



BUILD STRONGER TOGETHER.

A HUMAN CONNECTION
YOU CAN RELY ON.





EXPLORE

Our Story	4
Our Mission	7
General Product Information	9
Overview	10
Shaftwall	13
Product Guide	21
Section Properties	29
Limiting Wall Heights	45
Axial & Lateral Loads	59
Joist Spans	77
Header Loads	95
Web Crippling Load Tables	102
U-Channel Section Properties	108
Hat Furring Channel Section Properties	112
Screws & Welds	116



Our story starts with you.

The impeccable product line we offer today grew from a simple mission—to listen to our customers. It's why we refined our process to craft products that can boost strength, durability, and precision. It's how we came to offer the full collection of steel products always in demand by our loyal customers.

In a constantly evolving industry, the OEG Building Materials product showcase continues to expand. Our products meet and exceed the industry standards established by AISI and ASTM, all while utilizing the highest level of technology and machinery. Our superb quality control system ensures that our quality is unmatched and that clients keep coming back.



At OEG, we understand that a delay is never just a delay— it's millions of dollars at stake. Our superb quality control system and unmatched personal service keep the quality high and your build on track.

With long-standing roots in the manufacturing and distribution of industrial building products, we understand the individual needs of our customers and are committed to providing first-rate products, competitive pricing, and excellent service.

OEG currently specializes in manufacturing and distributing metal studs and joists for steel framing construction. Our studs are durable, lightweight, and provide clean lines for maximum structural

stability. Their convenient cutout pattern makes it easy to let plumbing and electrical pass through, saving you serious time and labor.

With our manufacturing operations and a distribution center strategically located in Sayreville, NJ, our mission is to help suppliers and builders tackle projects of any size with the best materials available.

We always look forward to hearing from our customers and learning how we can better serve you; please feel free to email us directly at orders@oegusa.com or contact us by phone at 732.667.3636.



OUR MISSION

We help suppliers and builders tackle projects of any size with premium steel products.

Our materials are innovative and top-notch.

Go beyond design. It's not just about using high-quality materials or meeting industry standards (we do). From our signature cut-out stud pattern to our durable steel joists, everything we make is built to save our customers time and labor.

Our reputation is as strong as steel.

When you call OEG, a team member answers. We love getting to know our clients and their projects. We treat your deadline like our own and will do whatever it takes to deliver premium materials and impeccable service.





MAX. BAR CAP. 54,800

KEYSTONE E-15G-B

ATW 16

T81-CP1
NS-PD

SPRG 7 OC D5 7 1/2
36 CLASS C 1W S
AAR NO 24 BP

FOR RESTRICTED LOADING ONLY
SEE EQUIPMENT REGISTER

L50 1
14.0

DO NOT GROUND TO COUPLER WHEN

Standard Nomenclature:

OEG supports the industry standard nomenclature published in the American Iron and Steel Institute's (AISI) General Provisions, S200. All OEG products have a four-part product designator that identifies the size (both web depth and flange width), style, and mil thickness.

Nomenclature Example:

See the following demonstration to identify OEG products using their product code:



Thickness Table

THICKNESS TABLE			
DESIGNATION (MILS)	MIN. THICKNESS (IN)	DESIGN THICKNESS (IN)	REFERENCE GAGE (#)
18	0.0179	0.0188	25
27	0.0269	0.0283	22
30	0.0296	0.0312	20 (Drywall)
33	0.0329	0.0346	20 (Structural)
43	0.0428	0.0451	18
54	0.0538	0.0566	16
68	0.0677	0.0713	14
97	0.0966	0.1017	12
118	0.1180	0.1242	10

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

Stiffening Lip Length

THICKNESS TABLE		
SECTION	FLANGE WIDTH (IN)	LIP LENGTH (IN)
S125	1" 1/4	0.188
S137	1" 3/8	0.375
S162	1" 5/8	0.500
S200	2"	0.625
S250	2" 1/2	0.625
S300	3"	0.625
S350	3 1/2"	0.625

Standards & Specifications

- The values in this catalog are based on the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-07 as referenced by 2009 International Building Code (IBC), AISI S100-07 with Supplement S2-10 as referenced by 2012 IBC and AISI S100-12 as referenced by 2015 IBC.
- Where AISI S100 is referenced, it is the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-07 with Supplement S2-10 and AISI S100-12, as applicable with U.S. provisions.
- The structural properties included in this catalog have been computed based on allowable strength design (ASD) method.

Material Properties

OEG structural products meet or exceed ASTM A370, A1003, C754, E90, and E119. Structural framing is produced to meet or exceed ASTM C955. Galvanized sheet steel meets or exceeds requirements of ASTM A1003. Standard coating is G60 (G90 available).

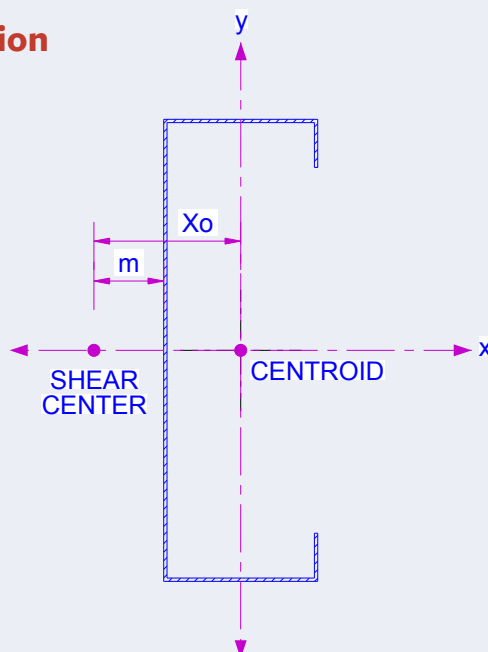
Disclaimer:

All data, detail and specifications included in herein are intended as a general guide for the using OEG Building Materials products. These products should not be used in design or construction without evaluation by a qualified engineer or architect, to determine their suitability for a specific use. OEG Building Materials assumes no liability for failure resulting from use or misapplication of computation, details or specifications contained herein. This publication contains the latest information available at the time of printing. OEG Building Materials reserves the right to make modifications and/or change materials for any of the products contained herein. Please contact OEG Building Materials for the latest information on the products contained herein. OEG Building Material assumes no liability for damages resulting from improper application or insulation of these products.

Definitions of Structural Property Symbols

GROSS PROPERTIES	
I_x	Moment of inertia of gross section about the X-axis (strong axis).
S_x	Section modulus about the X-axis (strong axis).
R_x	Radius of gyration of the gross section about the X-axis.
I_y	Moment of inertia of gross section about the Y-axis (weak axis).
R_y	Radius of gyration of the gross section about the Y-axis.
EFFECTIVE PROPERTIES	
I_{xe}	Effective moment of inertia about the X-axis.
S_{xe}	Effective section modulus about the X-axis.
M_a	Allowable Bending Moment
M_{ad}	Allowable Bending Moment (based on distortional buckling).
V_{ag}	Allowable strong axis shear away from punch-out.
V_{anet}	Allowable strong axis shear at punch-out.
TORSIONAL PROPERTIES	
J	St. Venant Torsional Constant.
C_w	Torsional warping constant.
M	Distance from shear center to mid-plane of web.
X_o	Distance from the shear center to the centroid along the principal axis.
R_o	Polar radius of gyration about the centroidal principal axis.
β	$1 - (X_o/R_o)^2$
L_u	The longest weak axis (L_y) and torsional (L_t) unbraced length.

Cross Section Illustration



DELIVERING PREMIUM MATERIALS
AND IMPECCABLE SERVICE



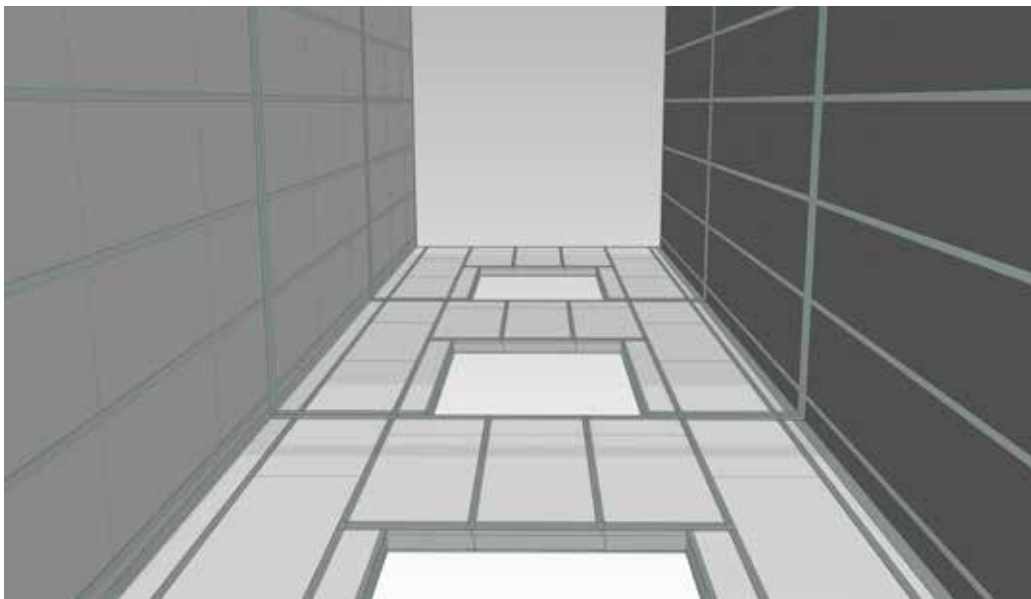


SHAFTWALL

General Product Information

OEG provides strong and efficient assemblies for the construction of Shaftwall systems. CT Stud and J-Tabbed track are engineered to be used with shaft-liners from multiple manufacturers.

Shaftwall systems consisting of light-gage steel and gypsum boards are becoming more and more popular. Compared to masonry or CMU construction, Shaftwall systems are more light-weight, quicker to assemble and cost efficient, because they reduce structural framing and foundation costs. Most common applications of Shaftwall assemblies are elevators and stairwells. Shaftwall systems also provide safety and fire protection.



OEG CT Shaftwall Stud:

OEG CT Shaftwall Stud is a rigid member engineered to maintain shaftwall integrity and are used with 1" thick gypsum shaft-liner panels from various manufactures. Gypsum shaft-liners can be easily aligned in the flanges of the CT Stud. The system should be finished with fire rated gypsum board to achieve the desired fire rating.

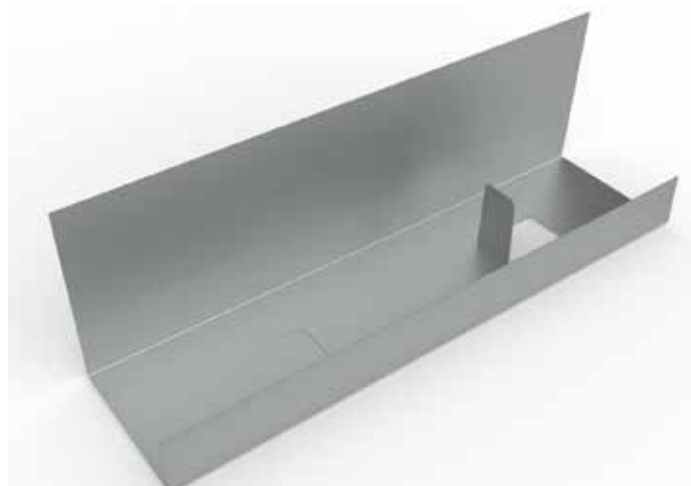
- Available in the following gages: 25 (18 mils), 20 structural (33 mils) and 18 (43 mils),
- Available sizes: 2-1/2", 4" and 6",
- Zinc-Coated (Galvanized) sheet metal meets or exceeds ASTM A653 and ASTM A1003.



OEG J-Tabbed Track:

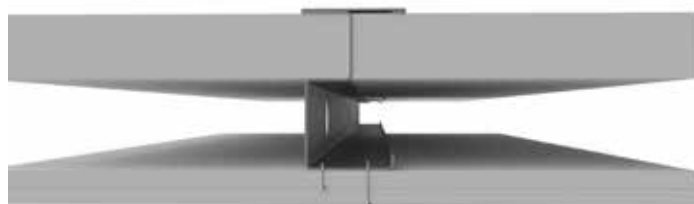
OEG J-Tabbed Track are used in conjunction with OEG CT Shaftwall Studs, which are friction fitted at top and bottom of CT Studs. The tabs in J-Tabbed track automatically allow the standard spacing of 24" O.C. J-Tabbed Track have one leg longer than the other, the longer leg is available in 2-1/4" and 3" and is installed against the shaft.

- Available in the following gages: 25 (18 mils), 20 (30 mils) & 18 (43 mils),
- Long flange sizes: 2-1/4" & 3",
- Short flange size: 1",
- Web depth sizes: 2-1/2", 4" & 6",
- Zinc-Coated (Galvanized) sheet metal meets or exceeds ASTM A653 & ASTM A1003.



Shaftwall Assemblies for Elevators:

Shaftwall assemblies for elevators consists of 1" shaftliner panels supported by CT-Studs and faced on one side with varying layers of 1/2" Type C or 5/8" Type X gypsum board:



Stairwall Assemblies for Stairs:

Stairwall assemblies for stairs consists of 1" shaftliner panels supported by CT-Studs and faced on both sides with varying layers of 1/2" Type C or 5/8" Type X gypsum board:



Disclaimer:

All data, detail and specifications included in herein are intended as a general guide for the using OEG Building Materials products. These products should not be used in design or construction without evaluation by a qualified engineer or architect, to determine their suitability for a specific use. OEG Building Materials assumes no liability for failure resulting from use or misapplication of computation, details or specifications contained herein. This publication contains the latest information available at the time of printing.

OEG Building Materials reserves the right to make modifications and/or change materials for any of the products contained herein. Please contact OEG Building Materials for the latest information on the products contained herein. OEG Building Material assumes no liability for damages resulting from improper application or insulation of these products.

Section Properties

Profile	Design thickness (in)	Minimum thickness (in)	Fy (ksi)	Weight (lb/ft)	Area (in ²)	Ix (in ⁴)	Sx (in ³)
250CTS-18	0.0188	0.0180	50	0.453	0.133	0.126	0.093
400CTS-18	0.0188	0.0180	50	0.548	0.161	0.384	0.184
250CTS-33	0.0346	0.0330	50	0.820	0.247	0.234	0.167
400CTS-33	0.0346	0.0330	50	0.993	0.298	0.703	0.320
600CTS-33	0.0346	0.0330	50	1.225	0.367	1.854	0.573
250CTS-43	0.0451	0.0430	50	1.101	0.324	0.314	0.219
400CTS-43	0.0451	0.0430	50	1.311	0.386	0.906	0.411
600CTS-43	0.0451	0.0430	50	1.623	0.476	2.388	0.738

Limiting Wall Heights:

Profile	Depth (in)	Design thickness (in)	Minimum thickness (in)	Fy (ksi)	Span Length (ft)								
					5 PSF			7.5 PSF			10 PSF		
					L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
250CTS-18	2-½"	0.0188	0.0180	50	14' 7"	11' 6"	10' 1"	12' 9"	10' 1"	8' 10"	11' 2" f	9' 1" f	8' 0"
400CTS-18	4"	0.0188	0.0180	50	18' 8"	14' 10"	13' 0"	16' 0" f	12' 11"	11' 4"	13' 10" f	11' 8"	10' 3"
250CTS-33	2-½"	0.0346	0.0330	50	17' 1"	13' 4"	11' 6"	14' 9"	11' 6"	10' 0"	13' 4"	10' 5"	9' 0"
400CTS-33	4"	0.0346	0.0330	50	23' 7"	18' 10"	16' 3"	21' 0"	16' 3"	9' 0"	18' 10"	14' 3"	12' 8"
600CTS-33	6"	0.0346	0.0330	50	29' 9" f	26' 8"	22' 10"	24' 4" f	22' 10"	19' 7"	20' 8" f	20' 2"	17' 7"
250CTS-43	2-½"	0.0451	0.0430	50	18' 1"	14' 8"	13' 0"	16' 0"	13' 0"	11' 2"	15' 1"	11' 10"	10' 1"
400CTS-43	4"	0.0451	0.0430	50	24' 10"	19' 7"	17' 1"	21' 7"	17' 1"	14' 10"	19' 7"	15' 5"	13' 5"
600CTS-43	6"	0.0451	0.0430	50	33' 6" f	28' 2"	24' 4"	27' 10" f	24' 1"	21' 0"	24' 5" f	21' 2"	18' 11"

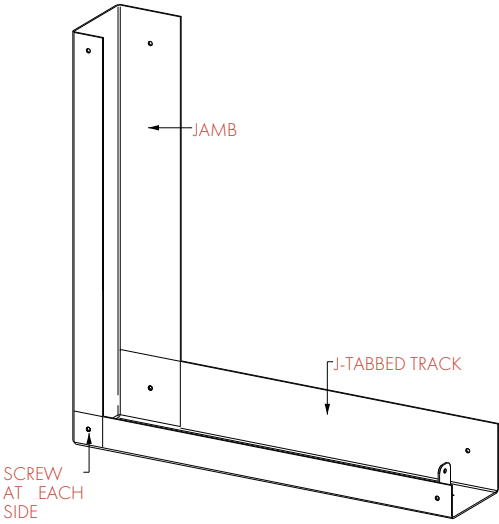
NOTES:

- Calculated properties are based on AISI S100-12,
- 'f' denotes that flexural strength governs,
- CT Studs meet or exceed ASTM C645 and A1003,
- Zinc-Coated (Galvanized) meets or exceeds ASTM A653.

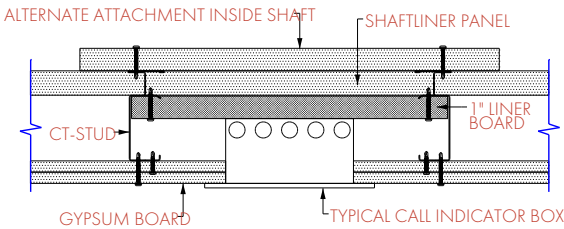
Procedure for the Installation of Shaftwall System

1. Layout the framing per construction drawings. Install J-Tabbed Track on the floor with fasteners spaced at maximum of 24" O.C.
2. Plan the CT-Stud spacing at 24" O.C. and adjust the spacing at each end so that the gap is no more than 8" from the ends.
3. Cut the shaft liner panel $\frac{3}{4}$ " less the total height of the wall and flush against the web of J-Tabbed Track. Bend out the tabs in J-Tabbed track to secure the panel. If tabs are not used, then screw the liner panel to J-Tabbed track at 24" O.C.
4. Cut the CT-Stud $\frac{3}{4}$ " less the total height and install into top and bottom J-Tabbed Track. Fit CT-Stud tightly over the previously installed liner panel.
5. Install the next liner panel inside the J-Tabbed Tracks and within the tabs of CT-Stud.
6. Repeat the above steps to complete the enclosed wall section. Secure the final panel section with screws or tabs from the J-Tabbed Track.
7. If total overall wall height exceeds the standard length of liner panels, then panels may be spliced or stacked with joints occurring within bottom or top third points of wall. Joints of adjacent panels are alternately staggered.
8. Shaftwall Assembly (finished one side): Install the first layer of $\frac{1}{2}$ " Type C or 5/8" Type X gypsum board horizontally with screws spaced @ 24" O.C. There should be at-least 12" offset from the horizontal joints of gypsum board to splice joints of liner panels. Install the face layer either horizontally or vertically with screws spaced @ 8" O.C. Offset edge and end joints from base layer by 24" O.C.
9. Stairwall Assembly (finished both sides): Install gypsum board either horizontally or vertically on each side with screws spaced at 8" O.C. Offset edge and end joints on opposite side by 24" O.C.

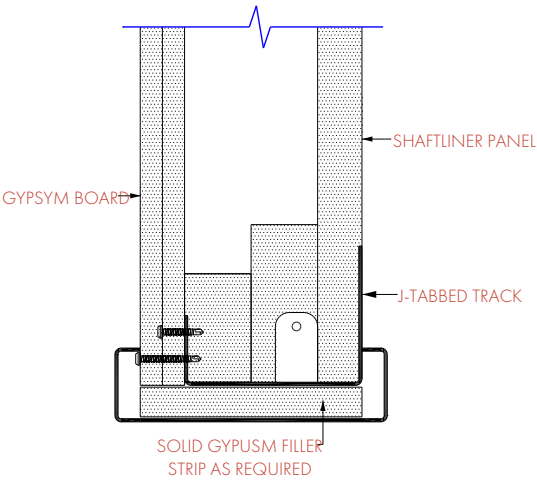
Construction Details



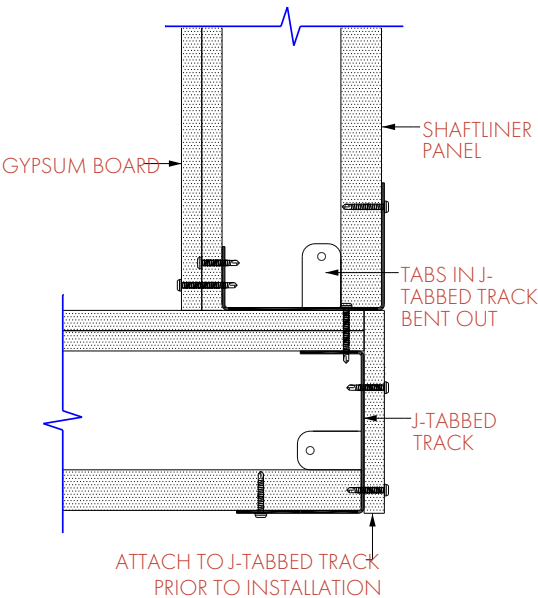
Track to Jamb Connection



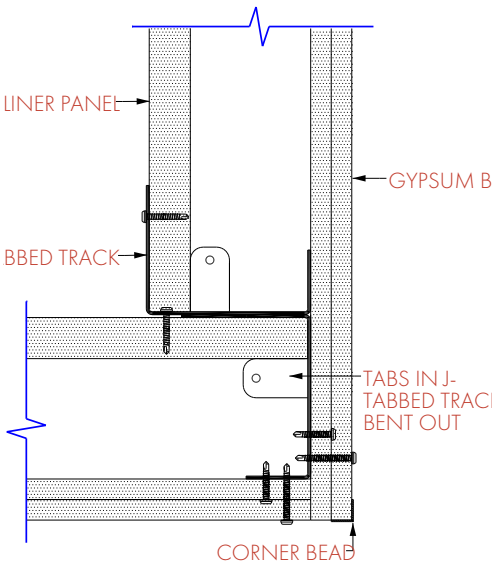
Floor Indicator Box Detail



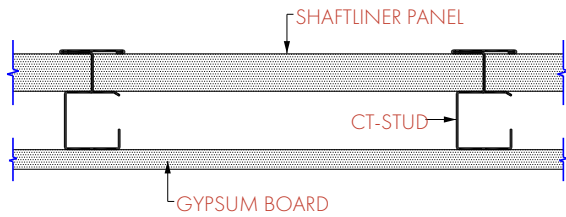
Header Cross Section



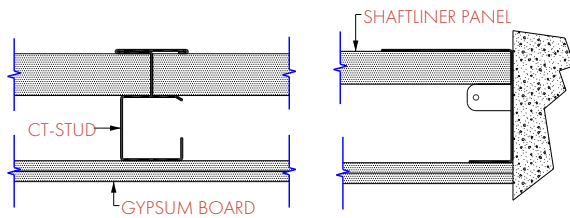
Inside Corner Detail



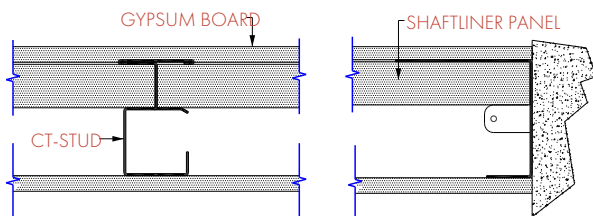
Outside Corner Detail



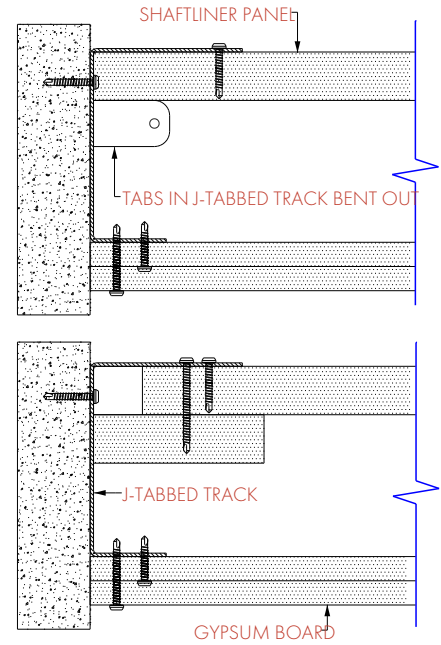
1 Hour Shaftwall Assembly



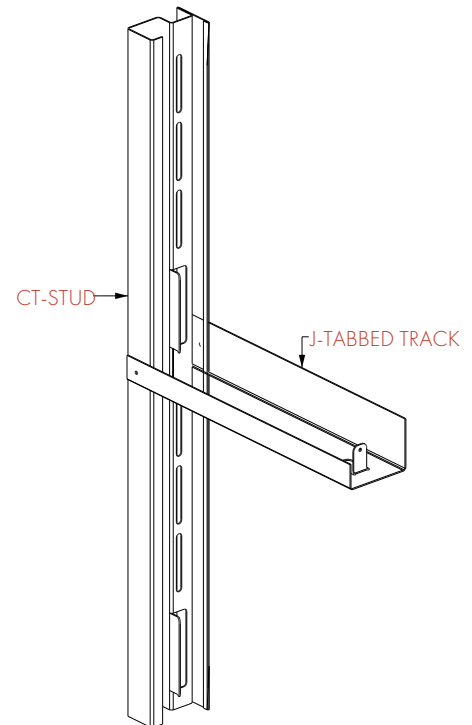
2 Hour Shaftwall Assembly



2 Hour Stairwall Assembly



End of Wall Detail



Header to CT-Stud Connection

DELIVERING PREMIUM MATERIALS
AND IMPECCABLE SERVICE





PRODUCT GUIDE

General Product Information

True gauge drywall stud are still available for projects that are specified in that manner . The modern day steel market has moved from offering steel in gauges to a range of hybrid varieties under the " EQ " meaning Equivalent . OEG's offers the Phantom Studs as their alternative to full guage drywall studs .

Drywall Stud					
WIDTH (IN.)	OEG ITEM #	DESIGN THICKNESS	MILS	KSI	LB/FT
1-5/8"	162S125-18	0.0188	18	33	0.28
	162S125-30	0.0312	30	33	0.46
	162S125-33	0.0346	33	33	0.51
2-1/2"	250S125-18	0.0188	18	33	0.34
	250S125-30	0.0312	30	33	0.55
	250S125-33	0.0346	33	33	0.61
3-5/8"	361S125-18	0.0188	18	33	0.41
	362S125-30	0.0312	30	33	0.67
	362S125-33	0.0346	33	33	0.74
4"	400S125-18	0.0188	18	33	0.43
	400S125-30	0.0312	30	33	0.71
	400S125-33	0.0346	33	33	0.79
6"	600S125-18	0.0188	18	33	0.56
	600S125-30	0.0312	30	33	0.93
	600S125-33	0.0346	33	33	1.02
Drywall Track					
1-5/8"	162T125-18	0.0188	18	33	0.26
	162T125-30	0.0312	30	33	0.44
	162T125-33	0.0346	33	33	0.49
2-1/2"	250T125-18	0.0188	18	33	0.32
	250T125-30	0.0312	30	33	0.53
	250T125-33	0.0346	33	33	0.59
3-5/8"	362T125-18	0.0188	18	33	0.39
	362T125-30	0.0312	30	33	0.65
	362T125-33	0.0346	33	33	0.72
4"	400T125-18	0.0188	18	33	0.41
	400T125-30	0.0312	30	33	0.69
	400T125-33	0.0346	33	33	0.76
6"	600T125-18	0.0188	18	33	0.54
	600T125-30	0.0312	30	33	0.9
	600T125-33	0.0346	33	33	1
Deflection Track					
1-5/8"	162T200-18	0.0188	18	33	0.36
	162T200-30	0.0312	30	33	0.6
	162T125-33	0.0346	33	33	0.66
2-1/2"	250T200-18	0.0188	18	33	0.42
	250T200-30	0.0312	30	33	0.69
	250T200-33	0.0346	33	33	0.76
3-5/8"	362T200-18	0.0188	18	33	0.49
	362T200-30	0.0312	30	33	0.81
	362T200-33	0.0346	33	33	0.9
4"	400T200-18	0.0188	18	33	0.51
	400T200-30	0.0312	30	33	0.85
	400T200-33	0.0346	33	33	0.94
6"	600T200-18	0.0188	18	33	0.64
	600T200-30	0.0312	30	33	1.06
	600T200-33	0.0346	33	33	1.18

General Product Information

Structural studs are manufactured from 33, 50 KSI steel. Standard coating is minimum of G60 galvanized coating. G90 coating is available upon request. Structural stud can be used in many applications; load bearing walls, infill & bypass wall framing floor joist ,roof joist & roof truss framing. See OEG 's design manuel for engineering data and specifications.

