BAILEY®
METAL PRODUCTS LIMITED

IMPERIAL

COLD FORMED STEEL 118 MILS – 10 GAUGE LOAD TABLES

BMAXX™ FRAMING SYSTEM

SUPER-SPAN™ HEADERS & JOISTS

MONTREAL • TORONTO • CALGARY • EDMONTON • VANCOUVER

www.bmp-group.com

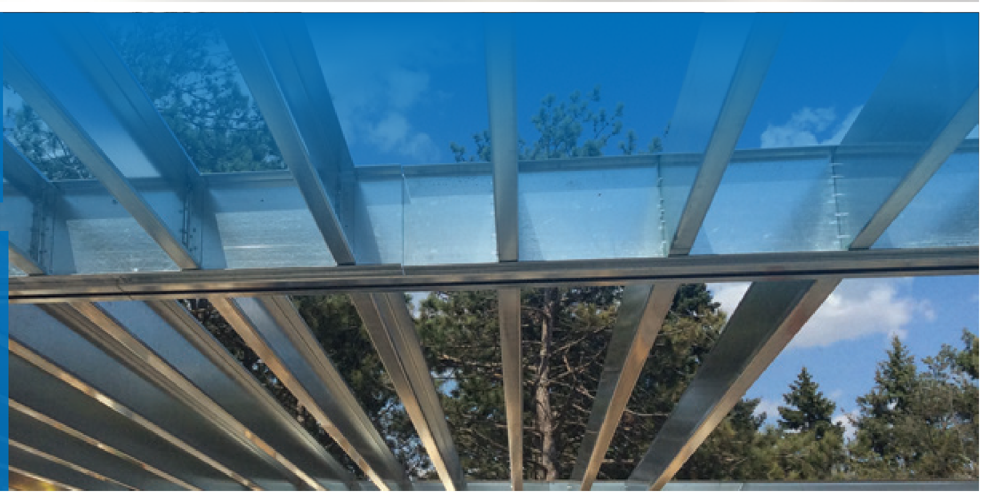
BAILEY®

BMAXX™ FRAMING SYSTEM

TAKING CFS WALLS TO NEW HEIGHTS WITH 118 MILS

- Increased limiting wall heights.
- Superior axial load capacity.
- Eliminates the need for stud/track built-up jambs and posts.
- Provides a more cost-effective solution for designing load bearing walls.

SUPER-SPAN™ HEADERS & JOISTS



STRONGER LONGER SMARTER

- Increased span and load capacities with 118 mils steel.
- Simplified floor system design by reducing or eliminating the need for built up joist sections.
- Streamlines jobsite installation when replacing heavy non-CFS structural components.
- Provides a lighter weight, more efficient header solution.

COLD FORMED STEEL 118 MILS -10 GAUGE LOAD TABLES

February 2024

Prepared for:
BAILEY METAL PRODUCTS LIMITED

Prepared by:
Dr. R.M. Schuster, P.Eng.
Distinguished Professor Emeritus, University of Waterloo

Copyright © February 2024
All rights reserved. This publication, nor any part thereof, may be reproduced in any form without the written permission of the publisher.

PREFACE:

The material presented has been prepared for the general information of the reader. While the material is believed to be technically correct and in accordance with recognized good practice at the time of publication it should not be used without first securing competent advice with respect to its suitability for any specific application. Neither Bailey Metal Products Limited nor Prof. Schuster warrant or assume any liability for the suitability of the material for any general or particular application.

TABLE OF CONTENTS

General Notes

Section Properties

Load Tables

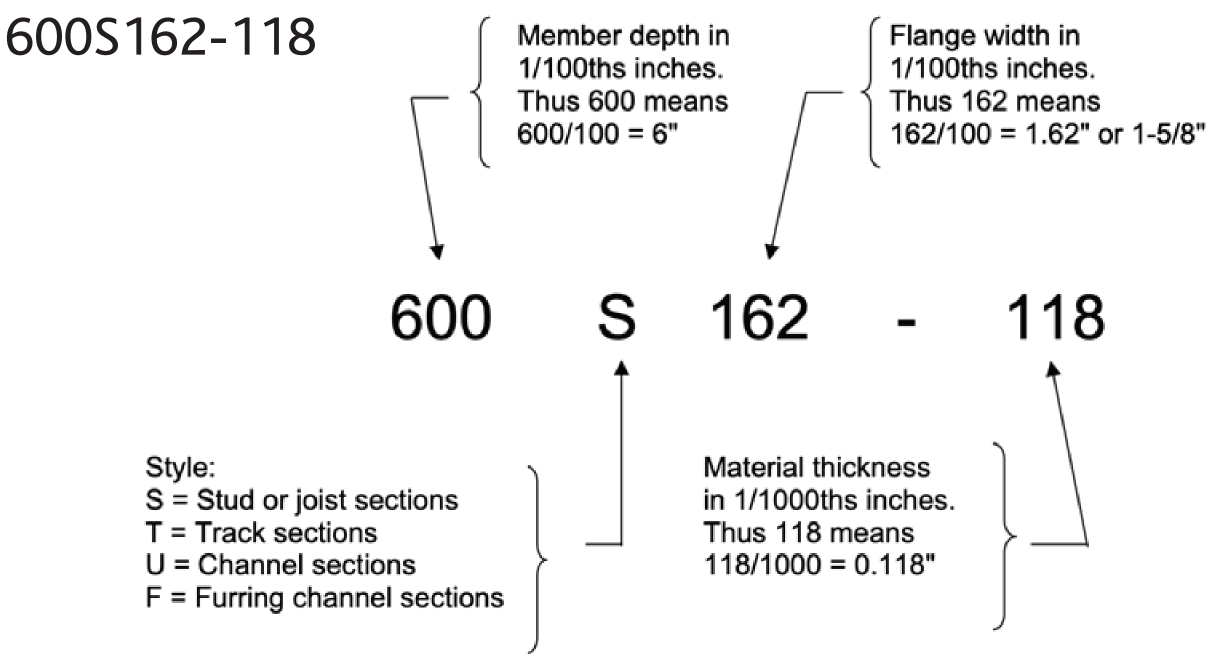
GENERAL NOTES

1. INTRODUCTION

The technical data in this publication is intended as an aid to the design professional and should not be used to replace the judgement of a qualified Engineer or design professional.

2. PRODUCT DESIGNATOR

Cold formed steel framing manufacturers use a common designator method for their products. The designator is a four part code which identifies depth, flange width, member type and material thickness. This designator (based on Imperial units) is used for both SI Metric and Imperial units.



3. SECTION GEOMETRIES

3.1 Section geometries are identified by the product designator method described in Section 2.

3.2 Stud, joist and track member members shall be cold formed to shape from sheet steel with a minimum base steel thickness and inside bend radius as follows:

Designation Thickness (Mils)	Base Steel Design Thickness (in.)	Minimum Base Steel Thickness (in.)	Inside Bend Radius, R (in.)
118	0.1242	0.118	0.1863

3.3 Stud and joist lip lengths are as shown:

Section	Flange Width, B (in.)	Lip Length, C (in.)
S162	1.625	0.500
S200	2.00	0.625
S250	2.50	0.625
S300	3.00	0.625
S350	3.50	1.00

GENERAL NOTES

4. SECTION PROPERTIES

4.1 Structural properties are based on Limit States Design (LSD) of the CSA Standard S136-16, North American Specification for the Design of Cold-Formed Steel Structural Members, including supplement CSA-S136-16S2-20.

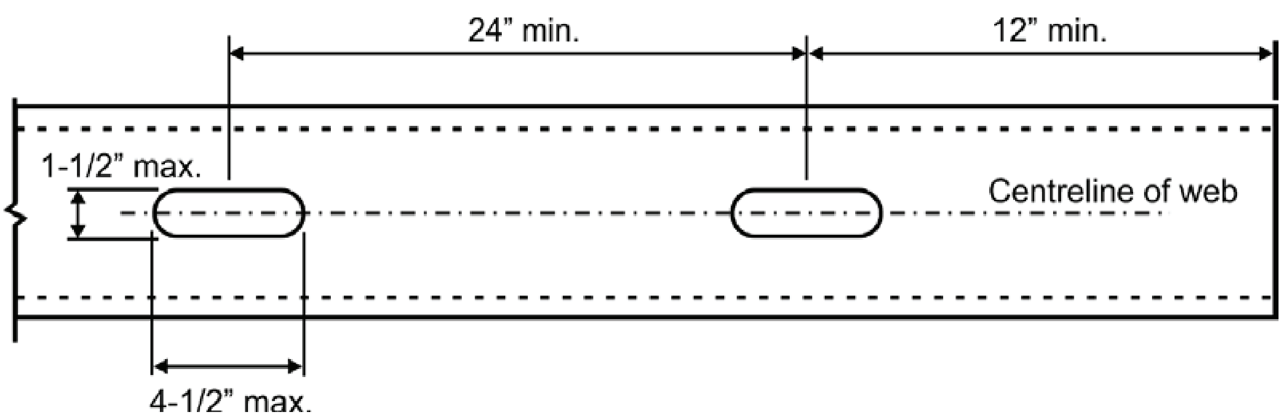
4.2 Steel shall conform to the requirements of S136-16, AISI S220-15 North American Standard for Cold-Form Steel Framing - Nonstructural Members. The minimum guaranteed yield stress, F_y = 50 ksi.

4.3 Section properties are computed for the base design thicknesses (exclusive of coating) shown in the tables.

4.4 When provided, factory punchouts shall be located along the centreline of the webs of the members and shall have a minimum centre-to-centre spacing of 24". Punchouts for members greater than 2.5" deep are a maximum of 1.5" wide by 4.5" in length. 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.

4.5 Increase in yield stress from cold work of forming has been included whenever applicable.

4.6 The effective moment of inertia for deflection, $I_{xd,}$ is based on local buckling at an assumed specified live load stress of $0.6F_y$. This moment of inertia is only appropriate for checking serviceability limit states.



GENERAL NOTES

5. SYMBOLS

GROSS PROPERTIES

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

EFFECTIVE PROPERTIES

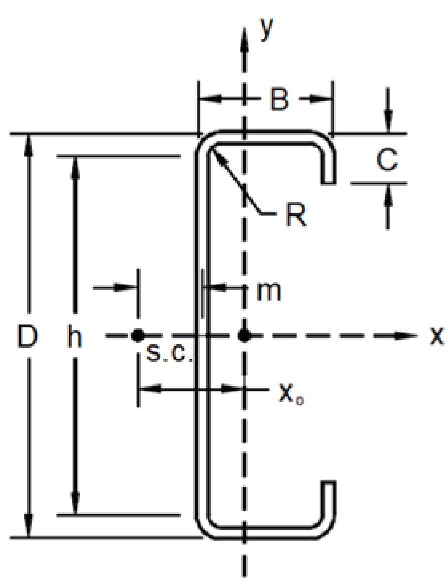
I_{xd}	Moment of inertia about x-axis for deflection calculations
S_{xe}	Section modulus about x-axis
M_{rxLB}	Factored moment resistance about x-axis based on local buckling
M_{rxDB}	Factored moment resistance about x-axis based on distortional buckling, assuming $K\phi = 0$
M_{ryLB}	Factored moment resistance about y-axis based on local buckling with web/lip in compression
M_{ryDB}	Factored moment resistance about y-axis based on distortional buckling with lip in compression
M_r	Factored moment resistance of track and channel sections based on local buckling
V_{rg}	Factored shear resistance along y-axis of unperforated section based on Section G2 of S136-16
V_{rn}	Factored shear resistance along y-axis of perforated section based on Section G3 of S136-16

TORSIONAL AND OTHER PROPERTIES

J	Saint-Venant torsion constant. The values shown in the table have been multiplied by 1,000 To obtain the actual values, divide table values by 1,000
C_w	Torsional warping constant
x_o	Distance from shear center to centroid along principle x-axis
m	Distance from shear center to mid-plane of web
r_o	Polar radius of gyration about shear center
β	$1 - (x_o/r_o)^2$
L_u	Limiting unbraced length below which lateral-torsional buckling is not considered
$K\phi$	Rotational stiffness
h	Flat depth of web

6. WEB DEPTH TO THICKNESS RATIOS, h/t

Designation Thickness (Mils)	118	
Base Design Thickness (in.)	0.1242	
Inside Bend Radius, R (in.)	0.1863	
Section Depth, D (in.)	h (in.)	h/t
3.625	3.00	24.2
4	3.38	27.2
6	5.38	43.4
8	7.38	59.4
10	9.38	75.5
12	11.4	91.6
14	13.4	108
16	15.4	124



STUD AND JOIST SECTION PROPERTIES

Table Notes

1. Inside bend radius value is shown in the General Notes.
2. Gross section properties are based on the full-unreduced cross section of the stud sections, away from the punchouts.
3. The factored moment resistance for design is based on the lesser of local and distortional buckling. Distortional buckling is based on an assumed rotational stiffness of $K_\phi = 0$

MEMBER DESIGNATION	LIP	BASE DESIGN THICKNESS	F_y	GROSS							PERFORATED EFFECTIVE								TORSIONAL						L_u
				Weight	Area	I_x	r_x	I_y	r_y	V_{rg}	I_{xd}	S_{xe}	M_{rxLB}	M_{rxDB}	V_{rn}	M_{ryLB} web comp.	M_{ryLB} lip comp.	M_{ryDB} lip comp.	Jx1000	C_w	x_o	m	r_o	β	
	(in.)	(in.)	(ksi)	(lbs/ft)	(in²)	(in⁴)	(in.)	(in⁴)	(in.)	(kip)	(in⁴)	(in³)	(k-in)	(k-in)	(kip)	(k-in)	(k-in)	(k-in)	(in⁴)	(in⁶)	(in.)	(in.)	(in.)		(in.)
362S162-118	0.500	0.1242	50	2.94	0.863	1.67	1.39	0.274	0.563	8.95	1.67	0.904	49.7*	49.7	1.00	10.3	10.3	11.2	4.44	0.827	1.20	0.731	1.92	0.611	31.1
362S200-118	0.625	0.1242	50	3.36	0.988	2.01	1.43	0.514	0.721	8.95	2.01	1.09	57.9*	58.0	1.00	16.6	16.6	18.1	5.08	1.66	1.63	0.971	2.28	0.490	40.1
362S250-118	0.625	0.1242	50	3.78	1.11	2.39	1.47	0.898	0.899	8.95	2.39	1.26	65.1*	67.1	1.00	23.6	23.6	25.8	5.72	2.85	2.10	1.22	2.71	0.402	49.1
362S300-118	0.625	0.1242	50	4.21	1.24	2.77	1.50	1.42	1.07	8.95	2.77	1.44	72.7*	66.1	1.00	31.6	31.6	34.6	6.35	4.44	2.57	1.48	3.16	0.339	57.7
362S350-118	1.00	0.1242	50	4.95	1.45	3.24	1.49	2.46	1.30	8.95	3.24	1.69	84.5*	79.3	1.00	51.1	51.1	55.8	7.47	10.6	3.36	1.91	3.90	0.258	76.1
400S162-118	0.500	0.1242	50	3.10	0.910	2.12	1.53	0.283	0.558	10.1	2.12	1.04	57.3*	57.3	1.41	10.6	10.6	11.4	4.68	1.02	1.15	0.711	1.99	0.665	30.6
400S200-118	0.625	0.1242	50	3.52	1.03	2.53	1.57	0.533	0.718	10.1	2.53	1.25	66.5*	66.5	1.41	17.0	17.0	18.3	5.32	2.02	1.58	0.948	2.34	0.544	39.5
400S250-118	0.625	0.1242	50	3.94	1.16	3.00	1.61	0.932	0.897	10.1	3.00	1.44	74.2*	66.7	1.41	24.3	24.3	26.2	5.96	3.47	2.04	1.20	2.75	0.450	48.5
400S300-118	0.625	0.1242	50	4.36	1.28	3.47	1.64	1.47	1.07	10.1	3.47	1.63	82.6*	74.2	1.41	32.5	32.5	35.2	6.59	5.40	2.51	1.45	3.18	0.380	57.0
400S350-118	1.00	0.1242	50	5.10	1.50	4.06	1.65	2.56	1.31	10.1	4.06	1.92	95.9*	90.0	1.41	52.5	52.5	56.7	7.71	12.4	3.29	1.88	3.90	0.290	74.6
600S162-118	0.500	0.1242	50	3.94	1.16	5.65	2.21	0.322	0.527	16.0	5.65	1.88	104*	103	4.64	11.6	11.6	11.9	5.96	2.49	0.971	0.623	2.47	0.846	29.0
600S200-118	0.625	0.1242	50	4.36	1.28	6.64	2.28	0.612	0.691	16.0	6.64	2.21	118*	117	4.64	18.5	18.6	19.2	6.59	4.75	1.35	0.845	2.74	0.756	37.6
600S250-118	0.625	0.1242	50	4.79	1.41	7.71	2.34	1.08	0.874	16.0	7.71	2.50	129*	113	4.64	26.4	26.7	27.7	7.23	8.14	1.78	1.09	3.07	0.665	46.6
600S300-118	0.625	0.1242	50	5.21	1.53	8.79	2.40	1.70	1.06	16.0	8.79	2.80	142*	120	4.64	35.4	35.8	37.3	7.87	12.7	2.21	1.33	3.43	0.583	55.3
600S350-118	1.00	0.1242	50	5.95	1.75	10.3	2.43	2.98	1.31	16.0	10.3	3.27	163*	146	4.64	56.5	57.7	60.1	8.99	25.8	2.95	1.74	4.04	0.466	70.5
800S162-118	0.500	0.1242	50	4.79	1.41	11.5	2.86	0.347	0.496	20.8	11.5	2.88	158*	158	9.10	11.8	12.0	12.2	7.23	4.77	0.842	0.556	3.02	0.922	28.0
800S200-118	0.625	0.1242	50	5.21	1.53	13.3	2.95	0.666	0.659	20.8	13.3	3.33	177*	149	9.10	18.9	19.4	19.8	7.87	8.98	1.19	0.764	3.25	0.866	36.4
800S250-118	0.625	0.1242	50	5.63	1.66	15.2	3.04	1.18	0.843	20.8	15.2	3.71	192*	161	9.10	27.0	28.0	28.6	8.51	15.4	1.58	0.994	3.52	0.799	45.6
800S300-118	0.625	0.1242	50	6.06	1.78	17.2	3.11	1.87	1.03	20.8	17.2	4.11	208*	169	9.10	36.2	37.7	38.7	9.15	24.0	1.99	1.23	3.83	0.730	54.4
800S350-118	1.00	0.1242	50	6.79	2.00	20.0	3.17	3.30	1.29	20.8	20.0	4.76	237*	205	9.10	57.5	60.8	62.3	10.3	46.1	2.68	1.62	4.35	0.619	68.8
1000S162-118	0.500	0.1242	50	5.63	1.66	20.2	3.49	0.364	0.469	20.8	20.2	4.03	182	172	12.2	11.9	12.3	12.4	8.51	7.92	0.746	0.502	3.60	0.957	29.9
1000S200-118	0.625	0.1242	50	6.06	1.78	23.1	3.60	0.704	0.629	20.8	23.1	4.61	207	196	12.2	19.0	19.9	20.1	9.15	14.8	1.06	0.699	3.81	0.922	38.6
1000S250-118	0.625	0.1242	50	6.48	1.90	26.1	3.70	1.25	0.810	20.8	26.1	5.08	263*	210	12.2	27.2	28.8	29.2	9.79	25.5	1.43	0.918	4.05	0.876	44.7
1000S300-118	0.625	0.1242	50	6.90	2.03	29.1	3.79	2.00	0.992	20.8	29.1	5.59	283*	219	12.2	36.5	38.9	39.6	10.4	39.7	1.81	1.14	4.32	0.824	53.7
1000S350-118	1.00	0.1242	50	7.64	2.25	33.8	3.88	3.54	1.26	20.8	33.8	6.43	320*	265	12.2	57.9	62.8	63.9	11.5	74.0	2.47	1.52	4.76	0.732	67.7
1200S162-118	0.500	0.1242	50	6.48	1.90	32.2	4.11	0.377	0.445	19.1	32.1	5.17	233	210	14.1	11.9	12.5	12.5	9.79	12.0	0.670	0.459	4.19	0.974	29.0
1200S200-118	0.625	0.1242	50	6.90	2.03	36.4	4.23	0.733	0.601	19.1	36.3	5.86	264	241	14.1	19.1	20.2	20.4	10.4	22.5	0.964	0.644	4.38	0.952	37.7
1200S250-118	0.625	0.1242	50	7.32	2.15	40.7	4.35	1.31	0.779	19.1	40.7	6.54	294	258	14.1	27.4	29.3	29.6	11.1	38.6	1.31	0.854	4.61	0.920	47.1
1200S300-118	0.625	0.1242	50	7.75	2.28	45.1	4.45	2.10	0.960	19.1	45.1	7.23	366*	270	14.1	36.7	39.8	40.2	11.7	60.3	1.67	1.07	4.85	0.882	53.0
1200S350-118	1.00	0.1242	50	8.49	2.49	52.0	4.57	3.74	1.23	19.1	52.0	8.26	412*	326	14.1	58.2	64.2	65.0	12.8	110	2.28	1.44	5.25	0.811	66.8
1400S162-118	0.500	0.1242	50	7.32	2.15	47.9	4.72	0.387	0.424	16.3	47.5	6.28	283	244	14.4	12.0	12.6	12.6	11.1	17.0	0.609	0.422	4.78	0.984	28.1
1400S200-118	0.625	0.1242	50	7.75	2.28	53.7	4.86	0.756	0.576	16.3	53.3	7.09	319	283	14.4	19.2	20.5	20.6	11.7	31.9	0.883	0.598	4.97	0.968	36.8
1400S250-118	0.625	0.1242	50	8.17	2.40	59.7	4.99	1.35	0.751	16.3	59.3	7.87	354	305	14.4	27.5	29.7	29.9	12.3	54.9	1.20	0.798	5.18	0.946	46.2
1400S300-118	0.625	0.1242	50	8.59	2.52	65.7	5.10	2.18	0.928	16.3	65.3	8.42	379	320	14.4	36.8	40.4	40.7	13.0	85.8	1.54	1.01	5.41	0.919	55.4
1400S350-118	1.00	0.1242	50	9.33	2.74	75.2	5.24	3.90	1.19	16.3	75.2	10.3	512*	387	14.4	58.4	65.2	65.9	14.1	155	2.13	1.36	5.78	0.864	66.0
1600S162-118	0.500	0.1242	50	8.17	2.40	68.0	5.32	0.394	0.405	14.2	66.0	7.40	333	275	14.2	12.0	12.7	12.7	12.3	23.0	0.559	0.391	5.37	0.989	27.3
1600S200-118	0.625	0.1242	50	8.59	2.52	75.6	5.47	0.774	0.554	14.2	73.6	8.33	375	320	14.2	19.2	20.6	20.7	13.0	43.1	0.815	0.558	5.56	0.979	35.9
1600S250-118	0.625	0.1242	50	9.01	2.65	83.5	5.61	1.39	0.724	14.2	81.5	9.22	415	348	14.2	27.5	30.0	30.2	13.6	74.5	1.12	0.750	5.77	0.963	45.3
1600S300-118	0.625	0.1242	50	9.44	2.77	91.3	5.74	2.24	0.899	14.2	89.3	9.83	442	368	14.2	36.9	40.9	41.1	14.3	117	1.44	0.951	5.98	0.942	54.6
1600S350-118	1.00	0.1242	50	10.2	2.99	104	5.90	4.04	1.16	14.2	102	11.3	508	445	14.2	58.5	66.0	66.5	15.4	210	2.00	1.29	6.33	0.900	68.7

*** Cold work of forming applies**

TRACK SECTION PROPERTIES

Table Notes

1. Track web depths are equal to the nominal stud depth plus two times the design thickness plus inside bend radius.
2. If present, hems are ignored.

