10"	12' 4"	10' 6"	11' 10"	11' 9"	9' 10"	11' 1"	11' 1"	9' 6"	10' 0"	10' 0"	8' 9"
	33	24	25' 2"	20' 0"	17' 6"	14' 10"	13' 8"	11' 6"	12' 10"	12' 4"	10' 6"	11' 6"	11' 6"	9' 8"	10' 6"	10' 6"	9' 1"	9' 8"	9' 8"	8' 8"	9' 1"	9' 1"	8' 3"	8' 1"	8' 1"	7' 8"
400S250-43	50	12	31' 4"	24' 10"	21' 9"	19' 6"	17' 0"	14' 3"	17' 8"	15' 4"	13' 0"	16' 4"	14' 3"	12' 1"	15' 4"	13' 6"	11' 4"	14' 8"	12' 9"	10' 9"	14' 0"	12' 3"	10' 3"	13' 0"	11' 4"	9' 7"
	50	16	28' 6"	22' 7"	19' 9"	17' 8"	15' 4"	13' 0"	16' 1"	14' 0"	11' 9"	14' 10"	13' 0"	11' 0"	14' 0"	12' 3"	10' 3"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"	11' 4"	10' 3"	8' 8"
	50	24	24' 10"	19' 9"	17' 3"	15' 4"	13' 6"	11' 4"	14' 0"	12' 3"	10' 3"	13' 0"	11' 4"	9' 7"	12' 0"	10' 8"	9' 0"	11' 2"	10' 2"	8' 7"	10' 4"	9' 8"	8' 2"	9' 3"	9' 0"	7' 7"
400S250-54	50	12	34' 0"	27' 0"	23' 7"	21' 1"	18' 4"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"	16' 8"	14' 7"	12' 3"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"
	50	16	30' 10"	24' 6"	21' 4"	18' 1"	16' 8"	14' 1"	17' 4"	15' 2"	12' 9"	16' 1"	14' 1"	11' 10"	15' 2"	13' 3"	11' 2"	14' 4"	12' 7"	10' 7"	13' 9"	12' 1"	10' 2"	12' 9"	11' 2"	9' 4"
	50	24	27' 0"	21' 4"	18' 8"	16' 8"	14' 7"	12' 3"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 0"	10' 6"	8' 10"	10' 8"	9' 9"	8' 2"
400S250-68	50	12	36' 7"	29' 0"	25' 4"	22' 8"	19' 9"	16' 8"	20' 7"	18' 0"	15' 2"	19' 1"	16' 8"	14' 1"	18' 0"	15' 8"	13' 3"	17' 1"	14' 10"	12' 7"	16' 3"	14' 3"	12' 0"	15' 2"	13' 3"	11' 2"
	50	16	33' 2"	26' 4"	23' 0"	20' 7"	18' 0"	15' 2"	18' 8"	16' 3"	13' 9"	17' 4"	15' 2"	12' 9"	16' 3"	14' 3"	12' 0"	15' 6"	13' 7"	11' 4"	14' 9"	13' 0"	10' 10"	13' 9"	12' 0"	10' 2"
	50	24	29' 0"	23' 0"	20' 1"	18' 0"	15' 8"	13' 3"	16' 3"	14' 3"	12' 0"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"	13' 7"	11' 9"	10' 0"	13' 0"	11' 3"	9' 7"	12' 0"	10' 6"	8' 10"
400S250-97	50	12	40' 6"	32' 2"	28' 1"	25' 1"	22' 0"	18' 6"	22' 9"	19' 10"	16' 9"	21' 2"	18' 6"	15' 7"	19' 10"	17' 4"	14' 8"	18' 10"	16' 7"	14' 0"	18' 1"	15' 9"	13' 4"	16' 9"	14' 8"	12' 4"
	50	16	36' 9"	29' 2"	25' 6"	22' 9"	19' 10"	16' 9"	20' 8"	18' 1"	15' 3"	19' 3"	16' 9"	14' 2"	18' 1"	15' 9"	13' 4"	17' 2"	15' 0"	12' 8"	16' 6"	14' 4"	12' 1"	15' 3"	13' 4"	11' 3"
	50	24	32' 2"	25' 6"	22' 3"	19' 10"	17' 4"	14' 8"	18' 1"	15' 9"	13' 4"	16' 9"	14' 8"	12' 4"	15' 9"	13' 9"	11' 8"	15' 0"	13' 1"	11' 1"	14' 4"	12' 7"	10' 7"	13' 4"	11' 8"	9' 9"
400S250-118	50	12	42' 9"	34' 0"	29' 8"	26' 7"	23' 2"	19' 7"	24' 1"	21' 1"	17' 9"	22' 4"	19' 7"	16' 6"	21' 1"	18' 4"	15' 6"	20' 0"	17' 6"	14' 9"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"
	50	16	38' 10"	30' 10"	27' 0"	24' 1"	21' 1"	17' 9"	21' 10"	19' 1"	16' 2"	20' 3"	17' 9"	15' 0"	19' 1"	16' 8"	14' 1"	18' 2"	15' 10"	13' 4"	17' 4"	15' 2"	12' 9"	16' 2"	14' 1"	11' 10"
	50	24	34' 0"	27' 0"	23' 7"	21' 1"	18' 4"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"	16' 8"	14' 7"	12' 3"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	14' 1"	12' 3"	10' 4"
600S137-33	33	12	34' 4"	27' 3"	23' 9"	20' 0"	18' 7"	15' 8"	17' 3"	16' 10"	14' 3"	15' 6"	15' 6"	13' 2"	14' 1"	14' 1"	12' 6"	13' 1"	13' 1"	11' 9"	12' 2"	12' 2"	11' 3"	10' 10"	10' 10"	10' 6"
	33	16	30' 0"	24' 9"	21' 8"	17' 3"	16' 10"	14' 3"	15' 0"	15' 0"	13' 0"	13' 4"	13' 4"	12' 0"	12' 2"	12' 2"	11' 3"	11' 3"	11' 3"	10' 9"	10' 7"	10' 7"	9' 6"	9' 6"	9' 6"	9' 6"
	33	24	24' 6"	21' 8"	18' 10"	14' 1"	14' 1"	12' 6"	12' 2"	12' 2"	11' 3"	10' 10"	10' 10"	10' 6"	10' 0"	10' 0"	9' 10"	9' 2"	9' 2"	9' 2"	8' 8"	8' 8"	8' 8"	7' 8"	7' 8"	7' 8"
600S137-43	33	12	37' 8"	29' 10"	26' 1"	23' 4"	20' 4"	17' 2"	20' 7"	18' 6"	15' 7"	18' 4"	17' 2"	14' 6"	16' 9"	16' 2"	13' 8"	15' 7"	15' 4"	13' 0"	14' 7"	14' 7"	12' 4"	13' 0"	13' 0"	11' 6"
	33	16	34' 2"	27' 2"	23' 8"	20' 7"	18' 6"	15' 7"	17' 9"	16' 9"	14' 2"	16' 0"	15' 7"	13' 2"	14' 7"	14' 7"	12' 4"	13' 6"	13' 6"	11' 9"	12' 7"	12' 7"	11' 3"	11' 3"	10' 6"	
	33	24	29' 1"	23' 8"	20' 8"	16' 9"	16' 2"	13' 8"	14' 7"	14' 7"	12' 4"	13' 0"	13' 0"	11' 6"	11' 10"	11' 10"	10' 9"	11' 0"	11' 0"	10' 3"	10' 3"	10' 3"	9' 2"	9' 2"	9' 1"	
600S137-43	50	12	37' 6"	29' 9"	26' 0"	23' 2"	20' 3"	17' 1"	21' 1"	18' 6"	15' 7"	19' 7"	17' 1"	14' 4"	18' 6"	16' 1"	13' 7"	17' 6"	15' 3"	12' 10"	16' 9"	14' 7"	12' 4"	15' 2"	13' 7"	11' 6"
	50	16	34' 1"	27' 0"	23' 7"	21' 1"	18' 6"	15' 7"	19' 2"	16' 9"	14' 1"	17' 9"	15' 7"	13' 1"	16' 9"	14' 7"	12' 4"	15' 8"	13' 10"	11' 8"	14' 8"	13' 3"	11' 2"	13' 2"	12' 4"	10' 4"
	50	24	29' 9"	23' 7"	20' 7"	16' 6"	16' 1"	13' 7"	16' 9"	14' 7"	12' 4"	15' 2"	13' 7"	11' 6"	13' 10"	12' 9"	10' 9"	12' 9"	12' 2"	10' 3"	12' 0"	11' 7"	9' 9"	10' 8"	10' 8"	9' 1"
600S137-54	50	12	40' 4"	32' 1"	28' 0"	25' 0"	21' 10"	18' 6"	22' 9"	19' 10"	16' 9"	21' 1"	18' 6"	15' 7"	19' 10"	17' 4"	14' 7"	18' 10"	16' 6"	13' 10"	18' 1"	15' 9"	13' 3"	16' 9"	14' 7"	12' 4"
	50	16	36' 8"	29' 1"	25' 6"	22' 9"	19' 10"	16' 9"	20' 8"	18' 1"	15' 2"	19' 2"	16' 9"	14' 1"	18' 1"	15' 9"	13' 3"	17' 2"	15' 0"	12' 7"	16' 4"	14' 3"	12' 1"	15' 2"	13' 3"	11' 2"
	50	24	32' 1"	25' 6"	22' 2"	19' 10"	17' 4"	14' 7"	18' 1"	15' 9"	13' 3"	16' 9"	14' 7"	12' 4"	15' 9"	13' 9"	11' 7"	14' 10"	13' 1"	11' 0"	13' 10"	12' 6"	10' 7"	12' 6"	11' 7"	9' 9"
600S137-68	50	12	43' 3"	34' 4"	30' 0"	26' 9"	23' 4"	1																		

CURTAINWALL LIMITING HEIGHTS - SINGLE SPAN

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
	ksi	O.C.(in.)	L/120	L/140	L/160	L/240	L/1360	L/600	L/240	L/1360	L/600	L/240	L/1360	L/600	L/240	L/1360	L/600	L/240	L/1360	L/600	L/240	L/1360	L/600	L/240	L/1360	L/600
600S200-97	50	12	52' 9"	41' 10"	36' 7"	32' 8"	28' 7"	24' 1"	29' 8"	26' 0"	21' 10"	27' 7"	24' 1"	20' 3"	26' 0"	22' 8"	19' 1"	24' 8"	21' 7"	18' 2"	23' 7"	20' 7"	17' 4"	21' 10"	19' 1"	16' 1"
	50	16	48' 0"	38' 1"	33' 3"	29' 8"	26' 0"	21' 10"	27' 0"	23' 7"	19' 10"	25' 1"	21' 10"	18' 6"	23' 7"	20' 7"	17' 4"	22' 4"	19' 7"	16' 6"	21' 4"	18' 8"	15' 9"	19' 10"	17' 4"	14' 8"
	50	24	41' 10"	33' 3"	29' 1"	26' 0"	22' 8"	19' 1"	23' 7"	20' 7"	17' 4"	21' 10"	19' 1"	16' 1"	20' 7"	18' 0"	15' 2"	19' 7"	17' 1"	14' 4"	18' 8"	16' 4"	13' 9"	17' 4"	15' 2"	12' 9"
600S200-118	50	12	55' 9"	44' 3"	38' 8"	34' 7"	30' 2"	25' 6"	31' 4"	27' 6"	23' 2"	29' 2"	25' 6"	21' 6"	27' 6"	24' 0"	20' 2"	26' 1"	22' 9"	19' 2"	25' 0"	21' 9"	18' 4"	23' 2"	20' 2"	17' 1"
	50	16	50' 8"	40' 3"	35' 2"	31' 4"	27' 6"	23' 2"	28' 7"	25' 0"	21' 1"	26' 6"	23' 2"	19' 6"	25' 0"	21' 9"	18' 4"	23' 8"	20' 8"	17' 6"	22' 8"	19' 9"	16' 8"	21' 1"	18' 4"	15' 6"
	50	24	44' 3"	35' 2"	30' 8"	27' 6"	24' 0"	20' 2"	25' 0"	21' 9"	18' 4"	23' 2"	20' 2"	17' 1"	21' 9"	19' 0"	16' 1"	20' 8"	18' 1"	15' 3"	19' 9"	17' 3"	14' 7"	18' 4"	16' 1"	13' 7"
600S250-43	33	12	43' 2"	34' 3"	30' 0"	26' 9"	23' 4"	19' 8"	24' 3"	21' 3"	17' 10"	22' 0"	19' 8"	16' 8"	20' 1"	18' 7"	15' 8"	18' 7"	17' 8"	14' 10"	17' 4"	16' 10"	14' 2"	15' 7"	15' 7"	13' 2"
	33	16	39' 3"	31' 2"	27' 2"	24' 3"	21' 3"	17' 10"	21' 3"	19' 3"	16' 3"	19' 0"	17' 10"	15' 1"	17' 4"	16' 10"	14' 2"	16' 1"	16' 0"	13' 6"	15' 1"	15' 1"	12' 10"	13' 6"	13' 6"	12' 0"
	33	24	34' 3"	27' 2"	23' 9"	20' 1"	18' 7"	15' 8"	17' 4"	16' 10"	14' 2"	15' 7"	15' 7"	13' 2"	14' 2"	14' 2"	12' 4"	13' 1"	13' 1"	11' 9"	12' 3"	12' 3"	11' 3"	11' 0"	11' 0"	10' 6"
600S250-43	50	12	42' 9"	33' 10"	29' 7"	26' 6"	23' 1"	19' 6"	24' 1"	21' 0"	17' 8"	22' 3"	19' 6"	16' 6"	21' 0"	18' 4"	15' 6"	20' 0"	17' 6"	14' 8"	19' 1"	16' 8"	14' 1"	17' 8"	15' 6"	13' 1"
	50	16	38' 9"	30' 9"	26' 10"	24' 1"	21' 0"	17' 8"	21' 10"	19' 1"	16' 1"	20' 3"	17' 8"	15' 0"	19' 1"	16' 8"	14' 1"	18' 2"	15' 10"	13' 4"	17' 4"	15' 2"	12' 9"	15' 8"	14' 1"	11' 10"
	50	24	33' 10"	26' 10"	23' 6"	21' 0"	18' 4"	15' 6"	19' 1"	16' 8"	14' 1"	17' 8"	15' 6"	13' 1"	16' 6"	14' 7"	12' 3"	15' 3"	13' 10"	11' 8"	14' 3"	13' 2"	11' 2"	12' 9"	12' 3"	10' 4"
600S250-54	50	12	46' 3"	36' 8"	32' 1"	28' 8"	25' 0"	21' 1"	26' 0"	22' 9"	19' 2"	24' 2"	21' 1"	17' 9"	22' 9"	19' 10"	16' 9"	21' 7"	18' 10"	15' 10"	20' 8"	18' 1"	15' 2"	19' 2"	16' 9"	14' 1"
	50	16	42' 0"	33' 4"	29' 1"	26' 0"	22' 9"	19' 2"	23' 8"	20' 8"	17' 4"	22' 0"	19' 2"	16' 2"	20' 8"	18' 1"	15' 2"	19' 7"	17' 2"	14' 6"	18' 9"	16' 4"	13' 9"	17' 4"	15' 2"	12' 9"
	50	24	36' 8"	29' 1"	25' 6"	22' 9"	19' 10"	16' 9"	20' 8"	18' 1"	15' 2"	19' 2"	16' 9"	14' 1"	18' 1"	15' 9"	13' 3"	17' 2"	15' 0"	12' 7"	16' 3"	14' 3"	12' 1"	14' 7"	13' 3"	11' 2"
600S250-68	50	12	49' 10"	39' 7"	34' 7"	30' 10"	27' 0"	22' 9"	28' 1"	24' 6"	20' 8"	26' 1"	22' 9"	19' 2"	24' 6"	21' 4"	18' 1"	23' 3"	20' 4"	17' 2"	22' 3"	19' 6"	16' 4"	20' 8"	18' 1"	15' 2"
	50	16	45' 3"	36' 0"	31' 4"	28' 1"	24' 6"	20' 8"	25' 6"	22' 3"	18' 9"	23' 8"	20' 8"	17' 4"	22' 3"	19' 6"	16' 4"	21' 2"	18' 6"	15' 7"	20' 2"	17' 8"	14' 10"	18' 9"	16' 4"	13' 9"
	50	24	39' 7"	31' 4"	27' 4"	24' 6"	21' 4"	18' 1"	22' 3"	19' 6"	16' 4"	20' 8"	18' 1"	15' 2"	19' 6"	17' 0"	14' 3"	18' 6"	16' 2"	13' 7"	17' 8"	15' 6"	13' 0"	16' 4"	14' 3"	12' 1"
600S250-97	50	12	55' 4"	44' 0"	38' 4"	34' 4"	30' 0"	25' 3"	31' 2"	27' 3"	23' 0"	29' 0"	25' 3"	21' 4"	27' 3"	23' 9"	20' 1"	25' 10"	22' 7"	19' 1"	24' 9"	21' 7"	18' 3"	23' 0"	20' 1"	16' 10"
	50	16	50' 4"	40' 0"	34' 10"	31' 2"	27' 3"	23' 0"	28' 4"	24' 9"	20' 10"	26' 3"	23' 0"	19' 4"	24' 9"	21' 7"	18' 3"	23' 6"	20' 7"	17' 3"	22' 6"	19' 8"	16' 7"	20' 10"	18' 3"	15' 4"
	50	24	44' 0"	34' 10"	30' 6"	27' 3"	23' 9"	20' 1"	24' 9"	21' 7"	18' 3"	23' 0"	20' 1"	16' 10"	21' 7"	18' 10"	15' 10"	20' 7"	18' 0"	15' 1"	19' 8"	17' 2"	14' 6"	18' 3"	15' 10"	13' 6"
600S250-118	50	12	58' 8"	46' 7"	40' 8"	36' 4"	31' 9"	26' 9"	33' 1"	28' 10"	24' 4"	30' 8"	26' 9"	22' 7"	28' 10"	25' 2"	21' 3"	27' 4"	24' 0"	20' 2"	26' 2"	22' 10"	19' 3"	24' 4"	21' 3"	17' 10"
	50	16	53' 3"	42' 3"	37' 0"	33' 1"	28' 10"	24' 4"	30' 0"	26' 2"	22' 1"	27' 10"	24' 4"	20' 6"	26' 2"	22' 10"	19' 3"	24' 10"	21' 9"	18' 4"	23' 9"	20' 9"	17' 7"	22' 1"	19' 3"	16' 3"
	50	24	46' 7"	37' 0"	32' 3"	28' 10"	25' 2"	21' 3"	26' 2"	22' 10"	19' 3"	24' 4"	21' 3"	17' 10"	22' 10"	20' 6"	16' 10"	21' 9"	19' 0"	16' 0"	20' 9"	18' 2"	15' 3"	19' 3"	16' 10"	14' 2"
600S300-54	50	12	47' 3"	37' 6"	32' 9"	29' 3"	25' 7"	21' 7"	26' 7"	23' 3"	19' 7"	24' 8"	21' 7"	18' 2"	23' 3"	20' 3"	17' 1"	22' 1"	19' 3"	16' 3"	21' 1"	18' 6"	15' 7"	19' 7"	17' 1"	14' 6"
	50	16	43' 0"	34' 1"	29' 9"	26' 7"	23' 3"	19' 7"	24' 2"	21' 1"	17' 9"	22' 6"	19' 7"	16' 7"	21' 1"	18' 6"	15' 7"	20' 1"	17' 6"	14' 9"	19' 2"	16' 9"	14' 2"	17' 9"	15' 7"	13' 1"
	50	24	37' 6"	29' 9"	26' 0"	23' 3"	20' 3"	17' 1"	21' 1"	18' 6"	15' 7"	19' 7"	17' 1"	14' 6"	18' 6"	16' 1"	13' 7"	17' 6"	15' 3"	12' 10"	16' 7"	14' 8"	12' 4"	14' 10"	13' 7"	11' 6"
600S300-68	50	12	51' 7"	40' 10"	35' 8"	32' 0"	27' 10"	23' 6"	29' 0"	25' 4"	21' 4"	26' 10"	23' 6"	19' 10"	25' 4"	22' 2"	18' 8"	24' 1"	21' 0"	17' 8"	23' 0"	20' 1"	17' 0"	21' 4"	18' 8"	15' 9"
	50	16	46' 9"	37' 2"	32' 6"	29' 0"	25' 4"	21' 4"	26' 4"	23' 0"	19' 4"	24' 6"	21' 4"	18' 0"	23' 0"	20' 1"	17' 0"	21' 10"	19' 1"	16' 1"	20' 10"	18' 3"	15' 4"	19' 4"	17' 0"	14' 3"
	50	24	40' 10"	32' 6"	28' 4"	25' 4"	22' 2"	18' 8"	23' 0"	20' 1"	17' 0"	21' 4"	18' 8"	15' 9"	20' 1"	17' 7"	14' 9"	19' 1"	16' 8"	14' 1"	18' 3"	16' 0"	13' 6"	17' 0"	14' 9"	12' 6"
600S300-97	50	12	57' 9"	45' 9"	40' 0"	35' 9"	31' 3"	26' 4"	32' 6"	28' 4"	24' 0"	30' 2"	26' 4"	22' 2"	28' 4"	24' 9"	20' 10"	27' 0"	23' 7"	19' 10"	25' 9"	22' 6"	19' 0"	24' 0"	20' 10"	17' 8"
	50	16	52' 6"	41' 7"	36' 4"	32' 6"	28' 4"	24' 0"	29' 6"	25' 9"	21' 9"	27' 4"	24' 0"	20' 2"	25' 9"	22' 6"	19' 0"	24' 6"	21' 4"	18' 1"	23' 6"	20' 6"	17' 3"	21' 9"	19' 0"	16' 0"
	50	24	45' 9"	36' 4"	31' 9"	28' 4"	24' 9"	20' 10"	25' 9"	22' 6"	19' 0"	24' 0"	20' 10"	17' 8"	22' 6"	19' 8"	16' 7"	21' 4"	18' 8"	15' 9"	20' 6"	17' 10"	15' 1"	19' 0"	16' 7"	

CURTAINWALL LIMITING HEIGHTS - SINGLE SPAN

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
800S162-97	ksi																									
	50	12	63' 4"	50' 3"	44' 0"	39' 3"	34' 3"	28' 10"	35' 8"	31' 2"	26' 3"	33' 1"	28' 10"	24' 4"	31' 2"	27' 2"	23' 0"	29' 7"	25' 10"	21' 9"	28' 3"	24' 8"	20' 10"	26' 3"	23' 0"	19' 4"
	50	16	57' 7"	45' 8"	39' 10"	35' 8"	31' 2"	26' 3"	32' 4"	28' 3"	23' 10"	30' 1"	26' 3"	22' 2"	28' 3"	24' 8"	20' 10"	26' 10"	23' 6"	19' 9"	25' 8"	22' 6"	19' 0"	23' 10"	20' 10"	17' 7"
800S162-118	50	12	67' 1"	53' 2"	46' 6"	41' 7"	36' 3"	30' 7"	37' 9"	33' 0"	27' 9"	35' 1"	30' 7"	25' 9"	33' 0"	28' 9"	24' 3"	31' 3"	27' 4"	23' 1"	30' 0"	26' 2"	22' 1"	27' 9"	24' 3"	20' 6"
	50	16	60' 10"	48' 4"	42' 2"	37' 9"	33' 0"	27' 9"	34' 3"	30' 0"	25' 3"	31' 10"	27' 9"	23' 6"	30' 0"	26' 2"	22' 1"	28' 6"	24' 10"	21' 0"	27' 2"	23' 9"	20' 1"	25' 3"	22' 1"	18' 7"
	50	24	53' 2"	42' 2"	36' 10"	33' 0"	28' 9"	24' 3"	30' 0"	26' 2"	22' 1"	27' 9"	24' 3"	20' 6"	26' 2"	22' 10"	19' 3"	24' 10"	21' 8"	18' 3"	23' 9"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"
800S200-43	33	12	51' 9"	41' 1"	35' 10"	32' 1"	28' 0"	23' 8"	29' 2"	25' 6"	21' 6"	26' 1"	23' 8"	20' 0"	23' 9"	22' 3"	18' 9"	22' 1"	21' 1"	17' 9"	20' 7"	20' 2"	17' 1"	18' 6"	18' 6"	15' 9"
	33	16	47' 1"	37' 4"	32' 7"	29' 2"	25' 6"	21' 6"	25' 3"	23' 2"	19' 6"	22' 7"	21' 6"	18' 1"	20' 7"	20' 2"	17' 1"	19' 1"	19' 1"	16' 2"	17' 10"	17' 10"	15' 6"	16' 0"	16' 0"	14' 4"
	33	24	41' 1"	32' 7"	28' 6"	23' 9"	22' 3"	18' 9"	20' 7"	20' 2"	17' 1"	18' 6"	18' 6"	15' 9"	16' 9"	16' 9"	14' 10"	15' 7"	15' 7"	14' 2"	14' 7"	14' 7"	13' 6"	13' 1"	13' 1"	12' 7"
800S200-43	50	12	51' 9"	41' 1"	35' 10"	32' 1"	28' 0"	23' 8"	29' 2"	25' 6"	21' 6"	27' 1"	23' 8"	20' 0"	25' 6"	22' 3"	18' 9"	24' 2"	21' 1"	17' 9"	23' 1"	20' 2"	17' 1"	20' 7"	18' 9"	15' 9"
	50	16	47' 1"	37' 4"	32' 7"	29' 2"	25' 6"	21' 6"	26' 6"	23' 2"	19' 6"	24' 7"	21' 6"	18' 1"	23' 1"	20' 2"	17' 1"	21' 3"	19' 2"	16' 2"	20' 0"	18' 4"	15' 6"	17' 10"	17' 1"	14' 4"
	50	24	41' 1"	32' 7"	28' 6"	25' 6"	22' 3"	18' 9"	23' 1"	20' 2"	17' 1"	20' 7"	18' 9"	15' 9"	18' 9"	17' 8"	14' 10"	17' 4"	16' 9"	14' 2"	16' 3"	16' 3"	14' 7"	14' 7"	14' 7"	12' 7"
800S200-54	50	12	55' 7"	44' 2"	38' 7"	34' 6"	30' 1"	25' 4"	31' 3"	27' 4"	23' 1"	29' 1"	25' 4"	21' 4"	27' 4"	23' 10"	20' 2"	26' 0"	22' 8"	19' 2"	24' 10"	21' 8"	18' 3"	23' 1"	20' 2"	17' 0"
	50	16	50' 7"	40' 1"	35' 1"	31' 3"	27' 4"	23' 1"	28' 6"	24' 10"	21' 0"	26' 4"	23' 1"	19' 6"	24' 10"	21' 8"	18' 3"	23' 7"	20' 7"	17' 4"	22' 7"	19' 8"	16' 8"	21' 0"	18' 3"	15' 6"
	50	24	44' 2"	35' 1"	30' 7"	27' 4"	23' 10"	20' 2"	24' 10"	21' 8"	18' 3"	23' 1"	20' 2"	17' 0"	21' 8"	19' 0"	16' 0"	20' 7"	18' 0"	15' 2"	19' 3"	17' 2"	14' 6"	17' 3"	16' 0"	13' 6"
800S200-68	50	12	59' 9"	47' 4"	41' 4"	37' 0"	32' 4"	27' 3"	33' 8"	29' 4"	24' 9"	31' 2"	27' 3"	23' 0"	29' 4"	25' 8"	21' 8"	27' 10"	24' 4"	20' 7"	26' 8"	23' 3"	19' 8"	24' 9"	21' 8"	18' 3"
	50	16	54' 3"	43' 1"	37' 7"	33' 8"	29' 4"	24' 9"	30' 7"	26' 8"	22' 6"	28' 4"	24' 9"	20' 10"	26' 8"	23' 3"	19' 8"	25' 4"	22' 2"	18' 8"	24' 3"	21' 2"	17' 10"	22' 6"	19' 8"	16' 7"
	50	24	47' 4"	37' 7"	32' 10"	29' 4"	25' 8"	21' 8"	26' 8"	23' 3"	19' 8"	24' 9"	21' 8"	18' 3"	23' 3"	20' 4"	17' 2"	22' 2"	19' 4"	16' 3"	21' 2"	18' 6"	15' 7"	19' 8"	17' 2"	14' 6"
800S200-97	50	12	66' 6"	52' 9"	46' 1"	41' 2"	36' 0"	30' 4"	37' 4"	32' 8"	27' 7"	34' 9"	30' 4"	25' 7"	32' 8"	28' 7"	24' 1"	31' 1"	27' 1"	22' 10"	29' 8"	26' 0"	21' 10"	27' 7"	24' 1"	20' 3"
	50	16	60' 4"	47' 10"	41' 10"	37' 4"	32' 8"	27' 7"	34' 0"	29' 8"	25' 1"	31' 7"	27' 7"	23' 3"	29' 8"	26' 0"	21' 10"	28' 2"	24' 8"	20' 9"	27' 0"	23' 7"	19' 10"	25' 1"	21' 10"	18' 6"
	50	24	52' 9"	41' 10"	36' 7"	32' 8"	28' 7"	24' 1"	29' 8"	26' 0"	21' 10"	27' 7"	24' 1"	20' 3"	26' 0"	22' 8"	19' 1"	24' 8"	21' 6"	18' 2"	23' 7"	20' 7"	17' 4"	21' 10"	19' 1"	16' 1"
800S200-118	50	12	70' 4"	55' 10"	48' 9"	43' 7"	38' 1"	32' 2"	39' 8"	34' 7"	29' 2"	36' 9"	32' 2"	27' 1"	34' 7"	30' 3"	25' 6"	32' 10"	28' 8"	24' 2"	31' 6"	27' 6"	23' 2"	29' 2"	25' 6"	21' 6"
	50	16	64' 0"	50' 9"	44' 4"	39' 8"	34' 7"	29' 2"	36' 0"	31' 6"	26' 6"	33' 4"	29' 2"	24' 7"	31' 6"	27' 6"	23' 2"	29' 10"	26' 1"	22' 0"	28' 7"	25' 0"	21' 1"	26' 6"	23' 2"	19' 7"
	50	24	55' 10"	44' 4"	38' 9"	34' 7"	30' 3"	25' 6"	31' 6"	27' 6"	23' 2"	29' 2"	25' 6"	21' 6"	27' 6"	24' 0"	20' 3"	26' 1"	22' 9"	19' 2"	25' 0"	21' 9"	18' 4"	23' 2"	20' 3"	17' 1"
800S250-43	33	12	54' 0"	42' 10"	37' 6"	33' 6"	29' 3"	24' 8"	29' 4"	26' 7"	22' 4"	26' 3"	24' 8"	20' 9"	24' 0"	23' 2"	19' 7"	22' 2"	22' 1"	18' 7"	20' 9"	20' 9"	17' 9"	18' 7"	18' 7"	16' 6"
	33	16	49' 1"	39' 0"	34' 0"	29' 4"	26' 7"	22' 4"	25' 6"	24' 1"	20' 4"	22' 9"	22' 4"	18' 10"	20' 9"	20' 9"	17' 9"	19' 3"	19' 3"	16' 10"	18' 0"	18' 0"	16' 2"	16' 1"	16' 1"	15' 0"
	33	24	41' 7"	34' 0"	29' 8"	24' 0"	23' 2"	19' 7"	20' 9"	20' 9"	17' 9"	18' 7"	18' 7"	16' 6"	17' 0"	17' 0"	15' 6"	15' 8"	15' 8"	14' 9"	14' 8"	14' 8"	14' 1"	13' 2"	13' 2"	13' 1"
800S250-43	50	12	53' 6"	42' 4"	37' 1"	33' 1"	29' 0"	24' 4"	30' 1"	26' 3"	22' 2"	28' 0"	24' 4"	20' 7"	26' 3"	23' 0"	19' 4"	24' 9"	21' 9"	18' 4"	23' 2"	20' 10"	17' 7"	20' 9"	19' 4"	16' 3"
	50	16	48' 7"	38' 7"	33' 8"	30' 1"	26' 3"	22' 2"	27' 4"	23' 10"	20' 2"	25' 4"	22' 2"	18' 8"	23' 2"	20' 10"	17' 7"	21' 6"	19' 9"	16' 8"	20' 1"	19' 0"	16' 0"	18' 0"	17' 7"	14' 10"
	50	24	42' 4"	33' 8"	29' 4"	26' 3"	23' 0"	19' 4"	23' 2"	20' 10"	17' 7"	20' 9"	19' 4"	16' 3"	19' 0"	18' 2"	15' 4"	17' 6"	17' 3"	14' 7"	16' 4"	16' 4"	14' 0"	14' 8"	14' 8"	13' 0"
800S250-54	50	12	57' 9"	45' 10"	40' 1"	35' 9"	31' 3"	26' 4"	32' 7"	28' 6"	24' 0"	30' 2"	26' 4"	22' 3"	28' 6"	24' 10"	21' 0"	27' 0"	23' 7"	19' 10"	25' 9"	22' 7"	19' 0"	24' 0"	21' 0"	17' 8"
	50	16	52' 6"	41' 8"	36' 4"	32' 7"	28' 6"	24' 0"	29' 7"	25' 9"	21' 9"	27' 6"	24' 0"	20' 2"	25' 9"	22' 7"	19' 0"	24' 7"	21' 4"	18' 1"	23' 6"	20' 6"	17' 3"	21' 4"	19' 0"	16' 1"
	50	24	45' 10"	36' 4"	31' 9"	28' 6"	24' 10"	21' 0"	25' 9"	22' 7"	19' 0"	24' 0"	21' 0"	17' 8"	22' 6"	19' 8"	16' 7"	20' 10"	18' 8"	15' 9"	19' 6"	17' 10"	15' 1"	17' 4"	16' 7"	14' 0"
800S250-68	50	12	62' 4"	49' 6"	43' 3"	38' 8"	33' 9"	28' 6"	35' 1"	30' 8"	25' 10"	32' 7"	28' 6"	24' 0"	30' 8"	26' 9"	22' 7"	29' 2"	25' 6"	21' 6"	27' 10"	24' 4"	20' 6"	25' 10"	22' 7"	19' 1"
	50	16	56' 8"	45' 0"	39' 3"	35' 1"	30' 8"	25' 10"	31' 10"	27' 10"	23' 6"	29' 7"	25' 10"	21' 9"	27' 10"	24' 4"	20' 6"	26' 6"	23' 1"	19' 6"	25' 3"	22' 1"	18' 8"	23' 6"	20' 6"	17' 3"
	50	24	49' 6"	39' 3"	34' 3"	30' 8"	26' 9"	22' 7"	27' 10"	24' 4"	20' 6"	25' 10"	22' 7"	19' 1"	24' 4"	21' 3"	17' 10"	23' 1"	20' 2"	17' 0"	22' 1"	19' 3"	16' 3"	20' 3"	17' 10"	15' 1"
800S250-97	50	12	69' 6"	55' 1"	48' 2"	43' 1"	37' 7"	31' 8"	39' 1"	34' 2"	28' 9"	36' 3"	31' 8"	26' 9"	34' 2"	29' 10"	25' 2"	32' 6"	28' 4"	23' 10"	31' 1"	27' 1"	22' 10"	28' 9"	25' 2"	21' 2"
	50	16	63' 1"	50' 1"	43' 9"	39' 1"	34' 2"	28' 9"	35' 6"	31' 1"	26' 2"	33' 0"	28' 9"	24' 3"	31' 1"	27' 1"	22' 10"	29' 6"	25' 9"	21' 8"	28' 2"	24' 7"	20' 9"	26' 2"	22' 10"	19' 3"
	50	24	55' 1"																							

CURTAINWALL LIMITING HEIGHTS - DOUBLE SPAN

NOTES:

1. Listed wind pressures represent the calculated design wind pressure (1.0W based on 2009 IBC or 0.6W based on 2012 IBC). For deflection calculations, the listed wind pressures have been multiplied by 0.70 as per IBC. The 5 psf pressure has not been reduced for deflection calculations.
2. Studs must be braced against rotation and lateral displacement at all supports.
3. Studs are assumed to be adequately braced at a maximum spacing of L_b to develop the full allowable moment, M_a .
4. Web crippling check is based on 1" of bearing at end supports and 3" of bearing at interior support.
5. Shear and web crippling capacity at end supports have NOT been reduced for punchouts. At interior support, the shear and web crippling capacity has been reduced for the presence of punchout adjacent to the support.
6. Combined bending and shear check at interior support is based on unreinforced web as per AISI S100 (Eq.C3.3.1-1). The shear and combined bending and shear check at interior support have been reduced for the presence of punchouts adjacent to the support.
7. Listed "Double Span" limiting heights are based on the distance from either end to the center of the interior support, with the stud continuous past the interior support.
8. "e"- web stiffeners required at ends.
9. See General Notes on page 6.

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		ksi	O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360
362S137-33	33	12	24'8"	24'7"	21'6"	14'3"	14'3"	14'2"	12'4"	12'4"	12'4"	11'1"	11'1"	11'1"	10'1"	10'1"	10'1"	9'3"	9'3"	9'3"	8'8"	8'8"	8'8"	7'9"	7'9"	7'9"
	33	16	21'4"	21'4"	19'7"	12'4"	12'4"	12'4"	10'8"	10'8"	10'8"	9'7"	9'7"	9'7"	8'8"	8'8"	8'8"	8'1"	8'1"	8'1"	7'7"	7'7"	7'7"	6'9"	6'9"	6'9"
	33	24	17'6"	17'6"	17'1"	10'1"	10'1"	10'1"	8'8"	8'8"	8'8"	7'9"	7'9"	7'9"	7'1"	7'1"	7'1"	6'7"	6'7"	6'7"	6'2"	6'2"	6'2"	5'6"	5'6"	5'6"
362S137-43	33	12	29'0"	26'9"	23'4"	16'9"	16'9"	15'4"	14'6"	14'6"	14'0"	13'0"	13'0"	13'0"	11'10"	11'10"	11'10"	11'0"	11'0"	11'0"	10'3"	10'3"	10'3"	9'2"	9'2"	9'2"
	33	16	25'1"	24'3"	21'3"	14'6"	14'6"	14'0"	12'7"	12'7"	12'7"	11'2"	11'2"	11'2"	10'3"	10'3"	10'3"	9'6"	9'6"	9'6"	8'10"	8'10"	8'10"	8'0"	8'0"	8'0"
	33	24	20'6"	20'6"	18'7"	11'10"	11'10"	11'10"	10'3"	10'3"	10'3"	9'2"	9'2"	9'2"	8'4"	8'4"	8'4"	7'9"	7'9"	7'9"	7'3"	7'3"	7'3"	6'6"	6'6"	6.5e
362S137-43	50	12	33'9"	26'9"	23'4"	19'8"	18'3"	15'4"	17'1"	16'7"	14'0"	15'3"	15'3"	13'0"	13'10"	13'10"	12'2"	12'10"	12'10"	11'7"	12'1"	12'1"	11'1"	10'9"	10'9"	10'3"
	50	16	29'6"	24'3"	21'3"	17'1"	16'7"	14'0"	14'9"	14'9"	12'8"	13'2"	13'2"	11'9"	12'1"	12'1"	11'1"	11'2"	11'2"	10'7"	10'4"	10'4"	10'1"	9'3"	9'3"	9'3"
	50	24	24'1"	21'3"	18'7"	13'10"	13'10"	12'2"	12'1"	12'1"	11'1"	10'9"	10'9"	10'3"	9'9"	9'9"	9'8"	9'1"	9'1"	9'1"	8'6"	8'6"	8'6"	7'7"	7'7"	7'7"
362S137-54	50	12	36'1"	28'8"	25'1"	22'4"	19'7"	16'6"	19'6"	17'9"	15'0"	17'6"	16'6"	13'10"	15'10"	15'6"	13'1"	14'8"	14'8"	12'4"	13'9"	13'9"	11'10"	12'3"	12'3"	11'0"
	50	16	32'9"	26'1"	22'9"	19'6"	17'9"	15'0"	16'10"	16'2"	13'7"	15'1"	15'0"	12'7"	13'9"	13'9"	11'10"	12'9"	12'9"	11'3"	11'10"	11'10"	10'9"	10'8"	10'8"	10'0"
	50	24	27'7"	22'9"	19'10"	15'10"	15'6"	13'1"	13'9"	13'9"	11'10"	12'3"	12'3"	11'0"	11'3"	11'3"	10'4"	10'4"	10'4"	9'10"	9'9"	9'9"	9'4"	8'8"	8'8"	8'8"
362S137-68	50	12	38'7"	30'8"	26'9"	23'10"	20'10"	17'7"	21'8"	19'0"	16'0"	19'9"	17'7"	14'10"	18'1"	16'7"	14'0"	16'9"	15'9"	13'3"	15'8"	15'1"	12'8"	14'0"	14'0"	11'9"
	50	16	35'1"	27'9"	24'3"	21'8"	19'0"	16'0"	19'2"	17'3"	14'7"	17'2"	16'0"	13'6"	15'8"	15'1"	12'8"	14'6"	14'3"	12'1"	13'7"	13'7"	11'7"	12'2"	12'2"	10'8"
	50	24	30'8"	24'3"	21'3"	18'1"	16'7"	14'0"	15'8"	15'1"	12'8"	14'0"	14'0"	11'9"	12'9"	12'9"	11'1"	11'10"	11'10"	10'7"	11'1"	11'1"	10'1"	9'10"	9'10"	9'4"
362S137-97	50	12	42'6"	33'8"	29'6"	26'3"	23'0"	19'4"	23'10"	20'10"	17'7"	22'2"	19'4"	16'4"	20'10"	18'3"	15'4"	19'10"	17'3"	14'7"	19'0"	16'7"	14'0"	17'7"	15'4"	13'0"
	50	16	38'7"	30'7"	26'9"	23'10"	20'10"	17'7"	21'8"	19'0"	16'0"	20'2"	17'7"	14'10"	19'0"	16'7"	14'0"	18'0"	15'9"	13'3"	17'3"	15'1"	12'8"	15'2"	14'0"	11'9"
	50	24	33'8"	26'9"	23'4"	20'10"	18'3"	15'4"	19'0"	16'7"	14'0"	17'7"	15'4"	13'0"	16'4"	14'6"	12'2"	14'8"	13'9"	11'7"	13'4"	13'2"	11'1"	11'4"	11.4	10.3
362S162-33	33	12	26'7"	25'9"	22'7"	15'3"	15'3"	14'10"	13'3"	13'3"	13'3"	11'10"	11'10"	11'10"	10'9"	10'9"	10'9"	10'0"	10'0"	10'0"	9'4"	9'4"	9'4"	8'4"	8'4"	8'4"
	33	16	23'0"	23'0"	20'6"	13'3"	13'3"	13'3"	11'6"	11'6"	11'6"	10'3"	10'3"	10'3"	9'4"	9'4"	9'4"	8'8"	8'8"	8'8"	8'1"	8'1"	8'1"	7'3"	7'3"	7'3"
	33	24	18'9"	18'9"	17'10"	10'9"	10'9"	10'9"	9'4"	9'4"	9'4"	8'4"	8'4"	8'4"	7'8"	7'8"	7'8"	7'1"	7'1"	7'1"	6'7"	6'7"	6'7"	5'10"	5'10"	5'10"
362S162-43	33	12	31'3"	28'1"	24'6"	18'1"	18'1"	16'2"	15'7"	15'7"	14'8"	14'0"	14'0"	13'7"	12'9"	12'9"	12'9"	11'9"	11'9"	11'9"	11'1"	11'1"	11'1"	9'10"	9'10"	9'10"
	33	16	27'1"	25'6"	22'3"	15'7"	15'7"	14'8"	13'6"	13'6"	13'3"	12'1"	12'1"	12'1"	11'1"	11'1"	11'1"	10'2"	10'2"	10'2"	9'7"	9'7"	9'7"	8'7"	8'7"	8'7"
	33	24	22'1"	22'1"	19'6"	12'9"	12'9"	12'9"	11'1"	11'1"	11'1"	9'10"	9'10"	9'10"	9'0"	9'0"	9'0"	8'4"	8'4"	8'4"	7'9"	7'9"	7'9"	7'0"	7'0"	7'0"
362S162-43	50	12	35'4"	28'1"	24'6"	20'8"	19'2"	16'2"	17'10"	17'4"	14'8"	16'0"	16'0"	13'7"	14'7"	14'7"	12'9"	13'6"	13'6"	12'2"	12'8"	12'8"	11'3"	11'3"	11'3"	10'9"
	50	16	31'0"	25'6"	22'3"	17'10"	17'4"	14'8"	15'6"	15'6"	13'3"	13'10"	13'10"	12'4"	12'8"	12'8"	11'8"	11'8"	11'8"	11'1"	11'0"	11'0"	10'7"	9'9"	9'9"	9'9"
	50	24	25'3"	22'3"	19'6"	14'7"	14'7"	12'9"	12'8"	12'8"	11'8"	11'3"	11'3"	10'9"	10'3"	10'3"	10'2"	9'7"	9'7"	9'7"	9'0"	9'0"	9'0"	8'0"	8'0"	8'0"
362S162-54	50	12	37'10"	30'1"	26'3"	23'6"	20'6"	17'3"	21'0"	18'7"	15'8"	18'9"	17'3"	14'7"	17'2"	16'3"	13'8"	15'10"	15'6"	13'1"	14'10"	14'9"	12'6"	13'3"	13'3"	11'7"
	50	16	34'4"	27'3"	23'10"	21'0"	18'7"	15'8"	18'2"	16'10"	14'3"	16'3"	15'8"	13'3"	14'10"	14'9"	12'6"	13'9"	13'9"	11'10"	12'10"	12'10"	11'3"	11'6"	11'6"	10'6"
	50	24	29'9"	23'10"	20'10"	17'2"	16'3"	13'8"	14'10"	14'9"	12'6"	13'3"	13'3"	11'7"	12'1"	12'1"	10'10"	11'2"	11'2"	10'4"	10'6"	10'6"	9'10"	9'4"	9'4"	9'2"
362S162-68	50	12	40'7"	32'2"	28'1"	25'1"	22'0"	18'6"	22'9"	20'0"	16'9"	21'2"	18'6"	15'7"	19'6"	17'4"	14'8"	18'1"	16'7"	14'0"	16'10"	15'9"	13'4"	15'1"	14'8"	12'4"
	50	16	36'10"	29'2"	25'7"	22'9"	20'0"	16'9"	20'8"	18'1"	15'3"	18'6"	16'9"	14'2"	16'10"	15'9"	13'4"	15'8"	15'0"	12'8"	14'8"	14'4"	12'1"	13'1"	13'1"	11'3"
	50	24	32'2"	25'7"	22'3"	19'6"	17'4"	14'8"	16'10"	15'9"	13'4"	15'1"	14'8"	12'4"	13'9"	13'9"	11'8"	12'9"	12'9"	11'1"	12'0"	12'0"	10'7"	10'8"	10'8"	9'9"
362S162-97	50	12	44'8"	35'6"	31'0"	27'8"	24'2"	20'4"	25'2"	22'0"	18'7"	23'4"	20'4"	17'2"	22'0"	19'2"	16'2"	20'10"	18'3"	15'4"	20'0"	17'6"	14'8"	18'7"	16'2"	13'8"
	50	16	40'8"	32'3"	28'2"	25'2"	22'0"	18'7"	22'10"	20'0"	16'10"	21'3"	18'7"	15'8"	20'0"	17'6"	14'8"	19'0"	16'7"	14'0"	18'2"	15'10"	13'4"	15'9"	14'8"	12'4"
	50	24	35'6"	28'2"	24'7"	22'0"	19'2"	16'2"	20'0"	17'6"	14'8"	18'7"	16'2"	13'8"	17'0"	15'3"	12'10"	15'3"	14'6"	12'2"	13'10"	13'10"	11'8"	11'9"	11'9"	10'10"
362S162-118	50	12	47'1"	37'4"	32'8"	29'2"	25'6"	21'6"	26'6"	23'2"</																

CURTAINWALL LIMITING HEIGHTS - DOUBLE SPAN

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
	k _{si}	O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362S200-97	50	12	47' 6"	37' 8"	32' 10"	29' 4"	25' 8"	21' 8"	26' 8"	23' 3"	19' 8"	24' 9"	21' 8"	18' 3"	23' 3"	20' 4"	17' 2"	22' 2"	19' 4"	16' 3"	21' 2"	18' 6"	15' 7"	19' 8"	17' 2"	14' 6"
	50	16	43' 1"	34' 2"	29' 10"	26' 8"	23' 3"	19' 8"	24' 3"	21' 2"	17' 10"	22' 6"	19' 8"	16' 7"	21' 2"	18' 6"	15' 7"	20' 1"	17' 7"	14' 9"	19' 3"	16' 9"	14' 2"	16' 6"	15' 7"	13' 2"
	50	24	37' 8"	29' 10"	26' 1"	23' 3"	20' 4"	17' 2"	21' 2"	18' 6"	15' 7"	19' 8"	17' 2"	14' 6"	17' 9"	16' 2"	13' 8"	16' 0"	15' 4"	13' 0"	14' 6"	14' 6"	12' 4"	12' 3"	12' 3"	11' 6"
362S200-118	50	12	50' 0"	39' 8"	34' 8"	31' 0"	27' 1"	22' 10"	28' 2"	24' 7"	20' 9"	26' 2"	22' 10"	19' 3"	24' 7"	21' 6"	18' 1"	23' 4"	20' 4"	17' 2"	22' 4"	19' 6"	16' 6"	20' 4"	18' 1"	15' 3"
	50	16	45' 6"	36' 1"	31' 6"	28' 2"	24' 7"	20' 9"	25' 7"	22' 4"	18' 10"	23' 9"	20' 9"	17' 6"	22' 4"	19' 6"	16' 6"	21' 2"	18' 7"	15' 8"	19' 6"	17' 9"	15' 0"	16' 6"	16' 6"	13' 10"
	50	24	39' 8"	31' 6"	27' 6"	24' 7"	21' 6"	18' 1"	22' 4"	19' 6"	16' 6"	20' 4"	18' 1"	15' 3"	17' 10"	17' 1"	14' 4"	15' 10"	15' 10"	13' 8"	14' 4"	14' 4"	13' 1"	12' 1"	12' 1"	12' 1"
362S250-33	33	12	28' 9"	28' 3"	24' 9"	16' 7"	16' 7"	16' 3"	14' 4"	14' 4"	14' 4"	12' 10"	12' 10"	12' 10"	11' 9"	11' 9"	11' 9"	10' 10"	10' 10"	10' 10"	10' 2"	10' 2"	10' 2"	9' 1"	9' 1"	9' 1"
	33	16	25' 0"	25' 0"	22' 6"	14' 4"	14' 4"	14' 4"	12' 6"	12' 6"	12' 6"	11' 2"	11' 2"	11' 2"	10' 2"	10' 2"	10' 2"	9' 4"	9' 4"	9' 4"	8' 9"	8' 9"	8' 9"	7' 10"	7' 10"	7' 10"
	33	24	20' 4"	20' 4"	19' 8"	11' 9"	11' 9"	11' 9"	10' 2"	10' 2"	10' 2"	9' 1"	9' 1"	9' 1"	8' 3"	8' 3"	8' 3"	7' 8"	7' 8"	7' 8"	7' 2"	7' 2"	7' 2"	6' 2"	6' 2"	6' 2"
362S250-43	33	12	34' 4"	31' 3"	27' 3"	19' 10"	19' 10"	18' 0"	17' 2"	17' 2"	16' 4"	15' 4"	15' 4"	15' 2"	14' 0"	14' 0"	14' 0"	13' 0"	13' 0"	13' 0"	12' 2"	12' 2"	12' 2"	10' 10"	10' 10"	10' 10"
	33	16	29' 9"	28' 4"	24' 9"	17' 2"	17' 2"	16' 4"	14' 10"	14' 10"	14' 10"	13' 3"	13' 3"	13' 3"	12' 2"	12' 2"	12' 2"	11' 3"	11' 3"	11' 3"	10' 6"	10' 6"	10' 6"	9' 4"	9' 4"	9' 4"
	33	24	24' 3"	24' 3"	21' 8"	14' 0"	14' 0"	14' 0"	12' 2"	12' 2"	12' 2"	10' 10"	10' 10"	10' 10"	9' 10"	9' 10"	9' 10"	9' 2"	9' 2"	9' 2"	8' 7"	8' 7"	8' 7"	7' 7"	7' 7"	7' 7"
362S250-43	50	12	38' 10"	30' 10"	27' 0"	22' 9"	21' 1"	17' 9"	19' 8"	19' 1"	16' 2"	17' 8"	17' 8"	15' 0"	16' 1"	16' 1"	14' 1"	14' 10"	14' 10"	13' 4"	14' 0"	14' 0"	12' 9"	12' 6"	12' 6"	11' 10"
	50	16	34' 2"	28' 1"	24' 6"	19' 8"	19' 1"	16' 2"	17' 1"	17' 1"	14' 8"	15' 3"	15' 3"	13' 7"	14' 0"	14' 0"	12' 9"	12' 10"	12' 10"	12' 2"	12' 1"	11' 7"	10' 9"	10' 9"	10' 9"	
	50	24	27' 10"	24' 6"	21' 4"	16' 1"	16' 1"	14' 1"	14' 0"	14' 0"	12' 9"	12' 6"	12' 6"	11' 10"	11' 4"	11' 4"	11' 2"	10' 7"	10' 7"	10' 7"	9' 10"	9' 10"	9' 10"	8' 9"	8' 9"	8' 9"
362S250-54	50	12	42' 1"	33' 4"	29' 2"	26' 1"	22' 9"	19' 2"	22' 8"	20' 8"	17' 6"	20' 3"	19' 2"	16' 2"	18' 6"	18' 1"	15' 3"	17' 1"	17' 1"	14' 6"	16' 0"	16' 0"	13' 10"	14' 3"	14' 3"	12' 10"
	50	16	38' 3"	30' 4"	26' 6"	22' 8"	20' 8"	17' 6"	19' 7"	18' 9"	15' 10"	17' 6"	17' 6"	14' 8"	16' 0"	16' 0"	13' 10"	14' 9"	13' 2"	13' 10"	13' 10"	12' 7"	12' 4"	12' 4"	11' 8"	
	50	24	32' 0"	26' 6"	23' 2"	18' 6"	18' 1"	15' 3"	16' 0"	16' 0"	13' 10"	14' 3"	14' 3"	12' 10"	13' 1"	13' 1"	12' 1"	12' 1"	11' 6"	11' 6"	11' 6"	11' 0"	10' 1"	10' 1"	10' 1"	
362S250-68	50	12	45' 3"	36' 0"	31' 4"	28' 1"	24' 6"	20' 8"	25' 6"	22' 3"	18' 9"	23' 6"	20' 8"	17' 6"	21' 4"	19' 6"	16' 4"	19' 9"	18' 6"	15' 7"	18' 6"	17' 8"	14' 10"	16' 7"	16' 4"	13' 10"
	50	16	41' 2"	32' 8"	28' 6"	25' 6"	22' 3"	18' 9"	22' 8"	20' 3"	17' 1"	20' 3"	18' 9"	15' 10"	18' 6"	17' 8"	14' 10"	17' 2"	16' 9"	14' 2"	16' 1"	16' 1"	13' 7"	14' 4"	14' 4"	12' 7"
	50	24	36' 0"	28' 6"	24' 10"	21' 4"	19' 6"	16' 4"	18' 6"	17' 8"	14' 10"	16' 7"	16' 4"	13' 10"	15' 1"	15' 1"	13' 0"	14' 0"	14' 0"	12' 4"	13' 1"	13' 1"	11' 9"	11' 6"	11' 6"	11' 0"
362S250-97	50	12	50' 2"	39' 10"	34' 9"	31' 1"	27' 2"	22' 10"	28' 3"	24' 8"	20' 9"	26' 2"	22' 10"	19' 3"	24' 8"	21' 7"	18' 2"	23' 6"	20' 6"	17' 3"	22' 4"	19' 7"	16' 6"	20' 9"	18' 2"	15' 3"
	50	16	45' 7"	36' 2"	31' 7"	28' 3"	24' 8"	20' 9"	25' 8"	22' 4"	18' 10"	23' 9"	20' 9"	17' 7"	22' 4"	19' 7"	16' 6"	21' 3"	18' 7"	15' 8"	19' 10"	17' 9"	15' 0"	17' 0"	16' 6"	13' 10"
	50	24	39' 10"	31' 7"	27' 7"	24' 8"	21' 7"	18' 2"	22' 4"	19' 7"	16' 6"	20' 9"	18' 2"	15' 3"	18' 3"	17' 1"	14' 4"	16' 4"	16' 3"	13' 8"	14' 9"	14' 9"	13' 1"	12' 7"	12' 7"	12' 2"
362S250-118	50	12	53' 0"	42' 1"	36' 9"	32' 10"	28' 8"	24' 2"	29' 10"	26' 1"	22' 0"	27' 8"	24' 2"	20' 4"	26' 1"	22' 9"	19' 2"	24' 9"	21' 7"	18' 3"	23' 8"	20' 8"	17' 6"	21' 1"	19' 2"	16' 2"
	50	16	48' 2"	38' 2"	33' 4"	29' 10"	26' 1"	22' 0"	27' 1"	23' 8"	20' 8"	25' 2"	22' 0"	18' 7"	23' 8"	20' 8"	17' 6"	22' 2"	19' 8"	16' 7"	20' 1"	18' 9"	15' 10"	17' 0"	17' 0"	14' 8"
	50	24	42' 1"	33' 4"	29' 2"	26' 1"	22' 9"	19' 2"	23' 8"	20' 8"	17' 6"	21' 1"	19' 2"	16' 2"	18' 4"	18' 1"	15' 3"	16' 3"	16' 3"	14' 6"	14' 8"	13' 10"	12' 3"	12' 3"	12' 3"	
400S137-33	33	12	26' 1"	26' 1"	23' 2"	15' 1"	15' 1"	13' 1"	13' 1"	13' 1"	13' 1"	11' 8"	11' 8"	11' 8"	10' 8"	10' 8"	10' 8"	9' 10"	9' 10"	9' 10"	9' 2"	9' 2"	9' 2"	8' 3"	8' 3"	8' 3"
	33	16	22' 7"	22' 7"	21' 1"	13' 1"	13' 1"	13' 1"	11' 3"	11' 3"	11' 3"	10' 1"	10' 1"	10' 1"	9' 2"	9' 2"	9' 2"	8' 6"	8' 6"	8' 6"	8' 0"	8' 0"	8' 0"	7' 2"	7' 2"	7' 2"
	33	24	18' 6"	18' 6"	18' 4"	10' 8"	10' 8"	10' 8"	9' 2"	9' 2"	9' 2"	8' 3"	8' 3"	8' 3"	7' 6"	7' 6"	7' 6"	7' 0"	7' 0"	7' 0"	6' 6"	6' 6"	6' 6"	5' 9"	5' 9"	5' 9"
400S137-43	33	12	30' 8"	28' 10"	25' 3"	17' 9"	17' 9"	16' 7"	15' 4"	15' 4"	15' 1"	13' 9"	13' 9"	13' 9"	12' 7"	12' 7"	12' 7"	11' 7"	11' 7"	11' 7"	10' 10"	10' 10"	10' 10"	9' 8"	9' 8"	9' 8"
	33	16	26' 7"	26' 3"	23' 0"	15' 4"	15' 4"	15' 1"	13' 3"	13' 3"	13' 3"	11' 10"	11' 10"	11' 10"	10' 10"	10' 10"	10' 10"	10' 1"	10' 1"	10' 1"	9' 4"	9' 4"	9' 4"	8' 4"	8' 4"	8' 4"
	33	24	21' 8"	21' 8"	20' 1"	12' 7"	12' 7"	12' 7"	10' 10"	10' 10"	10' 10"	9' 8"	9' 8"	9' 8"	8' 10"	8' 10"	8' 10"	8' 2"	8' 2"	8' 2"	7' 8"	7' 8"	7' 8"	6' 10"	6' 10"	6' 10"
400-137-43	50	12	36' 1"	28' 10"	25' 3"	20' 9"	19' 8"	16' 7"	18' 0"	17' 10"	15' 1"	16' 1"	16' 1"	14' 0"	14' 8"	14' 8"	13' 2"	13' 7"	13' 7"	12' 7"	12' 8"	12' 8"	12' 0"	11' 4"	11' 4"	11' 1"
	50	16	31' 2"	26' 3"	23' 0"	18' 0"	17' 10"	15' 1"	15' 7"	15' 7"	13' 8"	14' 0"	14' 0"	12' 9"	12' 8"	12' 8"	12' 0"	11' 9"	11' 9"	11' 4"	11' 0"	11' 0"	10' 10"	9' 10"	9' 10"	9' 10"
	50	24	25' 6"	23' 0"	20' 1"	14' 8"	14' 8"	13' 2"																		