Structural Stud Framing Members					
OEG ITEM #	FLANGE WIDTH	RETURN	STUD DEPTH	MILS (GAUGE)	KSI
250S137-	1-3/8"	3/8"	2 1/2 "	(33) 20 (43) 18	33, 50
362S137-		3/8"	3 5/8"	(33) 20 (43) 18	33, 50
400S137-		3/8"	4"	(54) 16 (68) 14	33, 50
600S137-		3/8"	6 "	(54) 16 (68) 14	33, 50
800S137-		3/8"	8"	(54) 16 (68) 14	33, 50
250S162-	1-5/8"	1/2"	2 1/2"	(33) 20 (43) 18	33,50
362S162-		1/2"	3 5/8"	(33) 20 (43) 18	33,50
400S162-		1/2"	4"	(33) 20 (43) 18	33,50
600S162-		1/2"	6"	(33) 20 (43) 18	33,50
800S162-		1/2"	8"	(54) 16 (68) 14	33, 50
1000S162-		1/2"	10"	(54) 16 (68) 14	33,50
1200S162-		1/2"	12"	(54) 16 (68) 14	33,50
1400S162-		1/2"	14"	(97) 12 (118) 10	33,50
1600S162-		1/2'	16"	(97) 12 (118) 10	33,50
250S200-	2"	5/8"	2 1/2"	(33) 20 (43) 18	33, 50
362S200-		5/8"	3 5/8"	(33) 20 (43) 18	33,50
400S200-		5/8"	4"	(33) 20 (43) 18	33,50
600S200-		5/8"	6"	(33) 20 (43) 18	33,50
800S200-		5/8"	8"	(54) 16 (68) 14	33,50
1000S200-		5/8"	10"	(54) 16 (68) 14	33,50
1200S200-		5/8"	12"	(54) 16 (68) 14	33,50
1400S200-		5/8"	14"	(97) 12 (118) 10	33,50
1600S200-		5/8"	16"	(97) 12 (118) 10	33,50
250S250-	2 1/2"	5/8"	212"	(33) 20 (43) 18	33,50
362S250-		5/8"	3 5/8"	(33) 20 (43) 18	33,50
400S250-		5/8"	4"	(33) 20 (43) 18	33,50
600S250-		5/8"	6"	(33) 20 (43) 18	33,50
800S250-		5/8"	8"	(54) 16 (68) 14	33,59
1000S250-		5/8"	10"	(54) 16 (68) 14	33,50
1200S250_		5/8"	12"	(54) 16 (68) 14	33,50
1400S250-		5/8"	14"	(97) 12 (118) 10	33,50
1600S250-		5/8"	16"	(97) 12 (118) 10	33,50
362S300-	3"	5/8"	35/8"	(33) 20 (43) 18	33,50
400S300-		5/8"	4"	(33) 20 (43) 18	33,50
600S300-		5/8"	6"	(33) 20 (43) 18	33,50
800S300-		5/8"	8"	(33) 20 (43) 18	33,59
1000S300-		5/8"	10"	(54) 16 (68) 14	33,50
1200S300-		5/8"	12"	(54) 16 (68) 14	33,50
1400S300-		5/8"	14"	(54) 16 (68) 14	33,50
1600S300-		5/8"	16"	(97) 12 (118) 10	33,50
362S350-	3 1/2"	5/8"	3 5/8"	(33) 20 (43) 18	33,50
400S350-		5/8"	4"	(33) 20 (43) 18	33,50
600S350-		5/8"	6"	(33) 20 (43) 18	33,50
800S350-		5/8"	8"	(33) 20 (43) 18	33,59
1000S350-		5/8"	10"	(54) 16 (68) 14	33,50
1200S350-		5/8"	12"	(54) 16 (68) 14	33,50
1400S350-		5/8"	14"	(54) 16 (68) 14	33,50
1600S350-		5/8"	16"	(97) 12 (118) 10	33,50

General Product Information

Structural Deflection tracks are manufactured from 33,50 KSI steel with a minimum G60 galvanized coating. Deflection track is used to allow stud walls vertical movement independent of the super structure which can reduce risk of exterior fascade cracking. Deflection track can also reduce stress and cracking of interior drywall partitions. Consult with an engineer for the correct assembly for your project.

Structural Framing Track					
OEG ITEM #	FLANGE WIDTH	RETURN	STUD DEPTH	MILS (GAUGE)	KSI
250T125-	1 1/4"	33, 43, 54,	20,18,16	21/2"	33,50
250T150-	1 1/2"	68,97	14, 12	2 1/2:	33,50
362T125-	1 1/4"	33,43,54	20,18,16	3 5/8"	33,50
362T150-	1 1/2"	68,97	14,12	3 5/8"	33,50
400T125-	1 1/4"	33,43,54,	20,18,16,	4"	33,50
400T150-	1 1/2"	68,97	14,12	4"	33,50
600T125-	1 1/4"	33,43,54,	20,18,16,	6"	33,50
600T150-	1 1/2"	68,97,118	14,12,10	6"	33,50
800T125-	1 1/4"	33, 43, 54,	20,18,16	8"	33,50
800T150-	1 1/2"	68,97,118	14,12,10	8"	33,50
1000T125-	1 1/4"	33,43,54,	20,18,16,	10"	33,50
1000T150-	1 1/2"	68,97,118	14,12,10	10"	33,50
1200T125-	1 1/4:	33,43,54	20,18,16	12"	33,50
1200T150-	1 1/2"	68,97,118	14,12,10	12"	33,50
1400T125-	1 1/4"	33,43,54	20,18,16	14"	33,50
1400T150-	1 1/2"	68,97,118	14,12,10	14"	33,50
1600T125-	1 1/4"	33,43,54	20,18,16	16"	33,50
1600T150-	1 1/2"	68,97,118	14,12,10	16"	33,50
Structural Deflection Track					
250T200-	2"	33, 43, 54	20, 18, 16	2 1/2"	33,50
250T250-	2 1/2"			2 1/2"	33,50
250T300-	3"	68, 97	14,12	2 1/2"	33,50
362T200-	2"	33, 43, 54		3 5/8"	33,50
362T250-	2 1/2"		20, 18, 16	3 5/8"	33,50
362T300_	3"	68, 97	14,12	3 5/8"	33,50
400T200-	2"	33, 43, 54	20,18, 54	4"	33,50
400T250-	2 1/2"			4"	33,50
400T300-	3"	68,97	14, 14	4"	33,50
600T200-	2"	33, 43, 54	20, 18, 16	6"	33,50
600T250-	2 1/2"			6"	33,50
600T300-	3"	68, 97	14, 12	6"	33,50
800T200-	2'	33,43, 54	20, 18, 16	8"	33,50
800T250-	2 1/2"			8"	33,50
800T300-	3"	68, 97	14, 16	8"	33,50
1000T200-	2"	33, 43, 54	20,18,16	10"	33,50
1000T250-	2 1/2"			10'	33,50
1000T300-	3"	68, 97	68,118	10"	33,50
1200T200-	2"	33,43,54		12"	33,50
1200T250-	2 1/2"			12"	33,50
1200T300-	3"	68,97		12"	33,50
1400T200-	2"	33,43,54	20,18,16	14"	33,50
1400T250-	2 1/2"			14"	33,50
1400T300-	3"	68,97	14, 12	14"	33,50

General Product Information

Fast Frame Jambs & Header can reduce labor by 50% or more. Replaces multiple stud built up jambs & can eliminate costly 4 pieces boxed headers to only 2 pieces.

Fast Frame Jamb Studs & Headers					
OEG ITEM#	FLANGE HEIGHT	RETURN	STUD WIDTH MILS (GA)		KSI
362S300-	3"	5/8"	3 5/8"	33 (20)	50
400S300-	3"	5/8"	4"	43 (18)	50
600S300-	3"	5/8"	6"	54 (16)	50
800S300-	3"	5/8"	8"	68 (14)	50
1000S300-	3"	5/8"	10"	97 (12)	50
1200S300-	3"	5/8"	12"	118 (10)	50
1400S300-	3"	5/8"	14"	118 (10)	50
362S350-	3 1/2"	5/8"	3 5/8"	33 (20)	50
400S350-	3 1/2"	5/8"	4"	43 (18)	50
600S350_	3 1/2"	5/8"	6"	54 (16)	50
800S350-	3 1/2"	5/8"	8"	68 (14)	50
1000S350-	3 1/2"	5/8"	10"	97 (12)	50
1200S350-	3 1/2"	5/8"	12"	118 (10)	50
1400S350-	3 1/2"	5/8"	14"	118 (10)	50

Fast Frame Jamb & Header Clip		
JAMB SIZE	HEADER FLANGE size	C CLIP Leg
3 5/8"	3", 3 1/2"	2"
4"	3", 3 1/2"	2"
6"	3", 3 1/2"	2"
8"	3", 3 1/2"	2"
10"	3", 3 1/2"	2"
12"	3", 3 1/2"	2"
14"	3", 3 1/2"	2"

General Product Information

Flat strap can be used for shear wall bracing , block & strap wall bracing , block & strap floor joist bracing & many other applications.

Flat Strap/ Flat Stock				
OEG ITEM#	WIDTH	MILS /GA	KSI	STANDARD LENGTH
FS220	2"	33 (20)	33,50	10'
FS318	3"	43 (18)	33,50	10'
FS416	4"	54 (16)	33,50	10'
FS514	5"	68 (14)	33,50	10'
FS612	6"	97 (12)	33,50	10'
FS810	8"	118 (10)	33,50	10'
FS1010	10"	118 (10)	33,50	10'
FS1210	12"	118 (10)	33,50	10'
FS1410	14"	118 (10)	33,50	10'

General Product Information

Slotted Track is manufactured from 50 KSI with a minimum G40 galvanized coating \. This track is used for deflection conditons such as warehouse demising walls, curtain walls ETC.... This labor saving track gives you positive attachment of stud to top track and still will provide the necessary deflection. In many case slotted track will eliminate the a row of bridging within 12in of top track. Consult with cold form engineer for details.

Frame Fast Slotted Deflection Track					
OEG ITEM #	# WIDTH	MILS	GAUGE	LEG HEIGHT	KSI
212SLT250-	2 1/2"	33	20	2 1/2"	50
212SLT250-	2 1/2"	43	18	2 1/2"	50
212SLT250-	2 1/2"	54	16	2 1/2"	50
358SLT250-	3 5/8"	33	20	2 1/2"	50
358SLT250-	3 5/8"	43	18	2 1/2"	50
358SLT250-	3 5/8"	54	16	2 1/2"	50
358SLT250-	3 5/8"	68	14	2 1/2"	50
400SLT250-	4"	33	20	2 1/2"	50
400SLT250-	4"	43	18	2 1/2"	50
400SLT250-	4"	54	16	2 1/2"	50
400SLT250-	4"	68	14	2 1/2"	50
400SLT250-	4"	97	12	2 1/2"	50
600SLT250	6"	33	20	2 1/2"	50
600SLT250-	6"	43	18	2 1/2"	50
600SLT250-	6"	54	16	2 1/2"	50
600SLT250-	6"	68	14	2 1/2"	50
600SLT250-	6"	97	12	2 1/2"	50
800SLT250-	8"	33	20	2 1/2"	50
800SLT250-	8"	43	18	2 1/2"	50
800SLT250-	8"	54	16	2 1/2"	50
800SLT250-	8"	68	14	2 1/2"	50
800SLT250-	8"	97	12	2 1/2"	50
358SLT350-	3 5/8"	33	20	3 1/2"	50
358SLT350-	3 5/8"	43	18	3 1/2"	50
358SLT350-	3 5/8"	54	16	3 1/2"	50
358SLT350-	3 5/8"	68	14	3 1/2"	50
400SLT350-	4"	33	20	3 1/2"	50
400SLT350-	4"	43	18	3 1/2"	50
400SLT350-	4"	54	16	3 1/2"	50
400SLT350-	4"	68	14	3 1/2"	50
400SLT350-	4"	97	12	3 1/2"	50
600SLT350-	6"	33	20	3 1/2"	50
600SLT350-	6"	43	18	3 1/2"	50
600SLT350-	6"	54	16	3 1/2"	50
600SLT350-	6"	68	14	3 1/2"	50
600SLT350-	6"	97	12	3 1/2"	50
800SLT350-	8"	33	20	3 1/2"	50
800SLT350-	8"	43	18	3 1/2"	50
800SLT350-	8"	54	16	3 1/2"	50
800SLT350-	8"	68	14	3 1/2"	50
800SLT350-	8"	97	12	3 1/2"	50

EXCEEDING EXPECTATIONS -
EVERY DAY



A full-page photograph of a male worker in a red hard hat and blue work shirt, viewed from the side. He is holding a yellow and black power tool, possibly a torch or welder, and is working on a large, dark metal coil. A silver chain strap is visible hanging from the top of the coil. The background shows industrial equipment, including yellow safety railings. The text "SECTION PROPERTIES" is overlaid in the center in a large, white, bold, sans-serif font.

SECTION PROPERTIES

Section Properties Table Notes:

1. Calculated properties are based on AISI S100-12, "North American Specification for the Design of Cold-Formed Steel Structural Members."
2. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
3. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punch-outs.
4. For deflection calculations, use the effective moment of inertia.
5. Allowable moment includes cold-work of forming.
6. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius.

Structural Stud & Joist:

OEG Structural Studs are general purpose framing component used in a variety of applications including load bearing interior and exterior walls, non-load bearing exterior curtain-walls, floor joists and headers, roof trusses, rafters and purlins. It has pre-cut knockouts for ease and speed of installation of utilities, water pipe conduits and electrical wiring as well as for wall bridging. OEG Structural Studs have greater resistance to rust formation, meaning your structure will last longer thus saves money in the long-term.

Standard punch-out sizing is $1\frac{1}{2}" \times 4"$ in studs $3\frac{5}{8}"$ and wider. Studs smaller than $3\frac{5}{8}"$ will be shipped un-punched, unless specified otherwise at the time of order. Custom size punch-outs and custom placement of punch-outs are available upon request. Holes are punched starting at 12" from the lead edge with additional punch-outs at every 24", with the last punch-out at 24" before the lead edge.



Track Section:

Structural Tracks are U-shaped channels used as the top and bottom tracks to secure wall studs or end support closures for floor joist framing. Structural track is also used as end support closures for joists at foundation walls or exterior, head for wall openings and solid blocking. Structural Track is normally ordered in corresponding size and gage to the wall studs.



STRUCTURAL STUD SECTION PROPERTIES

STRUCTURAL STUD SECTION PROPERTIES																							
MEMBER	DESIGN THICKNESS	KSI	WEIGHT	AREA	GROSS PROPERTIES					EFFECTIVE PROPERTIES					TORSIONAL PROPERTIES								
					I_x	S_x	R_x	I_y	R_y	I_x	S_x	M_a	M_{ad}	V_{ad}	$V_{a_{net}}$	$J \times 1000$	C_w	X_o	m	R_o	β	L_u	
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)		(in)	
250S137-68	0.0713	33	1.33	0.39	0.386	0.309	0.995	0.096	0.495	0.386	0.309	7.2	7.2	1891	342	0.661	0.138	-1.096	0.653	1.561	0.507	33.1	
250S137-68	0.0713	50	1.33	0.39	0.386	0.309	0.995	0.096	0.495	0.386	0.308	10.66	10.68	2866	519	0.661	0.138	-1.096	0.653	1.561	0.507	26.8	
362S137-33	0.0346	33	0.8	0.236	0.479	0.264	1.424	0.059	0.501	0.479	0.232	4.59	4.73	1024	521	0.094	0.165	-1.003	0.615	1.813	0.694	34.7	
362S137-43	0.0451	33	1.04	0.306	0.616	0.34	1.419	0.075	0.497	0.616	0.32	6.33	6.66	1739	676	0.207	0.208	-0.991	0.608	1.801	0.697	34.6	
362S137-54	0.0566	33	1.29	0.379	0.756	0.417	1.412	0.091	0.49	0.756	0.402	7.95	8.24	2341	705	0.405	0.251	-0.978	0.601	1.786	0.7	34.6	
362S137-54	0.0566	50	1.29	0.379	0.756	0.417	1.412	0.091	0.49	0.756	0.382	11.42	11.91	3372	1016	0.405	0.251	-0.978	0.601	1.786	0.7	27.9	
362S137-68	0.0713	33	1.6	0.47	0.923	0.509	1.401	0.109	0.481	0.923	0.498	9.84	10.06	2884	662	0.797	0.302	-0.959	0.592	1.765	0.704	34.6	
362S137-68	0.0713	50	1.6	0.47	0.923	0.509	1.401	0.109	0.481	0.923	0.493	14.77	15.24	4370	1004	0.797	0.302	-0.959	0.592	1.765	0.704	27.8	
400S137-33	0.0346	33	0.85	0.249	0.603	0.302	1.556	0.061	0.496	0.603	0.259	5.12	5.29	976	595	0.099	0.204	-0.965	0.597	1.897	0.741	34.5	
400S137-43	0.0451	33	1.1	0.323	0.776	0.388	1.551	0.078	0.491	0.776	0.359	7.09	7.47	1739	810	0.219	0.257	-0.954	0.591	1.886	0.744	34.3	
400S137-54	0.0566	33	1.36	0.401	0.953	0.477	1.543	0.094	0.484	0.953	0.453	8.96	9.42	2603	944	0.428	0.311	-0.94	0.583	1.87	0.747	34.3	
400S137-54	0.0566	50	1.36	0.401	0.953	0.477	1.543	0.094	0.484	0.953	0.428	12.82	13.38	3372	1223	0.428	0.311	-0.94	0.583	1.87	0.747	27.7	
400S137-68	0.0713	33	1.69	0.497	1.165	0.583	1.531	0.112	0.475	1.165	0.568	11.22	11.51	3215	895	0.842	0.375	-0.922	0.574	1.85	0.751	34.2	
400S137-68	0.0713	50	1.69	0.497	1.165	0.583	1.531	0.112	0.475	1.165	0.558	16.7	17.44	4871	1356	0.842	0.375	-0.922	0.574	1.85	0.751	27.6	
600S137-33	0.0346	33	1.08	0.318	1.583	0.528	2.23	0.069	0.464	1.548	0.455	8.98	8.19	638	638	0.127	0.5	-0.807	0.519	2.416	0.889	33.5	
600S137-43	0.0451	33	1.41	0.413	2.042	0.681	2.224	0.087	0.459	2.041	0.645	12.74	11.83	1416	1240	0.28	0.633	-0.796	0.513	2.406	0.89	33.3	
600S137-54	0.0566	33	1.75	0.514	2.518	0.839	2.214	0.105	0.452	2.518	0.832	16.45	15.96	2739	1890	0.549	0.769	-0.784	0.506	2.392	0.893	33	
600S137-54	0.0566	50	1.75	0.514	2.518	0.839	2.214	0.105	0.452	2.518	0.777	23.26	21.25	2823	1947	0.549	0.769	-0.784	0.506	2.392	0.893	26.8	
600S137-68	0.0713	33	2.18	0.64	3.095	1.032	2.2	0.125	0.443	3.095	1.032	24.05	20.39	4347	2339	1.084	0.93	-0.768	0.497	2.372	0.895	32.8	
600S137-68	0.0713	50	2.18	0.64	3.095	1.032	2.2	0.125	0.443	3.095	1.03	30.85	28.91	5350	2879	1.084	0.93	-0.768	0.497	2.372	0.895	26.5	
600S137-97	0.1017	33	3.03	0.889	4.19	1.397	2.171	0.159	0.423	4.189	1.396	34.49	34.5	6911	2512	3.066	1.216	-0.734	0.48	2.33	0.901	32.4	
600S137-97	0.1017	50	3.03	0.889	4.19	1.397	2.171	0.159	0.423	4.189	1.396	50.81	50.82	10472	3806	3.066	1.216	-0.734	0.48	2.33	0.901	26.1	
800S137-33	0.0346	33	1.32	0.388	3.199	0.8	2.873	0.073	0.435	2.998	0.622	12.3	10.72	474	474	0.155	0.957	-0.696	0.46	2.988	0.946	32.5	
800S137-43	0.0451	33	1.71	0.503	4.135	1.034	2.866	0.093	0.43	4.001	0.896	17.7	15.78	1051	1051	0.341	1.214	-0.687	0.454	2.979	0.947	32.2	
800S137-54	0.0566	33	2.13	0.627	5.111	1.278	2.855	0.112	0.423	5.077	1.179	23.29	21.75	2091	2091	0.67	1.478	-0.676	0.448	2.964	0.948	32	
800S137-54	0.0566	50	2.13	0.627	5.111	1.278	2.855	0.112	0.423	4.974	1.083	32.43	28.49	2091	2091	0.67	1.478	-0.676	0.448	2.964	0.948	25.9	
800S137-68	0.0713	33	2.66	0.782	6.305	1.576	2.839	0.134	0.414	6.303	1.541	30.45	29.77	4221	3367	1.325	1.789	-0.661	0.44	2.944	0.95	31.6	
800S137-68	0.0713	50	2.66	0.782	6.305	1.576	2.839	0.134	0.414	6.286	1.468	43.97	39.6	4221	3367	1.325	1.789	-0.661	0.44	2.944	0.95	25.6	
800S137-97	0.1017	33	3.72	1.093	8.601	2.15	2.806	0.17	0.394	8.598	2.15	53.09	53.11	8843	4824	3.767	2.349	-0.63	0.423	2.902	0.953	27.6	
800S137-97	0.1017	50	3.72	1.093	8.601	2.15	2.806	0.17	0.394	8.598	2.15	64.36	63.95	10885	5938	3.767	2.349	-0.63	0.423	2.902	0.953	25.1	
162S162-43	0.0451	33	0.81	0.251	0.114	0.140	0.673	0.095	0.615	0.112	0.137	2.98	3.02	907	162	0.160	0.088	-1.616	0.914	1.855	0.241	43.3	
162S162-43	0.0451	50	0.81	0.251	0.114	0.140	0.673	0.095	0.615	0.111	0.131	4.33	4.38	1374	246	0.160	0.088	-1.616	0.914	1.855	0.241	35.1	
162S162-54	0.0566	33	1.02	0.315	0.143	0.175	0.673	0.119	0.615	0.141	0.172	3.74	3.79	1138	163	0.310	0.111	-1.615	0.913	1.854	0.242	42.3	
162S162-54	0.0566	50	1.02	0.315	0.143	0.175	0.673	0.119	0.615	0.140	0.165	5.43	5.50	1725	247	0.310	0.111	-1.615	0.913	1.854	0.242	34.3	
250S162-33	0.0346	33	0.76	0.223	0.235	0.188	1.027	0.087	0.624	0.235	0.18	3.55	3.56	975	399	0.089	0.146	-1.47	0.859	1.898	0.401	44.1	
250S162-43	0.0451	33	0.98	0.289	0.302	0.242	1.022	0.111	0.62	0.302	0.24	5.22	5.25	1265	394	0.196	0.184	-1.457	0.852	1.885	0.402	42.1	
250S162-54	0.0566	33	1.22	0.358	0.37	0.296	1.016	0.135	0.613	0.37	0.296	6.57	6.57	1553	373	0.383	0.223	-1.443	0.845	1.868	0.404	41.8	
250S162-54	0.0566	50	1.22	0.358	0.37	0.296	1.016	0.135	0.613	0.37	0.284	9.42	9.46	2353	565	0.							

STRUCTURAL STUD SECTION PROPERTIES																							
MEMBER	DESIGN THICKNESS	KSI	WEIGHT	AREA	GROSS PROPERTIES					EFFECTIVE PROPERTIES					TORSIONAL PROPERTIES								
					I_x	S_x	R_x	I_y	R_y	I_x	S_x	M_a	M_{ad}	V_{ag}	$V_{a_{net}}$	$J \times 1000$	C_w	X_o	m	R_o	β	L_u	
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)		(in)	
600S162-54	0.0566	33	1.89	0.556	2.861	0.954	2.268	0.18	0.57	2.86	0.953	21.17	19.76	2739	1890	0.594	1.337	-1.049	0.663	2.563	0.833	40.7	
600S162-54	0.0566	50	1.89	0.556	2.861	0.954	2.268	0.18	0.57	2.86	0.916	30.33	25.91	2823	1947	0.594	1.337	-1.049	0.663	2.563	0.833	33	
600S162-68	0.0713	33	2.36	0.693	3.526	1.175	2.256	0.218	0.561	3.525	1.175	26.79	26.79	4347	2339	1.174	1.626	-1.032	0.655	2.543	0.835	40.6	
600S162-68	0.0713	50	2.36	0.693	3.526	1.175	2.256	0.218	0.561	3.525	1.164	39.47	35.71	5350	2879	1.174	1.626	-1.032	0.655	2.543	0.835	32.8	
600S162-97	0.1017	33	3.28	0.966	4.799	1.6	2.229	0.283	0.542	4.798	1.599	38.38	38.39	6911	2512	3.329	2.153	-0.997	0.636	2.501	0.841	40.3	
600S162-97	0.1017	50	3.28	0.966	4.799	1.6	2.229	0.283	0.542	4.798	1.599	56.73	56.75	10472	3806	3.329	2.153	-0.997	0.636	2.501	0.841	32.5	
600S162-118	0.1242	33	3.94	1.158	5.655	1.885	2.209	0.322	0.527	5.654	1.885	46.83	46.84	8267	2391	5.956	2.487	-0.971	0.623	2.47	0.846	40.2	
600S162-118	0.1242	50	3.94	1.158	5.655	1.885	2.209	0.322	0.527	5.654	1.885	68.95	68.97	12526	3622	5.956	2.487	-0.971	0.623	2.47	0.846	32.3	
800S162-33	0.0346	33	1.41	0.413	3.583	0.896	2.944	0.125	0.55	3.385	0.71	14.03	12.61	474	474	0.165	1.63	-0.936	0.607	3.138	0.911	40.1	
800S162-43	0.0451	33	1.83	0.537	4.635	1.159	2.938	0.16	0.546	4.5	1.019	20.14	18.34	1051	1051	0.364	2.076	-0.926	0.601	3.128	0.912	39.8	
800S162-54	0.0566	33	2.28	0.67	5.737	1.434	2.927	0.194	0.539	5.702	1.334	26.36	24.99	2091	2091	0.715	2.539	-0.914	0.594	3.114	0.914	39.6	
800S162-54	0.0566	50	2.28	0.67	5.737	1.434	2.927	0.194	0.539	5.6	1.229	36.79	32.83	2091	2091	0.715	2.539	-0.914	0.594	3.114	0.914	32.1	
800S162-68	0.0713	33	2.84	0.836	7.092	1.773	2.913	0.235	0.53	7.09	1.737	34.33	33.86	4221	3367	1.416	3.093	-0.899	0.586	3.094	0.916	39.3	
800S162-68	0.0713	50	2.84	0.836	7.092	1.773	2.913	0.235	0.53	7.07	1.664	49.81	45.13	4221	3367	1.416	3.093	-0.899	0.586	3.094	0.916	31.9	
800S162-97	0.1017	33	3.98	1.169	9.717	2.429	2.883	0.305	0.511	9.714	2.429	58.28	58.29	8843	4824	4.03	4.114	-0.866	0.568	3.053	0.92	35.1	
800S162-97	0.1017	50	3.98	1.169	9.717	2.429	2.883	0.305	0.511	9.714	2.429	72.71	71.98	10885	5938	4.03	4.114	-0.866	0.568	3.053	0.92	31.4	
800S162-118	0.1242	33	4.79	1.407	11.509	2.877	2.86	0.347	0.496	11.506	2.876	71.48	71.5	11341	4971	7.234	4.766	-0.842	0.556	3.023	0.922	34.2	
800S162-118	0.1242	50	4.79	1.407	11.509	2.877	2.86	0.347	0.496	11.506	2.876	105.24	105.27	16235	7115	7.234	4.766	-0.842	0.556	3.023	0.922	28	
1000S162-43	0.0451	33	2.13	0.627	8.028	1.606	3.577	0.168	0.518	7.523	1.302	25.74	22.5	836	836	0.425	3.43	-0.823	0.545	3.707	0.951	38.8	
1000S162-54	0.0566	33	2.66	0.783	9.954	1.991	3.566	0.204	0.511	9.628	1.722	34.02	31.13	1661	1661	0.836	4.198	-0.812	0.538	3.693	0.952	38.5	
1000S162-54	0.0566	50	2.66	0.783	9.954	1.991	3.566	0.204	0.511	9.391	1.572	47.07	40.39	1661	1661	0.836	4.198	-0.812	0.538	3.693	0.952	31.3	
1000S162-68	0.0713	33	3.33	0.978	12.33	2.466	3.55	0.247	0.502	12.257	2.276	44.98	42.94	3345	3345	1.658	5.121	-0.798	0.531	3.673	0.953	38.2	
1000S162-68	0.0713	50	3.33	0.978	12.33	2.466	3.55	0.247	0.502	11.979	2.155	64.51	56.39	3345	3345	1.658	5.121	-0.798	0.531	3.673	0.953	31	
1000S162-97	0.1017	33	4.67	1.372	16.974	3.395	3.517	0.32	0.483	16.968	3.394	67.06	67.08	8843	6434	4.731	6.827	-0.768	0.514	3.632	0.955	37.5	
1000S162-97	0.1017	50	4.67	1.372	16.974	3.395	3.517	0.32	0.483	16.968	3.27	97.9	92.61	9864	7177	4.731	6.827	-0.768	0.514	3.632	0.955	30.4	
1000S162-118	0.1242	33	5.63	1.655	20.177	4.035	3.491	0.364	0.469	20.171	4.034	100.25	100.28	13189	7747	8.511	7.924	-0.746	0.502	3.601	0.957	33	
1000S162-118	0.1242	50	5.63	1.655	20.177	4.035	3.491	0.364	0.469	20.171	4.034	120.78	120.41	16235	9536	8.511	7.924	-0.746	0.502	3.601	0.957	30	
1200S162-54	0.0566	33	3.05	0.896	15.736	2.623	4.191	0.212	0.486	14.744	2.109	41.68	36.4	1377	1377	0.957	6.34	-0.732	0.493	4.282	0.971	37.5	
1200S162-54	0.0566	50	3.05	0.896	15.736	2.623	4.191	0.212	0.486	14.299	1.914	57.32	46.79	1377	1377	0.957	6.34	-0.732	0.493	4.282	0.971	30.5	
1200S162-68	0.0713	33	3.81	1.121	19.526	3.254	4.174	0.255	0.477	18.956	2.817	55.66	50.99	2771	2771	1.899	7.739	-0.719	0.485	4.262	0.972	37.2	
1200S162-68	0.0713	50	3.81	1.121	19.526	3.254	4.174	0.255	0.477	18.391	2.645	79.2	66.18	2771	2771	1.899	7.739	-0.719	0.485	4.262	0.972	30.2	
1200S162-97	0.1017	33	5.36	1.576	26.977	4.496	4.138	0.332	0.459	26.967	4.327	85.51	83.91	8147	7411	5.433	10.331	-0.691	0.47	4.22	0.973	36.4	
1200S162-97	0.1017	50	5.36	1.576	26.977	4.496	4.138	0.332	0.459	26.738	4.091	122.5	111.38	8147	7411	5.433	10.331	-0.691	0.47	4.22	0.973	29.5	
1200S162-118	0.1242	33	6.48	1.904	32.158	5.36	4.11	0.377	0.445	32.146	5.358	105.87	105.91	13189	9714	9.788	12.002	-0.67	0.459	4.188	0.974	35.9	
1200S162-118	0.1242	50	6.48	1.904	32.158	5.36	4.11	0.377	0.445	32.146	5.169	154.75	147.33	14986	11037	9.788	12.002	-0.67	0.459	4.188	0.974	29	
350S200-43	0.0451	33	1.29	0.379	0.771	0.441	1.426	0.224	0.768	0.771	0.41	8.09	8.36	1739	631	0.257	0.687	-1.748	1.032	2.383	0.462	53.7	
350S200-54	0.0566	33	1.6	0.471	0.95	0.543	1.42	0.274	0.762	0.95	0.53	10.48	10.73	2253	633	0.503	0.838	-1.733	1.024	2.367	0.464	53.8	
350S200-54	0.0566	50	1.6	0.471	0.95	0.543	1.42	0.274															