			GROSS							EFFECTIVE			TORSIONAL						
TRACK DESIGNATION	BASE DESIGN THICKNESS (in.)	F_y (ksi)	Weight (lbs/ft)	Area (in^2)	I_x (in^4)	r_x (in.)	I_y (in^4)	r_y (in.)	V_{rg} (kip)	I_{xd} (in^4)	S_{xe} (in^3)	M_{rx} (k-in)	Jx1000 (in^4)	C_w (in^6)	x_o (in.)	m (in.)	r_o (in.)	β	L_u (in.)
362T125-118	0.1242	50	2.58	0.757	1.67	1.48	0.098	0.359	10.3	1.67	0.821	42.5	3.89	0.278	0.615	0.383	1.65	0.860	20.1
362T150-118	0.1242	50	2.79	0.820	1.91	1.53	0.165	0.449	10.3	1.91	0.940	47.6	4.21	0.462	0.808	0.494	1.78	0.795	24.5
362T200-118	0.1242	50	3.21	0.944	2.39	1.59	0.371	0.627	10.3	2.37	1.07	48.2	4.85	1.03	1.22	0.724	2.10	0.663	34.8
362T300-118	0.1242	50	4.06	1.19	3.35	1.68	1.13	0.975	10.3	2.96	1.21	54.2	6.13	3.15	2.10	1.20	2.86	0.460	51.2
400T125-118	0.1242	50	2.74	0.804	2.07	1.61	0.100	0.353	11.4	2.07	0.934	48.3	4.13	0.343	0.589	0.370	1.75	0.886	19.8
400T150-118	0.1242	50	2.95	0.866	2.36	1.65	0.170	0.442	11.4	2.36	1.06	53.9	4.45	0.572	0.777	0.479	1.88	0.829	24.3
400T200-118	0.1242	50	3.37	0.990	2.94	1.72	0.382	0.621	11.4	2.92	1.21	54.5	5.09	1.27	1.18	0.707	2.18	0.707	34.6
400T300-118	0.1242	50	4.22	1.24	4.09	1.82	1.17	0.972	11.4	3.63	1.36	61.2	6.37	3.88	2.05	1.18	2.90	0.503	51.1
600T125-118	0.1242	50	3.58	1.05	5.27	2.24	0.109	0.322	17.3	5.27	1.64	84.7	5.41	0.832	0.483	0.315	2.31	0.956	18.7
600T150-118	0.1242	50	3.79	1.11	5.89	2.30	0.187	0.409	17.3	5.89	1.83	92.7	5.73	1.39	0.647	0.415	2.42	0.929	23.2
600T200-118	0.1242	50	4.22	1.24	7.12	2.40	0.426	0.587	17.3	7.09	2.05	92.3	6.37	3.08	1.01	0.628	2.67	0.858	33.6
600T300-118	0.1242	50	5.06	1.49	9.60	2.54	1.33	0.944	17.3	8.61	2.29	103	7.65	9.36	1.80	1.08	3.26	0.693	50.7
800T125-118	0.1242	50	4.43	1.30	10.6	2.85	0.115	0.297	20.8	10.6	2.51	130	6.69	1.57	0.410	0.274	2.90	0.980	17.8
800T150-118	0.1242	50	4.64	1.36	11.6	2.92	0.198	0.381	20.8	11.6	2.76	140	7.01	2.63	0.555	0.366	3.00	0.966	22.3
800T200-118	0.1242	50	5.06	1.49	13.8	3.05	0.456	0.554	20.8	13.7	3.06	138	7.65	5.85	0.879	0.565	3.22	0.925	32.8
800T300-118	0.1242	50	5.91	1.74	18.1	3.23	1.44	0.910	20.8	16.4	3.39	153	8.92	17.8	1.62	0.998	3.72	0.811	50.3
1000T125-118	0.1242	50	5.27	1.55	18.5	3.45	0.119	0.277	20.8	18.5	3.53	159	7.97	2.56	0.357	0.243	3.48	0.990	18.2
1000T150-118	0.1242	50	5.48	1.61	20.1	3.53	0.205	0.357	20.8	20.1	3.85	173	8.28	4.31	0.488	0.328	3.59	0.982	22.8
1000T200-118	0.1242	50	5.91	1.74	23.4	3.67	0.477	0.524	20.8	23.3	4.21	189	8.92	9.65	0.783	0.514	3.79	0.957	31.9
1000T300-118	0.1242	50	6.75	1.98	30.0	3.89	1.52	0.875	20.8	27.4	4.67	210	10.2	29.4	1.47	0.927	4.25	0.881	49.7
1200T125-118	0.1242	50	6.12	1.80	29.5	4.05	0.122	0.260	18.4	29.5	4.49	202	9.24	3.81	0.316	0.218	4.07	0.994	17.5
1200T150-118	0.1242	50	6.33	1.86	31.8	4.14	0.211	0.336	18.4	31.8	4.86	219	9.56	6.44	0.435	0.296	4.17	0.989	22.0
1200T200-118	0.1242	50	6.75	1.98	36.5	4.29	0.493	0.498	18.4	36.4	5.28	237	10.2	14.5	0.706	0.471	4.38	0.974	31.1
1200T300-118	0.1242	50	7.60	2.23	45.9	4.54	1.58	0.842	18.4	42.3	5.69	256	11.5	44.4	1.35	0.865	4.81	0.922	49.0
1400T125-118	0.1242	50	6.96	2.05	44.1	4.64	0.124	0.246	15.8	43.4	5.45	245	10.5	5.33	0.284	0.197	4.66	0.996	16.8
1400T150-118	0.1242	50	7.17	2.11	47.2	4.73	0.215	0.319	15.8	46.6	5.88	265	10.8	9.05	0.393	0.270	4.76	0.993	21.2
1400T200-118	0.1242	50	7.60	2.23	53.6	4.90	0.505	0.476	15.8	52.7	6.35	286	11.5	20.5	0.644	0.434	4.97	0.983	30.2
1400T300-118	0.1242	50	8.44	2.48	66.3	5.17	1.64	0.812	15.8	60.3	6.81	307	12.8	63.0	1.24	0.811	5.38	0.947	48.3
1600T125-118	0.1242	50	7.81	2.29	62.8	5.23	0.125	0.234	13.8	60.2	6.42	289	11.8	7.13	0.257	0.181	5.24	0.998	16.2
1600T150-118	0.1242	50	8.02	2.36	66.9	5.33	0.218	0.304	13.8	64.4	6.91	311	12.1	12.1	0.358	0.249	5.35	0.996	20.5
1600T200-118	0.1242	50	8.44	2.48	75.1	5.50	0.515	0.455	13.8	72.4	7.43	334	12.8	27.6	0.592	0.403	5.55	0.989	29.5
1600T300-118	0.1242	50	9.29	2.73	91.7	5.80	1.68	0.784	13.8	81.9	7.93	357	14.0	85.2	1.16	0.763	5.96	0.962	47.5

CURTAIN WALL LIMITING HEIGHT TABLES – SINGLE AND DOUBLE SPAN

TABLE NOTES:

1. For wind load deflection calculations, the SLS importance factor, I_w = 0.75 is incorporated in the load tables.
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_u to develop the full factored moment resistance.
4. Web crippling check is based on 1.25" of bearing at end supports and 3" of bearing at interior supports.
5. Shear and web crippling resistance at end supports have not been reduced for punchouts. At interior supports, the shear and web crippling resistance 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 S136-16 (Eq. H2-1). Shear resistance and combined bending and shear checks at interior supports have been reduced for the presence of punchouts adjacent to the support.
7. In the "Double Span" tables, the listed span is the distance from either end to the centre of the interior support with the stud continuous past the interior support.

CURTAIN WALL LIMITING HEIGHT TABLE (ft-in.) - SINGLE SPAN

5-30 psf

SPECIFIED LOADS			5 psf			10 psf			15 psf			20 psf			25 psf			30 psf		
STUD MEMBER	F_y (ksi)	SPACING (in.) o.c.	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600
	50	12	38' 9"	30' 9"	26' 10"	24' 4"	21' 3"	18' 0"	21' 3"	18' 8"	15' 8"	19' 4"	16' 10"	14' 3"	18' 0"	15' 8"	13' 3"	16' 10"	14' 9"	12' 6"
362S162-118	50	16	35' 2"	28' 0"	24' 4"	22' 2"	19' 4"	16' 4"	19' 4"	16' 10"	14' 3"	17' 7"	15' 4"	13' 0"	16' 4"	14' 3"	12' 1"	15' 4"	13' 4"	11' 3"
	50	24	30' 9"	24' 4"	21' 3"	19' 4"	16' 10"	14' 3"	16' 10"	14' 9"	12' 6"	15' 4"	13' 4"	11' 3"	14' 3"	12' 6"	10' 6"	13' 4"	11' 8"	9' 10"
	50	12	41' 2"	32' 8"	28' 7"	26' 0"	22' 8"	19' 1"	22' 8"	19' 9"	16' 8"	20' 7"	18' 0"	15' 2"	19' 1"	16' 8"	14' 1"	18' 0"	15' 8"	13' 3"
362S200-118	50	16	37' 6"	29' 8"	26' 0"	23' 7"	20' 7"	17' 4"	20' 7"	18' 0"	15' 2"	18' 8"	16' 4"	13' 9"	17' 4"	15' 2"	12' 9"	16' 4"	14' 3"	12' 1"
	50	24	32' 8"	26' 0"	22' 8"	20' 7"	18' 0"	15' 2"	18' 0"	15' 8"	13' 3"	16' 4"	14' 3"	12' 1"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"
	50	12	43' 8"	34' 8"	30' 3"	27' 6"	24' 0"	20' 3"	24' 0"	21' 0"	17' 8"	21' 9"	19' 1"	16' 1"	20' 3"	17' 8"	14' 10"	19' 1"	16' 8"	14' 1"
362S250-118	50	16	39' 8"	31' 6"	27' 6"	25' 0"	21' 9"	18' 4"	21' 9"	19' 1"	16' 1"	19' 9"	17' 3"	14' 7"	18' 4"	16' 1"	13' 7"	17' 3"	15' 1"	12' 9"
	50	24	34' 8"	27' 6"	24' 0"	21' 9"	19' 1"	16' 1"	19' 1"	16' 8"	14' 1"	17' 3"	15' 1"	12' 9"	16' 1"	14' 1"	11' 10"	15' 1"	13' 2"	11' 2"
	50	12	45' 10"	36' 4"	31' 9"	28' 10"	25' 3"	21' 3"	25' 3"	22' 1"	18' 7"	22' 10"	20' 0"	16' 10"	21' 3"	18' 7"	15' 8"	20' 0"	17' 6"	14' 9"
362S300-118	50	16	41' 8"	33' 1"	28' 10"	26' 3"	22' 10"	19' 3"	22' 10"	20' 0"	16' 10"	20' 9"	18' 2"	15' 4"	19' 3"	16' 10"	14' 3"	18' 2"	15' 10"	13' 4"
	50	24	36' 4"	28' 10"	25' 3"	22' 10"	20' 0"	16' 10"	20' 0"	17' 6"	14' 9"	18' 2"	15' 10"	13' 4"	16' 10"	14' 9"	12' 6"	15' 10"	13' 10"	11' 8"
	50	12	48' 4"	38' 4"	33' 6"	30' 6"	26' 7"	22' 6"	26' 7"	23' 3"	19' 7"	24' 2"	21' 1"	17' 9"	22' 6"	19' 7"	16' 6"	21' 1"	18' 6"	15' 7"
362S350-118	50	16	43' 10"	34' 10"	30' 6"	27' 8"	24' 2"	20' 4"	24' 2"	21' 1"	17' 9"	22' 0"	19' 2"	16' 2"	20' 4"	17' 9"	15' 0"	19' 2"	16' 9"	14' 1"
	50	24	38' 4"	30' 6"	26' 7"	24' 2"	21' 1"	17' 9"	21' 1"	18' 6"	15' 7"	19' 2"	16' 9"	14' 1"	17' 9"	15' 7"	13' 1"	16' 9"	14' 7"	12' 4"
	50	12	42' 0"	33' 3"	29' 1"	26' 4"	23' 1"	19' 6"	23' 1"	20' 2"	17' 0"	21' 0"	18' 3"	15' 6"	19' 6"	17' 0"	14' 4"	18' 3"	16' 0"	13' 6"
400S162-118	50	16	38' 1"	30' 3"	26' 4"	24' 0"	21' 0"	17' 8"	21' 0"	18' 3"	15' 6"	19' 1"	16' 8"	14' 0"	17' 8"	15' 6"	13' 0"	16' 8"	14' 6"	12' 3"
	50	24	33' 3"	26' 4"	23' 1"	21' 0"	18' 3"	15' 6"	18' 3"	16' 0"	13' 6"	16' 8"	14' 6"	12' 3"	15' 6"	13' 6"	11' 4"	14' 6"	12' 8"	10' 8"
	50	12	44' 6"	35' 4"	30' 10"	28' 1"	24' 6"	20' 8"	24' 6"	21' 4"	18' 1"	22' 3"	19' 6"	16' 4"	20' 8"	18' 1"	15' 2"	19' 6"	17' 0"	14' 3"
400S200-118	50	16	40' 6"	32' 1"	28' 1"	25' 6"	22' 3"	18' 9"	22' 3"	19' 6"	16' 4"	20' 2"	17' 8"	14' 10"	18' 9"	16' 4"	13' 9"	17' 8"	15' 4"	13' 0"
	50	24	35' 4"	28' 1"	24' 6"	22' 3"	19' 6"	16' 4"	19' 6"	17' 0"	14' 3"	17' 8"	15' 4"	13' 0"	16' 4"	14' 3"	12' 1"	15' 4"	13' 6"	11' 4"
	50	12	47' 1"	37' 4"	32' 8"	29' 8"	25' 10"	21' 10"	25' 10"	22' 8"	19' 1"	23' 7"	20' 7"	17' 4"	21' 10"	19' 1"	16' 1"	20' 7"	18' 0"	15' 2"
400S250-118	50	16	42' 9"	34' 0"	29' 8"	27' 0"	23' 7"	19' 10"	23' 7"	20' 7"	17' 4"	21' 4"	18' 8"	15' 9"	19' 10"	17' 4"	14' 7"	18' 8"	16' 3"	13' 9"
	50	24	37' 4"	29' 8"	25' 10"	23' 7"	20' 7"	17' 4"	20' 7"	18' 0"	15' 2"	18' 8"	16' 3"	13' 9"	17' 4"	15' 2"	12' 9"	16' 3"	14' 3"	12' 0"
	50	12	49' 4"	39' 2"	34' 3"	31' 2"	27' 2"	23' 0"	27' 2"	23' 9"	20' 1"	24' 8"	21' 7"	18' 2"	23' 0"	20' 1"	16' 10"	21' 7"	18' 10"	15' 10"
400S300-118	50	16	44' 10"	35' 8"	31' 2"	28' 3"	24' 8"	20' 10"	24' 8"	21' 7"	18' 2"	22' 6"	19' 7"	16' 7"	20' 10"	18' 2"	15' 4"	19' 7"	17' 1"	14' 6"
	50	24	39' 2"	31' 2"	27' 2"	24' 8"	21' 7"	18' 2"	21' 7"	18' 10"	15' 10"	19' 7"	17' 1"	14' 6"	18' 2"	15' 10"	13' 4"	17' 1"	15' 0"	12' 7"
	50	12	52' 1"	41' 4"	36' 2"	32' 10"	28' 8"	24' 2"	28' 8"	25' 1"	21' 1"	26' 1"	22' 9"	19' 2"	24' 2"	21' 1"	17' 9"	22' 9"	19' 10"	16' 9"
400S350-118	50	16	47' 4"	37' 7"	32' 10"	29' 9"	26' 1"	22' 0"	26' 1"	22' 9"	19' 2"	23' 8"	20' 8"	17' 6"	22' 0"	19' 2"	16' 2"	20' 8"	18' 1"	15' 2"
	50	24	41' 4"	32' 10"	28' 8"	26' 1"	22' 9"	19' 2"	22' 9"	19' 10"	16' 9"	20' 8"	18' 1"	15' 2"	19' 2"	16' 9"	14' 2"	18' 1"	15' 9"	13' 3"
	50	12	58' 2"	46' 2"	40' 4"	36' 8"	32' 0"	27' 0"	32' 0"	28' 0"	23' 7"	29' 1"	25' 4"	21' 4"	27' 0"	23' 7"	19' 10"	25' 4"	22' 2"	18' 8"
600S162-118	50	16	52' 10"	42' 0"	36' 8"	33' 3"	29' 1"	24' 6"	29' 1"	25' 4"	21' 4"	26' 4"	23' 1"	19' 6"	24' 6"	21' 4"	18' 1"	23' 1"	20' 2"	17' 0"
	50	24	46' 2"	36' 8"	32' 0"	29' 1"	25' 4"	21' 4"	25' 4"	22' 2"	18' 8"	23' 1"	20' 2"	17' 0"	21' 4"	18' 8"	15' 9"	20' 2"	17' 7"	14' 10"
	50	12	61' 4"	48' 9"	42' 7"	38' 8"	33' 9"	28' 6"	33' 9"	29' 6"	24' 10"	30' 8"	26' 9"	22' 7"	28' 6"	24' 10"	21' 0"	26' 9"	23' 4"	19' 9"
600S200-118	50	16	55' 9"	44' 3"	38' 8"	35' 2"	30' 8"	25' 10"	30' 8"	26' 9"	22' 7"	27' 10"	24' 4"	20' 7"	25' 10"	22' 7"	19' 1"	24' 4"	21' 3"	18' 0"
	50	24	48' 9"	38' 8"	33' 9"	30' 8"	26' 9"	22' 7"	26' 9"	23' 4"	19' 9"	24' 4"	21' 3"	18' 0"	22' 7"	19' 9"	16' 8"	21' 3"	18' 7"	15' 8"
	50	12	64' 7"	51' 2"	44' 9"	40' 8"	35' 6"	30' 0"	35' 6"	31' 0"	26' 2"	32' 3"	28' 2"	23' 9"	30' 0"	26' 2"	22' 1"	28' 2"	24' 7"	20' 9"
600S250-118	50	16	58' 8"	46' 7"	40' 8"	37' 0"	32' 3"	27' 2"	32' 3"	28' 2"	23' 9"	29' 3"	25' 7"	21' 7"	27' 2"	23' 9"	20' 1"	25' 7"	22' 4"	18' 10"
	50	24	51' 2"	40' 8"	35' 6"	32' 3"	28' 2"	23' 9"	28' 2"	24' 7"	20' 9"	25' 7"	22' 4"	18' 10"	23' 9"	20' 9"	17' 6"	22' 4"	19' 7"	16' 6"
	50	12	67' 4"	53' 6"	46' 9"	42' 6"	37' 1"	31' 3"	37' 1"	32' 4"	27' 3"	33' 8"	29' 6"	24' 9"	31' 3"	27' 3"	23' 1"	29' 6"	25' 8"	21' 8"
600S300-118	50	16	61' 3"	48' 7"	42' 6"	38' 7"	33' 8"	28' 4"	33' 8"	29' 6"	24' 9"	30' 7"	26' 9"	22' 7"	28' 4"	24' 9"	21' 0"	26' 9"	23' 4"	19' 8"
	50	24	53' 6"	42' 6"	37' 1"	33' 8"	29' 6"	24' 9"	29' 6"	25' 8"	21' 8"	26' 9"	23' 4"	19' 8"	24' 9"	21' 8"	18' 3"	23' 4"	20' 4"	17' 2"
	50	12	71' 1"	56' 4"	49' 3"	44' 9"	39' 1"	33' 0"	39' 1"	34' 2"	28' 9"	35' 7"	31' 1"	26' 2"	33' 0"	28' 9"	24' 3"	31' 1"	27' 1"	22' 10"
600S350-118	50	16	64' 7"	51' 3"	44' 9"	40' 8"	35' 7"	30' 0"	35' 7"	31' 1"	26' 2"	32' 3"	28' 2"	23' 9"	30' 0"	26' 2"	22' 1"	28' 2"	24' 8"	20' 9"
	50	24	56' 4"	44' 9"	39' 1"	35' 7"	31' 1"	26' 2"	31' 1"	27' 1"	22' 10"	28' 2"	24' 8"	20' 9"	26' 2"	22' 10"	19' 3"	24' 8"	21' 6"	18' 2"
	50	12	73' 9"	58' 6"	51' 1"	46' 6"	40' 7"	34' 2"	40' 7"	35' 6"	29' 10"	35' 8"	31' 2"	26' 3"	34' 2"	29' 10"	25' 2"	32' 2"	28' 1"	23' 8"
800S162-118	50	16	67' 0"	53' 2"	46' 6"	42' 2"	36' 10"	31' 1"	36' 10"	32' 2"	27' 2"	32' 6"	28' 4"	23' 10"	31' 1"	27' 2"	22' 10"	29' 3"	25' 7"	21' 7"
	50	24	58' 6"	46' 6"	40' 7"	36' 10"	32' 2"	27' 2"	32' 2"	28' 1"	23' 8"	28' 4"	24' 9"	20' 10"	27' 2"	23' 8"	20' 0"	25' 7"	22' 3"	18' 9"
	50	12	77' 6"	61' 6"	53' 8"	48' 9"	42' 7"	36' 0"	42' 7"	37' 2"	31' 4"	38' 8"	33' 9"	28' 6"	36' 0"	31' 4"	26' 6"	33' 9"	29' 7"	24' 10"
800S200-118	50	16	70' 4"	55' 10"	48' 9"	44' 3"	38' 8"	32' 8"	38' 8"	33' 9"	28' 6"	35' 2"	30' 8"	25' 10"	32' 8"	28' 6"	24' 1"	30' 8"	26' 10"	22' 7"
	50	24	61' 6"	48' 9"	42' 7"	38' 8"	33' 9"	28' 6"	33' 9"	29' 7"	24' 10"	30' 8"	26' 10"	22' 7"	28' 6"	24' 10"	21' 0"	26' 10"	23' 6"	19' 9"
	50	12	81' 0"	64' 3"	56' 2"	51' 0"	44' 7"	37' 7"	44' 7"	39' 0"	32' 10"	40' 6"	35' 4"	29' 9"	37' 7"	32' 10"	27' 8"	35' 4"	30' 10"	26' 1"
800S250-118	50	16	73' 7"	58' 4"	51' 0"	46' 4"	40' 6"	34' 2"	40' 6"	35' 4"	29' 9"	36' 9"	32' 2"	27' 1"	34' 2"	29' 9"	25' 2"	32' 2"	28' 1"	23' 8"
	50	24	64' 3"	51' 0"	44' 7"	40' 6"	35' 4"	29' 9"	35' 4"	30' 10"	26' 1"	32' 2"	28' 1"	23' 8"	29' 9"	26' 1"	22' 0"	28' 1"	24' 6"	20' 8"
	50	12	84' 3"	66' 10"	58' 4"	53' 1"	46' 4"	39' 1"	46' 4"	40' 6"	34' 2"	42' 1"	36' 9"	31' 1"	39' 1"	34.2	28' 9"	36' 9"	32' 2"	27' 1"
800S300-118	50	16	76' 7"	60' 9"	53' 1"	48' 2"	42' 1"	35' 7"	42' 1"	36' 9"	31' 1"	38' 3"	33' 6"	28' 2"	35' 7"	31' 1"	26' 2"	33' 6"	29' 2"	24' 7"
	50	24	66' 10"	53' 1"	46' 4"	42' 1"	36' 9"	31' 1"	36' 9"	32' 2"	27' 1"	33' 6"	29' 2"	24' 7"	31' 1"	27' 1"	22' 10"	29' 2"	25' 6"	21' 6"
	50	12	88' 9"	70' 6"	61' 6"	55' 10"	48' 9"	41' 2"	48' 9"	42' 8"	36' 0"	44' 4"	38' 9"	32' 8"	41' 2"	36' 0"	30' 4"	38' 9"	33' 10"	28' 7"
800S350-118	50	16	80' 7"	64' 0"	55' 10"	50' 9"	44' 4"	37' 4"	44' 4"	38' 9"	32' 8"	40' 3"	35' 2"	29' 8"	37' 4"	32' 8"	27' 7"	35' 2"	30' 9"	26' 0"
	50	24	70' 6"	55' 10"	48' 9"	44' 4"	38' 9"	32' 8"	38' 9"	33' 10"	28' 7"	35' 2"	30' 9"	26' 0"	32' 8"	28' 7"	24' 1"	30' 9"	26' 10"	22' 8"

NOTES:

1) $p = I_W \{qC_eC_gC_p\}$; I_W of 0.75 has been incorporated in the deflection values of the table.
The parameters in the bracket { } must be determined by the design professional in accordance with the NBCC.

2) "e" web stiffeners required at ends.