CURTAINWALL LIMITING HEIGHTS - DOUBLE SPAN

MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
	ksi	O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S200-43	50	12	40' 3"	32' 0"	27' 10"	23' 8"	21' 9"	18' 4"	20' 6"	19' 9"	16' 8"	18' 3"	18' 3"	15' 6"	16' 9"	16' 9"	14' 7"	15' 6"	15' 6"	13' 10"	14' 6"	14' 6"	13' 3"	13' 0"	13' 0"	12' 3"
	50	16	35' 6"	29' 1"	25' 4"	20' 6"	19' 9"	16' 8"	17' 9"	17' 9"	15' 2"	15' 10"	15' 10"	14' 1"	14' 6"	14' 6"	13' 3"	13' 4"	13' 4"	12' 7"	12' 7"	12' 7"	12' 1"	11' 2"	11' 2"	11' 2"
	50	24	29' 0"	25' 4"	22' 2"	16' 9"	16' 9"	14' 7"	14' 6"	14' 6"	13' 3"	13' 0"	13' 0"	12' 3"	11' 9"	11' 9"	11' 7"	11' 0"	11' 0"	10' 3"	10' 3"	10' 3"	9' 2"	9' 2"	9' 2"	9' 2"
400S200-54	50	12	43' 2"	34' 3"	30' 0"	26' 9"	23' 4"	19' 8"	23' 4"	21' 3"	17' 10"	20' 10"	19' 8"	16' 7"	19' 1"	18' 7"	15' 8"	17' 8"	17' 7"	14' 10"	16' 6"	16' 6"	14' 2"	14' 9"	14' 9"	13' 2"
	50	16	39' 3"	31' 2"	27' 2"	23' 4"	21' 3"	17' 10"	20' 3"	19' 3"	16' 3"	18' 1"	17' 10"	15' 1"	16' 6"	16' 6"	14' 2"	15' 3"	15' 3"	13' 6"	14' 3"	14' 3"	12' 10"	12' 9"	12' 9"	12' 0"
	50	24	33' 1"	27' 2"	23' 9"	19' 1"	18' 7"	15' 8"	16' 6"	16' 6"	14' 2"	14' 9"	14' 9"	13' 2"	13' 6"	13' 6"	12' 4"	12' 6"	12' 6"	11' 9"	11' 8"	11' 8"	11' 3"	10' 6"	10' 6"	10' 6"
400S200-68	50	12	46' 3"	36' 8"	32' 1"	28' 8"	25' 1"	21' 1"	26' 1"	22' 9"	19' 2"	24' 2"	21' 1"	17' 9"	22' 3"	19' 10"	16' 9"	20' 8"	18' 10"	15' 10"	19' 4"	18' 1"	15' 2"	17' 3"	16' 9"	14' 2"
	50	16	42' 1"	33' 4"	29' 2"	26' 1"	22' 9"	19' 2"	23' 8"	20' 8"	17' 6"	21' 2"	19' 2"	16' 2"	19' 4"	18' 1"	15' 2"	17' 10"	17' 10"	14' 6"	16' 9"	16' 9"	13' 10"	15' 0"	15' 0"	12' 10"
	50	24	36' 8"	29' 2"	25' 6"	22' 3"	19' 10"	16' 9"	19' 4"	18' 1"	15' 2"	17' 3"	16' 9"	14' 2"	15' 9"	15' 9"	13' 3"	14' 7"	14' 7"	12' 8"	13' 8"	13' 8"	12' 1"	12' 2"	12' 2"	11' 2"
400S200-97	50	12	51' 2"	40' 8"	35' 6"	31' 9"	27' 8"	23' 4"	28' 10"	25' 2"	21' 3"	26' 9"	23' 4"	19' 8"	25' 2"	22' 0"	18' 7"	23' 10"	20' 10"	17' 7"	22' 10"	20' 0"	16' 10"	21' 3"	18' 7"	15' 8"
	50	16	46' 7"	37' 0"	32' 3"	28' 10"	25' 2"	21' 3"	26' 2"	22' 10"	19' 3"	24' 3"	21' 3"	17' 10"	22' 10"	20' 0"	16' 10"	21' 9"	19' 0"	20' 9"	20' 9"	15' 3"	19' 2"	16' 10"	14' 2"	
	50	24	40' 8"	32' 3"	28' 2"	25' 2"	22' 0"	18' 7"	22' 10"	20' 0"	16' 10"	21' 3"	18' 7"	15' 8"	20' 0"	17' 6"	14' 8"	18' 8"	16' 7"	14' 0"	17' 3"	15' 10"	13' 4"	14' 9"	14' 8"	12' 4"
400S200-118	50	12	54' 1"	42' 10"	37' 6"	33' 6"	29' 3"	24' 8"	30' 4"	26' 7"	22' 4"	28' 3"	24' 8"	20' 9"	26' 7"	23' 2"	19' 7"	25' 3"	22' 1"	18' 7"	24' 2"	21' 1"	17' 9"	22' 4"	19' 7"	16' 6"
	50	16	49' 1"	39' 0"	34' 1"	30' 4"	26' 7"	22' 4"	27' 8"	24' 2"	20' 4"	25' 8"	22' 4"	18' 10"	24' 2"	21' 1"	17' 9"	23' 0"	20' 1"	16' 10"	22' 0"	19' 2"	16' 2"	20' 0"	17' 9"	15' 0"
	50	24	42' 10"	34' 1"	29' 9"	26' 7"	23' 2"	19' 7"	24' 2"	21' 1"	17' 9"	22' 4"	19' 7"	16' 6"	21' 1"	18' 4"	15' 7"	19' 3"	17' 6"	14' 9"	17' 7"	16' 9"	14' 1"	14' 10"	14' 10"	13' 1"
400S250-33	33	12	30' 4"	30' 4"	26' 8"	17' 7"	17' 7"	17' 7"	15' 2"	15' 2"	15' 2"	13' 7"	13' 7"	13' 7"	12' 4"	12' 4"	12' 4"	11' 6"	11' 6"	11' 6"	10' 9"	10' 9"	10' 9"	9' 7"	9' 7"	9' 7"
	33	16	26' 4"	26' 4"	24' 2"	15' 2"	15' 2"	15' 2"	13' 2"	13' 2"	13' 2"	11' 9"	11' 9"	11' 9"	10' 9"	10' 9"	10' 9"	10' 0"	10' 0"	10' 0"	9' 3"	9' 3"	9' 3"	8' 3"	8' 3"	8' 3"
	33	24	21' 6"	21' 6"	21' 2"	12' 4"	12' 4"	12' 4"	10' 9"	10' 9"	10' 9"	9' 7"	9' 7"	9' 7"	8' 9"	8' 9"	8' 9"	8' 1"	8' 1"	8' 1"	7' 7"	7' 7"	7' 7"	6' 9"	6' 9"	6' 9"
400S250-43	33	12	36' 4"	33' 8"	29' 4"	21' 0"	21' 0"	19' 4"	18' 2"	18' 2"	17' 7"	16' 3"	16' 3"	16' 3"	14' 10"	14' 10"	14' 10"	13' 9"	13' 9"	13' 9"	12' 10"	12' 10"	12' 10"	11' 6"	11' 6"	11' 6"
	33	16	31' 6"	30' 7"	26' 8"	18' 2"	18' 2"	17' 7"	15' 9"	15' 9"	15' 9"	14' 1"	14' 1"	14' 1"	12' 10"	12' 10"	12' 10"	11' 10"	11' 10"	11' 10"	11' 1"	11' 1"	11' 1"	10' 0"	10' 0"	10' 0"
	33	24	25' 8"	25' 8"	23' 4"	14' 10"	14' 10"	14' 10"	12' 10"	12' 10"	12' 10"	11' 6"	11' 6"	11' 6"	10' 6"	10' 6"	10' 6"	9' 8"	9' 8"	9' 8"	9' 1"	9' 1"	9' 1"	8' 1"	8' 1"	8' 1"
400S250-54	50	12	41' 8"	33' 3"	29' 1"	24' 1"	22' 8"	19' 1"	20' 10"	20' 7"	17' 4"	18' 8"	18' 8"	16' 1"	17' 0"	17' 0"	15' 2"	15' 9"	15' 9"	14' 4"	14' 9"	14' 9"	13' 9"	13' 2"	13' 2"	12' 9"
	50	16	36' 1"	30' 2"	26' 4"	20' 10"	20' 7"	17' 4"	18' 1"	18' 1"	15' 9"	16' 2"	16' 2"	14' 8"	14' 9"	14' 9"	13' 8"	13' 8"	13' 8"	13' 1"	12' 9"	12' 9"	12' 6"	11' 4"	11' 4"	11' 4"
	50	24	29' 6"	26' 4"	23' 1"	17' 0"	17' 0"	15' 2"	14' 9"	14' 9"	13' 9"	13' 2"	13' 2"	12' 9"	12' 9"	12' 9"	12' 0"	11' 2"	11' 2"	11' 2"	10' 4"	10' 4"	10' 4"	9' 3"	9' 3"	9' 3"
400S250-68	50	12	45' 4"	36' 0"	31' 6"	27' 8"	24' 7"	20' 8"	24' 0"	22' 3"	18' 9"	21' 4"	20' 8"	17' 6"	19' 7"	19' 6"	16' 4"	18' 1"	18' 1"	15' 7"	16' 10"	16' 10"	14' 10"	15' 2"	15' 2"	13' 10"
	50	16	41' 2"	32' 8"	28' 7"	24' 0"	22' 3"	18' 9"	20' 9"	20' 3"	17' 1"	18' 7"	18' 7"	15' 10"	16' 10"	16' 10"	14' 10"	15' 8"	15' 8"	14' 2"	14' 8"	14' 8"	13' 7"	13' 1"	13' 1"	12' 7"
	50	24	33' 10"	28' 7"	25' 0"	19' 7"	19' 6"	16' 4"	16' 10"	16' 10"	14' 10"	15' 2"	15' 2"	13' 10"	13' 9"	13' 9"	13' 1"	12' 9"	12' 9"	12' 9"	12' 0"	11' 10"	11' 10"	10' 8"	10' 8"	10' 8"
400S250-97	50	12	48' 9"	38' 9"	33' 10"	30' 3"	26' 4"	22' 3"	27' 6"	24' 0"	20' 3"	24' 10"	22' 3"	18' 9"	22' 8"	21' 0"	17' 8"	21' 0"	19' 10"	16' 9"	19' 8"	19' 8"	16' 1"	17' 7"	17' 7"	14' 10"
	50	16	44' 4"	35' 2"	30' 9"	27' 6"	24' 0"	20' 3"	24' 1"	21' 9"	18' 4"	21' 6"	20' 3"	17' 1"	19' 8"	19' 1"	16' 1"	18' 2"	18' 1"	15' 3"	17' 0"	17' 0"	14' 7"	15' 2"	15' 2"	13' 7"
	50	24	38' 9"	30' 9"	26' 10"	22' 8"	21' 0"	17' 8"	19' 8"	19' 1"	16' 1"	17' 7"	17' 7"	14' 10"	16' 1"	16' 1"	14' 0"	14' 10"	14' 10"	13' 3"	13' 10"	13' 10"	12' 9"	12' 4"	12' 4"	11' 9"
400S250-118	50	12	54' 1"	43' 0"	37' 6"	33' 7"	29' 3"	24' 8"	30' 6"	26' 7"	22' 6"	28' 3"	24' 8"	20' 10"	26' 7"	23' 3"	19' 7"	25' 3"	22' 1"	18' 7"	24' 2"	21' 1"	17' 9"	22' 6"	19' 7"	16' 7"
	50	16	49' 2"	39' 0"	34' 1"	30' 6"	26' 7"	22' 6"	27' 8"	24' 2"	20' 4"	25' 8"	22' 6"	18' 10"	24' 2"	21' 1"	17' 9"	23' 0"	20' 1"	16' 10"	22' 0"	19' 2"	16' 2"	20' 0"	17' 9"	15' 0"
	50	24	43' 0"	34' 1"	29' 9"	26' 7"	23' 3"	19' 7"	24' 2"	21' 1"	17' 9"	22' 6"	19' 7"	16' 7"	21' 1"	18' 6"	15' 7"	19' 6"	17' 6"	14' 9"	17' 8"	16' 9"	14' 2"	15' 1"	15' 1"	13' 1"
600S137-33	33	12	34' 7"	34' 7"	31' 9"	20' 0"	20' 0"	20' 0"	17' 3"	17' 3"	17' 3"	15' 6"	15' 6"	15' 6"	14' 1"	14' 1"	14' 1"	13' 1"	13' 1"	13' 1"	12' 2"	12' 2"	12' 2"	10' 10"	10' 10"	10' 10"
	33	16	30' 0"	30' 0"	28' 10"	17' 3"	17' 3"	17' 3"	15' 0"	15' 0"	15' 0"	13' 4"	13' 4"	13' 4"	12' 2"	12' 2"	12' 2"	11' 3"	11' 3"	11' 3"	10' 7"	10' 7"	10' 7"	9' 6"	9' 6"	9' 6"
	33	24	24' 6"	24' 6"	24' 6"	14' 1"	14' 1"	14' 1"	12' 2"	12' 2"	12' 2"	10' 10"	10' 10"	10' 10"	10' 0"	10' 0"	10' 0"	9' 2"	9' 2"	9' 2"	8' 8"	8' 8"	8' 8"	7' 6"	7' 6"	7' 6"
600S137-43	33	12	41' 2"	38' 10"	34' 10"	23' 9"	23' 9"	23' 9"	20' 7"	20' 7"	20' 7"	18' 4"	18' 4"	18' 4"	16' 9"	16' 9"	16' 9"	15' 7"	15' 7"	15' 7"	14' 7"	14' 7"	14' 7"	13' 0"	13' 0"	13' 0"
	33	16	35' 8"	35' 8"	31' 8"	20' 7"	20' 7"	20' 7"	17' 9"	17' 9"	17' 9"	16' 0"	16' 0"	16' 0"	14' 7"	14' 7"	14' 7"	13' 6"	13' 6"							

CURTAINWALL LIMITING HEIGHTS - DOUBLE SPAN

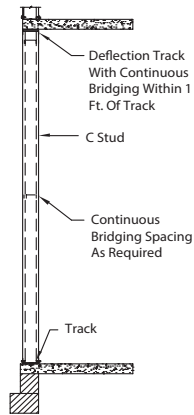
MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
			ksi	O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	
600S162-118	50	12	70" 8"	56" 1"	49" 0"	43" 9"	38" 3"	32" 3"	38" 9"	34" 9"	29" 3"	36" 10"	32" 3"	27" 2"	34" 9"	30" 4"	25" 7"	33" 0"	28" 9"	24" 3"	31" 7"	27" 7"	23" 3"	29" 3"	25" 7"	21" 7"
	50	16	64" 2"	51" 0"	44" 6"	38" 9"	34" 9"	29" 3"	36" 2"	31" 7"	26" 7"	33" 7"	29" 3"	24" 8"	31" 7"	27" 7"	23" 3"	30" 0"	26" 2"	22" 1"	28" 8"	25" 1"	21" 1"	26" 3"	23" 3"	19" 7"
	50	24	56" 1"	44" 6"	38" 10"	34" 9"	30" 4"	25" 7"	31" 7"	27" 7"	23" 3"	29" 3"	25" 7"	21" 7"	27" 7"	24" 1"	20" 3"	25" 7"	22" 10"	19" 3"	24" 0"	21" 10"	18" 6"	21" 4"	20" 3"	17" 1"
600S200-33	33	12	40" 6"	40" 1"	35" 1"	23" 4"	23" 4"	23" 1"	20" 2"	20" 2"	20" 2"	18" 1"	18" 1"	18" 1"	16" 6"	16" 6"	16" 6"	15" 3"	15" 3"	15" 3"	14" 3"	14" 3"	14" 3"	12" 9"	12" 9"	12" 9"
	33	16	35" 0"	35" 0"	31" 10"	20" 2"	20" 2"	20" 2"	17" 6"	17" 6"	17" 6"	15" 8"	15" 8"	15" 8"	14" 3"	14" 3"	14" 3"	13" 2"	13" 2"	13" 2"	12" 4"	12" 4"	12" 4"	10" 10"	10" 10"	10" 10"
	33	24	28" 7"	28" 7"	27" 9"	16" 6"	16" 6"	16" 6"	14" 3"	14" 3"	14" 3"	12" 9"	12" 9"	12" 9"	11" 8"	11" 8"	11" 8"	10" 7"	10" 7"	10" 7"	9" 7"	9" 7"	9" 7"	8" 2"	8" 2"	8" 2"
600S200-43	33	12	47" 10"	43" 9"	38" 2"	27" 8"	27" 8"	25" 2"	24" 0"	24" 0"	22" 10"	21" 4"	21" 4"	21" 2"	19" 7"	19" 7"	19" 7"	18" 1"	18" 1"	18" 1"	17" 0"	17" 0"	17" 0"	15" 2"	15" 2"	15" 2"
	33	16	41" 6"	39" 8"	34" 8"	24" 0"	24" 0"	22" 10"	20" 9"	20" 9"	20" 9"	18" 7"	18" 7"	18" 7"	17" 0"	17" 0"	17" 0"	15" 8"	15" 8"	15" 8"	14" 8"	14" 8"	14" 8"	13" 1"	13" 1"	13" 1"
	33	24	33" 10"	33" 10"	30" 3"	19" 7"	19" 7"	19" 7"	17" 0"	17" 0"	17" 0"	15" 2"	15" 2"	15" 2"	13" 9"	13" 9"	13" 9"	12" 9"	12" 9"	12" 9"	12" 0"	12" 0"	12" 0"	10" 8"	10" 8"	10" 8"
600S200-43	50	12	55" 1"	43" 9"	38" 2"	32" 9"	29" 9"	25" 2"	28" 4"	27" 1"	22" 10"	25" 4"	25" 2"	21" 2"	23" 2"	23" 2"	20" 0"	21" 6"	21" 6"	19" 0"	20" 1"	20" 1"	18" 2"	18" 0"	18" 0"	16" 10"
	50	16	49" 2"	39" 8"	34" 8"	28" 4"	27" 1"	22" 10"	24" 7"	24" 7"	20" 9"	22" 0"	22" 0"	19" 3"	20" 1"	20" 1"	18" 2"	18" 7"	18" 7"	17" 2"	17" 4"	17" 4"	16" 6"	15" 6"	15" 6"	15" 3"
	50	24	40" 1"	34" 8"	30" 3"	23" 2"	23" 2"	20" 0"	20" 1"	20" 1"	18" 2"	18" 0"	18" 0"	16" 10"	16" 10"	16" 10"	15" 10"	15" 2"	15" 2"	15" 2"	14" 2"	14" 2"	14" 2"	12" 8"	12" 8"	12" 8"
600S200-54	50	12	59" 2"	47" 0"	41" 0"	36" 8"	32" 0"	27" 0"	31" 9"	29" 1"	24" 7"	28" 6"	27" 0"	22" 9"	26" 0"	25" 4"	21" 4"	24" 1"	24" 1"	20" 4"	22" 6"	22" 6"	19" 6"	20" 1"	20" 1"	18" 1"
	50	16	53" 9"	42" 8"	37" 3"	31" 9"	29" 1"	24" 7"	27" 7"	26" 4"	22" 3"	24" 8"	24" 7"	20" 8"	22" 6"	22" 6"	19" 6"	20" 9"	20" 9"	18" 6"	19" 6"	19" 6"	17" 8"	17" 4"	17" 4"	16" 4"
	50	24	45" 0"	37" 3"	32" 7"	26" 0"	25" 4"	21" 4"	22" 6"	22" 6"	19" 6"	20" 1"	20" 1"	18" 1"	18" 4"	18" 4"	17" 0"	17" 0"	17" 0"	16" 2"	15" 10"	15" 10"	15" 6"	14" 2"	14" 2"	14" 2"
600S200-68	50	12	63" 6"	50" 4"	44" 0"	39" 4"	34" 4"	29" 0"	35" 9"	31" 2"	26" 3"	33" 2"	29" 0"	24" 6"	31" 2"	27" 3"	23" 0"	28" 10"	25" 10"	21" 10"	27" 0"	24" 9"	20" 1"	24" 1"	23" 0"	19" 4"
	50	16	57" 8"	45" 9"	40" 0"	35" 9"	31" 2"	26" 3"	32" 6"	28" 4"	23" 10"	29" 7"	26" 3"	22" 2"	27" 0"	24" 9"	20" 10"	25" 0"	23" 7"	19" 10"	23" 4"	22" 6"	19" 0"	20" 10"	20" 10"	17" 7"
	50	24	50" 4"	40" 0"	34" 10"	31" 2"	27" 3"	23" 0"	27" 0"	24" 9"	20" 10"	24" 1"	23" 0"	19" 4"	22" 0"	21" 8"	18" 3"	20" 4"	20" 4"	17" 4"	19" 1"	19" 1"	16" 7"	17" 1"	17" 1"	15" 4"
600S200-97	50	12	70" 6"	56" 0"	48" 10"	43" 8"	38" 2"	32" 2"	38" 8"	34" 8"	29" 3"	36" 10"	32" 2"	27" 2"	34" 8"	30" 3"	25" 7"	32" 10"	28" 9"	24" 3"	31" 6"	27" 6"	23" 2"	29" 3"	25" 7"	21" 7"
	50	16	64" 1"	50" 9"	44" 4"	39" 8"	34" 8"	29" 3"	36" 1"	31" 6"	26" 7"	33" 6"	29" 3"	24" 8"	31" 6"	27" 6"	23" 2"	29" 10"	26" 1"	22" 1"	28" 4"	25" 0"	21" 1"	26" 4"	23" 2"	19" 7"
	50	24	56" 0"	44" 4"	38" 9"	34" 8"	30" 3"	25" 7"	31" 6"	27" 6"	23" 2"	29" 3"	25" 7"	21" 7"	26" 9"	24" 0"	20" 3"	24" 9"	22" 9"	19" 3"	23" 2"	21" 9"	18" 4"	20" 8"	20" 3"	17" 1"
600S200-118	50	12	74" 7"	59" 2"	51" 8"	46" 2"	40" 4"	34" 1"	42" 0"	36" 8"	30" 10"	39" 0"	34" 1"	28" 8"	36" 8"	32" 0"	27" 0"	34" 9"	30" 4"	25" 8"	33" 3"	29" 1"	24" 7"	30" 10"	27" 0"	22" 9"
	50	16	67" 9"	53" 9"	47" 0"	42" 0"	36" 8"	30" 10"	38" 2"	33" 3"	28" 1"	35" 4"	30" 10"	26" 1"	33" 3"	29" 1"	24" 7"	31" 8"	27" 8"	23" 3"	30" 3"	26" 6"	22" 3"	28" 0"	24" 7"	20" 8"
	50	24	59" 2"	47" 0"	41" 0"	36" 8"	32" 0"	27" 0"	33" 3"	29" 1"	24" 7"	30" 10"	27" 0"	22" 9"	29" 1"	25" 4"	21" 6"	27" 3"	24" 2"	20" 4"	25" 7"	23" 1"	19" 6"	22" 10"	21" 6"	18" 1"
600S250-43	33	12	49" 2"	45" 9"	40" 0"	28" 4"	28" 4"	26" 4"	24" 7"	24" 7"	24" 0"	22" 0"	22" 0"	22" 0"	20" 1"	20" 1"	20" 1"	18" 7"	18" 7"	18" 7"	17" 4"	17" 4"	17" 4"	15" 7"	15" 7"	15" 7"
	33	16	42" 7"	41" 7"	36" 4"	24" 7"	24" 7"	24" 0"	21" 3"	21" 3"	19" 0"	19" 0"	19" 0"	17" 4"	17" 4"	17" 4"	16" 1"	16" 1"	16" 1"	15" 1"	15" 1"	15" 1"	15" 1"	13" 6"	13" 6"	13" 6"
	33	24	34" 9"	34" 9"	31" 9"	20" 1"	20" 1"	20" 1"	17" 4"	17" 4"	17" 4"	15" 7"	15" 7"	15" 7"	14" 2"	14" 2"	14" 2"	13" 1"	13" 1"	13" 1"	12" 3"	12" 3"	12" 3"	11" 0"	11" 0"	11" 0"
600S250-43	50	12	57" 1"	45" 3"	39" 7"	33" 0"	30" 10"	26" 1"	28" 7"	28" 1"	23" 8"	25" 7"	25" 7"	22" 0"	23" 3"	23" 3"	20" 8"	21" 7"	21" 7"	19" 8"	20" 2"	20" 2"	18" 9"	18" 1"	18" 1"	17" 6"
	50	16	49" 6"	41" 2"	36" 0"	28" 7"	28" 1"	23" 8"	24" 9"	24" 9"	21" 6"	22" 1"	22" 1"	20" 0"	20" 2"	20" 2"	18" 9"	18" 8"	18" 8"	17" 10"	17" 6"	17" 6"	17" 1"	15" 8"	15" 8"	15" 8"
	50	24	40" 4"	36" 0"	31" 4"	23" 3"	23" 3"	20" 8"	20" 2"	20" 2"	18" 9"	18" 1"	17" 6"	16" 6"	16" 6"	16" 4"	15" 3"	15" 3"	15" 3"	14" 3"	14" 3"	14" 3"	13" 6"	13" 6"	13" 6"	12" 9"
600S250-54	50	12	61" 9"	49" 0"	42" 9"	37" 8"	33" 4"	28" 2"	32" 8"	30" 4"	25" 7"	29" 2"	28" 2"	23" 9"	26" 8"	26" 6"	22" 4"	24" 8"	24" 8"	21" 3"	23" 1"	23" 1"	20" 3"	20" 8"	20" 8"	18" 10"
	50	16	56" 1"	44" 6"	38" 10"	32" 8"	30" 4"	25" 7"	28" 3"	27" 7"	23" 3"	25" 3"	25" 3"	21" 7"	23" 1"	23" 1"	20" 3"	21" 4"	21" 4"	19" 3"	20" 0"	20" 0"	18" 6"	17" 10"	17" 10"	17" 2"
	50	24	46" 2"	38" 10"	34" 0"	26" 8"	26" 6"	22" 4"	23" 1"	23" 1"	20" 3"	20" 8"	20" 8"	18" 10"	18" 10"	18" 10"	17" 9"	17" 6"	17" 6"	16" 10"	16" 3"	16" 3"	16" 1"	14" 7"	14" 7"	14" 7"
600S250-68	50	12	66" 7"	52" 9"	46" 2"	41" 3"	36" 0"	30" 4"	37" 2"	32" 9"	27" 7"	33" 3"	30" 4"	25" 7"	30" 4"	28" 7"	24" 1"	28" 1"	27" 2"	22" 10"	26" 3"	26" 0"	21" 10"	23" 6"	23" 6"	20" 4"
	50	16	60" 6"	48" 0"	41" 10"	37" 2"	32" 9"	27" 7"	32" 2"	29" 9"	25" 1"	29" 7"	27" 7"	23" 3"	26" 3"	26" 3"	21" 10"	24" 3"	24" 3"	20" 9"	22" 9"	22" 9"	19" 10"	20" 4"	20" 4"	18" 6"
	50	24	52" 7"	41" 10"	36" 7"	30" 4"	28" 7"	24" 1"	26" 3"	26" 0"	21" 10"	23" 6"	23" 6"	20" 4"	21" 6"	21" 6"	19" 2"	19" 10"	19" 10"	18" 2"	18" 7"	18" 7"	17" 4"	16" 7"	16" 7"	16" 2"
600S250-97	50	12	74" 0"	58" 9"	51" 3"	45" 10"	40" 1"	33" 9"	41" 8"	36" 4"	30" 8"	38" 8"	33" 9"	28" 6"	36" 4"	31" 9"	26" 9"	34" 7"	30" 2"	25" 6"	33" 1"	28" 10"	24" 4"	30" 4"	26" 9"	22" 7"
	50	16	67" 3"	53" 4"	46" 7"	41" 8"	36" 4"	30" 8"	37" 10"	33" 1"	27" 10"	35" 2"	30" 8"	25" 10"	33" 1"	28" 10"	24" 4"	31" 4"								

CURTAINWALL LIMITING HEIGHTS - DOUBLE SPAN

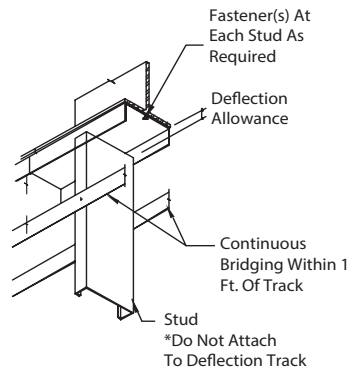
MEMBER	F _y	SPACING	5 psf			15 psf			20 psf			25 psf			30 psf			35 psf			40 psf			50 psf		
		ksi	O.C.(in.)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600		
800S137-97	50	12	81' 3"	64' 6"	56' 3"	50' 4"	44' 0"	37' 1"	45' 9"	40' 0"	33' 8"	41' 4"	37' 1"	31' 3"	37' 9"	34' 10"	29' 6"	35' 0"	33' 2"	28' 0"	32' 8"	31' 8"	26' 9"	29' 3"	29' 3"	24' 9"
	50	16	73' 9"	58' 7"	51' 2"	45' 9"	40' 0"	33' 8"	40' 1"	36' 3"	30' 7"	35' 10"	33' 8"	28' 4"	32' 8"	31' 8"	26' 9"	30' 3"	30' 1"	25' 4"	28' 4"	24' 3"	25' 4"	25' 4"	22' 7"	
	50	24	64' 6"	51' 2"	44' 8"	37' 9"	34' 10"	29' 6"	32' 8"	26' 9"	20' 9"	29' 3"	29' 3"	24' 9"	26' 8"	23' 4"	24' 9"	24' 9"	22' 2"	23' 2"	23' 2"	21' 2"	20' 8"	20' 8"	19' 8"	
800S162-33	33	12	43' 2"	43' 2"	41' 3"	25' 0"	25' 0"	25' 0"	21' 7"	21' 7"	21' 7"	19' 3"	19' 3"	19' 3"	17' 8"	17' 8"	17' 8"	15' 10"	15' 10"	15' 10"	14' 6"	14' 6"	14' 6"	12' 3"	12' 3"	12' 3"
	33	16	37' 6"	37' 6"	37' 6"	21' 7"	21' 7"	21' 7"	18' 8"	18' 8"	18' 8"	16' 4"	16' 4"	16' 4"	14' 6"	14' 6"	14' 6"	13' 0"	13' 0"	13' 0"	11' 9"	11' 9"	11' 9"	10' 0"	10' 0"	10' 0"
	33	24	30' 7"	30' 7"	30' 7"	17' 8"	17' 8"	17' 8"	14' 6"	14' 6"	14' 6"	12' 3"	12' 3"	12' 3"	10' 9"	10' 9"	10' 9"	9' 7"	9' 7"	9' 7"	8' 8"	8' 8"	8' 8"	7' 3"	7' 3"	7' 3"
800S162-43	33	12	51' 9"	51' 9"	45' 6"	29' 10"	29' 10"	29' 10"	25' 10"	25' 10"	25' 10"	23' 2"	23' 2"	23' 2"	21' 2"	21' 2"	21' 2"	19' 7"	19' 7"	19' 7"	18' 3"	18' 3"	18' 3"	16' 4"	16' 4"	16' 4"
	33	16	44' 10"	44' 10"	41' 3"	25' 10"	25' 10"	25' 10"	22' 4"	22' 4"	22' 4"	20' 1"	20' 1"	20' 1"	18' 3"	18' 3"	18' 3"	17' 0"	17' 0"	17' 0"	15' 10"	15' 10"	15' 10"	14' 2"	14' 2"	14' 2"
	33	24	36' 7"	36' 7"	36' 1"	21' 2"	21' 2"	21' 2"	18' 3"	18' 3"	18' 3"	16' 4"	16' 4"	16' 4"	15' 0"	15' 0"	15' 0"	13' 9"	13' 9"	13' 9"	13' 0"	13' 0"	13' 0"	11' 7"	11' 7"	11' 7"
800S162-43	50	12	58' 9"	51' 8"	45' 1"	33' 10"	33' 10"	29' 8"	29' 4"	29' 4"	27' 0"	26' 3"	26' 3"	25' 1"	24' 0"	24' 0"	23' 7"	22' 2"	22' 2"	22' 2"	20' 9"	20' 9"	20' 9"	18' 7"	18' 7"	18' 7"
	50	16	50' 10"	46' 10"	41' 0"	29' 4"	29' 4"	25' 6"	25' 6"	24' 6"	22' 9"	22' 9"	22' 9"	20' 9"	20' 9"	20' 9"	19' 2"	19' 2"	19' 2"	18' 0"	18' 0"	18' 0"	16' 1"	16' 1"	16' 1"	
	50	24	41' 7"	41' 0"	35' 9"	24' 0"	24' 0"	23' 7"	20' 9"	20' 9"	20' 9"	18' 7"	18' 7"	18' 7"	17' 0"	17' 0"	17' 0"	15' 8"	15' 8"	15' 8"	14' 8"	14' 8"	14' 8"	12' 7"	12' 7"	12' 7"
800S162-54	50	12	70' 0"	55' 10"	48' 10"	40' 4"	38' 2"	32' 2"	35' 0"	34' 8"	29' 2"	31' 3"	31' 3"	27' 2"	28' 7"	28' 7"	25' 7"	26' 6"	26' 6"	24' 3"	24' 9"	24' 9"	23' 2"	22' 1"	22' 1"	21' 7"
	50	16	60' 8"	50' 9"	44' 4"	35' 0"	34' 8"	29' 2"	30' 3"	30' 3"	26' 7"	27' 1"	27' 1"	24' 8"	24' 9"	24' 9"	23' 2"	22' 10"	22' 10"	22' 1"	21' 4"	21' 4"	21' 1"	19' 2"	19' 2"	19' 2"
	50	24	48' 6"	44' 4"	38' 9"	28' 7"	28' 7"	25' 7"	24' 9"	24' 9"	23' 2"	22' 1"	22' 1"	21' 7"	20' 2"	20' 2"	20' 2"	18' 8"	18' 8"	18' 8"	17' 6"	17' 6"	17' 6"	15' 8"	15' 8"	15' 8"
800S162-68	50	12	76' 2"	60' 6"	52' 9"	47' 0"	41' 3"	34' 9"	40' 8"	37' 6"	31' 7"	36' 4"	34' 9"	29' 4"	33' 3"	32' 9"	27' 7"	30' 9"	30' 9"	26' 2"	28' 9"	28' 9"	25' 1"	25' 9"	25' 9"	23' 3"
	50	16	68' 2"	55' 0"	48' 0"	40' 8"	37' 6"	31' 7"	35' 3"	34' 1"	28' 8"	31' 7"	31' 7"	26' 8"	28' 9"	28' 9"	25' 1"	26' 8"	26' 8"	23' 9"	25' 0"	25' 0"	22' 9"	22' 3"	22' 3"	21' 2"
	50	24	57' 7"	48' 0"	41' 10"	33' 3"	32' 9"	27' 7"	28' 9"	28' 9"	25' 1"	25' 9"	25' 9"	23' 3"	23' 6"	23' 6"	21' 10"	21' 9"	21' 9"	20' 9"	20' 4"	20' 4"	19' 10"	18' 2"	18' 2"	18' 2"
800S162-97	50	12	84' 7"	67' 2"	58' 8"	52' 6"	45' 9"	38' 8"	47' 8"	47' 8"	35' 1"	44' 0"	38' 8"	32' 7"	34' 2"	36' 4"	30' 8"	37' 2"	34' 7"	29' 1"	34' 9"	33' 0"	27' 10"	31' 1"	30' 8"	25' 10"
	50	16	76' 10"	61' 0"	53' 3"	47' 8"	41' 7"	35' 1"	42' 7"	37' 9"	31' 10"	38' 1"	35' 1"	29' 7"	34' 9"	33' 0"	27' 10"	32' 2"	31' 4"	26' 6"	30' 1"	30' 0"	25' 3"	27' 0"	27' 0"	23' 6"
	50	24	67' 2"	53' 3"	46' 7"	40' 2"	36' 4"	30' 8"	34' 9"	33' 0"	27' 10"	31' 1"	30' 8"	25' 10"	28' 4"	28' 4"	24' 4"	26' 3"	26' 3"	23' 1"	24' 7"	24' 7"	22' 1"	22' 0"	22' 0"	20' 6"
800S162-118	50	12	89' 7"	71' 1"	62' 1"	55' 6"	48' 6"	40' 10"	50' 4"	44' 1"	33' 2"	46' 9"	40' 10"	34' 6"	44' 1"	38' 6"	32' 6"	41' 9"	36' 7"	30' 9"	40' 0"	35' 0"	29' 6"	32' 6"	32' 6"	27' 4"
	50	16	81' 4"	64' 7"	56' 4"	50' 4"	44' 1"	37' 2"	45' 9"	40' 0"	33' 9"	42' 6"	37' 2"	31' 3"	40' 0"	35' 0"	29' 6"	33' 0"	33' 2"	28' 0"	33' 9"	33' 9"	26' 9"	32' 4"	32' 4"	24' 10"
	50	24	71' 1"	56' 4"	49' 3"	44' 1"	38' 6"	32' 6"	40' 0"	35' 0"	29' 6"	37' 2"	32' 6"	27' 4"	34' 2"	30' 6"	25' 9"	31' 8"	29' 0"	24' 6"	29' 7"	27' 9"	23' 4"	26' 6"	26' 6"	21' 8"
800S200-43	33	12	58' 4"	54' 10"	48' 0"	33' 8"	33' 8"	31' 7"	29' 2"	29' 2"	28' 8"	26' 1"	26' 1"	26' 1"	23' 9"	23' 9"	23' 9"	22' 1"	22' 1"	22' 1"	20' 7"	20' 7"	20' 7"	18' 6"	18' 6"	18' 6"
	33	16	50' 6"	49' 10"	43' 7"	29' 2"	29' 2"	28' 8"	25' 3"	25' 3"	25' 3"	22' 7"	22' 7"	22' 7"	20' 7"	20' 7"	20' 7"	19' 1"	19' 1"	19' 1"	17' 10"	17' 10"	17' 10"	16' 0"	16' 0"	16' 0"
	33	24	41' 3"	41' 3"	38' 1"	23' 9"	23' 9"	23' 9"	20' 7"	20' 7"	20' 7"	18' 6"	18' 6"	18' 6"	16' 9"	16' 9"	16' 9"	15' 7"	15' 7"	15' 7"	14' 7"	14' 7"	14' 7"	12' 6"	12' 6"	12' 6"
800S200-43	50	12	65' 2"	54' 10"	48' 0"	37' 8"	37' 6"	31' 7"	32' 7"	32' 7"	28' 8"	29' 2"	29' 2"	26' 7"	26' 7"	26' 7"	25' 1"	24' 8"	24' 8"	23' 9"	23' 1"	23' 1"	22' 9"	20' 7"	20' 7"	20' 7"
	50	16	56' 6"	49' 10"	43' 7"	32' 7"	32' 7"	28' 8"	28' 2"	28' 2"	26' 1"	25' 3"	25' 3"	24' 2"	23' 1"	23' 1"	22' 9"	21' 3"	21' 3"	20' 0"	20' 0"	20' 0"	17' 9"	17' 9"	17' 9"	
	50	24	46' 1"	43' 7"	38' 1"	26' 7"	26' 7"	25' 1"	23' 1"	23' 1"	22' 9"	20' 7"	20' 7"	18' 9"	18' 9"	18' 9"	17' 2"	17' 2"	17' 2"	15' 8"	15' 8"	15' 8"	13' 4"	13' 4"	13' 4"	
800S200-54	50	12	74' 3"	59' 0"	51' 6"	44' 8"	40' 2"	33' 10"	38' 8"	36' 7"	30' 9"	34' 7"	33' 10"	28' 7"	31' 7"	31' 7"	26' 10"	29' 2"	29' 2"	25' 7"	32' 3"	32' 3"	24' 6"	24' 6"	24' 6"	22' 8"
	50	16	67' 0"	53' 7"	46' 9"	38' 8"	36' 7"	30' 9"	33' 6"	33' 2"	28' 0"	30' 0"	30' 0"	26' 0"	27' 3"	27' 3"	24' 6"	25' 3"	25' 3"	23' 2"	23' 8"	23' 8"	22' 2"	21' 2"	21' 2"	20' 7"
	50	24	54' 8"	46' 9"	40' 10"	31' 7"	31' 7"	26' 10"	27' 3"	27' 3"	24' 6"	24' 6"	24' 6"	22' 8"	22' 3"	22' 3"	21' 4"	20' 8"	20' 8"	20' 3"	19' 3"	19' 3"	19' 3"	17' 3"	17' 3"	17' 3"
800S200-68	50	12	79' 9"	63' 3"	55' 3"	49' 6"	43' 2"	36' 4"	44' 10"	39' 3"	33' 1"	41' 8"	36' 4"	30' 8"	34' 3"	34' 3"	28' 10"	35' 2"	32' 7"	27' 6"	33' 0"	31' 2"	26' 3"	28' 10"	28' 10"	24' 4"
	50	16	72' 6"	56' 6"	50' 3"	44' 10"	39' 3"	33' 1"	40' 4"	35' 8"	30' 1"	38' 1"	33' 1"	27' 10"	33' 0"	31' 2"	26' 3"	30' 6"	29' 7"	25' 0"	28' 6"	28' 6"	23' 10"	25' 6"	25' 6"	22' 2"
	50	24	63' 3"	50' 3"	43' 10"	38' 1"	34' 3"	28' 10"	33' 0"	31' 2"	26' 3"	29' 6"	28' 10"	24' 4"	26' 10"	26' 10"	23' 0"	24' 10"	24' 10"	21' 9"	23' 3"	23' 3"	20' 10"	20' 9"	20' 9"	19' 4"
800S200-97	50	12	88' 9"	70' 6"	61' 6"	55' 0"	48' 1"	40' 6"	50' 0"	43' 8"	36' 9"	46' 4"	40' 6"	34' 2"	43' 8"	38' 1"	32' 2"	41' 6"	36' 2"							

CURTAINWALL ILLUSTRATIONS

INFILL WALL APPLICATION

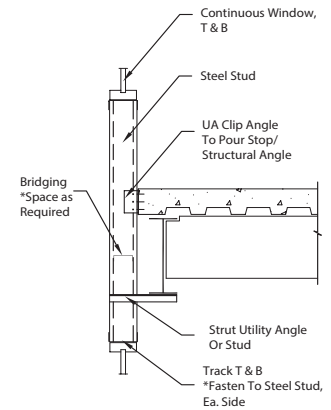


INFILL STUD



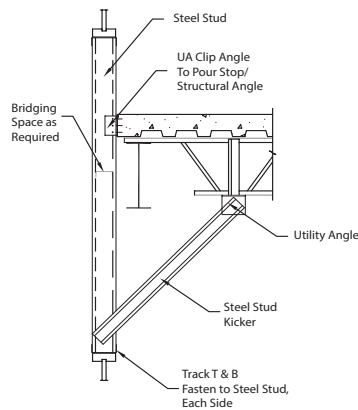
DEFLECTION TRACK

SPANDREL APPLICATION



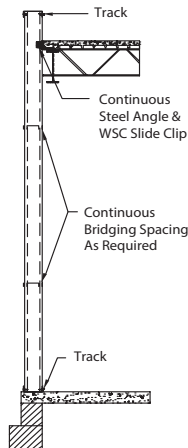
STRUT TO BEAM

SPANDREL APPLICATION



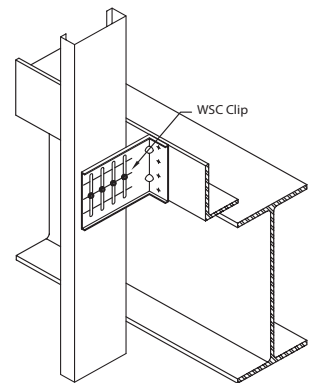
DIAGONAL KICKER

BY-PASS WALL APPLICATION



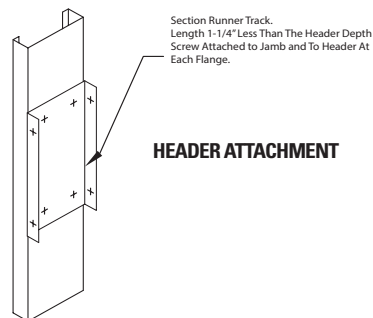
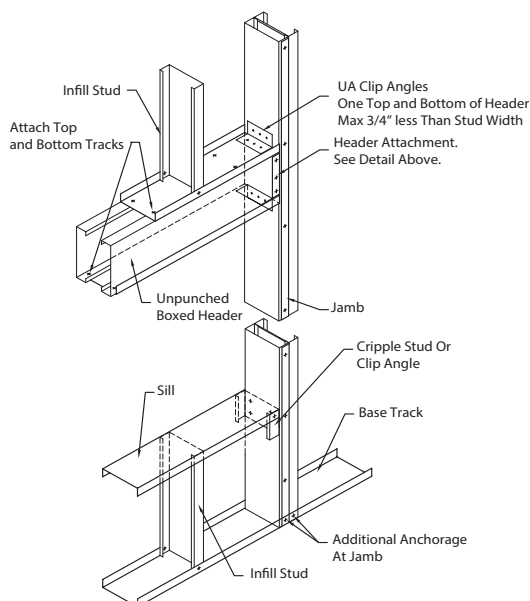
BY-PASS WALL

CURTAINWALL STUD



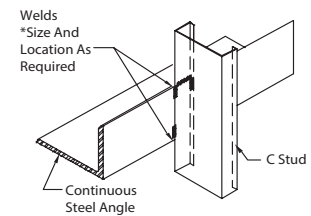
WSC SIDE CLIP

WINDOW OPENING DETAILS

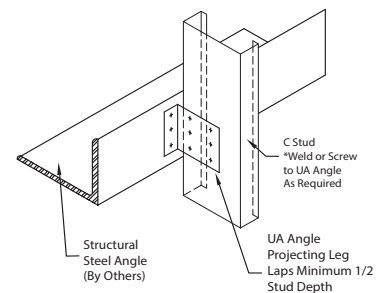


HEADER ATTACHMENT

GRAVITY/LATERAL ATTACHMENT ALTERNATIVES



DIRECT TO STEEL ANGLE



UA ANGLE TO STEEL ANGLE

NOTES:

ISOMETRIC APPLICATION

1. Size, spacing and anchorage of framing components shall be qualified by design.
2. Vertical deflection of the primary frame shall be accommodated in the window head.

DIAGONAL CROSS-BRACING

DIAGONAL RACKING BRACING

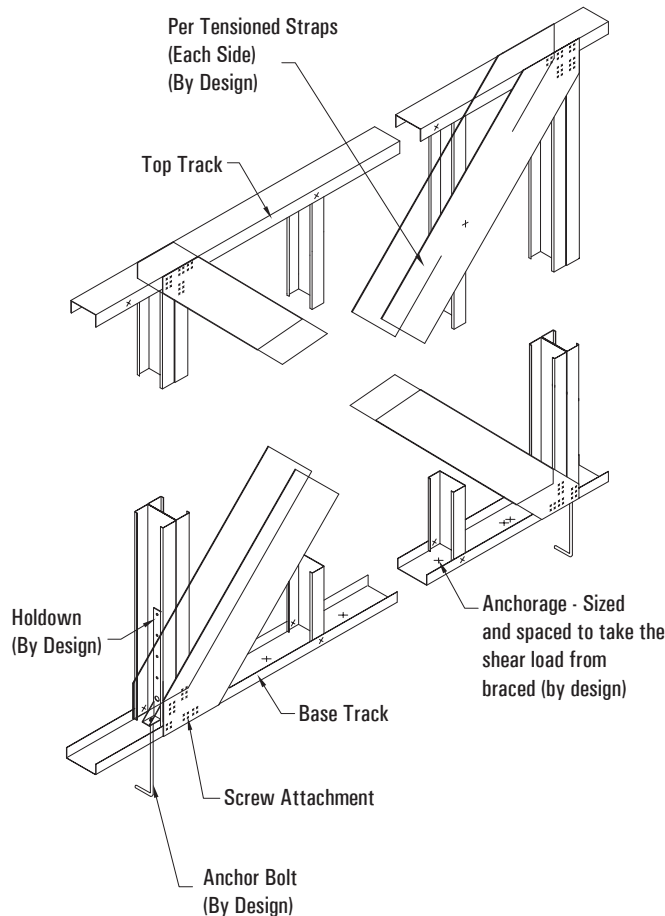
Diagonal bracing and connections must be designed for the specific conditions of a building. For allowable load capacities of Marino\WARE members and assistance in developing connections, please contact Marino\WARE's Technical Services Department. Buildings must be properly braced to resist racking under wind and seismic loads. In steel-framed construction, diagonal strap bracing offers an economical and effective means to provide this resistance. Straps are sloped to resist racking forces in tension. They are installed over framing members and easily covered with facing materials. Diagonal strap ends are secured by screws or welded to transfer the tension loads to the wall framing and floor assembly. End connections must be designed to transfer accumulated design loads. At the foundation, floor anchors must be adequate to prevent uplift and horizontal shear. Splicing of strapping is not recommended.

DIAGONAL CROSS-BRACING

For selection fo Flat Strap (FS) subjected to tension loads in shear wall assemblies or miscellaneous applications.

USE:

Select a flat strap which provides an allowable tensile capacity equal to or greater than the applied tension load.



CROSS BRACING: ALLOWABLE TENSION CAPACITY BASED ON SINGLE STRAP		
Flat Strap Bracing (thickness)	Area (in ²)	P _a Without 1/3 increase
2" x 20ga (33mil)	0.0692	1.37
2" x 18ga (43 mil)	0.0902	1.78
4" x 18ga (43 mil)	0.1804	3.57
2" x 16ga(54 mil)	0.1132	3.39
4" x 16ga(54 mil)	0.2264	6.79
2" x 14ga(68 mil)	0.1426	4.28
4" x 14ga(68 mil)	0.2852	8.56

NOTES:

1. Strap end connections shall be designed to transfer the tensile load.
2. 16 and 14 gauge strap: F_y (min) = 50 ksi
20 and 18 gauge strap: F_y (min) = 33 ksi

COMBINED AXIAL AND LATERAL LOADS

NOTES:

1. Allowable axial loads listed are based on simple one span condition and are given in kips (1 kip = 1,000 lb).
2. Allowable axial loads are determined based on Section C5 of AISI S100 with the assumption that the axial load passes through the centroid of the effective section.
3. Allowable axial loads based on 4'-0" on center bracing.
4. Studs are assumed to be adequately braced at a maximum spacing of L_u to develop the full allowable moment, M_a .
5. Listed wind pressures represent the calculated design wind pressure (1.0W based on 2009 IBC or 0.6W based on 2012 IBC). For deflection calculations, the listed wind pressures have been reduced by 0.70 as per IBC. The 5 psf pressure has not been reduced for deflection checks.
6. End supports have not been checked for web crippling.
7. If no note, deflection meets L/720
8. ¹ Deflection meets L/120
9. ² Deflection meets L/240
10. ³ Deflection meets L/360
11. ⁴ Deflection meets L/600
12. See General Notes on Page 6.