STRUCTURAL STUD SECTION PROPERTIES																							
MEMBER	DESIGN THICKNESS	KSI	WEIGHT	AREA	GROSS PROPERTIES					EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES							
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _a	M _{ad}	V _{ag}	V _{a_{net}}	J x 1000	C _w	X _o	m	R _o	β	L _u	
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)			
600S200-118	0.1242	33	4.36	1.283	6.643	2.214	2.276	0.612	0.691	6.643	2.214	53.07	53.07	8267	2391	6.595	4.753	-1.351	0.845	2.736	0.756	51.1	
600S200-118	0.1242	50	4.36	1.283	6.643	2.214	2.276	0.612	0.691	6.643	2.214	78.46	78.47	12526	3622	6.595	4.753	-1.351	0.845	2.736	0.756	41.1	
800S200-33	0.0346	33	1.52	0.448	4.097	1.024	3.024	0.227	0.712	4.096	0.816	16.12	14.53	474	474	0.179	2.971	-1.288	0.817	3.363	0.853	50.6	
800S200-43	0.0451	33	1.98	0.582	5.303	1.326	3.018	0.292	0.708	5.302	1.293	25.54	20.99	1051	1051	0.395	3.797	-1.277	0.811	3.353	0.855	50.3	
800S200-54	0.0566	33	2.47	0.726	6.574	1.644	3.009	0.357	0.701	6.573	1.643	35.75	30.39	2091	2091	0.775	4.663	-1.265	0.804	3.338	0.856	47.8	
800S200-54	0.0566	50	2.47	0.726	6.574	1.644	3.009	0.357	0.701	6.573	1.499	44.87	37.39	2091	2091	0.775	4.663	-1.265	0.804	3.338	0.856	40.7	
800S200-68	0.0713	33	3.09	0.907	8.143	2.036	2.996	0.435	0.692	8.141	2.035	45.29	41.81	4221	3367	1.537	5.712	-1.248	0.796	3.319	0.859	47	
800S200-68	0.0713	50	3.09	0.907	8.143	2.036	2.996	0.435	0.692	8.141	1.964	65.21	54.73	4221	3367	1.537	5.712	-1.248	0.796	3.319	0.859	38.4	
800S200-97	0.1017	33	4.32	1.271	11.207	2.802	2.97	0.577	0.674	11.204	2.801	65.13	65.14	8843	4824	4.381	7.684	-1.214	0.777	3.278	0.863	45.5	
800S200-97	0.1017	50	4.32	1.271	11.207	2.802	2.97	0.577	0.674	11.204	2.801	96.63	89.8	10885	5938	4.381	7.684	-1.214	0.777	3.278	0.863	37.2	
800S200-118	0.1242	33	5.21	1.531	13.32	3.33	2.95	0.666	0.659	13.317	3.329	79.79	79.81	11341	4971	7.872	8.981	-1.188	0.764	3.248	0.866	44.6	
800S200-118	0.1242	50	5.21	1.531	13.32	3.33	2.95	0.666	0.659	13.317	3.329	117.97	117.61	16235	7115	7.872	8.981	-1.188	0.764	3.248	0.866	36.5	
1000S200-43	0.0451	33	2.29	0.672	9.088	1.818	3.676	0.309	0.677	8.603	1.47	29.05	26.16	836	836	0.456	6.236	-1.147	0.743	3.91	0.914	49.3	
1000S200-54	0.0566	33	2.86	0.839	11.282	2.256	3.666	0.378	0.671	10.954	1.984	39.2	35.88	1661	1661	0.896	7.665	-1.135	0.737	3.896	0.915	49.1	
1000S200-54	0.0566	50	2.86	0.839	11.282	2.256	3.666	0.378	0.671	10.77	1.705	51.05	46.64	1661	1661	0.896	7.665	-1.135	0.737	3.896	0.915	39.8	
1000S200-68	0.0713	33	3.57	1.05	13.999	2.8	3.652	0.46	0.662	13.921	2.607	51.52	49.09	3345	3345	1.779	9.401	-1.12	0.729	3.877	0.917	48.8	
1000S200-68	0.0713	50	3.57	1.05	13.999	2.8	3.652	0.46	0.662	13.666	2.42	72.47	64.53	3345	3345	1.779	9.401	-1.12	0.729	3.877	0.917	39.6	
1000S200-97	0.1017	33	5.01	1.474	19.343	3.869	3.622	0.61	0.643	19.337	3.867	76.42	76.44	8843	6434	5.082	12.679	-1.088	0.711	3.836	0.92	48.2	
1000S200-97	0.1017	50	5.01	1.474	19.343	3.869	3.622	0.61	0.643	19.337	3.741	112.01	104.79	9864	7177	5.082	12.679	-1.088	0.711	3.836	0.92	39	
1000S200-118	0.1242	33	6.05	1.779	23.06	4.612	3.6	0.704	0.629	23.054	4.611	110.5	110.53	13189	7747	9.149	14.848	-1.064	0.699	3.806	0.922	43.3	
1000S200-118	0.1242	50	6.05	1.779	23.06	4.612	3.6	0.704	0.629	23.054	4.611	138.05	135.82	16235	9536	9.149	14.848	-1.064	0.699	3.806	0.922	38.7	
1200S200-54	0.0566	33	3.24	0.953	17.668	2.945	4.307	0.394	0.643	16.679	2.425	47.93	42.49	1377	1377	1.017	11.55	-1.032	0.681	4.475	0.947	48	
1200S200-54	0.0566	50	3.24	0.953	17.668	2.945	4.307	0.394	0.643	16.335	2.073	62.07	54.77	1377	1377	1.017	11.55	-1.032	0.681	4.475	0.947	39	
1200S200-68	0.0713	33	4.06	1.192	21.955	3.659	4.291	0.479	0.634	21.378	3.216	63.54	58.86	2771	2771	2.02	14.176	-1.017	0.673	4.456	0.948	47.7	
1200S200-68	0.0713	50	4.06	1.192	21.955	3.659	4.291	0.479	0.634	20.865	2.963	88.72	76.6	2771	2771	2.02	14.176	-1.017	0.673	4.456	0.948	38.7	
1200S200-97	0.1017	33	5.71	1.677	30.428	5.071	4.259	0.635	0.615	30.418	4.899	96.81	95.49	8147	7411	5.783	19.15	-0.987	0.656	4.415	0.95	47	
1200S200-97	0.1017	50	5.71	1.677	30.428	5.071	4.259	0.635	0.615	30.177	4.66	139.52	126.94	8147	7411	5.783	19.15	-0.987	0.656	4.415	0.95	38.1	
1200S200-118	0.1242	33	6.9	2.028	36.361	6.06	4.235	0.733	0.601	36.349	6.058	119.71	119.75	13189	9714	10.427	22.451	-0.964	0.644	4.384	0.952	46.6	
1200S200-118	0.1242	50	6.9	2.028	36.361	6.06	4.235	0.733	0.601	36.349	5.865	175.61	166.9	14986	11037	10.427	22.451	-0.964	0.644	4.384	0.952	37.7	
1400S200-54	0.0566	33	3.63	1.066	25.961	3.709	4.936	0.406	0.617	23.768	2.866	56.63	48.21	1177	1177	1.138	16.355	-0.946	0.633	5.063	0.965	47	
1400S200-54	0.0566	50	3.63	1.066	25.961	3.709	4.936	0.406	0.617	23.201	2.44	73.06	61.71	1177	1177	1.138	16.355	-0.946	0.633	5.063	0.965	38.2	
1400S200-68	0.0713	33	4.54	1.335	32.297	4.614	4.919	0.494	0.608	30.686	3.824	75.56	67.54	2365	2365	2.262	20.083	-0.932	0.625	5.043	0.966	46.7	
1400S200-68	0.0713	50	4.54	1.335	32.297	4.614	4.919	0.494	0.608	29.798	3.505	104.93	87.16	2365	2365	2.262	20.083	-0.932	0.625	5.043	0.966	37.9	
1400S200-97	0.1017	33	6.4	1.881	44.87	6.41	4.884	0.655	0.59	44.687	5.918	116.94	111.94	6939	6939	4.684	27.156	-0.904	0.609	5.002	0.967	45.9	
1400S200-97	0.1017	50	6.4	1.881	44.87	6.41	4.884	0.655	0.59	43.619	5.58	167.08	147.07	6939	6939	4.684	27.156	-0.904	0.609	5.002	0.967	37.3	
1400S200-118	0.1242	33	7.74	2.276	53.719	7.674	4.858	0.756	0.576	53.7	7.481	147.82	146.8	12745	11287	11.704	31.861	-0.883	0.598	4.971	0.968	45.4	
1400S200-118	0.1242	50	7.74	2.276	53.719	7.674	4.858	0.756	0.576	53.525	7.097	212.48	195.75	12745	11287	11.704	31.861	-0.883	0.598	4.971	0.968	36.8	
1600S200-68	0.0713	33	5.03	1.477	45.31	5.664	5.538	0.506	0.585	41.918	4.431	87.56	75.16	2062	2062	2.503	27.155	-0.862	0.584	5.635	0.977	45.7	
1600S200-68	0.0713	50	5.03	1.477	45.31	5.664	5.538	0.506	0.585	40.526	4.045	121.11	96.33	2062	2062	2.503	27.155	-0.862	0.584	5.635	0.977	37.1	
1600S200-97	0.1017	33	7.09	2.084	63.076	7.885	5.501	0.671	0.567	61.76	6.938	137.1	126.87	6043	6043	7.186	36.744	-0.835	0.569	5.593	0.978	44.9	
1600S200-97	0.1017	50	7.09	2.084	63.076	7.885	5.501	0.															

STRUCTURAL STUD SECTION PROPERTIES																						
MEMBER	DESIGN THICKNESS	KSI	WEIGHT	AREA	GROSS PROPERTIES					EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES						
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _a	M _{ed}	V _{ag}	V _{a_{net}}	J x 1000	C _w	X _c	m	R _o	β	L _u
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)		(in)
800S250-97	0.1017	50	4.67	1.372	12.793	3.198	3.053	1.009	0.858	12.79	3.054	102.7	93.46	10885	5938	4.731	13.091	-1.607	1.008	3.555	0.796	46.4
800S250-118	0.1242	33	5.63	1.655	15.246	3.811	3.035	1.176	0.843	15.243	3.811	88.32	88.33	11341	4971	8.511	15.395	-1.58	0.994	3.524	0.799	55.9
800S250-118	0.1242	50	5.63	1.655	15.246	3.811	3.035	1.176	0.843	15.243	3.707	127.52	122.98	16235	7115	8.511	15.395	-1.58	0.994	3.524	0.799	45.6
1000S250-43	0.0451	33	2.44	0.717	10.205	2.041	3.771	0.531	0.86	10.203	1.617	31.95	27.68	836	836	0.486	10.481	-1.518	0.965	4.155	0.867	60.7
1000S250-54	0.0566	33	3.05	0.896	12.681	2.536	3.762	0.653	0.854	12.677	2.277	44.99	38.04	1661	1661	0.957	12.922	-1.505	0.958	4.141	0.868	60.5
1000S250-54	0.0566	50	3.05	0.896	12.681	2.536	3.762	0.653	0.854	12.661	1.879	56.27	49.19	1661	1661	0.957	12.922	-1.505	0.958	4.141	0.868	49.1
1000S250-68	0.0713	33	3.81	1.121	15.756	3.151	3.749	0.799	0.844	15.752	3.028	65.93	55.64	3345	3345	1.899	15.909	-1.488	0.95	4.121	0.87	57.3
1000S250-68	0.0713	50	3.81	1.121	15.756	3.151	3.749	0.799	0.844	15.742	2.769	82.9	68.16	3345	3345	1.899	15.909	-1.488	0.95	4.121	0.87	48.8
1000S250-97	0.1017	33	5.36	1.576	21.834	4.367	3.722	1.073	0.825	21.828	4.357	98.41	91.82	8843	6434	5.433	21.632	-1.454	0.932	4.08	0.873	55.8
1000S250-97	0.1017	50	5.36	1.576	21.834	4.367	3.722	1.073	0.825	21.828	4.181	140.63	120.2	9864	7177	5.433	21.632	-1.454	0.932	4.08	0.873	45.6
1000S250-118	0.1242	33	6.48	1.904	26.088	5.218	3.702	1.251	0.811	26.082	5.216	120.89	120.77	13189	7747	9.788	25.49	-1.428	0.918	4.05	0.876	54.7
1000S250-118	0.1242	50	6.48	1.904	26.088	5.218	3.702	1.251	0.811	26.082	5.083	174.85	159.88	16235	9536	9.788	25.49	-1.428	0.918	4.05	0.876	44.8
1200S250-54	0.0566	33	3.43	1.009	19.687	3.281	4.417	0.683	0.823	18.832	2.483	49.06	45.45	1377	1377	1.078	19.505	-1.378	0.892	4.699	0.914	59.5
1200S250-54	0.0566	50	3.43	1.009	19.687	3.281	4.417	0.683	0.823	18.837	2.149	64.34	58.42	1377	1377	1.078	19.505	-1.378	0.892	4.699	0.914	48.3
1200S250-68	0.0713	33	4.3	1.263	24.491	4.082	4.403	0.836	0.813	23.964	3.496	69.08	62.98	2771	2771	2.141	24.034	-1.362	0.884	4.68	0.915	59.2
1200S250-68	0.0713	50	4.3	1.263	24.491	4.082	4.403	0.836	0.813	23.576	3.007	90.04	81.64	2771	2771	2.141	24.034	-1.362	0.884	4.68	0.915	48.1
1200S250-97	0.1017	33	6.05	1.779	34.027	5.671	4.373	1.122	0.794	34.017	5.496	108.6	102.58	8147	7411	6.134	32.734	-1.329	0.867	4.639	0.918	58.6
1200S250-97	0.1017	50	6.05	1.779	34.027	5.671	4.373	1.122	0.794	33.837	5.038	150.83	135.45	8147	7411	6.134	32.734	-1.329	0.867	4.639	0.918	47.5
1200S250-118	0.1242	33	7.32	2.152	40.74	6.79	4.351	1.308	0.78	40.728	6.788	134.13	133.26	13189	9714	11.065	38.619	-1.305	0.854	4.609	0.92	58.2
1200S250-118	0.1242	50	7.32	2.152	40.74	6.79	4.351	1.308	0.78	40.728	6.542	195.86	178.67	14986	11037	11.065	38.619	-1.305	0.854	4.609	0.92	47.1
1400S250-54	0.0566	33	3.82	1.122	28.712	4.102	5.058	0.707	0.794	26.759	2.927	57.84	52.11	1177	1177	1.198	27.675	-1.272	0.835	5.275	0.942	58.6
1400S250-54	0.0566	50	3.82	1.122	28.712	4.102	5.058	0.707	0.794	26.148	2.527	75.65	66.62	1177	1177	1.198	27.675	-1.272	0.835	5.275	0.942	47.6
1400S250-68	0.0713	33	4.78	1.406	35.755	5.108	5.043	0.865	0.784	34.241	4.145	81.91	72.86	2365	2365	2.383	34.118	-1.257	0.827	5.256	0.943	58.3
1400S250-68	0.0713	50	4.78	1.406	35.755	5.108	5.043	0.865	0.784	33.568	3.55	106.3	93.84	2365	2365	2.383	34.118	-1.257	0.827	5.256	0.943	47.3
1400S250-97	0.1017	33	6.74	1.983	49.781	7.112	5.011	1.161	0.765	49.583	6.611	130.65	120.72	6939	6939	6.835	46.52	-1.225	0.811	5.215	0.945	57.6
1400S250-97	0.1017	50	6.74	1.983	49.781	7.112	5.011	1.161	0.765	48.652	6.011	179.96	158.04	6939	6939	6.835	46.52	-1.225	0.811	5.215	0.945	46.7
1400S250-118	0.1242	33	8.17	2.4	59.697	8.528	4.987	1.353	0.751	59.678	8.331	164.62	158.71	12745	11287	12.342	54.927	-1.203	0.798	5.185	0.946	57.1
1400S250-118	0.1242	50	8.17	2.4	59.697	8.528	4.987	1.353	0.751	59.508	7.881	235.96	210.55	12745	11287	12.342	54.927	-1.203	0.798	5.185	0.946	46.2
1600S250-68	0.0713	33	5.27	1.549	49.832	6.229	5.673	0.889	0.758	46.61	4.793	94.7	81.74	2062	2062	2.624	46.23	-1.167	0.778	5.841	0.96	57.3
1600S250-68	0.0713	50	5.27	1.549	49.832	6.229	5.673	0.889	0.758	45.551	4.092	122.52	104.69	2062	2062	2.624	46.23	-1.167	0.778	5.841	0.96	46.5
1600S250-97	0.1017	33	7.44	2.186	69.503	8.688	5.639	1.193	0.739	68.162	7.729	152.72	137.55	6043	6043	7.536	63.082	-1.138	0.762	5.8	0.962	56.5
1600S250-97	0.1017	50	7.44	2.186	69.503	8.688	5.639	1.193	0.739	66.581	6.983	209.07	178.72	6043	6043	7.536	63.082	-1.138	0.762	5.8	0.962	45.9
1600S250-118	0.1242	33	9.01	2.649	83.459	10.432	5.613	1.39	0.724	83.429	9.828	194.2	182.77	11088	11088	13.62	74.524	-1.116	0.75	5.769	0.963	56
1600S250-118	0.1242	50	9.01	2.649	83.459	10.432	5.613	1.39	0.724	81.927	9.223	276.13	240.23	11088	11088	13.62	74.524	-1.116	0.75	5.769	0.963	45.4
362S300-33	0.0346	33	1.24	0.366	0.871	0.481	1.543	0.463	1.125				6.89	1024	521	0.146	1.478	-2.686	1.537	3.296	0.336	74.3
362S300-43	0.0451	33	1.62	0.475	1.125	0.621	1.539	0.596	1.12				9.85	1739	676	0.322	1.888	-2.674	1.53	3.282	0.336	74.3
362S300-54	0.0566	33	2.01	0.592	1.391	0.767	1.533	0.734	1.114	1.379	0.607	11.99	13.22	2341	705	0.632	2.316	-2.659	1.522	3.265	0.337	74.5
362S300-54	0.0566	50	2.01	0.592	1.391	0.767	1.533	0.734	1.114	1.295	0.529	15.83	17.35	3372	1016	0.632	2.316	-2.659	1.522	3.265	0.337	60.2
362S300-68	0.0713	33	2.51	0.738	1.716	0.947	1.525	0.9	1.105	1.715	0.811	16.02	17.65	2884	662	1.25	2.833	-2.64	1.512	3.243	0.337	74.9
362S300-68	0.0713	50	2.51	0.738	1.716	0.947	1.525	0.9	1.105	1.681	0.716	21.45	23.43	4370	1004	1.25	2.833	-2.64	1.512	3.243	0.337	60.4
362S300-97	0.1017	33	3.5	1.029	2.343	1.293																

STRUCTURAL STUD SECTION PROPERTIES																							
MEMBER	DESIGN THICKNESS	KSI	WEIGHT	AREA	GROSS PROPERTIES					EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES							
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _a	M _{ad}	V _{ag}	V _{a_{net}}	J x 1000	C _w	X _o	m	R _o	β	L _u	
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)			
1200S300-54	0.0566	33	3.63	1.066	21.705	3.618	4.513	1.074	1.004	21.65	2.736	54.06	47.38	1377	1377	1.138	30.051	-1.743	1.111	4.941	0.876	70.7	
1200S300-54	0.0566	50	3.63	1.066	21.705	3.618	4.513	1.074	1.004	21.045	2.273	68.04	60.68	1377	1377	1.138	30.051	-1.743	1.111	4.941	0.876	57.4	
1200S300-68	0.0713	33	4.54	1.335	27.028	4.505	4.5	1.32	0.994	26.919	4.064	80.31	65.75	2771	2771	2.262	37.126	-1.726	1.103	4.921	0.877	70.5	
1200S300-68	0.0713	50	4.54	1.335	27.028	4.505	4.5	1.32	0.994	26.51	3.317	99.33	84.83	2771	2771	2.262	37.126	-1.726	1.103	4.921	0.877	57.2	
1200S300-97	0.1017	33	6.4	1.881	37.627	6.271	4.473	1.787	0.975	37.617	6.035	133.59	116.12	8147	7411	6.484	50.853	-1.691	1.085	4.88	0.88	66	
1200S300-97	0.1017	50	6.4	1.881	37.627	6.271	4.473	1.787	0.975	37.087	5.831	174.58	141.13	8147	7411	6.484	50.853	-1.691	1.085	4.88	0.88	56.7	
1200S300-118	0.1242	33	7.74	2.276	45.119	7.52	4.452	2.096	0.96	45.107	7.323	165.77	154.73	13189	9714	11.704	60.251	-1.666	1.071	4.85	0.882	64.9	
1200S300-118	0.1242	50	7.74	2.276	45.119	7.52	4.452	2.096	0.96	44.722	7.232	243.68	201.79	14986	11037	11.704	60.251	-1.666	1.071	4.85	0.882	53	
1400S300-54	0.0566	33	4.01	1.179	31.463	4.495	5.166	1.115	0.972	29.584	3.019	59.66	54.77	1177	1177	1.259	42.69	-1.617	1.046	5.5	0.914	69.9	
1400S300-54	0.0566	50	4.01	1.179	31.463	4.495	5.166	1.115	0.972	27.235	2.58	77.26	69.85	1177	1177	1.259	42.69	-1.617	1.046	5.5	0.914	56.8	
1400S300-68	0.0713	33	5.03	1.477	39.213	5.602	5.152	1.37	0.963	37.904	4.237	83.72	76.55	2365	2365	2.503	52.772	-1.601	1.038	5.48	0.915	69.6	
1400S300-68	0.0713	50	5.03	1.477	39.213	5.602	5.152	1.37	0.963	36.295	3.655	109.43	98.3	2365	2365	2.503	52.772	-1.601	1.038	5.48	0.915	56.5	
1400S300-97	0.1017	33	7.09	2.084	54.692	7.813	5.123	1.854	0.943	54.577	7.035	139.02	127.07	6939	6939	7.186	72.365	-1.568	1.02	5.44	0.917	68.9	
1400S300-97	0.1017	50	7.09	2.084	54.692	7.813	5.123	1.854	0.943	53.232	6.373	190.8	165.54	6939	6939	7.186	72.365	-1.568	1.02	5.44	0.917	55.9	
1400S300-118	0.1242	33	8.59	2.525	65.676	9.382	5.1	2.175	0.928	65.657	9.046	178.76	167.63	12745	11287	12.981	85.812	-1.544	1.008	5.409	0.919	68.5	
1400S300-118	0.1242	50	8.59	2.525	65.676	9.382	5.1	2.175	0.928	65.574	8.427	252.31	220.94	12745	11287	12.981	85.812	-1.544	1.008	5.409	0.919	55.5	
1600S300-68	0.0713	33	5.51	1.62	54.355	6.794	5.793	1.411	0.933	51.472	4.893	96.68	86.51	2062	2062	2.745	71.608	-1.494	0.981	6.055	0.939	68.7	
1600S300-68	0.0713	50	5.51	1.62	54.355	6.794	5.793	1.411	0.933	49.116	4.21	126.05	110.6	2062	2062	2.745	71.608	-1.494	0.981	6.055	0.939	55.8	
1600S300-97	0.1017	33	7.78	2.288	75.929	9.491	5.761	1.91	0.914	74.744	8.203	162.1	145.47	6043	6043	7.887	98.275	-1.463	0.964	6.014	0.941	67.9	
1600S300-97	0.1017	50	7.78	2.288	75.929	9.491	5.761	1.91	0.914	72.678	7.391	221.3	188.44	6043	6043	7.887	98.275	-1.463	0.964	6.014	0.941	55.1	
1600S300-118	0.1242	33	9.43	2.773	91.284	11.411	5.738	2.24	0.899	91.255	10.638	210.21	193.58	11088	11088	14.258	116.606	-1.439	0.951	5.983	0.942	67.4	
1600S300-118	0.1242	50	9.43	2.773	91.284	11.411	5.738	2.24	0.899	89.916	9.836	294.49	253.4	11088	11088	14.258	116.606	-1.439	0.951	5.983	0.942	54.7	
600S350-54	0.0566	33	2.81	0.825	5.023	1.674	2.467	1.491	1.344	4.912	1.453	28.7	27.98	2739	1890	0.881	12.942	-3.037	1.787	4.137	0.461	91.8	
600S350-54	0.0566	50	2.81	0.825	5.023	1.674	2.467	1.491	1.344	4.722	1.335	39.98	36.57	2823	1947	0.881	12.942	-3.037	1.787	4.137	0.461	74.4	
600S350-68	0.0713	33	3.51	1.032	6.238	2.079	2.459	1.841	1.336	6.237	1.949	38.51	37.64	4347	2339	1.748	15.968	-3.018	1.777	4.116	0.462	91.8	
600S350-68	0.0713	50	3.51	1.032	6.238	2.079	2.459	1.841	1.336	6.167	1.771	53.02	49.71	5350	2879	1.748	15.968	-3.018	1.777	4.116	0.462	74.4	
600S350-97	0.1017	33	4.93	1.449	8.633	2.878	2.441	2.518	1.318	8.632	2.823	61.56	62.5	6911	2512	4.994	21.811	-2.979	1.757	4.071	0.464	87.5	
600S350-97	0.1017	50	4.93	1.449	8.633	2.878	2.441	2.518	1.318	8.632	2.594	77.65	78.38	10472	3806	4.994	21.811	-2.979	1.757	4.071	0.464	74.4	
600S350-118	0.1242	33	5.95	1.748	10.306	3.435	2.428	2.979	1.305	10.306	3.435	76.41	76.41	8267	2391	8.99	25.791	-2.951	1.742	4.038	0.466	86.9	
600S350-118	0.1242	50	5.95	1.748	10.306	3.435	2.428	2.979	1.305	10.306	3.268	108.45	107.7	12526	3622	8.99	25.791	-2.951	1.742	4.038	0.466	70.6	
800S350-54	0.0566	33	3.19	0.938	9.685	2.421	3.213	1.646	1.324	9.478	2.125	41.98	38.3	2091	2091	1.002	22.897	-2.766	1.668	4.442	0.612	90	
800S350-54	0.0566	50	3.19	0.938	9.685	2.421	3.213	1.646	1.324	9.191	1.869	55.97	49.75	2091	2091	1.002	22.897	-2.766	1.668	4.442	0.612	73.1	
800S350-68	0.0713	33	4	1.174	12.048	3.012	3.203	2.034	1.316	12.046	2.838	56.07	51.9	4221	3367	1.99	28.308	-2.748	1.658	4.421	0.614	89.9	
800S350-68	0.0713	50	4	1.174	12.048	3.012	3.203	2.034	1.316	11.91	2.596	77.74	68.07	4221	3367	1.99	28.308	-2.748	1.658	4.421	0.614	72.9	
800S350-97	0.1017	33	5.62	1.652	16.741	4.185	3.183	2.784	1.298	16.739	4.101	89.44	87.27	8843	4824	5.696	38.834	-2.71	1.639	4.378	0.617	85.4	
800S350-97	0.1017	50	5.62	1.652	16.741	4.185	3.183	2.784	1.298	16.739	3.786	113.35	108.71	10885	5938	5.696	38.834	-2.71	1.639	4.378	0.617	72.7	
800S350-118	0.1242	33	6.79	1.997	20.045	5.011	3.168	3.296	1.285	20.043	5.011	111.45	111.46	11341	4971	10.267	46.068	-2.682	1.624	4.346	0.619	84.6	
800S350-118	0.1242	50	6.79	1.997	20.045	5.011	3.168	3.296	1.285	20.043	4.763	158.04	150.43	16235	7115	10.267	46.068	-2.682	1.624	4.346	0.619	68.9	
1000S350-54	0.0566	33	3.58	1.052	16.223	3.245	3.928	1.768	1.297	15.943	2.772	54.77	48.71	1661	1661	1.123	36.575	-2.546	1.566	4.857	0.725	88.9	
1000S350-54	0.0566	50	3.58	1.052	16.223	3.245	3.928	1.768	1.297	15.578	2.328	69.7	62.99	1661	1661	1.123	36.575	-2.546	1.566	4.857	0.725	72.2	
1000S350-68	0.0713	33	4.48	1.317																			