CURTAIN WALL LIMITING HEIGHT TABLE (ft-in.) - SINGLE SPAN 35-60 psf

SPECIFIED LOADS			35 psf			40 psf			45 psf			50 psf			55 psf			60 psf		
STUD MEMBER	F_y (ksi)	SPACING (in.) o.c.	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
362S162-118	50	12	16' 1"	14' 1"	11' 10"	15' 4"	13' 4"	11' 3"	14' 9"	12' 10"	10' 10"	14' 3"	12' 6"	10' 6"	13' 9"	12' 1"	10' 2"	13' 4"	11' 8"	9' 10"
	50	16	14' 7"	12' 9"	10' 9"	14' 0"	12' 2"	10' 3"	13' 4"	11' 8"	9' 10"	13' 0"	11' 3"	9' 7"	12' 7"	11' 0"	9' 3"	12' 2"	10' 8"	9' 0"
	50	24	12' 9"	11' 2"	9' 4"	12' 2"	10' 8"	9' 0"	11' 8"	10' 3"	8' 8"	11' 3"	9' 10"	8' 4"	11' 0"	9' 7"	8' 1"	10' 8"	9' 3"	7' 10"
362S200-118	50	12	17' 1"	14' 10"	12' 7"	16' 4"	14' 3"	12' 1"	15' 8"	13' 8"	11' 7"	15' 2"	13' 3"	11' 2"	14' 8"	12' 10"	10' 9"	14' 3"	12' 6"	10' 6"
	50	16	15' 6"	13' 7"	11' 4"	14' 10"	13' 0"	11' 0"	14' 3"	12' 6"	10' 6"	13' 9"	12' 1"	10' 2"	13' 4"	11' 8"	9' 9"	13' 0"	11' 3"	9' 7"
	50	24	13' 7"	11' 10"	10' 0"	13' 0"	11' 3"	9' 7"	12' 6"	10' 10"	9' 2"	12' 1"	10' 6"	8' 10"	11' 8"	10' 2"	8' 7"	11' 3"	9' 10"	8' 4"
362S250-118	50	12	18' 1"	15' 9"	13' 4"	17' 3"	15' 1"	12' 9"	16' 8"	14' 7"	12' 3"	16' 1"	14' 1"	11' 10"	15' 7"	13' 7"	11' 6"	15' 1"	13' 2"	11' 2"
	50	16	16' 6"	14' 4"	12' 1"	15' 8"	13' 9"	11' 7"	15' 1"	13' 2"	11' 2"	14' 7"	12' 9"	10' 9"	14' 2"	12' 4"	10' 4"	13' 9"	12' 0"	10' 1"
	50	24	14' 4"	12' 7"	10' 7"	13' 9"	12' 0"	10' 1"	13' 2"	11' 7"	9' 8"	12' 9"	11' 2"	9' 4"	12' 4"	10' 9"	9' 1"	12' 0"	10' 6"	8' 10"
362S300-118	50	12	19' 0"	16' 7"	14' 0"	18' 2"	15' 10"	13' 4"	17' 6"	15' 3"	12' 10"	16' 10"	14' 9"	12' 6"	16' 4"	14' 3"	12' 1"	15' 10"	13' 10"	11' 8"
	50	16	17' 3"	15' 1"	12' 8"	16' 6"	14' 6"	12' 2"	15' 10"	13' 10"	11' 8"	15' 4"	13' 4"	11' 3"	14' 10"	13' 0"	11' 0"	14' 6"	12' 7"	10' 7"
	50	24	15' 1"	13' 2"	11' 1"	14' 6"	12' 7"	10' 7"	13' 10"	12' 1"	10' 2"	13' 4"	11' 8"	9' 10"	13' 0"	11' 4"	9' 7"	12' 7"	11' 0"	9' 3"
362S350-118	50	12	20' 1"	17' 6"	14' 9"	19' 2"	16' 9"	14' 1"	18' 6"	16' 1"	13' 7"	17' 9"	15' 7"	13' 1"	17' 3"	15' 1"	12' 8"	16' 9"	14' 7"	12' 4"
	50	16	18' 2"	15' 10"	13' 4"	17' 4"	15' 2"	12' 10"	16' 9"	14' 7"	12' 4"	16' 2"	14' 1"	11' 10"	15' 8"	13' 8"	11' 7"	15' 2"	13' 3"	11' 2"
	50	24	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	14' 7"	12' 9"	10' 9"	14' 1"	12' 4"	10' 4"	13' 8"	12' 0"	10' 1"	13' 3"	11' 7"	9' 9"
400S162-118	50	12	17' 4"	15' 2"	12' 9"	16' 8"	14' 6"	12' 3"	16' 0"	14' 0"	11' 9"	15' 6"	13' 6"	11' 4"	15' 0"	13' 1"	11' 0"	14' 6"	12' 8"	10' 8"
	50	16	15' 9"	13' 9"	11' 8"	15' 1"	13' 2"	11' 1"	14' 6"	12' 8"	10' 8"	14' 0"	12' 3"	10' 4"	13' 7"	11' 10"	10' 0"	13' 2"	11' 6"	9' 8"
	50	24	13' 9"	12' 1"	10' 2"	13' 2"	11' 6"	9' 8"	12' 8"	11' 1"	9' 4"	12' 3"	10' 8"	9' 0"	11' 10"	10' 4"	8' 9"	11' 6"	10' 1"	8' 6"
400S200-118	50	12	18' 6"	16' 1"	13' 7"	17' 8"	15' 4"	13' 0"	17' 0"	14' 9"	12' 6"	16' 4"	14' 3"	12' 1"	15' 10"	13' 10"	11' 8"	15' 4"	13' 6"	11' 4"
	50	16	16' 9"	14' 8"	12' 4"	16' 1"	14' 0"	11' 9"	15' 4"	13' 6"	11' 4"	14' 10"	13' 0"	11' 0"	14' 4"	12' 7"	10' 7"	14' 0"	12' 3"	10' 3"
	50	24	14' 8"	12' 9"	10' 9"	14' 0"	12' 3"	10' 3"	13' 6"	11' 9"	9' 10"	13' 0"	11' 4"	9' 7"	12' 7"	11' 0"	9' 3"	12' 3"	10' 8"	9' 0"
400S250-118	50	12	19' 7"	17' 1"	14' 4"	18' 8"	16' 3"	13' 9"	18' 0"	15' 8"	13' 2"	17' 4"	15' 2"	12' 9"	16' 9"	14' 8"	12' 4"	16' 3"	14' 3"	12' 0"
	50	16	17' 9"	15' 6"	13' 1"	17' 0"	14' 9"	12' 6"	16' 3"	14' 3"	12' 0"	15' 9"	13' 9"	11' 7"	15' 3"	13' 3"	11' 3"	14' 9"	13' 0"	10' 10"
	50	24	15' 6"	13' 7"	11' 4"	14' 9"	13' 0"	10' 10"	14' 3"	12' 6"	10' 6"	13' 9"	12' 0"	10' 2"	13' 3"	11' 8"	9' 9"	13' 0"	11' 3"	9' 7"
400S300-118	50	12	20' 6"	17' 10"	15' 1"	19' 7"	17' 1"	14' 6"	18' 10"	16' 6"	13' 10"	18' 2"	15' 10"	13' 4"	17' 7"	15' 4"	13' 0"	17' 1"	15' 0"	12' 7"
	50	16	18' 7"	16' 3"	13' 8"	17' 9"	15' 7"	13' 1"	17' 1"	15' 0"	12' 7"	16' 7"	14' 6"	12' 2"	16' 0"	14' 0"	11' 9"	15' 7"	13' 7"	11' 6"
	50	24	16' 3"	14' 2"	12' 0"	15' 7"	13' 7"	11' 6"	15' 0"	13' 1"	11' 0"	14' 6"	12' 7"	10' 8"	14' 0"	12' 2"	10' 3"	13' 7"	11' 10"	10' 0"
400S350-118	50	12	21' 7"	18' 10"	15' 10"	20' 8"	18' 1"	15' 2"	19' 10"	17' 4"	14' 8"	19' 2"	16' 9"	14' 2"	18' 7"	16' 3"	13' 8"	18' 1"	15' 9"	13' 3"
	50	16	19' 8"	17' 2"	14' 6"	18' 9"	16' 4"	13' 10"	18' 1"	15' 9"	13' 3"	17' 6"	15' 2"	12' 10"	16' 10"	14' 9"	12' 6"	16' 4"	14' 3"	12' 1"
	50	24	17' 2"	15' 0"	12' 8"	16' 4"	14' 3"	12' 1"	15' 9"	13' 9"	11' 7"	15' 2"	13' 3"	11' 2"	14' 9"	12' 10"	10' 10"	14' 3"	12' 6"	10' 7"
600S162-118	50	12	24' 2"	21' 1"	17' 9"	23' 1"	20' 2"	17' 0"	22' 2"	19' 4"	16' 4"	21' 4"	18' 8"	15' 9"	20' 9"	18' 1"	15' 3"	20' 2"	17' 7"	14' 10"
	50	16	21' 10"	19' 2"	16' 2"	21' 0"	18' 3"	15' 6"	20' 2"	17' 7"	14' 10"	19' 6"	17' 0"	14' 4"	18' 10"	16' 6"	13' 10"	18' 3"	16' 0"	13' 6"
	50	24	19' 2"	16' 8"	14' 1"	18' 3"	16' 0"	13' 6"	17' 7"	15' 4"	13' 0"	17' 0"	14' 10"	12' 6"	16' 6"	14' 4"	12' 1"	16' 0"	14' 0"	11' 9"
600S200-118	50	12	25' 6"	22' 3"	18' 9"	24' 4"	21' 3"	18' 0"	23' 4"	20' 6"	17' 3"	22' 7"	19' 9"	16' 8"	21' 10"	19' 1"	16' 2"	21' 3"	18' 7"	15' 8"
	50	16	23' 2"	20' 2"	17' 1"	22' 1"	19' 3"	16' 3"	21' 3"	18' 7"	15' 8"	20' 7"	18' 0"	15' 1"	19' 10"	17' 4"	14' 8"	19' 3"	16' 10"	14' 3"
	50	24	20' 2"	17' 8"	14' 10"	19' 3"	16' 10"	14' 3"	18' 7"	16' 3"	13' 8"	18' 0"	15' 8"	13' 2"	17' 4"	15' 2"	12' 9"	16' 10"	14' 9"	12' 6"
600S250-118	50	12	26' 9"	23' 4"	19' 8"	25' 7"	22' 4"	18' 10"	24' 7"	21' 6"	18' 2"	23' 9"	20' 9"	17' 6"	23' 0"	20' 1"	17' 0"	22' 4"	19' 7"	16' 6"
	50	16	24' 3"	21' 3"	17' 10"	23' 3"	20' 3"	17' 2"	22' 4"	19' 7"	16' 6"	21' 7"	18' 10"	15' 10"	20' 10"	18' 3"	15' 4"	20' 3"	17' 9"	15' 0"
	50	24	21' 3"	18' 7"	15' 8"	20' 3"	17' 9"	15' 0"	19' 7"	17' 1"	14' 4"	18' 10"	16' 6"	13' 10"	18' 3"	16' 0"	13' 6"	17' 9"	15' 6"	13' 1"
600S300-118	50	12	28' 0"	24' 4"	20' 7"	26' 9"	23' 4"	19' 8"	25' 8"	22' 6"	19' 0"	24' 9"	21' 8"	18' 3"	24' 1"	21' 0"	17' 8"	23' 4"	20' 4"	17' 2"
	50	16	25' 4"	22' 2"	18' 8"	24' 3"	21' 2"	17' 10"	23' 4"	20' 4"	17' 2"	22' 7"	19' 8"	16' 7"	21' 10"	19' 1"	16' 1"	21' 2"	18' 7"	15' 7"
	50	24	22' 2"	19' 4"	16' 4"	21' 2"	18' 7"	15' 7"	20' 4"	17' 9"	15' 0"	19' 8"	17' 2"	14' 6"	19' 1"	16' 8"	14' 1"	18' 7"	16' 2"	13' 8"
600S350-118	50	12	29' 6"	25' 9"	21' 8"	28' 2"	24' 8"	20' 9"	27' 1"	23' 8"	20' 0"	26' 2"	22' 10"	19' 3"	25' 4"	22' 2"	18' 8"	24' 8"	21' 6"	18' 2"
	50	16	26' 9"	23' 4"	19' 9"	25' 7"	22' 4"	18' 10"	24' 8"	21' 6"	18' 2"	23' 9"	20' 9"	17' 6"	23' 1"	20' 1"	17' 0"	22' 4"	19' 7"	16' 6"
	50	24	23' 4"	20' 6"	17' 3"	22' 4"	19' 7"	16' 6"	21' 6"	18' 9"	15' 10"	20' 9"	18' 2"	15' 3"	20' 1"	17' 7"	14' 9"	19' 7"	17' 1"	14' 4"
800S162-118	50	12	30' 7"	26' 8"	22' 7"	29' 3"	25' 7"	21' 7"	28' 1"	24' 7"	20' 8"	27' 2"	23' 8"	20' 0"	26' 3"	23' 0"	19' 4"	25' 7"	22' 3"	18' 9"
	50	16	27' 9"	24' 3"	20' 6"	26' 7"	23' 2"	19' 7"	25' 7"	22' 3"	18' 9"	24' 8"	21' 7"	18' 2"	23' 10"	20' 10"	17' 7"	23' 2"	20' 3"	17' 1"
	50	24	24' 3"	21' 2"	17' 10"	23' 2"	20' 3"	17' 1"	22' 3"	19' 6"	16' 6"	21' 7"	18' 9"	15' 10"	20' 10"	18' 3"	15' 4"	20' 3"	17' 8"	15' 0"
800S200-118	50	12	32' 1"	28' 1"	23' 8"	30' 8"	26' 10"	22' 7"	29' 7"	25' 9"	21' 9"	28' 6"	24' 10"	21' 0"	27' 7"	24' 1"	20' 4"	26' 10"	23' 6"	19' 9"
	50	16	29' 2"	25' 6"	21' 6"	27' 10"	24' 4"	20' 7"	26' 10"	23' 6"	19' 9"	25' 10"	22' 7"	19' 1"	25' 1"	21' 10"	18' 6"	24' 4"	21' 3"	18' 0"
	50	24	25' 6"	22' 3"	18' 9"	24' 4"	21' 3"	18' 0"	23' 6"	20' 6"	17' 3"	22' 7"	19' 9"	16' 8"	21' 10"	19' 2"	16' 2"	21' 3"	18' 7"	15' 8"
800S250-118	50	12	33' 7"	29' 4"	24' 9"	32' 2"	28' 1"	23' 8"	30' 10"	27' 0"	22' 9"	29' 9"	26' 1"	22' 0"	28' 10"	25' 3"	21' 3"	28' 1"	24' 6"	20' 8"
	50	16	30' 6"	26' 8"	22' 6"	29' 2"	25' 6"	21' 6"	28' 1"	24' 6"	20' 8"	27' 1"	23' 8"	20' 0"	26' 3"	22' 10"	19' 4"	25' 6"	22' 3"	18' 9"
	50	24	26' 8"	23' 3"	19' 8"	25' 6"	22' 3"	18' 9"	24' 6"	21' 4"	18' 1"	23' 8"	20' 8"	17' 6"	22' 10"	20' 0"	16' 10"	22' 3"	19' 6"	16' 4"
800S300-118	50	12	35' 0"	30' 7"	25' 9"	33' 6"	29' 2"	24' 7"	32' 2"	28' 1"	23' 8"	31' 1"	27' 1"	22' 10"	30' 1"	26' 3"	22' 2"	29' 2"	25' 6"	21' 6"
	50	16	31' 9"	27' 9"	23' 4"	30' 4"	26' 7"	22' 4"	29' 2"	25' 6"	21' 6"	28' 2"	24' 7"	20' 9"	27' 3"	23' 10"	20' 1"	26' 7"	23' 2"	19' 7"
	50	24	27' 9"	24' 3"	20' 6"	26' 7"	23' 2"	19' 7"	25' 6"	22' 3"	18' 9"	24' 7"	21' 6"	18' 2"	23' 10"	20' 10"	17' 7"	23' 2"	20' 3"	17' 1"
800S350-118	50	12	36' 9"	32' 2"	27' 1"	35' 2"	30' 9"	26' 0"	33' 10"	29' 7"	25' 0"	32' 8"	28' 7"	24' 1"	31' 8"	27' 8"	23' 3"	30' 9"	26' 10"	22' 8"
	50	16	33' 6"	29' 2"	24' 8"	32' 0"	28' 0"	23' 7"	30' 9"	26' 10"	22' 8"	29' 8"	26' 0"	21' 10"	28' 9"	25' 1"	21' 2"	28' 0"	24' 4"	20' 7"
	50	24	29' 2"	25' 6"	21' 6"	28' 0"	24' 4"	20' 7"	26' 10"	23' 6"	19' 9"	26' 0"	22' 8"	19' 1"	25' 1"	22' 0"	18' 6"	24' 4"	21' 3"	18' 0"

NOTES:

1) $p = I_W \{qC_eC_gC_p\}$; I_W of 0.75 has been incorporated in the deflection values of the table.
The parameters in the bracket { } must be determined by the design professional in accordance with the NBCC.

2) "e" web stiffeners required at ends.