5 psf Lateral Load

3 5/8" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.49	2.14	3.32	4.37	1.87	2.65	4.15	5.38	2.24	3.28	5.18	6.68	2.43	3.72	5.82	7.76
	16	1.42	2.07	3.26	4.30	1.80	2.57	4.08	5.31	2.15	3.20	5.10	6.60	2.35	3.63	5.73	7.67
	24	1.28	1.93	3.13	4.17	1.65	2.42	3.94	5.17	1.99	3.03	4.94	6.45	2.19	3.46	5.56	7.50
9	12	1.38	2.01	3.11	4.07	1.74	2.48	3.86	4.99	2.09	3.07	4.79	6.17	2.28	3.52	5.46	7.17
	16	1.29	1.92	3.02	3.99	1.64	2.38	3.77	4.90	1.98	2.97	4.69	6.07	2.18	3.41	5.35	7.06
	24	1.13	1.74	2.87	3.82	1.46	2.19	3.60	4.72	1.78	2.76	4.49	5.88	1.98	3.19	5.14	6.85
10	12	1.26	1.85	2.85	3.73	1.58	2.29	3.53	4.55	1.92	2.84	4.37	5.61	2.11	3.30	5.08	6.53
	16	1.16	1.74	2.75	3.63	1.47	2.17	3.42	4.44	1.79	2.71	4.25	5.49	1.99	3.16	4.95	6.40
	24	0.96	1.54	2.57	3.44	1.26	1.95	3.22	4.23	1.56	2.47	4.01	5.27	1.75	2.89	4.69	6.15
12	12	0.99	1.51	2.27	2.97	1.26	1.87	2.79	3.60	1.55	2.33	3.45	4.44	1.74	2.74	4.06	5.21
	16	0.86 ⁴	1.37	2.15	2.85	1.12	1.72	2.66	3.47	1.39	2.16	3.30	4.30	1.57	2.55	3.90	5.05
	24	0.63 ³	1.12 ³	1.93 ⁴	2.62	0.87 ³	1.44 ⁴	2.42	3.22	1.11 ³	1.86	3.03	4.03	1.28 ⁴	2.22	3.59	4.74
14	12	0.73 ³	1.15 ⁴	1.75	2.30	0.93 ⁴	1.44	2.14	2.78	1.17	1.82	2.64	3.43	1.36	2.15	3.12	4.05
	16	0.59 ³	1.00 ³	1.62 ⁴	2.16	0.78 ³	1.28	2.00	2.64	1.00 ³	1.63 ⁴	2.48	3.27	1.17 ⁴	1.95	2.94	3.87
	24	0.34 ²	0.73 ²	1.39 ³	1.92 ³	0.52 ²	0.99 ³	1.75 ³	2.38 ⁴	0.70 ³	1.31 ³	2.19 ³	2.99	0.85 ³	1.59 ³	2.62 ⁴	3.54
16	12	0.50 ³	0.84 ³	1.33 ³	1.76 ⁴	0.66 ³	1.06 ³	1.63 ⁴	2.14	0.84 ³	1.36 ⁴	2.01	2.66	1.01 ³	1.63	2.40	3.15
	16	0.36 ²	0.68 ²	1.20 ³	1.63 ³	0.51 ²	0.90 ³	1.49 ³	2.00 ⁴	0.67 ³	1.18 ³	1.86 ³	2.50	0.82 ³	1.42 ³	2.22 ⁴	2.96
	24	0.12 ¹	0.42 ¹	0.97 ²	1.38 ²	0.25 ¹	0.62 ²	1.25 ²	1.74 ³	0.37 ²	0.86 ²	1.58 ³	2.21 ³	0.49 ²	1.06 ³	1.90 ³	2.64 ³

15 psf Lateral Load

3 5/8" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.09	1.72	2.95	3.98	1.44	2.20	3.74	4.96	1.76	2.79	4.71	6.22	1.95	3.20	5.32	7.25
	16	0.91	1.53	2.77	3.79	1.24	1.99	3.55	4.76	1.54	2.57	4.49	6.00	1.73	2.95	5.08	7.01
	24	0.56 ⁴	1.16	2.43	3.44	0.86	1.59	3.17	4.38	1.11	2.13	4.06	5.58	1.30	2.48	4.62	6.53
9	12	0.90	1.49	2.64	3.59	1.21	1.93	3.35	4.47	1.50	2.47	4.21	5.60	1.69	2.87	4.84	6.54
	16	0.68	1.26	2.43	3.37	0.97	1.68	3.12	4.23	1.24	2.20	3.94	5.34	1.42	2.57	4.54	6.24
	24	0.28 ³	0.83 ⁴	2.03	2.94	0.54 ³	1.21	2.68	3.77	0.75 ⁴	1.69	3.44	4.84	0.92	2.01	4.00	5.68
10	12	0.70 ⁴	1.25	2.31	3.16	0.97	1.64	2.93	3.94	1.23	2.13	3.69	4.95	1.42	2.52	4.33	5.79
	16	0.46 ³	0.99 ⁴	2.07	2.91	0.71 ⁴	1.36	2.67	3.66	0.94	1.82	3.38	4.64	1.11	2.17	3.99	5.45
	24	0.02 ²	0.51 ³	1.62 ³	2.44 ⁴	0.24 ³	0.84 ³	2.18 ⁴	3.15	0.40 ³	1.25 ⁴	2.83	4.09	0.55 ³	1.54	3.37	4.82
12	12	0.33 ³	0.78 ³	1.63 ⁴	2.30	0.54 ³	1.08 ⁴	2.10	2.88	0.73 ³	1.47	2.65	3.66	0.88 ⁴	1.77	3.17	4.32
	16	0.06 ²	0.48 ³	1.36 ³	2.02 ⁴	0.25 ²	0.76 ³	1.80 ³	2.58 ⁴	0.40 ³	1.11 ³	2.32 ⁴	3.32	0.53 ³	1.38 ⁴	2.79	3.93
	24	-	-	0.89 ²	1.51 ³	-	0.20 ²	1.29 ³	2.03 ³	-	0.49 ³	1.73 ³	2.72 ³	-	0.68 ³	2.12 ³	3.25 ⁴
14	12	0.03 ²	0.38 ²	1.08 ³	1.60 ³	0.18 ²	0.61 ³	1.42 ³	2.03 ³	0.31 ²	0.90	1.82 ³	2.61 ⁴	0.43 ³	1.12 ³	2.19 ⁴	3.11
	16	-	0.09 ²	0.82 ²	1.31 ³	-	0.29 ²	1.13 ²	1.73 ³	-	0.54 ²	1.49 ³	2.28 ³	0.07 ²	0.71 ³	1.82 ³	2.72 ⁴
	24	-	-	0.35 ¹	0.82 ²	-	-	0.63 ¹	1.19 ²	-	-	0.92 ²	1.69 ²	-	0.02 ²	1.17 ²	2.05 ³
16	12	-	0.09 ¹	0.68 ²	1.07 ²	-	0.26 ²	0.93 ²	1.41 ³	-	0.47 ²	1.22 ³	1.85 ³	0.08 ²	0.61 ²	1.49 ³	2.22 ³
	16	-	-	0.42 ¹	0.80 ²	-	-	0.66 ¹	1.12 ²	-	0.13 ¹	0.91 ²	1.53 ²	-	0.22 ²	1.13 ²	1.85 ³
	24	-	-	-	0.34 ¹	-	-	0.19 ¹	0.62 ¹	-	-	0.38 ¹	0.98 ¹	-	-	0.53 ¹	1.21 ²

COMBINED AXIAL AND LATERAL LOADS

20 psf Lateral Load

3 5/8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) O.C.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.91	1.53	2.77	3.79	1.24	1.99	3.55	4.76	1.54	2.57	4.49	6.00	1.73	2.95	5.08	7.01
	16	0.67	1.28	2.54	3.56	0.98	1.72	3.29	4.50	1.25	2.27	4.20	5.72	1.44	2.64	4.77	6.69
	24	0.24 ³	0.81 ⁴	2.11	3.10	0.50 ⁴	1.21	2.82	4.01	0.72 ⁴	1.72	3.65	5.18	0.90	2.04	4.19	6.08
9	12	0.68	1.26	2.43	3.37	0.97	1.68	3.12	4.23	1.24	2.20	3.94	5.34	1.42	2.57	4.54	6.24
	16	0.41 ³	0.97 ⁴	2.16	3.08	0.68 ⁴	1.36	2.82	3.92	0.91	1.85	3.60	5.00	1.08	2.20	4.18	5.86
	24	-	0.44 ³	1.66 ³	2.55 ⁴	0.14 ³	0.78 ³	2.27 ⁴	3.34	0.31 ³	1.22 ⁴	2.97	4.37	0.46 ³	1.50	3.49	5.15
10	12	0.46 ³	0.99 ⁴	2.07	2.91	0.71 ⁴	1.36	2.67	3.66	0.94	1.82	3.38	4.64	1.11	2.17	3.99	5.45
	16	0.16 ³	0.67 ³	1.77 ⁴	2.59	0.39 ³	1.01 ³	2.34	3.32	0.58 ³	1.43 ⁴	3.00	4.27	0.73 ⁴	1.74	3.57	5.02
	24	-	0.09 ²	1.22 ³	2.01 ³	-	0.38 ³	1.74 ³	2.69 ⁴	-	0.74 ³	2.32 ³	3.58 ⁴	0.05 ³	0.97 ³	2.81 ⁴	4.24
12	12	0.06 ²	0.48 ³	1.36 ³	2.02 ⁴	0.25 ²	0.76 ³	1.80 ³	2.58 ⁴	0.40 ³	1.11 ³	2.32 ⁴	3.32	0.53 ³	1.38 ⁴	2.79	3.93
	16	-	0.13 ²	1.04 ³	1.67 ³	-	0.38 ²	1.45 ³	2.20 ³	-	0.69 ³	1.92 ³	2.91 ⁴	0.11 ²	0.90 ³	2.33 ³	3.47 ⁴
	24	-	-	0.48 ²	1.06 ²	-	-	0.84 ²	1.55 ²	-	-	1.21 ²	2.19 ³	-	0.07 ²	1.53 ³	2.64 ³
14	12	-	0.09 ²	0.82 ²	1.31 ³	-	0.29 ²	1.13 ²	1.73 ³	-	0.54 ²	1.49 ³	2.28 ³	0.07 ²	0.71 ³	1.82 ³	2.72 ⁴
	16	-	-	0.50 ¹	0.97 ²	-	-	0.79 ²	1.36 ²	-	0.12 ²	1.10 ²	1.87 ³	-	0.23 ²	1.38 ²	2.26 ³
	24	-	-	-	0.39 ¹	-	-	0.20 ¹	0.73 ¹	-	-	0.43 ¹	1.18 ²	-	-	0.61 ¹	1.46 ²
16	12	-	-	0.42 ¹	0.80 ²	-	-	0.66 ¹	1.12 ²	-	0.13 ¹	0.91 ²	1.53 ²	-	0.22 ²	1.13 ²	1.85 ³
	16	-	-	0.13 ¹	0.49 ¹	-	-	0.34 ¹	0.77 ¹	-	-	0.54 ¹	1.15 ²	-	-	0.72 ¹	1.41 ²
	24	-	-	-	-	-	-	-	0.19 ¹	-	-	-	0.50 ¹	-	-	-	0.66 ¹

25 psf Lateral Load

3 5/8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) O.C.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.73	1.34	2.60	3.61	1.04	1.79	3.36	4.57	1.32	2.34	4.27	5.79	1.51	2.72	4.85	6.77
	16	0.45 ⁴	1.04	2.32	3.32	0.74	1.46	3.05	4.25	0.98	1.99	3.92	5.45	1.16	2.33	4.48	6.38
	24	-	0.49 ³	1.81 ⁴	2.78	0.17 ³	0.86 ⁴	2.48	3.66	0.35 ³	1.33	3.26	4.79	0.51 ⁴	1.62	3.77	5.65
9	12	0.48 ³	1.04	2.23	3.15	0.75 ⁴	1.44	2.89	3.99	0.99	1.94	3.68	5.08	1.17	2.29	4.27	5.96
	16	0.16 ³	0.70 ³	1.90 ⁴	2.81	0.40 ³	1.06 ⁴	2.54	3.62	0.60 ³	1.53	3.28	4.68	0.76 ⁴	1.84	3.82	5.50
	24	-	0.07 ³	1.32 ³	2.18 ³	-	0.39 ³	1.89 ³	2.94 ⁴	-	0.78 ³	2.54 ⁴	3.93	0.03 ³	1.02 ⁴	3.01 ⁴	4.66
10	12	0.23 ³	0.74 ³	1.84 ⁴	2.67	0.47 ³	1.09 ⁴	2.42	3.40	0.66 ³	1.53	3.10	4.36	0.82 ⁴	1.85	3.67	5.13
	16	-	0.37 ³	1.49 ³	2.29 ⁴	0.09 ³	0.68 ³	2.03 ³	2.99	0.24 ³	1.08 ³	2.65 ⁴	3.91	0.38 ³	1.35 ⁴	3.18	4.62
	24	-	-	0.85 ²	1.61 ³	-	-	1.34 ³	2.26 ³	-	0.28 ³	1.86 ³	3.10 ³	-	0.45 ³	2.28 ³	3.71 ⁴
12	12	-	0.22 ²	1.12 ³	1.75 ³	-	0.47 ³	1.54 ³	2.29 ³	0.10 ²	0.79 ³	2.01 ³	3.01 ⁴	0.21 ³	1.01 ³	2.44 ⁴	3.58
	16	-	-	0.75 ²	1.36 ³	-	0.03 ²	1.13 ²	1.86 ³	-	0.31 ²	1.55 ³	2.53 ³	-	0.47 ²	1.92 ³	3.04 ³
	24	-	-	0.10 ¹	0.66 ²	-	-	0.43 ¹	1.11 ²	-	-	0.74 ²	1.70 ²	-	-	1.00 ²	2.08 ³
14	12	-	-	0.58 ²	1.06 ²	-	-	0.87 ²	1.45 ²	-	0.22 ²	1.20 ²	1.97 ³	-	0.35 ²	1.48 ³	2.37 ³
	16	-	-	0.22 ¹	0.67 ¹	-	-	0.49 ¹	1.03 ²	-	-	0.75 ²	1.51 ²	-	-	0.98 ²	1.84 ³
	24	-	-	-	0.01 ¹	-	-	-	0.32 ¹	-	-	-	0.72 ¹	-	-	0.11 ¹	0.94 ²
16	12	-	-	0.20 ¹	0.56 ¹	-	-	0.41 ¹	0.85 ¹	-	-	0.63 ¹	1.24 ²	-	-	0.82 ¹	1.51 ²
	16	-	-	-	0.20 ¹	-	-	0.05 ¹	0.47 ¹	-	-	0.22 ¹	0.81 ¹	-	-	0.34 ¹	1.02 ²
	24	-	-	-	-	-	-	-	-	-	-	0.08 ¹	-	-	-	-	0.17 ¹

30 psf Lateral Load

3 5/8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.56 ⁴	1.16	2.43	3.44	0.86	1.59	3.17	4.38	1.11	2.13	4.06	5.58	1.30	2.48	4.62	6.53
	16	0.24 ³	0.81 ⁴	2.11	3.10	0.50 ⁴	1.21	2.82	4.01	0.72 ⁴	1.72	3.65	5.18	0.90	2.04	4.19	6.08
	24	-	0.18 ³	1.51 ³	2.47 ⁴	-	0.52 ²	2.16 ⁴	3.32	-	0.96 ⁴	2.89	4.42	0.15 ²	1.21 ⁴	3.37	5.23
9	12	0.28 ³	0.83 ⁴	2.03	2.94	0.54 ³	1.21	2.68	3.77	0.75 ⁴	1.69	3.44	4.84	0.92	2.01	4.00	5.68
	16	-	0.44 ³	1.66 ³	2.55 ⁴	0.14 ³	0.78 ³	2.27 ⁴	3.34	0.31 ³	1.22 ⁴	2.97	4.37	0.46 ³	1.50	3.49	5.15
	24	-	-	0.99 ³	1.84 ³	-	0.02 ³	1.54 ³	2.56 ³	-	0.37 ³	2.12 ³	3.51 ⁴	-	0.56 ³	2.56 ⁴	4.18
10	12	0.02 ²	0.51 ³	1.62 ³	2.44 ⁴	0.24 ³	0.84 ³	2.18 ⁴	3.15	0.40 ³	1.25 ⁴	2.83	4.09	0.55 ³	1.54	3.37	4.82
	16	-	0.09 ²	1.22 ³	2.01 ³	-	0.38 ³	1.74 ³	2.69 ⁴	-	0.74 ³	2.32 ³	3.58 ⁴	0.05 ³	0.97 ³	2.81 ⁴	4.24
	24	-	-	0.51 ²	1.25 ²	-	-	0.96 ²	1.86 ³	-	-	1.43 ³	2.66 ³	-	-	1.80 ³	3.20 ³
12	12	-	-	0.89 ²	1.51 ³	-	0.20 ²	1.29 ³	2.03 ³	-	0.49 ³	1.73 ³	2.72 ³	-	0.68 ³	2.12 ³	3.25 ⁴
	16	-	-	0.48 ²	1.06 ²	-	-	0.84 ²	1.55 ²	-	-	1.21 ²	2.19 ³	-	0.07 ²	1.53 ³	2.64 ³
	24	-	-	-	0.29 ¹	-	-	0.05 ¹	0.71 ¹	-	-	0.32 ¹	1.26 ²	-	-	0.51 ²	1.57 ²
14	12	-	-	0.35 ¹	0.82 ²	-	-	0.63 ¹	1.19 ²	-	-	0.92 ²	1.69 ²	-	0.02 ²	1.17 ²	2.05 ³
	16	-	-	-	0.39 ¹	-	-	0.20 ¹	0.73 ¹	-	-	0.43 ¹	1.18 ²	-	-	0.61 ¹	1.46 ²
	24	-	-	-	-	-	-	-	-	-	-	0.31 ¹	-	-	-	-	0.45 ¹
16	12	-	-	-	0.34 ¹	-	-	0.19 ¹	0.62 ¹	-	-	0.38 ¹	0.98 ¹	-	-	0.53 ¹	1.21 ²
	16	-	-	-	-	-	-	-	0.19 ¹	-	-	-	0.50 ¹	-	-	-	0.66 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

COMBINED AXIAL AND LATERAL LOADS

35 psf Lateral Load

3 5/8" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.40 ⁴	0.98	2.27	3.27	0.68 ⁴	1.40	2.99	4.19	0.91	1.92	3.85	5.38	1.10	2.26	4.40	6.30
	16	0.03 ³	0.59 ³	1.91 ⁴	2.88	0.28 ³	0.98 ⁴	2.59	3.77	0.47 ⁴	1.46	3.39	4.92	0.64 ⁴	1.75	3.91	5.79
	24	-	-	1.24 ³	2.17 ³	-	0.20 ³	1.85 ³	3.00 ⁴	-	0.60 ³	2.54 ⁴	4.06	-	0.82 ⁴	2.99	4.82
9	12	0.10 ³	0.63 ³	1.84 ⁴	2.74	0.34 ³	0.99 ⁴	2.47	3.55	0.52 ³	1.45	3.20	4.60	0.69 ⁴	1.75	3.74	5.41
	16	-	0.19 ³	1.43 ³	2.30 ⁴	-	0.52 ³	2.02 ³	3.07 ⁴	0.03 ³	0.92 ³	2.68 ⁴	4.07	0.17 ³	1.17 ⁴	3.17	4.82
	24	-	-	0.68 ²	1.50 ³	-	-	1.20 ³	2.20 ³	-	-	1.74 ³	3.12 ³	-	0.13 ³	2.13 ³	3.73 ⁴
10	12	-	0.30	1.42 ³	2.22 ³	0.02 ²	0.61 ³	1.96 ³	2.92 ⁴	0.16 ³	0.99 ³	2.57 ⁴	3.83	0.30 ³	1.25 ⁴	3.08	4.53
	16	-	-	0.97 ³	1.74 ³	-	0.10 ²	1.47 ³	2.40 ³	-	0.43 ³	2.01 ³	3.26 ⁴	-	0.62 ³	2.45 ³	3.88 ⁴
	24	-	-	0.19 ²	0.90 ²	-	-	0.61 ²	1.48 ²	-	-	1.02 ²	2.24 ³	-	-	1.34 ³	2.73 ³
12	12	-	-	0.68 ²	1.28 ²	-	-	1.06 ²	1.78 ³	-	0.22 ²	1.46 ³	2.44 ³	-	0.36 ³	1.82 ³	2.93 ³
	16	-	-	0.22 ¹	0.79 ²	-	-	0.56 ²	1.25 ²	-	-	0.90 ²	1.86 ²	-	-	1.17 ²	2.26 ²
	24	-	-	-	-	-	-	-	0.34 ¹	-	-	-	0.84 ¹	-	-	0.06 ¹	1.10 ²
14	12	-	-	0.15 ¹	0.60 ¹	-	-	0.41 ¹	0.96 ²	-	-	0.67 ²	1.43 ²	-	-	0.88 ²	1.75 ²
	16	-	-	-	0.13 ¹	-	-	-	0.45 ¹	-	-	0.14 ¹	0.87 ¹	-	-	0.27 ¹	1.11 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01 ¹
16	12	-	-	-	0.13 ¹	-	-	-	0.39 ¹	-	-	0.14 ¹	0.73 ¹	-	-	0.26 ¹	0.93 ¹
	16	-	-	-	-	-	-	-	-	-	-	-	0.21 ¹	-	-	-	0.33 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

40 psf Lateral Load

3 5/8" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.24 ³	0.81 ⁴	2.11	3.10	0.50 ⁴	1.21	2.82	4.01	0.72 ⁴	1.72	3.65	5.18	0.90	2.04	4.19	6.08
	16	-	0.38 ³	1.71 ⁴	2.67	0.07 ³	0.75 ³	2.37 ⁴	3.54	0.23 ³	1.20 ⁴	3.14	4.67	0.39 ³	1.48	3.64	5.50
	24	-	-	0.97 ³	1.88 ³	-	-	1.56 ³	2.68	-	0.26 ³	2.19 ³	3.72 ⁴	-	0.45 ³	2.82 ⁴	4.43
9	12	-	0.44 ³	1.66 ³	2.55 ⁴	0.14 ³	0.78 ³	2.27 ⁴	3.34	0.31 ³	1.22 ⁴	2.97	4.37	0.46 ³	1.50	3.49	5.15
	16	-	-	1.21 ³	2.07 ³	-	0.26 ³	1.77 ³	2.82	-	0.64 ³	2.40 ³	3.79	-	0.86 ³	2.86 ⁴	4.50
	24	-	-	0.39 ²	1.19 ²	-	-	0.87 ²	1.86	-	-	1.36 ³	2.73 ³	-	-	1.72 ³	3.30 ³
10	12	-	0.09 ²	1.22 ³	2.01 ³	-	0.38 ³	1.74 ³	2.69	-	0.74 ³	2.32 ³	3.58 ⁴	0.05 ³	0.97 ³	2.81 ⁴	4.24
	16	-	-	0.74 ³	1.49 ³	-	-	1.21 ³	2.12	-	0.13 ²	1.71 ³	2.95 ³	-	0.29 ³	2.12 ³	3.53 ⁴
	24	-	-	-	0.57 ²	-	-	0.27 ²	1.12	-	-	0.64 ²	1.85 ²	-	-	0.91 ²	2.27 ³
12	12	-	-	0.48 ²	1.06 ²	-	-	0.84 ²	1.55	-	-	1.21 ²	2.19 ³	-	0.07 ²	1.53 ³	2.64 ³
	16	-	-	-	0.53 ¹	-	-	0.30 ¹	0.97	-	-	0.60 ²	1.55 ²	-	-	0.83 ²	1.91 ²
	24	-	-	-	-	-	-	-	-	-	-	0.45 ¹	-	-	-	0.65 ¹	-
14	12	-	-	-	0.39 ¹	-	-	0.20 ¹	0.73	-	-	0.43 ¹	1.18 ²	-	-	0.61 ¹	1.46 ²
	16	-	-	-	-	-	-	-	0.19	-	-	-	0.58 ¹	-	-	-	0.77 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12	-	-	-	-	-	-	-	0.19	-	-	-	0.50 ¹	-	-	-	0.66 ¹
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

50 psf Lateral Load

3 5/8" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S137				362S162				362S200				362S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	-	0.49 ³	1.81 ⁴	2.78	0.17 ³	0.86 ⁴	2.48	3.66	0.35 ³	1.33	3.26	4.79	0.51 ⁴	1.62	3.77	5.65
	16	-	-	1.33 ³	2.27 ⁴	-	0.31 ³	1.95 ³	3.10 ⁴	-	0.72 ³	2.65 ⁴	4.18	-	0.95 ⁴	3.12	4.96
	24	-	-	0.46 ²	1.33 ³	-	-	0.99 ³	2.08 ³	-	-	1.54 ³	3.06 ³	-	-	1.91 ³	3.68 ⁴
9	12	-	0.07 ³	1.32 ³	2.18 ³	-	0.39 ³	1.89 ³	2.94 ⁴	-	0.78 ³	2.54 ⁴	3.93	0.03 ³	1.02 ⁴	3.01 ⁴	4.66
	16	-	-	0.78 ²	1.61 ³	-	-	1.31 ³	2.32 ³	-	0.11 ³	1.86 ³	3.25 ³	-	0.27 ³	2.27 ³	3.88 ⁴
	24	-	-	-	0.59 ²	-	-	0.27 ²	1.21 ²	-	-	0.67 ²	2.02 ³	-	-	0.95 ²	2.48 ³
10	12	-	-	0.85 ²	1.61 ³	-	-	1.34 ³	2.26 ³	-	0.28 ³	1.86 ³	3.10 ³	-	0.45 ³	2.28 ³	3.71 ⁴
	16	-	-	0.29 ²	1.01 ²	-	-	0.72 ²	1.60 ³	-	-	1.15 ²	2.38 ³	-	-	1.49 ³	2.88 ³
	24	-	-	-	-	-	-	-	0.45 ²	-	-	-	1.10 ²	-	-	0.10 ²	1.43 ²
12	12	-	-	0.10 ¹	0.66 ²	-	-	0.43 ¹	1.11 ²	-	-	0.74 ²	1.70 ²	-	-	1.00 ²	2.08 ³
	16	-	-	-	0.06 ¹	-	-	-	0.46 ¹	-	-	0.05 ¹	0.98 ²	-	-	0.20 ¹	1.25 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	12	-	-	-	0.01 ¹	-	-	-	0.32 ¹	-	-	-	0.72 ¹	-	-	0.11 ¹	0.94 ²
	16	-	-	-	-	-	-	-	-	-	-	-	0.05 ¹	-	-	-	0.15 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12	-	-	-	-	-	-	-	-	-	-	-	0.08 ¹	-	-	-	0.17 ¹
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE: See page 26 for Table Notes.

COMBINED AXIAL AND LATERAL LOADS

5 psf Lateral Load

4" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.61	2.31	3.67	4.98	2.03	2.87	4.62	6.18	2.40	3.55	5.77	7.63	2.60	3.97	6.27	8.67
	16	1.54	2.25	3.61	4.91	1.96	2.80	4.55	6.11	2.32	3.48	5.70	7.56	2.52	3.89	6.19	8.59
	24	1.42	2.12	3.49	4.79	1.82	2.65	4.42	5.97	2.17	3.32	5.54	7.41	2.37	3.73	6.04	8.43
9	12	1.52	2.20	3.49	4.79	1.91	2.72	4.37	5.85	2.27	3.37	5.43	7.19	2.47	3.80	6.03	8.28
	16	1.43	2.12	3.42	4.70	1.82	2.63	4.28	5.76	2.17	3.27	5.33	7.10	2.37	3.70	5.93	8.17
	24	1.28	1.95	3.26	4.54	1.65	2.45	4.11	5.59	1.98	3.08	5.14	6.91	2.18	3.49	5.73	7.96
10	12	1.41	2.07	3.28	4.49	1.77	2.56	4.07	5.47	2.12	3.16	5.04	6.70	2.32	3.61	5.70	7.78
	16	1.31	1.97	3.19	4.38	1.67	2.45	3.97	5.36	2.00	3.04	4.92	6.58	2.20	3.48	5.57	7.64
	24	1.12	1.77	3.00	4.18	1.46	2.23	3.77	5.14	1.77	2.81	4.69	6.34	1.97	3.22	5.33	7.38
12	12	1.16	1.76	2.77	3.75	1.47	2.17	3.41	4.54	1.78	2.69	4.19	5.57	1.97	3.14	4.92	6.50
	16	1.03	1.62	2.64	3.61	1.33	2.02	3.27	4.39	1.62	2.53	4.03	5.41	1.82	2.96	4.74	6.32
	24	0.79 ³	1.36 ⁴	2.40	3.35	1.07 ⁴	1.74	3.01	4.12	1.33	2.23	3.74	5.10	1.52	2.63	4.41	5.97
14	12	0.90 ⁴	1.41	2.22	2.96	1.15	1.75	2.71	3.57	1.42	2.19	3.32	4.39	1.60	2.58	3.92	5.15
	16	0.75 ³	1.25 ⁴	2.08	2.80	0.99 ³	1.58	2.55	3.41	1.24 ⁴	2.00	3.14	4.21	1.42	2.37	3.71	4.95
	24	0.49 ²	0.96 ³	1.81 ³	2.52 ⁴	0.70 ³	1.26 ³	2.27 ⁴	3.11	0.91 ³	1.65 ⁴	2.82	3.88	1.08 ³	1.98 ⁴	3.35	4.57
16	12	0.65 ³	1.08 ³	1.74	2.30	0.85 ³	1.35 ⁴	2.12	2.78	1.07 ⁴	1.71	2.60	3.42	1.25 ⁴	2.04	3.07	4.03
	16	0.50 ²	0.91 ³	1.59 ³	2.14 ⁴	0.68 ³	1.17 ³	1.96 ⁴	2.61	0.88 ³	1.51 ⁴	2.41	3.24	1.04 ³	1.81 ⁴	2.86	3.82
	24	0.23 ¹	0.61 ²	1.32 ³	1.86 ³	0.40 ²	0.85 ²	1.67 ³	2.31 ³	0.55 ²	1.16 ³	2.09 ³	2.91 ⁴	0.69 ²	1.41 ³	2.49 ³	3.44 ⁴

15 psf Lateral Load

4" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.23	1.92	3.32	4.60	1.62	2.45	4.22	5.77	1.95	3.10	5.32	7.19	2.15	3.49	5.81	8.18
	16	1.06	1.74	3.14	4.42	1.42	2.25	4.03	5.57	1.74	2.88	5.10	6.97	1.94	3.26	5.59	7.95
	24	0.72	1.38	2.81	4.06	1.05	1.86	3.67	5.18	1.33	2.46	4.68	6.55	1.53	2.81	5.16	7.49
9	12	1.05	1.71	3.04	4.30	1.40	2.20	3.87	5.33	1.71	2.80	4.86	6.63	1.91	3.19	5.44	7.65
	16	0.84	1.49	2.83	4.06	1.17	1.95	3.64	5.08	1.46	2.53	4.59	6.36	1.65	2.91	5.16	7.35
	24	0.44 ⁴	1.06	2.43	3.63	0.74 ⁴	1.49	3.20	4.60	0.98	2.03	4.09	5.84	1.16	2.37	4.62	6.78
10	12	0.86	1.49	2.74	3.89	1.18	1.93	3.48	4.83	1.46	2.48	4.36	6.01	1.65	2.87	4.97	7.01
	16	0.61 ⁴	1.22	2.49	3.62	0.91	1.64	3.21	4.54	1.16	2.17	4.05	5.69	1.35	2.53	4.64	6.65
	24	0.17 ³	0.74 ³	2.03 ⁴	3.11	0.42 ²	1.12 ⁴	2.70	3.99	0.62 ⁴	1.60	3.47	5.09	0.79 ⁴	1.91	4.02	5.98
12	12	0.48 ³	1.01 ⁴	2.08	2.99	0.72 ⁴	1.37	2.65	3.73	0.95 ⁴	1.82	3.33	4.69	1.12	2.17	3.95	5.50
	16	0.19 ³	0.70 ³	1.78 ⁴	2.67	0.42 ³	1.03 ³	2.33 ⁴	3.38	0.60 ³	1.45 ⁴	2.96	4.31	0.76 ³	1.75	3.54	5.07
	24	-	0.14 ²	1.25 ³	2.09 ³	-	0.43 ³	1.75 ³	2.76 ³	-	0.79 ³	2.31 ³	3.62 ⁴	0.11 ³	1.02 ²	2.80 ⁴	4.28
14	12	0.15 ²	0.58 ³	1.46 ³	2.15 ⁴	0.33 ³	0.86 ³	1.89 ³	2.70	0.49 ³	1.21 ³	2.39 ⁴	3.44	0.63 ³	1.48 ⁴	2.87	4.07
	16	-	0.25 ²	1.15 ³	1.82 ³	0.01 ²	0.50 ³	1.56 ³	2.35 ³	0.13 ²	0.82 ³	2.01 ³	3.05 ⁴	0.24 ³	1.03 ³	2.44 ³	3.62
	24	-	-	0.62 ²	1.24 ²	-	-	0.98 ²	1.72 ³	-	0.14 ²	1.36 ²	2.36 ³	-	0.26 ³	1.69 ³	2.83 ³
16	12	-	0.23 ²	0.97 ²	1.49 ³	0.03 ²	0.44 ²	1.30 ³	1.92 ³	0.13 ²	0.71 ³	1.67 ³	2.48 ³	0.24 ²	0.90 ³	2.01 ³	2.95 ⁴
	16	-	-	0.67 ²	1.17 ²	-	0.09 ²	0.97 ²	1.57 ³	-	0.32 ²	1.30 ²	2.10 ³	-	0.46 ²	1.60 ³	2.52 ³
	24	-	-	0.16 ¹	0.62 ¹	-	-	0.42 ¹	0.98 ²	-	-	0.67 ¹	1.45 ²	-	-	0.89 ²	1.77 ²

20 psf Lateral Load

4" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	1.06	1.74	3.14	4.42	1.42	2.25	4.03	5.57	1.74	2.88	5.10	6.97	1.94	3.26	5.59	7.95
	16	0.83	1.50	2.92	4.18	1.18	1.99	3.79	5.31	1.47	2.60	4.82	6.69	1.66	2.96	5.30	7.64
	24	0.40 ⁴	1.04	2.50	3.72	0.71	1.50	3.32	4.81	0.95	2.06	4.28	6.14	1.14	2.39	4.74	7.04
9	12	0.84	1.49	2.83	4.06	1.17	1.95	3.64	5.08	1.46	2.53	4.59	6.36	1.65	2.91	5.16	7.35
	16	0.57 ⁴	1.20	2.56	3.77	0.88	1.64	3.34	4.76	1.13	2.20	4.25	6.01	1.32	2.54	4.80	6.97
	24	0.07 ³	0.67 ³	2.06	3.21	0.33 ³	1.07 ⁴	2.78	4.16	0.53 ⁴	1.56	3.61	5.35	0.71 ⁴	1.86	4.12	6.23
10	12	0.61 ⁴	1.22	2.49	3.62	0.91	1.64	3.21	4.54	1.16	2.17	4.05	5.69	1.35	2.53	4.64	6.65
	16	0.31 ³	0.89 ⁴	2.18	3.28	0.58 ³	1.29	2.86	4.17	0.80 ⁴	1.78	3.66	5.29	0.97	2.11	4.22	6.19
	24	-	0.30 ³	1.61 ³	2.65 ⁴	-	0.65 ³	2.24 ⁴	3.48	0.13 ³	1.07 ³	2.94	4.54	0.28 ³	1.33 ⁴	3.44	5.35
12	12	0.19 ³	0.70 ³	1.78 ⁴	2.67	0.42 ³	1.03 ³	2.33 ⁴	3.38	0.60 ³	1.45 ⁴	2.96	4.31	0.76 ³	1.75	3.54	5.07
	16	-	0.32 ³	1.42 ³	2.27 ³	0.04 ²	0.62 ³	1.94 ³	2.96 ⁴	0.18 ³	1.00 ³	2.52 ⁴	3.84	0.32 ³	1.25 ⁴	3.03 ⁴	4.53
	24	-	-	0.79 ²	1.57 ³	-	-	1.24 ²	2.20 ³	-	0.21 ²	1.73 ³	3.01 ³	-	0.36 ²	2.14 ³	3.59 ³
14	12	-	0.25 ²	1.15 ³	1.82 ³	0.01 ²	0.50 ³	1.56 ³	2.35 ³	0.13 ²	0.82 ³	2.01 ³	3.05 ⁴	0.24 ³	1.03 ³	2.44 ³	3.62
	16	-	-	0.79 ²	1.42 ³	-	0.08 ²	1.16 ²	1.92 ³	-	0.35 ²	1.57 ³	2.58 ³	-	0.51 ³	1.93 ³	3.08 ³
	24	-	-	0.15 ¹	0.73 ¹	-	-	0.48 ¹	1.18 ²	-	-	0.79 ²	1.76 ²	-	-	1.04 ²	2.15 ³
16	12	-	-	0.67 ²	1.17 ²	-	0.09 ²	0.97 ²	1.57 ³	-	0.32 ²	1.30 ²	2.10 ³	-	0.46 ²	1.60 ³	2.52 ³
	16	-	-	0.32 ¹	0.80 ²	-	-	0.59 ¹	1.17 ²	-	-	0.87 ²	1.66 ²	-	-	1.11 ²	2.00 ³
	24	-	-	-	0.15 ¹	-	-	-	0.48 ¹	-	-	0.14 ¹	0.89 ¹	-	-	0.27 ¹	1.12 ²

COMBINED AXIAL AND LATERAL LOADS

25 psf Lateral Load

4" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.88	1.56	2.98	4.24	1.24	2.05	3.85	5.37	1.53	2.67	4.89	6.76	1.73	3.03	5.37	7.72
	16	0.61	1.27	2.71	3.95	0.94	1.74	3.55	5.06	1.20	2.32	4.54	6.41	1.40	2.67	5.02	7.34
	24	0.10 ³	0.72 ⁴	2.19	3.39	0.37 ⁴	1.15	2.98	4.45	0.59 ⁴	1.68	3.89	5.75	0.76	1.98	4.34	6.61
9	12	0.63	1.27	2.63	3.84	0.95	1.72	3.41	4.84	1.21	2.28	4.33	6.10	1.40	2.63	4.89	7.06
	16	0.32 ³	0.93 ⁴	2.31	3.49	0.60 ⁴	1.35	3.06	4.45	0.83	1.87	3.92	5.68	1.01	2.20	4.45	6.59
	24	-	0.30 ³	1.70 ³	2.82 ⁴	-	0.66 ³	2.39 ⁴	3.73	0.12 ³	1.12 ⁴	3.16	4.89	0.27 ³	1.38	3.64	5.72
10	12	0.39 ³	0.97 ⁴	2.26	3.36	0.66 ⁴	1.38	2.95	4.26	0.89	1.88	3.75	5.39	1.06	2.21	4.32	6.30
	16	0.03 ³	0.59 ³	1.89 ⁴	2.95	0.27 ³	0.96 ⁴	2.54	3.82	0.46 ³	1.42 ⁴	3.29	4.91	0.62 ⁴	1.71	3.82	5.76
	24	-	-	1.22 ³	2.21 ³	-	0.21 ³	1.81 ³	3.01 ⁴	-	0.59 ³	2.45 ³	4.03 ⁴	-	0.80 ³	2.90 ⁴	4.77
12	12	-	0.41 ³	1.51 ³	2.37 ⁴	0.13 ³	0.72 ³	2.03 ³	3.06 ⁴	0.28 ³	1.10 ³	2.62 ⁴	3.95	0.42 ³	1.37 ⁴	3.15	4.66
	16	-	-	1.09 ³	1.91 ³	-	0.25 ³	1.58 ³	2.56 ³	-	0.59 ³	2.11 ³	3.41 ⁴	-	0.79 ³	2.57 ³	4.04 ⁴
	24	-	-	0.37 ²	1.11 ²	-	-	0.78 ²	1.69 ²	-	-	1.20 ²	2.45 ³	-	-	1.54 ³	2.95 ³
14	12	-	-	0.87 ²	1.51 ³	-	0.18 ²	1.26 ³	2.02 ³	-	0.46 ²	1.67 ³	2.69 ³	-	0.63 ³	2.05 ³	3.21 ⁴
	16	-	-	0.46 ¹	1.06 ²	-	-	0.80 ²	1.54 ²	-	-	1.16 ²	2.15 ³	-	0.03 ³	1.46 ²	2.60 ³
	24	-	-	-	0.28 ¹	-	-	0.03 ¹	0.70 ¹	-	-	0.28 ¹	1.23 ²	-	-	0.46 ¹	1.53 ²
16	12	-	-	0.40 ¹	0.89 ²	-	-	0.69 ²	1.27 ²	-	-	0.97 ²	1.76 ²	-	0.07 ²	1.23 ²	2.13 ³
	16	-	-	-	0.46 ¹	-	-	0.26 ¹	0.81 ¹	-	-	0.49 ¹	1.26 ²	-	-	0.67 ¹	1.54 ²
	24	-	-	-	-	-	-	-	0.02 ¹	-	-	-	0.39 ¹	-	-	-	0.55 ¹

30 psf Lateral Load

4" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.72	1.38	2.81	4.06	1.05	1.86	3.67	5.18	1.33	2.46	4.68	6.55	1.53	2.81	5.16	7.49
	16	0.40 ⁴	1.04	2.50	3.72	0.71	1.50	3.32	4.81	0.95	2.06	4.28	6.14	1.14	2.39	4.74	7.04
	24	-	0.41 ³	1.90 ⁴	3.07	0.06 ³	0.81 ⁴	2.66	4.10	0.24 ³	1.31	3.52	5.37	0.41 ⁴	1.58	3.95	6.19
9	12	0.44 ⁴	1.06	2.43	3.63	0.74 ⁴	1.49	3.20	4.60	0.98	2.03	4.09	5.84	1.16	2.37	4.62	6.78
	16	0.07 ³	0.67 ³	2.06	3.21	0.33 ³	1.07 ⁴	2.78	4.16	0.53 ⁴	1.56	3.61	5.35	0.71 ⁴	1.86	4.12	6.23
	24	-	-	1.37 ³	2.45 ³	-	0.28 ³	2.02 ³	3.33 ⁴	-	0.70 ³	2.73 ⁴	4.45	-	0.93 ⁴	3.18	5.22
10	12	0.17 ³	0.74 ³	2.03 ⁴	3.11	0.42 ³	1.12 ⁴	2.70	3.99	0.62 ⁴	1.60	3.47	5.09	0.79 ⁴	1.91	4.02	5.98
	16	-	0.30 ³	1.61 ³	2.65 ⁴	-	0.65 ³	2.24 ⁴	3.48	0.13 ³	1.07 ³	2.94	4.54	0.28 ³	1.33 ⁴	3.44	5.35
	24	-	-	0.85 ²	1.80 ³	-	-	1.40 ³	2.57 ³	-	0.14 ³	1.98 ³	3.54 ³	-	0.30 ³	2.39 ³	4.22 ⁴
12	12	-	0.14 ²	1.25 ³	2.09 ³	-	0.43 ³	1.75 ³	2.76 ³	-	0.79 ³	2.31 ³	3.62 ⁴	0.11 ³	1.02 ³	2.80 ⁴	4.28
	16	-	-	0.79 ²	1.57 ³	-	-	1.24 ²	2.20 ³	-	0.21 ²	1.73 ³	3.01 ³	-	0.36 ³	2.14 ³	3.59 ³
	24	-	-	-	0.68 ²	-	-	0.36 ¹	1.23 ²	-	-	0.71 ²	1.93 ²	-	-	0.99 ²	2.36 ³
14	12	-	-	0.62 ²	1.24 ²	-	-	0.98 ²	1.72 ³	-	0.14 ²	1.36 ²	2.36 ³	-	0.26 ²	1.69 ³	2.83 ³
	16	-	-	0.15 ¹	0.73 ¹	-	-	0.48 ¹	1.18 ²	-	-	0.79 ²	1.76 ²	-	-	1.04 ²	2.15 ³
	24	-	-	-	-	-	-	-	0.25 ¹	-	-	-	0.73 ¹	-	-	-	0.96 ²
16	12	-	-	0.16 ¹	0.62 ¹	-	-	0.42 ¹	0.98 ²	-	-	0.67 ¹	1.45 ²	-	-	0.89 ²	1.77 ²
	16	-	-	-	0.15 ¹	-	-	-	0.48 ¹	-	-	0.14 ¹	0.89 ¹	-	-	0.27 ¹	1.12 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02 ¹

35 psf Lateral Load

4" MEMBERS																	
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.56	1.21	2.65	3.89	0.88	1.68	3.49	4.99	1.14	2.26	4.48	6.34	1.33	2.60	4.95	7.26
	16	0.20 ³	0.83	2.29	3.50	0.48 ⁴	1.26	3.09	4.57	0.71	1.80	4.02	5.88	0.89	2.11	4.47	6.75
	24	-	0.11 ³	1.62 ³	2.77	-	0.49 ³	2.34 ⁴	3.76	-	0.95 ⁴	3.15	5.00	0.06 ³	1.20	3.58	5.78
9	12	0.25 ³	0.86 ⁴	2.24	3.42	0.53 ⁴	1.28	2.99	4.38	0.75 ⁴	1.79	3.84	5.59	0.93	2.11	4.37	6.50
	16	-	0.42 ³	1.82 ⁴	2.95	0.08 ³	0.80 ³	2.52	3.87	0.25 ³	1.27 ⁴	3.31	5.04	0.42 ³	1.54	3.80	5.89
	24	-	-	1.04 ³	2.09 ³	-	-	1.66 ³	2.94 ³	-	0.30 ³	2.32 ³	4.03 ⁴	-	0.49 ³	2.74 ⁴	4.74
10	12	-	0.51 ³	1.82 ⁴	2.87	0.20 ³	0.88 ³	2.47 ⁴	3.73	0.37 ³	1.33 ⁴	3.20	4.81	0.53 ⁴	1.61	3.72	5.66
	16	-	0.03 ³	1.35 ³	2.35 ³	-	0.35 ³	1.95 ³	3.17 ⁴	-	0.75 ³	2.61 ⁴	4.20	-	0.97 ³	3.08 ⁴	4.96
	24	-	-	0.50 ²	1.42 ³	-	-	1.02 ²	2.15 ³	-	-	1.54 ³	3.08 ³	-	-	1.91 ³	3.69 ³
12	12	-	-	1.02 ²	1.82 ³	-	0.16 ²	1.49	2.47 ³	-	0.49 ³	2.01 ³	3.30	-	0.68 ³	2.46 ³	3.93 ⁴
	16	-	-	0.50 ²	1.26 ²	-	-	0.93	1.86 ³	-	-	1.37 ³	2.63 ³	-	-	1.73 ³	3.16 ³
	24	-	-	-	0.28 ¹	-	-	-	0.79 ²	-	-	0.26 ²	1.45 ²	-	-	0.47 ²	1.81 ²
14	12	-	-	0.38 ¹	0.98 ²	-	-	0.72	1.45 ²	-	-	1.06 ²	2.05 ³	-	-	1.36 ²	2.48 ³
	16	-	-	-	0.43 ¹	-	-	0.17	0.85 ¹	-	-	0.44 ¹	1.40 ²	-	-	0.65 ²	1.73 ²
	24	-	-	-	-	-	-	-	-	-	-	-	0.28 ¹	-	-	-	0.44 ¹
16	12	-	-	-	0.38 ¹	-	-	0.18	0.72 ¹	-	-	0.40 ¹	1.16 ²	-	-	0.57 ¹	1.43 ²
	16	-	-	-	-	-	-	-	0.17 ¹	-	-	-	0.55 ¹	-	-	-	0.73 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

COMBINED AXIAL AND LATERAL LOADS

40 psf Lateral Load

4" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.40 ⁴	1.04	2.50	3.72	0.71	1.50	3.32	4.81	0.95	2.06	4.28	6.14	1.14	2.39	4.74	7.04
	16	-	0.62 ⁴	2.10	3.29	0.27 ³	1.03	2.87	4.33	0.47 ⁴	1.55	3.76	5.62	0.64	1.84	4.21	6.47
	24	-	-	1.34 ³	2.47 ⁴	-	0.18 ³	2.04 ⁴	3.44	-	0.61 ³	2.80 ⁴	4.64	-	0.83 ⁴	3.21	5.39
9	12	0.07 ³	0.67 ³	2.06	3.21	0.33 ³	1.07 ⁴	2.78	4.16	0.53 ⁴	1.56	3.61	5.35	0.71 ⁴	1.86	4.12	6.23
	16	-	0.18 ³	1.59 ³	2.70 ⁴	-	0.54 ³	2.26 ⁴	3.60	-	0.98 ⁴	3.01	4.74	0.14 ³	1.23 ⁴	3.48	5.55
	24	-	-	0.74 ³	1.75 ³	-	-	1.32 ³	2.57	-	-	1.93 ³	3.62 ⁴	-	0.08 ³	2.32 ³	4.29 ⁴
10	12	-	0.30 ³	1.61 ³	2.65 ⁴	-	0.65 ³	2.24 ⁴	3.48	0.13 ³	1.07 ³	2.94	4.54	0.28 ³	1.33 ⁴	3.44	5.35
	16	-	-	1.09 ³	2.07 ³	-	0.07 ³	1.67 ³	2.86	-	0.44 ³	2.29 ³	3.86 ⁴	-	0.63 ³	2.73 ⁴	4.58
	24	-	-	0.17 ²	1.05 ²	-	-	0.66 ²	1.75	-	-	1.13 ³	2.64 ³	-	-	1.46 ³	3.19 ³
12	12	-	-	0.79 ²	1.57 ³	-	-	1.24 ²	2.20	-	0.21 ²	1.73 ³	3.01 ³	-	0.36 ²	2.14 ³	3.59 ³
	16	-	-	0.23 ¹	0.96 ²	-	-	0.64 ²	1.54	-	-	1.03 ²	2.27 ³	-	-	1.35 ²	2.75 ³
	24	-	-	-	-	-	-	-	0.38	-	-	-	1.00 ²	-	-	-	1.29 ²
14	12	-	-	0.15 ¹	0.73 ¹	-	-	0.48 ¹	1.18	-	-	0.79 ²	1.76 ²	-	-	1.04 ²	2.15 ²
	16	-	-	-	0.14 ¹	-	-	-	0.54	-	-	0.12 ¹	1.06 ²	-	-	0.28 ¹	1.34 ²
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12	-	-	-	0.15 ¹	-	-	-	0.48	-	-	0.14 ¹	0.89 ¹	-	-	0.27 ¹	1.12 ²
	16	-	-	-	-	-	-	-	-	-	-	-	0.23 ¹	-	-	-	0.37 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

50 psf Lateral Load

4" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	400S137				400S162				400S200				400S250			
		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi		33 ksi		50 ksi	
		33	43	54	68	33	43	54	68	33	43	54	68	33	43	54	68
8	12	0.10 ³	0.72 ⁴	2.19	3.39	0.37 ⁴	1.15	2.98	4.45	0.59 ⁴	1.68	3.89	5.75	0.76	1.98	4.34	6.61
	16	-	0.21 ³	1.71 ⁴	2.87	-	0.59 ³	2.45	3.87	0.01 ³	1.07 ⁴	3.27	5.12	0.17 ³	1.33	3.70	5.92
	24	-	-	0.82 ³	1.90 ³	-	-	1.46 ³	2.81 ³	-	-	2.13 ³	3.95 ⁴	-	0.12 ³	2.51 ⁴	4.62
9	12	-	0.30 ³	1.70 ³	2.82 ⁴	-	0.66 ³	2.39 ⁴	3.73	0.12 ³	1.12 ⁴	3.16	4.89	0.27 ³	1.38	3.64	5.72
	16	-	-	1.15 ³	2.21 ³	-	0.04 ³	1.78 ³	3.07 ⁴	-	0.44 ³	2.46 ³	4.16	-	0.64 ³	2.89 ⁴	4.90
	24	-	-	0.15 ²	1.11 ²	-	-	0.68 ²	1.87 ³	-	-	1.19 ³	2.84 ³	-	-	1.52 ²	3.41 ³
10	12	-	-	1.22 ³	2.21 ³	-	0.21 ³	1.81 ³	3.01 ⁴	-	0.59 ³	2.45 ³	4.03 ⁴	-	0.80 ³	2.90 ⁴	4.77
	16	-	-	0.62 ²	1.55 ³	-	-	1.15 ³	2.29 ³	-	-	1.69 ³	3.23 ³	-	-	2.07 ³	3.87 ⁴
	24	-	-	-	0.37 ²	-	-	-	1.00 ²	-	-	0.35 ²	1.82 ²	-	-	0.60 ²	2.26 ³
12	12	-	-	0.37 ²	1.11 ²	-	-	0.78 ²	1.69 ²	-	-	1.20 ²	2.45 ³	-	-	1.54 ³	2.95 ³
	16	-	-	-	0.41 ¹	-	-	0.09 ¹	0.93 ²	-	-	0.41 ²	1.61 ²	-	-	0.64 ²	1.99 ²
	24	-	-	-	-	-	-	-	-	-	-	-	0.16 ¹	-	-	-	0.33 ¹
14	12	-	-	-	0.28 ¹	-	-	0.03 ¹	0.70 ¹	-	-	0.28 ¹	1.23 ²	-	-	0.46 ¹	1.53 ²
	16	-	-	-	-	-	-	-	-	-	-	-	0.43 ¹	-	-	-	0.61 ¹
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12	-	-	-	-	-	-	-	0.02 ¹	-	-	-	0.39 ¹	-	-	-	0.55 ¹
	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5 psf Lateral Load

6" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					400S250				
		33 ksi			50 ksi		33 ksi			50 ksi		33 ksi			50 ksi		33 ksi			50 ksi	
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.77	2.51	3.81	5.05	7.56	2.42	3.40	5.61	7.45	11.4	2.83	4.31	7.46	9.97	15.7	3.07	4.66	7.64	11.1	18.3
	16	1.73	2.47	3.78	5.02	7.53	2.37	3.35	5.57	7.41	11.4	2.78	4.26	7.41	9.93	15.6	3.02	4.61	7.59	11.0	18.2
	24	1.66	2.40	3.72	4.96	7.48	2.28	3.27	5.49	7.33	11.3	2.69	4.16	7.31	9.83	15.5	2.92	4.50	7.50	10.9	18.1
9	12	1.74	2.48	3.78	5.02	7.54	2.38	3.36	5.57	7.41	11.4	2.77	4.23	7.31	9.79	15.4	3.00	4.58	7.51	10.9	17.9
	16	1.69	2.43	3.74	4.98	7.50	2.32	3.30	5.52	7.36	11.3	2.71	4.16	7.25	9.73	15.3	2.94	4.51	7.44	10.8	17.9
	24	1.59	2.33	3.66	4.90	7.43	2.20	3.19	5.42	7.26	11.2	2.59	4.03	7.12	9.61	15.2	2.82	4.38	7.32	10.6	17.7
10	12	1.70	2.44	3.75	4.99	7.51	2.33	3.31	5.53	7.37	11.3	2.70	4.13	7.14	9.58	15.1	2.93	4.48	7.35	10.6	17.5
	16	1.64	2.38	3.70	4.94	7.46	2.25	3.24	5.46	7.30	11.3	2.62	4.04	7.05	9.50	15.0	2.85	4.40	7.27	10.5	17.4
	24	1.51	2.25	3.59	4.84	7.37	2.11	3.11	5.33	7.17	11.1	2.47	3.88	6.89	9.34	14.8	2.70	4.23	7.11	10.4	17.2
12	12	1.61	2.34	3.67	4.91	7.43	2.16	3.15	5.35	7.25	11.2	2.52	3.87	6.67	9.00	14.2	2.74	4.24	6.94	10.0	16.4
	16	1.51	2.25	3.59	4.83	7.36	2.06	3.05	5.25	7.15	11.1	2.41	3.76	6.55	8.89	14.1	2.63	4.12	6.82	9.87	16.3
	24	1.34	2.07	3.43	4.67	7.22	1.85	2.85	5.05	6.95	10.9	2.20	3.52	6.31	8.66	13.9	2.41	3.88	6.59	9.62	16.0
14	12	1.49	2.22	3.55	4.79	7.32	1.95	2.91	4.93	6.77	11.0	2.30	3.56	6.07	8.26	13.1	2.51	3.95	6.46	9.26	15.1
	16	1.36	2.09	3.44	4.67	7.22	1.81	2.78	4.80	6.63	10.8	2.16	3.40	5.91	8.10	12.9	2.36	3.78	6.29	9.08	14.9
	24	1.12	1.85	3.21	4.45	7.02	1.54	2.51	4.53	6.35	10.5	1.88	3.09	5.59	7.79	12.6	2.07	3.46	5.98	8.73	14.5
16	12	1.34	2.07	3.40	4.63	7.17	1.71	2.62	4.41	6.09	9.89	2.04	3.18	5.38	7.38	11.7	2.24	3.60	5.96	8.44	13.5
	16	1.18	1.90	3.24	4.47	7.02	1.53	2.45	4.24	5.91	9.68	1.86	2.98	5.18	7.17	11.5	2.05	3.38	5.74	8.20	13.3
	24	0.88 ³	1.59	2.95	4.16	6.73	1.20 ⁴	2.12	3.91	5.56	9.28	1.52	2.61	4.79	6.79	11.1	1.70	2.98	5.34	7.76	12.8

NOTE: See page 26 for Table Notes.