TRACK SECTION PROPERTIES

TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	VA _G	J X 1000	C _w	X ₀	M	R ₀	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
162T125-18	0.0188	33	0.078	0.26	0.042	0.048	0.733	0.013	0.411	0.03	0.025	0.5	302	0.0091	0.007	-0.876	0.503	1.215	0.479
162T125-27	0.0283	33	0.117	0.4	0.063	0.072	0.735	0.02	0.41	0.051	0.044	0.87	541	0.0312	0.01	-0.872	0.501	1.211	0.482
162T125-30	0.0312	33	0.129	0.44	0.07	0.079	0.735	0.022	0.409	0.057	0.05	1	597	0.0417	0.012	-0.87	0.5	1.21	0.483
162T125-33	0.0346	33	0.143	0.49	0.077	0.087	0.736	0.024	0.408	0.066	0.058	1.15	663	0.0569	0.013	-0.868	0.499	1.209	0.484
162T125-43	0.0451	33	0.60	0.186	0.101	0.113	0.737	0.030	0.404	0.093	0.085	1.68	897	0.120	0.016	-0.864	0.501	1.205	0.487
162T125-43	0.0451	50	0.60	0.186	0.101	0.113	0.737	0.030	0.404	0.092	0.082	2.44	1360	0.120	0.016	-0.864	0.501	1.205	0.487
162T125-54	0.0566	33	0.76	0.235	0.133	0.145	0.751	0.038	0.404	0.131	0.143	2.82	1149	0.240	0.021	-0.854	0.499	1.210	0.502
162T125-54	0.0566	50	0.76	0.235	0.133	0.145	0.751	0.038	0.404	0.130	0.137	4.10	1742	0.240	0.021	-0.854	0.499	1.210	0.502
250T125-18	0.0188	33	0.094	0.32	0.104	0.079	1.052	0.015	0.4	0.078	0.044	0.88	245	0.0111	0.018	-0.767	0.46	1.362	0.682
250T125-27	0.0283	33	0.141	0.48	0.157	0.119	1.053	0.022	0.398	0.129	0.079	1.56	685	0.0378	0.027	-0.763	0.457	1.36	0.685
250T125-30	0.0312	33	0.156	0.53	0.173	0.131	1.053	0.025	0.397	0.145	0.09	1.77	832	0.0506	0.03	-0.762	0.456	1.359	0.686
250T125-33	0.0346	33	0.173	0.59	0.192	0.145	1.054	0.027	0.397	0.166	0.103	2.03	1024	0.069	0.033	-0.76	0.456	1.358	0.687
250T125-43	0.0451	33	0.225	0.77	0.25	0.188	1.055	0.035	0.395	0.231	0.147	2.91	1356	0.1526	0.042	-0.755	0.453	1.356	0.69
250T125-54	0.0566	33	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.31	0.203	4.01	1692	0.3015	0.054	-0.749	0.449	1.357	0.696
250T125-54	0.0566	50	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.297	0.188	5.64	2563	0.3015	0.054	-0.749	0.449	1.357	0.696
250T125-68	0.0713	33	0.355	1.21	0.409	0.297	1.072	0.054	0.389	0.409	0.281	5.56	2112	0.6022	0.069	-0.74	0.444	1.36	0.704
250T125-68	0.0713	50	0.355	1.21	0.409	0.297	1.072	0.054	0.389	0.403	0.262	7.85	3199	0.6022	0.069	-0.74	0.444	1.36	0.704
350T125-18	0.0188	33	0.113	0.38	0.22	0.121	1.395	0.017	0.382	0.174	0.062	1.22	173	0.0133	0.038	-0.675	0.418	1.596	0.821
350T125-27	0.0283	33	0.17	0.58	0.331	0.182	1.396	0.025	0.381	0.277	0.128	2.53	590	0.0453	0.057	-0.67	0.416	1.595	0.823
350T125-30	0.0312	33	0.187	0.64	0.365	0.2	1.396	0.027	0.38	0.312	0.145	2.86	790	0.0607	0.063	-0.669	0.415	1.594	0.824
350T125-33	0.0346	33	0.207	0.71	0.405	0.222	1.397	0.03	0.379	0.355	0.165	3.27	1024	0.0828	0.07	-0.668	0.414	1.594	0.824
350T125-43	0.0451	33	0.27	0.92	0.528	0.288	1.398	0.038	0.377	0.49	0.233	4.61	1739	0.1832	0.09	-0.663	0.412	1.592	0.826
350T125-54	0.0566	33	0.339	1.15	0.668	0.361	1.404	0.048	0.375	0.651	0.317	6.26	2392	0.3619	0.114	-0.658	0.408	1.595	0.83
350T125-54	0.0566	50	0.339	1.15	0.668	0.361	1.404	0.048	0.375	0.626	0.297	8.9	3372	0.3619	0.114	-0.658	0.408	1.595	0.83
350T125-68	0.0713	33	0.427	1.45	0.851	0.454	1.412	0.059	0.372	0.851	0.433	8.55	2994	0.7231	0.144	-0.65	0.403	1.599	0.835
350T125-68	0.0713	50	0.427	1.45	0.851	0.454	1.412	0.059	0.372	0.839	0.407	12.19	4536	0.7231	0.144	-0.65	0.403	1.599	0.835
350T125-97	0.1017	33	0.608	2.07	1.243	0.645	1.43	0.081	0.366	1.243	0.645	14.57	4213	2.096	0.209	-0.636	0.394	1.607	0.844
350T125-97	0.1017	50	0.608	2.07	1.243	0.645	1.43	0.081	0.366	1.243	0.645	21.69	6383	2.096	0.209	-0.636	0.394	1.607	0.844
362T125-18	0.0188	33	0.115	0.39	0.238	0.127	1.437	0.017	0.38	0.189	0.064	1.26	167	0.0136	0.042	-0.665	0.413	1.628	0.833
362T125-27	0.0283	33	0.173	0.59	0.358	0.191	1.438	0.025	0.378	0.301	0.135	2.66	569	0.0463	0.062	-0.661	0.411	1.627	0.835
362T125-30	0.0312	33	0.191	0.65	0.395	0.21	1.438	0.027	0.378	0.339	0.152	3.01	762	0.062	0.068	-0.659	0.41	1.627	0.836
362T125-33	0.0346	33	0.212	0.72	0.438	0.232	1.439	0.03	0.377	0.385	0.174	3.44	1024	0.0845	0.076	-0.658	0.41	1.626	0.836
362T125-43	0.0451	33	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.531	0.245	4.84	1739	0.187	0.098	-0.654	0.407	1.625	0.838
362T125-54	0.0566	33	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.705	0.332	6.57	2480	0.3695	0.123	-0.648	0.404	1.627	0.841
362T125-54	0.0566	50	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.678	0.312	9.34	3372	0.3695	0.123	-0.648	0.404	1.627	0.841
362T125-68	0.0713	33	0.436	1.48	0.921	0.475	1.454	0.06	0.37	0.921	0.453	8.96	3104	0.7382	0.156	-0.641	0.399	1.631	0.846
362T125-68	0.0713	50	0.436	1.48	0.921	0.475	1.454	0.06	0.37	0.908	0.427	12.78	4703	0.7382	0.156	-0.641	0.399	1.631	0.846
362T125-97	0.1017	33	0.621	2.11	1.344	0.675	1.471	0.082	0.364	1.343	0.675	15.25	4339	2.1398	0.226	-0.626	0.39	1.64	0.854
362T125-97	0.1017	50	0.621	2.11	1.344	0.675	1.471	0.082	0.364	1.343	0.675	22.7	6574	2.1398	0.226	-0.626	0.39	1.64	0.854
400T125-18	0.0188	33	0.122	0.42	0.298	0.145	1.562	0.017	0.374	0.241	0.07	1.39	151	0.0144	0.052	-0.637	0.4	1.727	0.864
400T125-27	0.0283	33	0.184	0.63	0.449	0.217	1.562	0.025	0.372	0.38	0.156	3.08	515	0.0491	0.078	-0.633	0.398	1.726	0.866
400T125-30	0.0312	33	0.203	0.69	0.495	0.239	1.563	0.028	0.371	0.427	0.176	3.49	689	0.0658	0.085	-0.632	0.397	1.726	0.866
400T125-33	0.0346	33	0.225	0.76	0.549	0.265	1.563	0.031	0.371	0.484	0.201	3.97	940	0.0897	0.095	-0.63	0.396	1.725	0.867
400T125-43	0.0451	33	0.293	1	0.716	0.344	1.564	0.04	0.369	0.666	0.282	5.57	1739	0.1985	0.122	-0.626	0.394	1.724	0.868
400T125-54	0.0566	33	0.367	1.25	0.904	0.431	1.569	0.049	0.366	0.883	0.381	7.53	2739	0.3921	0.154	-0.621	0.39	1.727	0.871
400T125-54	0.0566	50	0.367	1.25	0.904	0.431	1.569	0.049	0.366	0.85	0.359	10.74	3372	0.3921	0.154	-0.621	0.39	1.727	0.871
400T125-68	0.0713	33	0.462	1.57	1.151	0.541	1.577	0.061	0.364	1.15	0.517	10.22	3435	0.7835	0.194	-0.614	0.386	1.731	0.874

TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	VA _G	J X 1000	C _w	X _o	M	R _o	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
800T125-68	0.0713	33	0.748	2.54	6	1.455	2.833	0.07	0.307	5.998	1.357	26.81	4087	1.2668	0.92	-0.427	0.286	2.881	0.978
800T125-68	0.0713	50	0.748	2.54	6	1.455	2.833	0.07	0.307	5.956	1.216	36.4	4087	1.2668	0.92	-0.427	0.286	2.881	0.978
800T125-97	0.1017	33	1.066	3.63	8.617	2.062	2.844	0.097	0.301	8.614	2.062	40.74	8843	3.6738	1.296	-0.417	0.279	2.89	0.979
800T125-97	0.1017	50	1.066	3.63	8.617	2.062	2.844	0.097	0.301	8.614	2.062	61.72	10885	3.6738	1.296	-0.417	0.279	2.89	0.979
1000T125-43	0.0451	33	0.563	1.92	6.633	1.306	3.431	0.047	0.29	5.887	0.819	16.19	822	0.3819	0.973	-0.379	0.259	3.465	0.988
1000T125-54	0.0566	33	0.707	2.4	8.337	1.635	3.434	0.059	0.288	7.961	1.216	24.03	1628	0.7548	1.212	-0.376	0.256	3.467	0.988
1000T125-54	0.0566	50	0.707	2.4	8.337	1.635	3.434	0.059	0.288	7.48	1.055	31.59	1628	0.7548	1.212	-0.376	0.256	3.467	0.988
1000T125-68	0.0713	33	0.89	3.03	10.53	2.054	3.439	0.073	0.286	10.45	1.781	35.19	3261	1.5084	1.515	-0.372	0.253	3.471	0.989
1000T125-68	0.0713	50	0.89	3.03	10.53	2.054	3.439	0.073	0.286	10.16	1.575	47.15	3261	1.5084	1.515	-0.372	0.253	3.471	0.989
1000T125-97	0.1017	33	1.269	4.32	15.08	2.913	3.448	0.1	0.281	15.08	2.907	57.44	8843	4.3751	2.123	-0.363	0.247	3.478	0.989
1000T125-97	0.1017	50	1.269	4.32	15.08	2.913	3.448	0.1	0.281	15.08	2.753	82.42	9507	4.3751	2.123	-0.363	0.247	3.478	0.989
1200T125-54	0.0566	33	0.82	2.79	13.34	2.187	4.034	0.06	0.271	12.3	1.492	29.47	1354	0.8756	1.82	-0.333	0.23	4.056	0.993
1200T125-54	0.0566	50	0.82	2.79	13.34	2.187	4.034	0.06	0.271	11.46	1.286	38.51	1354	0.8756	1.82	-0.333	0.23	4.056	0.993
1200T125-68	0.0713	33	1.033	3.51	16.83	2.749	4.037	0.074	0.268	16.25	2.206	43.6	2713	1.7501	2.27	-0.329	0.227	4.06	0.993
1200T125-68	0.0713	50	1.033	3.51	16.83	2.749	4.037	0.074	0.268	15.69	1.934	57.9	2713	1.7501	2.27	-0.329	0.227	4.06	0.993
1200T125-97	0.1017	33	1.472	5.01	24.09	3.899	4.045	0.102	0.264	24.08	3.69	72.92	7902	5.0763	3.171	-0.322	0.222	4.066	0.994
1200T125-97	0.1017	50	1.472	5.01	24.09	3.899	4.045	0.102	0.264	23.75	3.443	103.1	7902	5.0763	3.171	-0.322	0.222	4.066	0.994
1400T125-54	0.0566	33	0.933	3.17	19.99	2.815	4.628	0.061	0.256	17.73	1.767	34.92	1160	0.9965	2.559	-0.299	0.209	4.645	0.996
1400T125-54	0.0566	50	0.933	3.17	19.99	2.815	4.628	0.061	0.256	16.41	1.517	45.42	1160	0.9965	2.559	-0.299	0.209	4.645	0.996
1400T125-68	0.0713	33	1.175	4	25.21	3.538	4.631	0.076	0.254	23.56	2.632	52.02	2322	1.9917	3.189	-0.296	0.206	4.648	0.996
1400T125-68	0.0713	50	1.175	4	25.21	3.538	4.631	0.076	0.254	22.62	2.293	68.65	2322	1.9917	3.189	-0.296	0.206	4.648	0.996
1400T125-97	0.1017	33	1.676	5.7	36.04	5.021	4.638	0.104	0.249	35.78	4.48	88.53	6761	5.7776	4.444	-0.289	0.201	4.653	0.996
1400T125-97	0.1017	50	1.676	5.7	36.04	5.021	4.638	0.104	0.249	34.59	4.134	123.8	6761	5.7776	4.444	-0.289	0.201	4.653	0.996
1400T125-118	0.1242	33	2.046	6.96	44.09	6.109	4.642	0.124	0.246	44.07	5.854	115.7	12344	10.52	5.334	-0.284	0.197	4.657	0.996
1400T125-118	0.1242	50	2.046	6.96	44.09	6.109	4.642	0.124	0.246	43.75	5.454	163.3	12344	10.52	5.334	-0.284	0.197	4.657	0.996
1600T125-54	0.0566	33	1.046	3.56	28.5	3.519	5.219	0.062	0.243	24.29	2.042	40.35	1014	1.1174	3.432	-0.272	0.191	5.232	0.997
1600T125-54	0.0566	50	1.046	3.56	28.5	3.519	5.219	0.062	0.243	22.36	1.748	52.33	1014	1.1174	3.432	-0.272	0.191	5.232	0.997
1600T125-68	0.0713	33	1.318	4.48	35.94	4.423	5.222	0.077	0.241	32.45	3.058	60.42	2030	2.2333	4.273	-0.268	0.189	5.234	0.997
1600T125-68	0.0713	50	1.318	4.48	35.94	4.423	5.222	0.077	0.241	31.01	2.651	79.38	2030	2.2333	4.273	-0.268	0.189	5.234	0.997
1600T125-97	0.1017	33	1.879	6.39	51.35	6.279	5.227	0.105	0.237	49.85	5.273	104.2	5908	6.4788	5.945	-0.262	0.184	5.239	0.997
1600T125-97	0.1017	50	1.879	6.39	51.35	6.279	5.227	0.105	0.237	47.84	4.826	144.5	5908	6.4788	5.945	-0.262	0.184	5.239	0.997
1600T125-118	0.1242	33	2.294	7.81	62.79	7.641	5.231	0.125	0.234	62.76	6.965	137.6	10783	11.797	7.126	-0.257	0.181	5.243	0.998
1600T125-118	0.1242	50	2.294	7.81	62.79	7.641	5.231	0.125	0.234	60.94	6.42	192.2	10783	11.797	7.126	-0.257	0.181	5.243	0.998
250T150-27	0.0283	33	0.156	0.53	0.181	0.137	1.078	0.037	0.486	0.139	0.082	1.61	685	0.0415	0.044	-0.976	0.575	1.534	0.595
250T150-30	0.0312	33	0.172	0.58	0.2	0.151	1.078	0.04	0.486	0.157	0.093	1.83	832	0.0557	0.049	-0.975	0.574	1.533	0.595
250T150-33	0.0346	33	0.19	0.65	0.221	0.167	1.079	0.045	0.485	0.18	0.107	2.11	1024	0.0759	0.054	-0.973	0.573	1.532	0.596
250T150-43	0.0451	33	0.248	0.84	0.289	0.217	1.08	0.058	0.483	0.252	0.154	3.03	1356	0.1679	0.07	-0.968	0.57	1.529	0.599
250T150-54	0.0566	33	0.311	1.06	0.368	0.273	1.088	0.072	0.481	0.342	0.214	4.22	1692	0.3317	0.089	-0.961	0.566	1.53	0.605
250T150-54	0.0566	50	0.311	1.06	0.368	0.273	1.088	0.072	0.481	0.325	0.197	5.89	2563	0.3317	0.089	-0.961	0.566	1.53	0.605
250T150-68	0.0713	33	0.391	1.33	0.472	0.344	1.099	0.089	0.478	0.465	0.299	5.92	2112	0.6627	0.114	-0.953	0.561	1.531	0.613
250T150-68	0.0713	50	0.391	1.33	0.472	0.344	1.099	0.089	0.478	0.445	0.276	8.27	3199	0.6627	0.114	-0.953	0.561	1.531	0.613
350T150-27	0.0283	33	0.184	0.63	0.377	0.207	1.432	0.041	0.47	0.298	0.132	2.62	590	0.0491	0.094	-0.869	0.529	1.739	0.751
350T150-30	0.0312	33	0.203	0.69	0.416	0.228	1.432	0.045	0.47	0.336	0.15	2.96	790	0.0658	0.103	-0.867	0.528	1.739	0.751
350T150-33	0.0346	33	0.225	0.76	0.461	0.253	1.432	0.049	0.469	0.382	0.171	3.39	1024	0.0897	0.114	-0.866	0.527	1.738	0.752
350T150-43	0.0451	33	0.293	1	0.601	0.329	1.433	0.064	0.467	0.531	0.243	4.8	1739	0.1985	0.148	-0.861	0.525	1.736	0.754
350T150-54	0.0566	33	0.367	1.25	0.762	0.412	1.44	0.079	0.465	0.712	0.332	6.57	2392	0.3921	0.187	-0.855	0.521	1.738	0.758
350T150-54	0.0566	50	0.367	1.25	0.762	0.412													

TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I_x	S_x	R_x	I_y	R_y	I_x	S_x	M_A	VA_G	J X 1000	C_w	X_0	M	R_0	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
550T150-43	0.0451	33	0.383	1.3	1.688	0.596	2.1	0.072	0.432	1.516	0.468	9.25	1504	0.2596	0.414	-0.709	0.452	2.258	0.901
550T150-54	0.0566	33	0.48	1.63	2.129	0.747	2.105	0.089	0.43	2.005	0.628	12.41	2739	0.513	0.519	-0.704	0.449	2.261	0.903
550T150-54	0.0566	50	0.48	1.63	2.129	0.747	2.105	0.089	0.43	1.928	0.595	17.81	2980	0.513	0.519	-0.704	0.449	2.261	0.903
550T150-68	0.0713	33	0.605	2.06	2.7	0.939	2.113	0.111	0.427	2.661	0.85	16.8	4347	1.0251	0.655	-0.698	0.445	2.266	0.905
550T150-68	0.0713	50	0.605	2.06	2.7	0.939	2.113	0.111	0.427	2.569	0.804	24.07	5350	1.0251	0.655	-0.698	0.445	2.266	0.905
550T150-97	0.1017	33	0.862	2.93	3.905	1.334	2.128	0.153	0.421	3.905	1.334	29.52	6730	2.9726	0.937	-0.684	0.436	2.275	0.909
550T150-97	0.1017	50	0.862	2.93	3.905	1.334	2.128	0.153	0.421	3.905	1.278	38.28	10197	2.9726	0.937	-0.684	0.436	2.275	0.909
600T150-27	0.0283	33	0.255	0.87	1.301	0.424	2.26	0.047	0.427	1.012	0.214	4.23	341	0.068	0.32	-0.686	0.441	2.4	0.918
600T150-30	0.0312	33	0.281	0.96	1.434	0.467	2.26	0.051	0.427	1.159	0.253	5.01	456	0.0911	0.352	-0.685	0.44	2.4	0.918
600T150-33	0.0346	33	0.311	1.06	1.59	0.517	2.26	0.057	0.426	1.335	0.303	5.99	622	0.1242	0.39	-0.684	0.439	2.4	0.919
600T150-43	0.0451	33	0.405	1.38	2.073	0.673	2.261	0.073	0.424	1.89	0.474	9.36	1377	0.2749	0.504	-0.68	0.437	2.399	0.92
600T150-54	0.0566	33	0.509	1.73	2.612	0.843	2.266	0.091	0.422	2.473	0.689	13.62	2728	0.5432	0.632	-0.675	0.434	2.402	0.921
600T150-54	0.0566	50	0.509	1.73	2.612	0.843	2.266	0.091	0.422	2.4	0.609	18.24	2728	0.5432	0.632	-0.675	0.434	2.402	0.921
600T150-68	0.0713	33	0.641	2.18	3.31	1.059	2.273	0.113	0.419	3.262	0.963	19.03	4347	1.0855	0.797	-0.669	0.43	2.406	0.923
600T150-68	0.0713	50	0.641	2.18	3.31	1.059	2.273	0.113	0.419	3.162	0.891	26.68	5350	1.0855	0.797	-0.669	0.43	2.406	0.923
600T150-97	0.1017	33	0.913	3.11	4.78	1.504	2.288	0.156	0.414	4.779	1.504	29.71	7359	3.1479	1.138	-0.656	0.421	2.416	0.926
600T150-97	0.1017	50	0.913	3.11	4.78	1.504	2.288	0.156	0.414	4.779	1.444	43.24	10885	3.1479	1.138	-0.656	0.421	2.416	0.926
800T150-33	0.0346	33	0.38	1.29	3.181	0.781	2.892	0.06	0.397	2.57	0.414	8.18	465	0.1518	0.751	-0.588	0.388	2.977	0.961
800T150-43	0.0451	33	0.496	1.69	4.145	1.016	2.892	0.077	0.395	3.69	0.655	12.95	1030	0.3361	0.972	-0.584	0.386	2.977	0.961
800T150-54	0.0566	33	0.622	2.12	5.216	1.272	2.896	0.096	0.393	4.977	0.969	19.15	2039	0.6641	1.215	-0.58	0.383	2.98	0.962
800T150-54	0.0566	50	0.622	2.12	5.216	1.272	2.896	0.096	0.393	4.693	0.844	25.27	2039	0.6641	1.215	-0.58	0.383	2.98	0.962
800T150-68	0.0713	33	0.783	2.66	6.596	1.599	2.902	0.119	0.39	6.527	1.412	27.91	4087	1.3272	1.526	-0.575	0.379	2.984	0.963
800T150-68	0.0713	50	0.783	2.66	6.596	1.599	2.902	0.119	0.39	6.361	1.255	37.58	4087	1.3272	1.526	-0.575	0.379	2.984	0.963
800T150-97	0.1017	33	1.116	3.8	9.483	2.27	2.914	0.165	0.385	9.48	2.269	44.83	8843	3.8491	2.162	-0.564	0.372	2.993	0.965
800T150-97	0.1017	50	1.116	3.8	9.483	2.27	2.914	0.165	0.385	9.48	2.192	65.62	10885	3.8491	2.162	-0.564	0.372	2.993	0.965
1000T150-43	0.0451	33	0.586	1.99	7.21	1.419	3.508	0.08	0.37	6.197	0.837	16.54	822	0.3972	1.612	-0.513	0.345	3.565	0.979
1000T150-54	0.0566	33	0.735	2.5	9.065	1.778	3.512	0.1	0.368	8.433	1.249	24.69	1628	0.785	2.013	-0.509	0.342	3.567	0.98
1000T150-54	0.0566	50	0.735	2.5	9.065	1.778	3.512	0.1	0.368	7.881	1.079	32.3	1628	0.785	2.013	-0.509	0.342	3.567	0.98
1000T150-68	0.0713	33	0.926	3.15	11.45	2.234	3.517	0.124	0.366	11.34	1.846	36.48	3261	1.5688	2.522	-0.505	0.339	3.572	0.98
1000T150-68	0.0713	50	0.926	3.15	11.45	2.234	3.517	0.124	0.366	10.78	1.621	48.53	3261	1.5688	2.522	-0.505	0.339	3.572	0.98
1000T150-97	0.1017	33	1.32	4.49	16.42	3.171	3.527	0.172	0.361	16.41	3.165	62.54	8843	4.5504	3.557	-0.495	0.332	3.58	0.981
1000T150-97	0.1017	50	1.32	4.49	16.42	3.171	3.527	0.172	0.361	16.41	2.903	86.9	9507	4.5504	3.557	-0.495	0.332	3.58	0.981
1200T150-54	0.0566	33	0.848	2.89	14.38	2.358	4.118	0.103	0.348	12.96	1.53	30.23	1354	0.9059	3.033	-0.454	0.31	4.157	0.988
1200T150-54	0.0566	50	0.848	2.89	14.38	2.358	4.118	0.103	0.348	12.02	1.313	39.32	1354	0.9059	3.033	-0.454	0.31	4.157	0.988
1200T150-68	0.0713	33	1.068	3.63	18.16	2.964	4.122	0.127	0.345	17.57	2.281	45.08	2713	1.8105	3.795	-0.45	0.307	4.161	0.988
1200T150-68	0.0713	50	1.068	3.63	18.16	2.964	4.122	0.127	0.345	16.57	1.987	59.48	2713	1.8105	3.795	-0.45	0.307	4.161	0.988
1200T150-97	0.1017	33	1.523	5.18	26	4.208	4.131	0.176	0.34	25.99	3.996	78.97	7902	5.2516	5.335	-0.441	0.301	4.169	0.989
1200T150-97	0.1017	50	1.523	5.18	26	4.208	4.131	0.176	0.34	25.72	3.616	108.3	7902	5.2516	5.335	-0.441	0.301	4.169	0.989
1400T150-54	0.0566	33	0.962	3.27	21.4	3.015	4.718	0.105	0.33	18.63	1.81	35.76	1160	1.0267	4.28	-0.41	0.283	4.747	0.993
1400T150-54	0.0566	50	0.962	3.27	21.4	3.015	4.718	0.105	0.33	17.16	1.547	46.33	1160	1.0267	4.28	-0.41	0.283	4.747	0.993
1400T150-68	0.0713	33	1.211	4.12	27	3.79	4.722	0.13	0.328	25.42	2.717	53.69	2322	2.0521	5.349	-0.407	0.28	4.751	0.993
1400T150-68	0.0713	50	1.211	4.12	27	3.79	4.722	0.13	0.328	23.81	2.352	70.42	2322	2.0521	5.349	-0.407	0.28	4.751	0.993
1400T150-97	0.1017	33	1.727	5.87	38.63	5.381	4.73	0.18	0.323	38.34	4.834	95.52	6761	5.9529	7.503	-0.399	0.275	4.757	0.993
1400T150-97	0.1017	50	1.727	5.87	38.63	5.381	4.73	0.18	0.323	37.29	4.332	129.7	6761	5.9529	7.503	-0.399	0.275	4.757	0.993
1400T150-118	0.1242	33	2.108	7.17	47.27	6.549	4.735	0.215	0.319	47.25	6.291	124.3	12344	10.839	9.048	-0.393	0.27	4.762	0.993
1400T150-118	0.1242	50	2.108	7.17	47.27	6.549	4.735	0.215	0.319	46.91	5.887	176.3	12344	10.839	9.048	-0.393	0.27	4.762	0.993
1600T150-54	0.0566	33	1.075	3.66	30.34	3.747	5.314	0.106	0.314	25.45	2.09	41.29	1014	1.1476	5.757	-0.374	0.26	5.336	0.995
1600T150-54	0.0566	50	1.075	3.66	30.34	3.747	5.314	0.106	0.314	23.31	1.782	53.34	1014	1.1476	5.757	-0.374	0.26	5.336	0.995
1600T150-68	0.0713	33	1.354	4.6	38.27	4.71	5.317	0.132	0.312	34.95	3.152	62.28	2030	2.2938	7.188	-0.371	0.258	5.339	0.995
1600T150-68	0.0713	50	1.354	4.6	38.27	4.71	5.317	0.132	0.312	32.54	2.717	81.35	2030	2.2938	7.188	-0.371	0.258	5.339	0.995
1600T150-97	0.1017	33	1.93	6.57	54.71	6.69	5.324	0.183	0.308	53.18	5.674	112.1	5908	6.6541	10.07	-0.363	0.253	5.345	0.995
1600T150-97	0.1017	50	1.93	6.57	54.71	6.69	5.324	0.183	0.308	51.39	5.047	151.1	5908	6.6541	10.07	-0.363	0.253	5.345	0.995
1600T150-118	0.1242	33	2.356	8.02	66.92	8.144	5.329	0.218	0.304	66.89	7.46	147.4	10783	12.117	12.12	-0.358	0.249	5.35	0.996
1600T150-118	0.1242	50	2.356	8.02	66.92	8.144	5.329	0.218	0.304	65.03	6.911	206.9	10783	12.117	12.12	-0.358	0.249	5.35	0.996