BMAXX FRAMING SYSTEM SUPER-SPAN™ HEADERS & JOISTS

CURTAIN WALL LIMITING HEIGHT TABLE (ft-in.) - DOUBLE SPAN 5-30 psf

SPECIFIED LOADS			5 psf			10 psf			15 psf			20 psf			25 psf			30 psf		
STUD MEMBER	F_y (ksi)	SPACING (in.) o.c.	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600
362S162-118	50	12	51' 9"	41' 1"	35' 10"	32' 7"	28' 6"	24' 0"	28' 6"	24' 10"	21' 0"	25' 10"	22' 7"	19' 1"	24' 0"	21' 0"	17' 8"	22' 7"	19' 9"	16' 8"
	50	16	47' 1"	37' 4"	32' 7"	29' 7"	25' 10"	21' 9"	25' 10"	22' 7"	19' 1"	23' 6"	20' 7"	17' 3"	21' 9"	19' 1"	16' 1"	20' 4"	18' 0"	15' 1"
	50	24	41' 1"	32' 7"	28' 6"	25' 10"	22' 7"	19' 1"	22' 7"	19' 9"	16' 8"	20' 4"	18' 0"	15' 1"	17' 6"	16' 8"	14' 1"	15' 3"	15' 3"	13' 2"
362S200-118	50	12	55' 0"	43' 8"	38' 2"	34' 8"	30' 3"	25' 6"	30' 3"	26' 6"	22' 3"	27' 6"	24' 0"	20' 3"	25' 6"	22' 3"	18' 9"	24' 0"	21' 0"	17' 8"
	50	16	50' 0"	39' 8"	34' 8"	31' 6"	27' 6"	23' 2"	27' 6"	24' 0"	20' 3"	25' 0"	21' 9"	18' 4"	23' 2"	20' 3"	17' 1"	21' 4"	19' 1"	16' 1"
	50	24	43' 8"	34' 8"	30' 3"	27' 6"	24' 0"	20' 3"	24' 0"	21' 0"	17' 8"	21' 4"	19' 1"	16' 1"	18' 3"	17' 8"	14' 10"	15' 10"	15' 10"	14' 1"
362S250-118	50	12	58' 3"	46' 3"	40' 4"	36' 8"	32' 1"	27' 1"	32' 1"	28' 0"	23' 7"	29' 2"	25' 6"	21' 6"	27' 1"	23' 7"	19' 10"	25' 6"	22' 3"	18' 9"
	50	16	53' 0"	42' 1"	36' 8"	33' 4"	29' 2"	24' 7"	29' 2"	25' 6"	21' 6"	26' 6"	23' 1"	19' 6"	24' 7"	21' 6"	18' 1"	22' 2"	20' 2"	17' 1"
	50	24	46' 3"	36' 8"	32' 1"	29' 2"	25' 6"	21' 6"	25' 6"	22' 3"	18' 9"	22' 2"	20' 2"	17' 1"	18' 9"	18' 9"	15' 9"	16' 4"	16' 4"	14' 10"
362S300-118	50	12	61' 3"	48' 7"	42' 6"	38' 7"	33' 8"	28' 4"	33' 8"	29' 6"	24' 9"	30' 7"	26' 9"	22' 7"	28' 4"	24' 9"	21' 0"	26' 9"	23' 4"	19' 8"
	50	16	55' 8"	44' 2"	38' 7"	35' 1"	30' 7"	25' 9"	30' 7"	26' 9"	22' 7"	27' 9"	24' 3"	20' 6"	25' 9"	22' 7"	19' 0"	22' 10"	21' 2"	17' 10"
	50	24	48' 7"	38' 7"	33' 8"	30' 7"	26' 9"	22' 7"	26' 9"	23' 4"	19' 8"	22' 10"	21' 2"	17' 10"	19' 3"	19' 3"	16' 7"	16' 8"	16' 8"	15' 8"
362S350-118	50	12	64' 7"	51' 3"	44' 9"	40' 8"	35' 6"	30' 0"	35' 6"	31' 1"	26' 2"	32' 3"	28' 2"	23' 9"	30' 0"	26' 2"	22' 1"	28' 2"	24' 7"	20' 9"
	50	16	58' 8"	46' 7"	40' 8"	37' 0"	32' 3"	27' 2"	32' 3"	28' 2"	23' 9"	29' 3"	25' 7"	21' 7"	27' 2"	23' 9"	20' 1"	23' 9"	22' 4"	18' 10"
	50	24	51' 3"	40' 8"	35' 6"	32' 3"	28' 2"	23' 9"	28' 2"	24' 7"	20' 9"	23' 9"	22' 4"	18' 10"	19' 10"	19' 10"	17' 6"	17' 2"	17' 2"	16' 6"
400S162-118	50	12	56' 0"	44' 6"	38' 10"	35' 3"	30' 9"	26' 0"	30' 9"	26' 10"	22' 8"	28' 0"	24' 6"	20' 7"	26' 0"	22' 8"	19' 2"	24' 6"	21' 4"	18' 0"
	50	16	50' 10"	40' 4"	35' 3"	32' 1"	28' 0"	23' 7"	28' 0"	24' 6"	20' 7"	25' 6"	22' 2"	18' 9"	23' 7"	20' 7"	17' 4"	22' 2"	19' 4"	16' 4"
	50	24	44' 6"	35' 3"	30' 9"	28' 0"	24' 6"	20' 7"	24' 6"	21' 4"	18' 0"	22' 2"	19' 4"	16' 4"	20' 6"	18' 0"	15' 2"	18' 3"	17' 0"	14' 3"
400S200-118	50	12	59' 6"	47' 2"	41' 2"	37' 6"	32' 8"	27' 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"
	50	16	54' 0"	42' 10"	37' 6"	34' 0"	29' 8"	25' 1"	29' 8"	26' 0"	21' 10"	27' 0"	23' 7"	19' 10"	25' 1"	21' 10"	18' 6"	23' 7"	20' 7"	17' 4"
	50	24	47' 2"	37' 6"	32' 8"	29' 8"	26' 0"	21' 10"	26' 0"	22' 8"	19' 1"	23' 7"	20' 7"	17' 4"	21' 8"	19' 1"	16' 1"	19' 2"	18' 0"	15' 2"
400S250-118	50	12	62' 10"	49' 10"	43' 7"	39' 7"	34' 7"	29' 2"	34' 7"	30' 3"	25' 6"	31' 6"	27' 6"	23' 2"	29' 2"	25' 6"	21' 6"	27' 6"	24' 0"	20' 3"
	50	16	57' 2"	45' 4"	39' 7"	36' 0"	31' 6"	26' 6"	31' 6"	27' 6"	23' 2"	28' 7"	25' 0"	21' 1"	26' 6"	23' 2"	19' 7"	25' 0"	21' 9"	18' 4"
	50	24	49' 10"	39' 7"	34' 7"	31' 6"	27' 6"	23' 2"	27' 6"	24' 0"	20' 3"	25' 0"	21' 9"	18' 4"	22' 6"	20' 3"	17' 1"	19' 10"	19' 1"	16' 1"
400S300-118	50	12	66' 0"	52' 4"	45' 9"	41' 7"	36' 3"	30' 7"	36' 3"	31' 8"	26' 9"	33' 0"	28' 9"	24' 3"	30' 7"	26' 9"	22' 7"	28' 9"	25' 2"	21' 3"
	50	16	60' 0"	47' 7"	41' 7"	37' 9"	33' 0"	27' 9"	33' 0"	28' 9"	24' 3"	30' 0"	26' 2"	22' 1"	27' 9"	24' 3"	20' 6"	26' 2"	22' 10"	19' 3"
	50	24	52' 4"	41' 7"	36' 3"	33' 0"	28' 9"	24' 3"	28' 9"	25' 2"	21' 3"	26' 2"	22' 10"	19' 3"	23' 3"	21' 3"	17' 10"	20' 7"	20' 0"	16' 10"
400S350-118	50	12	69' 7"	55' 3"	48' 3"	43' 10"	38' 3"	32' 3"	38' 3"	33' 6"	28' 2"	34' 9"	30' 4"	25' 8"	32' 3"	28' 2"	23' 9"	30' 4"	26' 7"	22' 4"
	50	16	63' 3"	50' 2"	43' 10"	39' 10"	34' 9"	29' 4"	34' 9"	30' 4"	25' 8"	31' 7"	27' 7"	23' 3"	29' 4"	25' 8"	21' 7"	27' 7"	24' 1"	20' 4"
	50	24	55' 3"	43' 10"	38' 3"	34' 9"	30' 4"	25' 8"	30' 4"	26' 7"	22' 4"	27' 7"	24' 1"	20' 4"	24' 4"	22' 4"	18' 10"	21' 4"	21' 1"	17' 9"
600S162-118	50	12	77' 8"	61' 8"	53' 10"	49' 0"	42' 9"	36' 1"	42' 9"	37' 4"	31' 6"	38' 10"	34' 0"	28' 7"	36' 1"	31' 6"	26' 7"	34' 0"	29' 8"	25' 0"
	50	16	70' 7"	56' 1"	49' 0"	44' 6"	38' 10"	32' 9"	38' 10"	34' 0"	28' 7"	35' 3"	30' 9"	26' 0"	32' 9"	28' 7"	24' 2"	30' 9"	26' 10"	22' 8"
	50	24	61' 8"	49' 0"	42' 9"	38' 10"	34' 0"	28' 7"	34' 0"	29' 8"	25' 0"	30' 9"	26' 10"	22' 8"	28' 7"	25' 0"	21' 1"	26' 10"	23' 6"	19' 10"
600S200-118	50	12	82' 0"	65' 1"	56' 10"	51' 8"	45' 1"	38' 1"	45' 1"	39' 4"	33' 3"	41' 0"	35' 9"	30' 2"	38' 1"	33' 3"	28' 1"	35' 9"	31' 3"	26' 4"
	50	16	74' 6"	59' 1"	51' 8"	46' 10"	41' 0"	34' 7"	41' 0"	35' 9"	30' 2"	37' 3"	32' 6"	27' 6"	34' 7"	30' 2"	25' 6"	32' 6"	28' 4"	24' 0"
	50	24	65' 1"	51' 8"	45' 1"	41' 0"	35' 9"	30' 2"	35' 9"	31' 3"	26' 4"	32' 6"	28' 4"	24' 0"	30' 2"	26' 4"	22' 3"	28' 4"	24' 9"	21' 0"
600S250-118	50	12	86' 2"	68' 4"	59' 9"	54' 3"	47' 4"	40' 0"	47' 4"	41' 4"	35' 0"	43' 1"	37' 8"	31' 9"	40' 0"	35' 0"	29' 6"	37' 8"	32' 10"	27' 8"
	50	16	78' 3"	62' 2"	54' 3"	49' 3"	43' 1"	36' 4"	43' 1"	37' 8"	31' 9"	39' 2"	34' 2"	28' 10"	36' 4"	31' 9"	26' 9"	34' 2"	29' 10"	25' 2"
	50	24	68' 4"	54' 3"	47' 4"	43' 1"	37' 8"	31' 9"	37' 8"	32' 10"	27' 8"	34' 2"	29' 10"	25' 2"	31' 9"	27' 8"	23' 4"	29' 10"	26' 1"	22' 0"
600S300-118	50	12	90' 0"	71' 6"	62' 4"	56' 8"	49' 6"	41' 9"	49' 6"	43' 3"	36' 6"	45' 0"	39' 3"	33' 2"	41' 9"	36' 6"	30' 9"	39' 3"	34' 4"	29' 0"
	50	16	81' 9"	64' 10"	56' 8"	51' 6"	45' 0"	38' 0"	45' 0"	39' 3"	33' 2"	40' 10"	35' 8"	30' 1"	38' 0"	33' 2"	28' 0"	35' 8"	31' 2"	26' 3"
	50	24	71' 6"	56' 8"	49' 6"	45' 0"	39' 3"	33' 2"	39' 3"	34' 4"	29' 0"	35' 8"	31' 2"	26' 3"	33' 2"	29' 0"	24' 4"	30' 9"	27' 3"	23' 0"
600S350-118	50	12	95' 0"	75' 4"	65' 9"	59' 9"	52' 3"	44' 1"	52' 3"	45' 7"	38' 6"	47' 6"	41' 6"	35' 0"	44' 1"	38' 6"	32' 6"	41' 6"	36' 2"	30' 7"
	50	16	86' 3"	68' 6"	59' 9"	54' 3"	47' 6"	40' 0"	47' 6"	41' 6"	35' 0"	43' 1"	37' 8"	31' 9"	40' 0"	35' 0"	29' 6"	37' 8"	32' 10"	27' 9"
	50	24	75' 4"	59' 9"	52' 3"	47' 6"	41' 6"	35' 0"	41' 6"	36' 2"	30' 7"	37' 8"	32' 10"	27' 9"	35' 0"	30' 7"	25' 9"	32' 10"	28' 9"	24' 3"
800S162-118	50	12	98' 6"	78' 2"	68' 3"	62' 1"	54' 2"	45' 8"	54' 2"	47' 4"	39' 10"	47' 8"	41' 8"	35' 2"	45' 8"	39' 10"	33' 8"	43' 0"	37' 7"	31' 8"
	50	16	89' 6"	71' 0"	62' 1"	56' 4"	49' 3"	41' 6"	49' 3"	43' 0"	36' 3"	43' 3"	37' 10"	31' 10"	41' 6"	36' 3"	30' 7"	39' 1"	34' 1"	28' 9"
	50	24	78' 2"	62' 1"	54' 2"	49' 3"	43' 0"	36' 3"	43' 0"	37' 7"	31' 8"	37' 10"	33' 1"	27' 10"	36' 3"	31' 8"	26' 8"	34' 1"	29' 9"	25' 2"
800S200-118	50	12	103' 4"	82' 1"	71' 8"	65' 2"	56' 10"	48' 0"	56' 10"	49' 8"	41' 10"	51' 8"	45' 2"	38' 1"	48' 0"	41' 10"	35' 4"	45' 2"	39' 6"	33' 3"
	50	16	94' 0"	74' 7"	65' 2"	59' 2"	51' 8"	43' 7"	51' 8"	45' 2"	38' 1"	47' 0"	41' 0"	34' 7"	43' 7"	38' 1"	32' 1"	41' 0"	35' 10"	30' 2"
	50	24	82' 1"	65' 2"	56' 10"	51' 8"	45' 2"	38' 1"	45' 2"	39' 6"	33' 3"	41' 0"	35' 10"	30' 2"	37' 8"	33' 3"	28' 1"	34' 4"	31' 3"	26' 4"
800S250-118	50	12	108' 2"	85' 10"	75' 0"	68' 2"	59' 6"	50' 2"	59' 6"	52' 0"	43' 10"	54' 1"	47' 3"	39' 10"	50' 2"	43' 10"	37' 0"	47' 3"	41' 3"	34' 9"
	50	16	98' 3"	78' 0"	68' 2"	61' 10"	54' 1"	45' 7"	54' 1"	47' 3"	39' 10"	49' 1"	42' 10"	36' 2"	45' 7"	39' 10"	33' 7"	42' 10"	37' 6"	31' 7"
	50	24	85' 10"	68' 2"	59' 6"	54' 1"	47' 3"	39' 10"	47' 3"	41' 3"	34' 9"	42' 10"	37' 6"	31' 7"	39' 1"	34' 9"	29' 4"	35' 8"	32' 9"	27' 7"
800S300-118	50	12	112' 7"	89' 3"	78' 0"	70' 10"	61' 10"	52' 2"	61' 10"	54' 1"	45' 7"	56' 3"	49' 2"	41' 6"	52' 2"	45' 7"	38' 6"	49' 2"	43' 0"	36' 2"
	50	16	102' 3"	81' 2"	70' 10"	64' 4"	56' 3"	47' 6"	56' 3"	49' 2"	41' 6"	51' 1"	44' 8"	37' 8"	47' 6"	41' 6"	35' 0"	44' 8"	39' 0"	32' 10"
	50	24	89' 3"	70' 10"	61' 10"	56' 3"	49' 2"	41' 6"	49' 2"	43' 0"	36' 2"	44' 8"	39' 0"	32' 10"	40' 1"	36' 2"	30' 7"	36' 7"	34' 1"	28' 9"
800S350-118	50	12	118' 6"	94' 1"	82' 2"	74' 8"	65' 2"	55' 0"	65' 2"	57' 0"	48' 1"	59' 3"	51' 9"	43' 8"	55' 0"	48' 1"	40' 6"	51' 9"	45' 2"	38' 1"
	50	16	107' 8"	85' 6"	74' 8"	67' 9"	59' 3"	50' 0"	59' 3"	51' 9"	43' 8"	53' 9"	47' 0"	39' 8"	50' 0"	43' 8"	36' 9"	47' 0"	41' 1"	34' 8"
	50	24	94' 1"	74' 8"	65' 2"	59' 3"	51' 9"	43' 8"	51' 9"	45' 2"	38' 1"	47' 0"	41' 1"	34' 8"	43' 8"	38' 1"	32' 2"	40' 3"	35' 10"	30' 3"

NOTES:

1) $p = I_W \{qC_eC_gC_p\}$; I_W of 0.75 has been incorporated in the deflection values of the table.
The parameters in the bracket { } must be determined by the design professional in accordance with the NBCC.

2) "e" web stiffeners required at ends.

CURTAIN WALL LIMITING HEIGHT TABLE (ft-in.) - DOUBLE SPAN

35-60 psf

SPECIFIED LOADS			35 psf			40 psf			45 psf			50 psf			55 psf			60 psf		
STUD MEMBER	F_y (ksi)	SPACING (in.) o.c.	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600
362S162-118	50	12	21' 6"	18' 9"	15' 9"	20' 4"	18' 0"	15' 1"	18' 9"	17' 3"	14' 7"	17' 6"	16' 8"	14' 1"	16' 3"	16' 2"	13' 7"	15' 3"	15' 3"	13' 2"
	50	16	18' 4"	17' 1"	14' 4"	16' 8"	16' 3"	13' 9"	15' 3"	15' 3"	13' 2"	14' 2"	14' 2"	12' 9"	13' 2"	13' 2"	12' 4"	12' 3"	12' 3"	12' 0"
	50	24	13' 8"	13' 8"	12' 7"	12' 3"	12' 3"	12' 0"	11' 2"	11' 2"	11' 2"	10' 3"	10' 3"	10' 3"	9' 6"	9' 6"	9' 6"	8' 9"	8' 9"	8' 9"
362S200-118	50	12	22' 9"	20' 0"	16' 9"	21' 4"	19' 1"	16' 1"	19' 8"	18' 3"	15' 6"	18' 3"	17' 8"	14' 10"	17' 0"	17' 0"	14' 6"	15' 10"	15' 10"	14' 1"
	50	16	19' 2"	18' 1"	15' 3"	17' 4"	17' 3"	14' 7"	15' 10"	15' 10"	14' 1"	14' 8"	14' 8"	13' 7"	13' 7"	13' 7"	13' 2"	12' 8"	12' 8"	12' 8"
	50	24	14' 1"	14' 1"	13' 4"	12' 8"	12' 8"	12' 8"	11' 6"	11' 6"	11' 6"	10' 6"	10' 6"	10' 6"	9' 8"	9' 8"	9' 8"	9' 0"	9' 0"	9' 0"
362S250-118	50	12	24' 2"	21' 1"	17' 9"	22' 2"	20' 2"	17' 1"	20' 4"	19' 4"	16' 4"	18' 9"	18' 9"	15' 9"	17' 6"	17' 6"	15' 3"	16' 4"	16' 4"	14' 10"
	50	16	19' 9"	19' 2"	16' 2"	17' 10"	17' 10"	15' 6"	16' 4"	16' 4"	14' 10"	15' 0"	15' 0"	14' 4"	13' 10"	13' 10"	13' 10"	12' 10"	12' 10"	12' 10"
	50	24	14' 6"	14' 6"	14' 2"	12' 10"	12' 10"	12' 10"	11' 8"	11' 8"	11' 8"	10' 8"	10' 8"	10' 8"	9' 9"	9' 9"	9' 9"	9' 1"	9' 1"	9' 1"
362S300-118	50	12	25' 2"	22' 2"	18' 8"	22' 10"	21' 2"	17' 10"	20' 10"	20' 4"	17' 2"	19' 3"	19' 3"	16' 7"	17' 10"	17' 10"	16' 1"	16' 8"	16' 8"	15' 8"
	50	16	20' 4"	20' 2"	17' 0"	18' 4"	18' 4"	16' 3"	16' 8"	16' 8"	15' 8"	15' 3"	15' 3"	15' 1"	14' 2"	14' 2"	14' 2"	13' 1"	13' 1"	13' 1"
	50	24	14' 8"	14' 8"	14' 8"	13' 1"	13' 1"	13' 1"	11' 10"	11' 10"	11' 10"	10' 9"	10' 9"	10' 9"	9' 10"	9' 10"	9' 10"	9' 2"	9' 2"	9' 2"
362S350-118	50	12	26' 2"	23' 4"	19' 8"	23' 9"	22' 4"	18' 10"	21' 8"	21' 6"	18' 2"	19' 10"	19' 10"	17' 6"	18' 6"	18' 6"	17' 0"	17' 2"	17' 2"	16' 6"
	50	16	21' 1"	21' 1"	17' 10"	18' 10"	18' 10"	17' 2"	17' 2"	17' 2"	16' 6"	15' 8"	15' 8"	15' 8"	14' 6"	14' 6"	14' 6"	13' 4"	13' 4"	13' 4"
	50	24	15' 1"	15' 1"	15' 1"	13' 4"	13' 4"	13' 4"	12' 1"	12' 1"	12' 1"	11' 0"	11' 0"	11' 0"	10' 0"	10' 0"	10' 0"	9' 2"	9' 2"	9' 2"
400S162-118	50	12	23' 3"	20' 3"	17' 1"	22' 2"	19' 4"	16' 4"	21' 4"	18' 8"	15' 9"	20' 6"	18' 0"	15' 2"	19' 3"	17' 6"	14' 8"	18' 3"	17' 0"	14' 3"
	50	16	21' 1"	18' 6"	15' 7"	19' 8"	17' 8"	14' 10"	18' 3"	17' 0"	14' 3"	17' 0"	16' 4"	13' 9"	16' 0"	15' 10"	13' 4"	15' 1"	15' 1"	13' 0"
	50	24	16' 6"	16' 1"	13' 7"	15' 1"	15' 1"	13' 0"	13' 10"	13' 10"	12' 6"	12' 9"	12' 9"	12' 1"	12' 0"	12' 0"	11' 8"	11' 2"	11' 2"	11' 2"
400S200-118	50	12	24' 8"	21' 7"	18' 2"	23' 7"	20' 7"	17' 4"	22' 8"	19' 9"	16' 8"	21' 8"	19' 1"	16' 1"	20' 4"	18' 6"	15' 7"	19' 2"	18' 0"	15' 2"
	50	16	22' 4"	19' 7"	16' 6"	20' 9"	18' 8"	15' 9"	19' 2"	18' 0"	15' 2"	17' 10"	17' 4"	14' 8"	16' 8"	16' 8"	14' 2"	15' 8"	15' 8"	13' 9"
	50	24	17' 3"	17' 1"	14' 4"	15' 8"	15' 8"	13' 9"	14' 4"	14' 4"	13' 3"	13' 3"	13' 3"	12' 9"	12' 4"	12' 4"	12' 4"	11' 7"	11' 7"	11' 7"
400S250-118	50	12	26' 1"	22' 9"	19' 2"	25' 0"	21' 9"	18' 4"	24' 0"	21' 0"	17' 8"	22' 6"	20' 3"	17' 1"	21' 1"	19' 7"	16' 6"	19' 10"	19' 1"	16' 1"
	50	16	23' 6"	20' 8"	17' 6"	21' 7"	19' 9"	16' 8"	19' 10"	19' 1"	16' 1"	18' 6"	18' 4"	15' 6"	17' 3"	17' 3"	15' 0"	16' 2"	16' 2"	14' 7"
	50	24	17' 10"	17' 10"	15' 3"	16' 2"	16' 2"	14' 7"	14' 9"	14' 9"	14' 0"	13' 8"	13' 8"	13' 7"	12' 8"	12' 8"	12' 8"	11' 9"	11' 9"	11' 9"
400S300-118	50	12	27' 4"	23' 10"	20' 2"	26' 2"	22' 10"	19' 3"	25' 0"	22' 0"	18' 7"	23' 3"	21' 3"	17' 10"	21' 9"	20' 7"	17' 4"	20' 7"	20' 0"	16' 10"
	50	16	24' 4"	21' 8"	18' 3"	22' 3"	20' 9"	17' 6"	20' 7"	20' 0"	16' 10"	19' 1"	19' 1"	16' 3"	17' 9"	17' 9"	15' 9"	16' 8"	16' 8"	15' 3"
	50	24	18' 4"	18' 4"	16' 0"	16' 8"	16' 8"	15' 3"	15' 2"	15' 2"	14' 8"	14' 0"	14' 0"	14' 0"	12' 10"	12' 10"	12' 10"	12' 0"	12' 0"	12' 0"
400S350-118	50	12	28' 10"	25' 2"	21' 3"	27' 7"	24' 1"	20' 4"	26' 3"	23' 2"	19' 7"	24' 4"	22' 4"	18' 10"	22' 9"	21' 8"	18' 3"	21' 4"	21' 1"	17' 9"
	50	16	25' 7"	22' 10"	19' 3"	23' 3"	21' 10"	18' 6"	21' 4"	21' 1"	17' 9"	19' 9"	19' 9"	17' 2"	18' 4"	18' 4"	16' 7"	17' 2"	17' 2"	16' 2"
	50	24	19' 1"	19' 1"	16' 10"	17' 2"	17' 2"	16' 2"	15' 8"	15' 8"	15' 6"	14' 4"	14' 4"	14' 4"	13' 3"	13' 3"	13' 3"	12' 3"	12' 3"	12' 3"
600S162-118	50	12	32' 3"	28' 2"	23' 9"	30' 9"	26' 10"	22' 8"	29' 8"	25' 10"	21' 10"	28' 7"	25' 0"	21' 1"	27' 8"	24' 2"	20' 4"	26' 10"	23' 6"	19' 10"
	50	16	29' 3"	25' 7"	21' 7"	28' 0"	24' 6"	20' 8"	26' 10"	23' 6"	19' 10"	26' 0"	22' 8"	19' 2"	25' 1"	22' 0"	18' 7"	24' 0"	21' 4"	18' 0"
	50	24	25' 7"	22' 4"	18' 10"	24' 0"	21' 4"	18' 0"	22' 6"	20' 7"	17' 3"	21' 3"	19' 10"	16' 8"	20' 2"	19' 2"	16' 2"	19' 2"	18' 8"	15' 9"
600S200-118	50	12	34' 0"	29' 8"	25' 1"	32' 6"	28' 4"	24' 0"	31' 3"	27' 3"	23' 1"	30' 2"	26' 4"	22' 3"	29' 3"	25' 7"	21' 7"	28' 4"	24' 9"	21' 0"
	50	16	30' 10"	27' 0"	22' 9"	29' 7"	25' 9"	21' 9"	28' 4"	24' 9"	21' 0"	27' 6"	24' 0"	20' 2"	26' 7"	23' 2"	19' 7"	25' 6"	22' 7"	19' 0"
	50	24	27' 0"	23' 7"	19' 10"	25' 6"	22' 7"	19' 0"	23' 10"	21' 8"	18' 3"	22' 6"	21' 0"	17' 8"	21' 4"	20' 3"	17' 1"	20' 4"	19' 8"	16' 7"
600S250-118	50	12	35' 9"	31' 2"	26' 4"	34' 2"	29' 10"	25' 2"	32' 10"	28' 8"	24' 2"	31' 9"	27' 8"	23' 4"	30' 9"	26' 10"	22' 8"	29' 10"	26' 1"	22' 0"
	50	16	32' 6"	28' 4"	23' 10"	31' 1"	27' 2"	22' 10"	29' 10"	26' 1"	22' 0"	28' 4"	25' 2"	21' 3"	27' 1"	24' 4"	20' 7"	25' 10"	23' 8"	20' 0"
	50	24	27' 8"	24' 9"	20' 10"	25' 10"	23' 8"	20' 0"	24' 6"	22' 9"	19' 2"	23' 2"	22' 0"	18' 7"	22' 1"	21' 3"	18' 0"	21' 2"	20' 8"	17' 6"
600S300-118	50	12	37' 4"	32' 7"	27' 6"	35' 8"	31' 2"	26' 3"	34' 4"	30' 0"	25' 3"	33' 2"	29' 0"	24' 4"	32' 1"	28' 1"	23' 8"	30' 9"	27' 3"	23' 0"
	50	16	33' 10"	29' 8"	25' 0"	32' 6"	28' 4"	23' 10"	30' 9"	27' 3"	23' 0"	29' 3"	26' 3"	22' 2"	27' 10"	25' 6"	21' 6"	26' 8"	24' 9"	20' 10"
	50	24	28' 6"	25' 10"	21' 9"	26' 8"	24' 9"	20' 10"	25' 2"	23' 9"	20' 1"	23' 10"	23' 0"	19' 4"	22' 9"	22' 3"	18' 9"	21' 9"	21' 7"	18' 3"
600S350-118	50	12	39' 4"	34' 4"	29' 0"	37' 8"	32' 10"	27' 9"	36' 2"	31' 8"	26' 8"	35' 0"	30' 7"	25' 9"	33' 10"	29' 7"	25' 0"	32' 10"	28' 9"	24' 3"
	50	16	35' 9"	31' 3"	26' 4"	34' 2"	29' 10"	25' 2"	32' 10"	28' 9"	24' 3"	31' 9"	27' 9"	23' 4"	30' 9"	26' 10"	22' 8"	29' 6"	26' 1"	22' 0"
	50	24	31' 3"	27' 3"	23' 0"	29' 6"	26' 1"	22' 0"	27' 7"	25' 1"	21' 2"	26' 0"	24' 3"	20' 6"	24' 7"	23' 6"	19' 9"	23' 4"	22' 9"	19' 3"
800S162-118	50	12	40' 10"	35' 8"	30' 1"	39' 1"	34' 1"	28' 9"	37' 7"	32' 9"	27' 8"	36' 3"	31' 8"	26' 8"	35' 2"	30' 8"	25' 10"	34' 1"	29' 9"	25' 2"
	50	16	37' 1"	32' 4"	27' 4"	35' 6"	31' 0"	26' 2"	34' 1"	29' 9"	25' 2"	33' 0"	28' 9"	24' 3"	31' 7"	27' 10"	23' 6"	30' 3"	27' 1"	22' 10"
	50	24	32' 4"	28' 3"	23' 10"	30' 3"	27' 1"	22' 10"	28' 6"	26' 1"	22' 0"	27' 0"	25' 2"	21' 2"	25' 8"	24' 4"	20' 7"	24' 6"	23' 8"	20' 0"
800S200-118	50	12	42' 10"	37' 6"	31' 7"	41' 0"	35' 10"	30' 2"	39' 6"	34' 6"	29' 1"	37' 8"	33' 3"	28' 1"	35' 10"	32' 2"	27' 2"	34' 4"	31' 3"	26' 4"
	50	16	39' 0"	34' 1"	28' 8"	36' 6"	32' 7"	27' 6"	34' 4"	31' 3"	26' 4"	32' 7"	30' 2"	25' 6"	31' 1"	29' 3"	24' 8"	29' 9"	28' 6"	24' 0"
	50	24	31' 10"	29' 9"	25' 1"	29' 9"	28' 6"	24' 0"	28' 1"	27' 4"	23' 1"	26' 8"	26' 4"	22' 3"	25' 4"	25' 4"	21' 7"	24' 3"	24' 3"	21' 0"
800S250-118	50	12	44' 10"	39' 2"	33' 1"	42' 10"	37' 6"	31' 7"	41' 2"	36' 1"	30' 4"	39' 1"	34' 9"	29' 4"	37' 3"	33' 8"	28' 4"	35' 8"	32' 9"	27' 7"
	50	16	40' 6"	35' 7"	30' 0"	37' 10"	34' 1"	28' 8"	35' 8"	32' 9"	27' 7"	33' 10"	31' 7"	26' 8"	32' 3"	30' 7"	25' 9"	30' 10"	29' 9"	25' 1"
	50	24	33' 1"	31' 1"	26' 3"	30' 10"	29' 9"	25' 1"	29' 2"	28' 7"	24' 1"	27' 8"	27' 7"	23' 3"	26' 4"	26' 4"	22' 7"	25' 2"	25' 2"	21' 10"
800S300-118	50	12	46' 8"	40' 9"	34' 4"	44' 8"	39' 0"	32' 10"	42' 2"	37.5	31' 7"	40' 1"	36' 2"	30' 7"	38' 2"	35' 1"	29' 7"	36' 7"	34' 1"	28' 9"
	50	16	41' 6"	37' 1"	31' 3"	38' 9"	35' 6"	29' 10"	36' 7"	34' 1"	28' 9"	34' 8"	32' 10"	27' 9"	33' 1"	31' 10"	26' 10"	31' 8"	31' 0"	26' 1"
	50	24	33' 10"	32' 4"	27' 3"	31' 8"	31' 0"	26' 1"	29' 10"	29' 9"	25' 1"	28' 3"	28' 3"	24' 3"	27' 0"	27' 0"	23' 6"	25' 10"	25' 10"	22' 9"
800S350-118	50	12	49' 2"	43' 0"	36' 2"	47' 0"	41' 1"	34' 8"	45' 2"	39' 6"	33' 3"	43' 8"	38' 1"	32' 2"	42' 1"	37' 0"	31' 2"	40' 3"	35' 10"	30' 3"
	50	16	44' 8"	39' 0"	32' 10"	42' 8"	37' 3"	31' 6"	40' 3"	35' 10"	30' 3"	38' 2"	34' 8"	29' 2"	36' 6"	33' 7"	28' 3"	34' 10"	32' 7"	27' 6"
	50	24	37' 3"	34' 1"	28' 9"	34' 10"	32' 7"	27' 6"	32' 10"	31' 4"	26' 4"	31' 2"	30' 3"	25' 6"	29' 9"	29' 3"	24' 8"	28' 6"	28' 6"	24' 0"

NOTES:

1) $p = I_W \{qC_eC_gC_p\}$; I_W of 0.75 has been incorporated in the deflection values of the table.
The parameters in the bracket { } must be determined by the design professional in accordance with the NBCC.