COMBINED AXIAL AND LATERAL LOADS

15 psf Lateral Load

6" MEMBERS																					
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					600S250				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.54	2.28	3.62	4.87	7.40	2.14	3.14	5.37	7.22	11.2	2.55	4.01	7.16	9.69	15.4	2.78	4.35	7.35	10.7	18.0
	16	1.43	2.17	3.53	4.77	7.32	2.01	3.02	5.25	7.10	11.1	2.41	3.86	7.01	9.55	15.2	2.63	4.20	7.21	10.6	17.8
	24	1.20	1.95	3.34	4.59	7.16	1.74	2.77	5.02	6.88	10.8	2.13	3.56	6.71	9.27	15.0	2.35	3.89	6.92	10.3	17.5
9	12	1.44	2.19	3.54	4.78	7.33	2.02	3.03	5.26	7.11	11.1	2.41	3.84	6.92	9.43	15.0	2.63	4.18	7.13	10.4	17.5
	16	1.30	2.04	3.41	4.66	7.22	1.85	2.87	5.11	6.96	10.9	2.23	3.65	6.73	9.25	14.8	2.45	3.99	6.95	10.2	17.3
	24	1.01	1.76	3.17	4.42	7.02	1.51	2.56	4.81	6.67	10.6	1.89	3.27	6.35	8.89	14.5	2.09	3.60	6.58	9.84	16.9
10	12	1.33	2.08	3.44	4.68	7.24	1.89	2.91	5.14	6.98	10.9	2.25	3.65	6.65	9.12	14.6	2.47	3.99	6.88	10.1	17.0
	16	1.15	1.90	3.29	4.53	7.11	1.68	2.71	4.94	6.80	10.8	2.04	3.41	6.41	8.89	14.4	2.25	3.75	6.65	9.84	16.7
	24	0.81	1.55	2.98	4.23	6.85	1.27	2.32	4.57	6.42	10.4	1.62	2.96	5.94	8.45	13.9	1.81	3.28	6.20	9.35	16.2
12	12	1.08	1.81	3.20	4.44	7.02	1.54	2.56	4.76	6.66	10.6	1.89	3.19	5.96	8.33	13.5	2.09	3.54	6.25	9.24	15.6
	16	0.83	1.56	2.97	4.21	6.82	1.25	2.28	4.48	6.37	10.3	1.59	2.86	5.63	8.00	13.2	1.78	3.20	5.93	8.88	15.3
	24	0.36 ⁴	1.08	2.54	3.78	6.43	0.71	1.75	3.94	5.82	9.74	1.03	2.24	4.98	7.37	12.5	1.20	2.55	5.29	8.18	14.5
14	12	0.78	1.50	2.89	4.12	6.72	1.15	2.13	4.15	5.95	10.1	1.48	2.65	5.14	7.34	12.1	1.66	3.00	5.53	8.23	14.0
	16	0.47 ⁴	1.17	2.59	3.81	6.43	0.80	1.78	3.78	5.57	9.63	1.11	2.24	4.71	6.92	11.6	1.27	2.57	5.10	7.75	13.5
	24	-	0.57 ³	2.02 ⁴	3.23	5.88	0.14 ³	1.12 ⁴	3.11	4.87	8.83	0.43 ³	1.49	3.92	6.12	10.8	0.56 ⁴	1.77	4.30	6.85	12.5
16	12	0.47 ³	1.16	2.53	3.73	6.32	0.76 ⁴	1.67	3.45	5.08	8.73	1.05	2.09	4.25	6.25	10.5	1.21	2.43	4.78	7.13	12.2
	16	0.10 ³	0.76 ³	2.15 ⁴	3.33	5.94	0.36 ³	1.26 ⁴	3.03	4.63	8.22	0.63 ³	1.62	3.76	5.75	9.94	0.77 ⁴	1.92	4.26	6.56	11.6
	24	-	0.05 ³	1.47 ³	2.61 ³	5.22	-	0.51 ³	2.28 ³	3.82 ⁴	7.28	-	0.77 ³	2.88 ⁴	4.84	8.92	-	1.00 ³	3.32 ⁴	5.51	10.4

20 psf Lateral Load

6" MEMBERS																					
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					600S250				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.43	2.17	3.53	4.77	7.32	2.01	3.02	5.25	7.10	11.1	2.41	3.86	7.01	9.55	15.2	2.63	4.20	7.21	10.6	17.8
	16	1.27	2.02	3.40	4.65	7.21	1.83	2.85	5.10	6.95	10.9	2.22	3.66	6.81	9.36	15.0	2.44	3.99	7.01	10.4	17.6
	24	0.98	1.73	3.15	4.40	7.00	1.48	2.53	4.79	6.65	10.6	1.86	3.27	6.41	9.00	14.7	2.07	3.59	6.63	9.96	17.2
9	12	1.30	2.04	3.41	4.66	7.22	1.85	2.87	5.11	6.96	10.9	2.23	3.65	6.73	9.25	14.8	2.45	3.99	6.95	10.2	17.3
	16	1.11	1.85	3.25	4.50	7.09	1.63	2.66	4.91	6.77	10.7	2.00	3.40	6.48	9.01	14.6	2.21	3.73	6.70	9.97	17.0
	24	0.74	1.49	2.93	4.19	6.81	1.19	2.25	4.51	6.38	10.4	1.55	2.91	5.98	8.54	14.1	1.74	3.23	6.22	9.45	16.5
10	12	1.15	1.90	3.29	4.53	7.11	1.68	2.71	4.94	6.80	10.8	2.04	3.41	6.41	8.89	14.4	2.25	3.75	6.65	9.84	16.7
	16	0.92	1.67	3.08	4.33	6.94	1.40	2.45	4.69	6.55	10.5	1.76	3.11	6.10	8.59	14.1	1.96	3.44	6.34	9.51	16.4
	24	0.48	1.22	2.69	3.94	6.59	0.87	1.94	4.20	6.06	10.0	1.21	2.51	5.49	8.01	13.5	1.39	2.83	5.75	8.86	15.7
12	12	0.83	1.56	2.97	4.21	6.82	1.25	2.28	4.48	6.37	10.3	1.59	2.86	5.63	8.00	13.2	1.78	3.20	5.93	8.88	15.3
	16	0.51	1.24	2.68	3.92	6.56	0.88	1.92	4.11	6.00	9.92	1.21	2.44	5.19	7.58	12.7	1.39	2.76	5.50	8.41	14.8
	24	-	0.63 ⁴	2.13	3.36	6.05	0.20 ³	1.24	3.43	5.30	9.19	0.50 ⁴	1.66	4.37	6.77	11.9	0.64	1.94	4.69	7.51	13.8
14	12	0.47 ⁴	1.17	2.59	3.81	6.43	0.80	1.78	3.78	5.57	9.63	1.11	2.24	4.71	6.92	11.6	1.27	2.57	5.10	7.75	13.5
	16	0.08 ³	0.76 ⁴	2.21	3.42	6.06	0.35 ³	1.33 ⁴	3.33	5.10	9.09	0.65 ⁴	1.73	4.18	6.38	11.1	0.79 ⁴	2.03	4.56	7.15	12.8
	24	-	0.01 ³	1.50 ³	2.68 ⁴	5.36	-	0.52 ³	2.49 ³	4.21	8.09	0.79 ³	3.19 ⁴	5.39	9.97	-	1.03 ⁴	3.56	6.02	11.6	
16	12	0.10 ³	0.76 ³	2.15 ⁴	3.33	5.94	0.36 ³	1.26 ⁴	3.03	4.63	8.22	0.63 ³	1.62	3.76	5.75	9.94	0.77 ⁴	1.92	4.26	6.56	11.6
	16	-	0.28 ³	1.69 ³	2.84 ⁴	5.45	-	0.75 ³	2.52 ³	4.08	7.58	0.11 ³	1.04 ³	3.16 ⁴	5.13	9.25	0.22 ³	1.29 ⁴	3.62	5.84	10.8
	24	-	-	0.85 ²	1.95 ³	4.57 ³	-	-	1.60 ³	3.09 ³	6.44 ⁴	-	0.01 ³	2.09 ³	4.03 ³	8.00	-	0.17 ³	2.47 ³	4.56 ⁴	9.40

25 psf Lateral Load

6" MEMBERS																									
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137						600S162						600S200						600S250					
		33 ksi		50 ksi				33 ksi		50 ksi				33 ksi		50 ksi				33 ksi		50 ksi			
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97				
8	12	1.31	2.06	3.43	4.68	7.24	1.87	2.89	5.14	6.99	11.0	2.27	3.71	6.86	9.41	15.1	2.49	4.04	7.06	10.4	17.7				
	16	1.13	1.88	3.27	4.52	7.11	1.65	2.69	4.94	6.80	10.8	2.04	3.46	6.61	9.18	14.9	2.26	3.79	6.82	10.2	17.4				
	24	0.76	1.51	2.96	4.22	6.85	1.22	2.28	4.56	6.43	10.4	1.59	2.98	6.12	8.72	14.4	1.79	3.30	6.35	9.65	16.9				
9	12	1.15	1.90	3.29	4.54	7.12	1.68	2.72	4.96	6.81	10.8	2.06	3.46	6.54	9.07	14.7	2.27	3.80	6.76	10.0	17.1				
	16	0.92	1.67	3.09	4.34	6.95	1.40	2.46	4.71	6.57	10.5	1.78	3.15	6.23	8.77	14.4	1.98	3.48	6.46	9.71	16.8				
	24	0.47	1.22	2.70	3.95	6.61	0.87	1.95	4.22	6.09	10.1	1.22	2.55	5.61	8.19	13.8	1.40	2.86	5.87	9.06	16.1				
10	12	0.98	1.72	3.13	4.38	6.98	1.47	2.51	4.75	6.61	10.6	1.83	3.18	6.17	8.67	14.1	2.03	3.51	6.42	9.59	16.5				
	16	0.70	1.44	2.89	4.14	6.76	1.13	2.19	4.44	6.30	10.3	1.48	2.81	5.79	8.30	13.8	1.67	3.13	6.05	9.18	16.1				
	24	0.15 ⁴	0.89	2.40	3.65	6.34	0.49	1.58	3.84	5.71	9.66	0.82	2.09	5.05	7.59	13.0	0.99	2.38	5.32	8.39	15.2				
12	12	0.59	1.32	2.75	3.99	6.62	0.98	2.01	4.20	6.09	10.0	1.31	2.55	5.30	7.68	12.8	1.48	2.87	5.61	8.52	14.9				
	16	0.21 ⁴	0.93	2.40	3.64	6.30	0.53 ⁴	1.58	3.76	5.64	9.55	0.85	2.04	4.77	7.17	12.3	1.01	2.35	5.09	7.95	14.3				
	24	-	0.20 ³	1.73 ⁴	2.95	5.68	-	0.76 ⁴	2.94	4.79	8.66	-	1.10 ⁴	3.79	6.20	11.3	0.12 ³	1.36	4.11	6.86	13.1				
14	12	0.17 ³	0.86 ⁴	2.30	3.51	6.15	0.46 ³	1.44	3.44	5.21	9.22	0.76 ⁴	1.86	4.31	6.51	11.2	0.91	2.16	4.69	7.29	13.0				
	16	-	0.38 ³	1.84 ⁴	3.04	5.71	-	0.91 ³	2.90 ⁴	4.64	8.58	0.21 ³	1.25 ⁴	3.67	5.87	10.5	0.33 ³	1.52	4.05	6.57	12.2				
	24	-	-	1.00 ³	2.16 ³	4.87 ⁴	-	-	1.92 ³	3.60 ³	7.39	-	0.15 ³	2.51 ³	4.70 ⁴	9.21	-	0.34 ³	2.86 ⁴	5.24	10.8				
16	12	-	0.40 ³	1.80 ³	2.96 ⁴	5.57	-	0.87 ³	2.64 ⁴	4.22	7.74	0.24 ³	1.18 ³	3.31	5.28	9.42	0.35 ³	1.45 ⁴	3.78	6.02	11.0				
	16	-	-	1.25 ³	2.38 ³	5.00 ⁴	-	0.29 ³	2.04 ³	3.57 ³	6.99	-	0.51 ³	2.61 ³	4.56 ⁴	8.61	-	0.72 ³	3.03 ⁴	5.18	10.1				
	24	-	-	0.28 ²	1.35 ²	3.96 ³	-	-	0.96 ²	2.42 ²	5.67 ³	-	-	1.37 ³	3.28 ³	7.16 ⁴	-	-	1.70 ⁴	3.70 ⁴	8.46 ⁴				

COMBINED AXIAL AND LATERAL LOADS

30 psf Lateral Load

6" MEMBERS																					
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					600S250				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.20	1.95	3.34	4.59	7.16	1.74	2.77	5.02	6.88	10.8	2.13	3.56	6.71	9.27	15.0	2.35	3.89	6.92	10.3	17.5
	16	0.98	1.73	3.15	4.40	7.00	1.48	2.53	4.79	6.65	10.6	1.86	3.27	6.41	9.00	14.7	2.07	3.59	6.63	9.96	17.2
	24	0.54	1.30	2.78	4.04	6.69	0.96	2.05	4.33	6.21	10.2	1.33	2.69	5.83	8.45	14.1	1.52	3.00	6.07	9.35	16.6
9	12	1.01	1.76	3.17	4.42	7.02	1.51	2.56	4.81	6.67	10.6	1.89	3.27	6.35	8.89	14.5	2.09	3.60	6.58	9.84	16.9
	16	0.74	1.49	2.93	4.19	6.81	1.19	2.25	4.51	6.38	10.4	1.55	2.91	5.98	8.54	14.1	1.74	3.23	6.22	9.45	16.5
	24	0.20	0.95	2.47	3.72	6.41	0.55	1.65	3.94	5.81	9.78	0.90	2.20	5.25	7.85	13.4	1.07	2.50	5.52	8.68	15.7
10	12	0.81	1.55	2.98	4.23	6.85	1.27	2.32	4.57	6.42	10.4	1.62	2.96	5.94	8.45	13.9	1.81	3.28	6.20	9.35	16.2
	16	0.48	1.22	2.69	3.94	6.59	0.87	1.94	4.20	6.06	10.0	1.21	2.51	5.49	8.01	13.5	1.39	2.83	5.75	8.86	15.7
	24	-	0.58	2.12	3.37	6.09	0.12 ⁴	1.22	3.49	5.36	9.31	0.44	1.67	4.62	7.18	12.6	0.59	1.95	4.90	7.92	14.8
12	12	0.36 ⁴	1.08	2.54	3.78	6.43	0.71	1.75	3.94	5.82	9.74	1.03	2.24	4.98	7.37	12.5	1.20	2.55	5.29	8.18	14.5
	16	-	0.63 ⁴	2.13	3.36	6.05	0.20 ³	1.24	3.43	5.30	9.19	0.50 ⁴	1.66	4.37	6.77	11.9	0.64	1.94	4.69	7.51	13.8
	24	-	-	1.35 ³	2.56 ⁴	5.31	-	0.31 ³	2.47 ⁴	4.31	8.15	-	0.57 ³	3.24	5.65	10.7	-	0.80 ⁴	3.56	6.24	12.5
14	12	-	0.57 ³	2.02 ⁴	3.23	5.88	0.14 ³	1.12 ⁴	3.11	4.87	8.83	0.43 ³	1.49	3.92	6.12	10.8	0.56 ⁴	1.77	4.30	6.85	12.5
	16	-	0.01 ³	1.50 ³	2.68 ⁴	5.36	-	0.52 ³	2.49 ³	4.21	8.09	-	0.79 ³	3.19 ⁴	5.39	9.97	-	1.03 ⁴	3.56	6.02	11.6
	24	-	-	0.54 ²	1.68 ³	4.39 ³	-	-	1.38 ³	3.02 ³	6.74 ⁴	-	-	1.88 ³	4.05 ³	8.49	-	-	2.21 ³	4.50 ⁴	10.0
16	12	-	0.05 ³	1.47 ³	2.61 ³	5.22	-	0.51 ³	2.28 ³	3.82 ⁴	7.28	-	0.77 ³	2.88 ⁴	4.84	8.92	-	1.00 ³	3.32 ⁴	5.51	10.4
	16	-	-	0.85 ²	1.95 ³	4.57 ³	-	-	1.60 ³	3.09 ³	6.44 ⁴	-	0.01 ³	2.09 ³	4.03 ³	8.00	-	0.17 ³	2.47 ³	4.56 ⁴	9.40
	24	-	-	-	0.79 ²	3.39 ³	-	-	0.40 ²	1.80 ²	4.95 ³	-	-	0.70 ²	2.59 ³	6.38 ³	-	-	0.98 ²	2.90 ³	7.59 ³

35 psf Lateral Load

6" MEMBERS																					
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					600S250				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.09	1.84	3.24	4.49	7.08	1.61	2.65	4.90	6.76	10.7	2.00	3.41	6.56	9.13	14.8	2.21	3.74	6.78	10.1	17.3
	16	0.83	1.58	3.02	4.28	6.90	1.30	2.36	4.64	6.50	10.5	1.68	3.07	6.22	8.81	14.5	1.88	3.40	6.45	9.76	17.0
	24	0.33	1.09	2.60	3.86	6.53	0.71	1.81	4.11	5.99	9.97	1.07	2.41	5.55	8.18	13.9	1.25	2.71	5.79	9.05	16.3
9	12	0.87	1.62	3.05	4.30	6.92	1.35	2.40	4.66	6.52	10.5	1.72	3.09	6.17	8.72	14.3	1.92	3.42	6.40	9.64	16.7
	16	0.56	1.31	2.78	4.03	6.68	0.97	2.05	4.32	6.19	10.2	1.33	2.67	5.74	8.31	13.9	1.52	2.98	5.98	9.19	16.3
	24	-	0.69	2.24	3.50	6.21	0.25	1.36	3.66	5.53	9.50	0.58	1.85	4.90	7.51	13.1	0.74	2.14	5.17	8.30	15.4
10	12	0.64	1.38	2.84	4.09	6.72	1.07	2.13	4.38	6.24	10.2	1.42	2.73	5.71	8.23	13.7	1.60	3.05	5.97	9.10	16.0
	16	0.26	1.00	2.50	3.75	6.42	0.62	1.70	3.96	5.82	9.78	0.95	2.23	5.19	7.73	13.2	1.12	2.53	5.47	8.54	15.4
	24	-	0.27 ⁴	1.84	3.09	5.84	-	0.88	3.15	5.02	8.96	0.08 ⁴	1.26	4.19	6.77	12.2	0.20	1.53	4.49	7.47	14.3
12	12	0.14 ³	0.85	2.33	3.57	6.24	0.45 ⁴	1.49	3.68	5.56	9.46	0.76	1.95	4.67	7.07	12.2	0.92	2.24	4.99	7.84	14.2
	16	-	0.34 ³	1.86 ⁴	3.09	5.80	-	0.92 ⁴	3.10	4.96	8.84	0.17 ³	1.28	3.98	6.39	11.5	0.29 ⁴	1.55	4.30	7.08	13.4
	24	-	-	0.98 ³	2.19 ³	4.96	-	-	2.02 ³	3.84 ⁴	7.66	-	0.06 ³	2.70 ⁴	5.11	10.1	-	0.27 ³	3.02 ⁴	5.64	11.9
14	12	-	0.29 ³	1.75 ³	2.95	5.62	-	0.81 ³	2.80 ⁴	4.53	8.45	0.11 ³	1.13 ⁴	3.55	5.75	10.4	0.22 ³	1.39 ⁴	3.92	6.43	12.1
	16	-	-	1.16 ³	2.33 ³	5.03	-	0.14 ³	2.11 ³	3.80 ⁴	7.62	-	0.36 ³	2.74 ³	4.93	9.45	-	0.56 ³	3.09 ⁴	5.50	11.1
	24	-	-	0.10 ²	1.21 ³	3.94 ³	-	-	0.87 ²	2.48 ³	6.11 ³	-	-	1.28 ³	3.44 ³	7.80 ⁴	-	-	1.58 ³	3.80 ³	9.24
16	12	-	-	1.15 ³	2.27 ³	4.89 ⁴	-	0.17 ³	1.93 ³	3.45 ³	6.85	-	0.38 ³	2.47 ³	4.43 ⁴	8.45	-	0.58 ³	2.89 ³	5.02	9.90
	16	-	-	0.47 ²	1.54 ³	4.16 ³	-	-	1.18 ²	2.64 ³	5.92 ³	-	-	1.60 ³	3.52 ³	7.44 ⁴	-	-	1.95 ³	3.98 ³	8.77
	24	-	-	-	0.26 ²	2.86 ³	-	-	-	1.22 ²	4.28 ³	-	-	0.08 ²	1.94 ³	5.64 ³	-	-	0.31 ²	2.14 ³	6.76 ³

40 psf Lateral Load

6" MEMBERS																					
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					600S250				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.98	1.73	3.15	4.40	7.00	1.48	2.53	4.79	6.65	10.6	1.86	3.27	6.41	9.00	14.7	2.07	3.59	6.63	9.96	17.2
	16	0.69	1.44	2.90	4.16	6.79	1.13	2.20	4.48	6.35	10.3	1.51	2.88	6.03	8.63	14.3	1.70	3.20	6.26	9.55	16.8
	24	0.12	0.88	2.41	3.68	6.38	0.46	1.58	3.89	5.77	9.75	0.81	2.13	5.27	7.92	13.6	0.98	2.43	5.52	8.75	16.0
9	12	0.74	1.49	2.93	4.19	6.81	1.19	2.25	4.51	6.38	10.4	1.55	2.91	5.98	8.54	14.1	1.74	3.23	6.22	9.45	16.5
	16	0.38	1.13	2.62	3.88	6.54	0.76	1.85	4.13	6.00	9.97	1.11	2.43	5.49	8.08	13.7	1.29	2.74	5.75	8.93	16.0
	24	0.44	2.01	3.27	6.01	6.01	1.07	3.38	5.26	9.22	0.27	1.51	4.55	7.18	12.7	0.42	1.79	4.83	7.93	15.0	
10	12	0.48	1.22	2.69	3.94	6.59	0.87	1.94	4.20	6.06	10.0	1.21	2.51	5.49	8.01	13.5	1.39	2.83	5.75	8.86	15.7
	16	0.05 ⁴	0.79	2.31	3.56	6.25	0.37	1.46	3.73	5.59	9.54	0.70	1.94	4.90	7.45	12.9	0.85	2.24	5.18	8.23	15.1
	24	-	-	1.57 ⁴	2.82	5.59	-	0.54 ⁴	2.82	4.68	8.61	-	0.87	3.78	6.37	11.8	-	1.12	4.08	7.02	13.8
12	12	-	0.63 ⁴	2.13	3.36	6.05	0.20 ³	1.24	3.43	5.30	9.19	0.50 ⁴	1.66	4.37	6.77	11.9	0.64	1.94	4.69	7.51	13.8
	16	-	0.06 ³	1.60 ⁴	2.82	5.55	-	0.61 ³	2.78 ⁴	4.63	8.49	-	0.92 ⁴	3.60	6.01	11.1	-	1.17	3.93	6.65	12.9
	24	-	-	0.62 ³	1.82 ³	4.61 ⁴	-	-	1.59 ³	3.39 ³	7.17	-	-	2.19 ³	4.60 ⁴	9.52	-	-	2.50 ³	5.06	11.2
14	12	-	0.01 ³	1.50 ³	2.68 ⁴	5.36	-	0.52 ³	2.49 ³	4.21	8.09	-	0.79 ³	3.19 ⁴	5.39	9.97	-	1.03 ⁴	3.56	6.02	11.6
	16	-	-	0.84 ³	2.00 ³	4.71 ⁴	-	-	1.73 ³	3.40 ³	7.17	-	-	2.30 ³	4.48 ⁴	8.96	-	0.12 ³	2.64 ³	4.99 ⁴	10.5
	24	-	-	-	0.77 ²	3.50 ³	-	-	0.38 ²	1.95 ³	5.51 ³	-	-	0.71 ²	2.85 ³	7.15 ³	-	-	0.99 ³	3.14 ³	8.51 ⁴
16	12	-	-	0.85 ²	1.95 ³	4.57 ³	-	-	1.60 ³	3.09 ³	6.44 ⁴	-	0.01 ³	2.09 ³	4.03 ³	8.00	-	0.17 ³	2.47 ³	4.56 ⁴	9.40
	16	-	-	0.10 ²	1.16 ²	3.77 ³	-	-	0.78 ²	2.21 ³	5.42 ³	-	-	1.14 ²	3.04 ³	6.89 ³	-	-	1.45 ³	3.42 ³	8.17 ⁴
	24	-	-	-	-	2.35 ²	-	-	-	0.67 ²	3.64 ²	-	-	-	1.32 ²	4.94 ³	-	-	-	1.43 ²	5.98 ³

COMBINED AXIAL AND LATERAL LOADS

50 psf Lateral Load

6" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S137					600S162					600S200					600S250				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	43	54	68	97	118
8	12	0.76	1.51	2.96	4.22	6.85	1.22	2.28	4.56	6.43	10.4	1.59	2.98	6.12	8.72	14.4	1.79	3.30	6.35	9.65	16.9
	16	0.40	1.16	2.66	3.92	6.58	0.79	1.89	4.18	6.06	10.0	1.16	2.50	5.64	8.27	13.9	1.34	2.81	5.89	9.15	16.4
	24	-	0.47	2.06	3.33	6.07	-	1.12	3.45	5.34	9.32	0.31	1.58	4.71	7.39	13.1	0.46	1.86	4.98	8.16	15.4
9	12	0.47	1.22	2.70	3.95	6.61	0.87	1.95	4.22	6.09	10.1	1.22	2.55	5.61	8.19	13.8	1.40	2.86	5.87	9.06	16.1
	16	0.03 ⁴	0.78	2.31	3.57	6.28	0.35	1.46	3.75	5.62	9.59	0.69	1.97	5.02	7.63	13.2	0.85	2.26	5.29	8.42	15.5
	24	-	-	1.57	2.83	5.62	-	0.52 ⁴	2.83	4.71	8.68	-	0.85	3.87	6.53	12.1	-	1.10	4.16	7.19	14.2
10	12	0.15 ⁴	0.89	2.40	3.65	6.34	0.49	1.58	3.84	5.71	9.66	0.82	2.09	5.05	7.59	13.0	0.99	2.38	5.32	8.39	15.2
	16	-	0.37 ⁴	1.93	3.19	5.92	-	0.99	3.27	5.13	9.07	0.20 ⁴	1.40	4.33	6.90	12.3	0.33	1.67	4.62	7.62	14.4
	24	-	-	1.04 ³	2.29 ⁴	5.11	-	-	2.17 ⁴	4.03	7.94	-	0.10 ⁴	2.99	5.59	10.9	-	0.32 ⁴	3.29	6.15	12.9
12	12	-	0.20 ³	1.73 ⁴	2.95	5.68	-	0.76 ⁴	2.94	4.79	8.66	-	1.10 ⁴	3.79	6.20	11.3	0.12 ³	1.36	4.11	6.86	13.1
	16	-	-	1.10 ³	2.31 ⁴	5.08	-	0.01 ³	2.17 ³	3.99 ⁴	7.82	-	0.23 ³	2.88 ⁴	5.29	10.3	-	0.44 ³	3.20 ⁴	5.84	12.1
	24	-	-	-	1.11 ³	3.95 ³	-	-	0.77 ³	2.52 ³	6.25 ⁴	-	-	1.21 ³	3.62 ³	8.45	-	-	1.51 ³	3.96 ⁴	10.0
14	12	-	-	1.00 ³	2.16 ³	4.87 ⁴	-	-	1.92 ³	3.60 ³	7.39	-	0.15 ³	2.51 ³	4.70 ⁴	9.21	-	0.34 ³	2.86 ⁴	5.24	10.8
	16	-	-	0.24 ²	1.36 ³	4.09 ³	-	-	1.03 ²	2.65 ³	6.32 ³	-	-	1.48 ³	3.64 ³	8.03 ⁴	-	-	1.79 ³	4.03 ³	9.49
	24	-	-	-	-	2.67 ²	-	-	-	0.97 ²	4.39 ³	-	-	-	1.75 ³	5.81 ³	-	-	-	1.88 ³	7.13 ³
16	12	-	-	0.28 ²	1.35 ²	3.96 ³	-	-	0.98 ²	2.42 ³	5.67 ³	-	-	1.37 ³	3.28 ³	7.16 ⁴	-	-	1.70 ³	3.70 ³	8.46 ⁴
	16	-	-	-	0.44 ²	3.03 ²	-	-	0.04 ¹	1.41 ²	4.50 ³	-	-	0.28 ²	2.15 ²	5.88 ³	-	-	0.53 ³	2.39 ³	7.03 ³
	24	-	-	-	-	1.39 ¹	-	-	-	-	2.46 ²	-	-	-	0.18 ¹	3.64 ²	-	-	-	0.11 ²	4.53 ²

5 psf Lateral Load

8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi	50 ksi			33 ksi	50 ksi				33 ksi	50 ksi				33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	2.43	3.57	4.75	7.23	3.35	5.43	7.25	11.3	14.3	4.47	7.74	10.3	16.0	20.5	4.90	8.17	11.8	19.8	25.9
	16	2.40	3.55	4.73	7.21	3.32	5.40	7.22	11.2	14.3	4.44	7.71	10.3	16.0	20.4	4.86	8.14	11.8	19.7	25.8
	24	2.35	3.50	4.68	7.17	3.26	5.35	7.16	11.2	14.3	4.36	7.64	10.2	15.9	20.4	4.79	8.06	11.7	19.7	25.8
9	12	2.41	3.55	4.73	7.21	3.33	5.41	7.22	11.2	14.3	4.44	7.71	10.3	16.0	20.4	4.86	8.10	11.7	19.7	25.7
	16	2.37	3.52	4.70	7.19	3.29	5.37	7.19	11.2	14.3	4.39	7.67	10.2	15.9	20.4	4.81	8.06	11.7	19.6	25.7
	24	2.31	3.47	4.65	7.14	3.21	5.30	7.12	11.1	14.2	4.30	7.57	10.1	15.8	20.3	4.71	7.97	11.6	19.5	25.6
10	12	2.38	3.53	4.71	7.20	3.30	5.38	7.20	11.2	14.3	4.41	7.68	10.2	15.9	20.4	4.80	8.02	11.6	19.5	25.5
	16	2.34	3.50	4.68	7.16	3.25	5.34	7.15	11.2	14.3	4.35	7.62	10.2	15.9	20.4	4.74	7.97	11.6	19.4	25.4
	24	2.26	3.43	4.61	7.10	3.15	5.24	7.06	11.1	14.2	4.23	7.50	10.1	15.8	20.3	4.62	7.85	11.5	19.3	25.3
12	12	2.32	3.48	4.66	7.15	3.22	5.31	7.13	11.2	14.2	4.32	7.59	10.1	15.8	20.3	4.67	7.81	11.4	19.1	24.8
	16	2.26	3.43	4.61	7.10	3.15	5.24	7.06	11.1	14.2	4.23	7.50	10.1	15.8	20.3	4.58	7.73	11.3	19.0	24.8
	24	2.14	3.33	4.52	7.01	3.00	5.11	6.93	11.0	14.1	4.06	7.32	9.90	15.6	20.1	4.40	7.56	11.1	18.8	24.6
14	12	2.25	3.42	4.60	7.09	3.13	5.22	7.04	11.1	14.1	4.16	7.36	9.96	15.7	20.2	4.49	7.52	11.0	18.5	23.9
	16	2.16	3.35	4.53	7.03	3.03	5.13	6.95	11.0	14.1	4.04	7.24	9.84	15.6	20.1	4.36	7.40	10.9	18.3	23.8
	24	2.00	3.21	4.40	6.90	2.83	4.94	6.76	10.8	13.9	3.80	6.99	9.61	15.4	19.9	4.12	7.17	10.6	18.1	23.5
16	12	2.16	3.34	4.53	7.02	3.02	5.11	6.93	10.9	14.0	3.92	6.95	9.45	15.2	19.8	4.26	7.15	10.4	17.5	22.7
	16	2.05	3.25	4.44	6.93	2.89	4.98	6.80	10.8	13.9	3.77	6.78	9.30	15.0	19.6	4.10	6.99	10.3	17.3	22.5
	24	1.83	3.06	4.26	6.75	2.62	4.72	6.54	10.5	13.7	3.46	6.46	9.00	14.7	19.3	3.79	6.69	9.92	17.0	22.1

15 psf Lateral Load

8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	2.27	3.44	4.62	7.12	3.17	5.26	7.08	11.1	14.2	4.25	7.53	10.1	15.8	20.3	4.67	7.96	11.6	19.6	25.6
	16	2.19	3.38	4.56	7.06	3.07	5.18	7.00	11.0	14.1	4.14	7.42	9.99	15.7	20.2	4.56	7.85	11.5	19.4	25.5
	24	2.04	3.25	4.44	6.94	2.89	5.01	6.84	10.9	14.0	3.93	7.21	9.80	15.5	20.0	4.33	7.63	11.2	19.2	25.3
9	12	2.21	3.39	4.57	7.07	3.09	5.19	7.01	11.0	14.1	4.16	7.44	10.0	15.7	20.2	4.57	7.83	11.4	19.4	25.5
	16	2.11	3.31	4.50	6.99	2.97	5.08	6.91	10.9	14.0	4.02	7.30	9.88	15.6	20.1	4.42	7.69	11.3	19.2	25.3
	24	1.91	3.14	4.34	6.85	2.73	4.87	6.69	10.7	13.9	3.74	7.02	9.63	15.4	19.9	4.13	7.42	11.0	18.9	25.0
10	12	2.13	3.33	4.51	7.01	3.00	5.11	6.93	11.0	14.1	4.06	7.33	9.90	15.6	20.1	4.44	7.68	11.3	19.1	25.1
	16	2.01	3.23	4.42	6.92	2.85	4.97	6.80	10.8	13.9	3.88	7.15	9.75	15.5	20.0	4.26	7.51	11.1	19.0	25.0
	24	1.76	3.02	4.23	6.74	2.56	4.70	6.53	10.6	13.7	3.54	6.81	9.43	15.2	19.7	3.91	7.17	10.7	18.6	24.6
12	12	1.96	3.18	4.37	6.88	2.79	4.91	6.73	10.8	13.9	3.80	7.06	9.66	15.4	19.9	4.14	7.30	10.8	18.6	24.3
	16	1.78	3.03	4.23	6.74	2.57	4.71	6.53	10.6	13.7	3.55	6.81	9.42	15.1	19.6	3.88	7.05	10.6	18.3	24.0
	24	1.43	2.74	3.95	6.47	2.15	4.31	6.15	10.2	13.4	3.06	6.30	8.95	14.7	19.2	3.37	6.56	10.0	17.8	23.5
14	12	1.75	3.00	4.20	6.71	2.53	4.65	6.48	10.5	13.6	3.45	6.63	9.27	15.0	19.5	3.77	6.82	10.2	17.7	23.1
	16	1.51	2.80	4.00	6.52	2.24	4.38	6.20	10.2	13.4	3.11	6.28	8.94	14.7	19.2	3.42	6.48	9.85	17.3	22.7
	24	1.04	2.41	3.62	6.14	1.68	3.84	5.66	9.66	12.9	2.46	5.59	8.29	14.1	18.5	2.75	5.82	9.12	16.6	22.0
16	12	1.51	2.79	3.99	6.49	2.23	4.35	6.16	10.2	13.3	3.02	6.00	8.55	14.2	18.8	3.34	6.24	9.42	16.5	21.6
	16	1.20	2.53	3.73	6.24	1.86	3.98	5.80	9.77	13.0	2.59	5.55	8.12	13.8	18.4	2.90	5.81	8.94	16.0	21.1
	24	0.61	2.02	3.22	5.74	1.15	3.29	5.09	9.04	12.3	1.79	4.71	7.30	12.9	17.5	2.06	4.98	8.03	15.0	20.1

COMBINED AXIAL AND LATERAL LOADS

20 psf Lateral Load

8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi							
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	2.19	3.38	4.56	7.06	3.07	5.18	7.00	11.0	14.1	4.14	7.42	9.99	15.7	20.2	4.56	7.85	11.5	19.4	25.5
	16	2.09	3.29	4.48	6.98	2.95	5.07	6.89	10.9	14.0	4.00	7.28	9.86	15.6	20.1	4.41	7.70	11.3	19.3	25.4
	24	1.88	3.12	4.32	6.83	2.70	4.84	6.67	10.7	13.8	3.71	6.99	9.60	15.3	19.8	4.11	7.42	11.0	19.0	25.1
9	12	2.11	3.31	4.50	6.99	2.97	5.08	6.91	10.9	14.0	4.02	7.30	9.88	15.6	20.1	4.42	7.69	11.3	19.2	25.3
	16	1.97	3.20	4.39	6.90	2.81	4.94	6.76	10.8	13.9	3.84	7.11	9.71	15.4	19.9	4.23	7.51	11.1	19.0	25.1
	24	1.71	2.98	4.19	6.70	2.50	4.65	6.48	10.5	13.7	3.47	6.75	9.38	15.1	19.6	3.85	7.14	10.7	18.6	24.7
10	12	2.01	3.23	4.42	6.92	2.85	4.97	6.80	10.8	13.9	3.88	7.15	9.75	15.5	20.0	4.26	7.51	11.1	19.0	25.0
	16	1.85	3.09	4.29	6.80	2.66	4.79	6.62	10.7	13.8	3.65	6.93	9.54	15.3	19.8	4.02	7.28	10.8	18.7	24.7
	24	1.52	2.83	4.03	6.55	2.27	4.43	6.27	10.3	13.5	3.20	6.47	9.12	14.9	19.4	3.55	6.83	10.4	18.2	24.2
12	12	1.78	3.03	4.23	6.74	2.57	4.71	6.53	10.6	13.7	3.55	6.81	9.42	15.1	19.6	3.88	7.05	10.6	18.3	24.0
	16	1.55	2.84	4.04	6.56	2.29	4.44	6.27	10.3	13.5	3.22	6.47	9.11	14.8	19.3	3.54	6.73	10.2	17.9	23.7
	24	1.09	2.46	3.67	6.20	1.74	3.93	5.76	9.78	13.0	2.57	5.81	8.49	14.2	18.7	2.88	6.08	9.50	17.2	22.9
14	12	1.51	2.80	4.00	6.52	2.24	4.38	6.20	10.2	13.4	3.11	6.28	8.94	14.7	19.2	3.42	6.48	9.85	17.3	22.7
	16	1.20	2.54	3.74	6.26	1.86	4.02	5.84	9.84	13.1	2.67	5.82	8.50	14.3	18.8	2.97	6.04	9.36	16.8	22.2
	24	0.59	2.02	3.24	5.77	1.14	3.32	5.14	9.13	12.4	1.83	4.94	7.66	13.4	17.9	2.10	5.18	8.42	15.8	21.2
16	12	1.20	2.53	3.73	6.24	1.86	3.98	5.80	9.77	13.0	2.59	5.55	8.12	13.8	18.4	2.90	5.81	8.94	16.0	21.1
	16	0.81	2.18	3.39	5.90	1.38	3.52	5.32	9.28	12.5	2.05	4.98	7.57	13.2	17.8	2.34	5.25	8.33	15.3	20.4
	24	0.06 ³	1.53 ⁴	2.74	5.25	0.49 ⁴	2.63	4.42	8.33	11.7	1.03	3.91	6.52	12.1	16.6	1.28	4.19	7.15	14.1	19.1

25 psf Lateral Load

8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi							
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	2.11	3.31	4.50	7.00	2.98	5.09	6.92	10.9	14.1	4.03	7.31	9.89	15.6	20.1	4.45	7.74	11.3	19.3	25.4
	16	1.98	3.21	4.40	6.91	2.82	4.95	6.78	10.8	13.9	3.85	7.14	9.73	15.5	20.0	4.26	7.56	11.2	19.1	25.2
	24	1.73	3.00	4.20	6.71	2.52	4.67	6.51	10.5	13.7	3.49	6.78	9.41	15.1	19.7	3.88	7.21	10.8	18.8	24.9
9	12	2.01	3.22	4.42	6.92	2.85	4.97	6.80	10.8	14.0	3.88	7.16	9.75	15.5	20.0	4.28	7.55	11.1	19.1	25.2
	16	1.84	3.09	4.29	6.80	2.65	4.79	6.62	10.7	13.8	3.65	6.93	9.54	15.3	19.8	4.04	7.33	10.9	18.8	24.9
	24	1.52	2.82	4.03	6.55	2.26	4.44	6.28	10.3	13.5	3.20	6.48	9.13	14.9	19.4	3.56	6.87	10.4	18.4	24.4
10	12	1.89	3.13	4.32	6.83	2.70	4.84	6.67	10.7	13.8	3.71	6.98	9.59	15.3	19.8	4.08	7.34	10.9	18.8	24.8
	16	1.68	2.96	4.16	6.68	2.46	4.61	6.45	10.5	13.6	3.42	6.70	9.33	15.1	19.6	3.79	7.05	10.6	18.5	24.5
	24	1.28	2.63	3.84	6.37	1.98	4.17	6.01	10.0	13.3	2.86	6.13	8.81	14.6	19.1	3.21	6.49	9.99	17.9	23.9
12	12	1.60	2.89	4.09	6.60	2.36	4.51	6.34	10.4	13.5	3.30	6.55	9.19	14.9	19.4	3.63	6.81	10.3	18.0	23.7
	16	1.32	2.65	3.86	6.38	2.01	4.18	6.02	10.0	13.2	2.89	6.13	8.80	14.5	19.0	3.21	6.40	9.85	17.6	23.3
	24	0.75	2.17	3.40	5.94	1.34	3.55	5.39	9.40	12.7	2.10	5.32	8.04	13.8	18.3	2.39	5.60	8.99	16.7	22.4
14	12	1.27	2.60	3.81	6.33	1.96	4.11	5.93	9.93	13.1	2.78	5.93	8.61	14.4	18.9	3.08	6.15	9.48	16.9	22.3
	16	0.89	2.28	3.49	6.01	1.50	3.66	5.49	9.48	12.7	2.24	5.37	8.08	13.8	18.3	2.53	5.61	8.89	16.3	21.7
	24	0.16 ⁴	1.64	2.87	5.40	0.62	2.81	4.63	8.60	11.9	1.22	4.30	7.05	12.8	17.2	1.48	4.57	7.74	15.1	20.5
16	12	0.90	2.27	3.47	5.99	1.50	3.63	5.44	9.40	12.7	2.19	5.12	7.71	13.3	17.9	2.47	5.39	8.48	15.5	20.6
	16	0.43 ⁴	1.85	3.06	5.58	0.93	3.07	4.86	8.80	12.1	1.53	4.43	7.04	12.6	17.2	1.80	4.71	7.73	14.7	19.8
	24	-	1.06 ³	2.27 ⁴	4.78	-	2.01 ⁴	3.78	7.65	11.0	0.32 ³	3.15	5.77	11.3	15.8	0.53 ⁴	3.44	6.32	13.2	18.2

30 psf Lateral Load

8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi							
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	2.04	3.25	4.44	6.94	2.89	5.01	6.84	10.9	14.0	3.93	7.21	9.80	15.5	20.0	4.33	7.63	11.2	19.2	25.3
	16	1.88	3.12	4.32	6.83	2.70	4.84	6.67	10.7	13.8	3.71	6.99	9.60	15.3	19.8	4.11	7.42	11.0	19.0	25.1
	24	1.57	2.87	4.08	6.60	2.33	4.50	6.34	10.4	13.6	3.28	6.57	9.22	15.0	19.5	3.66	6.99	10.6	18.5	24.6
9	12	1.91	3.14	4.34	6.85	2.73	4.87	6.69	10.7	13.9	3.74	7.02	9.63	15.4	19.9	4.13	7.42	11.0	18.9	25.0
	16	1.71	2.98	4.19	6.70	2.50	4.65	6.48	10.5	13.7	3.47	6.75	9.38	15.1	19.6	3.85	7.14	10.7	18.6	24.7
	24	1.32	2.66	3.88	6.41	2.03	4.22	6.07	10.1	13.3	2.93	6.21	8.88	14.6	19.1	3.28	6.60	10.1	18.1	24.2
10	12	1.76	3.02	4.23	6.74	2.56	4.70	6.53	10.6	13.7	3.54	6.81	9.43	15.2	19.7	3.91	7.17	10.7	18.6	24.6
	16	1.52	2.83	4.03	6.55	2.27	4.43	6.27	10.3	13.5	3.20	6.47	9.12	14.9	19.4	3.55	6.83	10.4	18.2	24.2
	24	1.05	2.43	3.65	6.19	1.70	3.91	5.75	9.79	13.0	2.53	5.80	8.50	14.3	18.8	2.86	6.16	9.64	17.5	23.5
12	12	1.43	2.74	3.95	6.47	2.15	4.31	6.15	10.2	13.4	3.06	6.30	8.95	14.7	19.2	3.37	6.56	10.0	17.8	23.5
	16	1.09	2.46	3.67	6.20	1.74	3.93	5.76	9.78	13.0	2.57	5.81	8.49	14.2	18.7	2.88	6.08	9.50	17.2	22.9
	24	0.42	1.90	3.13	5.67	0.95	3.17	5.01	9.03	12.3	1.64	4.85	7.59	13.3	17.8	1.91	5.14	8.48	16.2	21.9
14	12	1.04	2.41	3.62	6.14	1.68	3.84	5.66	9.66	12.9	2.46	5.59	8.29	14.1	18.5	2.75	5.82	9.12	16.6	22.0
	16	0.59	2.02	3.24	5.77	1.14	3.32	5.14	9.13	12.4	1.83	4.94	7.66	13.4	17.9	2.10	5.18	8.42	15.8	21.2
	24	-	1.28 ⁴	2.50	5.05	0.1 ⁴	2.33	4.14	8.09	11.5	0.64	3.69	6.45	12.2	16.6	0.87	3.96	7.07	14.4	19.8
16	12	0.61	2.02	3.22	5.74	1.15	3.29	5.09	9.04	12.3	1.79	4.71	7.30	12.9	17.5	2.06	4.98	8.03	15.0	20.1
	16	0.06 ³	1.53 ⁴	2.74	5.25	0.49 ⁴	2.63	4.42	8.33	11.7	1.03	3.91	6.52	12.1	16.6	1.28	4.19	7.15	14.1	19.1
	24	-	0.61 ³	1.81 ³	4.32	-	1.41 ³	3.16 ⁴	7.00	10.4	-	2.43 ⁴	5.06	10.5	14.9	-	2.73 ⁴	5.52	12.3	17.3

COMBINED AXIAL AND LATERAL LOADS

35 psf Lateral Load

8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	1.96	3.19	4.38	6.89	2.79	4.92	6.75	10.8	13.9	3.82	7.10	9.70	15.4	19.9	4.22	7.53	11.1	19.1	25.2
	16	1.78	3.04	4.24	6.75	2.58	4.73	6.56	10.6	13.7	3.57	6.85	9.47	15.2	19.7	3.96	7.28	10.9	18.8	24.9
	24	1.42	2.75	3.96	6.49	2.15	4.34	6.18	10.2	13.4	3.07	6.36	9.02	14.8	19.3	3.44	6.78	10.3	18.3	24.4
9	12	1.81	3.06	4.26	6.77	2.61	4.76	6.59	10.6	13.8	3.61	6.89	9.50	15.2	19.7	3.99	7.28	10.9	18.8	24.9
	16	1.58	2.88	4.08	6.60	2.34	4.51	6.35	10.4	13.6	3.29	6.57	9.21	15.0	19.5	3.66	6.96	10.5	18.5	24.5
	24	1.13	2.51	3.73	6.26	1.80	4.01	5.86	9.90	13.1	2.66	5.94	8.64	14.4	18.9	3.00	6.34	9.84	17.8	23.9
10	12	1.64	2.93	4.13	6.64	2.41	4.57	6.40	10.4	13.6	3.37	6.64	9.27	15.0	19.5	3.73	7.00	10.5	18.4	24.4
	16	1.36	2.69	3.91	6.43	2.08	4.26	6.10	10.1	13.3	2.97	6.25	8.91	14.7	19.2	3.32	6.61	10.1	18.0	24.0
	24	0.81	2.24	3.47	6.01	1.42	3.65	5.50	9.53	12.8	2.20	5.47	8.19	14.0	18.5	2.52	5.83	9.28	17.2	23.2
12	12	1.26	2.60	3.81	6.34	1.95	4.12	5.95	9.97	13.2	2.81	6.05	8.72	14.5	19.0	3.12	6.32	9.77	17.5	23.2
	16	0.86	2.27	3.49	6.02	1.47	3.67	5.51	9.53	12.8	2.26	5.48	8.19	13.9	18.4	2.55	5.76	9.16	16.9	22.6
	24	0.10	1.62	2.86	5.41	0.56	2.81	4.65	8.65	12.0	1.19	4.38	7.15	12.9	17.4	1.45	4.68	7.98	15.7	21.4
14	12	0.82	2.21	3.43	5.95	1.41	3.58	5.40	9.39	12.7	2.14	5.26	7.97	13.7	18.2	2.42	5.50	8.77	16.2	21.6
	16	0.30 ^d	1.77	2.99	5.53	0.79	2.98	4.80	8.78	12.1	1.42	4.51	7.25	13.0	17.5	1.68	4.77	7.96	15.4	20.7
	24	-	0.92 ^d	2.15	4.69	-	1.85 ^d	3.66	7.59	11.0	0.08 ^d	3.10	5.87	11.6	16.0	0.29 ^d	3.38	6.42	13.8	19.1
16	12	0.33 ^d	1.77	2.98	5.49	0.82 ^d	2.96	4.75	8.68	12.0	1.41	4.30	6.90	12.5	17.0	1.67	4.58	7.58	14.5	19.6
	16	-	1.21 ^d	2.42	4.94	0.07 ^d	2.21 ^d	3.99	7.88	11.3	0.56 ^d	3.40	6.02	11.6	16.0	0.78 ^d	3.69	6.59	13.5	18.5
	24	-	0.18 ^d	1.37 ^d	3.87 ^d	-	0.84 ^d	2.57 ^d	6.36	9.83	-	1.75 ^d	4.37 ^d	9.79	14.2	-	2.04 ^d	4.75 ^d	11.5	16.5

40 psf Lateral Load

8" MEMBERS

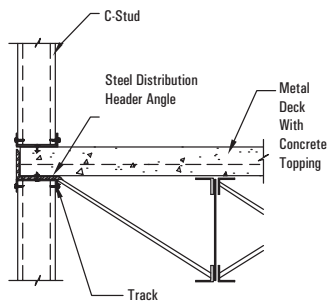
WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	1.88	3.12	4.32	6.83	2.70	4.84	6.67	10.7	13.8	3.71	6.99	9.60	15.3	19.8	4.11	7.42	11.0	19.0	25.1
	16	1.67	2.96	4.16	6.68	2.46	4.62	6.45	10.5	13.7	3.42	6.71	9.34	15.1	19.6	3.81	7.13	10.7	18.7	24.8
	24	1.27	2.62	3.84	6.37	1.97	4.17	6.02	10.1	13.3	2.85	6.15	8.83	14.6	19.1	3.22	6.57	10.1	18.1	24.2
9	12	1.71	2.98	4.19	6.70	2.50	4.65	6.48	10.5	13.7	3.47	6.75	9.38	15.1	19.6	3.85	7.14	10.7	18.6	24.7
	16	1.45	2.77	3.98	6.51	2.19	4.37	6.21	10.2	13.4	3.11	6.39	9.05	14.8	19.3	3.47	6.78	10.3	18.3	24.4
	24	0.94	2.35	3.58	6.12	1.58	3.80	5.65	9.69	13.0	2.39	5.67	8.39	14.2	18.7	2.73	6.07	9.55	17.5	23.6
10	12	1.52	2.83	4.03	6.55	2.27	4.43	6.27	10.3	13.5	3.20	6.47	9.12	14.9	19.4	3.55	6.83	10.4	18.2	24.2
	16	1.20	2.56	3.78	6.31	1.89	4.08	5.93	9.96	13.2	2.75	6.02	8.71	14.5	19.0	3.09	6.38	9.87	17.8	23.8
	24	0.58	2.04	3.28	5.83	1.14	3.39	5.24	9.28	12.6	1.88	5.14	7.89	13.7	18.2	2.18	5.51	8.93	16.8	22.8
12	12	1.09	2.46	3.67	6.20	1.74	3.93	5.76	9.78	13.0	2.57	5.81	8.49	14.2	18.7	2.88	6.08	9.50	17.2	22.9
	16	0.64	2.08	3.31	5.85	1.21	3.42	5.26	9.28	12.6	1.94	5.16	7.89	13.6	18.1	2.23	5.45	8.82	16.5	22.2
	24	-	1.35	2.59	5.15	0.18	2.44	4.29	8.29	11.7	0.74	3.92	6.72	12.5	17.0	0.99	4.23	7.48	15.2	20.8
14	12	0.59	2.02	3.24	5.77	1.14	3.32	5.14	9.13	12.4	1.83	4.94	7.66	13.4	17.9	2.10	5.18	8.42	15.8	21.2
	16	0.02 ^d	1.52	2.75	5.28	0.45 ^d	2.65	4.47	8.43	11.8	1.03	4.10	6.85	12.6	17.0	1.27	4.36	7.51	14.9	20.3
	24	-	0.57 ^d	1.80 ^d	4.35	-	1.39 ^d	3.18	7.09	10.6	-	2.52 ^d	5.31	11.0	15.4	-	2.81	5.79	13.1	18.4
16	12	0.06 ^d	1.53 ^d	2.74	5.25	0.49 ^d	2.63	4.42	8.33	11.7	1.03	3.91	6.52	12.1	16.6	1.28	4.19	7.15	14.1	19.1
	16	-	0.91 ^d	2.11 ^d	4.63	-	1.81 ^d	3.57	7.43	10.8	0.09 ^d	2.91 ^d	5.53	11.0	15.5	0.29 ^d	3.20	6.05	12.9	17.9
	24	-	-	0.94 ^d	3.43 ^d	-	0.29 ^d	2.00 ^d	5.75 ^d	9.25	-	1.09 ^d	3.71 ^d	9.07	13.4	-	1.38 ^d	4.01 ^d	10.7	15.6

50 psf Lateral Load

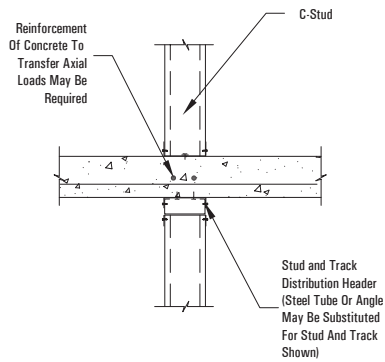
8" MEMBERS

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	800S137				800S162					800S200					800S250				
		33 ksi		50 ksi		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		43	54	68	97	43	54	68	97	118	43	54	68	97	118	43	54	68	97	118
8	12	1.73	3.00	4.20	6.71	2.52	4.67	6.51	10.5	13.7	3.49	6.78	9.41	15.1	19.7	3.88	7.21	10.8	18.8	24.9
	16	1.47	2.79	4.00	6.52	2.21	4.39	6.24	10.3	13.5	3.14	6.43	9.09	14.8	19.3	3.51	6.85	10.4	18.4	24.5
	24	0.96	2.37	3.60	6.15	1.61	3.84	5.70	9.74	13.0	2.43	5.73	8.45	14.2	18.7	2.78	6.15	9.65	17.7	23.8
9	12	1.52	2.82	4.03	6.55	2.26	4.44	6.28	10.3	13.5	3.20	6.48	9.13	14.9	19.4	3.56	6.87	10.4	18.4	24.4
	16	1.19	2.56	3.78	6.31	1.88	4.08	5.93	9.97	13.2	2.75	6.03	8.72	14.5	19.0	3.10	6.42	9.93	17.9	24.0
	24	0.56	2.04	3.27	5.83	1.12	3.38	5.24	9.29	12.6	1.86	5.15	7.90	13.7	18.2	2.18	5.54	8.99	17.0	23.0
10	12	1.28	2.63	3.84	6.37	1.98	4.17	6.01	10.0	13.3	2.86	6.13	8.81	14.6	19.1	3.21	6.49	9.99	17.9	23.9
	16	0.89	2.30	3.53	6.07	1.51	3.73	5.58	9.62	12.9	2.31	5.58	8.30	14.1	18.6	2.63	5.94	9.40	17.3	23.3
	24	0.12	1.66	2.91	5.47	0.60	2.88	4.74	8.77	12.1	1.24	4.50	7.29	13.1	17.6	1.52	4.86	8.24	16.1	22.1
12	12	0.75	2.17	3.40	5.94	1.34	3.55	5.39	9.40	12.7	2.10	5.32	8.04	13.8	18.3	2.39	5.60	8.99	16.7	22.4
	16	0.21	1.71	2.95	5.50	0.69	2.93	4.77	8.78	12.1	1.34	4.53	7.30	13.0	17.5	1.60	4.83	8.14	15.8	21.5
	24	-	0.82 ^a	2.07	4.64	-	1.74	3.58	7.56	11.0	-	3.03	5.87	11.6	16.1	0.10	3.34	6.51	14.2	19.8
14	12	0.16 ^a	1.64	2.87	5.40	0.62	2.81	4.63	8.60	11.9	1.22	4.30	7.05	12.8	17.2	1.48	4.57	7.74	15.1	20.5
	16	-	1.04 ^a	2.27	4.81	-	2.01 ^a	3.82	7.75	11.2	0.26 ^a	3.29	6.07	11.8	16.2	0.48	3.57	6.64	14.0	19.3
	24	-	-	1.12 ^b	3.67	-	0.50 ^b	2.27 ^b	6.13	9.68	-	1.41 ^b	4.22 ^a	9.9	14.2	-	1.71 ^b	4.57	11.8	17.1
16	12	-	1.06 ^b	2.27 ^a	4.78	-	2.01 ^a	3.78	7.65	11.0	0.32 ^b	3.15	5.77	11.3	15.8	0.53 ^a	3.44	6.32	13.2	18.2
	16	-	0.32 ^b	1.52 ^b	4.02	-	1.03 ^b	2.76 ^b	6.57	10.0	-	1.97 ^b	4.60 ^a	10.0	14.4	-	2.27 ^b	5.00	11.8	16.8
	24	-	-	0.12 ^c	2.59	-	-	0.90 ^b	4.56 ^b	8.14 ^a	-	-	2.45 ^b	7.70 ^a	12.0	-	0.12 ^a	2.59 ^b	9.17 ^a	14.0

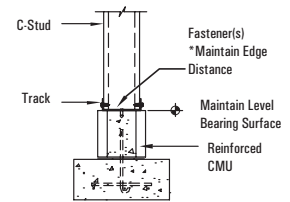
COMBINED AXIAL AND LATERAL LOAD ILLUSTRATIONS



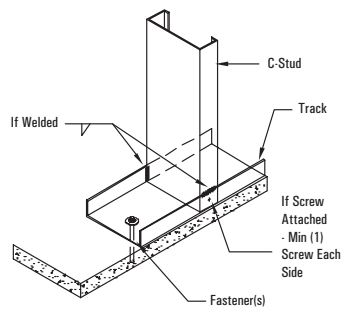
EXTERIOR WALL



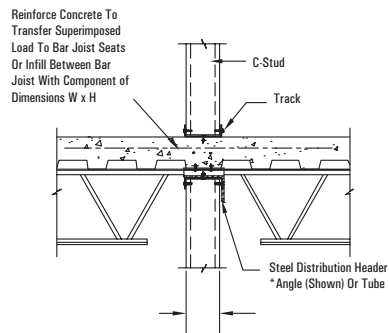
INTERIOR WALL



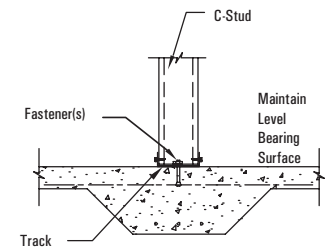
EXTERIOR FOUNDATION



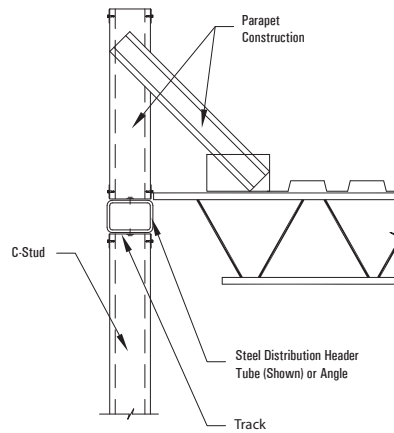
STUD TO TRACK



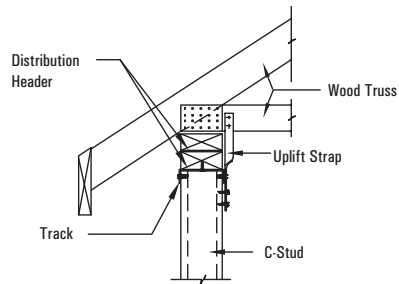
INTERIOR WALL W/ BAR JOIST



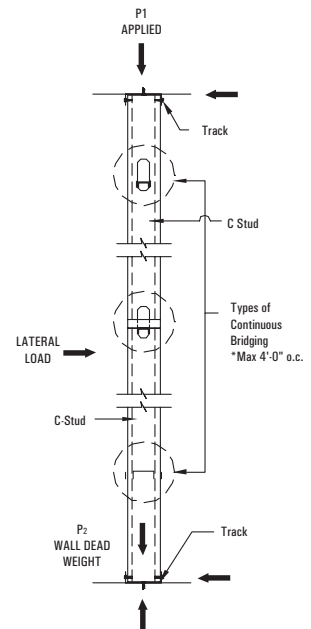
INTERIOR FOOTING



EXTERIOR WALL W/ BAR JOIST



WOOD TRUSS @ EXTERIOR WALL

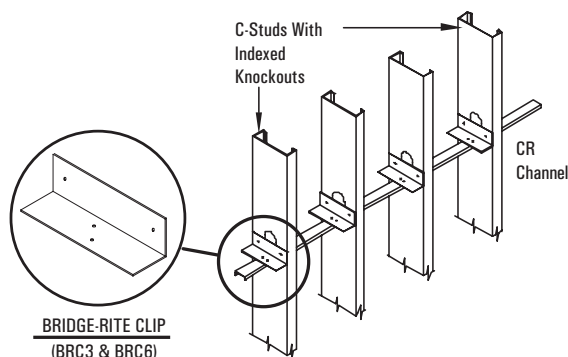
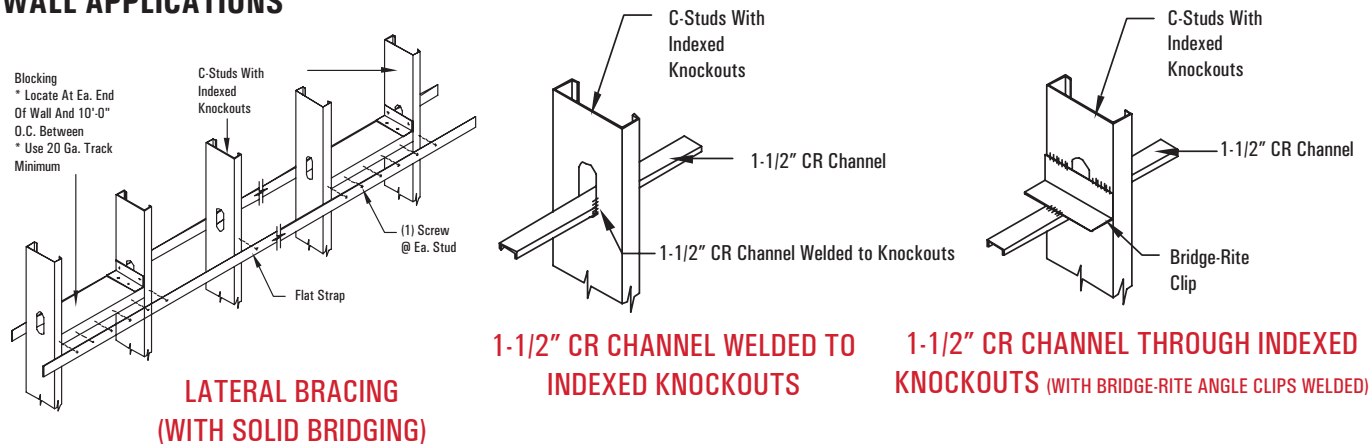


BEARING WALL SCHEMATIC

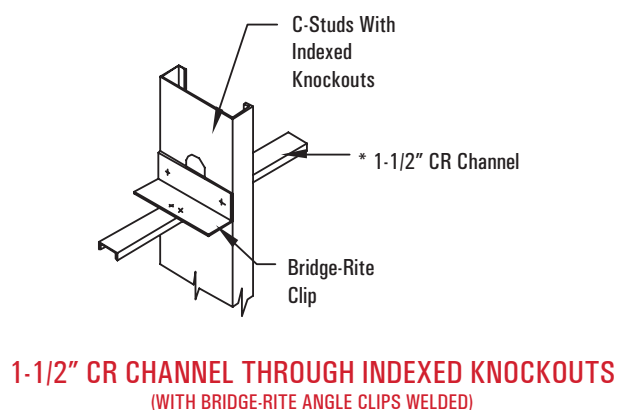
$$P_{\text{DESIGN}} = P_1 + P_2$$

MECHANICAL BRIDGING

WALL APPLICATIONS



LATERAL BRACING (WITH CR CHANNEL)

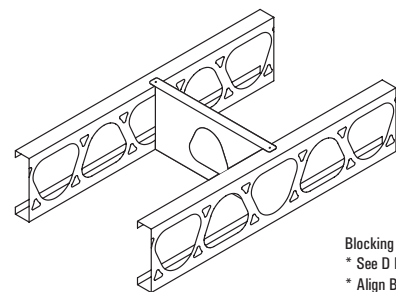


1-1/2" CR CHANNEL THROUGH INDEXED KNOCKOUTS (WITH BRIDGE-RITE ANGLE CLIPS WELDED)

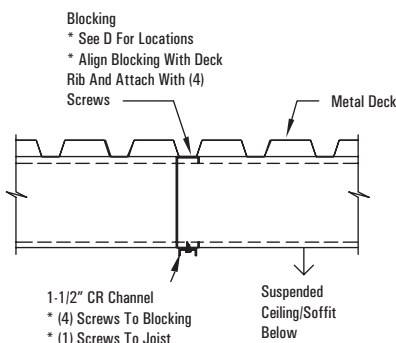
FLOOR & ROOF APPLICATIONS

SOLID BLOCKING (JB)

Joist Blocking is pre-cut to fit securely between joists to prevent joist rotation. Joist Blocking is a one piece system in lieu of the typical 3 piece detail offering an economical alternative to installing conventional clips and solid web members.