DEEP LEG TRACK SECTION PROPERTIES

DEEP LEG TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	VA _G	J X 1000	C _w	X ₀	M	R ₀	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
162T200-18	0.0188	33	0.105	0.342	0.0548	0.0674	0.7221	0.046	0.662	0.0391	0.0356	0.7032	302	0.012	0.0215	-1.5863	0.8771	0.9796	-1.6222
162T200-18	0.0188	50	0.105	0.342	0.0548	0.0674	0.7221	0.046	0.662	0.0371	0.0322	0.9632	364	0.012	0.0215	-1.5863	0.8771	0.9796	-1.6222
162T200-30	0.0312	33	0.1736	0.56	0.0892	0.1098	0.7169	0.0756	0.6599	0.0636	0.058	1.1452	627	0.056	0.0347	-1.5825	0.8746	0.9743	-1.6382
162T200-30	0.0312	50	0.1736	0.56	0.0892	0.1098	0.7169	0.0756	0.6599	0.0604	0.0524	1.5686	950	0.056	0.0347	-1.5825	0.8746	0.9743	-1.6382
162T200-33	0.0346	33	0.1922	0.622	0.0984	0.1211	0.7154	0.0836	0.6593	0.0843	0.0808	1.596	696	0.076	0.0382	-1.5815	0.874	0.9729	-1.6424
162T200-33	0.0346	50	0.1922	0.622	0.0984	0.1211	0.7154	0.0836	0.6593	0.0809	0.0747	2.2369	1054	0.076	0.0382	-1.5815	0.874	0.9729	-1.6424
162T200-43	0.0451	33	0.2496	0.806	0.1262	0.1553	0.711	0.1079	0.6576	0.1082	0.1036	2.0469	907	0.168	0.0485	-1.5781	0.8717	0.9685	-1.655
162T200-43	0.0451	50	0.2496	0.806	0.1262	0.1553	0.711	0.1079	0.6576	0.1038	0.0958	2.8687	1374	0.168	0.0485	-1.5781	0.8717	0.9685	-1.655
162T200-54	0.0566	33	0.312	1.009	0.1556	0.1915	0.7062	0.1341	0.6557	0.1333	0.1442	2.8493	1138	0.331	0.0593	-1.5743	0.8691	0.9637	-1.6686
162T200-54	0.0566	50	0.312	1.009	0.1556	0.1915	0.7062	0.1341	0.6557	0.128	0.1334	3.9934	1724	0.331	0.0593	-1.5743	0.8691	0.9637	-1.6686
162T200-68	0.0713	33	0.3909	1.263	0.1916	0.2358	0.7001	0.1668	0.6533	0.1642	0.1776	3.5087	1434	0.657	0.0721	-1.5692	0.8657	0.9576	-1.6853
162T200-68	0.0713	50	0.3909	1.263	0.1916	0.2358	0.7001	0.1668	0.6533	0.1576	0.1642	4.9175	2172	0.657	0.0721	-1.5692	0.8657	0.9576	-1.6853
162T200-97	0.1017	33	0.5465	1.766	0.2577	0.3171	0.6866	0.2292	0.6476	0.2208	0.2388	4.7185	2045	1.901	0.098	-1.563	0.0509	0.9451	-1.735
162T200-97	0.1017	50	0.5465	1.766	0.2577	0.3171	0.6866	0.2292	0.6476	0.212	0.2209	6.6131	3098	1.901	0.098	-1.563	0.0509	0.9451	-1.735
162T200-118	0.1242	33	0.6678	2.159	0.3074	0.3783	0.6785	0.2777	0.6449	0.2634	0.2849	5.6293	2497	3.384	0.1105	-1.5492	0.8514	0.9361	-1.7389
162T200-118	0.1242	50	0.6678	2.159	0.3074	0.3783	0.6785	0.2777	0.6449	0.2529	0.2635	7.8895	3784	3.384	0.1105	-1.5492	0.8514	0.9361	-1.7389
162T250-18	0.0188	33	0.1238	0.403	0.0669	0.0881	0.735	0.0838	0.8227	0.0477	0.0465	0.9196	302	0.015	0.0402	-2.0659	1.2089	1.1032	-2.5068
162T250-18	0.0188	50	0.1238	0.403	0.0669	0.0881	0.735	0.0838	0.8227	0.0453	0.0421	1.2595	364	0.015	0.0402	-2.0659	1.2089	1.1032	-2.5068
162T250-30	0.0312	33	0.2048	0.661	0.109	0.1442	0.7296	0.1379	0.8205	0.0778	0.0761	1.5044	627	0.066	0.0649	-2.0622	1.1217	1.098	-2.5274
162T250-30	0.0312	50	0.2048	0.661	0.109	0.1442	0.7296	0.1379	0.8205	0.0738	0.0688	2.0605	950	0.066	0.0649	-2.0622	1.1217	1.098	-2.5274
162T250-33	0.0346	33	0.2268	0.734	0.1203	0.1593	0.7282	0.1525	0.8199	0.1031	0.1062	2.0992	696	0.09	0.0714	-2.0612	1.121	1.0966	-2.533
162T250-33	0.0346	50	0.2268	0.734	0.1203	0.1593	0.7282	0.1525	0.8199	0.0989	0.0983	2.9421	1054	0.09	0.0714	-2.0612	1.121	1.0966	-2.533
162T250-43	0.0451	33	0.2947	0.952	0.1543	0.2051	0.7237	0.1973	0.8181	0.1323	0.1368	2.7034	907	0.199	0.091	-2.0579	1.1188	1.0922	-2.5501
162T250-43	0.0451	50	0.2947	0.952	0.1543	0.2051	0.7237	0.1973	0.8181	0.127	0.1265	3.7888	1374	0.199	0.091	-2.0579	1.1188	1.0922	-2.5501
162T250-54	0.0566	33	0.3686	1.192	0.1904	0.254	0.7188	0.2455	0.8161	0.1632	0.1913	3.7798	1138	0.391	0.1114	-2.0541	1.116	1.0875	-2.5677
162T250-54	0.0566	50	0.3686	1.192	0.1904	0.254	0.7188	0.2455	0.8161	0.1									

DEEP LEG TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _x	VA _G	J X 1000	C _w	X ₀	M	R ₀	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
200T250-68	0.0713	33	0.4889	1.58	0.3698	0.3698	0.8696	0.3281	0.8192	0.3169	0.2784	5.5019	1764	0.823	0.2195	-1.9737	1.0883	1.1947	-1.7293
200T250-68	0.0713	50	0.4889	1.58	0.3698	0.3698	0.8696	0.3281	0.8192	0.3042	0.2575	7.711	2674	0.823	0.2195	-1.9737	1.0883	1.1947	-1.7293
200T250-97	0.1017	33	0.6912	2.234	0.5077	0.5077	0.857	0.4583	0.8143	0.4351	0.3823	7.5542	2517	2.361	0.2954	-1.9631	1.081	1.1822	-1.7574
200T250-97	0.1017	50	0.6912	2.234	0.5077	0.5077	0.857	0.4583	0.8143	0.4177	0.3536	10.5873	3814	2.361	0.2954	-1.9631	1.081	1.1822	-1.7574
200T250-118	0.1242	33	0.8385	2.711	0.6027	0.6027	0.8478	0.5511	0.8107	0.5165	0.4538	8.9678	3074	4.262	0.3453	-1.9547	1.075	1.173	-1.7769
200T250-118	0.1242	50	0.8385	2.711	0.6027	0.6027	0.8478	0.5511	0.8107	0.4958	0.4198	12.5685	4657	4.262	0.3453	-1.9547	1.075	1.173	-1.7769
200T300-18	0.0188	33	0.1497	0.488	0.1225	0.1292	0.9047	0.1464	0.9888	0.0918	0.0719	1.4198	296	0.018	0.1064	-2.4697	1.3465	1.3403	-2.3953
200T300-18	0.0188	50	0.1497	0.488	0.1225	0.1292	0.9047	0.1464	0.9888	0.0872	0.066	1.9749	296	0.018	0.1064	-2.4697	1.3465	1.3403	-2.3953
200T300-30	0.0312	33	0.2477	0.799	0.2003	0.2119	0.8994	0.2411	0.9867	0.15	0.1178	2.3284	772	0.08	0.1728	-2.4661	1.344	1.3351	-2.4119
200T300-30	0.0312	50	0.2477	0.799	0.2003	0.2119	0.8994	0.2411	0.9867	0.1425	0.1082	3.2385	1024	0.08	0.1728	-2.4661	1.344	1.3351	-2.4119
200T300-33	0.0346	33	0.2744	0.888	0.2213	0.2343	0.8979	0.2668	0.9861	0.1896	0.1562	3.0875	856	0.109	0.1905	-2.465	1.3433	1.3337	-2.416
200T300-33	0.0346	50	0.2744	0.888	0.2213	0.2343	0.8979	0.2668	0.9861	0.182	0.1445	4.3271	1260	0.109	0.1905	-2.465	1.3433	1.3337	-2.416
200T300-43	0.0451	33	0.3567	1.152	0.2848	0.3023	0.8934	0.3456	0.9842	0.244	0.2016	3.9841	1116	0.241	0.2437	-2.4618	1.3411	1.3293	-2.4297
200T300-43	0.0451	50	0.3567	1.152	0.2848	0.3023	0.8934	0.3456	0.9842	0.2343	0.1865	5.5837	1691	0.241	0.2437	-2.4618	1.3411	1.3293	-2.4297
200T300-54	0.0566	33	0.4464	1.444	0.3524	0.3752	0.8885	0.4307	0.9823	0.302	0.2825	5.5828	1401	0.475	0.2997	-2.4582	1.3386	1.3245	-2.4445
200T300-54	0.0566	50	0.4464	1.444	0.3524	0.3752	0.8885	0.4307	0.9823	0.2899	0.2613	7.8244	2122	0.475	0.2997	-2.4582	1.3386	1.3245	-2.4445
200T300-68	0.0713	33	0.5578	1.802	0.4337	0.4337	0.8818	0.5346	0.979	0.3717	0.3266	6.4535	1764	0.949	0.3724	-2.4555	1.3323	1.3184	-2.4688
200T300-68	0.0713	50	0.5578	1.802	0.4337	0.4337	0.8818	0.5346	0.979	0.3568	0.3021	9.0446	2674	0.949	0.3724	-2.4555	1.3323	1.3184	-2.4688
200T300-97	0.1017	33	0.7929	2.563	0.5994	0.6458	0.8694	0.7531	0.9746	0.5137	0.4863	9.6099	2517	2.711	0.4967	-2.4428	1.3276	1.306	-2.4986
200T300-97	0.1017	50	0.7929	2.563	0.5994	0.6458	0.8694	0.7531	0.9746	0.4931	0.4498	13.4684	3814	2.711	0.4967	-2.4428	1.3276	1.306	-2.4986
200T300-118	0.1242	33	0.9627	3.112	0.7121	0.7721	0.86	0.9073	0.9708	0.6103	0.5814	11.4893	3074	4.9	0.5824	-2.4344	1.3214	1.297	-2.5229
200T300-118	0.1242	50	0.9627	3.112	0.7121	0.7721	0.86	0.9073	0.9708	0.5859	0.5378	16.1024	4657	4.9	0.5824	-2.4344	1.3214	1.297	-2.5229
250T200-18	0.0188	33	0.1215	0.396	0.1391	0.1113	1.0701	0.0532	0.6616	0.1042	0.0619	1.2229	236	0.014	0.0574	-1.4372	0.8241	1.2582	-0.3048
250T200-18	0.0188	50	0.1215	0.396	0.1391	0.1113	1.0701	0.0532	0.6616	0.099	0.0569	1.7046	236	0.014	0.0574	-1.4372	0.8241	1.2582	-0.3048
250T200-30	0.0312	33	0.2009	0.648	0.2278	0.1823	1.065	0.0874	0.6597	0.1706	0.1013	2.0025	832	0.065	0.0932	-1.4333	0.8216	1.2528	-0.3089
250T200-30	0.0312	50	0.2009	0.648	0.2278														

DEEP LEG TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	VA _G	J X 1000	C _w	X ₀	M	R ₀	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
300T200-33	0.0346	33	0.2398	0.776	0.3769	0.2512	1.2536	0.1027	0.6543	0.2732	0.1327	2.6213	1023	0.095	0.1569	-1.3605	0.7933	1.4141	0.0744
300T200-33	0.0346	50	0.2398	0.776	0.3769	0.2512	1.2536	0.1027	0.6543	0.2566	0.1215	3.6381	1229	0.095	0.1569	-1.3605	0.7933	1.4141	0.0744
300T200-43	0.0451	33	0.3116	1.006	0.4864	0.3243	1.2493	0.1327	0.6526	0.3823	0.192	3.7934	1674	0.21	0.201	-1.3571	0.7913	1.4095	0.073
300T200-43	0.0451	50	0.3116	1.006	0.4864	0.3243	1.2493	0.1327	0.6526	0.359	0.1758	5.2648	2141	0.21	0.201	-1.3571	0.7913	1.4095	0.073
300T200-54	0.0566	33	0.3898	1.261	0.6039	0.4026	1.2447	0.1651	0.6508	0.5127	0.2653	5.2426	2101	0.414	0.2475	-1.3534	0.789	1.4046	0.0716
300T200-54	0.0566	50	0.3898	1.261	0.6039	0.4026	1.2447	0.1651	0.6508	0.4814	0.243	7.2762	3184	0.414	0.2475	-1.3534	0.789	1.4046	0.0716
300T200-68	0.0713	33	0.4889	1.58	0.7503	0.5002	1.2388	0.2057	0.6486	0.685	0.3706	7.3242	2647	0.823	0.3042	-1.3485	0.786	1.3983	0.07
300T200-68	0.0713	50	0.4889	1.58	0.7503	0.5002	1.2388	0.2057	0.6486	0.646	0.3384	10.1318	4010	0.823	0.3042	-1.3485	0.786	1.3983	0.07
300T200-97	0.1017	33	0.6863	2.218	1.0294	0.6863	1.2247	0.285	0.6443	0.9398	0.5085	10.0486	3775	2.383	0.4206	-1.34	0.7773	1.3854	0.064
300T200-97	0.1017	50	0.6863	2.218	1.0294	0.6863	1.2247	0.285	0.6443	0.8863	0.4643	13.9006	5720	2.383	0.4206	-1.34	0.7773	1.3854	0.0645
300T200-118	0.1242	33	0.8385	2.711	1.2434	0.829	1.2177	0.3441	0.6406	1.1352	0.6143	12.1379	4611	4.262	0.4849	-1.3303	0.7746	1.3759	0.0652
300T200-118	0.1242	50	0.8385	2.711	1.2434	0.829	1.2177	0.3441	0.6406	1.0705	0.5608	16.7908	6986	4.262	0.4849	-1.3303	0.7746	1.3759	0.0652
300T250-18	0.0188	33	0.1497	0.488	0.2496	0.1664	1.2913	0.1028	0.8286	0.1869	0.0925	1.8281	197	0.018	0.1607	-1.8172	1.0382	1.5343	-0.4028
300T250-18	0.0188	50	0.1497	0.488	0.2496	0.1664	1.2913	0.1028	0.8286	0.1776	0.0851	2.5483	197	0.018	0.1607	-1.8172	1.0382	1.5343	-0.4028
300T250-30	0.0312	33	0.2477	0.799	0.4097	0.2731	1.2861	0.1692	0.8266	0.3068	0.1518	3.0006	832	0.08	0.2618	-1.8133	1.0357	1.5289	-0.4066
300T250-30	0.0312	50	0.2477	0.799	0.4097	0.2731	1.2861	0.1692	0.8266	0.2915	0.1397	4.1826	901	0.08	0.2618	-1.8133	1.0357	1.5289	-0.4066
300T250-33	0.0346	33	0.2744	0.888	0.4529	0.302	1.2847	0.1873	0.8261	0.3284	0.1594	3.1504	1023	0.109	0.2889	-1.8122	1.035	1.5274	-0.4077
300T250-33	0.0346	50	0.2744	0.888	0.4529	0.302	1.2847	0.1873	0.8261	0.3083	0.146	4.3724	1229	0.109	0.2889	-1.8122	1.035	1.5274	-0.4077
300T250-43	0.0451	33	0.3557	1.149	0.5826	0.3884	1.2798	0.2418	0.8245	0.4579	0.2299	4.5432	1674	0.233	0.3713	-1.8153	1.0371	1.5229	-0.4209
300T250-43	0.0451	50	0.3557	1.149	0.5826	0.3884	1.2798	0.2418	0.8245	0.43	0.2106	6.3054	2141	0.233	0.3713	-1.8153	1.0371	1.5229	-0.4209
300T250-54	0.0566	33	0.4464	1.444	0.7265	0.4843	1.2757	0.302	0.8226	0.6168	0.3192	6.307	2101	0.475	0.4573	-1.8052	1.0307	1.5179	-0.4144
300T250-54	0.0566	50	0.4464	1.444	0.7265	0.4843	1.2757	0.302	0.8226	0.5792	0.2924	8.7534	3184	0.475	0.4573	-1.8052	1.0307	1.5179	-0.4144
300T250-68	0.0713	33	0.5602	1.81	0.9032	0.6021	1.2697	0.3769	0.8203	0.8246	0.4462	8.8169	2647	0.944	0.5636	-1.8004	1.0277	1.5116	-0.4186
300T250-68	0.0713	50	0.5602	1.81	0.9032	0.6021	1.2697	0.3769	0.8203	0.7776	0.4074	12.1968	4010	0.944	0.5636	-1.8004	1.0277	1.5116	-0.4186
300T250-97	0.1017	33	0.7929	2.563	1.2537	0.8358	1.2574	0.5274	0.8155	1.1446	0.6193	12.238	3775	2.711	0.7679	-1.7902	1.0212	1.4987	-0.4268
300T250-97	0.1017	50	0.7929	2.563	1.2537														

DEEP LEG TRACK SECTION PROPERTIES																			
MEMBER	DESIGN THICKNESS	KSI	AREA	WEIGHT	GROSS PROPERTIES					EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
					I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _x	VA _x	J X 1000	C _w	X ₀	M	R ₀	β
					(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	
350T250-118	0.1242	33	1.0249	3.313	2.1259	1.2148	1.4402	0.6693	0.8081	2.0196	1.0921	21.58	5397	5.22	1.3088	-1.7083	0.9885	1.6515	-0.07
350T250-118	0.1242	50	1.0249	3.313	2.1259	1.2148	1.4402	0.6693	0.8081	1.9388	1.0102	30.2447	8150	5.22	1.3088	-1.7083	0.9885	1.6515	-0.07
350T300-18	0.0188	33	0.1779	0.58	0.4068	0.2324	1.5122	0.1763	0.9955	0.3218	0.119	2.3518	169	0.021	0.3767	-2.1975	1.2523	1.8105	-0.4732
350T300-18	0.0188	50	0.1779	0.58	0.4068	0.2324	1.5122	0.1763	0.9955	0.3057	0.1095	3.2782	169	0.021	0.3767	-2.1975	1.2523	1.8105	-0.4732
350T300-30	0.0312	33	0.2945	0.951	0.6688	0.3821	1.507	0.2907	0.9935	0.529	0.1957	3.8663	772	0.095	0.6154	-2.1936	1.2499	1.8051	-0.4768
350T300-30	0.0312	50	0.2945	0.951	0.6688	0.3821	1.507	0.2907	0.9935	0.5025	0.18	5.3894	772	0.095	0.6154	-2.1936	1.2499	1.8051	-0.4768
350T300-33	0.0346	33	0.3263	1.056	0.7397	0.4227	1.5056	0.3217	0.993	0.5511	0.2426	4.7945	1023	0.13	0.6796	-2.1926	1.2493	1.8036	-0.4779
350T300-33	0.0346	50	0.3263	1.056	0.7397	0.4227	1.5056	0.3217	0.993	0.5208	0.2247	6.7268	1053	0.13	0.6796	-2.1926	1.2493	1.8036	-0.4779
350T300-43	0.0451	33	0.4244	1.37	0.9565	0.5466	1.5013	0.417	0.9913	0.7671	0.3433	6.783	1739	0.287	0.8742	-2.1893	1.2473	1.7991	-0.4808
350T300-43	0.0451	50	0.4244	1.37	0.9565	0.5466	1.5013	0.417	0.9913	0.7249	0.3179	9.5167	2141	0.287	0.8742	-2.1893	1.2473	1.7991	-0.4808
350T300-54	0.0566	33	0.5313	1.718	1.19	0.6799	1.4966	0.5201	0.9894	1.0198	0.4705	9.2973	2451	0.565	1.0813	-2.1856	1.2449	1.7941	-0.484
350T300-54	0.0566	50	0.5313	1.718	1.19	0.6799	1.4966	0.5201	0.9894	0.9637	0.4357	13.0444	3371	0.565	1.0813	-2.1856	1.2449	1.7941	-0.484
350T300-68	0.0713	33	0.6647	2.148	1.4749	0.8428	1.4896	0.6478	0.9872	1.351	0.6456	12.7574	3088	1.131	1.3509	-2.1817	1.2392	1.7878	-0.4892
350T300-68	0.0713	50	0.6647	2.148	1.4749	0.8428	1.4896	0.6478	0.9872	1.2794	0.5959	17.841	4679	1.131	1.3509	-2.1817	1.2392	1.7878	-0.4892
350T300-97	0.1017	33	0.9455	3.056	2.0659	1.1805	1.4782	0.9123	0.9823	1.9626	1.0613	20.9712	4405	3.237	1.8348	-2.1708	1.2356	1.7748	-0.496
350T300-97	0.1017	50	0.9455	3.056	2.0659	1.1805	1.4782	0.9123	0.9823	1.8841	0.9817	29.3914	6670	3.237	1.8348	-2.1708	1.2356	1.7748	-0.496
350T300-118	0.1242	33	1.1491	3.715	2.4799	1.4171	1.4691	1.1009	0.9788	2.3559	1.2739	25.1736	5397	5.858	2.1772	-2.1631	1.2306	1.7653	-0.5015
350T300-118	0.1242	50	1.1491	3.715	2.4799	1.4171	1.4691	1.1009	0.9788	2.2616	1.1784	35.2812	8150	5.858	2.1772	-2.1631	1.2306	1.7653	-0.5015
362T200-18	0.0188	33	0.1426	0.465	0.3168	0.1748	1.4903	0.06	0.6483	0.2506	0.0879	1.7374	163	0.017	0.1358	-1.2867	0.7645	1.6252	0.3732
362T200-18	0.0188	50	0.1426	0.465	0.3168	0.1748	1.4903	0.06	0.6483	0.2381	0.0818	2.4482	163	0.017	0.1358	-1.2867	0.7645	1.6252	0.3732
362T200-30	0.0312	33	0.236	0.762	0.5205	0.2872	1.4853	0.0986	0.6464	0.4117	0.1445	2.8545	746	0.076	0.2212	-1.2827	0.762	1.6198	0.3729
362T200-30	0.0312	50	0.236	0.762	0.5205	0.2872	1.4853	0.0986	0.6464	0.3912	0.1343	4.0223	745	0.076	0.2212	-1.2827	0.762	1.6198	0.3729
362T200-33	0.0346	33	0.2614	0.846	0.5757	0.3176	1.4839	0.109	0.6458	0.4312	0.1833	3.6213	1017	0.104	0.2441	-1.2816	0.7614	1.6184	0.3729
362T200-33	0.0346	50	0.2614	0.846	0.5757	0.3176	1.4839	0.109	0.6458	0.4079	0.1699	5.0863	1017	0.104	0.2441	-1.2816	0.7614	1.6184	0.3729
362T200-43	0.0451	33	0.3398	1.097	0.744	0.4105	1.4797	0.141	0.6442	0.5982	0.2594	5.1264	1739	0.23	0.3131	-1.2783	0.7595	1.6138	0.3726
362T200-43	0.0451	50	0.3398	1.097	0.744</														

COMMITTED TO
DELIVERING EXCELLENCE



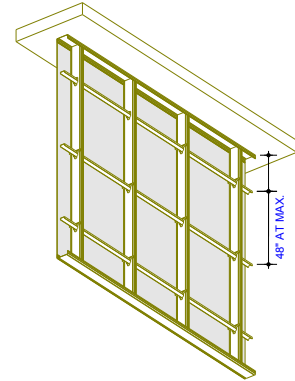
LIMITING WALL HEIGHTS



INTERIOR NON-STRUCTURAL NON-COMPOSITE LIMITING WALL HEIGHTS

NOTES

1. Lateral loads of 5 psf, 7.5 psf, and 10 psf loads have NOT been reduced for strength or deflection checks. Full lateral load is applied.
2. Calculated properties are based upon AISI S100-12, "North American Specification for the Design of Cold-Formed Steel Structural Members."
3. Limiting heights are based upon continuous support of each flange over the full length of the stud.
4. Limiting heights are based upon steel properties only (non-composite).
5. Web crippling checks are based upon end-one flange loading condition using 1-inch end bearing.
6. Where limiting heights are followed by "e", web stiffeners are required.