2) "e" web stiffeners required at ends.

BMAXX FRAMING SYSTEM
SUPER-SPAN™ HEADERS & JOISTS

COMBINED AXIAL AND LATERAL LOAD TABLES

TABLE NOTES:

1. Limiting factored axial resistances are based on simple span and are given in kips (1 kip = 1,000 lb).
2. Axial resistances are based on Section H1 of S136-16 with the assumption that the axial load passes through the centroid of the effective section and studs are braced at 4'-0" o.c.
3. Studs are assumed to be adequately braced at a maximum spacing of L_u to develop the full factored moment resistance, M_r.
4. For deflection calculations, the SLS importance factor for wind load is 0.75.
5. End supports have not been checked for web crippling. See web crippling data on page 35 .

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

0 psf Factored Lateral Load — 362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	14.4	17.1	19.7	22.1	28.4	16.5	19.7	22.6	25.5	32.1
	16	14.4	17.1	19.7	22.1	28.4	16.5	19.7	22.6	25.5	32.1
	24	14.4	17.1	19.7	22.1	28.4	16.5	19.7	22.6	25.5	32.1
9	12	13.4	15.9	18.3	20.6	26.4	15.7	18.6	21.4	24.1	30.2
	16	13.4	15.9	18.3	20.6	26.4	15.7	18.6	21.4	24.1	30.2
	24	13.4	15.9	18.3	20.6	26.4	15.7	18.6	21.4	24.1	30.2
10	12	12.3	14.6	16.9	19.0	24.2	14.7	17.4	20.0	22.6	28.3
	16	12.3	14.6	16.9	19.0	24.2	14.7	17.4	20.0	22.6	28.3
	24	12.3	14.6	16.9	19.0	24.2	14.7	17.4	20.0	22.6	28.3
12	12	9.96	11.9	13.8	15.7	19.9	12.4	14.7	17.0	19.3	24.1
	16	9.96	11.9	13.8	15.7	19.9	12.4	14.7	17.0	19.3	24.1
	24	9.96	11.9	13.8	15.7	19.9	12.4	14.7	17.0	19.3	24.1
14	12	7.88	9.46	11.1	12.7	15.9	10.0	12.0	14.0	15.9	19.8
	16	7.88	9.46	11.1	12.7	15.9	10.0	12.0	14.0	15.9	19.8
	24	7.88	9.46	11.1	12.7	15.9	10.0	12.0	14.0	15.9	19.8
16	12	6.33	7.63	9.02	10.4	12.9	8.07	9.67	11.4	13.1	16.1
	16	6.33	7.63	9.02	10.4	12.9	8.07	9.67	11.4	13.1	16.1
	24	6.32	7.63	9.02	10.4	12.9	8.06	9.67	11.4	13.1	16.1
18	12	5.16	6.25	7.43	8.59	10.6	6.59	7.94	9.38	10.8	13.2
	16	5.16	6.25	7.43	8.59	10.6	6.59	7.94	9.38	10.8	13.2
	24	5.15	6.25	7.43	8.59	10.6	6.59	7.94	9.38	10.8	13.2
20	12	4.27	5.19	6.20	7.20	8.81	5.46	6.60	7.84	9.06	11.0
	16	4.27	5.19	6.20	7.19	8.81	5.46	6.60	7.83	9.06	11.0
	24	4.27	5.19	6.20	7.19	8.81	5.46	6.60	7.83	9.06	11.0

10 psf Factored Lateral Load — 362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	14.0	16.7	19.2	21.6	27.8	16.5	19.7	22.6	25.5	31.6
	16	13.9	16.6	19.1	21.5	27.7	16.5	19.7	22.6	25.5	31.4
	24	13.6	16.3	18.8	21.2	27.3	16.5	19.7	22.6	25.5	31.1
9	12	12.9	15.4	17.8	20.0	25.7	15.7	18.6	21.4	24.1	29.6
	16	12.7	15.2	17.6	19.8	25.5	15.7	18.6	21.4	24.1	29.4
	24	12.4	14.9	17.2	19.5	25.0	15.7	18.6	21.4	24.1	29.0
10	12	11.7	14.0	16.2	18.3	23.4	14.7	17.4	20.0	22.6	27.4
	16	11.5	13.8	16.0	18.1	23.1	14.7	17.4	20.0	22.6	27.2
	24	11.1	13.3	15.6	17.6	22.6	14.7	17.4	20.0	22.6	26.7
12	12	9.12	11.0	12.9	14.7	18.8	12.4	14.7	17.0	19.3	22.9
	16	8.86	10.7	12.7	14.4	18.4	12.4	14.7	17.0	19.3	22.5
	24	8.39	10.3	12.1	13.8	17.8	12.4	14.7	17.0	19.3	21.8
14	12	6.95	8.47	10.1	11.6	14.6	10.0	12.0	14.0	15.9	18.4
	16	6.68	8.19	9.77	11.2	14.2	10.0	12.0	14.0	15.9	17.9
	24	6.19	7.67	9.21	10.6	13.5	10.0	12.0	14.0	15.9	17.1
16	12	5.34	6.58	7.90	9.12	11.5	8.07	9.67	11.4	13.1	14.5
	16	5.07	6.29	7.59	8.77	11.1	8.07	9.67	11.4	13.1	14.0
	24	4.60[3]	5.77[4]	7.02	8.13	10.3	8.06	9.67	11.4	13.1	13.2
18	12	4.15	5.17	6.26	7.26	9.09	6.59	7.94	9.38	10.8	11.6
	16	3.90[4]	4.88	5.95	6.91	8.70	6.59	7.94	9.38	10.8	11.1
	24	3.44[3]	4.38[3]	5.40[4]	6.27[4]	8.00	6.59	7.94	9.38	10.8	10.3
20	12	3.27[4]	4.10	5.01	5.83	7.30	5.46	6.60	7.84	9.06	9.33
	16	3.02[3]	3.83[3]	4.71[4]	5.49	6.92	5.46	6.60	7.83	9.06	8.90
	24	2.59[2]	3.36[3]	4.18[3]	4.88[3]	6.26[3]	5.46	6.60	7.83	9.06	8.12

NOTES:

[1] Deflection meets L/120
[2] Deflection meets L/240
[3] Deflection meets L/360
[4] Deflection meets L/600
If not indicated, deflection meets L/720

BMAXX FRAMING SYSTEM | SUPERSPAN™ HEADERS & JOISTS

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

20 psf Factored Lateral Load — 362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	13.6	16.3	18.8	21.2	27.3	15.7	18.9	21.7	24.6	31.1
	16	13.3	16.0	18.5	20.9	27.0	15.5	18.6	21.4	24.3	30.8
	24	12.8	15.5	18.0	20.3	26.3	15.0	18.1	20.8	23.7	30.2
9	12	12.4	14.9	17.2	19.5	25.0	14.6	17.6	20.2	22.9	29.0
	16	12.1	14.5	16.9	19.1	24.6	14.3	17.2	19.8	22.5	28.6
	24	11.4	13.9	16.2	18.3	23.8	13.7	16.6	19.1	21.8	27.8
10	12	11.1	13.3	15.6	17.6	22.6	13.4	16.1	18.5	21.1	26.7
	16	10.7	13.0	15.2	17.2	22.1	13.0	15.7	18.1	20.6	26.2
	24	10.0	12.2	14.4	16.3	21.2	12.3	14.9	17.2	19.7	25.2
12	12	8.39	10.3	12.1	13.8	17.8	10.7	13.0	15.0	17.3	21.8
	16	7.95	9.78	11.6	13.3	17.2	10.2	12.4	14.5	16.7	21.2
	24	7.16[4]	8.94	10.8	12.3	16.0	9.31	11.5	13.4	15.6	20.0
14	12	6.19	7.67	9.21	10.6	13.5	8.09	9.93	11.6	13.5	17.1
	16	5.75[4]	7.19	8.70	10.0	12.9	7.58	9.39	11.0	12.9	16.4
	24	4.97[3]	6.34[3]	7.78[4]	8.98	11.7	6.68[3]	8.41[4]	9.86	11.7	15.1
16	12	4.60[3]	5.77[4]	7.02	8.13	10.3	6.08	7.56	8.90	10.5	13.2
	16	4.17[3]	5.31[3]	6.52[4]	7.55	9.70	5.59[3]	7.02[4]	8.27	9.79	12.5
	24	3.43[2]	4.50[2]	5.62[3]	6.53[3]	8.57[3]	4.72[3]	6.07[3]	7.16[3]	8.60[4]	11.2
18	12	3.44[3]	4.38[3]	5.40[4]	6.27[4]	8.00	4.61[3]	5.79[4]	6.86	8.13	10.3
	16	3.04[2]	3.94[3]	4.91[3]	5.72[3]	7.39[4]	4.14[3]	5.28[3]	6.25[3]	7.48[4]	9.60
	24	2.35[1]	3.18[2]	4.06[2]	4.74[2]	6.32[3]	3.33[2]	4.38[2]	5.19[3]	6.34[3]	8.36[3]
20	12	2.59[2]	3.36[3]	4.18[3]	4.88[3]	6.26[3]	3.52[3]	4.48[3]	5.32[3]	6.37[4]	8.12
	16	2.22[1]	2.94[2]	3.72[2]	4.35[3]	5.67[3]	3.08[2]	4.00[2]	4.74[3]	5.74[3]	7.45[3]
	24	1.58[1]	2.23[1]	2.92[1]	3.43[2]	4.67[2]	2.32[1]	3.16[1]	3.75[2]	4.66[2]	6.27[3]

30 psf Factored Lateral Load — 362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	13.2	15.9	18.4	20.7	26.8	15.4	18.5	21.3	24.1	30.6
	16	12.8	15.5	18.0	20.3	26.3	15.0	18.1	20.8	23.7	30.2
	24	12.1	14.7	17.2	19.4	25.4	14.3	17.4	20.0	22.8	29.2
9	12	11.9	14.4	16.7	18.9	24.4	14.2	17.1	19.6	22.3	28.4
	16	11.4	13.9	16.2	18.3	23.8	13.7	16.6	19.1	21.8	27.8
	24	10.5	13.0	15.3	17.3	22.6	12.8	15.6	18.0	20.7	26.6
10	12	10.5	12.8	15.0	16.9	21.9	12.8	15.5	17.9	20.4	25.9
	16	10.0	12.2	14.4	16.3	21.2	12.3	14.9	17.2	19.7	25.2
	24	8.98	11.2	13.3	15.1	19.8	11.2	13.8	16.0	18.5	23.8
12	12	7.75	9.56	11.4	13.0	16.9	9.97	12.2	14.2	16.4	20.9
	16	7.16[4]	8.94	10.8	12.3	16.0	9.31	11.5	13.4	15.6	20.0
	24	6.11[3]	7.81[3]	9.54[4]	10.9	14.5	8.13[3]	10.2[4]	11.9	14.0	18.3
14	12	5.54[3]	6.97[4]	8.46	9.74	12.6	7.35	9.13	10.7	12.6	16.1
	16	4.97[3]	6.34[3]	7.78[4]	8.98	11.7	6.68[3]	8.41[4]	9.86	11.7	15.1
	24	3.96[2]	5.24[2]	6.58[3]	7.61[3]	10.2[3]	5.50[3]	7.13[3]	8.37[3]	10.1[4]	13.3
16	12	3.97[3]	5.09[3]	6.28[3]	7.28[4]	9.40	5.36[3]	6.77[4]	7.98[4]	9.47	12.2
	16	3.43[2]	4.50[2]	5.62[3]	6.53[3]	8.57[3]	4.72[3]	6.07[3]	7.16[3]	8.60[4]	11.2
	24	2.49[1]	3.46[1]	4.48[2]	5.22[2]	7.13[3]	3.62[2]	4.86[2]	5.74[2]	7.06[3]	9.52[3]
18	12	2.86[2]	3.74[2]	4.68[3]	5.46[3]	7.10[3]	3.92[2]	5.04[3]	5.97[3]	7.18[3]	9.27[4]
	16	2.35[1]	3.18[2]	4.06[2]	4.74[2]	6.32[3]	3.33[2]	4.38[2]	5.19[3]	6.34[3]	8.36[3]
	24	1.48[1]	2.21[1]	2.98[1]	3.51[1]	4.96[2]	2.30[1]	3.25[1]	3.85[2]	4.89[2]	6.78[2]
20	12	2.05[1]	2.75[2]	3.50[2]	4.10[2]	5.41[3]	2.88[2]	3.77[2]	4.48[3]	5.46[3]	7.13[3]
	16	1.58[1]	2.23[1]	2.92[1]	3.43[2]	4.67[2]	2.32[1]	3.16[1]	3.75[2]	4.66[2]	6.27[3]
	24	0.78[1]	1.33[1]	1.92[1]	2.27[1]	3.40[1]	1.37[1]	2.10[1]	2.50[1]	3.30[1]	4.80[2]

NOTES:

[1] Deflection meets L/120
[2] Deflection meets L/240
[3] Deflection meets L/360
[4] Deflection meets L/600
If not indicated, deflection meets L/720

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

40 psf Factored Lateral Load

362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	12.8	15.5	18.0	20.3	26.3	15.0	18.1	20.8	23.7	30.2
	16	12.3	15.0	17.5	19.7	25.7	14.5	17.6	20.3	23.1	29.5
	24	11.4	14.0	16.5	18.6	24.4	13.6	16.6	19.1	22.0	28.3
9	12	11.4	13.9	16.2	18.3	23.8	13.7	16.6	19.1	21.8	27.8
	16	10.8	13.3	15.6	17.6	23.0	13.1	16.0	18.4	21.1	27.0
	24	9.72	12.1	14.4	16.3	21.5	12.0	14.8	17.0	19.7	25.5
10	12	10.0	12.2	14.4	16.3	21.2	12.3	14.9	17.2	19.7	25.2
	16	9.30	11.5	13.7	15.5	20.3	11.6	14.2	16.4	18.9	24.3
	24	8.08[4]	10.2	12.3	14.0	18.6	10.3	12.8	14.8	17.3	22.5
12	12	7.16[4]	8.94	10.8	12.3	16.0	9.31	11.5	13.4	15.6	20.0
	16	6.44[3]	8.17[4]	9.9	11.4	15.0	8.51[4]	10.6	12.4	14.5	18.8
	24	5.18[2]	6.80[3]	8.45[3]	9.72[3]	13.1[4]	7.07[3]	9.09[3]	10.6[4]	12.6	16.8
14	12	4.97[3]	6.34[3]	7.78[4]	8.98	11.7	6.68[3]	8.41[4]	9.86	11.7	15.1
	16	4.28[2]	5.59[3]	6.96[3]	8.05[3]	10.7[4]	5.88[3]	7.54[3]	8.85[4]	10.6[4]	13.9
	24	3.08[1]	4.28[2]	5.52[2]	6.41[3]	8.84[3]	4.48[2]	6.01[2]	7.06[3]	8.68[3]	11.8[3]
16	12	3.43[2]	4.50[2]	5.62[3]	6.53[3]	8.57[3]	4.72[3]	6.07[3]	7.16[3]	8.60[4]	11.2
	16	2.79[1]	3.78[2]	4.84[2]	5.63[3]	7.58[3]	3.97[2]	5.24[2]	6.18[3]	7.55[3]	10.1[3]
	24	1.68[1]	2.56[1]	3.48[1]	4.08[2]	5.87[2]	2.66[1]	3.81[1]	4.50[2]	5.73[2]	8.06[3]
18	12	2.35[1]	3.18[2]	4.06[2]	4.74[2]	6.32[3]	3.33[2]	4.38[2]	5.19[3]	6.34[3]	8.36[3]
	16	1.75[1]	2.52[1]	3.32[1]	3.90[2]	5.39[2]	2.62[1]	3.61[1]	4.27[2]	5.34[2]	7.28[3]
	24	0.73[1]	1.38[1]	2.06[1]	2.45[1]	3.80[1]	1.42[1]	2.28[1]	2.70[1]	3.64[1]	5.42[2]
20	12	1.58[1]	2.23[1]	2.92[1]	3.43[2]	4.67[2]	2.32[1]	3.16[1]	3.75[2]	4.66[2]	6.27[3]
	16	1.03[1]	1.61[1]	2.23[1]	2.64[1]	3.80[1]	1.67[1]	2.43[1]	2.89[1]	3.73[1]	5.26[2]
	24		0.57[1]	1.06[1]	1.29[1]	2.33[1]	0.56[1]	1.20[1]	1.44[1]	2.14[1]	3.54[1]

50 psf Factored Lateral Load

362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	12.4	15.1	17.6	19.9	25.9	14.6	17.7	20.4	23.2	29.7
	16	11.8	14.5	17.0	19.2	25.1	14.0	17.1	19.7	22.5	28.9
	24	10.7	13.3	15.7	17.8	23.5	12.9	15.9	18.3	21.1	27.4
9	12	11.0	13.4	15.8	17.8	23.2	13.2	16.1	18.6	21.2	27.2
	16	10.3	12.7	15.0	17.0	22.2	12.5	15.3	17.7	20.4	26.2
	24	8.9[4]	11.3	13.5	15.4	20.4	11.1	13.9	16.1	18.7	24.4
10	12	9.46	11.7	13.8	15.7	20.5	11.7	14.4	16.6	19.1	24.5
	16	8.67	10.8	13.0	14.7	19.4	10.9	13.5	15.6	18.1	23.4
	24	7.24[3]	9.31[3]	11.4[4]	13.0	17.4	9.37[4]	11.9	13.7	16.2	21.3
12	12	6.62[3]	8.35[4]	10.1	11.6	15.2	8.70[4]	10.9	12.6	14.8	19.1
	16	5.79[3]	7.46[3]	9.16[4]	10.5[4]	14.0	7.76[3]	9.84[4]	11.5	13.6	17.8
	24	4.33[2]	5.88[2]	7.46[3]	8.60[3]	11.9[3]	6.10[2]	8.04[3]	9.38[3]	11.4[3]	15.4[4]
14	12	4.44[2]	5.77[3]	7.16[3]	8.27[3]	10.9[4]	6.07[3]	7.75[3]	9.09[4]	10.8	14.2
	16	3.65[2]	4.91[2]	6.21[3]	7.20[3]	9.71[3]	5.15[2]	6.74[3]	7.92[3]	9.60[3]	12.8[4]
	24	2.29[1]	3.41[1]	4.57[2]	5.33[2]	7.63[2]	3.56[1]	5.00[2]	5.88[2]	7.41[3]	10.4[3]
16	12	2.94[1]	3.95[2]	5.03[2]	5.85[3]	7.82[3]	4.15[2]	5.44[3]	6.42[3]	7.80[3]	10.3[3]
	16	2.21[1]	3.15[1]	4.13[2]	4.83[2]	6.69[2]	3.29[1]	4.49[2]	5.31[2]	6.60[3]	9.02[3]
	24	0.95[1]	1.76[1]	2.59[1]	3.06[1]	4.75[1]	1.81[1]	2.87[1]	3.39[1]	4.53[2]	6.76[2]
18	12	1.89[1]	2.67[1]	3.50[2]	4.10[2]	5.61[2]	2.79[1]	3.79[2]	4.49[2]	5.58[2]	7.54[3]
	16	1.22[1]	1.92[1]	2.66[1]	3.14[1]	4.56[2]	2.00[1]	2.91[1]	3.45[1]	4.45[2]	6.31[2]
	24	0.07[1]	0.65[1]	1.24[1]	1.50[1]	2.76[1]	0.64[1]	1.41[1]	1.68[1]	2.52[1]	4.21[1]
20	12	1.16[1]	1.76[1]	2.40[1]	2.82[1]	4.01[1]	1.83[1]	2.61[1]	3.10[1]	3.95[2]	5.50[2]
	16	0.54[1]	1.07[1]	1.62[1]	1.93[1]	3.03[1]	1.09[1]	1.79[1]	2.13[1]	2.90[1]	4.36[1]
	24			0.30[1]	0.41[1]	1.37[1]		0.40[1]	0.49[1]	1.11[1]	2.41[1]

NOTES:

[1] Deflection meets L/120
[3] Deflection meets L/360
[2] Deflection meets L/240
[4] Deflection meets L/600
If not indicated, deflection meets L/720