MATERIAL: 16 ga (54 mil) 50ksi
FINISH: Galvanized -G90

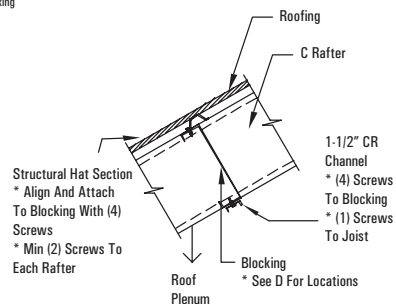
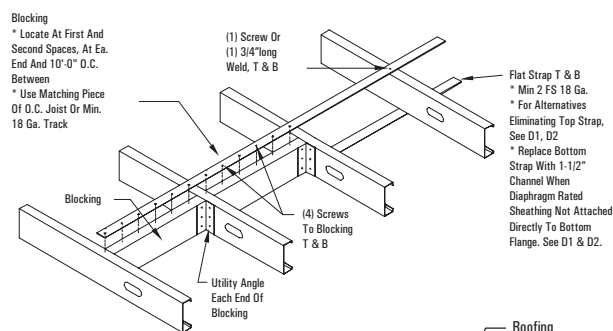


D1-SUBSTITUTE METAL DECK

FLAT STRAP & BLOCKING (D1 & D2)

Blocking

- Locate at first and second spaces at ea. end and 10'-0" o.c.
- Use Matching Piece of o.c. Joist or min. 18 Ga. Track

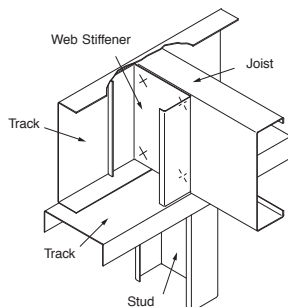


D2-SUBSTITUTE CHANNEL

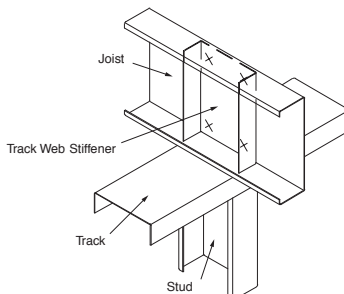
FLOOR JOIST ILLUSTRATIONS

NOTES:

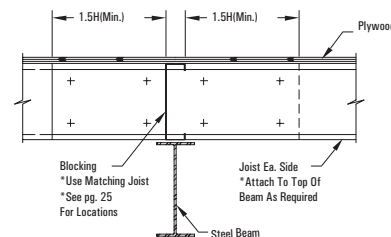
1. Spans are based on continuous support of the compression flange over the full length of the joist and the tension flange is laterally braced at maximum spacing of 8'-0".
2. For two equal spans, the listed span is the distance from either end to the center support, with the joist continuous over the center support.
3. Joists must be braced against rotation at all supports.
4. End shear and web crippling capacity have not been reduced for punchouts.
5. End web crippling check is based on a 3.5" bearing length.
Where allowable spans are followed by "e", web stiffeners are required at end supports.
6. Interior support not checked for combined bending and web crippling. Web stiffeners are required at interior supports.
7. Shear capacity at interior support has been reduced for the presence of punchouts adjacent to the supports.
Combined bending and shear check is based on unreinforced web based on AISI S100 (C3.3.1).
8. Total load deflection is limited to $L/240$. Live load deflection limit is as noted.
9. Alternate span live loading has been considered for two equal span conditions.
10. Bearing stiffeners must be designed in accordance with AISI S100 section C3.7.
11. See General Notes on Page 6.



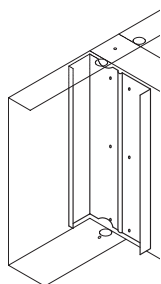
**WEB STIFFENER:
STUD SEGMENT ON BACK OF JOIST**



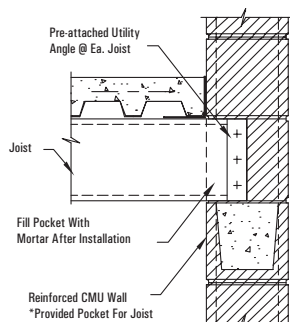
**WEB STIFFENER:
TRACK INSIDE JOIST**



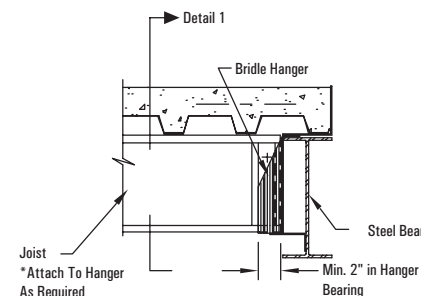
LAPPED JOIST @ INTERIOR SUPPORT



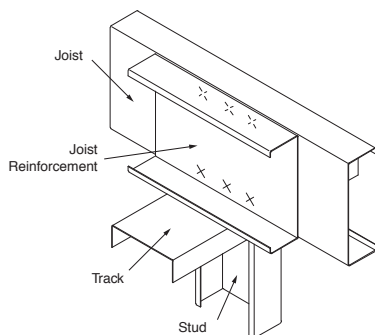
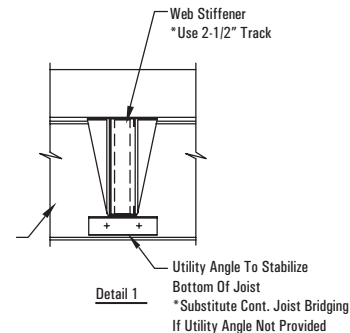
WEB STIFFENER: (JS)



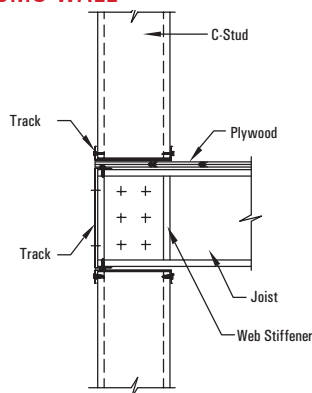
JOIST @ REINFORCED CMU WALL



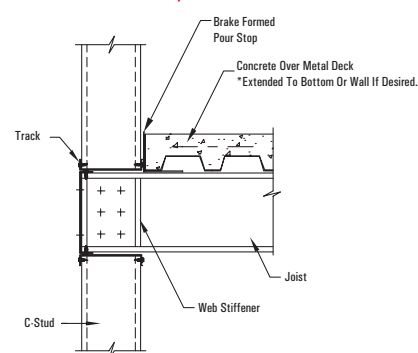
JOIST @ STEEL BEAM W/BRIDLE HANGER



**WEB STIFFENER: DOUBLE WEB
(USE BACK-TO-BACK WEB CRIPPLING TABLES)**



JOIST @ EXTERIOR BEARING WALL



JOIST @ EXTERIOR BEARING WALL

BRIDGING RECOMMENDATIONS:

Bracing components shall be designed based on AISI S100 (D3) and the minimum number of rows required as shown in table. Additional bridging rows may be required by design.

SPAN (ft)	MINIMUM NUMBER OF ROWS
Up To 16 ft	1 at Mid-span
16 ft To 24 ft	2 Rows at 1/3 Points
24 ft To 32 ft	3 Rows at 1/4 Points

FLOOR JOIST SPANS

10 psf Dead Load and 20 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	13' 6"	11' 8"	9' 6"	13' 6"	11' 7"	9' 2"	13' 6"	11' 8"	9' 6"	13' 6"	11' 7"	9' 2"
600S137-43	33	16' 2"	14' 0"	11' 6"	16' 2"	14' 0"	11' 6"	15' 0"	13' 7"	11' 6"	16' 2"	14' 0"	11' 6"
600S137-43 (50)	50	16' 4"	14' 10"	13' 0"	18' 4"	16' 1"	13' 1"	14' 10"	13' 6"	11' 9"	16' 8"	15' 2"	13' 1"
600S137-54	50	17' 8"	16' 0"	14' 0"	19' 9"	18' 0"	15' 4"	16' 0"	14' 7"	12' 8"	18' 0"	16' 4"	14' 3"
600S137-68	50	18' 10"	17' 2"	15' 0"	21' 2"	19' 3"	16' 9"	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	15' 3"
600S137-97	50	20' 10"	19' 0"	16' 7"	23' 6"	21' 3"	18' 7"	19' 0"	17' 3"	15' 1"	21' 3"	19' 4"	16' 10"
600S162-33	33	14' 6"	12' 7"	10' 3"	14' 6"	12' 7"	10' 1"	14' 3"	12' 7"	10' 3"	14' 6"	12' 7"	10' 1"
600S162-43	33	17' 2"	15' 6"	12' 8"	17' 10"	15' 6"	12' 8"	15' 7"	14' 2"	12' 4"	17' 6"	15' 6"	12' 8"
600S162-43 (50)	50	17' 2"	15' 7"	13' 7"	19' 3"	17' 2"	14' 1"	15' 7"	14' 2"	12' 4"	17' 6"	15' 10"	13' 10"
600S162-54	50	18' 4"	16' 8"	14' 7"	20' 8"	18' 9"	16' 4"	16' 8"	15' 2"	13' 3"	18' 9"	17' 1"	14' 10"
600S162-68	50	19' 8"	17' 10"	15' 8"	22' 2"	20' 1"	17' 7"	17' 10"	16' 3"	14' 2"	20' 1"	18' 3"	16' 0"
600S162-97	50	21' 10"	19' 10"	17' 4"	24' 7"	22' 3"	19' 6"	19' 10"	18' 1"	15' 9"	22' 3"	20' 3"	17' 8"
600S162-118	50	23' 1"	21' 0"	18' 3"	25' 10"	23' 7"	20' 7"	21' 0"	19' 1"	16' 8"	23' 7"	21' 4"	18' 8"
600S200-33	33	15' 6"	13' 4"	10' 10"	15' 6"	13' 2"	10' 4"	15' 0"	13' 4"	10' 10"	15' 6"	13' 2"	10' 4"
600S200-43	33	18' 0"	16' 0"	13' 1"	18' 6"	16' 0"	13' 1"	16' 4"	14' 10"	13' 0"	18' 4"	16' 0"	13' 1"
600S200-43 (50)	50	18' 0"	16' 4"	14' 3"	20' 2"	18' 3"	15' 0"	16' 4"	14' 10"	13' 0"	18' 4"	16' 8"	14' 7"
600S200-54	50	19' 4"	17' 7"	15' 4"	21' 8"	19' 8"	17' 2"	17' 7"	16' 0"	14' 0"	19' 8"	17' 10"	15' 8"
600S200-68	50	20' 9"	18' 10"	16' 6"	23' 3"	21' 2"	18' 6"	18' 10"	17' 1"	15' 0"	21' 2"	19' 2"	16' 9"
600S200-97	50	23' 1"	21' 0"	18' 3"	25' 10"	23' 6"	20' 6"	21' 0"	19' 0"	16' 7"	23' 6"	21' 4"	18' 8"
600S200-118	50	24' 4"	22' 2"	19' 4"	27' 4"	24' 10"	21' 8"	22' 2"	20' 1"	17' 7"	24' 10"	22' 7"	19' 8"
600S250-43	33	18' 10"	16' 4"	13' 4"	19' 0"	16' 4"	13' 4"	17' 2"	15' 7"	13' 4"	19' 0"	16' 4"	13' 4"
600S250-43 (50)	50	18' 7"	16' 10"	14' 9"	20' 10"	18' 8"	15' 3"	16' 10"	15' 4"	13' 4"	19' 0"	17' 3"	15' 1"
600S250-54	50	20' 2"	18' 3"	16' 0"	22' 8"	20' 7"	17' 10"	18' 3"	16' 8"	14' 7"	20' 7"	18' 8"	16' 3"
600S250-68	50	21' 9"	19' 9"	17' 3"	24' 4"	22' 2"	19' 4"	19' 9"	18' 0"	15' 8"	22' 2"	20' 2"	17' 7"
600S250-97	50	24' 2"	22' 0"	19' 2"	27' 2"	24' 8"	21' 7"	22' 0"	20' 0"	17' 6"	24' 8"	22' 4"	19' 7"
600S250-118	50	25' 7"	23' 3"	20' 4"	28' 9"	26' 1"	22' 9"	23' 3"	21' 2"	18' 6"	26' 1"	23' 9"	20' 9"
600S300-54	50	20' 7"	18' 8"	16' 4"	23' 2"	21' 0"	18' 1"	18' 8"	17' 0"	14' 10"	21' 0"	19' 1"	16' 8"
600S300-68	50	22' 6"	20' 4"	17' 9"	25' 2"	22' 10"	20' 0"	20' 4"	18' 7"	16' 2"	22' 10"	20' 9"	18' 2"
600S300-97	50	25' 2"	22' 10"	20' 0"	28' 3"	25' 8"	22' 4"	22' 10"	20' 9"	18' 2"	25' 8"	23' 3"	20' 4"
600S300-118	50	26' 9"	24' 3"	21' 3"	30' 1"	27' 3"	23' 10"	24' 3"	22' 1"	19' 3"	27' 3"	24' 9"	21' 8"
800S137-33	33	15' 4"	13' 4"	10' 10"	14' 10"	12' 4"	9' 6"	15' 4"	13' 4"	10' 10"	14' 10"	12' 4"	9' 6"
800S137-43	33	18' 8"	16' 2"	13' 2"	18' 8"	16' 2"	13' 2"	18' 8"	16' 2"	13' 2"	18' 8"	16' 2"	13' 2"
800S137-43 (50)	50	20' 4"	18' 6"	15' 1"	21' 3"	18' 6"	15' 0"	18' 7"	16' 10"	14' 8"	20' 10"	18' 6"	15' 0"
800S137-54	50	22' 2"	20' 1"	17' 7"	24' 10"	21' 9"	17' 9"	20' 1"	18' 3"	16' 0"	22' 7"	20' 6"	17' 9"
800S137-68	50	24' 0"	21' 9"	19' 0"	26' 10"	24' 4"	21' 0"	21' 9"	19' 9"	17' 3"	24' 4"	22' 2"	19' 4"
800S137-97	50	26' 7"	24' 2"	21' 1"	29' 9"	27' 1"	23' 8"	24' 2"	21' 10"	19' 2"	27' 1"	24' 7"	21' 6"
800S162-33	33	16' 8"	14' 6"	11' 9"	15' 7"	13' 0"	9' 10"	16' 8"	14' 6"	11' 9"	15' 7"	13' 0"	9' 10"
800S162-43	33	20' 2"	17' 6"	14' 3"	20' 2"	17' 6"	13' 10"	19' 6"	17' 6"	14' 3"	20' 2"	17' 6"	13' 10"
800S162-43 (50)	50	21' 3"	19' 3"	16' 3"	22' 10"	19' 7"	15' 6"	19' 3"	17' 7"	15' 4"	21' 8"	19' 7"	15' 6"
800S162-54	50	23' 1"	20' 10"	18' 3"	25' 10"	23' 4"	19' 1"	20' 10"	19' 0"	16' 7"	23' 6"	21' 4"	18' 8"
800S162-68	50	24' 10"	22' 7"	19' 9"	28' 0"	25' 4"	22' 2"	22' 7"	20' 7"	18' 0"	25' 4"	23' 1"	20' 2"
800S162-97	50	27' 8"	25' 2"	22' 0"	31' 1"	28' 2"	24' 8"	25' 2"	22' 10"	20' 0"	28' 2"	25' 8"	22' 4"
800S162-118	50	29' 3"	26' 7"	23' 3"	32' 10"	29' 10"	26' 1"	26' 7"	24' 2"	21' 1"	29' 10"	27' 1"	23' 8"
800S200-43	33	21' 7"	18' 8"	15' 3"	21' 7"	18' 8"	15' 3"	20' 7"	18' 8"	15' 3"	21' 7"	18' 8"	15' 3"
800S200-43 (50)	50	22' 7"	20' 7"	17' 4"	24' 7"	21' 3"	16' 9"	20' 7"	18' 8"	16' 3"	23' 1"	21' 0"	16' 9"
800S200-54	50	24' 3"	22' 1"	19' 3"	27' 3"	24' 9"	20' 4"	22' 1"	20' 1"	17' 6"	24' 9"	22' 6"	19' 8"
800S200-68	50	26' 1"	23' 8"	20' 8"	29' 3"	26' 7"	23' 3"	23' 8"	21' 6"	18' 9"	26' 7"	24' 2"	21' 1"
800S200-97	50	29' 0"	26' 4"	23' 0"	32' 7"	29' 7"	25' 10"	26' 4"	24' 0"	20' 10"	29' 7"	26' 10"	23' 6"
800S200-118	50	30' 9"	27' 10"	24' 4"	34' 6"	31' 4"	27' 4"	27' 10"	25' 4"	22' 2"	31' 4"	28' 6"	24' 10"
800S250-43	33	22' 1"	19' 2"	15' 8"	22' 1"	19' 2"	15' 6"	21' 4"	19' 2"	15' 8"	22' 1"	19' 2"	15' 6"
800S250-43 (50)	50	23' 3"	21' 2"	17' 9"	25' 2"	21' 6"	16' 10"	21' 2"	19' 2"	16' 9"	23' 9"	21' 6"	16' 10"
800S250-54	50	25' 2"	22' 10"	20' 0"	28' 3"	25' 6"	20' 10"	22' 10"	20' 9"	18' 2"	25' 8"	23' 4"	20' 4"
800S250-68	50	27' 3"	24' 9"	21' 7"	30' 7"	27' 9"	24' 3"	24' 9"	22' 6"	19' 8"	27' 9"	25' 3"	22' 1"
800S250-97	50	30' 3"	27' 7"	24' 1"	34' 1"	30' 10"	27' 0"	27' 7"	25' 1"	21' 10"	30' 10"	28' 1"	24' 7"
800S250-118	50	32' 2"	29' 2"	25' 6"	36' 1"	32' 9"	28' 8"	29' 2"	26' 7"	23' 2"	32' 9"	29' 9"	26' 0"
800S300-54	50	25' 8"	23' 4"	20' 4"	28' 10"	25' 10"	21' 1"	23' 4"	21' 2"	18' 7"	26' 2"	23' 9"	20' 9"
800S300-68	50	28' 0"	25' 6"	22' 3"	31' 6"	28' 7"	24' 9"	25' 6"	23' 1"	20' 2"	28' 0"	26' 0"	22' 8"
800S300-97	50	31' 6"	28' 7"	25' 0"	35' 3"	32' 1"	28' 0"	28' 7"	26' 0"	22' 8"	32' 1"	29' 2"	25' 6"
800S300-118	50	33' 6"	30' 4"	26' 7"	37' 7"	34' 1"	29' 9"	30' 4"	27' 7"	24' 1"	34' 1"	31' 0"	27' 1"
1000S162-33	33	18' 4"	15' 10"	12' 7"	15' 8"	12' 8"	9' 1"	18' 4"	15' 10"	12' 7"	15' 8"	12' 8"	9' 1"
1000S162-43	33	22' 4"	19' 4"	15' 9"	22' 3"	18' 9"	14' 8"	22' 4"	19' 4"	15' 9"	22' 3"	18' 9"	14' 8"
1000S162-43 (50)	50	25' 2"	22' 0"	17' 10"	24' 8"	20' 8"	16' 0"	22' 10"	20' 9"	17' 10"	24' 8"	20' 8"	16' 0"
1000S162-54	50	27' 4"	24' 10"	21' 2"	30' 0"	25' 10"	21' 2"	24' 10"	22' 7"	20' 9"	27' 10"	25' 4"	21' 2"
1000S162-68	50	29' 8"	27' 0"	23' 7"	33' 4"	30' 3"	25' 0"	27' 0"	24' 6"	21' 4"	30' 3"	27' 6"	24' 1"
1000S162-97	50	33' 3"	30' 3"	26' 6"	37' 4"	34' 0"	29' 8"	30' 3"	27' 6"	24' 0"	34' 0"	30' 10"	27' 0"
1000S162-118	50	35' 3"	32' 1"	28' 0"	39' 8"	36' 0"	31' 6"	32' 1"	29' 2"	25' 6"	36' 0"	32' 8"	28' 7"
1000S200-43	33	24' 1"	20' 10"	17' 0"	23' 4"	19' 9"	15' 3"	24' 1"	20' 10"	17' 0"	23' 4"	19' 9"	15' 3"
1000S200-43 (50)	50	26' 4"	23' 8"	19' 4"	26' 2"	21' 10"	16' 8"	24' 0"	21' 9"	19' 0"	26' 2"	21' 10"	16' 8"
1000S200-54	50	28' 7"	26' 0"	22' 8"	32' 1"	27' 9"	22' 2"	26' 0"	23' 7"	20' 7"	28' 7"	26' 6"	22' 2"
1000S200-68	50	31' 0"	28' 2"	24' 7"	34' 10"	31' 8"	26' 9"	28' 2"	25' 7"	22' 4"	31' 8"	28' 9"	25' 1"
1000S200-97	50	34' 9"	31' 7"	27' 7"	39' 1"	35' 6"	31' 0"	31' 7"	28' 9"	25' 1"	35' 6"	32' 3"	28' 2"
1000S200-118	50	36' 10"	33' 7"	29' 3"	41' 6"	37' 8"	32' 10"	33' 7"	30' 6"	26' 7"	37' 8"	34' 2"	29' 10"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

10 psf Dead Load and 20 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-43	33	24' 9"	21' 6"	17' 6"	24' 4"	20' 6"	15' 9"	24' 9"	21' 6"	17' 6"	24' 4"	20' 6"	15' 9"
1000S250-43 (50)	50	27' 6"	24' 3"	19' 10"	26' 8"	22' 3"	17' 0"	25' 0"	22' 8"	19' 9"	26' 8"	22' 3"	17' 0"
1000S250-54	50	30' 1"	27' 4"	23' 4"	33' 1"	28' 7"	23' 1"	27' 4"	24' 10"	21' 8"	30' 8"	27' 10"	23' 1"
1000S250-68	50	32' 6"	29' 7"	25' 9"	36' 6"	33' 2"	27' 6"	29' 7"	26' 10"	23' 6"	33' 2"	30' 1"	26' 3"
1000S250-97	50	36' 3"	32' 10"	28' 9"	40' 8"	37' 0"	32' 3"	32' 10"	29' 10"	26' 2"	37' 0"	33' 7"	29' 4"
1000S250-118	50	38' 6"	35' 0"	30' 6"	43' 2"	39' 2"	34' 3"	35' 0"	31' 9"	27' 9"	39' 2"	35' 8"	31' 2"
1000S300-54	50	30' 8"	27' 10"	23' 8"	33' 7"	29' 1"	23' 2"	27' 10"	25' 3"	22' 1"	31' 3"	28' 4"	23' 2"
1000S300-68	50	33' 4"	30' 3"	26' 6"	37' 6"	34' 0"	28' 0"	30' 3"	27' 7"	24' 1"	34' 0"	30' 10"	27' 0"
1000S300-97	50	37' 6"	34' 1"	29' 9"	42' 1"	38' 2"	33' 4"	34' 1"	30' 10"	27' 0"	38' 2"	34' 8"	30' 3"
1000S300-118	50	39' 10"	36' 3"	31' 8"	44' 9"	40' 8"	35' 7"	36' 3"	33' 0"	28' 9"	40' 8"	37' 0"	32' 3"
1000S350-54	50	32' 4"	29' 4"	25' 8"	36' 3"	31' 10"	25' 2"	29' 4"	26' 8"	23' 3"	33' 0"	30' 0"	25' 2"
1000S350-68	50	35' 3"	32' 1"	28' 0"	39' 7"	36' 0"	31' 0"	32' 1"	29' 1"	25' 6"	36' 0"	32' 8"	28' 7"
1000S350-97	50	39' 6"	35' 10"	31' 3"	44' 3"	40' 3"	35' 2"	35' 10"	32' 7"	28' 6"	40' 3"	36' 7"	32' 0"
1000S350-118	50	41' 10"	38' 1"	33' 3"	47' 1"	42' 9"	37' 4"	38' 1"	34' 7"	30' 2"	42' 9"	38' 10"	34' 0"
1200S162-43	33	24' 0"	20' 9"	17' 0"	23' 3"	19' 3"	14' 7"	24' 0"	20' 9"	17' 0"	23' 3"	19' 3"	14' 7"
1200S162-43 (50)	50	27' 1"	23' 6"	19' 2"	25' 4"	20' 10"	15' 6"	26' 3"	23' 6"	19' 2"	25' 4"	20' 10"	15' 6"
1200S162-54	50	31' 6"	27' 10"	22' 9"	32' 2"	27' 10"	22' 4"	28' 7"	26' 0"	22' 8"	32' 1"	27' 10"	22' 4"
1200S162-68	50	34' 3"	31' 2"	27' 1"	38' 3"	33' 2"	27' 1"	31' 2"	28' 3"	24' 8"	35' 0"	31' 9"	27' 1"
1200S162-97	50	38' 9"	35' 3"	30' 8"	43' 7"	39' 7"	34' 7"	35' 3"	32' 1"	28' 0"	39' 7"	36' 0"	31' 4"
1200S162-118	50	41' 3"	37' 6"	32' 8"	46' 3"	42' 1"	36' 9"	37' 6"	34' 1"	29' 9"	42' 1"	38' 2"	33' 4"
1200S200-54	50	32' 10"	29' 10"	24' 8"	34' 9"	29' 6"	23' 1"	29' 10"	27' 1"	23' 8"	33' 6"	29' 6"	23' 1"
1200S200-68	50	35' 8"	32' 6"	28' 4"	40' 1"	35' 8"	29' 2"	32' 6"	29' 6"	25' 9"	36' 6"	33' 1"	28' 10"
1200S200-97	50	40' 4"	36' 8"	32' 1"	45' 4"	41' 3"	36' 0"	36' 8"	33' 4"	29' 2"	41' 3"	37' 6"	32' 8"
1200S200-118	50	43' 0"	39' 1"	34' 1"	48' 3"	43' 9"	38' 3"	39' 1"	35' 6"	31' 0"	43' 9"	39' 9"	34' 9"
1200S250-54	50	34' 3"	31' 1"	25' 6"	35' 4"	30' 0"	23' 6"	31' 1"	28' 3"	24' 8"	35' 0"	30' 0"	23' 6"
1200S250-68	50	37' 3"	33' 9"	29' 7"	39' 7"	36' 10"	30' 1"	33' 9"	30' 8"	26' 10"	36' 10"	34' 6"	30' 1"
1200S250-97	50	42' 0"	38' 2"	33' 4"	47' 2"	42' 10"	37' 6"	38' 2"	34' 8"	30' 3"	42' 10"	39' 0"	34' 0"
1200S250-118	50	44' 7"	40' 7"	35' 4"	50' 1"	45' 6"	39' 9"	40' 7"	36' 10"	32' 2"	45' 6"	41' 4"	36' 1"
1200S300-54	50	35' 6"	31' 9"	26' 0"	36' 3"	30' 8"	23' 10"	32' 2"	29' 3"	25' 7"	36' 2"	30' 8"	23' 10"
1200S300-68	50	38' 8"	35' 2"	30' 8"	43' 4"	37' 7"	30' 8"	35' 2"	31' 10"	27' 10"	39' 6"	35' 10"	30' 8"
1200S300-97	50	43' 6"	39' 6"	34' 6"	48' 9"	44' 3"	38' 8"	39' 6"	35' 10"	31' 4"	44' 3"	40' 3"	35' 2"
1200S300-118	50	46' 2"	42' 0"	36' 8"	51' 10"	47' 1"	41' 2"	42' 0"	38' 1"	33' 3"	47' 1"	42' 9"	37' 4"
1200S350-54	50	37' 3"	33' 10"	29' 0"	39' 6"	33' 3"	25' 8"	33' 10"	30' 9"	26' 10"	38' 1"	33' 3"	25' 8"
1200S350-68	50	40' 9"	37' 0"	32' 4"	45' 9"	41' 7"	34' 1"	37' 0"	33' 7"	29' 4"	41' 7"	37' 9"	33' 0"
1200S350-97	50	45' 7"	41' 4"	36' 2"	51' 1"	46' 6"	40' 7"	41' 4"	37' 7"	32' 10"	46' 6"	42' 2"	36' 10"
1200S350-118	50	48' 4"	44' 0"	38' 4"	54' 4"	49' 4"	43' 2"	44' 0"	40' 0"	34' 10"	49' 4"	44' 10"	39' 2"
1400S162-54	50	34' 0"	29' 6"	24' 1"	34' 0"	29' 6"	22' 8"	32' 2"	29' 3"	24' 1"	34' 0"	29' 6"	22' 8"
1400S162-68	50	38' 8"	35' 1"	28' 9"	40' 8"	35' 3"	28' 9"	35' 1"	31' 10"	27' 10"	39' 4"	35' 3"	28' 9"
1400S162-97	50	44' 0"	40' 0"	34' 10"	49' 4"	44' 10"	37' 8"	40' 0"	36' 3"	31' 8"	44' 10"	40' 9"	35' 7"
1400S162-118	50	47' 1"	42' 9"	37' 4"	52' 10"	48' 1"	42' 0"	42' 9"	38' 10"	34' 0"	47' 1"	43' 8"	38' 2"
1400S200-54	50	36' 10"	32' 1"	26' 2"	36' 4"	30' 6"	23' 3"	33' 7"	30' 6"	26' 2"	36' 4"	30' 6"	23' 3"
1400S200-68	50	40' 3"	36' 7"	31' 1"	44' 0"	38' 1"	31' 1"	36' 7"	33' 2"	29' 0"	41' 1"	37' 3"	31' 1"
1400S200-97	50	45' 8"	41' 7"	36' 3"	51' 3"	46' 7"	40' 4"	41' 7"	37' 9"	33' 0"	46' 7"	42' 4"	37' 0"
1400S200-118	50	49' 0"	44' 6"	38' 10"	55' 0"	49' 10"	43' 7"	44' 6"	40' 4"	35' 3"	49' 10"	45' 4"	39' 7"
1400S250-54	50	38' 3"	33' 3"	27' 2"	38' 10"	30' 10"	23' 7"	34' 9"	31' 7"	27' 2"	38' 10"	30' 10"	23' 7"
1400S250-68	50	41' 9"	38' 0"	32' 3"	45' 8"	39' 6"	31' 10"	38' 0"	34' 6"	30' 2"	42' 8"	38' 9"	31' 10"
1400S250-97	50	47' 6"	43' 1"	37' 8"	53' 3"	48' 4"	41' 10"	43' 1"	39' 2"	34' 2"	48' 4"	44' 0"	38' 4"
1400S250-118	50	50' 8"	46' 1"	40' 2"	56' 10"	51' 8"	45' 2"	46' 1"	41' 10"	36' 7"	51' 8"	47' 0"	41' 0"
1400S300-54	50	39' 0"	34' 1"	27' 10"	37' 2"	31' 1"	23' 8"	35' 6"	32' 2"	27' 10"	37' 2"	31' 1"	23' 8"
1400S300-68	50	43' 0"	39' 0"	33' 0"	46' 8"	40' 6"	32' 3"	39' 0"	35' 6"	31' 0"	43' 9"	39' 9"	32' 3"
1400S300-97	50	49' 1"	44' 7"	38' 10"	55' 1"	50' 0"	42' 10"	44' 7"	40' 6"	35' 4"	50' 0"	45' 6"	39' 8"
1400S300-118	50	52' 3"	47' 7"	41' 6"	58' 9"	53' 4"	46' 7"	47' 7"	43' 2"	37' 9"	53' 4"	48' 6"	42' 4"
1400S350-54	50	41' 7"	37' 9"	31' 3"	40' 7"	33' 8"	25' 3"	37' 9"	34' 4"	30' 0"	40' 7"	33' 8"	25' 3"
1400S350-68	50	46' 1"	41' 9"	36' 7"	51' 8"	45' 2"	35' 10"	41' 9"	38' 0"	33' 2"	47' 0"	42' 8"	35' 10"
1400S350-97	50	51' 6"	46' 9"	40' 10"	57' 9"	52' 6"	45' 10"	46' 9"	42' 6"	37' 1"	52' 6"	47' 8"	41' 8"
1400S350-118	50	54' 9"	49' 9"	43' 6"	61' 6"	55' 10"	48' 9"	49' 9"	45' 2"	39' 6"	55' 10"	50' 9"	44' 3"
1600S162-68	50	42' 8"	36' 10"	30' 2"	42' 8"	36' 10"	30' 2"	38' 10"	35' 4"	30' 2"	42' 8"	36' 10"	30' 2"
1600S162-97	50	49' 0"	44' 6"	38' 10"	55' 0"	48' 9"	39' 9"	44' 6"	40' 4"	35' 3"	50' 0"	45' 4"	39' 8"
1600S162-118	50	52' 7"	47' 9"	41' 9"	59' 1"	53' 8"	46' 4"	47' 9"	43' 4"	37' 10"	53' 8"	48' 9"	42' 7"
1600S200-68	50	44' 7"	40' 1"	32' 8"	46' 3"	40' 1"	32' 8"	40' 6"	36' 9"	32' 2"	45' 6"	40' 1"	32' 8"
1600S200-97	50	50' 9"	46' 2"	40' 4"	57' 1"	51' 10"	42' 9"	46' 2"	42' 0"	36' 8"	51' 10"	47' 1"	41' 2"
1600S200-118	50	54' 7"	49' 7"	43' 3"	61' 3"	55' 8"	48' 7"	49' 7"	45' 0"	39' 3"	55' 8"	50' 7"	44' 2"
1600S250-68	50	46' 2"	41' 9"	34' 1"	48' 2"	41' 9"	33' 0"	42' 0"	38' 2"	33' 3"	47' 1"	41' 9"	33' 0"
1600S250-97	50	52' 7"	47' 9"	41' 9"	59' 0"	53' 7"	44' 7"	47' 9"	43' 4"	37' 10"	53' 7"	48' 8"	42' 7"
1600S250-118	50	56' 4"	51' 3"	44' 9"	63' 3"	57' 6"	50' 3"	51' 3"	46' 7"	40' 8"	57' 6"	52' 3"	45' 8"
1600S300-68	50	47' 3"	42' 10"	35' 1"	49' 7"	42' 4"	33' 4"	43' 0"	39' 1"	34' 1"	48' 2"	42' 4"	33' 4"
1600S300-97	50	54' 2"	49' 2"	43' 0"	60' 9"	55' 3"	45' 8"	49' 2"	44' 8"	39' 1"	55' 3"	49' 2"	43' 10"
1600S300-118	50	58' 2"	52' 10"	46' 2"	65' 3"	59' 4"	51' 10"	52' 10"	48' 0"	42' 0"	59' 4"	53' 10"	47' 1"
1600S350-68	50	49' 10"	45' 3"	39' 3"	54' 8"	46' 3"	36' 1"	45' 3"	41' 2"	36' 0"	50' 10"	46' 2"	36' 1"
1600S350-97	50	56' 9"	51' 7"	45' 0"	63' 8"	57' 10"	50' 7"	51' 7"	46' 9"	40' 10"	57' 10"	52' 7"	45' 10"
1600S350-118	50	60' 9"	55' 2"	48' 3"	68' 2"	62' 0"	54' 2"	55' 2"	50' 2"	43' 9"	62' 0"	56' 3"	49' 2"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

10 psf Dead Load and 30 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	11' 8"	10' 1"	8' 3"	11' 7"	9' 9"	7' 8"	11' 8"	10' 1"	8' 3"	11' 7"	9' 9"	7' 8"
600S137-43	33	14' 0"	12' 2"	9' 10"	14' 0"	12' 2"	9' 10"	13' 1"	11' 10"	9' 10"	14' 0"	12' 2"	9' 10"
600S137-43 (50)	50	14' 3"	13' 0"	11' 4"	16' 1"	13' 10"	11' 3"	13' 0"	11' 9"	10' 3"	14' 7"	13' 3"	11' 3"
600S137-54	50	15' 4"	14' 0"	12' 2"	17' 3"	15' 8"	13' 3"	14' 0"	11' 1"	15' 8"	14' 3"	12' 6"	12' 6"
600S137-68	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	14' 8"	15' 0"	13' 7"	11' 10"	16' 9"	15' 3"	13' 4"
600S137-97	50	18' 3"	16' 7"	14' 6"	20' 6"	18' 7"	16' 3"	16' 7"	15' 1"	13' 2"	18' 7"	16' 10"	14' 9"
600S162-33	33	12' 7"	10' 10"	8' 10"	12' 7"	10' 9"	8' 4"	12' 6"	10' 10"	8' 10"	12' 7"	10' 9"	8' 4"
600S162-43	33	15' 0"	13' 4"	11' 0"	15' 6"	13' 4"	11' 0"	13' 7"	12' 4"	10' 9"	15' 3"	13' 4"	11' 0"
600S162-43 (50)	50	15' 0"	13' 7"	11' 10"	16' 9"	14' 10"	12' 2"	13' 7"	12' 4"	10' 9"	15' 3"	13' 10"	12' 1"
600S162-54	50	16' 1"	14' 7"	12' 9"	18' 1"	16' 4"	14' 3"	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0"
600S162-68	50	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4"	15' 8"	14' 2"	12' 4"	17' 7"	16' 0"	14' 0"
600S162-97	50	19' 1"	17' 4"	15' 2"	21' 6"	19' 6"	17' 0"	17' 4"	15' 9"	13' 9"	19' 6"	17' 8"	15' 6"
600S162-118	50	20' 2"	18' 3"	16' 0"	22' 8"	20' 7"	18' 0"	18' 3"	16' 8"	14' 7"	20' 7"	18' 8"	16' 3"
600S200-33	33	13' 4"	11' 7"	9' 6"	13' 2"	11' 2"	8' 8"	13' 1"	11' 7"	9' 6"	13' 2"	11' 2"	8' 8"
600S200-43	33	15' 9"	13' 10"	11' 3"	16' 0"	13' 10"	11' 3"	14' 3"	13' 0"	11' 3"	16' 0"	13' 10"	11' 3"
600S200-43 (50)	50	15' 9"	14' 3"	12' 6"	17' 8"	15' 10"	13' 0"	14' 3"	13' 0"	11' 4"	16' 1"	14' 7"	12' 9"
600S200-54	50	16' 10"	15' 4"	13' 4"	19' 0"	17' 2"	15' 1"	15' 4"	14' 0"	12' 2"	17' 2"	15' 8"	13' 8"
600S200-68	50	18' 1"	16' 6"	14' 4"	20' 4"	18' 6"	16' 2"	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	14' 8"
600S200-97	50	20' 1"	18' 3"	16' 0"	22' 7"	20' 6"	17' 10"	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 3"
600S200-118	50	21' 3"	19' 4"	16' 10"	23' 10"	21' 8"	19' 0"	19' 4"	17' 7"	15' 4"	21' 8"	19' 8"	17' 2"
600S250-43	33	16' 4"	14' 2"	11' 7"	16' 4"	14' 2"	11' 7"	15' 0"	13' 7"	11' 7"	16' 4"	14' 2"	11' 7"
600S250-43 (50)	50	16' 3"	14' 9"	12' 10"	18' 3"	16' 2"	13' 2"	14' 9"	13' 4"	11' 8"	16' 7"	15' 1"	13' 2"
600S250-54	50	17' 7"	16' 0"	14' 0"	19' 9"	18' 0"	15' 6"	16' 0"	14' 7"	12' 8"	18' 0"	16' 3"	14' 3"
600S250-68	50	19' 0"	17' 3"	15' 1"	21' 4"	19' 4"	17' 0"	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4"
600S250-97	50	21' 2"	19' 2"	16' 9"	23' 8"	21' 7"	18' 9"	19' 2"	17' 6"	15' 3"	21' 7"	19' 7"	17' 1"
600S250-118	50	22' 4"	20' 4"	17' 9"	25' 1"	22' 9"	20' 0"	20' 4"	18' 6"	16' 2"	22' 9"	20' 9"	18' 1"
600S300-54	50	18' 0"	16' 4"	14' 3"	20' 2"	18' 4"	15' 8"	16' 4"	14' 10"	13' 0"	18' 4"	16' 8"	14' 7"
600S300-68	50	19' 7"	17' 9"	15' 7"	22' 0"	20' 0"	17' 6"	17' 9"	16' 2"	14' 2"	20' 0"	18' 2"	15' 10"
600S300-97	50	22' 0"	20' 0"	17' 6"	24' 8"	22' 4"	19' 7"	20' 0"	18' 2"	15' 10"	22' 4"	20' 4"	17' 9"
600S300-118	50	23' 4"	21' 3"	18' 7"	26' 3"	23' 10"	20' 9"	21' 3"	19' 3"	16' 10"	23' 10"	21' 8"	18' 10"
800S137-33	33	13' 4"	11' 7"	9' 4"	12' 4"	10' 3"	7' 8"	13' 4"	11' 7"	9' 4"	12' 4"	10' 3"	7' 8"
800S137-43	33	16' 2"	14' 0"	11' 6"	16' 2"	14' 0"	11' 2"	16' 2"	14' 0"	11' 6"	16' 2"	14' 0"	11' 2"
800S137-43 (50)	50	17' 10"	16' 0"	13' 0"	18' 6"	16' 0"	12' 7"	16' 2"	14' 8"	12' 10"	18' 2"	16' 0"	12' 7"
800S137-54	50	19' 4"	17' 7"	15' 4"	21' 8"	18' 10"	15' 4"	17' 7"	16' 0"	14' 0"	19' 8"	17' 10"	15' 4"
800S137-68	50	20' 10"	19' 0"	16' 7"	23' 6"	21' 4"	18' 2"	19' 0"	17' 3"	15' 1"	21' 4"	19' 4"	17' 0"
800S137-97	50	23' 2"	21' 1"	18' 4"	26' 1"	23' 8"	20' 8"	21' 1"	19' 2"	16' 8"	23' 8"	21' 6"	18' 9"
800S162-33	33	14' 6"	12' 7"	10' 3"	13' 0"	10' 8"	8' 0"	14' 6"	12' 7"	10' 3"	13' 0"	10' 8"	8' 0"
800S162-43	33	17' 6"	15' 1"	12' 4"	17' 6"	14' 10"	11' 9"	17' 6"	15' 1"	12' 4"	17' 6"	14' 10"	11' 9"
800S162-43 (50)	50	18' 7"	16' 10"	14' 1"	19' 7"	16' 7"	13' 0"	16' 10"	15' 4"	13' 4"	19' 0"	16' 7"	13' 0"
800S162-54	50	20' 1"	18' 3"	16' 0"	22' 7"	20' 3"	16' 6"	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 3"
800S162-68	50	21' 9"	19' 9"	17' 3"	24' 4"	22' 2"	19' 4"	19' 9"	18' 0"	15' 8"	22' 2"	20' 2"	17' 7"
800S162-97	50	24' 2"	22' 0"	19' 2"	27' 2"	24' 8"	21' 6"	22' 0"	20' 0"	17' 4"	24' 8"	22' 4"	19' 7"
800S162-118	50	25' 7"	23' 3"	20' 3"	28' 8"	26' 1"	22' 9"	23' 3"	21' 1"	18' 6"	26' 1"	23' 8"	20' 8"
800S200-43	33	18' 8"	16' 2"	13' 2"	18' 8"	16' 2"	12' 10"	18' 0"	16' 2"	13' 2"	18' 8"	16' 2"	12' 10"
800S200-43 (50)	50	19' 9"	18' 0"	15' 1"	21' 3"	18' 1"	14' 1"	18' 0"	16' 3"	14' 3"	20' 2"	18' 1"	14' 1"
800S200-54	50	21' 2"	19' 3"	16' 10"	23' 9"	21' 7"	17' 7"	19' 3"	17' 6"	15' 3"	21' 8"	19' 8"	17' 2"
800S200-68	50	22' 9"	20' 8"	18' 1"	25' 7"	23' 3"	20' 3"	20' 8"	18' 9"	16' 4"	23' 3"	21' 1"	18' 6"
800S200-97	50	25' 4"	23' 0"	20' 1"	28' 6"	25' 10"	22' 7"	23' 0"	20' 10"	18' 3"	25' 10"	23' 6"	20' 6"
800S200-118	50	26' 10"	24' 4"	21' 3"	30' 2"	27' 4"	23' 10"	24' 4"	22' 2"	19' 4"	27' 4"	24' 10"	21' 8"
800S250-43	33	19' 2"	16' 7"	13' 7"	19' 2"	16' 7"	13' 0"	18' 8"	16' 7"	13' 7"	19' 2"	16' 7"	13' 0"
800S250-43 (50)	50	20' 4"	18' 6"	15' 4"	21' 6"	18' 2"	14' 1"	18' 6"	16' 9"	14' 8"	20' 9"	18' 2"	14' 1"
800S250-54	50	22' 0"	20' 0"	17' 6"	24' 8"	22' 1"	18' 1"	20' 0"	18' 2"	15' 10"	22' 6"	20' 4"	17' 9"
800S250-68	50	23' 9"	21' 7"	18' 10"	26' 8"	24' 3"	21' 2"	21' 7"	19' 8"	17' 2"	24' 3"	22' 1"	19' 3"
800S250-97	50	26' 6"	24' 1"	21' 0"	29' 9"	27' 0"	23' 7"	24' 1"	21' 10"	19' 1"	27' 0"	24' 7"	21' 6"
800S250-118	50	28' 1"	25' 6"	22' 3"	31' 6"	28' 8"	25' 0"	25' 6"	23' 2"	20' 3"	28' 8"	26' 0"	22' 9"
800S300-54	50	22' 6"	20' 4"	17' 9"	25' 2"	22' 4"	18' 3"	20' 4"	18' 7"	16' 2"	22' 10"	20' 9"	18' 2"
800S300-68	50	24' 6"	22' 3"	19' 4"	27' 6"	25' 0"	21' 6"	22' 3"	20' 2"	17' 8"	25' 0"	22' 8"	19' 9"
800S300-97	50	27' 6"	25' 0"	21' 9"	30' 10"	28' 0"	24' 6"	25' 0"	22' 8"	19' 9"	28' 0"	25' 6"	22' 2"
800S300-118	50	29' 2"	26' 7"	23' 2"	32' 9"	29' 9"	26' 1"	26' 7"	24' 1"	21' 1"	29' 9"	27' 1"	23' 8"
1000S162-33	33	15' 10"	13' 9"	9' 4"	12' 8"	10' 1"	7' 1"	15' 10"	13' 9"	9' 4"	12' 8"	10' 1"	7' 1"
1000S162-43	33	19' 4"	16' 9"	13' 8"	18' 9"	15' 9"	12' 1"	19' 4"	16' 9"	13' 8"	18' 9"	15' 9"	12' 1"
1000S162-43 (50)	50	22' 0"	19' 0"	15' 6"	20' 8"	17' 3"	13' 1"	20' 0"	18' 2"	15' 6"	20' 8"	17' 3"	13' 1"
1000S162-54	50	23' 10"	21' 8"	18' 3"	25' 10"	22' 6"	18' 1"	21' 8"	19' 9"	17' 3"	24' 4"	22' 2"	18' 1"
1000S162-68	50	26' 0"	23' 7"	20' 7"	29' 2"	26' 6"	21' 8"	23' 7"	21' 4"	18' 8"	26' 6"	24' 1"	21' 0"
1000S162-97	50	29' 1"	26' 6"	23' 1"	32' 8"	29' 8"	26' 0"	26' 6"	24' 0"	21' 0"	29' 8"	27' 0"	23' 7"
1000S162-118	50	30' 10"	28' 0"	24' 6"	34' 7"	31' 6"	27' 6"	28' 0"	25' 6"	22' 3"	31' 6"	28' 7"	25' 0"
1000S200-43	33	20' 10"	18' 1"	14' 9"	19' 9"	16' 6"	12' 7"	20' 10"	18' 1"	14' 9"	19' 9"	16' 6"	12' 7"
1000S200-43 (50)	50	23' 1"	20' 6"	16' 9"	21' 10"	18' 1"	13' 7"	20' 10"	19' 0"	16' 7"	21' 10"	18' 1"	13' 7"
1000S200-54	50	25' 0"	22' 8"	19' 8"	27' 9"	23' 8"	18' 8"	22' 8"	20' 7"	18' 0"	25' 6"	23' 2"	18' 8"
1000S200-68	50	27' 1"	24' 7"	21' 6"	30' 4"	27' 8"	23' 2"	24' 7"	22' 4"	19' 7"	27' 8"	25' 1"	22' 0"
1000S200-97	50	30' 4"	27' 7"	24' 1"	34' 2"	31' 0"	27' 1"	27' 7"	25' 1"	21' 10"	31' 0"	28' 2"	24' 7"
1000S200-118	50	32' 3"	29' 3"	25' 7"	36' 2"	32' 10"	28' 8"	29' 3"	26' 7"	23' 3"	32' 10"	29' 10"	26' 1"
1000S250-43	33	21' 6"	18' 7"	15' 2"	20' 6"	17' 1"	13' 0"	21' 6"	18' 7"	15' 2"	20' 6"	17' 1"	13' 0"
1000S250-43 (50)	50	24' 0"	21' 1"	17' 2"	22' 3"	19' 4"	13' 9"	21' 6"	19' 9"	17' 2"	22' 3"	19' 4"	13' 9"
1000S250-54	50	26' 3"	23' 10"	20' 2"	28' 7"	24' 8"	19' 6"	23' 10"	21' 8"	19' 0"	26' 9"	24' 4"	19' 6"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

10 psf Dead Load and 30 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						Live Load Deflection L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-68	50	28' 4"	25' 9"	22' 7"	31' 10"	29' 0"	23' 9"	25' 9"	23' 6"	20' 6"	29' 0"	26' 3"	23' 0"
1000S250-97	50	31' 8"	28' 9"	25' 1"	35' 7"	32' 3"	28' 2"	28' 9"	26' 2"	22' 9"	32' 3"	29' 4"	25' 7"
1000S250-118	50	33' 7"	30' 6"	26' 8"	37' 8"	34' 3"	30' 0"	30' 6"	27' 9"	24' 2"	34' 3"	31' 2"	27' 2"
1000S300-54	50	26' 9"	24' 3"	20' 7"	29' 1"	24' 9"	19' 7"	24' 3"	22' 1"	19' 3"	27' 3"	24' 9"	19' 7"
1000S300-68	50	29' 2"	26' 6"	23' 1"	32' 8"	29' 8"	24' 2"	26' 6"	24' 1"	21' 0"	29' 8"	27' 0"	23' 7"
1000S300-97	50	32' 9"	29' 9"	26' 0"	36' 9"	33' 4"	29' 2"	29' 9"	27' 0"	23' 7"	33' 4"	30' 3"	26' 6"
1000S300-118	50	34' 10"	31' 8"	27' 8"	39' 1"	35' 7"	31' 1"	31' 8"	28' 9"	25' 1"	35' 7"	32' 3"	28' 2"
1000S350-54	50	28' 3"	25' 8"	22' 4"	31' 8"	27' 0"	21' 2"	25' 8"	23' 3"	20' 4"	28' 9"	26' 2"	21' 2"
1000S350-68	50	30' 9"	28' 0"	24' 6"	34' 7"	31' 4"	26' 10"	28' 0"	25' 6"	22' 7"	31' 4"	28' 7"	25' 0"
1000S350-97	50	34' 6"	31' 3"	27' 4"	38' 8"	35' 2"	30' 8"	31' 3"	28' 6"	24' 10"	35' 2"	32' 0"	27' 10"
1000S350-118	50	36' 7"	33' 3"	29' 1"	41' 1"	37' 4"	32' 7"	33' 3"	30' 2"	26' 4"	37' 4"	34' 0"	29' 8"
1200S162-43	33	20' 9"	18' 0"	14' 8"	19' 3"	15' 10"	11' 9"	20' 9"	18' 0"	14' 8"	19' 3"	15' 10"	11' 9"
1200S162-43 (50)	50	23' 6"	20' 4"	16' 7"	20' 10"	17' 0"	12' 3"	23' 0"	20' 4"	16' 7"	20' 10"	17' 0"	12' 3"
1200S162-54	50	27' 6"	24' 2"	19' 8"	27' 10"	24' 1"	18' 8"	25' 0"	22' 8"	19' 8"	27' 10"	24' 1"	18' 8"
1200S162-68	50	30' 0"	27' 2"	23' 6"	33' 2"	28' 9"	23' 6"	27' 2"	24' 8"	21' 7"	30' 0"	27' 9"	23' 6"
1200S162-97	50	33' 10"	30' 9"	26' 10"	38' 1"	34' 7"	30' 2"	30' 9"	28' 0"	24' 6"	34' 7"	31' 4"	27' 6"
1200S162-118	50	36' 0"	32' 8"	28' 7"	40' 6"	36' 9"	32' 1"	32' 8"	29' 9"	26' 0"	36' 9"	33' 4"	29' 2"
1200S200-54	50	28' 8"	26' 1"	21' 4"	29' 6"	24' 10"	19' 2"	26' 1"	23' 8"	20' 8"	29' 3"	24' 10"	19' 2"
1200S200-68	50	31' 2"	28' 4"	24' 9"	33' 10"	30' 10"	25' 3"	28' 4"	25' 9"	22' 6"	31' 2"	25' 3"	21' 5"
1200S200-97	50	35' 3"	32' 1"	28' 0"	39' 8"	36' 0"	31' 6"	32' 1"	29' 2"	25' 6"	36' 0"	32' 8"	28' 7"
1200S200-118	50	37' 7"	34' 1"	29' 9"	42' 2"	38' 3"	33' 6"	34' 1"	31' 0"	27' 1"	38' 3"	34' 9"	30' 4"
1200S250-54	50	29' 10"	27' 0"	22' 1"	30' 0"	25' 2"	19' 6"	27' 2"	24' 8"	21' 7"	30' 0"	25' 2"	19' 6"
1200S250-68	50	32' 6"	29' 7"	25' 9"	36' 6"	31' 10"	25' 9"	29' 7"	26' 10"	23' 6"	33' 2"	30' 2"	25' 9"
1200S250-97	50	36' 8"	33' 4"	29' 2"	41' 2"	37' 6"	32' 8"	33' 4"	30' 3"	26' 6"	37' 6"	34' 0"	29' 8"
1200S250-118	50	39' 0"	35' 4"	31' 0"	43' 9"	39' 9"	34' 8"	35' 4"	32' 2"	28' 1"	39' 9"	36' 1"	31' 7"
1200S300-54	50	31' 0"	27' 6"	22' 6"	30' 8"	25' 9"	19' 9"	28' 6"	25' 7"	22' 3"	30' 8"	25' 9"	19' 9"
1200S300-68	50	33' 9"	30' 8"	26' 7"	37' 7"	32' 7"	26' 7"	30' 8"	27' 10"	24' 4"	34' 6"	31' 3"	26' 7"
1200S300-97	50	38' 0"	34' 6"	30' 1"	42' 7"	38' 8"	33' 9"	34' 6"	31' 4"	27' 4"	38' 8"	35' 2"	30' 8"
1200S300-118	50	40' 4"	36' 8"	32' 0"	45' 3"	41' 2"	36' 0"	36' 8"	33' 3"	29' 1"	41' 2"	37' 4"	32' 8"
1200S350-54	50	32' 7"	29' 7"	25' 2"	33' 3"	27' 9"	21' 1"	29' 7"	26' 10"	23' 6"	33' 3"	27' 9"	21' 1"
1200S350-68	50	35' 7"	32' 4"	28' 3"	40' 0"	36' 2"	29' 3"	32' 4"	29' 4"	25' 8"	36' 3"	33' 0"	28' 9"
1200S350-97	50	39' 9"	36' 2"	31' 7"	44' 8"	40' 7"	35' 6"	36' 2"	32' 10"	28' 8"	40' 7"	36' 10"	32' 9"
1200S350-118	50	42' 3"	38' 4"	33' 7"	47' 6"	43' 2"	37' 8"	38' 4"	34' 10"	30' 6"	43' 2"	39' 2"	34' 2"
1400S162-54	50	29' 6"	25' 6"	20' 9"	29' 6"	24' 7"	18' 7"	28' 1"	25' 6"	20' 9"	29' 6"	24' 7"	18' 7"
1400S162-68	50	33' 9"	30' 6"	24' 10"	35' 3"	30' 6"	24' 10"	30' 8"	27' 10"	24' 4"	34' 6"	30' 6"	24' 10"
1400S162-97	50	38' 6"	34' 10"	30' 6"	43' 2"	39' 2"	32' 8"	34' 10"	31' 8"	27' 8"	39' 2"	35' 7"	31' 1"
1400S162-118	50	41' 2"	37' 4"	32' 8"	46' 2"	42' 0"	36' 8"	37' 4"	34' 0"	29' 8"	42' 0"	38' 2"	33' 3"
1400S200-54	50	32' 1"	27' 9"	22' 8"	30' 6"	25' 3"	19' 0"	29' 3"	26' 7"	22' 8"	30' 6"	25' 3"	19' 0"
1400S200-68	50	35' 2"	31' 10"	26' 10"	34' 1"	33' 0"	26' 9"	31' 10"	29' 0"	25' 4"	35' 10"	32' 7"	26' 9"
1400S200-97	50	40' 0"	36' 3"	31' 8"	44' 9"	40' 8"	35' 0"	36' 3"	33' 0"	28' 9"	40' 8"	37' 0"	32' 3"
1400S200-118	50	42' 9"	38' 10"	33' 10"	48' 0"	43' 7"	38' 1"	38' 10"	35' 3"	30' 9"	43' 7"	39' 7"	34' 7"
1400S250-54	50	33' 3"	28' 10"	23' 7"	30' 10"	25' 6"	19' 1"	30' 4"	27' 7"	23' 7"	30' 10"	25' 6"	19' 1"
1400S250-68	50	36' 7"	33' 2"	28' 0"	39' 6"	34' 1"	27' 0"	33' 2"	30' 2"	26' 4"	33' 10"	27' 0"	22' 8"
1400S250-97	50	41' 6"	37' 8"	32' 10"	46' 6"	42' 3"	36' 3"	37' 8"	34' 2"	29' 10"	42' 3"	38' 4"	33' 7"
1400S250-118	50	44' 3"	40' 2"	35' 2"	49' 8"	45' 2"	39' 6"	40' 2"	36' 7"	31' 10"	45' 2"	41' 0"	35' 10"
1400S300-54	50	34' 1"	29' 6"	24' 1"	31' 1"	25' 8"	19' 2"	31' 0"	28' 1"	24' 1"	31' 1"	25' 8"	19' 2"
1400S300-68	50	37' 6"	34' 1"	28' 7"	40' 6"	34' 7"	27' 3"	34' 1"	31' 0"	27' 1"	38' 3"	34' 7"	27' 3"
1400S300-97	50	42' 10"	38' 10"	34' 0"	48' 1"	43' 8"	37' 1"	38' 10"	35' 4"	30' 10"	43' 8"	39' 8"	34' 8"
1400S300-118	50	45' 8"	41' 6"	36' 3"	51' 3"	46' 7"	40' 8"	41' 6"	37' 9"	33' 0"	46' 7"	42' 4"	37' 0"
1400S350-54	50	36' 4"	33' 0"	27' 1"	33' 8"	27' 7"	20' 3"	33' 0"	30' 0"	26' 2"	33' 8"	27' 7"	20' 3"
1400S350-68	50	40' 2"	36' 7"	31' 10"	45' 2"	38' 6"	30' 1"	36' 7"	33' 2"	29' 0"	41' 0"	37' 3"	30' 1"
1400S350-97	50	45' 0"	40' 10"	35' 8"	50' 6"	45' 10"	40' 1"	40' 10"	37' 1"	32' 4"	45' 10"	41' 8"	36' 4"
1400S350-118	50	47' 9"	43' 6"	38' 0"	53' 8"	48' 9"	42' 7"	43' 6"	39' 6"	34' 6"	48' 9"	44' 3"	38' 8"
1600S162-68	50	36' 10"	32' 0"	26' 1"	36' 10"	32' 0"	26' 1"	34' 0"	30' 10"	26' 1"	36' 10"	32' 0"	26' 1"
1600S162-97	50	42' 9"	38' 10"	34' 0"	48' 0"	42' 3"	34' 6"	38' 10"	35' 3"	30' 10"	43' 7"	39' 8"	34' 6"
1600S162-118	50	46' 0"	41' 9"	36' 6"	51' 7"	46' 10"	40' 2"	41' 9"	37' 10"	33' 1"	46' 10"	42' 7"	37' 2"
1600S200-68	50	39' 0"	34' 8"	28' 3"	40' 1"	34' 8"	27' 4"	35' 4"	32' 2"	28' 1"	39' 8"	34' 8"	27' 4"
1600S200-97	50	44' 4"	40' 4"	35' 3"	49' 10"	45' 3"	37' 1"	40' 4"	36' 8"	32' 0"	45' 3"	41' 2"	36' 0"
1600S200-118	50	47' 8"	43' 3"	37' 9"	53' 6"	48' 7"	42' 6"	43' 3"	39' 3"	34' 4"	48' 7"	44' 2"	38' 7"
1600S250-68	50	40' 4"	36' 2"	29' 6"	41' 9"	35' 4"	27' 7"	36' 8"	33' 3"	29' 1"	41' 2"	35' 4"	27' 7"
1600S250-97	50	46' 0"	41' 9"	36' 6"	51' 7"	46' 10"	38' 7"	41' 9"	37' 10"	33' 1"	46' 10"	42' 7"	37' 2"
1600S250-118	50	49' 3"	44' 9"	39' 1"	55' 3"	50' 3"	43' 10"	44' 9"	40' 8"	35' 6"	50' 3"	45' 8"	39' 10"
1600S300-68	50	41' 3"	37' 2"	30' 4"	42' 4"	35' 9"	27' 9"	37' 6"	34' 1"	29' 9"	42' 1"	35' 9"	27' 9"
1600S300-97	50	47' 3"	43' 0"	37' 7"	53' 1"	48' 3"	39' 7"	43' 0"	39' 1"	34' 1"	48' 3"	43' 10"	38' 3"
1600S300-118	50	50' 9"	46' 2"	40' 4"	57' 1"	51' 10"	45' 3"	46' 2"	42' 0"	36' 8"	51' 10"	47' 1"	41' 2"
1600S350-68	50	43' 7"	39' 7"	34' 0"	46' 3"	38' 9"	29' 10"	37' 7"	36' 0"	31' 4"	44' 6"	38' 9"	29' 10"
1600S350-97	50	49' 7"	45' 0"	39' 4"	55' 8"	50' 7"	43' 9"	45' 0"	40' 10"	35' 9"	50' 7"	45' 10"	40' 1"
1600S350-118	50	53' 1"	48' 3"	42' 2"	59' 7"	54' 2"	47' 3"	48' 3"	43' 9"	38' 3"	54' 2"	49' 2"	43' 0"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