INTERIOR NON-STRUCTURAL NON-COMPOSITE LIMITING WALL HEIGHTS											
Member	Spacing	F _y , ksi	5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	12	33	9' 0"	7' 7"	6' 8"	7' 4"	6' 8"	5' 10"	6' 4"	6' 1"	5' 3"
162S125-18	16		7' 10"	6' 11"	6' 1"	6' 4"	6' 1"	5' 3"	5' 6"	5' 6"	4' 10"
162S125-18	24		6' 4"	6' 1"	5' 3"	5' 2"	5' 2"	4' 7"	4' 6"	4' 6"	4' 2"
162S125-27	12	33	11' 3"	8' 11"	7' 10"	9' 8"	7' 10"	6' 10"	8' 4"	7' 1"	6' 3"
162S125-27	16		10' 3"	8' 2"	7' 1"	8' 4"	7' 1"	6' 3"	7' 3"	6' 5"	5' 8"
162S125-27	24		8' 4"	7' 1"	6' 3"	6' 10"	6' 3"	5' 5"	5' 11"	5' 8"	4' 11"
162S125-30	12	33	11' 8"	9' 3"	8' 1"	10' 2"	8' 1"	7' 1"	8' 11"	7' 4"	6' 5"
162S125-30	16		10' 7"	8' 5"	7' 4"	8' 11"	7' 4"	6' 5"	7' 9"	6' 8"	5' 10"
162S125-30	24		8' 11"	7' 4"	6' 5"	7' 3"	6' 5"	5' 7"	6' 4"	5' 10"	5' 1"
162S125-33	12	33	12' 0"	9' 6"	8' 4"	10' 6"	8' 4"	7' 3"	9' 6"	7' 7"	6' 7"
162S125-33	16		10' 11"	8' 8"	7' 7"	9' 6"	7' 7"	6' 7"	8' 3"	6' 11"	6' 0"
162S125-33	24		9' 6"	7' 7"	6' 7"	7' 10"	6' 7"	5' 9"	6' 9"	6' 0"	5' 3"
250S125-18	12	33	11' 9"	10' 6"	9' 3"	9' 7"	9' 3"	8' 1"	8' 3"	8' 3"	7' 4"
250S125-18	16		10' 2"	9' 7"	8' 4"	8' 3"	8' 3"	7' 4"	7' 2"	7' 2"	6' 8"
250S125-18	24		8' 3"	8' 3"	7' 4"	6' 9"	6' 9"	6' 5"	5' 2"	5' 2"	5' 2"
250S125-27	12	33	15' 7"	12' 4"	10' 10"	12' 9"	10' 10"	9' 5"	11' 0"	9' 10"	8' 7"
250S125-27	16		13' 6"	11' 3"	9' 10"	11' 0"	9' 10"	8' 7"	9' 7"	8' 11"	7' 10"
250S125-27	24		11' 0"	9' 10"	8' 7"	9' 0"	8' 7"	7' 6"	7' 10"	7' 10"	6' 10"
250S125-30	12	33	16' 1"	12' 9"	11' 2"	13' 8"	11' 2"	9' 9"	11' 10"	10' 2"	8' 10"
250S125-30	16		14' 5"	11' 7"	10' 2"	11' 10"	10' 2"	8' 10"	10' 3"	9' 2"	8' 1"
250S125-30	24		11' 10"	10' 2"	8' 10"	9' 8"	8' 10"	7' 9"	8' 4"	8' 1"	7' 0"
250S125-33	12	33	16' 7"	13' 2"	11' 6"	14' 6"	11' 6"	10' 1"	12' 8"	10' 6"	9' 2"
250S125-33	16		15' 1"	12' 0"	10' 6"	12' 8"	10' 6"	9' 2"	11' 0"	9' 6"	8' 4"
250S125-33	24		12' 8"	10' 6"	9' 2"	10' 4"	9' 2"	8' 0"	9' 0"	8' 4"	7' 3"
250S125-43	12	33	18' 1"	14' 4"	12' 6"	15' 10"	12' 6"	10' 11"	14' 4"	11' 5"	9' 11"
250S125-43	16		16' 5"	13' 0"	11' 5"	14' 4"	11' 5"	9' 11"	13' 0"	10' 4"	9' 1"
250S125-43	24		14' 4"	11' 5"	9' 11"	12' 4"	9' 11"	8' 8"	10' 8"	9' 1"	7' 11"
250S125-54	12	50	19' 4"	15' 4"	13' 5"	16' 10"	13' 5"	11' 8"	15' 4"	12' 2"	10' 8"
250S125-54	16		17' 7"	13' 11"	12' 2"	15' 4"	12' 2"	10' 8"	13' 11"	11' 1"	9' 8"
250S125-54	24		15' 4"	12' 2"	10' 8"	13' 5"	10' 8"	9' 3"	12' 2"	9' 8"	8' 5"
250S125-68	12	50	20' 7"	16' 4"	14' 4"	18' 0"	14' 4"	12' 6"	16' 4"	13' 0"	11' 4"
250S125-68	16		18' 9"	14' 10"	13' 0"	16' 4"	13' 0"	11' 4"	14' 10"	11' 10"	10' 4"
250S125-68	24		16' 4"	13' 0"	11' 4"	14' 4"	11' 4"	9' 11"	13' 0"	10' 4"	9' 0"
350S125-18	12	33	13' 9"	13' 9"	12' 0"	11' 3"	11' 3"	10' 6"	9' 9"	9' 9"	9' 6"
350S125-18	16		11' 11"	11' 11"	10' 11"	9' 9"	9' 9"	9' 6"	7' 4"	7' 4"	7' 4"
350S125-18	24		9' 9"	9' 9"	9' 6"	6' 6"	6' 6"	6' 6"	4' 11"	4' 11"	4' 11"
350S125-27	12	33	18' 6"	16' 0"	14' 0"	15' 1"	14' 0"	12' 3"	13' 1"	12' 9"	11' 1"
350S125-27	16		16' 0"	14' 7"	12' 9"	13' 1"	12' 9"	11' 1"	11' 4"	11' 4"	10' 1"
350S125-27	24		13' 1"	12' 9"	11' 1"	10' 8"	10' 8"	9' 8"	9' 3"	9' 3"	8' 10"
350S125-30	12	33	19' 11"	16' 7"	14' 5"	16' 3"	14' 5"	12' 8"	14' 1"	13' 2"	11' 6"
350S125-30	16		17' 3"	15' 0"	13' 2"	14' 1"	13' 2"	11' 6"	12' 2"	11' 11"	10' 5"
350S125-30	24		14' 1"	13' 2"	11' 6"	11' 6"	11' 6"	10' 0"	9' 11"	9' 11"	9' 1"
350S125-33	12	33	21' 6"	17' 1"	14' 11"	17' 6"	14' 11"	13' 1"	15' 2"	13' 7"	11' 10"
350S125-33	16		18' 7"	15' 7"	13' 7"	15' 2"	13' 7"	11' 10"	13' 2"	12' 4"	10' 9"
350S125-33	24		15' 2"	13' 7"	11' 10"	12' 5"	11' 10"	10' 4"	10' 9"	10' 9"	9' 5"
350S125-43	12	33	23' 6"	18' 8"	16' 3"	20' 6"	16' 3"	14' 3"	18' 5"	14' 9"	12' 11"
350S125-43	16		21' 4"	16' 11"	14' 9"	18' 5"	14' 9"	12' 11"	16' 0"	13' 5"	11' 9"
350S125-43	24		18' 5"	14' 9"	12' 11"	15' 1"	12' 11"	11' 3"	13' 0"	11' 9"	10' 3"
350S125-54	12	50	25' 1"	19' 11"	17' 5"	21' 11"	17' 5"	15' 2"	19' 11"	15' 10"	13' 10"
350S125-54	16		22' 10"	18' 1"	15' 10"	19' 11"	15' 10"	13' 10"	18' 1"	14' 4"	12' 7"
350S125-54	24		19' 11"	15' 10"	13' 10"	17' 5"	13' 10"	12' 1"	15' 10"	12' 7"	11' 0"

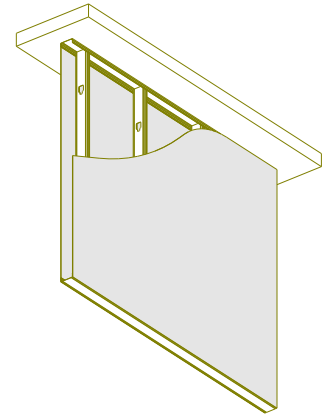
INTERIOR NON-STRUCTURAL NON-COMPOSITE LIMITING WALL HEIGHTS											
Member	Spacing	F _y , ksi	5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
350S125-68	12	50	26' 10"	21' 4"	18' 8"	23' 6"	18' 8"	16' 3"	21' 4"	16' 11"	14' 9"
350S125-68	16		24' 5"	19' 4"	16' 11"	21' 4"	16' 11"	14' 9"	19' 4"	15' 5"	13' 5"
350S125-68	24		21' 4"	16' 11"	14' 9"	18' 8"	14' 9"	12' 11"	16' 11"	13' 5"	11' 9"
362S125-18	12	33	14' 1"	14' 1"	12' 4"	11' 6"	11' 6"	10' 9"	9' 9"	9' 9"	9' 9"
362S125-18	16		12' 2"	12' 2"	11' 3"	9' 9"	9' 9"	9' 9"	7' 4"	7' 4"	7' 4"
362S125-18	24		9' 9"	9' 9"	9' 9"	6' 6"	6' 6"	6' 6"	4' 10"	4' 10"	4' 10"
362S125-27	12	33	18' 11"	16' 5"	14' 5"	15' 5"	14' 5"	12' 7"	13' 4"	13' 1"	11' 5"
362S125-27	16		16' 4"	14' 11"	13' 1"	13' 4"	13' 1"	11' 5"	11' 7"	11' 7"	10' 4"
362S125-27	24		13' 4"	13' 1"	11' 5"	10' 11"	10' 11"	10' 0"	9' 5"	9' 5"	9' 1"
362S125-30	12	33	20' 3"	17' 0"	14' 10"	16' 7"	14' 10"	13' 0"	14' 4"	13' 6"	11' 10"
362S125-30	16		17' 7"	15' 5"	13' 6"	14' 4"	13' 6"	11' 10"	12' 5"	12' 3"	10' 9"
362S125-30	24		14' 4"	13' 6"	11' 10"	11' 9"	11' 9"	10' 4"	10' 2"	10' 2"	9' 4"
362S125-33	12	33	21' 11"	17' 7"	15' 4"	17' 11"	15' 4"	13' 5"	15' 6"	13' 11"	12' 2"
362S125-33	16		19' 0"	16' 0"	13' 11"	15' 6"	13' 11"	12' 2"	13' 5"	12' 8"	11' 1"
362S125-33	24		15' 6"	13' 11"	12' 2"	12' 8"	12' 2"	10' 8"	10' 11"	10' 11"	9' 8"
362S125-43	12	33	24' 2"	19' 2"	16' 9"	21' 1"	16' 9"	14' 7"	18' 10"	15' 2"	13' 3"
362S125-43	16		21' 11"	17' 5"	15' 2"	18' 10"	15' 2"	13' 3"	16' 4"	13' 10"	12' 1"
362S125-43	24		18' 10"	15' 2"	13' 3"	15' 4"	13' 3"	11' 7"	13' 4"	12' 1"	10' 6"
362S125-54	12	50	25' 10"	20' 6"	17' 11"	22' 7"	17' 11"	15' 8"	20' 6"	16' 3"	14' 2"
362S125-54	16		23' 5"	18' 7"	16' 3"	20' 6"	16' 3"	14' 2"	18' 7"	14' 9"	12' 11"
362S125-54	24		20' 6"	16' 3"	14' 2"	17' 11"	14' 2"	12' 5"	16' 3"	12' 11"	11' 3"
362S125-68	12	50	27' 7"	21' 11"	19' 2"	24' 2"	19' 2"	16' 9"	21' 11"	17' 5"	15' 2"
362S125-68	16		25' 1"	19' 11"	17' 5"	21' 11"	17' 5"	15' 2"	19' 11"	15' 10"	13' 10"
362S125-68	24		21' 11"	17' 5"	15' 2"	19' 2"	15' 2"	13' 3"	17' 5"	13' 10"	12' 1"
400S125-18	12	33	14' 9"	14' 9"	13' 4"	12' 1"	12' 1"	11' 8"	9' 6"	9' 6"	9' 6"
400S125-18	16		12' 10"	12' 10"	12' 2"	9' 6"	9' 6"	9' 6"	7' 2"	7' 2"	7' 2"
400S125-18	24		9' 6"	9' 6"	9' 6"	6' 4"	6' 4"	6' 4"	4' 9"	4' 9"	4' 9"
400S125-27	12	33	19' 11"	17' 9"	15' 6"	16' 3"	15' 6"	13' 7"	14' 1"	14' 1"	12' 4"
400S125-27	16		17' 3"	16' 2"	14' 1"	14' 1"	14' 1"	12' 4"	12' 2"	12' 2"	11' 2"
400S125-27	24		14' 1"	14' 1"	12' 4"	11' 6"	11' 6"	10' 9"	10' 0"	10' 0"	9' 9"
400S125-30	12	33	21' 5"	18' 5"	16' 1"	17' 6"	16' 1"	14' 0"	15' 2"	14' 7"	12' 9"
400S125-30	16		18' 7"	16' 8"	14' 7"	15' 2"	14' 7"	12' 9"	13' 1"	13' 1"	11' 7"
400S125-30	24		15' 2"	14' 7"	12' 9"	12' 4"	12' 4"	11' 2"	10' 9"	10' 9"	10' 1"
400S125-33	12	33	23' 2"	19' 0"	16' 7"	18' 11"	16' 7"	14' 6"	16' 4"	15' 1"	13' 2"
400S125-33	16		20' 0"	17' 3"	15' 1"	16' 4"	15' 1"	13' 2"	14' 2"	13' 8"	12' 0"
400S125-33	24		16' 4"	15' 1"	13' 2"	13' 4"	13' 2"	11' 6"	11' 7"	11' 7"	10' 5"
400S125-43	12	33	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 10"	19' 11"	16' 5"	14' 4"
400S125-43	16		23' 8"	18' 10"	16' 5"	19' 11"	16' 5"	14' 4"	17' 3"	14' 11"	13' 0"
400S125-43	24		19' 11"	16' 5"	14' 4"	16' 3"	14' 4"	12' 6"	14' 1"	13' 0"	11' 5"
400S125-54	12	50	27' 11"	22' 2"	19' 4"	24' 4"	19' 4"	16' 11"	22' 2"	17' 7"	15' 4"
400S125-54	16		25' 4"	20' 1"	17' 7"	22' 2"	17' 7"	15' 4"	20' 1"	16' 0"	13' 11"
400S125-54	24		22' 2"	17' 7"	15' 4"	19' 4"	15' 4"	13' 5"	17' 7"	13' 11"	12' 2"
400S125-68	12	50	29' 11"	23' 9"	20' 9"	26' 1"	20' 9"	18' 1"	23' 9"	18' 10"	16' 5"
400S125-68	16		27' 2"	21' 7"	18' 10"	23' 9"	18' 10"	16' 5"	21' 7"	17' 1"	14' 11"
400S125-68	24		23' 9"	18' 10"	16' 5"	20' 9"	16' 5"	14' 4"	18' 10"	14' 11"	13' 1"
550S125-18	12	33	17' 6"	17' 6"	16' 9"	11' 10"	11' 10"	11' 10"	8' 10"	8' 10"	8' 10"
550S125-18	16		13' 3"	13' 3"	13' 3"	8' 10"	8' 10"	8' 10"	6' 8"	6' 8"	6' 8"
550S125-18	24		8' 10"	8' 10"	8' 10"	5' 11"	5' 11"	5' 11"	4' 5"	4' 5"	4' 5"
550S125-27	12	33	23' 10"	22' 9"	19' 10"	19' 6"	19' 6"	17' 4"	16' 11"	16' 11"	15' 9"
550S125-27	16		20' 8"	20' 8"	18' 1"	16' 11"	16' 11"	15' 9"	14' 7"	14' 7"	14' 4"
550S125-27	24		16' 11"	16' 11"	15' 9"	13' 9"	13' 9"	10' 4"	10' 4"	10' 4"	10' 4"
550S125-30	12	33	25' 8"	23' 7"	20' 7"	21' 0"	20' 7"	18' 0"	18' 2"	18' 2"	16' 4"
550S125-30	16		22' 3"	21' 5"	18' 8"	18' 2"	18' 2"	16' 4"	15' 9"	15' 9"	14' 10"
550S125-30	24		18' 2"	18' 2"	16' 4"	14' 10"	14' 10"	14' 3"	12' 7"	12' 7"	12' 7"
550S125-33	12	33	27' 9"	24' 5"	21' 4"	22' 8"	21' 4"	18' 8"	19' 8"	19' 5"	16' 11"
550S125-33	16		24' 1"	22' 2"	19' 5"	19' 8"	19' 5"	16' 11"	17' 0"	17' 0"	15' 5"
550S125-33	24		19' 8"	19' 5"	16' 11"	16' 1"	16' 1"	14' 10"	13' 11"	13' 11"	13' 5"
550S125-43	12	33	33' 8"	26' 9"	23' 4"	27' 8"	23' 4"	20' 5"	24' 0"	21' 3"	18' 6"
550S125-43	16		29' 4"	24' 4"	21' 3"	24' 0"	21' 3"	18' 6"	20' 9"	19' 3"	16' 10"
550S125-43	24		24' 0"	21' 3"	18' 6"	19' 7"	18' 6"	16' 2"	16' 11"	16' 10"	14' 9"
550S125-54	12	50	36' 1"	28' 8"	25' 0"	31' 6"	25' 0"	21' 10"	28' 8"	22' 9"	19' 10"
550S125-54	16		32' 9"	26' 0"	22' 9"	28' 8"	22' 9"	19' 10"	26' 0"	20' 8"	18' 0"
550S125-54	24		28' 8"	22' 9"	19' 10"	25' 0"	19' 10"	17' 4"	22' 9"	18' 0"	15' 9"
550S125-68	12	50	38' 8"	30' 9"	26' 10"	33' 10"	26' 10"	23' 5"	30' 9"	24' 5"	21' 4"
550S125-68	16		35' 2"	27' 11"	24' 5"	30' 9"	24' 5"	21' 4"	27' 11"	22' 2"	19' 4"
550S125-68	24		30' 9"	24' 5"	21' 4"	26' 10"	21' 4"	18' 7"	24' 5"	19' 4"	16' 11"
600S125-18	12	33	17' 4"	17' 4"	17' 4"	11' 6"	11' 6"	11' 6"	8' 8"	8' 8"	8' 8"
600S125-18	16		13' 0"	13' 0"	13' 0"	8' 8"	8' 8"	8' 8"	6' 6"	6' 6"	6' 6"
600S125-18	24		8' 8"	8' 8"	8' 8"	5' 9"	5' 9"	5' 9"	4' 4"	4' 4"	4' 4"
600S125-27	12	33	24' 11"	24' 4"	21' 3"	20' 4"	20' 4"	18' 7"	17' 7"	17' 7"	16' 10"
600S125-27	16		21' 7"	21' 7"	19' 4"	17' 7"	17' 7"	16' 10"	15' 3"	15' 3"	15' 3"
600S125-27	24		17' 7"	17' 7"	16' 10"	13' 7"	13' 7"	13' 7"	10' 2"	10' 2"	10' 2"

INTERIOR NON-STRUCTURAL NON-COMPOSITE LIMITING WALL HEIGHTS											
Member	Spacing	F _y , ksi	5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
600S125-30	12	33	26' 10"	25' 2"	22' 0"	21' 11"	21' 11"	19' 3"	19' 0"	19' 0"	17' 6"
600S125-30	16		23' 3"	22' 11"	20' 0"	19' 0"	19' 0"	17' 6"	16' 5"	16' 5"	15' 10"
600S125-30	24		19' 0"	19' 0"	17' 6"	15' 6"	15' 6"	15' 3"	12' 5"	12' 5"	12' 5"
600S125-33	12	33	29' 0"	26' 2"	22' 10"	23' 9"	22' 10"	19' 11"	20' 6"	20' 6"	18' 1"
600S125-33	16		25' 2"	23' 9"	20' 9"	20' 6"	20' 6"	18' 1"	17' 9"	17' 9"	16' 6"
600S125-33	24		20' 6"	20' 6"	18' 1"	16' 9"	16' 9"	15' 10"	14' 6"	14' 6"	14' 5"
600S125-43	12	33	35' 6"	28' 9"	25' 1"	29' 0"	25' 1"	21' 11"	25' 2"	22' 10"	19' 11"
600S125-43	16		30' 9"	26' 1"	22' 10"	25' 2"	22' 10"	19' 11"	21' 9"	20' 9"	18' 1"
600S125-43	24		25' 2"	22' 10"	19' 11"	20' 6"	19' 11"	17' 5"	17' 9"	17' 9"	15' 10"
600S125-54	12	50	38' 9"	30' 9"	26' 10"	33' 10"	26' 10"	23' 6"	30' 9"	24' 5"	21' 4"
600S125-54	16		35' 3"	27' 11"	24' 5"	30' 9"	24' 5"	21' 4"	27' 11"	22' 2"	19' 5"
600S125-54	24		30' 9"	24' 5"	21' 4"	26' 10"	21' 4"	18' 8"	24' 1"	19' 5"	16' 11"
600S125-68	12	50	41' 7"	33' 0"	28' 10"	36' 4"	28' 10"	25' 2"	33' 0"	26' 2"	22' 11"
600S125-68	16		37' 9"	30' 0"	26' 2"	33' 0"	26' 2"	22' 11"	30' 0"	23' 10"	20' 9"
600S125-68	24		33' 0"	26' 2"	22' 11"	28' 10"	22' 11"	20' 0"	26' 2"	20' 9"	18' 2"
800S125-33	12	33	33' 1"	32' 8"	28' 6"	27' 0"	27' 0"	24' 11"	23' 5"	23' 5"	22' 8"
800S125-33	16		28' 8"	28' 8"	25' 11"	23' 5"	23' 5"	22' 8"	20' 3"	20' 3"	20' 3"
800S125-33	24		23' 5"	23' 5"	22' 8"	19' 1"	19' 1"	19' 1"	14' 5"	14' 5"	14' 5"
800S125-43	12	33	40' 11"	36' 1"	31' 6"	33' 5"	31' 6"	27' 6"	28' 11"	28' 8"	25' 0"
800S125-43	16		35' 6"	32' 9"	28' 8"	28' 11"	28' 8"	25' 0"	25' 1"	25' 1"	22' 9"
800S125-43	24		28' 11"	28' 8"	25' 0"	23' 8"	23' 8"	21' 10"	20' 6"	20' 6"	19' 10"
800S125-54	12	50	48' 10"	38' 9"	33' 10"	42' 8"	33' 10"	29' 7"	38' 9"	30' 9"	26' 10"
800S125-54	16		44' 4"	35' 2"	30' 9"	38' 9"	30' 9"	26' 10"	34' 1"	27' 11"	24' 5"
800S125-54	24		38' 9"	30' 9"	26' 10"	32' 1"	26' 10"	23' 6"	27' 10"	24' 5"	21' 4"
800S125-68	12	50	52' 11"	42' 0"	36' 8"	46' 2"	36' 8"	32' 0"	42' 0"	33' 4"	29' 1"
800S125-68	16		48' 1"	38' 2"	33' 4"	42' 0"	33' 4"	29' 1"	38' 2"	30' 3"	26' 5"
800S125-68	24		42' 0"	33' 4"	29' 1"	36' 8"	29' 1"	25' 5"	33' 4"	26' 5"	23' 1"
162S162-43	12	33	14' 5"	11' 4"	9' 11"	12' 6"	9' 11"	8' 10"	11' 4"	9' 2"	8' 0"
162S162-43	16		12' 11"	10' 3"	9' 2"	11' 3"	9' 2"	8' 0"	10' 3"	8' 5"	7' 4"
162S162-43	24		11' 2"	9' 2"	8' 0"	9' 11"	8' 1"	7' 0"	9' 2"	7' 3"	6' 4"
162S162-43	12	50	14' 5"	11' 4"	9' 11"	12' 6"	9' 11"	8' 10"	11' 4"	9' 2"	8' 0"
162S162-43	16		12' 11"	10' 3"	9' 2"	11' 3"	9' 2"	8' 0"	10' 3"	8' 5"	7' 4"
162S162-43	24		11' 2"	9' 2"	8' 0"	9' 11"	8' 1"	7' 0"	9' 2"	7' 3"	6' 4"
162S162-54	12	50	15' 6"	12' 0"	10' 6"	13' 5"	10' 6"	9' 4"	12' 0"	9' 8"	8' 8"
162S162-54	16		13' 10"	10' 10"	9' 6"	11' 6"	9' 7"	8' 8"	10' 9"	8' 11"	8' 2"
162S162-54	24		11' 10"	9' 8"	8' 8"	10' 6"	8' 9"	8' 0"	9' 8"	8' 2"	7' 1"

INTERIOR NON-STRUCTURAL COMPOSITE LIMITING WALL HEIGHTS

NOTES:

1. Allowable composite heights are derived from tests conducted in accordance with ICC-ES AC86-2012.
2. Table heights also applicable for two layers of gypsum board.
3. The gypsum board (one or two layers) must be installed vertically full height to each stud flange using minimum No. 6 Type S Drywall screws spaced a maximum of 12 in. on-center for studs at 24-in spacing, and 16 in. on-center for studs at 16 and 12 in. spacing.
4. Application of gypsum board as required in accordance with Specification C840.
5. No fasteners are required for attaching the stud to the track, except as required by subsection 5.3.2.1.
6. Stud end bearing must be a minimum of 1 inch.
7. 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.



INTERIOR NON-STRUCTURAL COMPOSITE LIMITING WALL HEIGHTS											
Member	Spacing	F _y , ksi	5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	12	33	13' 0" f	11' 1"	9' 10"	10' 8" f	9' 8"	8' 7"	9' 3" f	8' 9"	7' 9"
162S125-18	16		11' 3" f	10' 1"	8' 11"	9' 3" f	8' 9"	7' 9"	8' 0" f	7' 11"	
162S125-18	24		9' 3" f	8' 9"	7' 9"						
162S125-27	12	33	14' 9"	11' 8"	10' 2"	12' 10"	10' 2"	8' 7"	11' 8"	9' 1"	7' 6"
162S125-27	16		13' 4"	10' 7"	9' 1"	11' 8"	9' 1"	7' 6"	10' 7"	7' 11"	
162S125-27	24		11' 8"	9' 1"		10' 2"			9' 1"		
162S125-30	12	33	14' 11"	11' 10"	10' 4"	13' 1"	10' 4"	8' 11"	11' 10"	9' 4"	7' 11"
162S125-30	16		13' 7"	10' 9"	9' 4"	11' 10"	9' 4"	7' 11"	10' 9"	8' 3"	
162S125-30	24		11' 10"	9' 4"	7' 11"	10' 4"	7' 11"		9' 4"		
250S125-18	12	33	16' 4" f	14' 2"	12' 9"	13' 4" f	12' 4"	11' 2"	11' 7" f	11' 3"	10' 2"
250S125-18	16		14' 2" f	12' 10"	11' 7"	11' 7" f	11' 3"	10' 2"	10' 0" f	10' 0" f	9' 0"
250S125-18	24		11' 7" f	11' 3"	10' 2"	9' 5" f	8' 6"	8' 2" f	8' 2" f		
250S125-27	12	33	18' 7"	15' 4"	13' 9"	16' 3"	13' 5"	12' 0"	14' 9"	12' 2"	10' 11"
250S125-27	16		16' 10"	13' 11"	12' 5"	14' 9"	12' 2"	10' 11"	13' 5"	11' 1"	9' 11"
250S125-27	24		14' 9"	12' 2"	10' 11"	12' 11"	10' 8"	9' 4"	11' 3" f	9' 8"	8' 1"
250S125-30	12	33	18' 5"	15' 10"	14' 1"	16' 1"	13' 10"	12' 4"	14' 7"	12' 7"	11' 2"
250S125-30	16		16' 9"	14' 5"	12' 10"	14' 7"	12' 7"	11' 2"	13' 3"	11' 5"	10' 2"
250S125-30	24		14' 7"	12' 7"	11' 2"	12' 9"	11' 0"	9' 9"	11' 7"	10' 0"	8' 8"
250S125-33	12	33	19' 8"	15' 8"	13' 8"	17' 3"	13' 8"	11' 11"	15' 8"	12' 5"	10' 10"
250S125-33	16		17' 11"	14' 3"	12' 5"	15' 8"	12' 5"	10' 10"	14' 3"	11' 3"	9' 10"
250S125-33	24		15' 8"	12' 5"	10' 10"	13' 8"	10' 10"	9' 5"	12' 4" f	9' 10"	8' 4"
350S125-18	12	33	18' 3" f	16' 4"	14' 4"	14' 11" f	14' 4"	12' 6"	12' 11"	12' 11" f	11' 4"
350S125-18	16		15' 10" f	14' 10"	13' 0"	12' 11" f	12' 11" f	11' 4"	11' 2"	11' 2" f	10' 3"
350S125-18	24		12' 11" f	12' 11" f	11' 4"	10' 7" f	10' 7" f	9' 11"	9' 2"	9' 2" f	9' 10"
350S125-27	12	33	22' 6"	17' 11"	15' 7"	19' 8"	15' 7"	13' 8"	17' 11"	14' 2"	12' 4"
350S125-27	16		20' 6"	16' 3"	14' 2"	17' 11"	14' 2"	12' 4"	15' 10" f	12' 11"	11' 2"
350S125-27	24		17' 11"	14' 2"	12' 4"	14' 11" f	12' 4"	10' 8"	12' 11" f	11' 2"	
350S125-30	12	33	22' 6"	17' 11"	15' 8"	19' 8"	15' 8"	13' 8"	17' 11"	14' 2"	12' 4"
350S125-30	16		20' 6"	16' 3"	14' 2"	17' 11"	14' 2"	12' 4"	16' 3"	12' 11"	11' 1"
350S125-30	24		17' 11"	14' 2"	12' 4"	15' 8"	12' 4"	10' 7"	13' 9" f	11' 1"	
350S125-33	12	33	23' 0"	18' 3"	15' 1"	20' 1"	15' 11"	13' 11"	18' 3"	14' 6"	12' 8"
350S125-33	16		20' 11"	16' 7"	14' 6"	18' 3"	14' 6"	12' 8"	16' 7"	13' 2"	11' 4"
350S125-33	24		18' 3"	14' 6"	12' 8"	15' 11"	12' 8"	10' 10"	14' 4" f	11' 4"	9' 8"
362S125-18	12	33	18' 8" f	16' 8"	14' 7"	15' 3" f	14' 7"	12' 9"	13' 2" f	13' 2" f	11' 6"
362S125-18	16		16' 2" f	15' 2"	13' 3"	13' 2" f	13' 2" f	11' 6"	11' 5" f	11' 5" f	10' 4"
362S125-18	24		13' 2" f	13' 2" f	11' 6"	10' 9" f	10' 9" f	9' 11"	9' 4" f	9' 4" f	8' 11"
362S125-27	12	33	22' 10"	18' 2"	15' 10"	19' 11"	15' 10"	13' 10"	18' 2"	14' 5"	12' 6"
362S125-27	16		20' 9"	16' 6"	14' 5"	18' 2"	14' 5"	12' 6"	15' 9" f	13' 1"	11' 1"
362S125-27	24		18' 2"	14' 5"	12' 6"	14' 11" f	12' 6"	10' 7"	12' 11" f	11' 11"	
362S125-30	12	33	22' 10"	18' 3"	16' 4"	19' 11"	16' 0"	14' 3"	18' 1"	14' 6"	12' 11"
362S125-30	16		20' 8"	16' 7"	14' 10"	18' 1"	14' 6"	12' 11"	16' 5"	13' 2"	11' 6"
362S125-30	24		18' 1"	14' 6"	12' 11"	15' 9" f	12' 8"	10' 11"	13' 8" f	11' 4"	