BMAXX FRAMING SYSTEM
SUPERSPAN™ HEADERS & JOISTS

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

60 psf Factored Lateral Load — 362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	12.1	14.7	17.2	19.4	25.4	14.3	17.4	20.0	22.8	29.2
	16	11.4	14.0	16.5	18.6	24.4	13.6	16.6	19.1	22.0	28.3
	24	10.0	12.6	15.0	17.0	22.7	12.2	15.2	17.5	20.3	26.6
9	12	10.5	13.0	15.3	17.3	22.6	12.8	15.6	18.0	20.7	26.6
	16	9.72	12.1	14.4	16.3	21.5	12.0	14.8	17.0	19.7	25.5
	24	8.20[3]	10.5[4]	12.7	14.5	19.4	10.4[4]	13.1	15.1	17.7	23.4
10	12	8.98	11.2	13.3	15.1	19.8	11.2	13.8	16.0	18.5	23.8
	16	8.08[4]	10.2	12.3	14.0	18.6	10.3	12.8	14.8	17.3	22.5
	24	6.46[3]	8.48[3]	10.5[3]	12.0[4]	16.3	8.52[3]	11.0[4]	12.7	15.1	20.1
12	12	6.11[3]	7.81[3]	9.54[4]	10.9	14.5	8.13[3]	10.2[4]	11.9	14.0	18.3
	16	5.18[2]	6.80[3]	8.45[3]	9.72[3]	13.1[4]	7.07[3]	9.09[3]	10.6[4]	12.6	16.8
	24	3.55[1]	5.03[2]	6.53[2]	7.56[3]	10.7[3]	5.21[2]	7.08[2]	8.26[3]	10.2[3]	14.0[3]
14	12	3.96[2]	5.24[2]	6.58[3]	7.61[3]	10.2[3]	5.50[3]	7.13[3]	8.37[3]	10.1[4]	13.3
	16	3.08[1]	4.28[2]	5.52[2]	6.41[3]	8.84[3]	4.48[2]	6.01[2]	7.06[3]	8.68[3]	11.8[3]
	24	1.57[1]	2.62[1]	3.69[1]	4.33[2]	6.53[2]	2.71[1]	4.07[1]	4.80[2]	6.24[2]	9.12[3]
16	12	2.49[1]	3.46[1]	4.48[2]	5.22[2]	7.13[3]	3.62[2]	4.86[2]	5.74[2]	7.06[3]	9.52[3]
	16	1.68[1]	2.56[1]	3.48[1]	4.08[2]	5.87[2]	2.66[1]	3.81[1]	4.50[2]	5.73[2]	8.06[3]
	24	0.29[1]	1.03[1]	1.78[1]	2.13[1]	3.72[1]	1.03[1]	2.01[1]	2.38[1]	3.43[1]	5.56[2]
18	12	1.48[1]	2.21[1]	2.98[1]	3.51[1]	4.96[2]	2.30[1]	3.25[1]	3.85[2]	4.89[2]	6.78[2]
	16	0.73[1]	1.38[1]	2.06[1]	2.45[1]	3.80[1]	1.42[1]	2.28[1]	2.70[1]	3.64[1]	5.42[2]
	24			0.49[1]	0.64[1]	1.81[1]		0.62[1]	0.75[1]	1.50[1]	3.11[1]
20	12	0.78[1]	1.33[1]	1.92[1]	2.27[1]	3.40[1]	1.37[1]	2.10[1]	2.50[1]	3.30[1]	4.80[2]
	16		0.57[1]	1.06[1]	1.29[1]	2.33[1]	0.56[1]	1.20[1]	1.44[1]	2.14[1]	3.54[1]
	24					0.50[1]				0.16[1]	1.39[1]

70 psf Factored Lateral Load — 362S-400S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	362S162	362S200	362S250	362S300	362S350	400S162	400S200	400S250	400S300	400S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	11.7	14.4	16.8	19.0	24.9	13.9	17.0	19.6	22.4	28.8
	16	10.9	13.5	16.0	18.1	23.8	13.1	16.1	18.6	21.4	27.7
	24	9.40[4]	11.9	14.3	16.2	21.8	11.6	14.5	16.8	19.5	25.7
9	12	10.1	12.5	14.8	16.8	22.1	12.4	15.2	17.5	20.2	26.0
	16	9.20	11.6	13.8	15.7	20.8	11.4	14.2	16.4	19.0	24.8
	24	7.50[3]	9.75[3]	11.9[4]	13.6	18.4	9.63[4]	12.3	14.2	16.8	22.4
10	12	8.52[4]	10.7	12.8	14.6	19.2	10.7	13.3	15.4	17.9	23.2
	16	7.52[3]	9.61[4]	11.7	13.3	17.8	9.66[4]	12.2	14.1	16.5	21.7
	24	5.72[2]	7.68[3]	9.61[3]	11.0[3]	15.2[4]	7.72[3]	10.1[3]	11.7[4]	14.0	19.0
12	12	5.63[3]	7.29[3]	8.98[3]	10.3[4]	13.8	7.58[3]	9.65[4]	11.2	13.3	17.5
	16	4.61[2]	6.18[3]	7.78[3]	8.96[3]	12.3[3]	6.42[3]	8.38[3]	9.77[3]	11.8[4]	15.8
	24	2.83[1]	4.24[2]	5.67[2]	6.58[2]	9.59[3]	4.37[2]	6.17[2]	7.20[3]	9.05[3]	12.8[3]
14	12	3.51[2]	4.75[2]	6.03[3]	7.00[3]	9.49[3]	4.98[2]	6.56[3]	7.70[3]	9.36[3]	12.6[4]
	16	2.55[1]	3.69[1]	4.88[2]	5.68[2]	8.02[3]	3.85[2]	5.33[2]	6.26[2]	7.82[3]	10.9[3]
	24	0.90[1]	1.88[1]	2.88[1]	3.40[1]	5.50[2]	1.93[1]	3.21[1]	3.78[1]	5.15[2]	7.93[2]
16	12	2.07[1]	3.00[1]	3.96[2]	4.63[2]	6.48[2]	3.13[1]	4.32[2]	5.10[2]	6.38[2]	8.77[3]
	16	1.19[1]	2.02[1]	2.88[1]	3.39[1]	5.11[2]	2.09[1]	3.17[1]	3.75[1]	4.92[2]	7.18[2]
	24		0.35[1]	1.02[1]	1.27[1]	2.77[1]	0.31[1]	1.21[1]	1.45[1]	2.42[1]	4.45[1]
18	12	1.09[1]	1.78[1]	2.51[1]	2.96[1]	4.36[1]	1.85[1]	2.75[1]	3.26[1]	4.24[2]	6.08[2]
	16	0.28[1]	0.88[1]	1.50[1]	1.81[1]	3.09[1]	0.89[1]	1.69[1]	2.01[1]	2.88[1]	4.60[1]
	24					0.94[1]				0.56[1]	2.08[1]
20	12	0.42[1]	0.94[1]	1.47[1]	1.76[1]	2.85[1]	0.95[1]	1.64[1]	1.95[1]	2.70[1]	4.15[1]
	16		0.11[1]	0.54[1]	0.69[1]	1.68[1]		0.66[1]	0.79[1]	1.44[1]	2.77[1]
	24										0.45[1]

NOTES:

[1] Deflection meets L/120 [3] Deflection meets L/360
[2] Deflection meets L/240 [4] Deflection meets L/600
If not indicated, deflection meets L/720

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

0 psf Factored Lateral Load

600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	20.7	29.1	33.8	36.7	46.0	20.7	29.6	37.4	40.7	49.8
	16	20.7	29.1	33.8	36.7	46.0	20.7	29.6	37.4	40.7	49.8
	24	20.7	29.1	33.8	36.7	46.0	20.7	29.6	37.4	40.7	49.8
9	12	20.7	28.8	33.3	36.1	45.0	20.7	29.6	37.3	40.4	49.5
	16	20.7	28.8	33.3	36.1	45.0	20.7	29.6	37.3	40.4	49.5
	24	20.7	28.8	33.3	36.1	45.0	20.7	29.6	37.3	40.4	49.5
10	12	20.7	28.3	32.6	35.4	43.9	20.7	29.6	37.0	40.1	49.1
	16	20.7	28.3	32.6	35.4	43.9	20.7	29.6	37.0	40.1	49.1
	24	20.7	28.3	32.6	35.4	43.9	20.7	29.6	37.0	40.1	49.1
12	12	20.7	26.9	30.8	33.7	41.2	20.7	29.6	36.2	39.1	48.0
	16	20.7	26.9	30.8	33.7	41.2	20.7	29.6	36.2	39.1	48.0
	24	20.7	26.9	30.8	33.7	41.2	20.7	29.6	36.2	39.1	48.0
14	12	20.7	25.0	28.6	31.8	38.1	20.7	29.6	35.0	37.8	46.5
	16	20.7	25.0	28.6	31.8	38.1	20.7	29.6	35.0	37.8	46.5
	24	20.7	25.0	28.6	31.8	38.1	20.7	29.6	35.0	37.8	46.5
16	12	19.5	22.8	26.1	29.3	34.8	20.7	29.2	33.4	36.3	44.2
	16	19.5	22.8	26.1	29.3	34.8	20.7	29.2	33.4	36.3	44.2
	24	19.5	22.8	26.1	29.3	34.8	20.7	29.2	33.4	36.3	44.2
18	12	17.5	20.4	23.4	26.3	31.3	20.7	27.7	31.5	34.6	41.7
	16	17.5	20.4	23.4	26.3	31.3	20.7	27.7	31.5	34.6	41.7
	24	17.5	20.4	23.4	26.3	31.2	20.7	27.7	31.5	34.6	41.7
20	12	15.2	17.9	20.7	23.3	27.7	20.7	25.9	29.5	32.9	39.0
	16	15.2	17.9	20.7	23.3	27.7	20.7	25.9	29.5	32.9	39.0
	24	15.2	17.9	20.7	23.3	27.7	20.7	25.9	29.5	32.9	39.0

10 psf Factored Lateral Load

600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	20.4	28.8	33.5	36.3	45.6	20.6	29.4	37.1	40.5	49.6
	16	20.4	28.7	33.4	36.2	45.5	20.5	29.3	37.1	40.4	49.5
	24	20.2	28.5	33.2	36.0	45.3	20.4	29.2	36.9	40.2	49.3
9	12	20.4	28.4	32.8	35.6	44.5	20.5	29.3	36.9	40.1	49.1
	16	20.3	28.3	32.7	35.5	44.4	20.5	29.2	36.8	40.0	49.0
	24	20.1	28.1	32.4	35.2	44.0	20.4	29.0	36.6	39.8	48.8
10	12	20.3	27.8	32.0	34.8	43.3	20.5	29.2	36.6	39.6	48.6
	16	20.2	27.6	31.8	34.6	43.1	20.4	29.1	36.4	39.5	48.5
	24	19.9	27.3	31.4	34.2	42.6	20.3	28.9	36.2	39.2	48.2
12	12	20.0	26.1	29.9	32.8	40.3	20.4	29.1	35.5	38.5	47.4
	16	19.8	25.9	29.6	32.5	40.0	20.3	28.9	35.3	38.3	47.2
	24	19.4	25.4	29.0	31.9	39.3	20.0	28.5	34.9	37.9	46.7
14	12	19.6	23.9	27.3	30.4	36.8	20.2	28.8	34.1	36.9	45.6
	16	19.3	23.6	26.9	30.0	36.3	20.1	28.5	33.8	36.6	45.2
	24	18.7	22.9	26.1	29.2	35.5	19.7	28.0	33.2	36.0	44.6
16	12	18.1	21.3	24.3	27.4	32.9	20.0	28.1	32.2	35.1	42.9
	16	17.6	20.8	23.8	26.8	32.3	19.8	27.7	31.8	34.7	42.5
	24	16.8	20.0	22.7	25.8	31.2	19.3	27.0	31.0	33.9	41.7
18	12	15.6	18.5	21.2	24.0	28.9	19.7	26.2	30.0	33.0	40.0
	16	15.1	18.0	20.5	23.3	28.2	19.4	25.7	29.5	32.5	39.5
	24	14.2	17.0	19.4	22.0	26.9	18.8	24.8	28.5	31.4	38.5
20	12	13.1	15.7	18.1	20.6	24.9	19.4	24.0	27.5	30.8	36.9
	16	12.5	15.1	17.4	19.8	24.1	18.9	23.4	26.9	30.1	36.2
	24	11.6	14.0	16.1	18.5	22.7	18.1	22.3	25.7	28.9	35.0

NOTES:

[1] Deflection meets L/120 [3] Deflection meets L/360

[2] Deflection meets L/240 [4] Deflection meets L/600

If not indicated, deflection meets L/720

BMAXX FRAMING SYSTEM
SUPERSPAN™ HEADERS & JOISTS

COMBINED AXIAL AND LATERAL LOAD TABLE
Limiting Factored Axial Compressive Resistance Per Stud (kip)

20 psf Factored Lateral Load — 600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	20.2	28.5	33.2	36.0	45.3	20.4	29.2	36.9	40.2	49.3
	16	20.1	28.3	32.9	35.8	45.0	20.4	29.0	36.7	40.0	49.1
	24	19.8	27.9	32.5	35.3	44.5	20.2	28.8	36.4	39.7	48.8
9	12	20.1	28.1	32.4	35.2	44.0	20.4	29.0	36.6	39.8	48.8
	16	19.9	27.8	32.1	34.9	43.7	20.2	28.9	36.4	39.5	48.6
	24	19.5	27.3	31.5	34.3	43.1	20.0	28.5	36.0	39.1	48.1
10	12	19.9	27.3	31.4	34.2	42.6	20.3	28.9	36.2	39.2	48.2
	16	19.6	27.0	31.0	33.8	42.3	20.1	28.7	35.9	39.0	47.9
	24	19.1	26.4	30.3	33.1	41.5	19.8	28.2	35.4	38.4	47.4
12	12	19.4	25.4	29.0	31.9	39.3	20.0	28.5	34.9	37.9	46.7
	16	19.0	24.9	28.4	31.3	38.8	19.8	28.2	34.5	37.4	46.3
	24	18.2	24.0	27.3	30.2	37.6	19.4	27.5	33.7	36.6	45.5
14	12	18.7	22.9	26.1	29.2	35.5	19.7	28.0	33.2	36.0	44.6
	16	18.1	22.2	25.3	28.4	34.7	19.4	27.5	32.6	35.5	44.0
	24	17.0	21.0	23.8	26.8	33.1	18.8	26.5	31.5	34.3	42.9
16	12	16.8	20.0	22.7	25.8	31.2	19.3	27.0	31.0	33.9	41.7
	16	16.0	19.1	21.8	24.7	30.2	18.9	26.3	30.3	33.1	40.9
	24	14.6	17.7	20.0	22.9	28.3	18.0	24.9	28.8	31.6	39.4
18	12	14.2	17.0	19.4	22.0	26.9	18.8	24.8	28.5	31.4	38.5
	16	13.3	16.0	18.3	20.9	25.7	18.2	23.9	27.5	30.5	37.5
	24	11.8[4]	14.4	16.4	18.8	23.6	17.1	22.2	25.8	28.6	35.5
20	12	11.6	14.0	16.1	18.5	22.7	18.1	22.3	25.7	28.9	35.0
	16	10.7	13.1	15.0	17.3	21.5	17.4	21.3	24.6	27.7	33.8
	24	9.22[3]	11.5[4]	13.1[4]	15.2	19.3	15.9	19.4	22.5	25.5	31.5

30 psf Factored Lateral Load — 600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	20.0	28.2	32.8	35.6	44.9	20.3	29.0	36.6	39.9	49.0
	16	19.8	27.9	32.5	35.3	44.5	20.2	28.8	36.4	39.7	48.8
	24	19.3	27.4	31.8	34.6	43.8	19.9	28.3	35.9	39.2	48.3
9	12	19.8	27.7	31.9	34.7	43.6	20.2	28.8	36.3	39.4	48.5
	16	19.5	27.3	31.5	34.3	43.1	20.0	28.5	36.0	39.1	48.1
	24	18.9	26.6	30.6	33.4	42.2	19.7	28.0	35.3	38.4	47.5
10	12	19.5	26.8	30.8	33.6	42.1	20.0	28.6	35.8	38.8	47.8
	16	19.1	26.4	30.3	33.1	41.5	19.8	28.2	35.4	38.4	47.4
	24	18.4	25.4	29.2	31.9	40.3	19.4	27.5	34.6	37.6	46.5
12	12	18.8	24.7	28.2	31.0	38.5	19.7	28.0	34.3	37.2	46.1
	16	18.2	24.0	27.3	30.2	37.6	19.4	27.5	33.7	36.6	45.5
	24	17.1	22.6	25.8	28.6	35.9	18.7	26.5	32.5	35.4	44.2
14	12	17.8	21.9	24.9	28.0	34.3	19.3	27.3	32.4	35.2	43.8
	16	17.0	21.0	23.8	26.8	33.1	18.8	26.5	31.5	34.3	42.9
	24	15.4	19.2	21.8	24.7	30.9	17.9	25.1	29.9	32.7	41.1
16	12	15.6	18.8	21.3	24.3	29.7	18.7	25.9	29.9	32.7	40.5
	16	14.6	17.7	20.0	22.9	28.3	18.0	24.9	28.8	31.6	39.4
	24	12.7[4]	15.7	17.7	20.4	25.7	16.8	23.0	26.8	29.5	37.2
18	12	12.91	15.6	17.8	20.3	25.2	17.9	23.5	27.1	30.0	37.0
	16	11.8[4]	14.4	16.4	18.8	23.6	17.1	22.2	25.8	28.6	35.5
	24	9.87[3]	12.3[3]	13.9[4]	16.2	20.8	15.5	19.9	23.3	26.0	32.8
20	12	10.3[4]	12.7	14.5	16.7	20.9	17.0	20.8	24.1	27.1	33.2
	16	9.22[3]	11.5[4]	13.1[4]	15.2	19.3	15.9	19.4	22.5	25.5	31.5
	24	7.34[2]	9.41[3]	10.7[3]	12.5[3]	16.4[4]	14.0[4]	16.8	19.8	22.5	28.4

NOTES:
[1] Deflection meets L/120
[2] Deflection meets L/240
[3] Deflection meets L/360
[4] Deflection meets L/600
If not indicated, deflection meets L/720

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

40 psf Factored Lateral Load — 600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	19.8	27.9	32.5	35.3	44.5	20.2	28.8	36.4	39.7	48.8
	16	19.5	27.6	32.0	34.8	44.1	20.0	28.5	36.1	39.3	48.4
	24	18.9	26.8	31.1	33.9	43.1	19.6	27.9	35.4	38.7	47.8
9	12	19.5	27.3	31.5	34.3	43.1	20.0	28.5	36.0	39.1	48.1
	16	19.1	26.8	30.9	33.7	42.5	19.8	28.2	35.6	38.7	47.7
	24	18.3	25.8	29.7	32.5	41.3	19.3	27.4	34.7	37.8	46.8
10	12	19.1	26.4	30.3	33.1	41.5	19.8	28.2	35.4	38.4	47.4
	16	18.7	25.8	29.5	32.3	40.7	19.5	27.8	34.8	37.9	46.8
	24	17.7	24.5	28.1	30.8	39.2	19.0	26.9	33.8	36.8	45.7
12	12	18.2	24.0	27.3	30.2	37.6	19.4	27.5	33.7	36.6	45.5
	16	17.5	23.1	26.3	29.1	36.5	18.9	26.8	32.9	35.8	44.7
	24	16.0	21.3	24.2	27.0	34.3	18.1	25.5	31.4	34.2	43.0
14	12	17.0	21.0	23.8	26.8	33.1	18.8	26.5	31.5	34.3	42.9
	16	15.9	19.8	22.4	25.4	31.6	18.2	25.5	30.4	33.2	41.7
	24	13.9	17.6	19.9	22.7	28.8	17.0	23.6	28.3	31.1	39.5
16	12	14.6	17.7	20.0	22.9	28.3	18.0	24.9	28.8	31.6	39.4
	16	13.3	16.3	18.5	21.2	26.5	17.2	23.6	27.4	30.2	37.9
	24	11.1[3]	13.9[3]	15.6[4]	18.1	23.4	15.6	21.1	24.8	27.4	35.0
18	12	11.8[4]	14.4	16.4	18.8	23.6	17.1	22.2	25.8	28.6	35.5
	16	10.5[3]	13.0[4]	14.7	17.0	21.7	16.0	20.7	24.1	26.8	33.7
	24	8.18[2]	10.5[3]	11.8[3]	13.8[3]	18.3[4]	14.0	17.8	21.0	23.6	30.3
20	12	9.22[3]	11.5[4]	13.1[4]	15.2	19.3	15.9	19.4	22.5	25.5	31.5
	16	7.93[3]	10.1[3]	11.4[3]	13.3[4]	17.3[4]	14.6	17.6	20.6	23.5	29.4
	24	5.72[2]	7.64[2]	8.55[2]	10.2[3]	14.0[3]	12.2[3]	14.5[4]	17.2[4]	19.8	25.6

50 psf Factored Lateral Load — 600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	19.6	27.7	32.1	35.0	44.2	20.0	28.5	36.2	39.4	48.5
	16	19.2	27.2	31.6	34.4	43.6	19.8	28.2	35.7	39.0	48.1
	24	18.5	26.3	30.4	33.2	42.4	19.4	27.5	34.9	38.2	47.2
9	12	19.2	26.9	31.0	33.8	42.6	19.8	28.2	35.7	38.8	47.8
	16	18.7	26.3	30.3	33.1	41.9	19.5	27.8	35.1	38.2	47.3
	24	17.8	25.1	28.9	31.6	40.4	19.0	26.9	34.1	37.1	46.2
10	12	18.8	25.9	29.7	32.5	40.9	19.6	27.9	35.0	38.0	46.9
	16	18.2	25.1	28.8	31.6	39.9	19.2	27.3	34.3	37.3	46.3
	24	17.0	23.7	27.0	29.8	38.0	18.5	26.2	33.0	36.0	44.9
12	12	17.7	23.3	26.5	29.4	36.7	19.0	27.0	33.1	36.0	44.9
	16	16.7	22.2	25.2	28.0	35.4	18.5	26.1	32.2	35.0	43.8
	24	15.0	20.1	22.8	25.5	32.7	17.4	24.5	30.2	33.1	41.8
14	12	16.2	20.1	22.8	25.7	32.0	18.3	25.8	30.7	33.5	42.0
	16	14.9	18.7	21.1	24.0	30.2	17.6	24.6	29.4	32.1	40.6
	24	12.6[4]	16.1[4]	18.2	20.8	26.9	16.1	22.3	26.8	29.5	37.8
16	12	13.6	16.6	18.8	21.6	27.0	17.4	23.9	27.8	30.5	38.3
	16	12.2[4]	15.0[4]	17.0	19.6	24.9	16.4	22.4	26.1	28.8	36.4
	24	9.58[3]	12.3[3]	13.7[3]	16.1[4]	21.2	14.4	19.4	22.9	25.5	33.0
18	12	10.8[3]	13.3[4]	15.1	17.5	22.1	16.3	21.1	24.5	27.3	34.2
	16	9.28[3]	11.7[3]	13.2[3]	15.4[4]	19.9	15.0	19.2	22.5	25.2	32.0
	24	6.67[2]	8.86[2]	9.86[3]	11.7[3]	16.1[3]	12.5[3]	15.8[4]	18.8	21.3	27.9
20	12	8.24[3]	10.4[3]	11.8[3]	13.8[4]	17.8	14.9	18.0	21.1	24.0	29.9
	16	6.78[2]	8.80[3]	9.92[3]	11.7[3]	15.6[3]	13.3[4]	16.0	18.9	21.6	27.5
	24	4.28[1]	6.06[2]	6.68[2]	8.16[2]	11.8[3]	10.5[3]	12.4[3]	14.9[3]	17.3[4]	23.0

NOTES:

[1] Deflection meets L/120
[2] Deflection meets L/240
[3] Deflection meets L/360
[4] Deflection meets L/600
If not indicated, deflection meets L/720

BMAXX FRAMING SYSTEM SUPERSPAN™ HEADERS & JOISTS

COMBINED AXIAL AND LATERAL LOAD TABLE

Limiting Factored Axial Compressive Resistance Per Stud (kip)

60 psf Factored Lateral Load

600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	19.3	27.4	31.8	34.6	43.8	19.9	28.3	35.9	39.2	48.3
	16	18.9	26.8	31.1	33.9	43.1	19.6	27.9	35.4	38.7	47.8
	24	18.0	25.7	29.8	32.6	41.7	19.1	27.1	34.4	37.7	46.7
9	12	18.9	26.6	30.6	33.4	42.2	19.7	28.0	35.3	38.4	47.5
	16	18.3	25.8	29.7	32.5	41.3	19.3	27.4	34.7	37.8	46.8
	24	17.2	24.4	28.0	30.8	39.5	18.6	26.4	33.5	36.5	45.5
10	12	18.4	25.4	29.2	31.9	40.3	19.4	27.5	34.6	37.6	46.5
	16	17.7	24.5	28.1	30.8	39.2	19.0	26.9	33.8	36.8	45.7
	24	16.3	22.8	26.0	28.7	36.9	18.1	25.5	32.2	35.2	44.1
12	12	17.1	22.6	25.8	28.6	35.9	18.7	26.5	32.5	35.4	44.2
	16	16.0	21.3	24.2	27.0	34.3	18.1	25.5	31.4	34.2	43.0
	24	14.0	18.9	21.4	24.0	31.2	16.8	23.5	29.1	31.9	40.6
14	12	15.4	19.2	21.8	24.7	30.9	17.9	25.1	29.9	32.7	41.1
	16	13.9	17.6	19.9	22.7	28.8	17.0	23.6	28.3	31.1	39.5
	24	11.3[3]	14.7[3]	16.5[4]	19.1	25.1	15.2	20.9	25.3	28.0	36.2
16	12	12.7[4]	15.7	17.7	20.4	25.7	16.8	23.0	26.8	29.5	37.2
	16	11.1[3]	13.9[3]	15.6[4]	18.1	23.4	15.6	21.1	24.8	27.4	35.0
	24	8.19[2]	10.8[3]	12.0[3]	14.2[3]	19.2[4]	13.3[4]	17.7	21.1	23.6	31.0
18	12	9.87[3]	12.3[3]	13.9[4]	16.2	20.8	15.5	19.9	23.3	26.0	32.8
	16	8.18[2]	10.5[3]	11.8[3]	13.8[3]	18.3[4]	14.0	17.8	21.0	23.6	30.3
	24	5.291	7.36[2]	8.10[2]	9.81[3]	14.1[3]	11.2[3]	14.0[3]	16.8[4]	19.2[4]	25.7
20	12	7.34[2]	9.41[3]	10.7[3]	12.5[3]	16.4[4]	14.0[4]	16.8	19.8	22.5	28.4
	16	5.72[2]	7.64[2]	8.55[2]	10.2[3]	14.0[3]	12.2[3]	14.5[4]	17.2[4]	19.8	25.6
	24	2.97[1]	4.62[1]	4.98[1]	6.29[2]	9.84[2]	8.98[2]	10.4[3]	12.8[3]	15.0[3]	20.6[4]