10 psf Dead Load and 40 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	10' 4"	9' 0"	7' 4"	10' 2"	8' 7"	6' 8"	10' 4"	9' 0"	7' 4"	10' 2"	8' 7"	6' 8"
600S137-43	33	12' 7"	10' 10"	8' 10"	12' 7"	10' 10"	8' 8"	11' 10"	10' 9"	8' 10"	12' 7"	10' 10"	8' 8"
600S137-43 (50)	50	13' 0"	11' 9"	10' 2"	14' 4"	12' 6"	10' 0"	11' 9"	10' 8"	9' 4"	13' 3"	12' 0"	10' 0"
600S137-54	50	14' 0"	12' 8"	11' 1"	15' 8"	14' 3"	11' 10"	12' 8"	11' 7"	10' 1"	14' 3"	13' 0"	11' 3"
600S137-68	50	15' 0"	13' 7"	11' 10"	16' 9"	15' 3"	13' 4"	13' 7"	12' 4"	10' 9"	15' 3"	13' 10"	12' 1"
600S137-97	50	16' 7"	15' 1"	13' 2"	18' 7"	16' 10"	14' 9"	15' 1"	13' 8"	12' 0"	16' 10"	15' 4"	13' 4"
600S162-33	33	11' 2"	9' 8"	7' 10"	11' 2"	9' 6"	7' 3"	11' 2"	9' 8"	7' 10"	11' 2"	9' 6"	7' 3"
600S162-43	33	13' 7"	12' 0"	9' 9"	13' 10"	12' 0"	9' 9"	12' 4"	11' 2"	9' 9"	13' 10"	12' 0"	9' 9"
600S162-43 (50)	50	13' 7"	12' 4"	10' 9"	15' 3"	13' 4"	10' 10"	12' 4"	11' 2"	9' 9"	13' 10"	12' 7"	10' 10"
600S162-54	50	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0"	13' 3"	12' 1"	10' 6"	14' 10"	13' 6"	11' 9"
600S162-68	50	15' 8"	14' 2"	12' 4"	17' 7"	16' 0"	14' 0"	14' 2"	12' 10"	11' 3"	16' 0"	12' 8"	11' 8"
600S162-97	50	17' 4"	15' 9"	13' 9"	19' 6"	17' 8"	15' 6"	15' 9"	14' 3"	12' 6"	17' 8"	16' 1"	14' 1"
600S162-118	50	18' 3"	16' 8"	14' 7"	20' 7"	18' 8"	16' 3"	16' 8"	15' 1"	13' 2"	18' 8"	17' 0"	14' 10"
600S200-33	33	12' 0"	10' 4"	8' 6"	11' 7"	9' 8"	7' 6"	11' 10"	10' 4"	8' 6"	11' 7"	9' 8"	7' 6"
600S200-43	33	14' 3"	12' 4"	10' 1"	14' 3"	12' 4"	10' 0"	13' 0"	11' 9"	10' 1"	14' 3"	12' 4"	10' 0"
600S200-43 (50)	50	14' 3"	13' 0"	11' 4"	16' 1"	14' 2"	11' 6"	13' 0"	11' 9"	10' 3"	14' 7"	13' 3"	11' 6"
600S200-54	50	15' 4"	14' 0"	12' 2"	17' 2"	15' 8"	13' 6"	14' 0"	12' 8"	11' 1"	15' 8"	14' 6"	12' 4"
600S200-68	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	14' 8"	15' 0"	13' 7"	11' 10"	16' 9"	15' 3"	13' 3"
600S200-97	50	18' 3"	16' 7"	14' 6"	20' 6"	18' 8"	16' 3"	16' 7"	15' 1"	13' 2"	18' 8"	17' 0"	14' 9"
600S200-118	50	19' 4"	17' 7"	15' 4"	21' 8"	19' 8"	17' 2"	17' 7"	16' 0"	14' 0"	19' 8"	17' 10"	15' 8"
600S250-43	33	14' 8"	12' 8"	10' 4"	14' 8"	12' 8"	10' 2"	13' 7"	12' 4"	10' 4"	14' 8"	12' 8"	10' 2"
600S250-43 (50)	50	14' 9"	13' 4"	11' 8"	16' 7"	14' 6"	11' 6"	13' 4"	12' 2"	10' 8"	15' 1"	13' 8"	11' 6"
600S250-54	50	16' 0"	14' 7"	12' 8"	18' 0"	16' 3"	13' 9"	14' 7"	13' 2"	11' 7"	16' 3"	14' 9"	13' 0"
600S250-68	50	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4"	15' 8"	14' 3"	12' 6"	17' 7"	16' 0"	14' 0"
600S250-97	50	19' 2"	17' 6"	15' 3"	21' 7"	19' 7"	17' 1"	17' 6"	15' 10"	13' 10"	19' 7"	17' 9"	15' 7"
600S250-118	50	20' 4"	18' 6"	16' 2"	22' 9"	20' 9"	18' 1"	18' 6"	16' 9"	14' 8"	20' 9"	18' 10"	16' 6"
600S300-54	50	16' 4"	14' 10"	13' 0"	18' 4"	16' 8"	14' 0"	14' 10"	13' 6"	11' 9"	16' 8"	15' 2"	13' 3"
600S300-68	50	17' 9"	16' 2"	14' 2"	20' 0"	18' 2"	15' 10"	16' 2"	14' 8"	12' 10"	18' 2"	16' 6"	14' 4"
600S300-97	50	20' 0"	18' 2"	15' 10"	22' 4"	20' 4"	17' 9"	18' 2"	16' 6"	14' 4"	20' 4"	18' 6"	16' 2"
600S300-118	50	21' 3"	19' 3"	16' 10"	23' 10"	21' 8"	18' 10"	19' 3"	17' 6"	15' 3"	21' 8"	19' 8"	17' 2"
800S137-33	33	12' 0"	10' 4"	8' 6"	10' 9"	8' 9"	6' 6"	12' 0"	10' 4"	8' 6"	10' 9"	8' 9"	6' 6"
800S137-43	33	14' 6"	12' 7"	10' 3"	14' 6"	12' 4"	9' 9"	14' 6"	12' 7"	10' 3"	14' 6"	12' 4"	9' 9"
800S137-43 (50)	50	16' 2"	14' 3"	11' 8"	16' 6"	14' 1"	11' 0"	14' 8"	13' 4"	11' 8"	16' 6"	14' 1"	11' 0"
800S137-54	50	17' 7"	16' 0"	13' 9"	19' 6"	16' 10"	13' 9"	16' 0"	14' 6"	12' 8"	17' 10"	16' 3"	13' 9"
800S137-68	50	19' 0"	17' 3"	15' 1"	21' 4"	19' 4"	16' 2"	17' 3"	15' 8"	13' 8"	19' 4"	17' 7"	15' 4"
800S137-97	50	21' 1"	19' 2"	16' 8"	23' 8"	21' 6"	18' 9"	19' 2"	17' 4"	15' 2"	21' 6"	19' 7"	17' 1"
800S162-33	33	13' 0"	11' 2"	9' 2"	11' 2"	9' 1"	6' 8"	13' 0"	11' 2"	9' 2"	11' 2"	9' 1"	6' 8"
800S162-43	33	15' 7"	13' 6"	11' 1"	15' 4"	13' 1"	10' 3"	15' 6"	13' 6"	11' 1"	15' 4"	13' 1"	10' 3"
800S162-43 (50)	50	16' 10"	15' 4"	12' 7"	17' 2"	14' 7"	11' 3"	15' 4"	13' 10"	12' 2"	17' 2"	14' 7"	11' 3"
800S162-54	50	18' 3"	16' 7"	14' 6"	20' 6"	18' 1"	14' 9"	16' 7"	15' 1"	13' 2"	18' 8"	17' 0"	14' 9"
800S162-68	50	19' 9"	18' 0"	15' 8"	22' 2"	20' 2"	17' 3"	18' 0"	16' 3"	14' 3"	20' 2"	18' 3"	16' 0"
800S162-97	50	22' 0"	20' 0"	17' 4"	24' 8"	22' 4"	19' 7"	20' 0"	18' 1"	15' 9"	22' 4"	20' 4"	17' 9"
800S162-118	50	23' 3"	21' 1"	18' 6"	26' 1"	23' 8"	20' 8"	21' 1"	19' 2"	16' 9"	23' 8"	21' 6"	18' 9"
800S200-43	33	16' 8"	14' 6"	11' 9"	16' 8"	14' 6"	11' 3"	16' 3"	14' 6"	11' 9"	16' 8"	14' 6"	11' 3"
800S200-43 (50)	50	18' 0"	16' 3"	13' 6"	18' 9"	15' 9"	12' 1"	16' 3"	14' 9"	13' 0"	18' 3"	15' 9"	12' 1"
800S200-54	50	19' 3"	17' 6"	15' 3"	21' 8"	19' 3"	15' 9"	17' 6"	15' 10"	13' 10"	19' 8"	17' 10"	15' 7"
800S200-68	50	20' 8"	18' 9"	16' 4"	23' 3"	21' 1"	18' 6"	18' 9"	17' 1"	14' 10"	21' 1"	19' 2"	16' 9"
800S200-97	50	23' 0"	20' 10"	18' 3"	25' 10"	23' 6"	20' 6"	20' 10"	19' 0"	16' 7"	23' 6"	21' 4"	18' 8"
800S200-118	50	24' 4"	22' 2"	19' 4"	27' 4"	24' 10"	21' 8"	22' 2"	20' 2"	17' 7"	24' 10"	22' 7"	19' 9"
800S250-43	33	17' 2"	14' 10"	12' 1"	17' 2"	14' 7"	11' 3"	17' 0"	14' 10"	12' 1"	17' 2"	14' 7"	11' 3"
800S250-43 (50)	50	18' 6"	16' 9"	13' 9"	18' 10"	15' 10"	12' 2"	16' 9"	15' 3"	13' 3"	18' 10"	15' 10"	12' 2"
800S250-54	50	20' 0"	18' 2"	15' 10"	22' 6"	19' 9"	16' 2"	18' 2"	16' 6"	14' 4"	20' 4"	18' 7"	16' 2"
800S250-68	50	21' 7"	19' 8"	17' 2"	24' 3"	22' 1"	18' 10"	19' 8"	17' 10"	15' 7"	22' 1"	20' 0"	17' 6"
800S250-97	50	24' 1"	21' 10"	19' 1"	27' 0"	24' 7"	21' 6"	21' 10"	19' 10"	17' 4"	24' 7"	22' 3"	19' 6"
800S250-118	50	25' 6"	23' 2"	20' 3"	28' 8"	26' 0"	22' 9"	23' 2"	21' 1"	18' 4"	26' 0"	23' 8"	20' 8"
800S300-54	50	20' 4"	18' 7"	16' 2"	22' 10"	20' 1"	16' 4"	18' 7"	16' 10"	14' 8"	20' 9"	18' 10"	16' 4"
800S300-68	50	22' 3"	20' 2"	17' 8"	25' 0"	22' 8"	19' 2"	20' 2"	18' 4"	16' 0"	22' 8"	20' 7"	18' 0"
800S300-97	50	25' 0"	22' 8"	19' 9"	28' 0"	25' 6"	22' 2"	22' 8"	20' 7"	18' 0"	25' 6"	23' 1"	20' 2"
800S300-118	50	26' 7"	24' 1"	21' 1"	29' 9"	27' 1"	23' 8"	24' 1"	21' 10"	19' 2"	27' 1"	24' 7"	21' 6"
1000S162-33	33	14' 3"	11' 3"	7' 6"	10' 7"	8' 3"	5' 9"	14' 3"	11' 3"	7' 6"	10' 7"	8' 3"	5' 9"
1000S162-43	33	17' 3"	15' 0"	12' 2"	16' 4"	13' 8"	10' 4"	17' 3"	15' 0"	12' 2"	16' 4"	13' 8"	10' 4"
1000S162-43 (50)	50	19' 7"	17' 0"	13' 10"	18' 0"	14' 10"	11' 1"	18' 2"	16' 6"	13' 10"	18' 0"	14' 10"	11' 1"
1000S162-54	50	21' 8"	19' 9"	16' 4"	23' 2"	20' 1"	15' 10"	19' 9"	17' 10"	15' 8"	22' 2"	20' 1"	15' 10"
1000S162-68	50	23' 7"	21' 4"	18' 8"	26' 6"	23' 8"	19' 4"	21' 4"	19' 6"	17' 0"	24' 1"	21' 10"	19' 1"
1000S162-97	50	26' 6"	24' 0"	21' 0"	29' 8"	27' 0"	23' 7"	24' 0"	21' 9"	19' 1"	27' 0"	24' 6"	21' 4"
1000S162-118	50	28' 0"	25' 6"	22' 3"	31' 6"	28' 7"	25' 0"	25' 6"	23' 1"	20' 2"	28' 7"	26' 0"	22' 8"
1000S200-43	33	18' 8"	16' 2"	13' 2"	17' 2"	14' 3"	10' 8"	18' 8"	16' 2"	13' 2"	17' 2"	14' 3"	10' 8"
1000S200-43 (50)	50	20' 10"	18' 4"	15' 0"	18' 10"	15' 6"	11' 4"	19' 0"	17' 3"	15' 0"	18' 10"	15' 6"	11' 4"
1000S200-54	50	22' 8"	20' 7"	17' 7"	24' 7"	20' 10"	16' 4"	20' 7"	18' 9"	16' 4"	23' 2"	20' 10"	16' 4"
1000S200-68	50	24' 7"	22' 4"	19' 7"	27' 8"	25' 1"	20' 8"	22' 4"	20' 3"	17' 9"	25' 1"	22' 9"	19' 10"
1000S200-97	50	27' 7"	25' 1"	21' 10"	31' 0"	28' 2"	24' 7"	25' 1"	22' 9"	19' 10"	28' 2"	25' 7"	22' 4"
1000S200-118	50	29' 3"	26' 7"	23' 3"	32' 10"	29' 10"	26' 1"	26' 7"	24' 2"	21' 1"	29' 10"	27' 2"	23' 8"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

10 psf Dead Load and 40 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-43	33	19' 2"	16' 7"	13' 7"	17' 9"	14' 8"	11' 0"	19' 2"	16' 7"	13' 7"	17' 9"	14' 8"	11' 0"
1000S250-43 (50)	50	21' 9"	18' 9"	15' 4"	19' 3"	15' 9"	11' 7"	19' 9"	15' 0"	15' 4"	19' 3"	15' 9"	11' 7"
1000S250-54	50	23' 10"	21' 8"	18' 1"	25' 7"	21' 8"	17' 0"	21' 8"	19' 8"	17' 2"	24' 4"	21' 8"	17' 0"
1000S250-68	50	25' 9"	23' 6"	20' 6"	29' 0"	26' 1"	21' 3"	23' 6"	21' 3"	18' 7"	26' 3"	23' 10"	20' 10"
1000S250-97	50	28' 9"	26' 2"	22' 9"	32' 3"	29' 4"	25' 7"	26' 2"	23' 9"	20' 9"	29' 4"	26' 8"	23' 3"
1000S250-118	50	30' 6"	27' 9"	24' 2"	34' 3"	31' 2"	27' 2"	27' 9"	25' 2"	22' 0"	31' 2"	28' 3"	24' 8"
1000S300-54	50	24' 3"	22' 1"	18' 4"	25' 9"	21' 9"	17' 1"	22' 1"	20' 1"	17' 6"	24' 9"	21' 9"	17' 1"
1000S300-68	50	26' 6"	24' 1"	21' 0"	29' 8"	26' 6"	21' 8"	24' 1"	21' 10"	19' 1"	27' 0"	24' 6"	21' 4"
1000S300-97	50	29' 9"	27' 0"	23' 7"	33' 4"	30' 3"	26' 6"	27' 0"	24' 7"	21' 6"	30' 3"	27' 7"	24' 1"
1000S300-118	50	31' 8"	28' 9"	25' 1"	35' 7"	32' 3"	28' 2"	28' 9"	26' 2"	22' 9"	32' 3"	29' 4"	25' 7"
1000S350-54	50	25' 8"	23' 3"	20' 4"	28' 1"	23' 8"	18' 3"	23' 3"	21' 2"	18' 6"	26' 2"	23' 8"	18' 3"
1000S350-68	50	28' 0"	25' 6"	22' 2"	31' 4"	28' 7"	24' 0"	25' 6"	23' 1"	20' 2"	28' 7"	26' 0"	22' 8"
1000S350-97	50	31' 3"	28' 6"	24' 10"	35' 2"	32' 0"	27' 10"	28' 6"	25' 10"	22' 7"	32' 0"	29' 0"	25' 4"
1000S350-118	50	33' 3"	30' 2"	26' 4"	37' 4"	34' 0"	29' 8"	30' 2"	27' 6"	24' 0"	34' 0"	30' 9"	26' 10"
1200S162-43	33	18' 7"	16' 1"	13' 2"	16' 7"	13' 6"	9' 9"	18' 7"	16' 1"	13' 2"	16' 7"	13' 6"	9' 9"
1200S162-43 (50)	50	21' 0"	18' 2"	13' 10"	17' 9"	14' 3"	10' 2"	20' 10"	18' 2"	13' 10"	17' 9"	14' 3"	10' 2"
1200S162-54	50	25' 0"	21' 7"	17' 8"	25' 0"	21' 0"	16' 1"	22' 8"	20' 7"	17' 8"	25' 0"	21' 0"	16' 1"
1200S162-68	50	27' 2"	24' 8"	21' 0"	29' 8"	25' 8"	21' 0"	24' 8"	22' 6"	19' 7"	27' 9"	25' 2"	21' 0"
1200S162-97	50	30' 9"	28' 0"	24' 6"	34' 7"	31' 4"	27' 2"	28' 0"	25' 6"	22' 2"	31' 4"	28' 7"	25' 0"
1200S162-118	50	32' 8"	29' 9"	26' 0"	36' 9"	33' 4"	29' 2"	29' 9"	27' 0"	23' 7"	33' 4"	30' 3"	26' 6"
1200S200-54	50	26' 1"	23' 4"	19' 1"	25' 10"	21' 8"	16' 6"	23' 8"	21' 6"	18' 9"	25' 10"	21' 8"	16' 6"
1200S200-68	50	28' 4"	25' 9"	22' 6"	31' 10"	27' 8"	22' 7"	25' 9"	23' 4"	20' 3"	28' 4"	25' 9"	22' 7"
1200S200-97	50	32' 1"	29' 2"	25' 6"	36' 0"	32' 8"	28' 7"	29' 2"	26' 6"	23' 2"	32' 8"	29' 8"	26' 0"
1200S200-118	50	34' 1"	31' 0"	27' 1"	38' 3"	34' 9"	30' 4"	31' 0"	28' 2"	24' 7"	34' 9"	31' 7"	27' 7"
1200S250-54	50	27' 2"	24' 2"	19' 8"	26' 2"	21' 10"	16' 8"	24' 8"	22' 6"	19' 7"	26' 2"	21' 10"	16' 8"
1200S250-68	50	29' 7"	26' 10"	23' 3"	33' 0"	28' 6"	22' 8"	26' 10"	24' 4"	21' 3"	30' 2"	27' 4"	22' 8"
1200S250-97	50	33' 4"	30' 3"	26' 6"	37' 6"	34' 0"	29' 8"	30' 3"	27' 6"	24' 1"	34' 0"	30' 10"	27' 0"
1200S250-118	50	35' 4"	32' 2"	28' 1"	39' 9"	36' 1"	31' 7"	32' 2"	29' 3"	25' 7"	36' 1"	32' 9"	28' 8"
1200S300-54	50	28' 2"	24' 7"	20' 1"	26' 9"	22' 4"	17' 0"	25' 7"	23' 2"	20' 1"	26' 9"	22' 4"	17' 0"
1200S300-68	50	30' 8"	27' 10"	23' 9"	33' 7"	29' 1"	23' 8"	27' 10"	25' 4"	22' 1"	31' 3"	28' 6"	23' 8"
1200S300-97	50	34' 6"	31' 4"	27' 4"	38' 8"	35' 2"	30' 8"	31' 4"	28' 6"	24' 10"	35' 2"	32' 0"	27' 10"
1200S300-118	50	36' 8"	33' 3"	29' 1"	41' 2"	37' 4"	32' 8"	33' 3"	30' 3"	26' 4"	37' 4"	34' 0"	29' 8"
1200S350-54	50	29' 7"	26' 10"	22' 6"	29' 0"	24' 0"	18' 0"	26' 10"	24' 6"	21' 4"	29' 0"	24' 0"	18' 0"
1200S350-68	50	32' 4"	29' 4"	25' 8"	36' 3"	32' 4"	25' 8"	29' 4"	26' 8"	23' 3"	33' 0"	30' 0"	25' 8"
1200S350-97	50	36' 2"	32' 10"	28' 8"	40' 7"	36' 10"	32' 2"	32' 10"	29' 9"	26' 1"	36' 10"	33' 6"	29' 3"
1200S350-118	50	38' 4"	34' 10"	30' 6"	43' 2"	39' 2"	34' 2"	34' 10"	31' 8"	27' 8"	39' 2"	35' 7"	31' 1"
1400S162-54	50	26' 4"	22' 9"	18' 7"	25' 8"	21' 1"	15' 8"	25' 7"	22' 9"	18' 7"	25' 8"	21' 1"	15' 8"
1400S162-68	50	30' 8"	27' 3"	22' 3"	31' 6"	27' 3"	22' 3"	27' 10"	25' 3"	22' 1"	31' 3"	27' 3"	22' 3"
1400S162-97	50	34' 10"	31' 8"	27' 8"	39' 2"	35' 7"	29' 2"	31' 8"	28' 9"	25' 4"	35' 7"	32' 4"	28' 3"
1400S162-118	50	37' 4"	34' 0"	29' 8"	42' 0"	38' 2"	33' 3"	34' 0"	30' 10"	27' 0"	38' 2"	34' 8"	30' 3"
1400S200-54	50	28' 8"	24' 9"	20' 3"	26' 4"	21' 8"	16' 0"	26' 7"	24' 2"	20' 3"	26' 4"	21' 8"	16' 0"
1400S200-68	50	31' 10"	29' 0"	24' 1"	30' 4"	26' 1"	20' 0"	29' 0"	26' 4"	23' 0"	29' 0"	26' 1"	20' 0"
1400S200-97	50	36' 3"	33' 0"	28' 9"	40' 8"	37' 0"	31' 3"	33' 0"	30' 0"	26' 2"	37' 0"	33' 7"	29' 4"
1400S200-118	50	38' 10"	35' 3"	30' 9"	43' 7"	39' 7"	34' 7"	35' 3"	32' 1"	28' 0"	39' 7"	36' 0"	31' 6"
1400S250-54	50	29' 9"	25' 9"	21' 1"	26' 8"	21' 10"	16' 1"	27' 7"	25' 1"	21' 1"	26' 8"	21' 10"	16' 1"
1400S250-68	50	33' 2"	30' 2"	25' 0"	36' 4"	30' 4"	23' 6"	30' 2"	27' 4"	23' 10"	33' 10"	30' 0"	23' 6"
1400S250-97	50	37' 8"	34' 2"	29' 10"	42' 3"	38' 4"	32' 6"	34' 2"	31' 1"	27' 2"	38' 4"	34' 10"	30' 6"
1400S250-118	50	40' 2"	36' 7"	31' 10"	45' 2"	41' 0"	35' 10"	36' 7"	33' 2"	29' 0"	41' 0"	37' 3"	32' 7"
1400S300-54	50	30' 6"	26' 4"	21' 7"	26' 10"	22' 0"	16' 2"	28' 1"	25' 7"	21' 7"	26' 10"	22' 0"	16' 2"
1400S300-68	50	34' 1"	31' 0"	25' 7"	35' 9"	30' 4"	23' 9"	31' 0"	28' 2"	24' 7"	34' 9"	30' 4"	23' 9"
1400S300-97	50	38' 10"	35' 4"	30' 10"	43' 8"	39' 8"	33' 2"	35' 4"	32' 1"	28' 1"	39' 8"	36' 1"	31' 6"
1400S300-118	50	41' 6"	37' 9"	33' 0"	46' 7"	42' 4"	37' 0"	37' 9"	34' 3"	30' 0"	42' 4"	38' 6"	33' 7"
1400S350-54	50	33' 0"	29' 8"	23' 6"	28' 10"	23' 4"	16' 10"	30' 0"	27' 3"	23' 6"	28' 10"	23' 4"	16' 10"
1400S350-68	50	36' 7"	33' 2"	28' 7"	40' 0"	33' 8"	26' 1"	33' 2"	30' 2"	26' 4"	37' 3"	33' 8"	26' 1"
1400S350-97	50	40' 10"	37' 1"	32' 4"	45' 10"	41' 8"	36' 4"	37' 1"	33' 8"	29' 6"	41' 8"	37' 10"	33' 1"
1400S350-118	50	43' 6"	39' 6"	34' 6"	48' 9"	44' 3"	38' 8"	39' 6"	35' 10"	31' 3"	44' 3"	40' 3"	35' 2"
1600S162-68	50	33' 0"	28' 7"	23' 4"	33' 0"	28' 7"	22' 9"	30' 10"	28' 1"	23' 4"	33' 0"	28' 7"	22' 9"
1600S162-97	50	38' 10"	35' 3"	30' 10"	43' 7"	37' 9"	30' 10"	35' 3"	32' 1"	28' 0"	39' 8"	36' 0"	30' 10"
1600S162-118	50	41' 9"	37' 10"	33' 1"	46' 10"	42' 7"	35' 10"	37' 10"	34' 6"	30' 1"	42' 7"	38' 8"	33' 9"
1600S200-68	50	35' 4"	31' 0"	25' 3"	35' 9"	30' 9"	23' 8"	32' 2"	29' 2"	25' 3"	35' 9"	30' 9"	23' 8"
1600S200-97	50	40' 4"	36' 8"	32' 0"	45' 3"	40' 7"	33' 2"	36' 8"	33' 3"	29' 1"	41' 2"	37' 4"	32' 8"
1600S200-118	50	43' 3"	39' 3"	34' 4"	48' 7"	44' 2"	38' 6"	39' 3"	35' 9"	31' 2"	44' 2"	40' 1"	35' 1"
1600S250-68	50	36' 8"	32' 4"	26' 4"	36' 9"	30' 10"	23' 9"	33' 3"	30' 3"	26' 4"	36' 9"	30' 10"	23' 9"
1600S250-97	50	41' 9"	37' 10"	33' 1"	46' 10"	42' 3"	34' 6"	37' 10"	34' 6"	30' 1"	42' 7"	38' 8"	33' 9"
1600S250-118	50	44' 9"	40' 8"	35' 6"	50' 3"	45' 8"	39' 10"	40' 8"	37' 0"	32' 3"	45' 8"	41' 6"	36' 2"
1600S300-68	50	37' 6"	33' 3"	27' 2"	37' 2"	31' 3"	24' 0"	34' 1"	31' 0"	27' 1"	37' 2"	31' 3"	24' 0"
1600S300-97	50	43' 0"	39' 1"	34' 1"	48' 3"	43' 4"	35' 4"	39' 1"	35' 6"	31' 0"	43' 10"	39' 10"	34' 9"
1600S300-118	50	46' 2"	42' 0"	36' 8"	51' 10"	47' 1"	41' 1"	42' 0"	38' 1"	33' 3"	47' 1"	42' 9"	37' 4"
1600S350-68	50	39' 7"	36' 0"	30' 4"	40' 4"	33' 8"	25' 7"	32' 8"	32' 8"	28' 7"	40' 4"	33' 8"	25' 7"
1600S350-97	50	45' 0"	40' 10"	35' 9"	50' 7"	45' 10"	39' 1"	40' 10"	37' 2"	32' 6"	45' 10"	41' 8"	36' 6"
1600S350-118	50	48' 3"	43' 9"	38' 3"	54' 2"	49' 2"	43' 0"	43' 9"	39' 9"	34' 9"	49' 2"	44' 8"	39' 1"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

10 psf Dead Load and 50 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	9' 6"	8' 3"	6' 8"	9' 2"	7' 8"	6' 0"	9' 6"	8' 3"	6' 8"	9' 2"	7' 8"	6' 0"
600S137-43	33	11' 6"	9' 10"	8' 1"	11' 6"	9' 10"	7' 10"	11' 0"	9' 10"	8' 1"	11' 6"	9' 10"	7' 10"
600S137-43 (50)	50	12' 1"	11' 0"	9' 3"	13' 1"	11' 3"	9' 0"	11' 0"	10' 0"	8' 8"	12' 3"	11' 2"	9' 0"
600S137-54	50	13' 0"	11' 9"	10' 3"	14' 7"	13' 3"	10' 9"	11' 9"	10' 8"	9' 4"	13' 3"	12' 1"	10' 6"
600S137-68	50	13' 10"	12' 8"	11' 1"	15' 7"	14' 2"	12' 4"	12' 8"	11' 6"	10' 0"	14' 2"	12' 10"	11' 3"
600S137-97	50	15' 4"	14' 0"	12' 2"	17' 3"	15' 8"	13' 8"	14' 0"	12' 8"	11' 1"	15' 8"	14' 3"	12' 6"
600S162-33	33	10' 3"	8' 10"	7' 3"	10' 1"	8' 4"	6' 4"	10' 3"	8' 10"	7' 3"	10' 1"	8' 4"	6' 4"
600S162-43	33	12' 7"	11' 0"	9' 0"	12' 8"	11' 0"	8' 9"	11' 6"	10' 4"	9' 0"	12' 8"	11' 0"	8' 9"
600S162-43 (50)	50	12' 7"	11' 6"	10' 0"	14' 1"	12' 2"	9' 8"	11' 6"	10' 4"	9' 1"	12' 10"	11' 8"	9' 8"
600S162-54	50	13' 7"	12' 3"	10' 9"	15' 2"	13' 9"	12' 0"	12' 3"	11' 2"	9' 9"	13' 9"	12' 7"	11' 0"
600S162-68	50	14' 7"	13' 2"	11' 6"	16' 3"	14' 9"	13' 0"	13' 2"	12' 0"	10' 6"	14' 9"	13' 6"	11' 9"
600S162-97	50	16' 1"	14' 8"	12' 9"	18' 1"	16' 4"	14' 4"	14' 8"	13' 3"	11' 7"	16' 4"	14' 10"	13' 1"
600S162-118	50	17' 0"	15' 6"	13' 6"	19' 1"	17' 4"	15' 2"	15' 6"	14' 1"	12' 3"	17' 4"	15' 9"	13' 9"
600S200-33	33	10' 10"	9' 6"	7' 8"	10' 4"	8' 8"	6' 7"	10' 10"	9' 6"	7' 8"	10' 4"	8' 8"	6' 7"
600S200-43	33	13' 1"	11' 3"	9' 2"	13' 1"	11' 3"	9' 0"	12' 1"	11' 0"	9' 2"	13' 1"	11' 3"	9' 0"
600S200-43 (50)	50	13' 3"	12' 1"	10' 6"	14' 10"	13' 0"	10' 3"	12' 1"	11' 0"	9' 7"	13' 6"	12' 3"	10' 3"
600S200-54	50	14' 3"	13' 0"	11' 3"	16' 0"	14' 6"	12' 2"	13' 0"	11' 9"	10' 3"	14' 6"	13' 2"	11' 6"
600S200-68	50	15' 3"	13' 10"	12' 1"	17' 2"	15' 7"	13' 7"	13' 10"	12' 7"	11' 0"	15' 7"	14' 2"	12' 4"
600S200-97	50	17' 0"	15' 4"	13' 6"	19' 1"	17' 3"	15' 1"	15' 4"	14' 0"	12' 3"	17' 3"	15' 8"	13' 9"
600S200-118	50	18' 0"	16' 3"	14' 3"	20' 2"	18' 3"	16' 0"	16' 3"	14' 9"	13' 0"	18' 3"	16' 8"	14' 6"
600S250-43	33	13' 4"	11' 7"	9' 6"	13' 4"	11' 7"	9' 2"	12' 7"	11' 6"	9' 6"	13' 4"	11' 7"	9' 2"
600S250-43 (50)	50	13' 8"	12' 6"	10' 9"	15' 3"	13' 2"	10' 3"	12' 6"	11' 3"	9' 10"	14' 0"	12' 8"	10' 3"
600S250-54	50	14' 10"	13' 6"	11' 9"	16' 8"	15' 2"	12' 6"	13' 6"	12' 3"	10' 8"	15' 2"	13' 9"	12' 0"
600S250-68	50	16' 0"	14' 7"	12' 8"	18' 0"	16' 4"	14' 3"	14' 7"	13' 2"	11' 7"	16' 4"	14' 10"	13' 0"
600S250-97	50	17' 9"	16' 2"	14' 2"	20' 0"	18' 2"	15' 10"	16' 2"	14' 8"	12' 10"	18' 2"	16' 6"	14' 4"
600S250-118	50	18' 10"	17' 2"	15' 0"	21' 2"	19' 3"	16' 9"	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	15' 3"
600S250-118	50	15' 2"	13' 9"	12' 1"	17' 1"	15' 6"	12' 8"	13' 9"	12' 6"	11' 0"	15' 6"	14' 1"	12' 3"
600S300-68	50	16' 7"	15' 0"	13' 1"	18' 7"	16' 10"	14' 9"	15' 0"	13' 8"	11' 10"	16' 10"	15' 3"	13' 4"
600S300-97	50	18' 7"	16' 10"	14' 8"	20' 9"	18' 10"	16' 6"	16' 10"	15' 3"	13' 4"	18' 10"	17' 2"	15' 0"
600S300-118	50	19' 8"	17' 10"	15' 8"	22' 1"	20' 1"	17' 7"	17' 10"	16' 3"	14' 2"	20' 1"	18' 3"	16' 0"
800S137-33	33	10' 10"	9' 4"	7' 8"	9' 6"	7' 8"	5' 7"	10' 10"	9' 4"	7' 8"	9' 6"	7' 8"	5' 7"
800S137-43	33	13' 2"	11' 6"	9' 4"	13' 2"	11' 2"	8' 9"	13' 2"	11' 6"	9' 4"	13' 2"	11' 2"	8' 9"
800S137-43 (50)	50	15' 1"	13' 0"	10' 8"	15' 0"	12' 7"	9' 8"	13' 8"	12' 4"	10' 8"	15' 0"	12' 7"	9' 8"
800S137-54	50	16' 3"	14' 9"	12' 7"	17' 9"	15' 4"	12' 7"	14' 9"	13' 6"	11' 9"	16' 8"	15' 1"	12' 7"
800S137-68	50	17' 8"	16' 0"	14' 0"	19' 9"	18' 0"	14' 9"	16' 0"	14' 7"	12' 8"	18' 0"	16' 4"	14' 3"
800S137-97	50	19' 7"	17' 9"	15' 6"	22' 0"	20' 0"	17' 6"	17' 9"	16' 2"	14' 1"	20' 0"	18' 1"	15' 10"
800S162-33	33	11' 9"	10' 3"	7' 10"	9' 10"	8' 0"	5' 8"	11' 9"	10' 3"	7' 10"	9' 10"	8' 0"	5' 8"
800S162-43	33	14' 3"	12' 4"	10' 1"	13' 10"	11' 9"	9' 2"	14' 3"	12' 4"	10' 1"	13' 10"	11' 9"	9' 2"
800S162-43 (50)	50	15' 8"	14' 1"	11' 6"	15' 6"	13' 0"	10' 0"	14' 2"	12' 10"	11' 3"	15' 6"	13' 0"	10' 0"
800S162-54	50	17' 0"	15' 4"	13' 6"	19' 1"	16' 6"	13' 4"	15' 4"	14' 0"	12' 3"	17' 3"	15' 8"	13' 4"
800S162-68	50	18' 4"	16' 8"	14' 7"	20' 7"	18' 8"	15' 9"	16' 8"	15' 2"	13' 2"	18' 8"	17' 0"	14' 10"
800S162-97	50	20' 4"	18' 6"	16' 2"	22' 10"	20' 9"	18' 2"	18' 6"	16' 9"	14' 8"	20' 9"	18' 10"	16' 6"
800S162-118	50	21' 7"	19' 7"	17' 1"	24' 2"	22' 0"	19' 2"	19' 7"	17' 9"	15' 7"	22' 0"	20' 0"	17' 6"
800S200-43	33	15' 3"	13' 2"	10' 9"	15' 3"	12' 10"	10' 0"	15' 1"	13' 2"	10' 9"	15' 3"	12' 10"	10' 0"
800S200-43 (50)	50	16' 8"	15' 1"	12' 3"	16' 9"	14' 1"	10' 8"	15' 1"	13' 9"	12' 0"	16' 9"	14' 1"	10' 8"
800S200-54	50	17' 10"	16' 3"	14' 2"	20' 1"	17' 7"	14' 4"	16' 3"	14' 9"	12' 10"	18' 3"	16' 7"	14' 4"
800S200-68	50	19' 2"	17' 6"	15' 3"	21' 7"	19' 7"	17' 1"	17' 6"	15' 10"	13' 10"	19' 7"	17' 9"	15' 7"
800S200-97	50	21' 4"	19' 4"	17' 0"	24' 0"	21' 9"	19' 1"	19' 4"	17' 8"	15' 4"	21' 9"	19' 9"	17' 3"
800S200-118	50	22' 8"	20' 7"	18' 0"	25' 4"	23' 1"	20' 2"	20' 7"	18' 8"	16' 3"	23' 1"	21' 0"	18' 3"
800S250-43	33	15' 8"	13' 7"	11' 1"	15' 6"	13' 0"	10' 0"	15' 8"	13' 7"	11' 1"	15' 6"	13' 0"	10' 0"
800S250-43 (50)	50	17' 2"	15' 4"	12' 7"	16' 10"	14' 1"	10' 8"	15' 7"	14' 2"	12' 4"	16' 10"	14' 1"	10' 8"
800S250-54	50	18' 7"	16' 10"	14' 8"	20' 10"	18' 1"	14' 8"	16' 10"	15' 3"	13' 4"	19' 0"	17' 2"	14' 8"
800S250-68	50	20' 1"	18' 2"	15' 10"	22' 6"	20' 6"	17' 3"	18' 2"	16' 7"	14' 6"	20' 6"	18' 7"	16' 3"
800S250-97	50	22' 4"	20' 3"	17' 8"	25' 1"	22' 9"	19' 10"	20' 3"	18' 6"	16' 1"	22' 9"	20' 8"	18' 1"
800S250-118	50	23' 8"	21' 6"	18' 9"	26' 7"	24' 2"	21' 1"	21' 6"	19' 7"	17' 1"	24' 2"	22' 0"	19' 2"
800S300-54	50	19' 0"	17' 2"	15' 0"	21' 1"	18' 3"	14' 8"	17' 2"	15' 8"	13' 8"	19' 3"	17' 7"	14' 8"
800S300-68	50	20' 8"	18' 9"	16' 4"	23' 2"	21' 1"	17' 7"	18' 9"	17' 1"	14' 10"	21' 1"	19' 1"	16' 8"
800S300-97	50	23' 2"	21' 1"	18' 4"	26' 0"	23' 7"	20' 8"	21' 1"	19' 1"	16' 8"	23' 7"	21' 6"	18' 9"
800S300-118	50	24' 8"	22' 4"	19' 7"	27' 8"	25' 2"	22' 0"	22' 4"	20' 4"	17' 9"	25' 2"	22' 10"	20' 0"
1000S162-33	33	12' 7"	9' 4"	6' 3"	9' 1"	7' 1"	4' 10"	12' 7"	9' 4"	6' 3"	9' 1"	7' 1"	4' 10"
1000S162-43	33	15' 9"	13' 8"	11' 2"	14' 8"	12' 1"	9' 1"	15' 9"	13' 8"	11' 2"	14' 8"	12' 1"	9' 1"
1000S162-43 (50)	50	17' 10"	15' 6"	12' 8"	16' 0"	13' 1"	9' 7"	16' 10"	15' 3"	12' 8"	16' 0"	13' 1"	9' 7"
1000S162-54	50	20' 2"	18' 3"	15' 0"	21' 2"	18' 1"	14' 2"	18' 3"	16' 8"	14' 7"	20' 7"	18' 1"	14' 2"
1000S162-68	50	21' 10"	19' 10"	17' 4"	24' 7"	21' 8"	17' 8"	19' 10"	18' 1"	15' 9"	22' 3"	20' 3"	17' 8"
1000S162-97	50	24' 7"	22' 3"	19' 6"	27' 7"	25' 1"	21' 10"	22' 3"	20' 3"	17' 8"	25' 1"	22' 9"	19' 10"
1000S162-118	50	26' 0"	23' 7"	20' 8"	29' 2"	26' 6"	23' 2"	23' 7"	21' 6"	18' 9"	26' 6"	24' 1"	21' 1"
1000S200-43	33	17' 0"	14' 9"	12' 1"	15' 3"	12' 7"	9' 4"	17' 0"	14' 9"	12' 1"	15' 3"	12' 7"	9' 4"
1000S200-43 (50)	50	19' 4"	16' 9"	13' 8"	16' 8"	13' 7"	9' 10"	17' 8"	16' 0"	13' 8"	16' 8"	13' 7"	9' 10"
1000S200-54	50	21' 1"	19' 2"	16' 1"	22' 2"	18' 8"	14' 7"	19' 2"	17' 4"	15' 2"	21' 6"	18' 8"	14' 7"
1000S200-68	50	22' 10"	20' 9"	18' 2"	25' 8"	23' 2"	18' 10"	20' 9"	18' 10"	16' 6"	23' 3"	21' 2"	18' 6"
1000S200-97	50	25' 8"	23' 3"	20' 4"	28' 9"	26' 2"	22' 10"	23' 3"	21' 2"	18' 6"	26' 2"	23' 9"	20' 9"
1000S200-118	50	27' 2"	24' 8"	21' 7"	30' 6"	27' 9"	24' 2"	24' 8"	22' 6"	19' 7"	27' 9"	25' 2"	22' 0"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

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10 psf Dead Load and 50 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			Two Equal Spans			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-43	33	17' 6"	15' 2"	12' 4"	15' 9"	13' 0"	9' 7"	17' 6"	15' 2"	12' 4"	15' 9"	13' 0"	9' 7"
1000S250-43 (50)	50	19' 10"	17' 2"	13' 10"	17' 0"	13' 9"	10' 0"	18' 4"	16' 8"	13' 10"	17' 0"	13' 9"	10' 0"
1000S250-54	50	22' 2"	20' 2"	16' 6"	23' 1"	19' 6"	15' 1"	20' 2"	18' 3"	16' 0"	22' 7"	19' 6"	15' 1"
1000S250-68	50	24' 0"	21' 9"	19' 0"	26' 10"	23' 9"	19' 6"	21' 9"	19' 9"	17' 3"	24' 4"	22' 2"	19' 4"
1000S250-97	50	26' 8"	24' 3"	21' 2"	30' 0"	27' 3"	23' 9"	24' 3"	22' 1"	19' 3"	27' 3"	24' 9"	21' 7"
1000S250-118	50	28' 4"	25' 9"	22' 6"	31' 9"	28' 10"	25' 3"	25' 9"	23' 4"	20' 4"	28' 10"	26' 3"	23' 0"
1000S300-54	50	22' 7"	20' 6"	16' 9"	23' 2"	19' 7"	15' 2"	20' 6"	18' 7"	16' 3"	23' 0"	19' 7"	15' 2"
1000S300-68	50	24' 7"	22' 3"	19' 6"	27' 7"	24' 2"	19' 9"	22' 3"	20' 3"	17' 8"	25' 1"	22' 9"	19' 9"
1000S300-97	50	27' 7"	25' 1"	21' 10"	31' 0"	28' 2"	24' 7"	25' 1"	22' 9"	19' 10"	28' 2"	25' 7"	22' 4"
1000S300-118	50	29' 4"	26' 8"	23' 3"	33' 0"	30' 0"	26' 2"	26' 8"	24' 3"	21' 2"	30' 0"	27' 3"	23' 9"
1000S350-54	50	23' 9"	21' 8"	18' 8"	25' 2"	21' 2"	16' 2"	21' 8"	19' 8"	17' 2"	24' 3"	21' 2"	16' 2"
1000S350-68	50	26' 0"	23' 7"	20' 7"	29' 2"	26' 6"	21' 10"	21' 6"	19' 10"	17' 8"	26' 6"	24' 1"	21' 1"
1000S350-97	50	29' 1"	26' 4"	23' 1"	32' 7"	29' 8"	25' 10"	26' 4"	24' 0"	21' 0"	29' 8"	26' 10"	23' 6"
1000S350-118	50	30' 10"	28' 1"	24' 6"	34' 8"	31' 6"	27' 6"	28' 1"	25' 6"	22' 3"	31' 6"	28' 7"	25' 0"
1200S162-43	33	17' 0"	14' 8"	11' 7"	14' 7"	11' 9"	8' 4"	17' 0"	14' 8"	11' 7"	14' 7"	11' 9"	8' 4"
1200S162-43 (50)	50	19' 2"	16' 7"	11' 7"	15' 6"	12' 3"	8' 8"	19' 2"	16' 7"	11' 7"	15' 6"	12' 3"	8' 8"
1200S162-54	50	22' 9"	19' 8"	16' 1"	22' 4"	18' 8"	14' 2"	21' 1"	19' 2"	16' 1"	22' 4"	18' 8"	14' 2"
1200S162-68	50	25' 3"	23' 0"	19' 2"	27' 1"	23' 6"	19' 2"	23' 0"	20' 10"	18' 2"	25' 9"	23' 4"	19' 2"
1200S162-97	50	28' 7"	26' 0"	22' 8"	32' 1"	29' 2"	24' 10"	26' 0"	23' 7"	20' 7"	29' 2"	26' 6"	23' 2"
1200S162-118	50	30' 4"	27' 7"	24' 1"	34' 1"	31' 0"	27' 1"	27' 7"	25' 1"	21' 10"	31' 0"	28' 2"	24' 7"
1200S200-54	50	24' 2"	21' 4"	17' 4"	23' 1"	19' 2"	14' 6"	22' 0"	20' 0"	17' 4"	23' 1"	19' 2"	14' 6"
1200S200-68	50	26' 3"	23' 10"	20' 7"	25' 3"	20' 3"	13' 10"	23' 10"	21' 8"	19' 0"	26' 10"	24' 4"	20' 3"
1200S200-97	50	29' 9"	27' 1"	23' 8"	33' 6"	30' 4"	26' 7"	27' 1"	24' 7"	21' 6"	30' 4"	27' 7"	24' 1"
1200S200-118	50	31' 8"	28' 9"	25' 1"	35' 7"	32' 3"	28' 2"	28' 9"	26' 1"	22' 9"	32' 3"	29' 3"	25' 7"
1200S250-54	50	25' 3"	22' 1"	18' 0"	23' 6"	19' 6"	14' 8"	22' 10"	20' 9"	18' 0"	23' 6"	19' 6"	14' 8"
1200S250-68	50	27' 4"	24' 10"	21' 3"	30' 1"	25' 9"	20' 4"	24' 10"	22' 8"	19' 9"	28' 0"	25' 4"	20' 4"
1200S250-97	50	31' 0"	28' 1"	24' 7"	34' 9"	31' 7"	27' 4"	28' 1"	25' 7"	22' 3"	31' 7"	28' 8"	25' 1"
1200S250-118	50	32' 10"	29' 10"	26' 1"	36' 10"	33' 6"	29' 3"	29' 10"	27' 2"	23' 8"	33' 6"	30' 6"	26' 7"
1200S300-54	50	26' 0"	22' 6"	18' 4"	23' 10"	19' 9"	14' 10"	23' 8"	21' 7"	18' 4"	23' 10"	19' 9"	14' 10"
1200S300-68	50	28' 6"	25' 10"	21' 8"	30' 8"	26' 7"	21' 2"	25' 10"	23' 6"	20' 7"	29' 1"	26' 4"	21' 2"
1200S300-97	50	32' 0"	29' 1"	25' 4"	36' 0"	32' 8"	28' 0"	29' 1"	26' 4"	23' 1"	32' 8"	29' 8"	25' 10"
1200S300-118	50	34' 0"	30' 10"	27' 0"	38' 2"	34' 8"	30' 3"	30' 10"	28' 1"	24' 6"	34' 8"	31' 6"	27' 7"
1200S350-54	50	27' 6"	25' 0"	20' 6"	25' 8"	21' 1"	15' 7"	25' 0"	22' 8"	19' 9"	25' 8"	21' 1"	15' 7"
1200S350-68	50	30' 0"	27' 3"	23' 9"	33' 8"	29' 3"	23' 0"	27' 3"	24' 9"	21' 8"	30' 7"	27' 9"	23' 0"
1200S350-97	50	33' 7"	30' 6"	26' 7"	34' 2"	29' 10"	23' 0"	30' 6"	27' 8"	24' 2"	34' 2"	31' 1"	27' 2"
1200S350-118	50	35' 8"	32' 4"	28' 3"	40' 1"	36' 4"	31' 9"	32' 4"	29' 6"	25' 8"	36' 4"	33' 1"	28' 10"
1400S162-54	50	24' 1"	20' 9"	17' 0"	22' 8"	18' 7"	13' 7"	23' 8"	20' 9"	17' 0"	22' 8"	18' 7"	13' 7"
1400S162-68	50	28' 6"	24' 10"	20' 4"	28' 9"	24' 10"	20' 1"	25' 10"	23' 6"	20' 4"	28' 9"	24' 10"	20' 1"
1400S162-97	50	32' 4"	29' 6"	25' 8"	32' 8"	28' 6"	23' 8"	29' 6"	26' 9"	23' 4"	33' 1"	30' 1"	26' 3"
1400S162-118	50	34' 8"	31' 7"	27' 7"	39' 0"	35' 4"	30' 10"	31' 7"	28' 8"	25' 0"	35' 4"	32' 2"	28' 1"
1400S200-54	50	26' 2"	22' 8"	18' 6"	23' 3"	19' 0"	13' 9"	24' 8"	22' 6"	18' 6"	23' 3"	19' 0"	13' 9"
1400S200-68	50	29' 8"	26' 10"	22' 0"	31' 1"	26' 9"	20' 10"	26' 10"	24' 6"	21' 4"	30' 2"	26' 9"	20' 10"
1400S200-97	50	33' 8"	30' 7"	26' 8"	37' 9"	34' 4"	28' 7"	30' 7"	27' 9"	24' 3"	34' 4"	31' 2"	27' 3"
1400S200-118	50	36' 1"	32' 9"	28' 7"	40' 6"	36' 9"	32' 1"	32' 9"	29' 9"	26' 0"	36' 9"	33' 4"	29' 2"
1400S250-54	50	27' 2"	23' 7"	19' 2"	23' 7"	19' 1"	13' 10"	25' 7"	23' 3"	19' 2"	23' 7"	19' 1"	13' 10"
1400S250-68	50	30' 9"	28' 0"	22' 9"	31' 10"	27' 0"	21' 0"	28' 0"	25' 6"	22' 2"	31' 4"	27' 0"	21' 0"
1400S250-97	50	35' 0"	31' 9"	27' 9"	39' 3"	35' 8"	29' 7"	31' 9"	28' 10"	25' 2"	35' 8"	32' 4"	28' 3"
1400S250-118	50	37' 4"	33' 10"	29' 8"	41' 10"	38' 1"	33' 3"	33' 10"	30' 9"	26' 10"	38' 1"	34' 7"	30' 2"
1400S300-54	50	27' 10"	24' 1"	19' 7"	23' 8"	19' 2"	14' 0"	26' 1"	23' 8"	19' 7"	23' 8"	19' 2"	14' 0"
1400S300-68	50	31' 8"	28' 7"	23' 4"	32' 3"	27' 3"	21' 2"	28' 9"	26' 1"	22' 9"	32' 3"	27' 3"	21' 2"
1400S300-97	50	36' 1"	32' 9"	28' 8"	40' 7"	36' 10"	30' 3"	32' 9"	29' 9"	26' 1"	36' 10"	33' 6"	29' 3"
1400S300-118	50	38' 7"	35' 0"	30' 7"	43' 3"	39' 3"	34' 4"	35' 0"	31' 9"	27' 9"	39' 3"	35' 8"	31' 2"
1400S350-54	50	30' 8"	27' 1"	19' 7"	25' 3"	20' 3"	14' 6"	27' 10"	25' 3"	19' 7"	25' 3"	20' 3"	14' 6"
1400S350-68	50	33' 10"	30' 9"	26' 1"	35' 10"	30' 1"	23' 1"	30' 9"	28' 0"	24' 6"	34' 7"	30' 1"	23' 1"
1400S350-97	50	37' 10"	34' 6"	30' 1"	42' 7"	38' 8"	33' 4"	34' 6"	31' 3"	27' 4"	38' 8"	35' 2"	30' 8"
1400S350-118	50	40' 4"	36' 8"	32' 0"	45' 3"	41' 2"	36' 0"	36' 8"	33' 3"	29' 1"	41' 2"	37' 4"	32' 8"
1600S162-68	50	30' 2"	26' 1"	21' 3"	30' 2"	26' 1"	20' 2"	28' 8"	26' 1"	21' 3"	30' 2"	26' 1"	20' 2"
1600S162-97	50	36' 1"	32' 9"	28' 2"	39' 9"	34' 6"	28' 2"	32' 9"	29' 9"	26' 0"	36' 9"	33' 4"	28' 2"
1600S162-118	50	38' 9"	35' 2"	30' 9"	43' 6"	39' 6"	32' 9"	35' 2"	32' 0"	28' 0"	39' 6"	35' 10"	31' 4"
1600S200-68	50	32' 8"	28' 3"	23' 1"	32' 8"	27' 4"	20' 10"	29' 10"	27' 1"	23' 1"	32' 8"	27' 4"	20' 10"
1600S200-97	50	37' 6"	34' 0"	29' 8"	42' 1"	37' 1"	30' 3"	34' 0"	30' 10"	27' 0"	38' 2"	34' 8"	30' 3"
1600S200-118	50	40' 2"	36' 6"	31' 10"	45' 1"	41' 0"	35' 1"	36' 6"	33' 2"	29' 0"	41' 0"	37' 3"	32' 6"
1600S250-68	50	34' 1"	29' 6"	24' 1"	33' 0"	27' 7"	21' 0"	30' 10"	28' 1"	24' 1"	33' 0"	27' 7"	21' 0"
1600S250-97	50	38' 9"	35' 2"	30' 9"	43' 6"	38' 7"	31' 6"	35' 2"	32' 0"	27' 10"	39' 6"	35' 10"	31' 4"
1600S250-118	50	41' 7"	37' 9"	33' 0"	46' 8"	42' 4"	36' 6"	37' 9"	34' 3"	30' 0"	42' 4"	38' 6"	33' 8"
1600S300-68	50	34' 10"	30' 4"	24' 9"	33' 4"	27' 9"	21' 2"	31' 8"	28' 9"	24' 9"	33' 4"	27' 9"	21' 2"
1600S300-97	50	39' 10"	36' 3"	31' 8"	44' 9"	39' 7"	32' 3"	36' 3"	33' 0"	28' 9"	40' 8"	37' 0"	32' 3"
1600S300-118	50	42' 10"	39' 0"	34' 0"	48' 1"	43' 8"	37' 6"	39' 0"	35' 4"	30' 10"	43' 8"	39' 8"	34' 8"
1600S350-68	50	36' 9"	33' 4"	27' 9"	36' 1"	29' 10"	22' 4"	30' 3"	28' 6"	26' 6"	36' 1"	29' 10"	22' 4"
1600S350-97	50	41' 9"	38' 0"	33' 2"	46' 10"	42' 7"	35' 4"	38' 0"	34' 6"	30' 2"	42' 7"	38' 8"	33' 9"
1600S350-118	50	44' 9"	40' 8"	35' 7"	50' 3"	45' 8"	39' 10"	40' 8"	37' 0"	32' 3"	45' 8"	41' 6"	36' 3"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