INTERIOR NON-STRUCTURAL COMPOSITE LIMITING WALL HEIGHTS											
Member	Spacing	Fy, ksi	5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
362S125-33	12	33	24' 2"	19' 2"	16' 9"	21' 1"	16' 9"	14' 8"	19' 2"	15' 3"	13' 4"
362S125-33	16		21' 11"	17' 5"	15' 3"	19' 2"	15' 3"	13' 4"	17' 5"	13' 10"	11' 11"
362S125-33	24		19' 2"	15' 3"	13' 4"	16' 8" f	13' 4"	11' 4"	14' 5" f	11' 11"	10' 1"
400S125-18	12	33	19' 3" f	17' 6"	15' 4"	15' 9" f	15' 4"	13' 4"	13' 8" f	13' 8" f	12' 2"
400S125-18	16		16' 8" f	15' 11"	13' 11"	13' 8" f	13' 8" f	12' 2"	11' 10" f	11' 10" f	11' 0"
400S125-18	24		13' 8" f	13' 8" f	12' 2"	11' 2" f	11' 2" f	10' 7"	9' 8" f	9' 8" f	9' 7"
400S125-27	12	33	24' 6"	19' 5"	17' 0"	21' 5"	17' 0"	14' 10"	18' 8" f	15' 5"	13' 6"
400S125-27	16		22' 3"	17' 8"	15' 5"	18' 8" f	15' 5"	13' 6"	16' 2" f	14' 0"	12' 2"
400S125-27	24		18' 8" f	15' 5"	13' 6"	15' 3" f	13' 6"	11' 8"	13' 3" f	12' 2"	10' 6"
400S125-30	12	33	24' 6"	19' 5"	17' 0"	21' 5"	17' 0"	14' 10"	19' 5"	15' 5"	13' 6"
400S125-30	16		22' 3"	17' 8"	15' 5"	19' 5"	15' 5"	13' 6"	17' 5" f	14' 0"	12' 2"
400S125-30	24		19' 5"	15' 5"	13' 6"	16' 5" f	13' 6"	11' 7"	14' 2" f	12' 2"	10' 4"
400S125-33	12	33	25' 3"	20' 1"	17' 6"	22' 1"	17' 6"	15' 4"	20' 1"	15' 11"	13' 11"
400S125-33	16		22' 11"	18' 3"	15' 11"	20' 1"	15' 11"	13' 11"	18' 3"	14' 5"	12' 7"
400S125-33	24		20' 1"	15' 11"	13' 11"	17' 3" f	13' 11"	12' 0"	15' 0" f	12' 7"	10' 9"
550S125-18	12	33	21' 11" f	21' 11" f	19' 6"	17' 10"	17' 10"	17' 0"	15' 6" f	15' 6" f	15' 6" f
550S125-18	16		19' 0" f	19' 0" f	17' 9"	15' 6" f	15' 6" f	15' 6" f	13' 5" f	13' 5" f	13' 5" f
550S125-18	24		15' 6" f	15' 6" f	15' 6" f	12' 8" f	12' 8" f	12' 8" f			
550S125-27	12	33	30' 4"	24' 8"	21' 10"	26' 9" f	21' 10"	19' 4"	23' 2" f	20' 0"	17' 8"
550S125-27	16		27' 11"	22' 8"	20' 0"	23' 2" f	20' 0"	17' 8"	20' 1" f	18' 4"	16' 0"
550S125-27	24		23' 2" f	20' 0"	17' 8"	18' 11"	17' 8"	15' 5"	16' 5" f	16' 0"	
550S125-30	12	33	30' 5"	24' 10"	22' 0"	27' 0"	22' 6"	19' 5"	24' 10"	20' 2"	17' 10"
550S125-30	16		28' 0"	22' 9"	20' 2"	24' 10"	20' 2"	17' 10"	21' 7" f	18' 6"	16' 2"
550S125-30	24		24' 10"	20' 2"	17' 10"	20' 4" f	17' 10"	15' 7"	17' 7" f	16' 2"	
600S125-18	12	33	23' 2" f	22' 9"	19' 11"	18' 11"	18' 11" f	17' 5"	16' 4" f	16' 4" f	15' 10"
600S125-18	16		20' 1" f	20' 1" f	18' 1"	16' 4" f	16' 4" f	15' 10"	14' 2" f	14' 2" f	14' 2" f
600S125-18	24		16' 4" f	16' 4" f	15' 10"	13' 4" f	13' 4" f	13' 4" f			
600S125-27	12	33	32' 5" f	26' 9"	23' 5"	26' 5" f	23' 5"	20' 5"	22' 11" f	21' 3"	18' 7"
600S125-27	16		28' 1" f	24' 4"	21' 3"	22' 11"	21' 3"	18' 7"	19' 10" f	19' 4"	16' 10"
600S125-27	24		22' 11" f	21' 3"	18' 7"	18' 8" f	18' 7"	16' 1"	16' 2" f	16' 2" f	
600S125-30	12	33	34' 2"	27' 1"	23' 8"	28' 11"	23' 8"	20' 8"	25' 0" f	21' 6"	18' 9"
600S125-30	16		30' 8" f	24' 7"	21' 6"	25' 0" f	21' 6"	18' 9"	21' 8" f	19' 6"	17' 1"
600S125-30	24		25' 0" f	21' 6"	18' 9"	20' 5" f	18' 9"	16' 5"	17' 8" f	17' 1"	
600S125-33	12	33	35' 4"	28' 1"	24' 6"	30' 10"	24' 6"	21' 5"	27' 10" f	22' 3"	19' 5"
600S125-33	16		32' 1" f	25' 6"	22' 3"	27' 10"	22' 3"	19' 5"	24' 1" f	20' 3"	17' 8"
600S125-33	24		27' 10" f	22' 3"	19' 5"	22' 9" f	19' 5"	16' 11"	19' 8" f	17' 8"	

LIMITING WALL HEIGHTS – CURTAIN WALL:

NOTES:

1. Lateral loads have not been modified for strength checks: full loads are applied.
2. Calculated properties are based on AISI S100-12.
3. For 15 psf or higher wind pressure, read the notes below:

3.1 IBC 2012/ASCE 7-10:

Due to the change in the model building codes, design wind pressures determined using IBC 2012/ASCE 7-10 are strength level loads (LRFD) in comparison to those determined in earlier IBC codes which were service level loads (ASD). The load/span tables that follow are based on service level (ASD) wind loads. Therefore, to properly use the load/span tables in this catalog, multiply the IBC 2012/ASCE 7-10 design wind pressures by 0.6 (Reference section 2.4 ASCE 7-10) prior to entering the load/span tables.

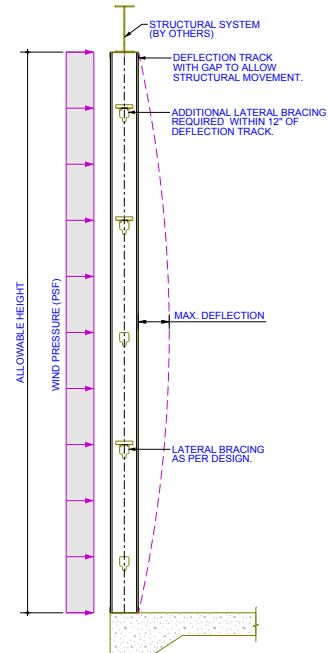
3.2 Example:

- ASCE 7-10 Calculated Design Wind Pressure = 25 psf (Strength level loads, LRFD)
- Convert to service level loads (ASD) = $25 \text{ psf} \times 0.6 = 15 \text{ psf}$
- Use 15 psf as the Pressure Value used in this Table to determine the member span

3.3 Any Other Building Code:

The load/span tables that follow are based on service level (ASD) wind loads. If the wind load being used meets this criterion, it does not need to be modified prior to using the tables.

4. 15 psf and higher wind pressures have been multiplied by 0.7 for deflection determination, in accordance with footnote "f" of IBC Table 1604.3.
5. Limiting heights are based on continuous support of each flange over the full length of the stud.
6. Limiting heights are based on steel properties alone (non-composite).
7. Web crippling checks are based on end-one flange loading condition using 1-inch end bearing.
8. End shear and web crippling capacity have not been reduced for punch-outs. Punch-outs are assumed to be at least 10-inches from the end of members, in accordance with ASTM C955, Section 4.6.
9. Where limiting heights are followed by "e", web stiffeners are required.



CURTAIN WALL - LIMITING WALL HEIGHTS																							
Member	Spacing	Fy, ksi	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
2505137-33	12	33	17'6"	13'10"	12'1"	10'10"	9'5"	8'0"	9'10"	8'7"	7'3"	9'1"	8'0"	6'9"	8'4"	7'6"	6'4"	7'8"	7'2"	6'0"	7'2"	6'10"	5'9"
2505137-33	16		15'10"	12'7"	11'0"	9'10"	8'7"	7'3"	8'10"	7'10"	6'7"	7'10"	7'3"	6'1"	7'2"	6'10"	5'9"	6'8"	6'6"	5'6"	6'3"	6'2"	5'3"
2505137-33	24		13'10"	11'0"	9'7"	8'4"	7'6"	6'4"	7'2"	6'10"	5'9"	6'5"	6'4"	5'4"	5'10"	5'10"	5'0"	5'5"	5'5"	4'9"	5'1"	5'1"	4'7"
2505137-43	12	33	19'0"	15'1"	13'2"	11'9"	10'3"	8'8"	10'8"	9'4"	7'10"	9'11"	8'8"	7'4"	9'4"	8'2"	6'11"	8'10"	7'9"	6'6"	8'6"	7'5"	6'3"
2505137-43	16		17'3"	13'8"	11'11"	10'8"	9'4"	7'10"	9'9"	8'6"	7'2"	9'0"	7'10"	6'8"	8'6"	7'5"	6'3"	8'1"	7'0"	5'11"	7'6"	6'9"	5'8"
2505137-43	24		15'1"	11'11"	10'5"	9'4"	8'2"	6'11"	8'6"	7'5"	6'3"	7'9"	6'11"	5'10"	7'1"	6'6"	5'6"	6'7"	6'2"	5'2"	6'2"	5'11"	5'0"
2505137-54	12	50	20'3"	16'1"	14'1"	12'7"	11'0"	9'3"	11'5"	10'0"	8'5"	10'7"	9'3"	7'10"	10'0"	8'9"	7'4"	9'6"	8'3"	7'0"	9'1"	7'11"	6'8"
2505137-54	16		18'5"	14'8"	12'9"	11'5"	10'0"	8'5"	10'5"	9'1"	7'8"	9'8"	8'5"	7'1"	9'1"	7'11"	6'8"	8'7"	7'6"	6'4"	8'3"	7'2"	6'1"
2505137-54	24		16'1"	12'9"	11'2"	10'0"	8'9"	7'4"	9'1"	7'11"	6'8"	8'5"	7'4"	6'2"	7'11"	6'11"	5'10"	7'6"	6'7"	5'7"	7'2"	6'3"	5'4"
2505137-68	12	50	21'8"	17'2"	15'0"	13'5"	11'9"	9'11"	12'2"	10'8"	9'0"	11'4"	9'11"	8'4"	10'8"	9'4"	7'10"	10'1"	8'10"	7'5"	9'8"	8'5"	7'1"
2505137-68	16		19'8"	15'7"	13'8"	12'2"	10'8"	9'0"	11'1"	9'8"	8'2"	10'3"	9'0"	7'7"	9'8"	8'5"	7'1"	9'2"	8'0"	6'9"	8'9"	7'8"	6'6"
2505137-68	24		17'2"	13'8"	11'11"	10'8"	9'4"	7'10"	9'8"	8'5"	7'1"	9'0"	7'10"	6'7"	8'5"	7'5"	6'3"	8'0"	7'0"	5'11"	7'8"	6'8"	5'8"
2505162-33	12	33	18'4"	14'7"	12'9"	11'4"	9'11"	8'5"	10'4"	9'0"	7'7"	9'7"	8'5"	7'1"	8'11"	7'11"	6'8"	8'3"	7'6"	6'4"	7'8"	7'2"	6'0"
2505162-33	16		16'8"	13'3"	11'7"	10'4"	9'0"	7'7"	9'5"	8'2"	6'11"	8'5"	7'7"	6'5"	7'8"	7'2"	6'0"	7'2"	6'10"	5'9"	6'8"	6'6"	5'6"
2505162-33	24		14'7"	11'7"	10'1"	8'11"	7'11"	6'8"	7'8"	7'2"	6'0"	6'11"	6'8"	5'7"	6'3"	6'3"	5'3"	5'10"	5'10"	5'0"	5'5"	5'5"	4'10"
2505162-43	12	33	19'11"	15'10"	13'10"	12'4"	10'10"	9'1"	11'3"	9'10"	8'3"	10'5"	9'1"	7'8"	9'10"	8'7"	7'3"	9'4"	8'2"	6'10"	8'11"	7'9"	6'7"
2505162-43	16		18'1"	14'4"	12'7"	11'3"	9'10"	8'3"	10'2"	8'11"	7'6"	9'6"	8'3"	7'0"	8'11"	7'9"	6'7"	8'6"	7'5"	6'3"	8'1"	7'1"	6'0"
2505162-43	24		15'10"	12'7"	11'0"	9'10"	8'7"	7'3"	8'11"	7'9"	6'7"	8'3"	7'3"	6'1"	7'7"	6'10"	5'9"	7'1"	6'6"	5'5"	6'7"	6'2"	5'3"
2505162-54	12	50	21'4"	16'11"	14'9"	13'3"	11'7"	9'9"	12'0"	10'6"	8'10"	11'2"	9'9"	8'3"	10'6"	9'2"	7'9"	10'0"	8'8"	7'4"	9'6"	8'4"	7'0"
2505162-54	16		19'4"	15'5"	13'5"	12'0"	10'6"	8'10"	10'11"	9'6"	8'0"	10'2"	8'10"	7'6"	9'6"	8'4"	7'0"	9'1"	7'11"	6'8"	8'8"	7'7"	6'5"
2505162-54	24		16'11"	13'5"	11'9"	10'6"	9'2"	7'9"	9'6"	8'4"	7'0"	8'10"	7'9"	6'6"	8'4"	7'3"	6'2"	7'11"	6'11"	5'10"	7'7"	6'7"	5'7"
2505162-68	12	50	22'9"	18'1"	15'9"	14'1"	12'4"	10'5"	12'10"	11'2"	9'5"	11'11"	10'5"	8'9"	11'2"	9'9"	8'3"	10'8"	9'4"	7'10"	10'2"	8'11"	7'6"
2505162-68	16		20'8"	16'5"	14'4"	12'10"	11'2"	9'5"	11'8"	10'2"	8'7"	10'10"	9'5"	8'0"	10'2"	8'11"	7'6"	9'8"	8'5"	7'1"	9'3"	8'1"	6'10"
2505162-68	24		18'1"	14'4"	12'6"	11'2"	9'9"	8'3"	10'2"	8'11"	7'6"	9'5"	8'3"	7'0"	8'11"	7'9"	6'7"	8'5"	7'5"	6'3"	8'1"	7'1"	5'11"
3505162-33	12	33	23'9"	18'10"	16'5"	14'8"	12'10"	10'10"	13'0"	11'8"	9'10"	11'8"	10'10"	9'2"	10'8"	10'2"	8'7"	9'10"	9'8"	8'2"	9'2"	9'2"	7'10"
3505162-33	16		21'7"	17'1"	14'11"	13'0"	11'8"	9'10"	11'3"	10'7"	8'11"	10'1"	9'10"	8'4"	9'2"	9'2"	7'10"	8'6"	8'6"	7'5"	8'0"	8'0"	7'1"
3505162-33	24		18'5"	14'11"	13'1"	10'8"	10'2"	8'7"	9'2"	7'10"	6'8"	8'3"	8'3"	7'3"	7'6"	7'6"	6'10"	7'0"	7'0"	6'6"	6'6"	6'6"	6'2"
3505162-43	12	33	25'10"	20'6"	17'11"	16'0"	14'0"	11'9"	14'6"	12'8"	10'8"	13'6"	11'9"	9'11"	12'6"	11'1"	9'4"	11'7"	10'6"	8'11"	10'10"	10'1"	8'6"
3505162-43	16		23'5"	18'7"	16'3"	14'6"	12'8"	10'8"	13'2"	11'6"	9'9"	11'10"	10'8"	9'0"	10'10"	10'1"	8'6"	10'0"	9'7"	8'1"	9'5"	9'2"	7'9"
3505162-43	24		20'6"	16'3"	14'2"	12'6"	11'1"	9'4"	10'10"	10'1"	8'6"	9'8"	9'4"	7'11"	8'10"	8'10"	7'5"	8'2"	8'2"	7'1"	7'8"	7'8"	6'9"
3505162-54	12	50	27'8"	21'11"	19'2"	17'2"	15'0"	12'7"	15'7"	13'7"	11'6"	14'5"	12'7"	10'8"	13'7"	11'10"	10'0"	12'11"	11'3"	9'6"	12'4"	10'9"	9'1"
3505162-54	16		25'1"	19'11"	17'5"	15'7"	13'7"	11'6"	14'2"	12'4"	10'5"	13'1"	11'6"	9'8"	12'4"	10'9"	9'1"	11'9"	10'3"	8'8"	11'3"	9'10"	8'3"
3505162-54	24		21'11"	17'5"	15'2"	13'7"	11'10"	10'0"	12'4"	10'9"	9'1"	11'6"	10'0"	8'5"	10'9"	9'5"	7'11"	10'3"	8'11"	7'7"	9'10"	8'7"	7'3"
3505162-68	12	50	29'7"	23'6"	20'6"	18'4"	16'0"	13'6"	16'8"	14'6"	12'3"	15'5"	13'6"	11'5"	14'6"	12'8"	10'9"	13'10"	12'1"	10'2"	13'3"	11'6"	9'9"
3505162-68	16		26'10"	21'4"	18'7"	16'8"	14'6"	12'3"	15'1"	13'3"	11'2"	14'0"	12'3"	10'4"	13'3"	11'6"	9'9"	12'7"	11'0"	9'3"	12'0"	10'6"	8'10"
3505162-68	24		23'6"	18'7"	16'3"	14'6"	12'8"	10'9"	13'3"	11'6"	9'9"	12'3"	10'9"	9'0"	11'6"	10'1"	8'6"	11'0"	9'7"	8'1"	10'6"	9'2"	7'9"
3505162-97	12	50	32'7"	25'10"	22'7"	20'2"	17'8"	14'11"	18'4"	16'0"	13'6"	17'0"	14'11"	12'7"	16'0"	14'0"	11'10"	15'3"	13'4"	11'3"	14'7"	12'9"	10'9"
3505162-97	16		29'7"	23'6"	20'6"	18'4"	16'0"	13'6"	16'8"	14'7"	12'3"	15'6"	13'6"	11'5"	14'7"	12'9"	10'9"	13'10"	12'1"	10'2"	13'3"	11'7"	9'9"
3505162-97	24		25'10"	20'6"	17'11"	16'0"	14'0"	11'10"	14'7"	12'9"	10'9"	13'6"	11'10"	10'0"	12'9"	11'1"	9'5"	12'1"	10'7"	8'11"	11'7"	10'1"	8'6"
3505200-43	12	33	27'3"	21'8"	18'11"	16'11"	14'9"	12'5"	15'4"	13'5"	11'4"	14'3"	12'5"	10'6"	13'5"	11'9"	9'11"	12'6"	11'1"	9'5"	11'9"	10'8"	9'0"
3505200-43	16		24'9"	19'8"	17'2"	15'4"	13'5"	11'4"	13'11"	12'2"	10'3"	12'10"	11'4"	9'6"	11'9"	10'8"	9'0"	10'10"	10'1"	8'6"	10'2"	9'8"	8'2"
3505200-43	24		21'8"	17'2"	15'0"	13'5"	11'9"	9'11"	11'9"	10'8"	9'0"	10'6"	9'11"	8'4"	9'7"	9'4"	7'10"	8'10"	8'10"	7'5"	8'3"	8'3"	7'1"
3505200-54	12	50	29'3"	23'2"	20'3"	18'1"	15'10"	13'4"	16'5"	14'4"	12'1"	15'3"	13'4"	11'3"	14'4"	12'7"	10'7"	13'8"	11'11"	10'1"	13'1"	11'5"	9'7"
3505200-54	16		26'6"	21'1"	18'5"	16'5"	14'4"	12'1"	14'11"	13'1"	11'0"	13'10"	12'1"	10'3"	13'1"	11'5"	9'7"	12'5"	10'10"	9'2"	11'10"	10'4"	8'9"
3505200-54	24		23'2"	18'5"	16'1"	14'4"	12'7"	10'7"	13'1"	11'5"	9'7"	12'1"	10'7"	8'11"	11'5"	10'0"	8'5"	10'10"	9'6"	8'0"	10'4"	9'1"	7'8"
3505200-68	12	50	31'3"	24'10"	21'8"	19'5"	16'11"	14'3"	17'7"	15'5"	13'0"	16'4"	14'3"	12'1"	15'5"	13'5"	11'4"	14'7"	12'9"	10'9"	14'0"	12'3"	10'4"
3505200-68	16		28'5"	22'7"	19'8"	17'7"	15'5"	13'0"	16'0"	14'0"	11'9"	14'10"	13'0"	10'11"	14'0"	12'3"	10'4"	13'3"	11				

CURTAIN WALL - LIMITING WALL HEIGHTS

Member	Spacing	Fy, ksi	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
3625162-97	12	50	33' 6"	26' 7"	23' 3"	20' 9"	18' 2"	15' 4"	18' 10"	16' 6"	13' 11"	17' 6"	15' 4"	12' 11"	16' 6"	14' 5"	12' 2"	15' 8"	13' 8"	11' 6"	15' 0"	13' 1"	11' 0"
3625162-97	16		30' 5"	24' 2"	21' 1"	18' 10"	16' 6"	13' 11"	17' 2"	15' 0"	12' 8"	15' 11"	13' 11"	11' 9"	15' 0"	13' 1"	11' 0"	14' 3"	12' 5"	10' 6"	13' 7"	11' 11"	10' 0"
3625162-97	24		26' 7"	21' 1"	18' 5"	16' 6"	14' 5"	12' 2"	15' 0"	13' 1"	11' 0"	13' 11"	12' 2"	10' 3"	13' 1"	11' 5"	9' 8"	12' 5"	10' 10"	9' 2"	11' 11"	10' 5"	8' 9"
3625200-33	12	33	25' 8"	20' 4"	17' 9"	15' 11" e	13' 11" e	11' 8" e	13' 11" e	12' 7" e	10' 8" e	12' 5" e	11' 8" e	9' 10" e	11' 4" e	11' 0" e	9' 3" e	10' 6" e	10' 6" e	8' 10" e	9' 10" e	9' 10" e	8' 5" e
3625200-33	16		23' 3"	18' 6"	16' 2"	13' 11" e	12' 7" e	10' 8" e	12' 1" e	11' 5" e	9' 8" e	10' 9" e	10' 8" e	9' 0" e	9' 10" e	9' 10" e	8' 5" e	9' 1" e	9' 1" e	8' 0" e	8' 6" e	8' 6" e	7' 8" e
3625200-33	24		19' 8"	16' 2"	14' 1"	11' 4" e	11' 0" e	9' 3" e	9' 10" e	9' 10" e	8' 5" e	8' 10" e	8' 10" e	7' 10" e	8' 0" e	8' 0" e	7' 4" e	7' 5" e	7' 5" e	7' 0" e	7' 0" e	7' 0" e	6' 8" e
3625200-43	12	33	28' 0"	22' 3"	19' 5"	17' 4"	15' 2"	12' 9"	15' 9"	13' 9"	11' 7"	14' 8"	12' 9"	10' 9"	13' 8"	12' 0"	10' 2"	12' 8"	11' 5"	9' 8"	11' 10"	10' 11"	9' 3"
3625200-43	16		25' 5"	20' 2"	17' 8"	15' 9"	13' 9"	11' 7"	14' 4"	12' 6"	10' 7"	13' 0"	11' 7"	9' 10"	11' 10"	10' 11"	9' 3"	11' 0"	10' 5"	8' 9"	10' 3"	9' 11"	8' 4"
3625200-43	24		22' 3"	17' 8"	15' 5"	13' 8" e	12' 0" e	10' 2" e	11' 10" e	10' 11" e	9' 3" e	10' 7" e	10' 2" e	8' 7" e	9' 8" e	9' 7" e	8' 1" e	9' 0" e	9' 0" e	7' 8" e	8' 5" e	8' 5" e	7' 4" e
3625200-54	12	50	30' 0"	23' 10"	20' 10"	18' 7"	16' 3"	13' 8"	16' 11"	14' 9"	12' 5"	15' 8"	13' 8"	11' 7"	14' 9"	12' 11"	10' 11"	14' 0"	12' 3"	10' 4"	13' 5"	11' 9"	9' 11"
3625200-54	16		27' 3"	21' 8"	18' 11"	16' 11"	14' 9"	12' 5"	15' 4"	13' 5"	11' 4"	14' 3"	12' 5"	10' 6"	13' 5"	11' 9"	9' 11"	12' 9"	11' 2"	9' 5"	12' 2"	10' 8"	9' 0"
3625200-54	24		23' 10"	18' 11"	16' 6"	14' 9"	12' 11"	10' 11"	13' 5"	11' 9"	9' 11"	12' 5"	10' 11"	9' 2"	11' 9"	10' 3"	8' 8"	11' 2"	9' 9"	8' 2"	10' 8"	9' 4"	7' 10"
3625200-68	12	50	32' 2"	25' 6"	22' 3"	19' 11"	17' 5"	14' 8"	18' 1"	15' 10"	13' 4"	16' 10"	14' 8"	12' 5"	15' 10"	13' 10"	11' 8"	15' 0"	13' 1"	11' 1"	14' 4"	12' 7"	10' 7"
3625200-68	16		29' 2"	23' 2"	20' 3"	18' 1"	15' 10"	13' 4"	16' 5"	14' 4"	12' 1"	15' 3"	13' 4"	11' 3"	14' 4"	12' 7"	10' 7"	13' 8"	11' 11"	10' 1"	13' 1"	11' 5"	9' 7"
3625200-68	24		25' 6"	20' 3"	17' 8"	15' 10"	13' 10"	11' 8"	14' 4"	12' 7"	10' 7"	13' 4"	11' 8"	9' 10"	12' 7"	11' 0"	9' 3"	11' 11"	10' 5"	8' 9"	11' 5"	10' 0"	8' 5"
3625200-97	12	50	35' 6"	28' 3"	24' 8"	22' 0"	19' 3"	16' 3"	20' 0"	17' 6"	14' 9"	18' 7"	16' 3"	13' 8"	17' 6"	15' 3"	12' 11"	16' 7"	14' 6"	12' 3"	15' 11"	13' 11"	11' 8"
3625200-97	16		32' 3"	25' 8"	22' 5"	20' 0"	17' 6"	14' 9"	18' 2"	15' 11"	13' 5"	16' 11"	14' 9"	12' 5"	15' 11"	13' 11"	11' 8"	15' 1"	13' 2"	11' 1"	14' 5"	12' 7"	10' 8"
3625200-97	24		28' 3"	22' 5"	19' 7"	17' 6"	15' 3"	12' 11"	15' 11"	13' 11"	11' 8"	14' 9"	12' 11"	10' 10"	13' 11"	12' 1"	10' 3"	13' 2"	11' 6"	9' 9"	12' 7"	11' 0"	9' 3"
3625250-33	12	33	26' 8"	21' 2"	18' 6"	16' 6" e	14' 5" e	12' 2" e	14' 7" e	13' 2" e	11' 1" e	13' 0" e	12' 2" e	10' 3" e	11' 11" e	11' 6" e	9' 8" e	11' 0" e	10' 11" e	9' 2" e	10' 4" e	10' 4" e	8' 9" e
3625250-33	16		24' 3"	19' 3"	16' 10"	14' 7" e	13' 2" e	11' 1" e	12' 7" e	11' 11" e	10' 1" e	11' 3" e	11' 1" e	9' 4" e	10' 4" e	10' 4" e	8' 9" e	9' 6" e	9' 6" e	8' 4" e	8' 11" e	8' 11" e	8' 0" e
3625250-33	24		20' 7"	16' 10"	14' 8"	11' 11" e	11' 6" e	9' 8" e	10' 4" e	10' 4" e	8' 9" e	9' 3" e	9' 3" e	8' 2" e	8' 5" e	8' 5" e	7' 8" e	7' 9" e	7' 9" e	7' 4" e	7' 3" e	7' 3" e	7' 0" e
3625250-54	12	50	31' 7"	25' 1"	21' 11"	19' 7"	17' 1"	14' 5"	17' 9"	15' 6"	13' 1"	16' 6"	14' 5"	12' 2"	15' 6"	13' 7"	11' 5"	14' 9"	12' 11"	10' 10"	14' 1"	12' 4"	10' 5"
3625250-54	16		28' 8"	22' 9"	19' 11"	17' 9"	15' 6"	13' 1"	16' 2"	14' 1"	11' 11"	15' 0"	13' 1"	11' 1"	14' 1"	12' 4"	10' 5"	13' 5"	11' 8"	9' 10"	12' 10"	11' 2"	9' 5"
3625250-54	24		25' 1"	19' 11"	17' 4"	15' 6"	13' 7"	11' 5"	14' 1"	12' 4"	10' 5"	13' 1"	11' 5"	9' 8"	12' 4"	10' 9"	9' 1"	11' 8"	10' 3"	8' 7"	11' 2"	9' 9"	8' 3"
3625250-68	12	50	33' 11"	26' 11"	23' 6"	21' 0"	18' 5"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"	16' 8"	14' 7"	12' 4"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"
3625250-68	16		30' 10"	24' 6"	21' 5"	19' 1"	16' 8"	14' 1"	17' 4"	15' 2"	12' 10"	16' 1"	14' 1"	11' 11"	15' 2"	13' 3"	11' 2"	14' 5"	12' 7"	10' 7"	13' 9"	12' 0"	10' 2"
3625250-68	24		26' 11"	21' 5"	18' 8"	16' 8"	14' 7"	12' 4"	15' 2"	13' 3"	11' 2"	14' 1"	12' 4"	10' 5"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 0"	10' 6"	8' 10"
3625250-97	12	50	37' 7"	29' 10"	26' 1"	23' 4"	20' 4"	17' 2"	21' 2"	18' 6"	15' 7"	19' 8"	17' 2"	14' 6"	18' 6"	16' 2"	13' 8"	17' 7"	15' 4"	12' 11"	16' 10"	14' 8"	12' 5"
3625250-97	16		34' 2"	27' 1"	23' 8"	21' 2"	18' 6"	15' 7"	19' 3"	16' 10"	14' 2"	17' 10"	15' 7"	13' 2"	16' 10"	14' 8"	12' 5"	16' 0"	13' 11"	11' 9"	15' 3"	13' 4"	11' 3"
3625250-97	24		29' 10"	23' 8"	20' 8"	18' 6"	16' 2"	13' 8"	16' 10"	14' 8"	12' 5"	15' 7"	13' 8"	11' 6"	14' 8"	12' 10"	10' 10"	13' 11"	12' 2"	10' 3"	13' 4"	11' 8"	9' 10"
3625300-33	12	33	27' 6"	21' 10"	19' 1"	17' 0" e	14' 11" e	12' 7" e	14' 8" e	13' 6" e	11' 5" e	13' 2" e	12' 7" e	10' 7" e	12' 0" e	11' 10" e	10' 0" e	11' 1" e	11' 1" e	9' 6" e	10' 5" e	10' 5" e	9' 1" e
3625300-33	16		25' 0"	19' 10"	17' 4"	14' 8" e	13' 6" e	11' 5" e	12' 9" e	12' 4" e	10' 4" e	11' 5" e	11' 5" e	9' 8" e	10' 5" e	10' 5" e	9' 1" e	9' 7" e	9' 7" e	8' 7" e	9' 0" e	9' 0" e	8' 3" e
3625300-33	24		20' 9"	17' 4"	15' 2"	12' 0" e	11' 10" e	10' 0" e	10' 5" e	10' 5" e	9' 1" e	9' 4" e	9' 4" e	8' 5" e	8' 6" e	8' 6" e	7' 11" e	7' 10" e	7' 10" e	7' 6" e	7' 4" e	7' 4" e	7' 2" e
3625300-54	12	50	32' 5"	25' 8"	22' 5"	20' 1"	17' 6"	14' 9"	18' 3"	15' 11"	13' 5"	16' 11"	14' 9"	12' 6"	15' 11"	13' 11"	11' 9"	15' 2"	13' 3"	11' 2"	14' 6"	12' 8"	10' 8"
3625300-54	16		29' 5"	23' 4"	20' 5"	18' 3"	15' 11"	13' 5"	16' 7"	14' 6"	12' 2"	15' 5"	13' 5"	11' 4"	14' 6"	12' 8"	10' 8"	13' 9"	12' 0"	10' 2"	13' 2"	11' 6"	9' 8"
3625300-54	24		25' 8"	20' 5"	17' 10"	15' 11"	13' 11"	11' 9"	14' 6"	12' 8"	10' 8"	13' 5"	11' 9"	9' 11"	12' 8"	11' 1"	9' 4"	12' 0"	10' 6"	8' 10"	11' 6"	10' 0"	8' 6"
3625300-68	12	50	35' 4"	28' 0"	24' 6"	21' 11"	19' 2"	16' 2"	19' 11"	17' 5"	14' 8"	18' 6"	16' 2"	13' 7"	17' 5"	15' 2"	12' 10"	16' 6"	14' 5"	12' 2"	15' 9"	13' 10"	11' 8"
3625300-68	16		32' 1"	25' 6"	22' 3"	19' 11"	17' 5"	14' 8"	18' 1"	15' 9"	13' 4"	16' 9"	14' 8"	12' 4"	15' 9"	13' 10"	11' 8"	15' 0"	13' 1"	11' 1"	14' 4"	12' 6"	10' 7"
3625300-68	24		28' 0"	22' 3"	19' 5"	17' 5"	15' 2"	12' 10"	15' 9"	13' 10"	11' 8"	14' 8"	12' 10"	10' 10"	13' 10"	12' 1"	10' 2"	13' 1"	11' 5"	9' 8"	12' 6"	10' 11"	9' 3"
3625300-97	12	50	39'																				