70 psf Factored Lateral Load

600S-800S

WALL HEIGHT (ft)	STUD SPACING (in.) o.c.	600S162	600S200	600S250	600S300	600S350	800S162	800S200	800S250	800S300	800S350
		50 ksi					50 ksi				
		118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils	118 Mils
8	12	19.1	27.1	31.4	34.3	43.5	19.8	28.1	35.7	38.9	48.0
	16	18.6	26.4	30.7	33.5	42.6	19.5	27.7	35.1	38.3	47.4
	24	17.6	25.2	29.1	31.9	41.0	18.8	26.7	34.0	37.2	46.2
9	12	18.6	26.2	30.1	32.9	41.7	19.5	27.7	35.0	38.1	47.1
	16	18.0	25.4	29.1	31.9	40.7	19.1	27.1	34.3	37.4	46.4
	24	16.7	23.7	27.2	29.9	38.6	18.3	25.8	32.8	35.9	44.8
10	12	18.0	25.0	28.6	31.4	39.7	19.2	27.2	34.2	37.2	46.1
	16	17.2	23.9	27.4	30.1	38.4	18.7	26.4	33.2	36.2	45.2
	24	15.6	21.9	25.0	27.7	35.8	17.7	24.9	31.4	34.4	43.2
12	12	16.6	22.0	25.0	27.8	35.1	18.4	26.0	32.0	34.8	43.6
	16	15.3	20.5	23.3	26.0	33.2	17.6	24.8	30.6	33.4	42.2
	24	13.0[4]	17.8	20.1	22.6	29.7	16.2	22.5	28.0	30.8	39.4
14	12	14.64	18.4	20.8	23.7	29.8	17.4	24.3	29.1	31.9	40.3
	16	13.0[4]	16.6	18.7	21.4	27.5	16.4	22.7	27.3	30.0	38.4
	24	10.1[3]	13.4[3]	15.0[3]	17.4[4]	23.3	14.3	19.6	23.9	26.5	34.7
16	12	11.9[3]	14.7[4]	16.6	19.2	24.5	16.2	22.1	25.8	28.4	36.1
	16	10.1[3]	12.8[3]	14.3[3]	16.7[4]	21.9	14.8	20.0	23.5	26.1	33.7
	24	6.89[2]	9.35[2]	10.3[3]	12.4[3]	17.3[3]	12.2[3]	16.2[4]	19.4	21.8	29.1
18	12	9.00[3]	11.4[3]	12.8[3]	15.0[4]	19.5	14.7	18.8	22.1	24.8	31.6
	16	7.16[2]	9.39[2]	10.5[3]	12.4[3]	16.8[3]	13.0[4]	16.5[4]	19.5	22.1	28.7
	24	4.01[1]	5.97[1]	6.46[2]	8.02[2]	12.2[3]	9.91[3]	12.2[3]	14.9[3]	17.1[4]	23.6[4]
20	12	6.51[2]	8.50[2]	9.57[3]	11.3[3]	15.2[3]	13.0[4]	15.6[4]	18.5	21.1	27.0
	16	4.75[1]	6.57[2]	7.29[2]	8.82[2]	12.5[3]	11.1[3]	13.0[3]	15.7[3]	18.1[4]	23.9
	24	1.76[1]	3.28[1]	3.41[1]	4.56[1]	8.00[2]	7.54[2]	8.54[2]	10.8[3]	12.8[3]	18.3[3]

NOTES:

[1] Deflection meets L/120
[2] Deflection meets L/240
[3] Deflection meets L/360
[4] Deflection meets L/600
If not indicated, deflection meets L/720

FLOOR JOIST LOAD TABLES

TABLE NOTES:

1. Load values are based on continuous support of the compression flange over the full length of the joist, and the tension flange is laterally braced at a maximum spacing of 8’-0”.
2. Joists must be braced against rotation at all supports.
3. End shear and web crippling resistances are not reduced for punchouts.
4. End web crippling check is based on a 3.5” bearing length. Where load values are followed by (*), web stiffeners are required at end supports.

Bridging Recommendations

Bracing components shall be designed based on Section C2 of S136-16 with the minimum required number of rows as shown below. Additional bridging rows may be required by design.

	Minimum Number
Span(ft)	of Rows
up ot 16	1 at mid span
16 to 24	2 at 1/3 point
24 to 32	3 at 1/4 point
32 to 40	4 at 1/5 point

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (psf) with $K_{\phi} = 0$ — 600S

Strength - Factored Loads — L/360 - Specified Loads

SPAN (ft)	SECTION DESIGN CRITERIA (in.) o.c.	600S162-118			600S200-118			600S250-118			600S300-118			600S350-118		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
8	Strength															
	L/360															
9	Strength			423			481			465			493			
	L/360			169			198			230			262			
10	Strength			343			390			376			400			486*
	L/360			123			144			168			191			224
11	Strength		425	283		483	322		466	311		495	330			402
	L/360		138	92		163	108		189	126		215	143			168
12	Strength	476	357	238		406	270		392	261		416	277			337
	L/360	142	107	71		125	83		146	97		166	110			130
13	Strength	406	304	203	461	346	230	445	334	222	473	355	236		431	287
	L/360	112	84	56	131	98	65	153	114	76	174	130	87		153	102
14	Strength	350	262	175	397	298	198	384	288	192	408	306	204	496	372	248
	L/360	89	67	44	105	79	52	122	91	61	139	104	69	163	122	81
15	Strength	305	228	152	346	259	173	334	251	167	355	266	177	432	324	216
	L/360	73	54	36	85	64	42	99	74	49	113	85	56	133	99	66
16	Strength	268	201	134	304	228	152	294	220	147	312	234	156	380	285	190
	L/360	60	45	30	70	53	35	82	61	41	93	70	46	109	82	54
17	Strength	237	178	118	269	202	134	260	195	130	276	207	138	336	252	168
	L/360	50	37	25	58	44	29	68	51	34	78	58	39	91	68	45
18	Strength	211	158	105	240	180	120	232	174	116	246	185	123	300	225	150
	L/360	42	31	21	49	37	24	57	43	28	65	49	32	77	57	38
19	Strength	190	142	95	216	162	108	208	156	104	221	166	110	269	202	134
	L/360	35	26	17	42	31	21	49	36	24	55	41	27	65	49	32
20	Strength	171	128	85	195	146	97	188	141	94	200	150	100	243	182	121
	L/360	30	23	15	36	27	18	42	31	21	47	35	23	56	42	28
21	Strength	155	116	77	176	132	88	170	128	85	181	136	90	220	165	110
	L/360	26	19	13	31	23	15	36	27	18	41	31	20	48	36	24
22	Strength	141	106	70	161	120	80	155	116	77	165	123	82	201	150	100
	L/360	23	17	11	27	20	13	31	23	15	35	26	17	42	31	21
23	Strength	129	97	64	147	110	73	142	106	71	151	113	75	183	137	91
	L/360	20	15	10	23	17	11	27	20	13	31	23	15	36	27	18
24	Strength	119	89		135	101	67	130	98	65	138	104	69	168	126	84
	L/360	17	13		20	15	10	24	18	12	27	20	13	32	24	16
25	Strength	109	82		124	93		120	90	60	128	96	64	155	116	77
	L/360	15	11		18	13		21	16	10	24	18	12	28	21	14
26	Strength	101	76		115	86		111	83		118	88	59	143	107	71
	L/360	14	10		16	12		19	14		21	16	10	25	19	12
27	Strength	94			106	80		103	77		109	82		133	100	66
	L/360	12			14	11		17	12		19	14		22	17	11
28	Strength	87			99			96	72		102	76		124	93	62
	L/360	11			13			15	11		17	13		20	15	10
29	Strength	81			92			89	67		95	71		115	86	
	L/360	10			11			13	10		15	11		18	13	
30	Strength				86			83			88	66		108	81	
	L/360				10			12			14	10		16	12	

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (psf) with $K_{\phi} = 0$ — 800S

Strength - Factored Loads — **L/360 - Specified Loads**

SPAN (ft)	SECTION DESIGN CRITERIA (in.) o.c.	800S162-118			800S200-118			800S250-118			800S300-118			800S350-118		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
8	Strength															
	L/360															
9	Strength															
	L/360															
10	Strength						496*									
	L/360						290									
11	Strength			435*			410			443*			465*			
	L/360			188			218			249			281			
12	Strength			365			344			372			391*			474*
	L/360			145			168			192			216			252
13	Strength		467	311		440	293		476	317		500	333			404*
	L/360		171	114		198	132		226	151		255	170			198
14	Strength		403	268		380	253		410	273		431	287			348*
	L/360		137	91		158	105		181	121		204	136			159
15	Strength	468	351	234	441	331	220	477	357	238	500	375	250		455	303
	L/360	148	111	74	172	129	86	196	147	98	221	166	110		194	129
16	Strength	411	308	205	388	291	194	419	314	209	440	330	220		400	266
	L/360	122	91	61	141	106	70	162	121	81	182	137	91		160	106
17	Strength	364	273	182	343	257	171	371	278	185	389	292	194	472	354	236
	L/360	102	76	51	118	88	59	135	101	67	152	114	76	177	133	88
18	Strength	325	243	162	306	229	153	331	248	165	347	260	173	421	316	210
	L/360	86	64	43	99	74	49	114	85	57	128	96	64	149	112	74
19	Strength	291	218	145	275	206	137	297	222	148	312	234	156	378	283	189
	L/360	73	54	36	84	63	42	96	72	48	109	81	54	127	95	63
20	Strength	263	197	131	248	186	124	268	201	134	281	211	140	341	256	170
	L/360	62	47	31	72	54	36	83	62	41	93	70	46	109	81	54
21	Strength	238	179	119	225	168	112	243	182	121	255	191	127	309	232	154
	L/360	54	40	27	62	47	31	71	53	35	80	60	40	94	70	47
22	Strength	217	163	108	205	153	102	221	166	110	232	174	116	282	211	141
	L/360	47	35	23	54	40	27	62	46	31	70	52	35	82	61	41
23	Strength	199	149	99	187	140	93	202	152	101	212	159	106	258	193	129
	L/360	41	30	20	47	35	23	54	40	27	61	46	30	71	53	35
24	Strength	182	137	91	172	129	86	186	139	93	195	146	97	237	177	118
	L/360	36	27	18	42	31	21	48	36	24	54	40	27	63	47	31
25	Strength	168	126	84	158	119	79	171	128	85	180	135	90	218	164	109
	L/360	32	24	16	37	27	18	42	31	21	47	35	23	55	41	27
26	Strength	155	116	77	146	110	73	158	119	79	166	125	83	202	151	101
	L/360	28	21	14	33	24	16	37	28	18	42	31	21	49	37	24
27	Strength	144	108	72	136	102	68	147	110	73	154	115	77	187	140	93
	L/360	25	19	12	29	22	14	33	25	16	38	28	19	44	33	22
28	Strength	134	100	67	126	95	63	136	102	68	143	107	71	174	130	87
	L/360	22	17	11	26	19	13	30	22	15	34	25	17	39	29	19
29	Strength	125	93	62	118	88	59	127	95	63	133	100	66	162	121	81
	L/360	20	15	10	23	17	11	27	20	13	30	23	15	35	26	17
30	Strength	117	87		110	82	55	119	89	59	125	93	62	151	113	75
	L/360	18	13		21	16	10	24	18	12	27	20	13	32	24	16

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

BMAXX FRAMING SYSTEM — SUPERSPAN™ HEADERS & JOISTS

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (psf) with $K_\phi = 0$ — 1000S

Strength - Factored Loads — L/360 - Specified Loads

SPAN (ft)	SECTION DESIGN CRITERIA (in.) o.c.	1000S162-118			1000S200-118			1000S250-118			1000S300-118			1000S350-118		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
10	Strength															
	L/360															
11	Strength			473*												
	L/360			330												
12	Strength			398*			453*			486*						
	L/360			254			290			329						
13	Strength			339			386*			414*			431*			
	L/360			200			228			258			288			
14	Strength		438	292		500*	333*			357*			372*			450*
	L/360		240	160		274	183			207			231			268
15	Strength		382	254		435	290		466*	311*		486*	324*			392*
	L/360		195	130		223	148		252	168		282	188			218
16	Strength	447	335	223		382	255		410	273		427*	285*			345*
	L/360	214	161	107		184	122		208	138		232	154			179
17	Strength	396	297	198	452	339	226	484	363	242		378	252		458*	305*
	L/360	179	134	89	204	153	102	231	173	115		193	129		224	149
18	Strength	353	265	176	403	302	201	432	324	216	450	337	225		408*	272*
	L/360	150	113	75	172	129	86	195	146	97	217	163	108		189	126
19	Strength	317	238	158	361	271	180	387	290	193	404	303	202	489*	367*	244*
	L/360	128	96	64	146	109	73	165	124	82	185	138	92	214	161	107
20	Strength	286	214	143	326	244	163	350	262	175	365	273	182	441	331	220
	L/360	109	82	54	125	94	62	142	106	71	158	119	79	184	138	92
21	Strength	260	195	130	296	222	148	317	238	158	331	248	165	400	300	200
	L/360	95	71	47	108	81	54	122	92	61	137	102	68	159	119	79
22	Strength	236	177	118	269	202	134	289	216	144	301	226	150	365	273	182
	L/360	82	61	41	94	70	47	106	80	53	119	89	59	138	103	69
23	Strength	216	162	108	247	185	123	264	198	132	275	206	137	333	250	166
	L/360	72	54	36	82	61	41	93	70	46	104	78	52	121	90	60
24	Strength	199	149	99	226	170	113	243	182	121	253	190	126	306	230	153
	L/360	63	47	31	72	54	36	82	61	41	91	68	45	106	79	53
25	Strength	183	137	91	209	156	104	224	168	112	233	175	116	282	211	141
	L/360	56	42	28	64	48	32	72	54	36	81	60	40	94	70	47
26	Strength	169	127	84	193	144	96	207	155	103	215	161	107	261	196	130
	L/360	50	37	25	57	42	28	64	48	32	72	54	36	83	62	41
27	Strength	157	117	78	179	134	89	192	144	96	200	150	100	242	181	121
	L/360	44	33	22	51	38	25	57	43	28	64	48	32	74	56	37
28	Strength	146	109	73	166	125	83	178	133	89	186	139	93	225	169	112
	L/360	40	30	20	45	34	22	51	38	25	57	43	28	67	50	33
29	Strength	136	102	68	155	116	77	166	124	83	173	130	86	210	157	105
	L/360	36	27	18	41	30	20	46	34	23	52	39	26	60	45	30
30	Strength	127	95	63	145	108	72	155	116	77	162	121	81	196	147	98
	L/360	32	24	16	37	27	18	42	31	21	47	35	23	54	40	27
31	Strength	119	89	59	135	101	67	145	109	72	151	113	75	183	137	91
	L/360	29	22	14	33	25	16	38	28	19	42	31	21	49	37	24
32	Strength	111	83	55	127	95	63	136	102	68	142	106	71	172	129	86
	L/360	26	20	13	30	23	15	34	26	17	38	29	19	44	33	22

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (psf) with $K_\phi = 0$ — 1200S

Strength - Factored Loads — **L/360 - Specified Loads**

SPAN (ft)	SECTION DESIGN CRITERIA (in.) o.c.	1200S162-118			1200S200-118			1200S250-118			1200S300-118			1200S350-118		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
12	Strength			486*												
	L/360			405												
13	Strength			414*			475*									
	L/360			319			360									
14	Strength			357*			409*			438*			459*			
	L/360			255			288			323			358			
15	Strength		466*	311*			357*			382*			400*			482*
	L/360		311	207			234			263			291			335
16	Strength		410	273		470*	313*			335*			351*			424*
	L/360		256	171		290	193			216			240			276
17	Strength	484	363	242		416*	277*		446*	297*		467*	311*			376*
	L/360	285	214	142		242	161		271	180		300	200			230
18	Strength	432	324	216	495*	371*	247*		398*	265*		416*	277*			335*
	L/360	240	180	120	271	203	135		228	152		253	168			194
19	Strength	387	290	193	445	333	222	476*	357*	238*	498*	373*	249*		451*	301*
	L/360	204	153	102	231	173	115	258	194	129	286	215	143		247	165
20	Strength	350	262	175	401	301	200	430	322	215	450*	337*	225*		407*	271*
	L/360	175	131	87	198	148	99	222	166	111	245	184	122		212	141
21	Strength	317	238	158	364	273	182	390	292	195	408	306	204	492*	369*	246*
	L/360	151	113	75	171	128	85	191	143	95	212	159	106	244	183	122
22	Strength	289	216	144	331	248	165	355	266	177	371	278	185	449*	336*	224*
	L/360	131	98	65	148	111	74	166	125	83	184	138	92	212	159	106
23	Strength	264	198	132	303	227	151	325	243	162	340	255	170	410*	308*	205*
	L/360	115	86	57	130	97	65	146	109	73	161	121	80	186	139	93
24	Strength	243	182	121	278	209	139	298	223	149	312	234	156	377*	282*	188*
	L/360	101	76	50	114	86	57	128	96	64	142	106	71	164	123	82
25	Strength	224	168	112	257	192	128	275	206	137	288	216	144	347	260	173
	L/360	89	67	44	101	76	50	113	85	56	125	94	62	145	108	72
26	Strength	207	155	103	237	178	118	254	190	127	266	199	133	321	241	160
	L/360	79	59	39	90	67	45	101	75	50	111	83	55	129	96	64
27	Strength	192	144	96	220	165	110	235	176	117	246	185	123	298	223	149
	L/360	71	53	35	80	60	40	90	67	45	99	74	49	115	86	57
28	Strength	178	133	89	204	153	102	219	164	109	229	172	114	277	207	138
	L/360	63	47	31	72	54	36	80	60	40	89	67	44	103	77	51
29	Strength	166	124	83	191	143	95	204	153	102	214	160	107	258	193	129
	L/360	57	43	28	65	48	32	72	54	36	80	60	40	92	69	46
30	Strength	155	116	77	178	133	89	191	143	95	200	150	100	241	181	120
	L/360	51	38	25	58	44	29	65	49	32	72	54	36	83	62	41
31	Strength	145	109	72	167	125	83	178	134	89	187	140	93	226	169	113
	L/360	47	35	23	53	39	26	59	44	29	66	49	33	76	57	38
32	Strength	136	102	68	156	117	78	167	125	83	175	131	87	212	159	106
	L/360	42	32	21	48	36	24	54	40	27	60	45	30	69	51	34
33	Strength	128	96	64	147	110	73	157	118	78	165	123	82	199	149	99
	L/360	39	29	19	44	33	22	49	37	24	54	41	27	63	47	31
34	Strength	121	90	60	138	104	69	148	111	74	155	116	77	188	141	94
	L/360	35	26	17	40	30	20	45	33	22	50	37	25	57	43	28
35	Strength	114	85	57	131	98	65	140	105	70	146	110	73	177	133	88
	L/360	32	24	16	36	27	18	41	31	20	45	34	22	52	39	26
36	Strength	108	81	54	123	92	61	132	99	66	138	104	69	167	125	83
	L/360	30	22	15	33	25	16	38	28	19	42	31	21	48	36	24
37	Strength	102	76	51	117	88	58	125	94	62	131	98	65	158	119	79
	L/360	27	20	13	31	23	15	35	26	17	38	29	19	44	33	22
38	Strength	96	72	48	111	83	55	119	89	59	124	93	62	150	112	75
	L/360	25	19	12	28	21	14	32	24	16	35	26	17	41	30	20

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.
2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

BMAXX FRAMING SYSTEM SUPERSPAN™ HEADERS & JOISTS

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (psf) with $K_{\phi} = 0$ — 1400S

Strength - Factored Loads — L/360 - Specified Loads

SPAN (ft)	SECTION DESIGN CRITERIA (in.) o.c.	1400S162-118			1400S200-118			1400S250-118			1400S300-118			1400S350-118		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
14	Strength			414*			481*									
	L/360			377			423									
15	Strength			361*			419*			451*			474*			
	L/360			307			344			383			421			
16	Strength		476*	317*			368*			397*			416*			
	L/360		379	253			283			315			347			
17	Strength		422*	281*		489*	326*			351*			369*			446*
	L/360		316	211		354	236			263			289			333
18	Strength		376*	251*		436*	291*		470*	313*		493*	329*			398*
	L/360		266	177		299	199		332	221		366	244			281
19	Strength	450	337	225		391*	261*		422*	281*		443*	295*			357*
	L/360	302	226	151		254	169		282	188		311	207			239
20	Strength	406	304	203	471*	353*	235*		381*	254*		399*	266*		483*	322*
	L/360	259	194	129	290	217	145		242	161		266	177		307	205
21	Strength	368	276	184	427*	320*	213*	461*	345*	230*	483*	362*	241*		438*	292*
	L/360	223	167	111	251	188	125	279	209	139	307	230	153		265	177
22	Strength	336	252	168	389	292	194	420*	315*	210*	440*	330*	220*		399*	266*
	L/360	194	146	97	218	163	109	242	182	121	267	200	133		231	154
23	Strength	307	230	153	356	267	178	384*	288*	192*	403*	302*	201*	487*	365*	243*
	L/360	170	127	85	191	143	95	212	159	106	233	175	116	269	202	134
24	Strength	282	211	141	327	245	163	353	264	176	370*	277*	185*	447*	335*	223*
	L/360	149	112	74	168	126	84	187	140	93	205	154	102	237	177	118
25	Strength	260	195	130	301	226	150	325	244	162	341	256	170	412*	309*	206*
	L/360	132	99	66	148	111	74	165	124	82	182	136	91	209	157	104
26	Strength	240	180	120	279	209	139	300	225	150	315	236	157	381*	286*	190*
	L/360	117	88	58	132	99	66	147	110	73	161	121	80	186	139	93
27	Strength	223	167	111	258	194	129	278	209	139	292	219	146	353*	265*	176*
	L/360	105	79	52	118	88	59	131	98	65	144	108	72	166	124	83
28	Strength	207	155	103	240	180	120	259	194	129	272	204	136	329*	246*	164*
	L/360	94	70	47	105	79	52	117	88	58	129	97	64	149	112	74
29	Strength	193	145	96	224	168	112	241	181	120	253	190	126	306*	230*	153*
	L/360	85	63	42	95	71	47	106	79	53	116	87	58	134	100	67
30	Strength	180	135	90	209	157	104	225	169	112	237	177	118	286	214	143
	L/360	76	57	38	86	64	43	95	71	47	105	79	52	121	91	60
31	Strength	169	126	84	196	147	98	211	158	105	221	166	110	268	201	134
	L/360	69	52	34	78	58	39	86	65	43	95	71	47	110	82	55
32	Strength	158	119	79	184	138	92	198	148	99	208	156	104	251	188	125
	L/360	63	47	31	70	53	35	78	59	39	86	65	43	100	75	50
33	Strength	149	112	74	173	129	86	186	140	93	195	146	97	236	177	118
	L/360	57	43	28	64	48	32	71	53	35	79	59	39	91	68	45
34	Strength	140	105	70	163	122	81	175	131	87	184	138	92	223	167	111
	L/360	52	39	26	59	44	29	65	49	32	72	54	36	83	62	41
35	Strength	132	99	66	154	115	77	165	124	82	174	130	87	210	157	105
	L/360	48	36	24	54	40	27	60	45	30	66	49	33	76	57	38
36	Strength	125	94	62	145	109	72	156	117	78	164	123	82	199	149	99
	L/360	44	33	22	49	37	24	55	41	27	61	45	30	70	52	35
37	Strength	118	89	59	137	103	68	148	111	74	155	116	77	188	141	94
	L/360	40	30	20	45	34	22	51	38	25	56	42	28	64	48	32
38	Strength	112	84	56	130	97	65	140	105	70	147	110	73	178	134	89
	L/360	37	28	18	42	31	21	47	35	23	51	38	25	59	44	29
39	Strength	106	80	53	124	93	62	133	100	66	140	105	70	169	127	84
	L/360	34	26	17	39	29	19	43	32	21	47	35	23	55	41	27
40	Strength	101	76	50	117	88	58	127	95	63	133	99	66	161	120	80
	L/360	32	24	16	36	27	18	40	30	20	44	33	22	51	38	25