15 psf Dead Load and 125 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	6' 2"	5' 4"	4' 4"	5' 4"	4' 4"	3' 2"	6' 2"	5' 4"	4' 4"	5' 4"	4' 4"	3' 2"
600S137-43	33	7' 6"	6' 6"	5' 3"	7' 2"	6' 1"	4' 8"	7' 6"	6' 6"	5' 3"	7' 2"	6' 1"	4' 8"
600S137-43 (50)	50	8' 7"	7' 4"	6' 1"	8' 2"	6' 10"	5' 3"	8' 1"	7' 3"	6' 1"	8' 2"	6' 10"	5' 3"
600S137-54	50	9' 7"	8' 8"	7' 1"	10' 0"	8' 6"	6' 8"	8' 8"	7' 10"	6' 10"	9' 9"	8' 6"	6' 8"
600S137-68	50	10' 3"	9' 3"	8' 1"	11' 6"	10' 0"	8' 0"	9' 3"	8' 6"	7' 4"	10' 6"	9' 6"	8' 0"
600S137-97	50	11' 4"	10' 3"	9' 0"	12' 8"	11' 7"	10' 1"	10' 3"	9' 4"	8' 2"	11' 7"	10' 6"	9' 2"
600S162-33	33	6' 8"	5' 9"	4' 7"	5' 9"	4' 7"	3' 3"	6' 8"	5' 9"	4' 7"	5' 9"	4' 7"	3' 3"
600S162-43	33	8' 3"	7' 2"	5' 10"	8' 1"	6' 9"	5' 2"	8' 3"	7' 2"	5' 10"	8' 1"	6' 9"	5' 2"
600S162-43 (50)	50	9' 2"	8' 0"	6' 6"	8' 10"	7' 4"	5' 7"	8' 6"	7' 8"	6' 6"	8' 10"	7' 4"	5' 7"
600S162-54	50	10' 0"	9' 1"	7' 10"	11' 1"	9' 4"	7' 4"	9' 1"	8' 3"	7' 2"	10' 2"	9' 3"	7' 4"
600S162-68	50	10' 8"	9' 8"	8' 6"	12' 0"	10' 10"	8' 10"	9' 8"	8' 10"	7' 8"	10' 10"	9' 10"	8' 8"
600S162-97	50	11' 10"	10' 9"	9' 4"	13' 3"	12' 1"	10' 7"	10' 9"	9' 9"	8' 7"	12' 1"	11' 0"	9' 7"
600S162-118	50	12' 6"	11' 4"	10' 0"	14' 1"	12' 9"	11' 2"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 2"
600S200-33	33	7' 2"	6' 2"	4' 7"	5' 10"	4' 8"	3' 4"	7' 2"	6' 2"	4' 7"	5' 10"	4' 8"	3' 4"
600S200-43	33	8' 7"	7' 4"	6' 1"	8' 10"	6' 10"	5' 3"	8' 7"	7' 4"	6' 1"	8' 10"	6' 10"	5' 3"
600S200-43 (50)	50	9' 9"	8' 6"	6' 10"	9' 3"	7' 8"	5' 9"	8' 10"	8' 1"	6' 10"	9' 3"	7' 8"	5' 9"
600S200-54	50	10' 6"	9' 6"	8' 1"	11' 2"	9' 6"	7' 4"	9' 6"	8' 8"	7' 7"	10' 8"	9' 6"	7' 4"
600S200-68	50	11' 3"	10' 2"	8' 10"	12' 8"	11' 6"	9' 3"	11' 3"	9' 3"	8' 1"	11' 6"	10' 4"	9' 1"
600S200-97	50	12' 6"	11' 4"	9' 10"	14' 1"	12' 9"	11' 2"	11' 4"	10' 3"	9' 0"	12' 9"	11' 7"	10' 1"
600S200-118	50	13' 2"	12' 7"	10' 6"	14' 10"	13' 6"	11' 9"	12' 0"	10' 10"	9' 6"	13' 6"	12' 3"	10' 8"
600S250-43	33	8' 9"	7' 7"	6' 2"	8' 10"	7' 10"	5' 3"	8' 9"	7' 7"	6' 2"	8' 10"	7' 10"	5' 3"
600S250-43 (50)	50	10' 0"	8' 8"	7' 1"	9' 4"	7' 8"	5' 9"	9' 2"	8' 4"	7' 1"	9' 4"	7' 8"	5' 9"
600S250-54	50	11' 0"	10' 0"	8' 3"	11' 4"	9' 8"	7' 6"	10' 0"	9' 0"	7' 10"	11' 2"	9' 8"	7' 6"
600S250-68	50	11' 9"	10' 8"	9' 4"	13' 3"	11' 6"	9' 1"	10' 8"	9' 9"	8' 6"	12' 1"	11' 0"	9' 1"
600S250-97	50	13' 1"	11' 10"	10' 4"	14' 9"	13' 4"	11' 8"	11' 10"	10' 10"	9' 6"	13' 4"	12' 2"	10' 7"
600S250-118	50	13' 10"	12' 7"	11' 0"	15' 7"	14' 2"	12' 4"	12' 7"	11' 6"	10' 0"	14' 2"	12' 10"	11' 3"
600S300-54	50	11' 2"	10' 2"	8' 4"	11' 7"	9' 9"	7' 7"	10' 2"	9' 2"	8' 1"	11' 4"	9' 9"	7' 7"
600S300-68	50	12' 2"	11' 1"	9' 8"	13' 8"	11' 8"	9' 2"	11' 1"	10' 1"	8' 9"	12' 4"	11' 3"	9' 2"
600S300-97	50	13' 8"	12' 4"	10' 10"	15' 4"	14' 0"	11' 7"	12' 4"	11' 3"	9' 10"	14' 0"	12' 8"	11' 1"
600S300-118	50	14' 6"	13' 2"	11' 6"	16' 3"	14' 9"	13' 0"	13' 2"	12' 0"	10' 6"	14' 9"	13' 6"	11' 9"
800S137-33	33	6' 9"	5' 1"	3' 4"	4' 10"	3' 9"	2' 7"	6' 9"	5' 1"	3' 4"	4' 10"	3' 9"	2' 7"
800S137-43	33	8' 8"	7' 6"	6' 1"	7' 10"	6' 7"	4' 10"	8' 8"	7' 6"	6' 1"	7' 10"	6' 7"	4' 10"
800S137-43 (50)	50	9' 10"	8' 6"	7' 0"	8' 9"	7' 2"	5' 2"	9' 10"	8' 6"	7' 0"	8' 9"	7' 2"	5' 2"
800S137-54	50	11' 7"	10' 1"	8' 2"	11' 7"	9' 9"	7' 8"	10' 10"	9' 10"	8' 2"	11' 7"	9' 9"	7' 8"
800S137-68	50	13' 0"	11' 9"	9' 8"	13' 8"	11' 10"	9' 6"	11' 9"	10' 8"	9' 4"	13' 3"	11' 10"	9' 6"
800S137-97	50	14' 4"	13' 1"	11' 6"	16' 2"	14' 8"	12' 0"	13' 1"	11' 10"	10' 4"	14' 8"	13' 4"	11' 8"
800S162-33	33	6' 9"	5' 1"	3' 4"	5' 0"	3' 10"	2' 7"	6' 9"	5' 1"	3' 4"	5' 0"	3' 10"	2' 7"
800S162-43	33	9' 3"	8' 1"	6' 7"	8' 3"	6' 9"	5' 1"	9' 3"	8' 1"	6' 7"	8' 3"	6' 9"	5' 1"
800S162-43 (50)	50	10' 7"	9' 2"	7' 6"	9' 0"	7' 3"	5' 3"	10' 6"	9' 2"	7' 6"	9' 0"	7' 3"	5' 3"
800S162-54	50	12' 6"	10' 9"	8' 9"	12' 3"	10' 4"	8' 0"	11' 4"	10' 3"	8' 9"	12' 3"	10' 4"	8' 0"
800S162-68	50	13' 6"	12' 3"	10' 4"	14' 8"	12' 7"	10' 1"	12' 3"	11' 2"	9' 9"	13' 9"	12' 6"	10' 1"
800S162-97	50	15' 0"	13' 8"	11' 10"	16' 10"	15' 3"	12' 8"	13' 8"	12' 4"	10' 9"	15' 3"	13' 10"	12' 2"
800S162-118	50	15' 10"	14' 4"	12' 7"	17' 10"	16' 2"	14' 2"	14' 4"	13' 1"	11' 6"	16' 2"	14' 8"	12' 10"
800S200-43	33	10' 0"	8' 8"	7' 1"	9' 0"	7' 3"	5' 3"	10' 0"	8' 8"	7' 1"	9' 0"	7' 3"	5' 3"
800S200-43 (50)	50	11' 4"	9' 10"	7' 6"	9' 7"	7' 8"	5' 6"	11' 2"	9' 10"	7' 6"	9' 7"	7' 8"	5' 6"
800S200-54	50	13' 2"	11' 7"	9' 4"	13' 3"	11' 2"	8' 7"	12' 0"	10' 10"	9' 4"	13' 3"	11' 2"	8' 7"
800S200-68	50	14' 2"	12' 10"	11' 2"	15' 10"	14' 0"	11' 2"	12' 10"	11' 8"	10' 2"	14' 6"	13' 1"	11' 2"
800S200-97	50	15' 9"	14' 3"	12' 6"	17' 8"	16' 1"	14' 0"	14' 3"	13' 0"	11' 4"	16' 1"	14' 7"	12' 9"
800S200-118	50	16' 8"	15' 2"	13' 3"	18' 8"	17' 0"	14' 10"	15' 2"	13' 9"	12' 0"	17' 0"	15' 6"	13' 6"
800S250-43	33	10' 2"	8' 10"	7' 2"	9' 0"	7' 3"	5' 3"	10' 2"	8' 10"	7' 2"	9' 0"	7' 3"	5' 3"
800S250-43 (50)	50	11' 7"	10' 1"	7' 6"	9' 7"	7' 8"	5' 6"	11' 6"	10' 1"	7' 6"	9' 7"	7' 8"	5' 6"
800S250-54	50	13' 8"	11' 9"	9' 8"	13' 4"	11' 3"	8' 8"	12' 4"	11' 3"	9' 8"	13' 4"	11' 3"	8' 8"
800S250-68	50	14' 9"	13' 4"	11' 3"	16' 0"	13' 10"	11' 0"	13' 4"	12' 2"	10' 8"	15' 1"	13' 8"	11' 0"
800S250-97	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	14' 8"	15' 0"	13' 7"	11' 10"	16' 9"	15' 3"	13' 3"
800S250-118	50	17' 6"	15' 10"	13' 10"	19' 7"	17' 9"	15' 7"	15' 10"	14' 4"	12' 7"	17' 9"	16' 2"	14' 1"
800S300-54	50	13' 9"	12' 0"	9' 9"	13' 6"	11' 3"	8' 8"	12' 8"	11' 6"	9' 9"	13' 6"	11' 3"	8' 8"
800S300-68	50	15' 2"	13' 9"	11' 6"	16' 3"	14' 1"	11' 2"	13' 9"	12' 7"	11' 0"	15' 6"	14' 1"	11' 2"
800S300-97	50	17' 1"	15' 6"	13' 7"	19' 2"	17' 4"	14' 7"	15' 6"	14' 1"	12' 3"	17' 4"	15' 9"	13' 9"
800S300-118	50	18' 2"	16' 6"	14' 4"	20' 4"	18' 6"	16' 2"	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	14' 8"
1000S162-33	33	5' 4"	4' 0"	2' 8"	4' 2"	3' 2"	2' 1"	5' 4"	4' 0"	2' 8"	4' 2"	3' 2"	2' 1"
1000S162-43	33	10' 4"	9' 0"	6' 0"	8' 1"	6' 4"	4' 6"	10' 4"	9' 0"	6' 0"	8' 1"	6' 4"	4' 6"
1000S162-43 (50)	50	11' 8"	9' 0"	6' 0"	8' 6"	6' 7"	4' 7"	11' 8"	9' 0"	6' 0"	8' 6"	6' 7"	4' 7"
1000S162-54	50	13' 10"	12' 0"	9' 9"	12' 9"	10' 7"	7' 10"	13' 6"	12' 0"	9' 9"	12' 9"	10' 7"	7' 10"
1000S162-68	50	16' 1"	14' 2"	11' 7"	16' 4"	14' 2"	11' 2"	13' 3"	13' 3"	11' 7"	16' 4"	14' 2"	11' 2"
1000S162-97	50	18' 1"	16' 4"	14' 4"	20' 3"	18' 2"	14' 8"	16' 4"	14' 10"	13' 1"	18' 6"	16' 9"	14' 8"
1000S162-118	50	19' 2"	17' 4"	15' 2"	21' 6"	19' 7"	16' 7"	17' 4"	15' 9"	13' 9"	19' 7"	17' 9"	15' 6"
1000S200-43	33	11' 2"	9' 0"	6' 0"	8' 3"	6' 6"	4' 7"	11' 2"	9' 0"	6' 0"	8' 3"	6' 6"	4' 7"
1000S200-43 (50)	50	11' 10"	9' 0"	6' 0"	8' 8"	6' 8"	4' 7"	11' 10"	9' 0"	6' 0"	8' 8"	6' 8"	4' 7"
1000S200-54	50	14' 10"	12' 10"	10' 6"	13' 2"	10' 10"	8' 0"	14' 1"	12' 9"	10' 6"	13' 2"	10' 10"	8' 0"
1000S200-68	50	16' 10"	15' 2"	12' 4"	17' 6"	14' 10"	11' 8"	15' 2"	13' 10"	12' 2"	17' 2"	14' 10"	11' 8"
1000S200-97	50	18' 10"	17' 2"	15' 0"	21' 2"	19' 3"	15' 8"	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	15' 3"
1000S200-118	50	20' 0"	18' 2"	15' 10"	22' 6"	20' 4"	17' 7"	18' 2"	16' 7"	14' 6"	20' 4"	18' 7"	16' 2"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

15 psf Dead Load and 125 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-43	33	11' 6"	9' 0"	6' 0"	8' 4"	6' 7"	4' 7"	11' 6"	9' 0"	6' 0"	8' 4"	6' 7"	4' 7"
1000S250-43 (50)	50	11' 10"	9' 0"	6' 0"	8' 9"	6' 9"	4' 8"	11' 10"	9' 0"	6' 0"	8' 9"	6' 9"	4' 8"
1000S250-54	50	15' 3"	13' 3"	10' 9"	13' 7"	11' 2"	8' 2"	14' 10"	13' 3"	10' 9"	13' 7"	11' 2"	8' 2"
1000S250-68	50	17' 8"	15' 7"	12' 8"	18' 0"	15' 7"	12' 3"	16' 0"	14' 7"	12' 8"	18' 0"	15' 7"	12' 3"
1000S250-97	50	19' 8"	17' 10"	15' 7"	22' 1"	20' 1"	16' 10"	17' 10"	16' 3"	14' 2"	20' 1"	18' 2"	15' 10"
1000S250-118	50	20' 10"	19' 0"	16' 7"	23' 6"	21' 3"	18' 7"	19' 0"	17' 2"	15' 1"	21' 3"	19' 4"	16' 10"
1000S300-54	50	15' 6"	13' 6"	11' 0"	13' 8"	11' 2"	8' 2"	15' 1"	13' 6"	11' 0"	13' 8"	11' 2"	8' 2"
1000S300-68	50	18' 1"	15' 10"	12' 10"	18' 3"	15' 9"	12' 3"	16' 6"	15' 0"	12' 10"	18' 3"	15' 9"	12' 3"
1000S300-97	50	20' 4"	18' 6"	16' 2"	22' 9"	20' 3"	16' 7"	18' 6"	16' 9"	14' 8"	20' 9"	18' 10"	16' 6"
1000S300-118	50	21' 8"	19' 8"	17' 2"	24' 3"	22' 1"	19' 3"	19' 8"	17' 10"	15' 7"	22' 1"	20' 1"	17' 6"
1000S350-54	50	17' 3"	15' 0"	11' 10"	14' 7"	11' 9"	8' 6"	16' 0"	14' 6"	11' 10"	14' 7"	11' 9"	8' 6"
1000S350-68	50	19' 4"	17' 4"	14' 4"	20' 3"	17' 1"	13' 3"	15' 9"	15' 9"	13' 9"	19' 6"	17' 1"	13' 3"
1000S350-97	50	21' 4"	19' 6"	17' 0"	24' 1"	21' 10"	18' 1"	19' 6"	17' 8"	15' 6"	21' 10"	19' 10"	17' 3"
1000S350-118	50	22' 9"	20' 8"	18' 1"	25' 7"	23' 2"	20' 3"	20' 8"	18' 9"	16' 4"	23' 2"	21' 1"	18' 4"
1200S162-43	33	9' 10"	7' 4"	5' 0"	7' 4"	5' 8"	3' 10"	9' 10"	7' 4"	5' 0"	7' 4"	5' 8"	3' 10"
1200S162-43 (50)	50	9' 10"	7' 4"	5' 0"	7' 7"	5' 9"	3' 10"	9' 10"	7' 4"	5' 0"	7' 7"	5' 9"	3' 10"
1200S162-54	50	14' 10"	12' 10"	9' 9"	12' 8"	10' 2"	7' 3"	14' 10"	12' 10"	9' 9"	12' 8"	10' 2"	7' 3"
1200S162-68	50	17' 8"	15' 4"	12' 7"	17' 8"	14' 10"	11' 4"	16' 10"	15' 4"	12' 7"	17' 8"	14' 10"	11' 4"
1200S162-97	50	21' 1"	19' 2"	16' 3"	23' 0"	19' 10"	16' 3"	19' 2"	17' 4"	15' 2"	21' 6"	19' 6"	16' 3"
1200S162-118	50	22' 4"	20' 4"	17' 9"	25' 1"	22' 9"	18' 8"	20' 4"	18' 6"	16' 2"	22' 9"	20' 9"	18' 1"
1200S200-54	50	16' 1"	14' 0"	9' 9"	13' 0"	10' 3"	7' 3"	16' 1"	14' 0"	9' 9"	13' 0"	10' 3"	7' 3"
1200S200-68	50	19' 1"	16' 6"	13' 6"	18' 6"	15' 6"	11' 9"	17' 7"	16' 0"	13' 6"	18' 6"	15' 6"	11' 9"
1200S200-97	50	22' 0"	20' 0"	17' 4"	24' 7"	21' 3"	17' 4"	20' 0"	18' 1"	15' 9"	22' 4"	20' 3"	17' 4"
1200S200-118	50	23' 3"	21' 2"	18' 6"	26' 2"	23' 9"	19' 10"	21' 2"	19' 3"	16' 9"	23' 9"	21' 7"	18' 10"
1200S250-54	50	16' 8"	14' 4"	9' 9"	13' 1"	10' 4"	7' 4"	16' 8"	14' 4"	9' 9"	13' 1"	10' 4"	7' 4"
1200S250-68	50	19' 8"	17' 1"	13' 10"	18' 7"	15' 7"	11' 10"	18' 4"	16' 8"	13' 10"	18' 7"	15' 7"	11' 10"
1200S250-97	50	22' 9"	20' 8"	18' 0"	25' 4"	22' 0"	18' 0"	20' 8"	18' 9"	16' 6"	23' 3"	21' 2"	18' 0"
1200S250-118	50	24' 2"	22' 0"	19' 2"	27' 2"	24' 8"	20' 7"	22' 0"	20' 0"	17' 6"	24' 8"	22' 6"	19' 7"
1200S300-54	50	17' 0"	14' 8"	9' 9"	13' 2"	10' 6"	7' 4"	17' 0"	14' 8"	9' 9"	13' 2"	10' 6"	7' 4"
1200S300-68	50	20' 1"	17' 4"	14' 2"	19' 3"	16' 1"	12' 2"	19' 1"	17' 3"	14' 2"	19' 3"	16' 1"	12' 2"
1200S300-97	50	23' 7"	21' 4"	18' 3"	25' 10"	22' 4"	18' 3"	21' 4"	19' 6"	17' 0"	24' 1"	21' 10"	18' 3"
1200S300-118	50	25' 1"	22' 9"	19' 10"	28' 1"	25' 7"	21' 10"	22' 9"	20' 8"	18' 1"	25' 7"	23' 2"	20' 3"
1200S350-54	50	19' 0"	14' 9"	9' 9"	13' 9"	10' 9"	7' 6"	18' 4"	14' 9"	9' 9"	13' 9"	10' 9"	7' 6"
1200S350-68	50	22' 1"	19' 4"	15' 9"	20' 10"	17' 3"	12' 10"	20' 1"	18' 3"	15' 9"	20' 10"	17' 3"	12' 10"
1200S350-97	50	24' 8"	22' 6"	19' 7"	27' 9"	24' 8"	20' 2"	22' 6"	20' 4"	17' 9"	25' 2"	22' 10"	20' 0"
1200S350-118	50	26' 3"	23' 10"	20' 10"	29' 6"	26' 9"	23' 4"	23' 10"	21' 8"	19' 0"	26' 9"	24' 4"	21' 3"
1400S162-54	50	15' 9"	12' 7"	8' 4"	12' 0"	9' 4"	6' 6"	15' 9"	12' 7"	8' 4"	12' 0"	9' 4"	6' 6"
1400S162-68	50	18' 9"	16' 3"	13' 3"	18' 2"	15' 0"	11' 2"	18' 9"	16' 3"	13' 3"	18' 2"	15' 0"	11' 2"
1400S162-97	50	23' 10"	21' 4"	17' 6"	24' 8"	21' 4"	17' 6"	19' 8"	17' 2"	14' 4"	21' 4"	17' 6"	14' 4"
1400S162-118	50	25' 7"	23' 2"	20' 2"	28' 7"	24' 9"	20' 2"	23' 2"	21' 1"	18' 6"	26' 1"	23' 8"	20' 2"
1400S200-54	50	16' 9"	12' 7"	8' 4"	12' 2"	9' 6"	6' 6"	16' 9"	12' 7"	8' 4"	12' 2"	9' 6"	6' 6"
1400S200-68	50	20' 4"	17' 7"	14' 4"	15' 7"	15' 6"	11' 6"	19' 10"	17' 7"	14' 4"	18' 10"	15' 6"	11' 6"
1400S200-97	50	24' 9"	22' 7"	18' 8"	26' 6"	22' 10"	18' 8"	22' 7"	20' 6"	17' 10"	25' 3"	22' 10"	18' 8"
1400S200-118	50	26' 7"	24' 1"	21' 1"	29' 9"	26' 4"	21' 7"	24' 1"	21' 10"	19' 2"	27' 1"	24' 7"	21' 6"
1400S250-54	50	16' 9"	12' 7"	8' 4"	12' 2"	9' 6"	6' 6"	16' 9"	12' 7"	8' 4"	12' 2"	9' 6"	6' 6"
1400S250-68	50	21' 1"	18' 3"	14' 10"	19' 0"	15' 7"	11' 6"	20' 7"	18' 3"	14' 10"	19' 0"	15' 7"	11' 6"
1400S250-97	50	25' 9"	23' 4"	19' 4"	27' 4"	23' 9"	19' 3"	23' 4"	21' 3"	18' 7"	26' 3"	23' 9"	19' 3"
1400S250-118	50	27' 6"	25' 0"	21' 10"	30' 10"	27' 4"	22' 4"	25' 0"	22' 8"	19' 10"	28' 1"	25' 6"	22' 3"
1400S300-54	50	16' 9"	12' 7"	8' 4"	12' 3"	9' 6"	6' 6"	16' 9"	12' 7"	8' 4"	12' 3"	9' 6"	6' 6"
1400S300-68	50	21' 7"	18' 8"	15' 3"	19' 2"	15' 8"	11' 7"	21' 2"	18' 8"	15' 3"	19' 2"	15' 8"	11' 7"
1400S300-97	50	26' 7"	24' 2"	19' 9"	28' 1"	24' 3"	19' 9"	24' 2"	22' 0"	19' 2"	27' 2"	24' 3"	19' 9"
1400S300-118	50	28' 4"	25' 9"	22' 7"	31' 10"	28' 1"	22' 10"	25' 9"	23' 6"	20' 6"	29' 0"	26' 3"	22' 10"
1400S350-54	50	16' 9"	12' 7"	8' 4"	12' 7"	9' 8"	6' 7"	16' 9"	12' 7"	8' 4"	12' 7"	9' 8"	6' 7"
1400S350-68	50	24' 2"	20' 10"	16' 10"	20' 8"	16' 9"	12' 1"	22' 8"	20' 7"	16' 10"	20' 8"	16' 9"	12' 1"
1400S350-97	50	28' 0"	25' 4"	21' 10"	31' 0"	26' 9"	21' 10"	25' 4"	23' 1"	20' 2"	28' 6"	25' 10"	21' 10"
1400S350-118	50	29' 8"	27' 0"	23' 7"	33' 4"	30' 3"	26' 0"	27' 0"	24' 6"	21' 4"	30' 3"	27' 7"	24' 1"
1600S162-68	50	19' 8"	17' 1"	14' 0"	18' 2"	14' 8"	10' 7"	19' 8"	17' 1"	14' 0"	18' 2"	14' 8"	10' 7"
1600S162-97	50	26' 1"	22' 7"	18' 4"	26' 1"	22' 7"	18' 4"	24' 2"	22' 0"	18' 4"	26' 1"	22' 7"	18' 4"
1600S162-118	50	28' 7"	26' 0"	21' 6"	30' 4"	26' 3"	21' 6"	26' 0"	23' 7"	20' 7"	29' 1"	26' 3"	21' 6"
1600S200-68	50	21' 4"	18' 6"	14' 8"	18' 8"	15' 1"	10' 9"	21' 4"	18' 6"	14' 8"	18' 8"	15' 1"	10' 9"
1600S200-97	50	27' 7"	24' 3"	19' 9"	28' 0"	24' 3"	19' 6"	25' 1"	22' 9"	19' 9"	28' 0"	24' 3"	19' 6"
1600S200-118	50	29' 7"	26' 10"	23' 0"	32' 6"	28' 2"	23' 0"	26' 10"	24' 6"	21' 4"	30' 2"	27' 4"	23' 0"
1600S250-68	50	22' 3"	19' 3"	14' 8"	18' 9"	15' 1"	10' 9"	22' 3"	19' 3"	14' 8"	18' 9"	15' 1"	10' 9"
1600S250-97	50	28' 7"	25' 3"	20' 7"	29' 2"	25' 3"	20' 1"	25' 10"	23' 7"	20' 7"	29' 1"	25' 3"	20' 1"
1600S250-118	50	30' 7"	27' 9"	23' 10"	33' 9"	29' 3"	23' 10"	27' 9"	25' 3"	22' 1"	31' 2"	28' 4"	23' 10"
1600S300-68	50	22' 10"	19' 10"	14' 8"	18' 10"	15' 2"	10' 9"	22' 10"	19' 10"	14' 8"	18' 10"	15' 2"	10' 9"
1600S300-97	50	29' 4"	25' 10"	21' 2"	30' 0"	25' 10"	20' 7"	26' 8"	24' 3"	21' 2"	30' 0"	25' 10"	20' 7"
1600S300-118	50	31' 7"	28' 8"	24' 7"	34' 8"	30' 1"	24' 7"	28' 8"	26' 1"	22' 9"	32' 2"	29' 3"	24' 7"
1600S350-68	50	25' 8"	22' 1"	14' 8"	19' 10"	15' 9"	11' 1"	24' 7"	22' 1"	14' 8"	19' 10"	15' 9"	11' 1"
1600S350-97	50	30' 9"	28' 0"	23' 4"	32' 6"	27' 6"	21' 7"	28' 0"	25' 4"	22' 2"	31' 4"	27' 6"	21' 7"
1600S350-118	50	33' 0"	30' 0"	26' 2"	37' 1"	33' 0"	26' 10"	30' 0"	27' 2"	23' 9"	33' 8"	30' 7"	26' 8"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

40 psf Dead Load and 125 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	5' 9"	5' 0"	3' 10"	4' 9"	3' 10"	2' 9"	5' 9"	5' 0"	3' 10"	4' 9"	3' 10"	2' 9"
600S137-43	33	6' 10"	6' 0"	4' 10"	6' 7"	5' 6"	4' 3"	6' 10"	6' 0"	4' 10"	6' 7"	5' 6"	4' 3"
600S137-43 (50)	50	7' 10"	6' 10"	5' 7"	7' 4"	6' 2"	4' 8"	7' 10"	6' 10"	5' 7"	7' 4"	6' 2"	4' 8"
600S137-54	50	9' 3"	8' 0"	6' 7"	9' 1"	7' 8"	6' 0"	8' 8"	7' 10"	6' 7"	9' 1"	7' 8"	6' 0"
600S137-68	50	10' 3"	9' 3"	7' 7"	10' 8"	9' 2"	7' 3"	9' 3"	8' 6"	7' 4"	10' 6"	9' 2"	7' 3"
600S137-97	50	11' 4"	10' 3"	9' 0"	12' 8"	11' 7"	9' 4"	10' 3"	9' 4"	8' 2"	11' 7"	10' 6"	9' 2"
600S162-33	33	6' 2"	5' 4"	3' 10"	5' 1"	4' 1"	2' 10"	6' 2"	5' 4"	3' 10"	5' 1"	4' 1"	2' 10"
600S162-43	33	7' 7"	6' 7"	5' 4"	7' 3"	6' 1"	4' 7"	7' 7"	6' 7"	5' 4"	7' 3"	6' 1"	4' 7"
600S162-43 (50)	50	8' 6"	7' 4"	6' 0"	8' 0"	6' 7"	4' 10"	8' 6"	7' 4"	6' 0"	8' 0"	6' 7"	4' 10"
600S162-54	50	10' 0"	8' 10"	7' 2"	10' 2"	8' 7"	6' 7"	9' 1"	8' 3"	7' 2"	10' 2"	8' 7"	6' 7"
600S162-68	50	10' 8"	9' 8"	8' 6"	12' 0"	10' 2"	8' 1"	9' 8"	8' 10"	7' 8"	10' 10"	9' 10"	8' 1"
600S162-97	50	11' 10"	10' 9"	9' 4"	13' 3"	12' 1"	9' 9"	10' 9"	9' 9"	8' 7"	12' 1"	11' 0"	9' 7"
600S162-118	50	12' 6"	11' 4"	10' 0"	14' 1"	12' 9"	10' 7"	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 2"
600S200-33	33	6' 7"	5' 8"	3' 10"	5' 2"	4' 1"	2' 10"	6' 7"	5' 8"	3' 10"	5' 2"	4' 1"	2' 10"
600S200-43	33	7' 10"	6' 9"	5' 7"	7' 4"	6' 2"	4' 8"	7' 10"	6' 9"	5' 7"	7' 4"	6' 2"	4' 8"
600S200-43 (50)	50	9' 0"	7' 9"	6' 4"	8' 4"	6' 10"	5' 1"	8' 10"	7' 9"	6' 4"	8' 4"	6' 10"	5' 1"
600S200-54	50	10' 6"	9' 1"	7' 4"	10' 2"	8' 7"	6' 7"	9' 6"	8' 8"	7' 4"	10' 2"	8' 7"	6' 7"
600S200-68	50	11' 3"	10' 2"	8' 10"	12' 7"	10' 8"	8' 4"	10' 2"	9' 3"	8' 1"	11' 6"	10' 4"	8' 4"
600S200-97	50	12' 6"	11' 4"	9' 10"	14' 1"	12' 9"	10' 4"	11' 4"	10' 3"	9' 0"	12' 9"	11' 7"	10' 1"
600S200-118	50	13' 2"	12' 0"	10' 6"	14' 10"	13' 6"	11' 1"	12' 0"	10' 10"	9' 6"	13' 6"	12' 3"	10' 8"
600S250-43	33	8' 1"	7' 0"	5' 8"	7' 7"	6' 3"	4' 8"	8' 1"	7' 0"	5' 8"	7' 7"	6' 3"	4' 8"
600S250-43 (50)	50	9' 2"	8' 0"	6' 6"	8' 4"	6' 10"	5' 1"	9' 2"	8' 0"	6' 6"	8' 4"	6' 10"	5' 1"
600S250-54	50	10' 9"	9' 3"	7' 7"	10' 4"	8' 8"	6' 8"	10' 0"	9' 0"	7' 7"	10' 4"	8' 8"	6' 8"
600S250-68	50	11' 9"	10' 8"	8' 10"	12' 3"	10' 4"	8' 2"	10' 8"	9' 9"	8' 6"	12' 1"	10' 4"	8' 2"
600S250-97	50	13' 1"	11' 10"	10' 4"	14' 9"	13' 4"	10' 8"	11' 10"	10' 10"	9' 6"	13' 4"	12' 2"	10' 7"
600S250-118	50	13' 10"	12' 7"	11' 0"	15' 7"	14' 2"	11' 6"	12' 7"	11' 6"	10' 0"	14' 2"	12' 10"	11' 3"
600S300-54	50	10' 10"	9' 6"	7' 8"	10' 6"	8' 10"	6' 9"	10' 2"	9' 2"	7' 8"	10' 6"	8' 10"	6' 9"
600S300-68	50	12' 2"	11' 1"	9' 0"	12' 6"	10' 7"	8' 4"	11' 1"	10' 1"	8' 9"	12' 4"	10' 7"	8' 4"
600S300-97	50	13' 8"	12' 4"	10' 10"	15' 4"	13' 4"	10' 7"	12' 4"	11' 3"	9' 10"	14' 0"	12' 8"	10' 7"
600S300-118	50	14' 6"	13' 2"	11' 6"	16' 3"	14' 9"	11' 10"	13' 2"	12' 0"	10' 6"	14' 9"	13' 6"	11' 9"
800S137-33	33	5' 8"	4' 3"	2' 10"	4' 3"	3' 3"	2' 2"	5' 8"	4' 3"	2' 10"	4' 3"	3' 3"	2' 2"
800S137-43	33	8' 0"	6' 10"	5' 7"	7' 1"	5' 10"	4' 3"	8' 0"	6' 10"	5' 7"	7' 1"	5' 10"	4' 3"
800S137-43 (50)	50	9' 1"	7' 10"	6' 4"	7' 9"	6' 3"	4' 7"	9' 1"	7' 10"	6' 4"	7' 9"	6' 3"	4' 7"
800S137-54	50	10' 8"	9' 3"	7' 7"	8' 10"	6' 10"	6' 10"	10' 8"	9' 3"	7' 7"	10' 7"	8' 10"	6' 10"
800S137-68	50	12' 7"	11' 0"	8' 10"	12' 7"	10' 10"	8' 8"	11' 9"	10' 8"	8' 10"	12' 7"	10' 10"	8' 8"
800S137-97	50	14' 4"	13' 1"	11' 4"	15' 9"	13' 7"	11' 0"	13' 1"	11' 10"	10' 4"	14' 8"	13' 4"	11' 0"
800S162-33	33	5' 8"	4' 3"	2' 10"	4' 3"	3' 3"	2' 3"	5' 8"	4' 3"	2' 10"	4' 3"	3' 3"	2' 3"
800S162-43	33	8' 7"	7' 6"	6' 1"	7' 6"	6' 1"	4' 6"	8' 7"	7' 6"	6' 1"	7' 6"	6' 1"	4' 6"
800S162-43 (50)	50	9' 9"	8' 6"	6' 4"	8' 0"	6' 6"	4' 7"	9' 9"	8' 6"	6' 4"	8' 0"	6' 6"	4' 7"
800S162-54	50	11' 6"	10' 0"	8' 1"	11' 1"	9' 4"	7' 2"	11' 4"	10' 0"	8' 1"	11' 1"	9' 4"	7' 2"
800S162-68	50	13' 6"	11' 8"	9' 6"	13' 6"	9' 1"	11' 6"	11' 2"	9' 6"	13' 6"	11' 2"	9' 1"	11' 6"
800S162-97	50	15' 0"	13' 8"	11' 10"	16' 9"	14' 4"	11' 7"	13' 8"	12' 4"	10' 9"	15' 3"	13' 10"	11' 7"
800S162-118	50	15' 10"	14' 4"	12' 7"	17' 10"	16' 2"	13' 10"	14' 4"	13' 1"	11' 6"	16' 2"	14' 8"	12' 10"
800S200-43	33	9' 2"	8' 0"	6' 4"	8' 0"	6' 4"	4' 7"	9' 2"	8' 0"	6' 4"	8' 0"	6' 4"	4' 7"
800S200-43 (50)	50	10' 6"	9' 1"	6' 4"	8' 6"	6' 8"	4' 9"	10' 6"	9' 1"	6' 4"	8' 6"	6' 8"	4' 9"
800S200-54	50	12' 3"	10' 7"	8' 8"	12' 1"	10' 1"	7' 8"	12' 0"	10' 7"	8' 8"	12' 1"	10' 1"	7' 8"
800S200-68	50	14' 2"	12' 10"	10' 6"	14' 10"	12' 10"	10' 2"	12' 10"	11' 8"	10' 2"	14' 6"	12' 10"	10' 2"
800S200-97	50	15' 9"	14' 3"	12' 6"	17' 8"	16' 1"	13' 2"	14' 3"	13' 0"	11' 4"	16' 1"	14' 7"	12' 9"
800S200-118	50	16' 8"	15' 2"	13' 3"	18' 8"	17' 0"	14' 8"	15' 2"	13' 9"	12' 0"	17' 0"	15' 6"	13' 6"
800S250-43	33	9' 4"	8' 2"	6' 4"	8' 0"	6' 6"	4' 7"	9' 4"	8' 2"	6' 4"	8' 0"	6' 6"	4' 7"
800S250-43 (50)	50	10' 8"	9' 3"	6' 4"	8' 6"	6' 9"	4' 9"	10' 8"	9' 3"	6' 4"	8' 6"	6' 9"	4' 9"
800S250-54	50	12' 7"	10' 10"	8' 10"	12' 2"	10' 2"	7' 8"	12' 4"	10' 10"	8' 10"	12' 2"	10' 2"	7' 8"
800S250-68	50	14' 8"	12' 9"	10' 4"	14' 8"	12' 7"	9' 10"	13' 4"	12' 2"	10' 4"	14' 8"	12' 7"	9' 10"
800S250-97	50	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	13' 6"	15' 0"	13' 7"	11' 10"	16' 9"	15' 3"	13' 3"
800S250-118	50	17' 6"	15' 10"	13' 10"	19' 7"	17' 9"	15' 2"	15' 10"	14' 4"	12' 7"	17' 9"	16' 2"	14' 1"
800S300-54	50	12' 8"	11' 0"	9' 0"	12' 2"	10' 2"	7' 8"	12' 8"	11' 0"	9' 0"	12' 2"	10' 2"	7' 8"
800S300-68	50	15' 0"	13' 0"	10' 7"	15' 0"	12' 10"	10' 1"	13' 9"	12' 7"	10' 7"	15' 0"	12' 10"	10' 1"
800S300-97	50	17' 1"	15' 6"	13' 6"	19' 1"	16' 6"	13' 3"	15' 6"	14' 1"	12' 3"	17' 4"	15' 9"	13' 3"
800S300-118	50	18' 2"	16' 6"	14' 4"	20' 4"	18' 6"	15' 9"	16' 6"	15' 0"	13' 1"	18' 6"	16' 9"	14' 8"
1000S162-33	33	4' 7"	3' 4"	2' 3"	3' 7"	2' 8"	1' 9"	4' 7"	3' 4"	2' 3"	3' 7"	2' 8"	1' 9"
1000S162-43	33	9' 6"	7' 7"	5' 1"	7' 1"	5' 7"	3' 10"	9' 6"	7' 7"	5' 1"	7' 1"	5' 7"	3' 10"
1000S162-43 (50)	50	10' 1"	7' 7"	5' 1"	7' 4"	5' 8"	3' 10"	10' 1"	7' 7"	5' 1"	7' 4"	5' 8"	3' 10"
1000S162-54	50	12' 9"	11' 1"	9' 0"	11' 6"	9' 4"	6' 10"	12' 9"	11' 1"	9' 0"	11' 6"	9' 4"	6' 10"
1000S162-68	50	15' 1"	13' 1"	10' 8"	15' 1"	12' 10"	10' 1"	14' 8"	13' 1"	10' 8"	15' 1"	12' 10"	10' 1"
1000S162-97	50	18' 1"	16' 4"	13' 8"	19' 3"	16' 8"	13' 6"	16' 4"	14' 10"	13' 1"	18' 6"	16' 8"	13' 6"
1000S162-118	50	19' 2"	17' 4"	15' 2"	21' 6"	18' 9"	15' 2"	17' 4"	15' 9"	13' 9"	19' 7"	17' 9"	15' 2"
1000S200-43	33	10' 1"	7' 7"	5' 1"	7' 2"	5' 8"	3' 10"	10' 1"	7' 7"	5' 1"	7' 2"	5' 8"	3' 10"
1000S200-43 (50)	50	10' 1"	7' 7"	5' 1"	7' 6"	5' 9"	4' 0"	10' 1"	7' 7"	5' 1"	7' 6"	5' 9"	4' 0"
1000S200-54	50	13' 8"	11' 10"	9' 8"	11' 9"	9' 7"	7' 1"	13' 8"	11' 10"	9' 8"	11' 9"	9' 7"	7' 1"
1000S200-68	50	16' 1"	14' 0"	11' 4"	16' 0"	13' 6"	10' 6"	15' 3"	13' 10"	11' 4"	16' 0"	13' 6"	10' 6"
1000S200-97	50	18' 10"	17' 2"	14' 6"	20' 7"	17' 9"	14' 4"	17' 2"	15' 7"	13' 7"	19' 3"	17' 6"	14' 4"
1000S200-118	50	20' 0"	18' 2"	15' 10"	22' 6"	20' 0"	16' 2"	18' 2"	16' 7"	14' 6"	20' 4"	18' 7"	16' 2"

NOTE: See page 39 for Table Notes.

FLOOR JOIST SPANS

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40 psf Dead Load and 125 psf Live Load

MEMBER	F _y (ksi)	LIVE LOAD DEFLECTION L/360						LIVE LOAD DEFLECTION L/480					
		SINGLE SPAN			TWO EQUAL SPANS			SINGLE SPAN			TWO EQUAL SPANS		
		JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.			JOIST SPACING (in.) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-43	33	10' 1"	7' 7"	5' 1"	7' 4"	5' 8"	3' 10"	10' 1"	7' 7"	5' 1"	7' 4"	5' 8"	3' 10"
1000S250-43 (50)	50	10' 1"	7' 7"	5' 1"	7' 4"	5' 8"	3' 10"	10' 1"	7' 7"	5' 1"	7' 4"	5' 8"	3' 10"
1000S250-54	50	14' 1"	12' 2"	10' 0"	12' 2"	9' 10"	7' 2"	14' 1"	12' 2"	10' 0"	12' 2"	9' 10"	7' 2"
1000S250-68	50	16' 7"	14' 4"	11' 8"	16' 7"	14' 3"	11' 1"	16' 0"	14' 4"	11' 8"	16' 7"	14' 3"	11' 1"
1000S250-97	50	19' 8"	17' 10"	15' 7"	22' 0"	19' 1"	15' 7"	17' 10"	16' 3"	14' 2"	20' 1"	18' 2"	15' 7"
1000S250-118	50	20' 10"	19' 0"	16' 7"	23' 6"	21' 3"	18' 0"	19' 0"	17' 2"	15' 1"	21' 3"	19' 4"	16' 10"
1000S300-54	50	14' 3"	12' 4"	10' 1"	12' 2"	9' 10"	7' 2"	14' 3"	12' 4"	10' 1"	12' 2"	9' 10"	7' 2"
1000S300-68	50	16' 10"	14' 7"	11' 10"	16' 10"	14' 3"	11' 1"	16' 6"	14' 7"	11' 10"	16' 10"	14' 3"	11' 1"
1000S300-97	50	20' 4"	18' 6"	15' 3"	21' 7"	18' 8"	15' 3"	18' 6"	16' 9"	14' 8"	20' 9"	18' 8"	15' 3"
1000S300-118	50	21' 8"	19' 8"	17' 2"	24' 3"	22' 1"	18' 2"	19' 8"	17' 10"	15' 7"	22' 1"	20' 1"	17' 6"
1000S350-54	50	16' 0"	13' 9"	10' 1"	12' 10"	10' 4"	7' 4"	16' 0"	13' 9"	10' 1"	12' 10"	10' 4"	7' 4"
1000S350-68	50	18' 8"	16' 2"	13' 2"	18' 4"	15' 6"	11' 10"	17' 4"	15' 9"	13' 2"	18' 4"	15' 6"	11' 10"
1000S350-97	50	21' 4"	19' 6"	16' 9"	23' 9"	20' 7"	16' 6"	19' 6"	17' 8"	15' 6"	21' 10"	19' 10"	16' 6"
1000S350-118	50	22' 9"	20' 8"	18' 1"	25' 7"	23' 2"	19' 8"	20' 8"	18' 9"	16' 4"	23' 2"	21' 1"	18' 4"
1200S162-43	33	8' 4"	6' 3"	4' 2"	6' 4"	4' 10"	3' 3"	8' 4"	6' 3"	4' 2"	6' 4"	4' 10"	3' 3"
1200S162-43 (50)	50	8' 4"	6' 3"	4' 2"	6' 6"	4' 10"	3' 3"	8' 4"	6' 3"	4' 2"	6' 6"	4' 10"	3' 3"
1200S162-54	50	13' 8"	11' 10"	8' 3"	11' 2"	8' 10"	6' 3"	13' 8"	11' 10"	8' 3"	11' 2"	8' 10"	6' 3"
1200S162-68	50	16' 3"	14' 2"	11' 7"	16' 0"	13' 4"	10' 2"	16' 3"	14' 2"	11' 7"	16' 0"	13' 4"	10' 2"
1200S162-97	50	21' 1"	18' 4"	15' 0"	21' 2"	18' 4"	15' 0"	19' 2"	17' 4"	15' 0"	21' 2"	18' 4"	15' 0"
1200S162-118	50	22' 4"	20' 4"	17' 2"	24' 4"	21' 1"	17' 2"	20' 4"	18' 6"	16' 2"	22' 9"	20' 9"	17' 2"
1200S200-54	50	14' 10"	12' 6"	8' 3"	11' 4"	9' 0"	6' 3"	14' 10"	12' 6"	8' 3"	11' 4"	9' 0"	6' 3"
1200S200-68	50	17' 7"	15' 2"	12' 4"	16' 8"	13' 10"	10' 6"	17' 7"	15' 2"	12' 4"	16' 8"	13' 10"	10' 6"
1200S200-97	50	22' 0"	19' 7"	16' 0"	22' 7"	19' 7"	15' 10"	20' 0"	18' 1"	15' 9"	22' 4"	19' 7"	15' 10"
1200S200-118	50	23' 3"	21' 2"	18' 4"	26' 0"	22' 6"	18' 3"	21' 2"	19' 3"	16' 9"	23' 9"	21' 7"	18' 3"
1200S250-54	50	15' 4"	12' 6"	8' 3"	11' 6"	9' 1"	6' 3"	15' 4"	12' 6"	8' 3"	11' 6"	9' 1"	6' 3"
1200S250-68	50	18' 2"	15' 8"	12' 9"	16' 9"	14' 0"	10' 7"	18' 2"	15' 8"	12' 9"	16' 9"	14' 0"	10' 7"
1200S250-97	50	22' 9"	20' 3"	16' 6"	23' 4"	20' 3"	16' 6"	20' 8"	18' 9"	16' 6"	23' 3"	20' 3"	16' 6"
1200S250-118	50	24' 2"	22' 0"	19' 0"	26' 10"	23' 3"	19' 0"	22' 0"	20' 0"	17' 6"	24' 8"	22' 6"	19' 0"
1200S300-54	50	15' 8"	12' 6"	8' 3"	11' 7"	9' 2"	6' 4"	15' 8"	12' 6"	8' 3"	11' 7"	9' 2"	6' 4"
1200S300-68	50	18' 6"	16' 0"	13' 1"	17' 6"	14' 6"	10' 10"	18' 6"	16' 0"	13' 1"	17' 6"	14' 6"	10' 10"
1200S300-97	50	23' 7"	20' 8"	16' 10"	23' 10"	20' 8"	16' 10"	21' 4"	19' 6"	16' 10"	23' 10"	20' 8"	16' 10"
1200S300-118	50	25' 1"	22' 9"	19' 10"	28' 1"	24' 8"	20' 2"	22' 9"	20' 8"	18' 1"	25' 7"	23' 2"	20' 2"
1200S350-54	50	16' 8"	12' 6"	8' 3"	12' 1"	9' 4"	6' 6"	16' 8"	12' 6"	8' 3"	12' 1"	9' 4"	6' 6"
1200S350-68	50	20' 7"	17' 9"	14' 7"	18' 9"	15' 4"	11' 4"	20' 1"	17' 9"	14' 7"	18' 9"	15' 4"	11' 4"
1200S350-97	50	24' 8"	22' 6"	18' 7"	26' 3"	22' 9"	18' 6"	22' 6"	20' 4"	17' 9"	25' 2"	22' 9"	18' 6"
1200S350-118	50	26' 3"	23' 10"	20' 10"	29' 6"	26' 9"	22' 0"	23' 10"	21' 8"	19' 0"	26' 9"	24' 4"	21' 3"
1400S162-54	50	14' 3"	10' 8"	7' 1"	10' 6"	8' 1"	5' 7"	14' 3"	10' 8"	7' 1"	10' 6"	8' 1"	5' 7"
1400S162-68	50	17' 4"	15' 0"	12' 3"	16' 3"	13' 4"	9' 9"	17' 4"	15' 0"	12' 3"	16' 3"	13' 4"	9' 9"
1400S162-97	50	22' 8"	19' 8"	16' 1"	22' 8"	19' 8"	16' 1"	21' 8"	19' 8"	16' 1"	22' 8"	19' 8"	16' 1"
1400S162-118	50	25' 7"	22' 9"	18' 7"	26' 3"	22' 9"	18' 7"	23' 2"	21' 1"	18' 6"	26' 1"	22' 9"	18' 7"
1400S200-54	50	14' 3"	10' 8"	7' 1"	10' 7"	8' 2"	5' 7"	14' 3"	10' 8"	7' 1"	10' 7"	8' 2"	5' 7"
1400S200-68	50	18' 9"	16' 2"	13' 3"	16' 10"	13' 9"	10' 7"	18' 9"	16' 2"	13' 3"	16' 10"	13' 9"	10' 7"
1400S200-97	50	24' 4"	21' 1"	17' 2"	24' 4"	21' 1"	17' 1"	22' 7"	20' 6"	17' 2"	24' 4"	21' 1"	17' 1"
1400S200-118	50	26' 7"	24' 1"	19' 10"	28' 1"	24' 4"	19' 10"	24' 1"	21' 10"	19' 2"	27' 1"	24' 4"	19' 10"
1400S250-54	50	14' 3"	10' 8"	7' 1"	10' 7"	8' 2"	5' 7"	14' 3"	10' 8"	7' 1"	10' 7"	8' 2"	5' 7"
1400S250-68	50	19' 6"	16' 10"	13' 9"	17' 0"	13' 9"	10' 1"	19' 6"	16' 10"	13' 9"	17' 0"	13' 9"	10' 1"
1400S250-97	50	25' 3"	21' 10"	17' 10"	25' 3"	21' 10"	17' 7"	23' 4"	21' 3"	17' 10"	25' 3"	21' 10"	17' 7"
1400S250-118	50	27' 6"	25' 0"	20' 7"	29' 2"	25' 3"	20' 7"	25' 0"	22' 8"	19' 10"	28' 1"	25' 3"	20' 7"
1400S300-54	50	14' 3"	10' 8"	7' 1"	10' 7"	8' 2"	5' 7"	14' 3"	10' 8"	7' 1"	10' 7"	8' 2"	5' 7"
1400S300-68	50	19' 10"	17' 3"	14' 1"	17' 1"	13' 10"	10' 1"	19' 10"	17' 3"	14' 1"	17' 1"	13' 10"	10' 1"
1400S300-97	50	25' 10"	22' 4"	18' 3"	25' 10"	22' 4"	18' 0"	24' 2"	22' 0"	18' 3"	25' 10"	22' 4"	18' 0"
1400S300-118	50	28' 4"	25' 9"	21' 1"	29' 10"	25' 10"	21' 1"	25' 9"	23' 6"	20' 6"	29' 0"	25' 10"	21' 1"
1400S350-54	50	14' 3"	10' 8"	7' 1"	10' 10"	8' 3"	5' 7"	14' 3"	10' 8"	7' 1"	10' 10"	8' 3"	5' 7"
1400S350-68	50	22' 2"	19' 3"	14' 3"	18' 4"	14' 9"	10' 7"	22' 2"	19' 3"	14' 3"	18' 4"	14' 9"	10' 7"
1400S350-97	50	28' 0"	24' 8"	20' 2"	28' 6"	24' 8"	20' 0"	25' 4"	23' 1"	20' 2"	28' 6"	24' 8"	20' 0"
1400S350-118	50	29' 8"	27' 0"	23' 7"	33' 4"	29' 3"	23' 10"	27' 0"	24' 6"	21' 4"	30' 3"	27' 7"	23' 10"
1600S162-68	50	18' 2"	15' 9"	12' 6"	16' 1"	12' 10"	9' 2"	18' 2"	15' 9"	12' 6"	16' 1"	12' 10"	9' 2"
1600S162-97	50	24' 0"	20' 9"	17' 0"	24' 0"	20' 9"	16' 9"	24' 0"	20' 9"	17' 0"	24' 0"	20' 9"	16' 9"
1600S162-118	50	28' 0"	24' 2"	19' 9"	28' 0"	24' 2"	19' 9"	26' 0"	23' 7"	19' 9"	28' 0"	24' 2"	19' 9"
1600S200-68	50	19' 8"	17' 1"	12' 6"	16' 7"	13' 2"	9' 3"	19' 8"	17' 1"	12' 6"	16' 7"	13' 2"	9' 3"
1600S200-97	50	25' 9"	22' 4"	18' 3"	25' 9"	22' 4"	17' 8"	25' 1"	22' 4"	18' 3"	25' 9"	22' 4"	17' 8"
1600S200-118	50	29' 7"	25' 10"	21' 2"	29' 10"	25' 10"	21' 2"	26' 10"	24' 6"	21' 2"	29' 10"	25' 10"	21' 2"
1600S250-68	50	20' 7"	17' 9"	12' 6"	16' 7"	13' 2"	9' 4"	20' 7"	17' 9"	12' 6"	16' 7"	13' 2"	9' 4"
1600S250-97	50	26' 10"	23' 3"	19' 0"	26' 10"	23' 2"	18' 2"	25' 10"	23' 3"	19' 0"	26' 10"	23' 2"	18' 2"
1600S250-118	50	30' 7"	27' 0"	22' 0"	31' 1"	27' 0"	22' 0"	27' 9"	25' 3"	22' 0"	31' 1"	27' 0"	22' 0"
1600S300-68	50	21' 1"	18' 3"	12' 6"	16' 8"	13' 3"	9' 4"	21' 1"	18' 3"	12' 6"	16' 8"	13' 3"	9' 4"
1600S300-97	50	27' 7"	23' 10"	19' 6"	27' 7"	23' 9"	18' 7"	26' 8"	23' 10"	19' 6"	27' 7"	23' 9"	18' 7"
1600S300-118	50	31' 7"	27' 8"	22' 7"	32' 0"	27' 8"	22' 7"	28' 8"	26' 1"	22' 7"	32' 0"	27' 8"	22' 7"
1600S350-68	50	23' 8"	18' 8"	12' 6"	17' 6"	13' 8"	9' 7"	23' 8"	18' 8"	12' 6"	17' 6"	13' 8"	9' 7"
1600S350-97	50	30' 6"	26' 4"	21' 7"	29' 7"	25' 0"	19' 6"	28' 0"	25' 4"	21' 7"	29' 7"	25' 0"	19' 6"
1600S350-118	50	33' 0"	30' 0"	24' 9"	35' 1"	30' 4"	24' 7"	30' 0"	27' 2"	23' 9"	33' 8"	30' 4"	24' 7"

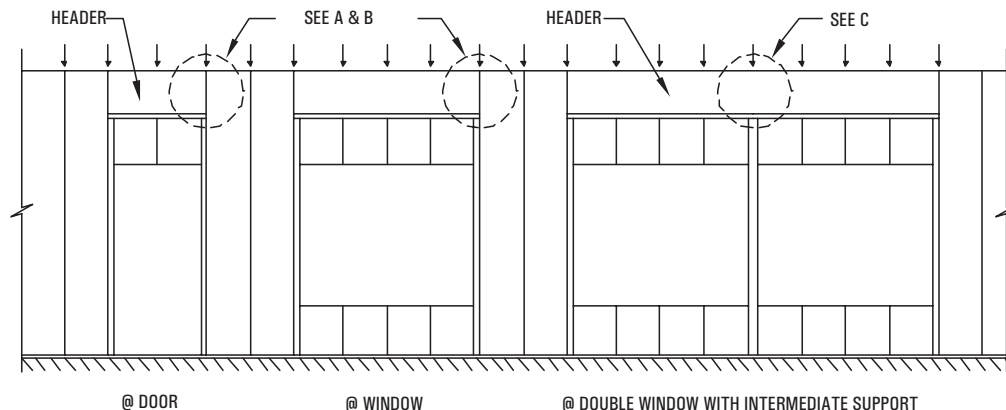
NOTE: See page 39 for Table Notes.

HEADER ALLOWABLE UNIFORM LOADS (lb/ft)

NOTES

1. Values are for unpunched members.
2. Total load deflection is limited to $L/360$.
3. Headers are made from two "boxed" or back to back members.
4. Allowable moment, shear, web crippling and moment of inertia are based on twice the capacity of a single member.
5. Web crippling check is based on 1" of bearing at end supports.
6. Members are assumed to be adequately braced for bending.
7. Allowable loads are for simply supported headers with uniform bending loads only.
8. "e" web stiffeners required at ends.
9. See General Notes on Page 6.

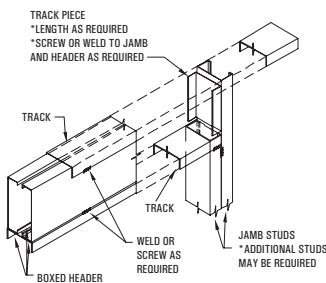
MEMBER	DESIGN THICKNESS (in.)	F_y (ksi)	4 (ft)	5 (ft)	6 (ft)	7 (ft)	8 (ft)	9 (ft)	10 (ft)	11 (ft)	12 (ft)	13 (ft)	14 (ft)	15 (ft)	16 (ft)
362S162-33	0.0346	33	480.e	307.e	214.e	140.e	94.e	66	-	-	-	-	-	-	-
362S162-43	0.0451	33	705.e	451.e	287.e	181.e	121	85	62	-	-	-	-	-	-
362S162-43 (50)	0.0451	50	882.e	496.e	287.e	181	121	85	62	-	-	-	-	-	-
362S162-54	0.0566	50	1192.e	610.e	353	222	149	105	76	57	-	-	-	-	-
362S162-68	0.0713	50	1460.e	747	432	272	182	128	93	70	54	-	-	-	-
362S162-97	0.1017	50	1960.e	1004	581	366	245	172	125	94	73	57	-	-	-
362S162-118	0.1242	50	2285	1170	677	426	286	201	146	110	85	67	53	-	-
600S162-33	0.0346	33	638.e	510.e	422.e	310.e	238.e	188.e	152.e	118.e	91.e	71.e	57.e	-	-
600S162-43	0.0451	33	1390.e	889.e	618.e	454.e	347.e	275.e	202.e	152.e	117.e	92.e	74	60	-
600S162-43 (50)	0.0451	50	1415.e	1126.e	782.e	575.e	395.e	278.e	202.e	152.e	117	92	74	60	-
600S162-54	0.0566	50	2527.e	1617.e	1123.e	729.e	488.e	343.e	250.e	188	145	114	91	74	61
600S162-68	0.0713	50	3288.e	2105.e	1426.e	898.e	602.e	423.e	308	231	178	140	112	91	75
600S162-97	0.1017	50	4727.e	3025.e	1941.e	1223.e	819	575	419	315	243	191	153	124	102
600S162-118	0.1242	50	5745.e	3677.e	2287.e	1441	965	678	494	371	286	225	180	146	121
800S162-33	0.0346	33	474.e	379.e	316.e	271.e	237.e	211.e	187.e	155.e	130.e	111.e	95.e	83.e	72.e
800S162-43	0.0451	33	1051.e	841.e	701.e	548.e	420.e	332.e	269.e	222.e	186.e	159.e	137.e	116.e	96.e
800S162-43 (50)	0.0451	50	1051.e	841.e	701.e	601.e	525.e	427.e	346.e	286.e	221.e	174.e	139.e	113.e	93
800S162-54	0.0566	50	2091.e	1673.e	1363.e	1001.e	766.e	606.e	487.e	366.e	282.e	222.e	177.e	144	119
800S162-68	0.0713	50	4150.e	2656.e	1845.e	1355.e	1038.e	820.e	616.e	463.e	357.e	281.e	225	183	150
800S162-97	0.1017	50	6058.e	3877.e	2693.e	1978.e	1515.e	1165.e	849.e	638.e	491	386	309	252	207
800S162-118	0.1242	50	8768.e	5612.e	3897.e	2863.e	1964.e	1379.e	1006.e	755	582	458	366	298	245
1000S162-33	0.0346	33	377.e	302.e	251.e	215.e	188.e	168.e	151.e	137.e	126.e	116.e	108.e	101.e	93.e
1000S162-43	0.0451	33	836.e	669.e	557.e	478.e	418.e	371.e	334.e	284.e	238.e	203.e	175.e	153.e	134.e
1000S162-43 (50)	0.0451	50	836.e	669.e	557.e	478.e	418.e	371.e	334.e	304.e	279.e	257.e	224.e	188.e	155.e
1000S162-54	0.0566	50	1660.e	1328.e	1107.e	949.e	830.e	738.e	628.e	519.e	436.e	370.e	297.e	241.e	199.e
1000S162-68	0.0713	50	3345.e	2676.e	2230.e	1755.e	1344.e	1062.e	860.e	711.e	597.e	474.e	380.e	309.e	254.e
1000S162-97	0.1017	50	8157.e	5221.e	3625.e	2664.e	2039.e	1611.e	1305.e	1079.e	858.e	675.e	540.e	439	362
1000S162-118	0.1242	50	10064.e	6441.e	4473.e	3286.e	2516.e	1988.e	1610.e	1324.e	1020.e	802.e	642	522	430
1200S162-43	0.0451	33	694.e	555.e	462.e	396.e	347.e	308.e	277.e	252.e	231.e	213.e	198.e	185.e	163.e
1200S162-43 (50)	0.0451	50	694.e	555.e	462.e	396.e	347.e	308.e	277.e	252.e	231.e	213.e	198.e	185.e	173.e
1200S162-54	0.0566	50	1377.e	1102.e	918.e	787.e	689.e	612.e	551.e	501.e	459.e	424.e	390.e	340.e	298.e
1200S162-68	0.0713	50	2770.e	2216.e	1847.e	1583.e	1385.e	1231.e	1056.e	873.e	733.e	625.e	539.e	469.e	390.e
1200S162-97	0.1017	50	8145.e	6516.e	4537.e	3333.e	2552.e	2016.e	1633.e	1350.e	1134.e	966.e	833.e	689.e	568.e
1200S162-118	0.1242	50	12894.e	8252.e	5731.e	4210.e	3224.e	2547.e	2063.e	1705.e	1433.e	1221.e	1024.e	832.e	686.e
1400S162-54	0.0566	50	1176.e	941.e	784.e	672.e	588.e	523.e	471.e	428.e	392.e	362.e	336.e	314.e	294.e
1400S162-68	0.0713	50	2364.e	1891.e	1576.e	1351.e	1182.e	1051.e	946.e	860.e	788.e	727.e	638.e	556.e	489.e
1400S162-97	0.1017	50	6938.e	5550.e	4625.e	3964.e	3065.e	2422.e	1962.e	1621.e	1362.e	1161.e	1001.e	872.e	766.e
1400S162-118	0.1242	50	12743.e	10031.e	6966.e	5118.e	3918.e	3096.e	2508.e	2072.e	1741.e	1484.e	1279.e	1115.e	980.e
1600S162-68	0.0713	50	2062.e	1649.e	1375.e	1178.e	1031.e	916.e	825.e	750.e	687.e	634.e	589.e	550.e	515.e
1600S162-97	0.1017	50	6042.e	4834.e	4028.e	3453.e	3021.e	2685.e	2291.e	1893.e	1591.e	1355.e	1169.e	1018.e	895.e
1600S162-118	0.1242	50	11086.e	8868.e	7390.e	6027.e	4615.e	3646.e	2953.e	2441.e	2051.e	1748.e	1507.e	1313.e	1154.e



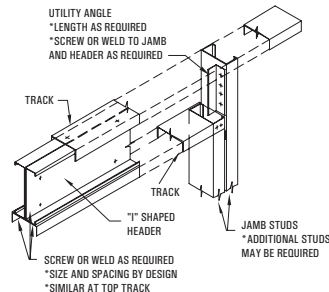
HEADER ALLOWABLE UNIFORM LOADS (lb/ft)

MEMBER	DESIGN THICKNESS (in.)	F _y	17	18	19	20	21	22	23	24	25	26	27	28	29	30
		(ksi)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
362S162-33	0.0346	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S162-43	0.0451	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S162-43 (50)	0.0451	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S162-54	0.0566	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S162-68	0.0713	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S162-97	0.1017	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S162-118	0.1242	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600S162-33	0.0346	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600S162-43	0.0451	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600S162-43 (50)	0.0451	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600S162-54	0.0566	50	51	-	-	-	-	-	-	-	-	-	-	-	-	-
600S162-68	0.0713	50	63	53	-	-	-	-	-	-	-	-	-	-	-	-
600S162-97	0.1017	50	85	72	61	52	-	-	-	-	-	-	-	-	-	-
600S162-118	0.1242	50	101	85	72	62	53	-	-	-	-	-	-	-	-	-
800S162-33	0.0346	33	60.e	50.e	-	-	-	-	-	-	-	-	-	-	-	-
800S162-43	0.0451	33	80.e	67.e	57.e	-	-	-	-	-	-	-	-	-	-	-
800S162-43 (50)	0.0451	50	78	66	56	-	-	-	-	-	-	-	-	-	-	-
800S162-54	0.0566	50	99	83	71	61	53	-	-	-	-	-	-	-	-	-
800S162-68	0.0713	50	125	106	90	77	67	58	51	-	-	-	-	-	-	-
800S162-97	0.1017	50	173	146	124	106	92	80	70	61	54	-	-	-	-	-
800S162-118	0.1242	50	205	172	147	126	109	94	83	73	64	57	51	-	-	-
1000S162-33	0.0346	33	82.e	73.e	66.e	59.e	52.e	-	-	-	-	-	-	-	-	-
1000S162-43	0.0451	33	119.e	106.e	95.e	82.e	71.e	61.e	54.e	-	-	-	-	-	-	-
1000S162-43 (50)	0.0451	50	129.e	109.e	92.e	79.e	68.e	60.e	52.e	-	-	-	-	-	-	-
1000S162-54	0.0566	50	166.e	140.e	119.e	102	88	76	67	59	52	-	-	-	-	-
1000S162-68	0.0713	50	212.e	179	152	130	112	98	86	75	67	59	53	-	-	-
1000S162-97	0.1017	50	302	254	216	185	160	139	122	107	95	84	75	68	61	55
1000S162-118	0.1242	50	359	302	257	220	190	166	145	128	113	100	90	80	72	65
1200S162-43	0.0451	33	144.e	129.e	116.e	104.e	95.e	86.e	79.e	72.e	63.e	56.e	50.e	-	-	-
1200S162-43 (50)	0.0451	50	163.e	154.e	139.e	120.e	103.e	90.e	79.e	69.e	61.e	54.e	-	-	-	-
1200S162-54	0.0566	50	252.e	212.e	180.e	154.e	133.e	116.e	102.e	89.e	79.e	70.e	63.e	56.e	51.e	-
1200S162-68	0.0713	50	325.e	274.e	233.e	199.e	172.e	150	131	115	102	91	81	73	65	59
1200S162-97	0.1017	50	473.e	399.e	339	291	251	218	191	168	149	132	118	106	95	86
1200S162-118	0.1242	50	572.e	482	410	351	303	264	231	203	180	160	143	128	115	104
1400S162-54	0.0566	50	277.e	261.e	248.e	220.e	190.e	165.e	144.e	127.e	112.e	100.e	89.e	80.e	72.e	65.e
1400S162-68	0.0713	50	433.e	386.e	333.e	285.e	247.e	214.e	188.e	165.e	146.e	130.e	116	104	94	85
1400S162-97	0.1017	50	679.e	579.e	492.e	422.e	364.e	317.e	277.e	244	216	192	171	154	138	125
1400S162-118	0.1242	50	846.e	712.e	606.e	519.e	449.e	390	342	301	266	236	211	189	170	154
1600S162-68	0.0713	50	485.e	446.e	401.e	362.e	328.e	292.e	256.e	225.e	199.e	177.e	158.e	142.e	127.e	115.e
1600S162-97	0.1017	50	793.e	707.e	635.e	573.e	502.e	437.e	382.e	336.e	298.e	265.e	236.e	212	191	172
1600S162-118	0.1242	50	1022.e	912.e	818.e	721.e	623.e	542.e	474.e	417.e	369.e	328	293	263	237	214

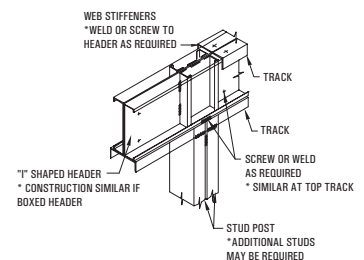
NOTE: See page 52 for Table Notes.



DETAIL A



DETAIL B



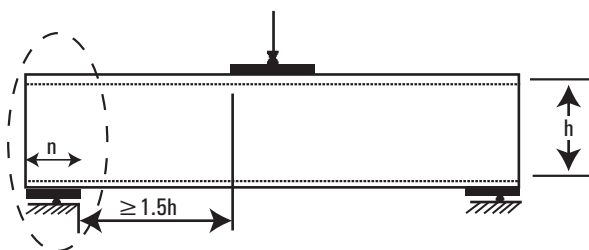
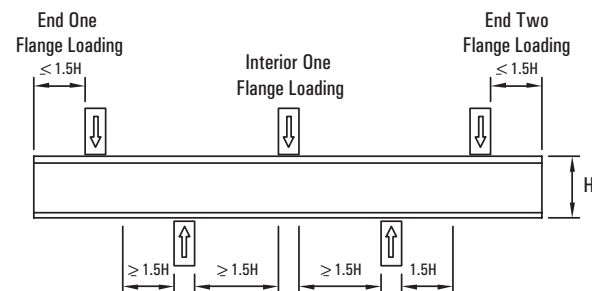
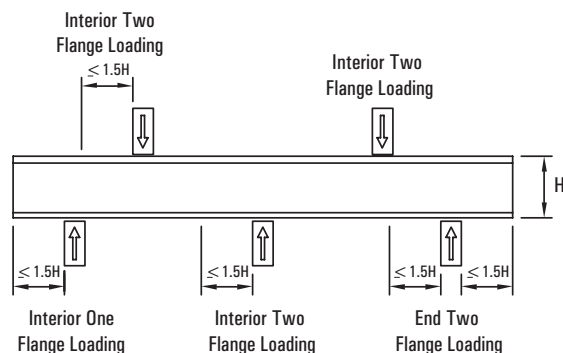
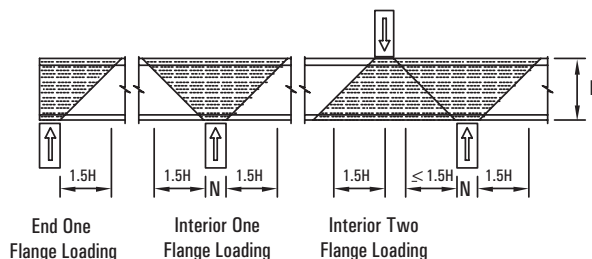
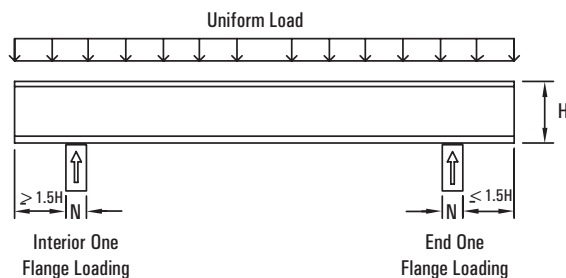
DETAIL C

WEB CRIPPLING LOAD TABLES

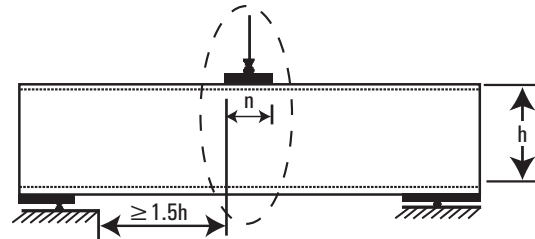
NOTES

1. Listed allowable loads apply only to C-sections.
2. For back-to-back members, the listed allowable loads are for the entire two-member assembly.
3. Listed allowable loads are based on members "fastened to supports", except back-to-back members under two-flange loading (Cases 3 and 4) for which data for "fastened to support" is unavailable in AISI S100.
4. For back-to-back members, the distance between the web connectors and the flange shall be kept to a minimum.
5. Listed allowable loads are for non-punched webs. Capacity reductions for end and interior one flange loading (Cases 1 and 2) near punchouts can be calculated based on AISI S100 (C3.4.2).
6. "h" refers to the flat dimension of the web. See web depth-to-thickness ratios table herein.
7. + If $N/h > 2$, then N was set equal to 2h.
8. * If $N/t > 210$, then N was set equal to 210(t)
9. See General Notes on Page 6.

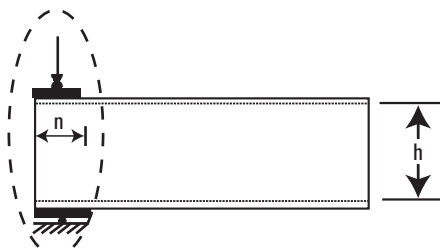
Web Crippling Cases



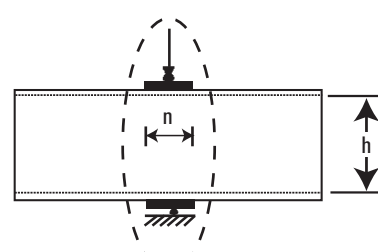
End One Flange Loading - Case 1



Interior One Flange Loading - Case 2



End Two Flange Loading - Case 3



Interior Two Flange Loading - Case 4

WEB CRIPPLING LOAD TABLES

Allowable Web Crippling Loads (lbs) - Single Members

MEMBER	DESIGN THICKNESS (in.)	DESIGNATION THICKNESS (mils)	F _y (ksi)	CASE 1			CASE 2			CASE 3			CASE 4		
				FASTENED TO SUPPORT BEARING LENGTH (in.)			FASTENED TO SUPPORT BEARING LENGTH (in.)			FASTENED TO SUPPORT BEARING LENGTH (in.)			FASTENED TO SUPPORT BEARING LENGTH (in.)		
				1.0	3.5	6.0	1.0	3.5	6.0	1.0	3.5	6.0	1.0	3.5	6.0
250S	0.0346	33	33	173	271	300+	330	453	491+	150	201	216+	411	519	552+
	0.0451	43	33	287	443	489+	580	780	840+	267	351	376+	720	892	943+
	0.0451	43	50	435	671	741+	878	1182	1272+	405	532	570+	1092	1352	1429+
	0.0566	54	50	656	996	1087+	1350	1785	1903+	652	842	893+	1730	2109	2212+
	0.0713	68	50	990	1480	1592+	2073	2693	2836+	1049	1333	1398+	2750	3302	3428+
	0.1017	97	50	1872	2726	2848+	4025	5095	5248+	2167	2683	2757+	5597	6575	6715+
362S	0.0346	33	33	165	259	322	323	444	525	129	173	202	381	480	547
	0.0451	43	33	277	427	526	570	767	898	236	311	360	675	836	943
	0.0451	43	50	419	647	798	863	1162	1360	358	471	546	1023	1267	1429
	0.0566	54	50	634	963	1182	1329	1758	2043	588	760	874	1635	1994	2232
	0.0713	68	50	962	1437	1752	2044	2657	3064	961	1221	1393	2618	3143	3492
	0.1017	97	50	1827	2659	3212	3978	5035	5738	2020	2501	2821	5374	6313	6936
400S	0.1242	118	50	2625	3764	4521	5799	7235	8189	3053	3729	4178	8044	9340	10201
	0.0346	33	33	163	256	317	322	442	522	122	164	192	372	469	534
	0.0451	43	33	274	422	520	567	763	893	227	299	346	662	819	924
	0.0451	43	50	415	639	789	859	1156	1354	344	453	525	1003	1242	1400
	0.0566	54	50	628	954	1170	1323	1750	2034	569	735	846	1607	1960	2194
	0.0713	68	50	953	1424	1737	2036	2646	3051	936	1188	1356	2579	3096	3440
600S	0.1017	97	50	1814	2640	3189	3965	5018	5718	1978	2448	2761	5309	6236	6852
	0.1242	118	50	2608	3739	4491	5781	7212	8163	2996	3659	4099	7956	9238	10090
	0.0346	33	33	153	240	297	313	430	507	93	125	146	329	416	473
	0.0451	43	33	259	400	493	553	745	872	185	243	282	600	743	838
	0.0451	43	50	393	605	747	838	1128	1321	281	369	427	909	1125	1269
	0.0566	54	50	599	909	1116	1295	1713	1991	482	623	716	1478	1802	2017
800S	0.0713	68	50	914	1366	1666	1998	2596	2994	816	1036	1183	2399	2881	3201
	0.1017	97	50	1752	2551	3081	3902	4939	5628	1781	2205	2487	5010	5885	6466
	0.1242	118	50	2528	3625	4354	5698	7108	8046	2734	3339	3741	7555	8772	9581
	0.0346	33	33	247	381	470	542	730	854	150	197	228	548	678	765
	0.0451	43	33	374	577	712	821	1105	1294	227	298	346	830	1028	1159
	0.0451	43	50	575	872	1070	1272	1682	1955	409	529	608	1370	1670	1869
1000S	0.0566	54	50	882	1318	1607	1966	2555	2946	716	910	1038	2250	2701	3001
	0.0713	68	50	1702	2477	2992	3850	4873	5553	1618	2003	2259	4761	5593	6145
	0.1017	97	50	2462	3531	4241	5629	7023	7949	2518	3075	3445	7223	8387	9160
	0.0566	54	50	553	840	1031	1251	1655	1923	346	447	514	1275	1554	1740
	0.0713	68	50	854	1275	1555	1938	2518	2904	629	799	912	2119	2544	2826
	0.1017	97	50	1657	2412	2914	3805	4815	5487	1476	1827	2060	4545	5338	5866
1200S	0.1242	118	50	2405	3449	4143	5569	6948	7864	2330	2845	3187	6934	8051	8794
	0.0713	68	50	828	1237	1509	1913	2485	2866	551	699	798	2001	2402	2669
	0.1017	97	50	1618	2355	2844	3764	4764	5428	1348	1668	1882	4350	5109	5614
	0.1242	118	50	2354	3375	4054	5515	6881	7788	2161	2638	2956	6675	7750	8465
	0.0713	68	50	805	1202	1466	1889	2455	2831	479	608	694	1892	2272	2525
	0.1017	97	50	1581	2301	2780	3726	4716	5374	1230	1523	1718	4171	4900	5384
1600S	0.1242	118	50	2307	3308	3973	5466	6819	7719	2006	2449	2744	6437	7474	8164
	0.1017	97	50	1547	2252	2721	3692	4673	5324	1121	1388	1566	4005	4705	5170
	0.1242	118	50	2263	3245	3898	5420	6762	7654	1862	2274	2548	6217	7219	7884

NOTE: See page 54 for Table Notes.

WEB CRIPPLING LOADS

Allowable Web Crippling Loads (lbs) - Back to Back Members

MEMBER	DESIGN THICKNESS (in.)	DESIGNATION THICKNESS (mils)	F _y (ksi)	CASE 1			CASE 2			CASE 3			Case 4		
				FASTENED TO SUPPORT BEARING LENGTH (in.)			FASTENED TO SUPPORT BEARING LENGTH (in.)			FASTENED TO SUPPORT BEARING LENGTH (in.)			FASTENED TO SUPPORT BEARING LENGTH (in.)		
				1.0	3.5	6.0	1.0	3.5	6.0	1.0	3.5	6.0	1.0	3.5	6.0
250S	0.0346	33	33	777	1015+	1015+	1092	1298+	1298+	512	591+	591+	1088	1255+	1255+
	0.0451	43	33	1273	1640+	1640+	1864	2186+	2186+	910	1036+	1036+	1964	2236+	2236+
	0.0451	43	50	1929	2484+	2484+	2824	3312+	3312+	1379	1570+	1570+	2976	3388+	3388+
	0.0566	54	50	2871	3630+	3630+	4318	4986+	4986+	2213	2485+	2485+	4786	5375+	5375+
	0.0713	68	50	4291	5310+	5310+	6621	7518+	7518+	3557	3937+	3937+	7692	8515+	8515+
	0.1017	97	50	8011	9551+	9551+	12845	14200+	14200+	7342	7948+	7948+	15879	17189+	17189+
362S	0.0346	33	33	776	1170+	1170+	1090	1432+	1432+	458	574+	574+	972	1219+	1219+
	0.0451	43	33	1271	1880+	1880+	1861	2396+	2396+	830	1021+	1021+	1790	2203+	2203+
	0.0451	43	50	1926	2848+	2848+	2820	3630+	3630+	1257	1547+	1547+	2713	3338+	3338+
	0.0566	54	50	2867	4150+	4150+	4312	5441+	5441+	2045	2471+	2471+	4422	5343+	5343+
	0.0713	68	50	4285	6057+	6057+	6613	8171+	8171+	3322	3941+	3941+	7185	8523+	8523+
	0.1017	97	50	8002	10866+	10866+	12831	15350+	15350+	6946	8012+	8012+	15022	17328+	17328+
400S	0.0346	33	33	776	1181	1215+	1089	1442	1471+	442	557	567+	937	1183	1203+
	0.0451	43	33	1271	1900	1951+	1860	2413	2457+	806	998	1013+	1739	2154	2187+
	0.0451	43	50	1925	2879	2956+	2818	3656	3723+	1221	1512	1536+	2635	3263	3314+
	0.0566	54	50	2866	4215	4303+	4310	5497	5575+	1995	2432	2461+	4315	5260	5322+
	0.0713	68	50	4284	6193	6276+	6610	8290	8363+	3253	3906	3935+	7036	8448	8510+
	0.1017	97	50	8000	11248+	11248+	12827	15684+	15684+	6830	8020+	8020+	14772	17346+	17346+
600S	0.0346	33	33	774	1178	1426+	1086	1438	1653+	366	462	521+	778	982	1107+
	0.0451	43	33	1268	1896	2279+	1856	2408	2744+	696	862	963+	1501	1859	2077+
	0.0451	43	50	1921	2873	3452+	2812	3648	4157+	1054	1305	1458+	2275	2817	3147+
	0.0566	54	50	2860	4207	5011+	4302	5486	6193+	1765	2152	2383+	3818	4654	5154+
	0.0713	68	50	4276	6182	7287+	6599	8275	9247+	2935	3524	3865+	6347	7621	8359+
	0.1017	97	50	7988	11240	13004+	12808	15668	17220+	6299	7399	7996+	13623	16002	17294+
800S	0.0346	33	33	1266	1892	2309	1853	2403	2769	603	747	843	1302	1613	1819
	0.0451	43	33	1918	2867	3498	2807	3641	4195	914	1132	1277	1973	2443	2756
	0.0451	43	50	2855	4200	5093	4295	5477	6263	1573	1918	2147	3402	4148	4643
	0.0566	54	50	4270	6173	7438	6589	8263	9375	2669	3205	3561	5772	6931	7701
	0.0713	68	50	7978	11226	13384	12792	15649	17547	5859	6882	7562	12671	14883	16354
	0.1017	97	50	11379	15766	18682	18629	22488	25052	9028	10482	11449	19524	22670	24760
1000S	0.0566	54	50	2851	4194	5086	4288	5469	6254	1405	1713	1917	3038	3704	4146
	0.0713	68	50	4264	6165	7428	6580	8252	9363	2437	2926	3251	5270	6327	7030
	0.1017	97	50	7969	11213	13369	12778	15631	17528	5474	6430	7065	11839	13906	15280
	0.1242	118	50	11368	15751	18663	18610	22466	25027	8515	9887	10798	18416	21383	23354
1200S	0.0713	68	50	4259	6158	7419	6573	8243	9352	2227	2674	2971	4817	5784	6426
	0.1017	97	50	7961	11202	13356	12765	15616	17511	5128	6024	6619	11091	13028	14315
	0.1242	118	50	11358	15737	18647	18594	22446	25005	8055	9352	10215	17420	20227	22091
1400S	0.0713	68	50	4255	6151	7411	6566	8234	9342	2035	2444	2715	4401	5285	5872
	0.1017	97	50	7954	11192	13344	12754	15602	17495	4811	5651	6210	10405	12223	13430
	0.1242	118	50	11348	15724	18631	18579	22427	24985	7633	8863	9680	16509	19168	20936
1600S	0.1017	97	50	7947	11183	13333	12743	15589	17480	4517	5306	5830	9769	11475	12609
	0.1242	118	50	11340	15712	18617	18565	22410	24966	7242	8409	9184	15663	18187	19864

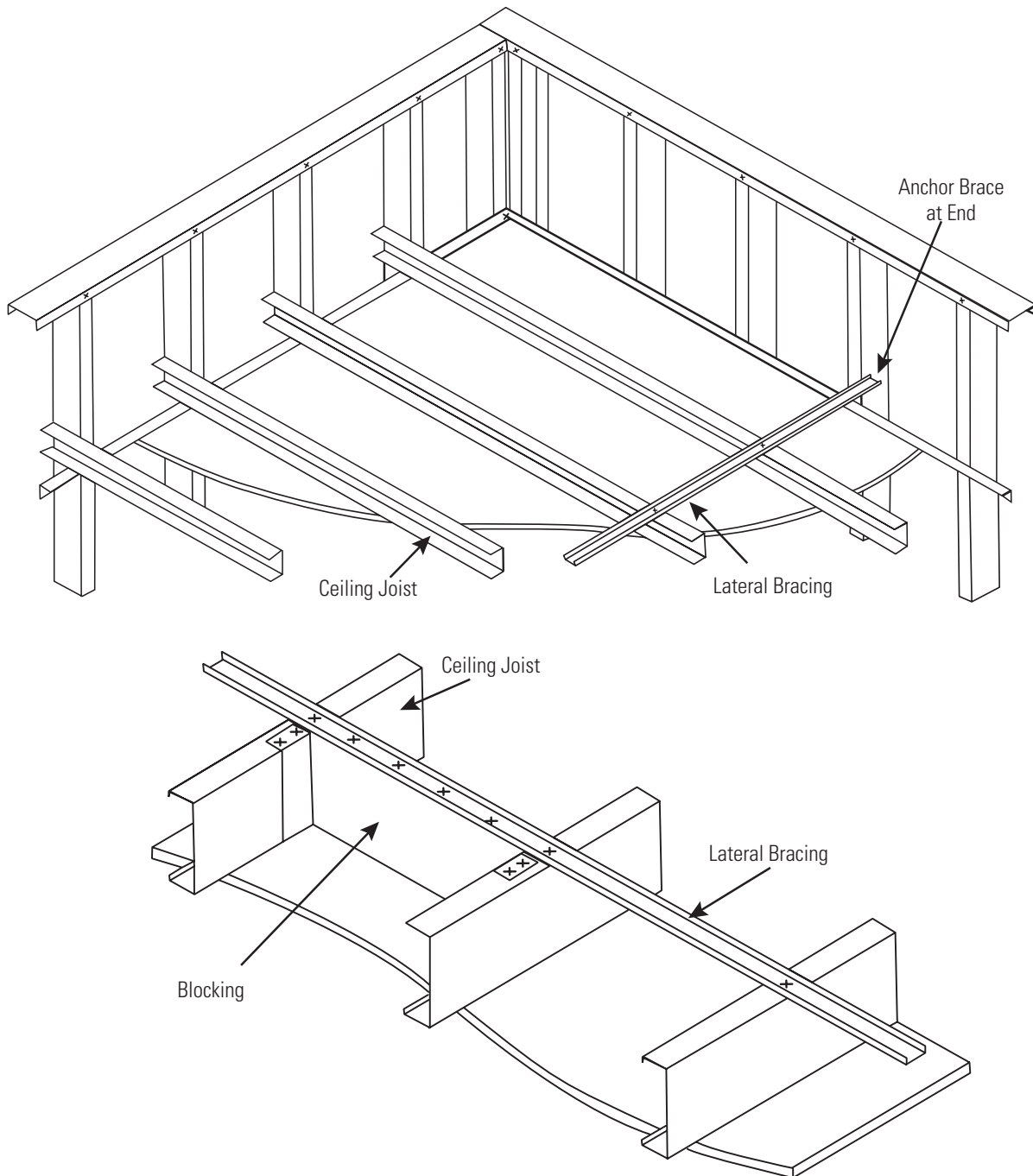
NOTE: See page 54 for Table Notes.

CEILING SPANS (C-SECTIONS)

NOTES

1. Values are for simple span conditions.
2. For unbraced sections, the allowable moment is based on AISI S100 (C3.1.2) with the unbraced length assumed to be the listed span. For mid-span braced members, the allowable moment is based on AISI S100 (C3.1.2) with the unbraced length to be half the listed span.
3. Web crippling calculation is based on a bearing length of 1".
4. Web crippling and shear capacity have NOT been reduced for punchouts. If web punchouts occur near supports, members must be checked for reduced shear and web crippling based on AISI S100.
5. "e" indicates that web stiffeners are required at ends.
6. * 13 psf requires a G60 minimum coating.
7. See General Notes on Page 6.

Mid-Span Bracing Details for Ceilings



GENERAL NOTE: All connections should be designed by a licensed design professional.

CEILING SPANS (C-SECTIONS)

Allowable Ceiling Spans (ft) - L/240

MEMBER		F _y (ksi)	4 psf LATERAL SPPORT OF COMPRESSION FLANGE						6 psf LATERAL SPPORT OF COMPRESSION FLANGE						13 psf* LATERAL SPPORT OF COMPRESSION FLANGE					
			UNSUPPORTED			MIDSPAN			UNSUPPORTED			MIDSPAN			UNSUPPORTED			MIDSPAN		
			JOIST SPACING (in.) o.c.						JOIST SPACING (in.) o.c.						JOIST SPACING (in.) o.c.					
12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24			
250S137-33	33	11' 9"	10' 10"	9' 9"	14' 11"	13' 6"	11' 10"	10' 6"	9' 9"	8' 8"	13' 0"	11' 10"	10' 4"	8' 6"	7' 10"	7' 0"	10' 0"	9' 1"	8' 0"	
250S137-43	33	13' 2"	12' 1"	10' 9"	16' 2"	14' 8"	12' 10"	11' 8"	10' 9"	9' 7"	14' 2"	12' 10"	11' 3"	9' 4"	8' 7"	7' 8"	10' 11"	9' 11"	8' 8"	
250S137-43 (50)	50	13' 2"	12' 1"	10' 9"	16' 2"	14' 8"	12' 10"	11' 8"	10' 9"	9' 7"	14' 2"	12' 10"	11' 3"	9' 4"	8' 7"	7' 8"	10' 11"	9' 11"	8' 8"	
250S162-33	33	13' 5"	12' 5"	11' 1"	15' 8"	14' 3"	12' 5"	12' 0"	11' 1"	10' 0"	13' 8"	12' 5"	10' 10"	9' 9"	9' 0"	8' 0"	10' 7"	9' 7"	8' 4"	
250S162-43	33	14' 11"	13' 9"	12' 3"	17' 0"	15' 5"	13' 6"	13' 3"	12' 3"	10' 11"	14' 10"	13' 6"	11' 9"	10' 8"	9' 10"	8' 9"	11' 6"	10' 5"	9' 1"	
250S162-43 (50)	50	14' 11"	13' 9"	12' 3"	17' 0"	15' 5"	13' 6"	13' 3"	12' 3"	10' 11"	14' 10"	13' 6"	11' 9"	10' 8"	9' 10"	8' 10"	11' 6"	10' 5"	9' 1"	
362S137-33	33	12' 11"	11' 11"	10' 8"	18' 3"	16' 11"	15' 2"	11' 7"	10' 8"	9' 7"	16' 4"	15' 2"	13' 5"	9' 5"	8' 9"	7' 10"	13' 1"	11' 11"	10' 2"	
362S137-43	33	14' 4"	13' 2"	11' 9"	20' 0"	18' 6"	16' 6"	12' 9"	11' 9"	10' 6"	17' 10"	16' 6"	14' 9"	10' 3"	9' 6"	8' 6"	14' 5"	13' 2"	11' 5"	
362S137-43 (50)	50	14' 4"	13' 2"	11' 9"	20' 0"	18' 6"	16' 6"	12' 9"	11' 9"	10' 6"	17' 10"	16' 6"	14' 9"	10' 3"	9' 6"	8' 6"	14' 6"	13' 3"	11' 6"	
362S162-33	33	14' 8"	13' 7"	12' 2"	20' 9"	18' 11"	16' 6"	13' 2"	12' 2"	11' 0"	18' 2"	16' 6"	14' 5"	10' 9"	9' 11"	8' 11"	14' 0"	12' 9"	11' 1"	
362S162-43	33	16' 2"	14' 11"	13' 4"	22' 7"	20' 7"	17' 11"	14' 5"	13' 4"	11' 11"	19' 9"	17' 11"	15' 8"	11' 8"	10' 9"	9' 8"	15' 3"	13' 10"	12' 1"	
362S162-43 (50)	50	16' 2"	14' 11"	13' 4"	22' 7"	20' 7"	17' 11"	14' 5"	13' 4"	11' 11"	19' 9"	17' 11"	15' 8"	11' 8"	10' 9"	9' 8"	15' 3"	13' 10"	12' 1"	
400S137-33	33	13' 3"	12' 3"	11' 0"	18' 9"	17' 4"	15' 6"	11' 11"	11' 0"	9' 10"	16' 9"	15' 6"	13' 10"	9' 8"	9' 0"	8' 1"	13' 6"	12' 4"	10' 7"	
400S137-43	33	14' 8"	13' 6"	12' 0"	20' 6"	18' 11"	16' 11"	13' 0"	12' 0"	10' 9"	18' 4"	16' 11"	15' 2"	10' 6"	9' 9"	8' 8"	14' 10"	13' 7"	11' 10"	
400S137-43 (50)	50	14' 8"	13' 6"	12' 0"	20' 6"	18' 11"	16' 11"	13' 0"	12' 0"	10' 9"	18' 4"	16' 11"	15' 2"	10' 6"	9' 9"	8' 8"	14' 10"	13' 9"	12' 4"	
400S162-33	33	15' 1"	14' 0"	12' 6"	21' 5"	19' 10"	17' 9"	13' 6"	12' 6"	11' 3"	19' 2"	17' 9"	15' 6"	11' 0"	10' 3"	9' 3"	15' 2"	13' 9"	11' 9"	
400S162-43	33	16' 7"	15' 3"	13' 8"	23' 4"	21' 7"	19' 4"	14' 9"	13' 8"	12' 3"	20' 10"	19' 4"	16' 11"	12' 0"	11' 1"	9' 11"	16' 6"	15' 0"	13' 1"	
400S162-43 (50)	50	16' 7"	15' 3"	13' 8"	23' 4"	21' 7"	19' 4"	14' 9"	13' 8"	12' 3"	20' 10"	19' 4"	16' 11"	12' 0"	11' 1"	9' 11"	16' 6"	15' 0"	13' 1"	
600S137-33	33	14' 10"	13' 9"	12' 4"	21' 4"	19' 10"	17' 10"	13' 4"	12' 4"	11' 1"	19' 3"	17' 10"	16' 0"	10' 10"	10' 1"	9' 1"	15' 8"	14' 6"	12' 10"	
600S137-43	33	16' 2"	15' 0"	13' 5"	23' 0"	21' 4"	19' 2"	14' 6"	13' 5"	12' 0"	20' 8"	19' 2"	17' 3"	11' 9"	10' 10"	9' 9"	16' 11"	15' 8"	14' 1"	
600S137-43 (50)	50	16' 2"	15' 0"	13' 5"	23' 0"	21' 4"	19' 2"	14' 6"	13' 5"	12' 0"	20' 8"	19' 2"	17' 3"	11' 9"	10' 10"	9' 9"	16' 11"	15' 8"	14' 1"	
600S162-33	33	16' 10"	15' 8"	14' 1"	24' 4"	22' 7"	20' 4"	15' 2"	14' 1"	12' 8"	21' 11"	20' 4"	18' 4"	12' 5"	11' 6"	10' 4"	18' 0"	16' 8"	14' 10"	
600S162-43	33	18' 4"	17' 0"	15' 3"	26' 3"	24' 4"	21' 10"	16' 5"	15' 3"	13' 8"	23' 7"	21' 10"	19' 8"	13' 4"	12' 5"	11' 2"	19' 3"	17' 11"	16' 0"	
600S162-43 (50)	50	18' 4"	17' 0"	15' 3"	26' 3"	24' 4"	21' 10"	16' 5"	15' 3"	13' 8"	23' 7"	21' 10"	19' 8"	13' 4"	12' 5"	11' 2"	19' 3"	17' 11"	16' 1"	
800S137-33	33	16' 1"	14' 11"	13' 5"	23' 2"	21' 5"	19' 2"	14' 6"	13' 5"	12' 1"	20' 9"	19' 2"	17' 2"	11' 10"	11' 0"	9' 11"	16' 10"	15' 7"	14' 0"	
800S137-43	33	17' 6"	16' 2"	14' 6"	25' 0"	23' 2"	20' 10"	15' 8"	14' 6"	13' 0"	22' 6"	20' 10"	18' 9"	12' 9"	11' 10"	10' 7"	18' 4"	17' 0"	15' 3"	
800S137-43 (50)	50	17' 6"	16' 2"	14' 6"	25' 0"	23' 2"	20' 10"	15' 8"	14' 6"	13' 0"	22' 6"	20' 10"	18' 9"	12' 9"	11' 10"	10' 7"	18' 4"	17' 0"	15' 3"	
800S162-33	33	18' 4"	17' 0"	15' 4"	26' 4"	24' 4"	21' 10"	16' 6"	15' 4"	13' 9"	23' 7"	21' 10"	19' 7"	13' 6"	12' 6"	11' 3"	19' 2"	17' 9"	15' 10"	
800S162-43	33	19' 10"	18' 4"	16' 6"	28' 6"	26' 5"	23' 9"	17' 10"	16' 6"	14' 10"	25' 8"	23' 9"	21' 4"	14' 6"	13' 6"	12' 1"	20' 11"	19' 4"	17' 4"	
800S162-43 (50)	50	19' 10"	18' 4"	16' 6"	28' 6"	26' 5"	23' 9"	17' 10"	16' 6"	14' 10"	25' 8"	23' 9"	21' 4"	14' 6"	13' 6"	12' 1"	20' 11"	19' 4"	17' 4"	

Allowable Ceiling Spans (ft) - L/360

MEMBER		F _y (ksi)	4 psf LATERAL SPPORT OF COMPRESSION FLANGE						6 psf LATERAL SPPORT OF COMPRESSION FLANGE						13 psf* LATERAL SPPORT OF COMPRESSION FLANGE					
			UNSUPPORTED			MIDSPAN			UNSUPPORTED			MIDSPAN			UNSUPPORTED			MIDSPAN		
			JOIST SPACING (in.) o.c.						JOIST SPACING (in.) o.c.						JOIST SPACING (in.) o.c.					
12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
250S137-33	33	11' 9"	10' 10"	9' 9"	13' 0"	11' 10"	10' 4"	10' 6"	9' 9"	8' 8"	11' 4"	10' 4"	9' 0"	8' 6"	7' 10"	6' 11"	8' 9"	8' 0"	6' 11"	
250S137-43	33	13' 2"	12' 1"	10' 9"	14' 2"	12' 10"	11' 3"	11' 8"	10' 9"	9' 7"	12' 4"	11' 3"	9' 9"	9' 4"	8' 7"	7' 7"	9' 6"	8' 8"	7' 7"	
250S137-43 (50)	50	13' 2"	12' 1"	10' 9"	14' 2"	12' 10"	11' 3"	11' 8"	10' 9"	9' 7"	12' 4"	11' 3"	9' 9"	9' 4"	8' 7"	7' 7"	9' 6"	8' 8"	7' 7"	
250S162-33	33	13' 5"	12' 5"	10' 10"	13' 8"	12' 5"	10' 10"	11' 11"	10' 10"	9' 6"	11' 11"	10' 10"	9' 6"	9' 3"	8' 4"	7' 4"	9' 3"	8' 4"	7' 4"	
250S162-43	33	14' 10"	13' 6"	11' 9"	14' 10"	13' 6"	11' 9"	13' 0"	11' 9"	10' 3"	13' 0"	11' 9"	10' 3"	10' 0"	9' 1"	7' 11"	10' 0"	9' 1"	7' 11"	
250S162-43 (50)	50	14' 10"	13' 6"	11' 9"	14' 10"	13' 6"	11' 9"	13' 0"	11' 9"	10' 3"	13' 0"	11' 9"	10' 3"	10' 0"	9' 1"	7' 11"	10' 0"	9' 1"	7' 11"	
362S137-33	33	12' 11"	11' 11"	10' 8"	17' 4"	15' 9"	13' 9"	11' 7"	10' 8"	9' 7"	15' 2"	13' 9"	12' 0"	9' 5"	8' 9"	7' 10"	11' 8"	10' 7"	9' 3"	
362S137-43	33	14' 4"	13' 2"	11' 9"	18' 10"	17' 1"	14' 11"	12' 9"	11' 9"	10' 6"	16' 6"	14' 11"	13' 1"	10' 3"	9' 6"	8' 6"	12' 9"	11' 6"	10' 1"	
362S137-43 (50)	50	14' 4"	13' 2"	11' 9"	18' 10"	17' 1"	14' 11"	12' 9"	11' 9"	10' 6"	16' 6"	14' 11"	13' 1"	10' 3"	9' 6"	8' 6"	12' 9"	11' 6"	10' 1"	
362S162-33	33	14' 8"	13' 7"	12' 2"	18' 2"	16' 6"	14' 5"	13' 2"	12' 2"	11' 0"	15' 10"	14' 5"	12' 7"	10' 9"	9' 11"	8' 11"	12' 3"	11' 1"	9' 9"	
362S162-43	33	16' 2"	14' 11"	13' 4"	19' 9"	17' 11"	15' 8"	14' 5"	13' 4"	11' 11"	17' 3"	15' 8"	13' 8"	11' 8"	10' 9"	9' 8"	13' 4"	12' 1"	10' 7"	
362S162-43 (50)	50	16' 2"	14' 11"	13' 4"	19' 9"	17' 11"	15' 8"	14' 5"	13' 4"	11' 11"	17' 3"	15' 8"	13' 8"	11' 8"	10' 9"	9' 8"	13' 4"	12' 1"	10' 7"	
400S137-33	33	13' 3"	12' 3"	11' 0"	18' 9"	17' 0"	14' 10"	11' 11"	11' 0"	9' 10"	16' 4"	14' 10"	13' 0"	9' 8"	9' 0"	8' 1"	12' 7"	11' 6"	10' 0"	
400S137-43	33	14' 8"	13' 6"	12' 0"	20' 4"	18' 6"	16' 2"	13' 0"	12' 0"	10' 9"	17' 9"	16' 2"	14' 1"	10' 6"	9' 9"	8' 8"	13' 9"	12' 6"	10' 11"	
400S137-43 (50)	50	14' 8"	13' 6"	12' 0"	20' 4"	18' 6"	16' 2"	13' 0"	12' 0"	10' 9"	17' 9"	16' 2"	14' 1"	10' 6"	9' 9"	8' 8"	13' 9"	12' 6"	10' 11"	
400S162-33	33	15' 1"	14' 0"	12' 6"	19' 7"	17' 9"	15' 6"	13' 6"	12' 6"	11' 3"	17' 1"	15' 6"	13' 7"	11' 0"	10' 3"	9' 3"	13' 3"	12' 0"	10' 6"	
400S162-43	33	16' 7"	15' 3"	13' 8"	21' 4"	19' 4"	16' 11"	14' 9"	13' 8"	12' 3"	18' 7"	16' 11"	14' 9"	12' 0"	11' 1"	9' 11"	14' 5"	13' 1"	11' 5"	
400S162-43 (50)	50	16' 7"	15' 3"	13' 8"	21' 4"	19' 4"	16' 11"	14' 9"	13' 8"	12' 3"	18' 7"	16' 11"	14' 9"	12' 0"	11' 1"	9' 11"	14' 5"	13' 1"	11' 5"	
600S137-33	33	14' 10"	13' 9"	12' 4"	21' 4"	19' 10"	17' 10"	13' 4"	12' 4"	11' 1"	19' 3"	17' 10"	16' 0"	10' 10"	10' 1"	9' 1"	15' 8"	14' 6"	12' 10"	
600S137-43	33	16' 2"	15' 0"	13' 5"	23' 0"	21' 4"	19' 2"	14' 6"	13' 5"	12' 0"	20' 8"	19' 2"	17' 3"	11' 9"	10' 10"	9' 9"	16' 11"	15' 8"	14' 1"	
600S137-43 (50)	50	16' 2"	15' 0"	13' 5"	23' 0"	21' 4"	19' 2"	14' 6"	13' 5"	12' 0"	20' 8"	19' 2"	17' 3"	11' 9"	10' 10"	9' 9"	16' 11"	15' 8"	14' 1"	
600S162-33	33	16' 10"	15' 8"	14' 1"	24' 4"	22' 7"	20' 4"	15' 2"	14' 1"	12' 8"	21' 11"	20' 4"	18' 4"	12' 5"	11' 6"	10' 4"	18' 0"	16' 6"	14' 4"	
600S162-43	33	18' 4"	17' 0"	15' 3"	26' 3"	24' 4"	21' 10"	16' 5"	15' 3"	13' 8"	23' 7"	21' 10"	19' 8"	13' 4"	12' 5"	11' 2"	19' 3"	17' 11"	15' 8"	
600S162-43 (50)	50	18' 4"	17' 0"	15' 3"	26' 3"	24' 4"	21' 10"	16' 5"	15' 3"	13' 8"	23' 7"	21' 10"	19' 8"	13' 4"	12' 5"	11' 2"	19' 3"	17' 11"	15' 8"	
800S137-33	33	16' 1"	14' 11"	13' 5"	23' 2"	21' 5"	19' 2"	14' 6"	13' 5"	12' 1"	20' 9"	19' 2"	17' 2"	11' 10"	11' 0"	9' 11"	16' 10"	15' 7"	14' 0"	
800S137-43	33	17' 6"	16' 2"	14' 6"	25' 0"	23' 2"	20' 10"	15' 8"	14' 6"	13' 0"	22' 6"	20' 10"	18' 9"	12' 9"	11' 10"	10' 7"	18' 4"	17' 0"	15' 3"	
800S137-43 (50)	50	17' 6"	16' 2"	14' 6"	25' 0"	23' 2"	20' 10"	15' 8"	14' 6"	13' 0"	22' 6"	20' 10"	18' 9"	12' 9"	11' 10"	10' 7"	18' 4"	17' 0"	15' 3"	
800S162-33	33	18' 4"	17' 0"	15' 4"	26' 4"	24' 4"	21' 10"	16' 6"	15' 4"	13' 9"	23' 7"	21' 10"	19' 7"	13' 6"	12' 6"	11' 3"	19' 2"	17' 9"	15' 10"	
800S162-43	33	19' 10"	18' 4"	16' 6"	28' 6"	26' 5"	23' 9"	17' 10"	16' 6"	14' 10"	25' 8"	23' 9"	21' 4"	14' 6"	13' 6"	12' 1"	20' 11"	19' 4"	17' 4"	
800S162-43 (50)	50	19' 10"	18' 4"	16' 6"	28' 6"	26' 5"	23' 9"	17' 10"	16' 6"	14' 10"	25' 8"	23' 9"	21' 4"	14' 6"	13' 6"	12' 1"	20' 11"	19' 4"	17' 4"	

SECTION PROPERTIES AND CEILING SPANS (U-SECTIONS)

CEILING SPAN NOTES

1. Multiple span indicates two or more equal spans continuous over interior supports.
2. Compression flanges assumed unbraced.
3. Web crippling based on 3/4" bearing at end and interior supports.
4. When applicable, cold work of forming was considered as per Section A7.2 of AISI S100.
5. * Requires an approved CP60/ G60 coating

Allowable Ceiling Spans (U-Sections) - L/240

MEMBER	F _y (ksi)	SPAN TYPE	4 psf CHANNEL SPACING (in.) o.c.					6 psf CHANNEL SPACING (in.) o.c.					13 psf CHANNEL SPACING (in.) o.c.					15 psf 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	33	Single	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"	3' 4"	2' 11"	2' 8"	2' 6"	2' 4"	2' 7"	2' 3"	2' 1"	1' 11"	1' 9"	2' 6"	2' 2"	1' 11"	1' 10"	1' 8"
	33	Multiple	4' 9"	4' 2"	3' 9"	3' 6"	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' 3"	2' 0"	1' 9"
150U050-54	33	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 4"	3' 9"	3' 3"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 8"	2' 6"
	33	Multiple	7' 1"	6' 2"	5' 7"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 9"	4' 2"	3' 10"	3' 6"	3' 2"	4' 7"	4' 0"	3' 7"	3' 3"	3' 0"
200U050-54	33	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 5"	4' 1"	3' 9"	3' 7"	3' 11"	3' 6"	3' 2"	2' 11"	2' 9"	3' 9"	3' 4"	3' 0"	2' 10"	2' 8"
	33	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 6"	5' 0"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 4"
250U050-54	33	Single	6' 1"	5' 3"	4' 10"	4' 6"	4' 3"	5' 3"	4' 8"	4' 3"	3' 11"	3' 9"	4' 1"	3' 7"	3' 4"	3' 1"	2' 11"	3' 11"	3' 6"	3' 2"	2' 11"	2' 9"
	33	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' 2"	3' 11"	3' 8"	5' 0"	4' 5"	4' 0"	3' 9"	3' 6"

Allowable Ceiling Spans (U-Sections) - L/360

MEMBER	F _y (ksi)	SPAN TYPE	4 psf CHANNEL SPACING (in.) o.c.					6 psf CHANNEL SPACING (in.) o.c.					13 psf CHANNEL SPACING (in.) o.c.					15 psf 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	33	Single	3' 4"	2' 11"	2' 8"	2' 6"	2' 4"	2' 11"	2' 7"	2' 4"	2' 2"	2' 0"	2' 3"	2' 0"	1' 9"	1' 8"	1' 7"	2' 2"	1' 10"	1' 8"	1' 7"	1' 6"
	33	Multiple	4' 2"	3' 8"	3' 4"	3' 1"	2' 10"	3' 8"	3' 2"	2' 10"	2' 8"	2' 6"	2' 10"	2' 5"	2' 3"	2' 1"	1' 11"	2' 8"	2' 4"	2' 1"	1' 11"	1' 9"
150U050-54	33	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 4"	3' 9"	3' 3"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 8"	2' 6"
	33	Multiple	7' 1"	6' 2"	5' 7"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 9"	4' 2"	3' 10"	3' 6"	3' 2"	4' 7"	4' 0"	3' 7"	3' 3"	3' 0"
200U050-54	33	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 5"	4' 1"	3' 9"	3' 7"	3' 11"	3' 6"	3' 2"	2' 11"	2' 9"	3' 9"	3' 4"	3' 0"	2' 10"	2' 8"
	33	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 6"	5' 0"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 4"
250U050-54	33	Single	6' 1"	5' 3"	4' 10"	4' 6"	4' 3"	5' 3"	4' 8"	4' 3"	3' 11"	3' 9"	4' 1"	3' 7"	3' 4"	3' 1"	2' 11"	3' 11"	3' 6"	3' 2"	2' 11"	2' 9"
	33	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' 2"	3' 11"	3' 8"	5' 0"	4' 5"	4' 0"	3' 9"	3' 6"

U-Channel Section Properties

MEMBER	F _y (ksi)	DESIGN THICKNESS (in.)	AREA (in. ²)	WEIGHT (lb/ft)	GROSS PROPERTIES				EFFECTIVE PROPERTIES			
					I _x (in. ⁴)	r _x (in.)	I _y (in. ⁴)	r _y (in.)	I _{xd} (in. ⁴)	S _{xe} (in. ³)	M _a (in.-k)	V _a (lb)
75U050-54	33	0.0566	0.0867	0.295	0.00720	0.288	0.00210	0.156	0.00720	0.0192	0.454	315
150U050-54	33	0.0566	0.129	0.439	0.0387	0.548	0.00271	0.145	0.0387	0.0516	1.22	840
200U050-54	33	0.0566	0.158	0.536	0.0792	0.709	0.00294	0.137	0.0792	0.0792	1.88	1190
250U050-54	33	0.0566	0.186	0.632	0.139	0.866	0.00310	0.129	0.139	0.112	2.64	1540

Note: Inside bend radius taken as 3/32".



★ **MarinoWARE®**
New Jersey Plant
400 Metuchen Rd.
South Plainfield, NJ 07080
P: 800.627.4661
F: 908.412.1442

★ **MarinoWARE®**
Georgia Plant
777 Greenbelt Pkwy.
Griffin, GA 30223
P: 800.504.8199
F: 678.688.1379

★ **MarinoWARE®**
Indiana Plant
4245 Railroad Ave.
East Chicago, IN 46312
P: 219.378.7100
F: 219.378.7106

★ **MarinoWARE®**
Texas Plant
10101 Bay Area Blvd.
Pasadena, TX 77507
P: 800.504.8199
F: 281.283.8105

★ **MarinoWARE®**
New York Sales Office
137 Broadway, Ste. B1
Amityville, NY 11701
P: 800.627.4667
F: 631.691.1492

www.MarinoWARE.com

For more information, please contact MarinoWARE® Technical Services at 866-545-1545

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