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.
2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

FLOOR JOIST LOAD TABLE

Uniformly Distributed Single Span Loads (psf) with $K_\phi = 0$ — 1600S

Strength - Factored Loads — L/360 - Specified Loads

SPAN (ft)	SECTION DESIGN CRITERIA (in.) o.c.	1600S162-118			1600S200-118			1600S250-118			1600S300-118			1600S350-118		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
14	Strength															
	L/360															
15	Strength			407*			474*									
	L/360			426			475									
16	Strength			358*			416*			453*			479*			
	L/360			351			392			433			475			
17	Strength		475*	317*			369*			401*			424*			
	L/360		439	293			326			361			396			
18	Strength		424*	282*		493*	329*			358*			378*			457*
	L/360		370	246		413	275			304			334			381
19	Strength		380*	253*		443*	295*		481*	321*			339*			410*
	L/360		314	209		351	234		388	259			284			324
20	Strength	458*	343*	229*		399*	266*		435*	290*		459*	306*			370*
	L/360	359	269	179		301	200		333	222		365	243			278
21	Strength	415*	311*	207*	483*	362*	241*		394*	263*		417*	278*			336*
	L/360	310	233	155	346	260	173		287	191		315	210			240
22	Strength	378	284	189	440*	330*	220*	479*	359*	239*		380*	253*		459*	306*
	L/360	270	202	135	301	226	150	333	250	166		274	182		313	208
23	Strength	346	259	173	403*	302*	201*	438*	328*	219*	463*	347*	231*		420*	280*
	L/360	236	177	118	263	197	131	292	219	146	320	240	160		274	182
24	Strength	318	238	159	370*	277*	185*	402*	302*	201*	425*	319*	212*		386*	257*
	L/360	208	156	104	232	174	116	257	192	128	281	211	140		241	160
25	Strength	293	220	146	341*	256*	170	371*	278*	185*	392*	294*	196*	474*	355*	237*
	L/360	184	138	92	205	154	102	227	170	113	249	187	124	284	213	142
26	Strength	271	203	135	315	236	157	343*	257*	171*	362*	272*	181*	438*	329*	219*
	L/360	163	122	81	182	137	91	202	151	101	221	166	110	253	189	126
27	Strength	251	188	125	292	219	146	318*	238*	159*	336*	252*	168*	406*	305*	203*
	L/360	146	109	73	163	122	81	180	135	90	197	148	98	226	169	113
28	Strength	233	175	116	272	204	136	295	221	147	312*	234*	156*	378*	283*	189*
	L/360	131	98	65	146	109	73	161	121	80	177	133	88	202	151	101
29	Strength	217	163	108	253	190	126	275	206	137	291	218	145	352*	264*	176*
	L/360	118	88	59	131	98	65	145	109	72	159	119	79	182	136	91
30	Strength	203	152	101	237	177	118	257	193	128	272	204	136	329*	247*	164*
	L/360	106	79	53	118	89	59	131	98	65	144	108	72	164	123	82
31	Strength	190	143	95	221	166	110	241	181	120	255	191	127	308*	231*	154*
	L/360	96	72	48	107	80	53	119	89	59	130	98	65	149	111	74
32	Strength	179	134	89	208	156	104	226	169	113	239	179	119	289*	217*	144*
	L/360	87	65	43	98	73	49	108	81	54	118	89	59	135	101	67
33	Strength	168	126	84	195	146	97	213	159	106	225	168	112	272*	204*	136*
	L/360	80	60	40	89	67	44	98	74	49	108	81	54	123	92	61
34	Strength	158	118	79	184	138	92	200	150	100	212	159	106	256*	192*	128*
	L/360	73	54	36	81	61	40	90	67	45	99	74	49	113	84	56
35	Strength	149	112	74	174	130	87	189	142	94	200	150	100	242	181	121
	L/360	67	50	33	74	56	37	82	62	41	90	68	45	103	77	51
36	Strength	141	106	70	164	123	82	179	134	89	189	141	94	228	171	114
	L/360	61	46	30	68	51	34	76	57	38	83	62	41	95	71	47
37	Strength	133	100	66	155	116	77	169	127	84	179	134	89	216	162	108
	L/360	56	42	28	63	47	31	70	52	35	76	57	38	87	65	43
38	Strength	126	95	63	147	110	73	160	120	80	169	127	84	205	154	102
	L/360	52	39	26	58	43	29	64	48	32	71	53	35	81	60	40
39	Strength	120	90	60	140	105	70	152	114	76	161	120	80	195	146	97
	L/360	48	36	24	54	40	27	59	44	29	65	49	32	74	56	37
40	Strength	114	85	57	133	99	66	145	108	72	153	114	76	185	139	92
	L/360	44	33	22	50	37	25	55	41	27	60	45	30	69	52	34

NOTES:

* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

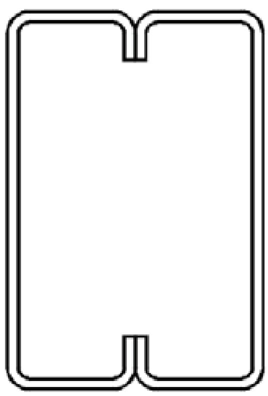
Deflection limit	Factor
L/480	360/480 = 0.75

BMAXX FRAMING SYSTEM · SUPERSPAN™ HEADERS & JOISTS

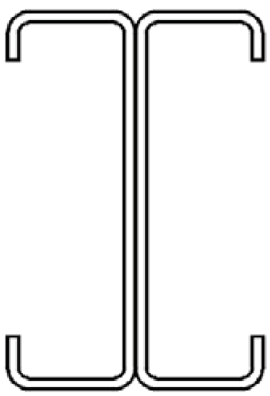
HEADER LOAD TABLES

TABLE NOTES:

1. Values are for unpunched members and are given in pounds per linear foot.
2. Headers are made from two "boxed" or back-to-back members.
3. Factored moment, shear and web crippling resistances are based on twice the resistance of a single member. The moment of inertia for deflection is based on twice the value of a single member.
4. Web crippling check is based on 1 in. of bearing at end supports.
5. Members are assumed to be adequately braced for bending.
6. Header loads are for simply supported members subjected to uniform bending loads only.



Boxed Header



Back-to-Back Header

UNIFORM DISTRIBUTED HEADER LOADS (PLF)

Strength - Factored Loads

600S-1000S

L/360 - Specified Loads

SECTION (ft)	DESIGN CRITERIA	F_y (ksi)	SPAN (ft)																
			4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
600S162-118	Strength	50	8634e	5526e	3837e	2819e	2158e	1705e	1381e	1141	959	817	704	614	539	478	426	382	345
	L/360		7605	3894	2253	1419	950	667	486	365	281	221	177	144	118	99	83	70	60
600S200-118	Strength	50	9824e	6287e	4366e	3207e	2456e	1940e	1571e	1299e	1091	930	801	698	614	543	485	435	392
	L/360		8936	4575	2647	1667	1117	784	571	429	330	260	208	169	139	116	98	83	71
600S250-118	Strength	50	10744e	6876e	4775e	3508e	2686e	2122e	1719e	1420e	1193e	1017	877	764	671	594	530	476	429
	L/360		10378	5313	3075	1936	1297	911	664	499	384	302	242	196	162	135	113	96	83
600S300-118	Strength	50	10381e	6644e	4614e	3389e	2595e	2050e	1661e	1372e	1153e	982	847	738	648	574	512	460	415
	L/360		11805	6044	3497	2202	1475	1036	755	567	437	343	275	223	184	153	129	110	94
600S350-118	Strength	50	12482e	7988e	5547e	4075e	3120e	2465e	1997e	1650e	1386e	1181e	1018e	887e	780	691	616	553	499
	L/360		13864	7098	4107	2586	1733	1217	887	666	513	403	323	262	216	180	152	129	110
800S162-118	Strength	50	13178e	8434e	5857e	4303e	3294e	2603e	2108e	1742e	1464e	1247e	1075e	937e	823e	729	650	584	527
	L/360		15478	7925	4586	2888	1934	1358	990	744	573	450	361	293	241	201	169	144	123
800S200-118	Strength	50	14772e	9454e	6565e	4823e	3693e	2918e	2363e	1953e	1641e	1398e	1205e	1050e	923e	817e	729e	654	590
	L/360		17915	9172	5308	3342	2239	1572	1146	861	663	521	417	339	279	233	196	167	143
800S250-118	Strength	50	13896e	8893e	6176e	4537e	3474e	2744e	2223e	1837e	1544e	1315e	1134e	988e	868e	769e	686	615	555
	L/360		20507	10499	6076	3826	2563	1800	1312	986	759	597	478	388	320	267	225	191	164
800S300-118	Strength	50	14584e	9334e	6482e	4762e	3646e	2880e	2333e	1928e	1620e	1380e	1190e	1037e	911e	807e	720e	646	583
	L/360		23067	11810	6834	4304	2883	2025	1476	1109	854	671	538	437	360	300	253	215	184
800S350-118	Strength	50	17468e	11179e	7763e	5703e	4367e	3450e	2794e	2309e	1940e	1653e	1425e	1242e	1091e	967e	862e	774e	698e
	L/360		26965	13806	7989	5031	3370	2367	1725	1296	998	785	628	511	421	351	295	251	215
1000S162-118	Strength	50	15031e	9620e	6680e	4908e	3757e	2969e	2405e	1987e	1670e	1423e	1227e	1068e	939e	832e	742e	666e	601
	L/360		27136	13893	8040	5063	3392	2382	1736	1304	1005	790	632	514	424	353	297	253	217
1000S200-118	Strength	50	16952e	10849e	7534e	5535e	4238e	3348e	2712e	2241e	1883e	1604e	1383e	1205e	1059e	938e	837e	751e	678e
	L/360		31015	15879	9189	5787	3876	2722	1984	1491	1148	903	723	588	484	404	340	289	248
1000S250-118	Strength	50	18121e	11597e	8053e	5917e	4530e	3579e	2899e	2396e	2013e	1715e	1479e	1288e	1132e	1003e	894e	803e	724e
	L/360		35090	17966	10397	6547	4386	3080	2245	1687	1299	1022	818	665	548	457	385	327	280
1000S300-118	Strength	50	18935e	12118e	8415e	6182e	4733e	3740e	3029e	2503e	2103e	1792e	1545e	1346e	1183e	1048e	935e	839e	757e
	L/360		39112	20025	11588	7298	4889	3433	2503	1880	1448	1139	912	741	611	509	429	364	312
1000S350-118	Strength	50	20625e	14480e	10055e	7387e	5656e	4469e	3620e	2991e	2513e	2142e	1846e	1608e	1414e	1252e	1117e	1002e	905e
	L/360		45438	23264	13463	8478	5679	3989	2908	2184	1682	1323	1059	861	709	591	498	423	363

NOTE:
"e" web stiffeners required at ends.

UNIFORM DISTRIBUTED HEADER LOADS (PLF)

Strength - Factored Loads

1200S-1600S

L/360 - Specified Loads

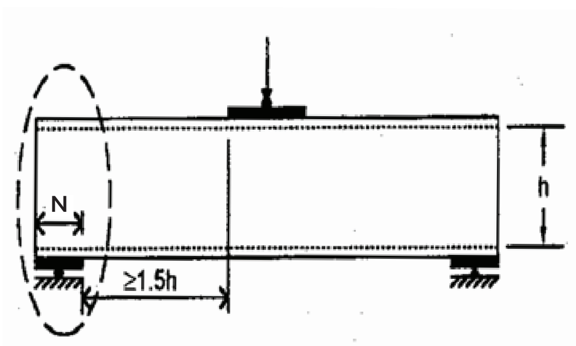
SECTION (ft)	DESIGN CRITERIA	F_y (ksi)	SPAN (ft)																
			8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1200S162-118	Strength	50	4595e	3631e	2941e	2430e	2042e	1740e	1500e	1307e	1148e	1017e	907e	814e	735e	666e	607e	555e	510
	L/360		5406	3796	2767	2079	1601	1259	1008	820	675	563	474	403	345	298	259	227	200
1200S200-118	Strength	50	5205e	4113e	3331e	2753e	2313e	1971e	1699e	1480e	1301e	1152e	1028e	922e	832e	755e	688e	629e	578e
	L/360		6112	4293	3129	2351	1811	1424	1140	927	764	637	536	456	391	337	293	257	226
1200S250-118	Strength	50	5571e	4402e	3565e	2946e	2476e	2109e	1819e	1584e	1392e	1233e	1100e	987e	891e	808e	736e	674e	619e
	L/360		6849	4810	3506	2634	2029	1596	1278	1039	856	713	601	511	438	378	329	288	253
1200S300-118	Strength	50	5824e	4602e	3727e	3080e	2588e	2205e	1901e	1656e	1456e	1289e	1150e	1032e	931e	845e	770e	704e	647e
	L/360		7576	5320	3878	2914	2244	1765	1413	1149	947	789	665	565	484	418	364	318	280
1200S350-118	Strength	50	6960e	5499e	4454e	3681e	3093e	2635e	2272e	1979e	1740e	1541e	1374e	1233e	1113e	1010e	920e	842e	773e
	L/360		8744	6141	4477	3363	2590	2037	1631	1326	1093	911	767	652	559	483	420	367	323
1400S162-118	Strength	50	5354e	4230e	3427e	2832e	2379e	2027e	1748e	1523e	1338e	1185e	1057e	949e	856e	777e	708e	647e	594e
	L/360		7987	5610	4089	3072	2366	1861	1490	1211	998	832	701	596	511	441	384	336	295
1400S200-118	Strength	50	6103e	4822e	3906e	3228e	2712e	2311e	1992e	1736e	1525e	1351e	1205e	1082e	976e	885e	807e	738e	678e
	L/360		8958	6292	4586	3446	2654	2087	1671	1359	1119	933	786	668	573	495	430	377	331
1400S250-118	Strength	50	6564e	5186e	4200e	3471e	2917e	2485e	2143e	1867e	1641e	1453e	1296e	1163e	1050e	952e	867e	794e	729e
	L/360		9964	6998	5102	3833	2952	2322	1859	1511	1245	1038	874	743	637	550	479	419	369
1400S300-118	Strength	50	6886e	5441e	4407e	3642e	3060e	2608e	2248e	1958e	1721e	1525e	1360e	1220e	1101e	999e	910e	833e	765e
	L/360		10956	7694	5609	4214	3246	2553	2044	1662	1369	1141	961	817	701	605	526	461	405
1400S350-118	Strength	50	8034e	6517e	5279e	4363e	3666e	3123e	2693e	2346e	2062e	1826e	1629e	1462e	1319e	1197e	1090e	998e	916e
	L/360		12647	8882	6475	4865	3747	2947	2359	1918	1580	1318	1110	944	809	699	608	532	468
1600S162-118	Strength	50	6042e	4774e	3867e	3195e	2685e	2288e	1973e	1718e	1510e	1338e	1193e	1071e	966e	876e	798e	731e	671e
	L/360		11091	7790	5679	4266	3286	2584	2069	1682	1386	1155	973	827	709	613	533	466	410
1600S200-118	Strength	50	6920e	5467e	4428e	3660e	3075e	2620e	2259e	1968e	1730e	1532e	1366e	1226e	1107e	1004e	915e	837e	768e
	L/360		12371	8689	6334	4759	3665	2883	2308	1876	1546	1289	1086	923	791	683	594	520	458
1600S250-118	Strength	50	6989e	5916e	4792e	3960e	3327e	2835e	2444e	2129e	1871e	1658e	1479e	1327e	1198e	1086e	990e	905e	831e
	L/360		13691	9615	7009	5266	4056	3190	2554	2077	1711	1426	1201	1022	876	756	658	576	507
1600S300-118	Strength	50	6989e	6213e	5054e	4177e	3509e	2990e	2578e	2246e	1974e	1748e	1559e	1400e	1263e	1146e	1044e	955e	877e
	L/360		14989	10527	7674	5766	4441	3493	2796	2274	1873	1562	1315	1118	959	828	720	630	555
1600S350-118	Strength	50	6989e	6213e	5591e	5022e	4220e	3596e	3100e	2701e	2374e	2102e	1875e	1683e	1519e	1378e	1255e	1148e	1055e
	L/360		17140	12038	8776	6593	5078	3994	3198	2600	2142	1786	1504	1279	1097	947	824	721	634

NOTE:
"e" web stiffeners required at ends.

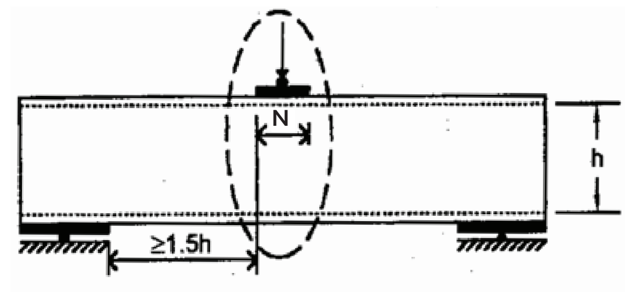
WEB CRIPPLING DATA

TABLE NOTES:

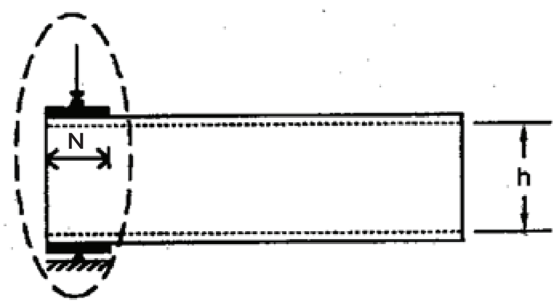
1. The factored web crippling data is based on Section G5 of S136-16.
2. For single web members, the coefficients and resistance factors are based on Table G5-2. N is the bearing length. If N/h > 2, then N can not be greater than 2h. If N/t > 210, then N can not be greater than 210t.
3. For back-to-back members, the coefficients and resistance factors are based on Table G5-1. If N/h > 1, then N can not be greater than h. If N/t > 210, then N can not be greater than 210t.
4. Coefficients and resistance factors are based on members “Fastened to Support”, except for back-to-back members under two-flange loading, the coefficients and resistance factors “Unfastened to Support” are used.
5. For back-to-back members, the distance between web connectors and flange shall be kept to a minimum.
6. Calculations are based on unperforated webs. Resistance reductions for end and interior one flange loading near punchouts can be calculated based on Section G6 of S136-16.



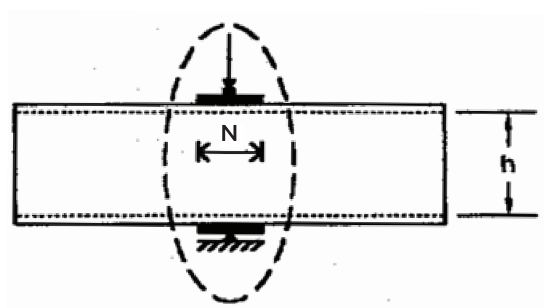
End One Flange Loading (EOF)



Interior One Flange Loading (IOF)



End Two Flange Loading (ETF)



Interior Two Flange Loading (ITF)

FACTORED WEB CRIPPLING DATA FOR SINGLE WEB MEMBERS

SECTION DEPTH (in.)	DESIGNATION CRITERIA (Mils)	DESIGN THICKNESS (in.)	F_y (ksi)	h/t	FACTORED WEB CRIPPLING DATA (lb)							
					EOF		IOF		ETF		ITF	
					P_{eo1}	P_{eo2}	P_{io1}	P_{io2}	P_{et1}	P_{et2}	P_{it1}	P_{it2}
3.625	118	0.1242	50	24.2	1729	605	5478	767	2990	359	8604	688
4.00	118	0.1242	50	27.2	1717	601	5461	765	2934	352	8511	681
6.00	118	0.1242	50	43.4	1665	583	5383	754	2677	321	8081	647
8.00	118	0.1242	50	59.4	1622	568	5318	745	2466	296	7726	618
10.0	118	0.1242	50	75.5	1584	554	5261	737	2281	274	7417	593
12.0	118	0.1242	50	91.6	1550	543	5210	729	2115	254	7140	571
14.0	118	0.1242	50	108	1519	532	5164	723	1964	236	6886	551
16.0	118	0.1242	50	124	1490	522	5121	717	1823	219	6650	532

NOTES:

1. Based on Eq. G5-1 of S136-16 and Table G5-2.
2. Factored end one flange web crippling resistance (EOF), $P_{reo} = P_{eo1} + P_{eo2}[N/t]^{1/2}$
3. Factored interior one flange web crippling resistance (IOF), $P_{rio} = P_{io1} + P_{io2}[N/t]^{1/2}$
4. Factored end two flange web crippling resistance (ETF), $P_{ret} = P_{et1} + P_{et2}[N/t]^{1/2}$
5. Factored interior two flange web crippling resistance (ITF), $P_{rit} = P_{it1} + P_{it2}[N/t]^{1/2}$

FACTORED WEB CRIPPLING DATA FOR BACK-TO-BACK WEB MEMBERS

SECTION DEPTH (in.)	DESIGNATION CRITERIA (Mils)	DESIGN THICKNESS (in.)	F_y (ksi)	h/t	FACTORED WEB CRIPPLING DATA (lb)							
					EOF		IOF		ETF		ITF	
					P_{eo1}	P_{eo2}	P_{io1}	P_{io2}	P_{et1}	P_{et2}	P_{it1}	P_{it2}
3.625	118	0.1242	50	24.2	7631	2137	18687	2056	11108	889	24024	1922
4.00	118	0.1242	50	27.2	7628	2136	18681	2055	10943	876	23667	1893
6.00	118	0.1242	50	43.4	7618	2133	18655	2052	10188	815	22034	1763
8.00	118	0.1242	50	59.4	7609	2131	18634	2050	9565	765	20686	1655
10.0	118	0.1242	50	75.5	7602	2129	18616	2048	9022	722	19511	1561
12.0	118	0.1242	50	91.6	7595	2127	18599	2046	8534	683	18456	1477
14.0	118	0.1242	50	108	7589	2125	18584	2044	8087	647	17491	1399
16.0	118	0.1242	50	124	7583	2123	18570	2043	7673	614	16595	1328

NOTES:

1. Based on Eq. G5-1 of S136-16 and Table G5-1.
2. Factored end one flange web crippling resistance (EOF), $P_{reo} = P_{eo1} + P_{eo2}[N/t]^{1/2}$
3. Factored interior one flange web crippling resistance (IOF), $P_{rio} = P_{io1} + P_{io2}[N/t]^{1/2}$
4. Factored end two flange web crippling resistance (ETF), $P_{ret} = P_{et1} + P_{et2}[N/t]^{1/2}$
5. Factored interior two flange web crippling resistance (ITF), $P_{rit} = P_{it1} + P_{it2}[N/t]^{1/2}$

COLD FORMED STEEL 118 MILS – 10 GAUGE LOAD TABLES

BAILEY®
METAL PRODUCTS LIMITED

sales@bmp-group.com • www.bmp-group.com

MONTREAL

525 Avenue Edward VII
Dorval, QC H9P 1E7
Tel. (514) 735-3455
800-263-3455
Fax. (514) 735-5052

TORONTO

1 Caldari Road
Concord, ON L4K 3Z9
Tel. (905) 738-9267
800-668-2154
Fax. (905) 738-5712

CALGARY

3924 27th Street NE
Calgary, AB T1Y 5K7
Tel. (403) 248-3536
800-665-2013
Fax. (403) 248-0288

EDMONTON

101-5710 Roper Road NW
Edmonton, AB T6B 3G7
Tel. (780) 462-5757
800-563-1751
Fax. (780) 450-3378

VANCOUVER

7715 Anvil Way
Surrey, BC V3W 6A2
Tel. (604) 590-5100
800-818-2666
Fax. (604) 590-5105