CURTAIN WALL - LIMITING WALL HEIGHTS																							
Member	Spacing	Fy, ksi	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
4005250-33	12	33	28' 9"	22' 10"	19' 11"	17' 10" e	15' 7" e	13' 1" e	15' 5" e	14' 2" e	11' 11" e	13' 10" e	13' 1" e	11' 1" e	12' 7" e	12' 4" e	10' 5" e	11' 8" e	11' 8" e	9' 11" e	10' 11" e	10' 11" e	9' 6" e
4005250-33	16		26' 1"	20' 9"	18' 1"	15' 5" e	14' 2" e	11' 11" e	13' 4" e	12' 10" e	10' 10" e	11' 11" e	11' 11" e	10' 1" e	10' 11" e	10' 11" e	9' 6" e	10' 1" e	10' 1" e	9' 0" e	9' 5" e	9' 5" e	8' 7" e
4005250-33	24		21' 10"	18' 1"	15' 10"	12' 7" e	12' 4" e	10' 5" e	10' 11" e	10' 11" e	9' 6" e	9' 9" e	9' 9" e	8' 9" e	8' 11" e	8' 11" e	8' 3" e	8' 3" e	8' 3" e	7' 10" e	7' 9" e	7' 9" e	7' 6" e
4005250-54	12	50	34' 0"	27' 0"	23' 7"	21' 1"	18' 5"	15' 6"	19' 2"	16' 9"	14' 1"	17' 9"	15' 6"	13' 1"	16' 9"	14' 7"	12' 4"	15' 11"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"
4005250-54	16		30' 10"	24' 6"	21' 5"	19' 2"	16' 9"	14' 1"	17' 5"	15' 2"	12' 10"	16' 2"	14' 1"	11' 11"	15' 2"	13' 3"	11' 2"	14' 5"	12' 7"	10' 8"	13' 10"	12' 1"	10' 2"
4005250-54	24		27' 0"	21' 5"	18' 8"	16' 9"	14' 7"	12' 4"	15' 2"	13' 3"	11' 2"	14' 1"	12' 4"	10' 5"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 1"	10' 6"	8' 11"
4005250-68	12	50	36' 7"	29' 0"	25' 4"	22' 8"	19' 10"	16' 8"	20' 7"	18' 0"	15' 2"	19' 1"	16' 8"	14' 1"	18' 0"	15' 9"	13' 3"	17' 1"	14' 11"	12' 7"	16' 4"	14' 3"	12' 1"
4005250-68	16		33' 3"	26' 4"	23' 0"	20' 7"	18' 0"	15' 2"	18' 9"	16' 4"	13' 9"	17' 4"	15' 2"	12' 10"	16' 4"	14' 3"	12' 1"	15' 6"	13' 7"	11' 5"	14' 10"	13' 0"	10' 11"
4005250-68	24		29' 0"	23' 0"	20' 1"	18' 0"	15' 9"	13' 3"	16' 4"	14' 3"	12' 1"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"	13' 7"	11' 10"	10' 0"	13' 0"	11' 4"	9' 7"
4005250-97	12	50	40' 7"	32' 2"	28' 1"	25' 2"	21' 11"	18' 6"	22' 10"	19' 11"	16' 10"	21' 2"	18' 6"	15' 7"	19' 11"	17' 5"	14' 8"	18' 11"	16' 7"	14' 0"	18' 1"	15' 10"	13' 4"
4005250-97	16		36' 10"	29' 3"	25' 7"	22' 10"	19' 11"	16' 10"	20' 9"	18' 1"	15' 3"	19' 3"	16' 10"	14' 2"	18' 1"	15' 10"	13' 4"	17' 3"	15' 0"	12' 8"	16' 6"	14' 5"	12' 2"
4005250-97	24		32' 2"	25' 7"	22' 4"	19' 11"	17' 5"	14' 8"	18' 1"	15' 10"	13' 4"	16' 10"	14' 8"	12' 5"	15' 10"	13' 10"	11' 8"	15' 0"	13' 2"	11' 1"	14' 5"	12' 7"	10' 7"
4005300-33	12	33	29' 7"	23' 6"	20' 6"	17' 11" e	16' 0" e	13' 6" e	15' 6" e	14' 7" e	12' 3" e	13' 11" e	13' 6" e	11' 5" e	12' 8" e	12' 8" e	10' 9" e	11' 9" e	11' 9" e	10' 2" e	11' 0" e	11' 0" e	9' 9" e
4005300-33	16		26' 11"	21' 4"	18' 8"	15' 6" e	14' 7" e	12' 3" e	13' 5" e	13' 3" e	11' 2" e	12' 0" e	12' 0" e	10' 4" e	11' 0" e	11' 0" e	9' 9" e	10' 2" e	10' 2" e	9' 3" e	9' 6" e	9' 6" e	8' 10" e
4005300-33	24		22' 0"	18' 8"	16' 4"	12' 8" e	12' 8" e	10' 9" e	11' 0" e	11' 0" e	9' 9" e	9' 10" e	9' 10" e	9' 1" e	9' 0" e	9' 0" e	8' 6" e	8' 4" e	8' 4" e	8' 1" e	7' 9" e	7' 9" e	7' 9" e
4005300-54	12	50	34' 10"	27' 8"	24' 2"	21' 7"	18' 10"	15' 11"	19' 7"	17' 2"	14' 5"	18' 3"	15' 11"	13' 5"	17' 2"	15' 0"	12' 8"	16' 3"	14' 3"	12' 0"	15' 7"	13' 7"	11' 6"
4005300-54	16		31' 8"	25' 1"	21' 11"	19' 7"	17' 2"	14' 5"	17' 10"	15' 7"	13' 2"	16' 7"	14' 5"	12' 2"	15' 7"	13' 7"	11' 6"	14' 9"	12' 11"	10' 11"	14' 2"	12' 4"	10' 5"
4005300-54	24		27' 8"	21' 11"	19' 2"	17' 2"	15' 0"	12' 8"	15' 7"	13' 7"	11' 6"	14' 5"	12' 8"	10' 8"	13' 7"	11' 11"	10' 0"	12' 11"	11' 3"	9' 6"	12' 2"	10' 10"	9' 1"
4005300-68	12	50	38' 0"	30' 2"	26' 4"	23' 7"	20' 7"	17' 4"	21' 5"	18' 8"	15' 9"	19' 10"	17' 4"	14' 8"	18' 8"	16' 4"	13' 9"	17' 9"	15' 6"	13' 1"	17' 0"	14' 10"	12' 6"
4005300-68	16		34' 6"	27' 5"	23' 11"	21' 5"	18' 8"	15' 9"	19' 5"	17' 0"	14' 4"	18' 1"	15' 9"	13' 4"	17' 0"	14' 10"	12' 6"	16' 2"	14' 1"	11' 11"	15' 5"	13' 6"	11' 4"
4005300-68	24		30' 2"	23' 11"	20' 11"	18' 8"	16' 4"	13' 9"	17' 0"	14' 10"	12' 6"	15' 9"	13' 9"	11' 7"	14' 10"	13' 0"	10' 11"	14' 1"	12' 4"	10' 5"	13' 6"	11' 9"	9' 11"
4005300-97	12	50	42' 4"	33' 7"	29' 4"	26' 3"	22' 11"	19' 4"	23' 10"	20' 10"	17' 7"	22' 2"	19' 4"	16' 4"	20' 10"	18' 2"	15' 4"	19' 9"	17' 3"	14' 7"	18' 11"	16' 6"	13' 11"
4005300-97	16		38' 6"	30' 6"	26' 8"	23' 10"	20' 10"	17' 7"	21' 8"	18' 11"	16' 0"	20' 1"	17' 7"	14' 10"	18' 11"	16' 6"	13' 11"	18' 0"	15' 8"	13' 3"	17' 2"	15' 0"	12' 8"
4005300-97	24		33' 7"	26' 8"	23' 4"	20' 10"	18' 2"	15' 4"	18' 11"	16' 6"	13' 11"	17' 7"	15' 4"	12' 11"	16' 6"	14' 5"	12' 2"	15' 8"	13' 9"	11' 7"	15' 0"	13' 1"	11' 1"
5505162-33	12	33	33' 8"	26' 9"	23' 4"	19' 7" e	18' 3" e	15' 5" e	17' 0" e	16' 7" e	14' 0" e	15' 2" e	15' 2" e	13' 0" e	13' 10" e	13' 10" e	12' 3" e	12' 10" e	12' 10" e	11' 7" e	12' 0" e	12' 0" e	11' 1" e
5505162-33	16		29' 5"	24' 4"	21' 3"	17' 0" e	16' 7" e	14' 0" e	14' 8" e	14' 8" e	12' 8" e	13' 2" e	13' 2" e	11' 9" e	12' 0" e	12' 0" e	11' 1" e	11' 1" e	11' 1" e	10' 6" e	10' 5" e	10' 5" e	10' 1" e
5505162-33	24		24' 0"	21' 3"	18' 6"	13' 10" e	13' 10" e	12' 3" e	12' 0" e	12' 0" e	11' 1" e	10' 9" e	10' 9" e	10' 4" e	9' 10" e	9' 10" e	9' 8" e	9' 1" e	9' 1" e	9' 1" e	8' 6" e	8' 6" e	8' 6" e
5505162-54	12	50	39' 4"	31' 3"	27' 3"	24' 5"	21' 4"	18' 0"	22' 2"	19' 4"	16' 4"	20' 7"	18' 0"	15' 2"	19' 4"	16' 11"	14' 3"	18' 5"	16' 1"	13' 7"	17' 7"	15' 4"	13' 0"
5505162-54	16		35' 9"	28' 5"	24' 9"	22' 2"	19' 4"	16' 4"	20' 2"	17' 7"	14' 10"	18' 8"	16' 4"	13' 9"	17' 7"	15' 4"	13' 0"	16' 9"	14' 7"	12' 4"	16' 0"	14' 0"	11' 9"
5505162-54	24		31' 3"	24' 9"	21' 8"	19' 4"	16' 11"	14' 3"	17' 7"	15' 4"	13' 0"	16' 4"	14' 3"	12' 0"	15' 4"	13' 5"	11' 4"	14' 7"	12' 9"	10' 9"	14' 0"	12' 2"	10' 3"
5505162-68	12	50	42' 2"	33' 6"	29' 3"	26' 2"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"	20' 9"	18' 2"	15' 3"	19' 9"	17' 3"	14' 6"	18' 10"	16' 6"	13' 11"
5505162-68	16		38' 4"	30' 5"	26' 7"	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 11"	20' 0"	17' 6"	14' 9"	18' 10"	16' 6"	13' 11"	17' 11"	15' 8"	13' 2"	17' 2"	15' 0"	12' 7"
5505162-68	24		33' 6"	26' 7"	23' 3"	20' 9"	18' 2"	15' 3"	18' 10"	16' 6"	13' 11"	17' 6"	15' 3"	12' 11"	16' 6"	14' 5"	12' 2"	15' 8"	13' 8"	11' 6"	15' 0"	13' 1"	11' 0"
5505162-97	12	50	46' 9"	37' 1"	32' 5"	28' 11"	25' 3"	21' 4"	26' 4"	23' 0"	19' 5"	24' 5"	21' 4"	18' 0"	23' 0"	20' 1"	16' 11"	21' 10"	19' 1"	16' 1"	20' 11"	18' 3"	15' 5"
5505162-97	16		42' 5"	33' 8"	29' 5"	26' 4"	23' 0"	19' 5"	23' 11"	20' 11"	17' 7"	22' 2"	19' 5"	16' 4"	20' 11"	18' 3"	15' 5"	19' 10"	17' 4"	14' 7"	19' 0"	16' 7"	14' 0"
5505162-97	24		37' 1"	29' 5"	25' 8"	23' 0"	20' 1"	16' 11"	20' 11"	18' 3"	15' 5"	19' 5"	16' 11"	14' 3"	18' 3"	15' 11"	13' 5"	17' 4"	15' 2"	12' 9"	16' 7"	14' 6"	12' 3"
5505200-33	12	33	35' 4"	28' 0"	24' 6"	20' 10" e	19' 1" e	16' 1" e	18' 1" e	17' 4" e	14' 8" e	16' 2" e	16' 1" e	13' 7" e	14' 9" e	14' 9" e	12' 10" e	13' 8" e	13' 8" e	12' 2" e	12' 9" e	12' 9" e	11' 8" e
5505200-33	16		31' 4"	25' 5"	22' 3"	18' 1" e	17' 4" e	14' 8" e	15' 8" e	15' 8" e	13' 4" e	14' 0" e	14' 0" e	12' 4" e	12' 9" e	12' 9" e	11' 8" e	11' 10" e	11' 10" e	11' 1" e	11' 1" e	11' 1" e	10' 7" e
5505200-33	24		25' 7"	22' 3"	19' 5"	14' 9" e	14' 9" e	12' 10" e	12' 9" e	12' 9" e	11' 8" e	11' 5" e	10' 10" e	10' 5" e	10' 5" e	10' 2" e	9' 8" e	9' 8" e	9' 8" e	9' 0"			

CURTAIN WALL - LIMITING WALL HEIGHTS

Member	Spacing	Fy, ksi	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
600S200-33	12	33	37'9"	30'0"	26'2"	21'11"	20'6"	17'3"	18'11"	18'7"	15'8"	16'11"	16'11"	14'7"	15'6"	13'8"	14'4"	14'4"	13'0"	13'5"	13'5"	12'5"	
600S200-33	16		32'10"	27'3"	23'10"	18'11"	18'7"	15'8"	16'5"	16'5"	14'3"	14'8"	14'8"	13'3"	13'5"	12'5"	12'5"	12'5"	11'10"	11'7"	11'7"	11'4"	
600S200-33	24		26'10"	23'10"	20'10"	15'6"	15'6"	13'8"	13'5"	13'5"	12'5"	12'0"	12'0"	11'7"	10'11"	10'11"	10'10"	10'2"	10'2"	10'2"	9'6"	9'6"	9'6"
600S200-54	12	50	44'4"	35'2"	30'9"	27'6"	24'0"	20'3"	24'11"	21'10"	18'5"	23'2"	20'3"	17'1"	21'10"	19'1"	16'1"	20'9"	18'1"	15'3"	19'10"	17'4"	14'7"
600S200-54	16		40'3"	32'0"	27'11"	24'11"	21'10"	18'5"	22'8"	19'10"	16'8"	21'1"	18'5"	15'6"	19'10"	17'4"	14'7"	18'10"	16'5"	13'10"	18'0"	15'9"	13'3"
600S200-54	24		35'2"	27'11"	24'5"	21'10"	19'1"	16'1"	19'10"	17'4"	14'7"	18'5"	16'1"	13'7"	17'4"	15'1"	12'9"	16'2"	14'4"	12'1"	15'1"	13'9"	11'7"
600S200-68	12	50	47'7"	37'9"	33'0"	29'6"	25'9"	21'9"	26'9"	23'5"	19'9"	24'10"	21'9"	18'4"	23'5"	20'5"	17'3"	22'3"	19'5"	16'4"	21'3"	18'7"	15'8"
600S200-68	16		43'2"	34'4"	29'11"	26'9"	23'5"	19'9"	24'4"	21'3"	17'11"	22'7"	19'9"	16'8"	21'3"	18'7"	15'8"	20'2"	17'8"	14'11"	19'4"	16'10"	14'3"
600S200-68	24		37'9"	29'11"	26'2"	23'5"	20'5"	17'3"	21'3"	18'7"	15'8"	19'9"	17'3"	14'6"	18'7"	16'3"	13'8"	17'8"	15'5"	13'0"	16'10"	14'9"	12'5"
600S200-97	12	50	52'10"	41'11"	36'7"	32'9"	28'7"	24'1"	29'9"	26'0"	21'11"	27'7"	24'1"	20'4"	26'0"	22'8"	19'2"	24'8"	21'7"	18'2"	23'7"	20'7"	17'5"
600S200-97	16		48'0"	38'1"	33'3"	29'9"	26'0"	21'11"	27'0"	23'7"	19'11"	25'1"	21'11"	18'6"	23'7"	20'7"	17'5"	22'5"	19'7"	16'6"	21'5"	18'9"	15'10"
600S200-97	24		41'11"	33'3"	29'1"	26'0"	22'8"	19'2"	23'7"	20'7"	17'5"	21'11"	19'2"	16'2"	20'7"	18'0"	15'2"	19'7"	17'1"	14'5"	18'9"	16'4"	13'10"
600S200-118	12	50	55'10"	44'4"	38'9"	34'7"	30'3"	25'6"	31'5"	27'6"	23'2"	29'2"	25'6"	21'6"	27'6"	24'0"	20'3"	26'1"	22'10"	19'3"	25'0"	21'10"	18'5"
600S200-118	16		50'9"	40'3"	35'2"	31'5"	27'6"	23'2"	28'7"	25'0"	21'1"	26'6"	23'2"	19'7"	25'0"	21'10"	18'5"	23'9"	20'9"	17'6"	22'8"	19'10"	16'9"
600S200-118	24		44'4"	35'2"	30'9"	27'6"	24'0"	20'3"	25'0"	21'10"	18'5"	23'2"	20'3"	17'1"	21'10"	19'1"	16'1"	20'9"	18'1"	15'3"	19'10"	17'4"	14'7"
600S250-54	12	50	46'3"	36'8"	32'1"	28'8"	25'0"	21'1"	26'0"	22'9"	19'2"	24'2"	21'1"	17'10"	22'9"	19'10"	16'9"	21'9"	18'10"	15'11"	20'8"	18'1"	15'3"
600S250-54	16		42'0"	33'4"	29'1"	26'0"	22'9"	19'2"	23'8"	20'8"	17'5"	21'11"	19'2"	16'2"	20'8"	18'1"	15'3"	19'7"	17'2"	14'6"	18'9"	16'5"	13'10"
600S250-54	24		36'8"	29'1"	25'5"	22'9"	19'10"	16'9"	20'8"	18'1"	15'3"	19'2"	16'9"	14'2"	17'10"	15'9"	13'4"	16'6"	15'0"	12'8"	15'6"	14'4"	12'1"
600S250-68	12	50	49'10"	39'7"	34'7"	30'11"	27'0"	22'9"	28'1"	24'6"	20'8"	26'1"	22'9"	19'2"	24'6"	21'5"	18'1"	23'4"	20'4"	17'2"	22'3"	19'6"	16'5"
600S250-68	16		45'3"	35'11"	31'5"	28'1"	24'6"	20'8"	25'6"	22'3"	18'10"	23'8"	20'8"	17'5"	22'3"	19'6"	16'5"	21'2"	18'6"	15'7"	20'3"	17'8"	14'11"
600S250-68	24		39'7"	31'5"	27'5"	24'6"	21'5"	18'1"	22'3"	19'6"	16'5"	20'8"	18'1"	15'3"	19'6"	17'0"	14'4"	18'6"	16'2"	13'7"	17'8"	15'5"	13'0"
600S250-97	12	50	55'5"	44'0"	38'5"	34'4"	30'0"	25'4"	31'3"	27'3"	23'0"	29'0"	25'4"	21'4"	27'3"	23'10"	20'1"	25'11"	22'8"	19'1"	24'9"	21'8"	18'3"
600S250-97	16		50'4"	40'0"	34'11"	31'3"	27'3"	23'0"	28'4"	24'9"	20'11"	26'4"	23'0"	19'5"	24'9"	21'8"	18'3"	23'6"	20'7"	17'4"	22'6"	19'8"	16'7"
600S250-97	24		44'0"	34'11"	30'6"	27'3"	23'10"	20'1"	24'9"	21'8"	18'3"	23'0"	20'1"	16'11"	21'8"	18'11"	15'11"	20'7"	18'0"	15'2"	19'8"	17'2"	14'6"
600S250-118	12	50	58'8"	46'7"	40'8"	36'5"	31'9"	26'10"	33'1"	28'11"	24'4"	30'8"	26'10"	22'7"	28'11"	25'3"	21'3"	27'5"	24'0"	20'3"	26'3"	22'11"	19'4"
600S250-118	16		53'4"	42'4"	37'0"	33'1"	28'11"	24'4"	30'0"	26'3"	22'2"	27'11"	24'4"	20'7"	26'3"	22'11"	19'4"	24'11"	21'9"	18'4"	23'10"	20'10"	17'7"
600S250-118	24		46'7"	37'0"	32'4"	28'11"	25'3"	21'3"	26'3"	22'11"	19'4"	24'4"	21'3"	17'11"	22'11"	20'0"	16'11"	21'9"	19'0"	16'1"	20'10"	18'2"	15'4"
600S300-54	12	50	47'3"	37'6"	32'9"	29'3"	25'7"	21'7"	26'7"	23'3"	19'7"	24'8"	21'7"	18'2"	23'3"	20'3"	17'1"	22'1"	19'3"	16'3"	21'1"	18'5"	15'7"
600S300-54	16		42'11"	34'1"	29'9"	26'7"	23'3"	19'7"	24'2"	21'1"	17'10"	22'5"	19'7"	16'6"	21'1"	18'5"	15'7"	20'1"	17'6"	14'9"	19'2"	16'9"	14'2"
600S300-54	24		37'6"	29'9"	26'0"	23'3"	20'3"	17'1"	21'1"	18'5"	15'7"	19'7"	17'1"	14'5"	18'2"	16'1"	13'7"	16'10"	15'4"	12'11"	15'9"	14'8"	12'4"
600S300-68	12	50	51'7"	40'11"	35'9"	31'11"	27'11"	23'6"	29'0"	25'4"	21'5"	26'11"	23'6"	19'10"	25'4"	22'2"	18'8"	24'1"	21'0"	17'9"	23'0"	20'2"	17'0"
600S300-68	16		46'10"	37'2"	32'6"	29'0"	25'4"	21'5"	26'4"	23'0"	19'5"	24'6"	21'5"	18'0"	23'0"	20'2"	17'0"	21'11"	19'1"	16'1"	20'11"	18'3"	15'5"
600S300-68	24		40'11"	32'6"	28'4"	25'4"	22'2"	18'8"	23'0"	20'2"	17'0"	21'5"	18'8"	15'9"	20'2"	17'7"	14'10"	19'1"	16'8"	14'1"	18'3"	16'0"	13'6"
600S300-97	12	50	57'7"	45'8"	39'11"	35'8"	31'2"	26'4"	32'5"	28'4"	23'11"	30'1"	26'4"	22'2"	28'4"	24'9"	20'10"	26'11"	23'6"	19'10"	25'9"	22'6"	19'0"
600S300-97	16		52'4"	41'6"	36'3"	32'5"	28'4"	23'11"	29'6"	25'9"	21'8"	27'4"	23'11"	20'2"	25'9"	22'6"	19'0"	24'5"	21'4"	18'0"	23'5"	20'5"	17'3"
600S300-97	24		45'8"	36'3"	31'8"	28'4"	24'9"	20'10"	25'9"	22'6"	19'0"	23'11"	20'10"	17'7"	22'6"	19'8"	16'7"	21'4"	18'8"	15'9"	20'5"	17'10"	15'1"
600S300-118	12	50	61'2"	48'6"	42'5"	37'11"	33'1"	27'11"	34'5"	30'1"	25'4"	32'0"	27'11"	23'7"	30'1"	26'3"	22'2"	28'7"	24'11"	21'1"	27'4"	23'10"	20'2"
600S300-118	16		55'7"	44'1"	38'6"	34'5"	30'1"	25'4"	31'3"	27'4"	23'1"	29'0"	25'4"	21'5"	27'4"	23'10"	20'2"	25'11"	22'8"	19'1"	24'10"	21'8"	18'4"
600S300-118	24		48'6"	38'6"	33'8"	30'1"	26'3"	22'2"	27'4"	23'10"	20'2"	25'4"	22'2"	18'8"	23'10"	20'10"	17'7"	22'8"	19'10"	16'8"	21'8"	18'11"	16'0"
600S350-54	12	50	49'10"	39'7"	34'7"	30'11"	27'0"	22'9"	28'1"	24'6"	20'8"	26'1"	22'9"	19'2"	24'6"	21'5"	18'1"	23'3"	20'4"	17'2"	22'3"	19'6"	16'5"
600S350-54	16		45'3"	35'11"	31'5"	28'1"	24'6"	20'8"	25'6"	22'3"	18'9"	23'8"	20'8"	17'5"	22'3"	19'6"	16'5"	21'2"	18'6"	15'7"	20'3"	17'8"	14'11"
600S350-54	24		39'7"	31'5"	27'5"	24'6"	21'5"	18'1"	22'3"	19'6"	16'5"	20'8"	18'1"	15'3"	19'6"	17'0"	14'4"	18'6"	16'2"	13'7"	17'5"	15'5"	13'0"
600S350-68	12	50	54'6"	43'3"	37'9"	33'9"	29'6"	24'11"	30'8"	26'10"	22'7"	28'6"	24'11"	21'0"	26'10"	23'5"	19'9"	25'6"	22'3"	18'9"	24'4"	21'3"	17'11"
600S350-68	16		49'6"	39'3"	34'4"	30'8"	26'10"	22'7"	27'10"	24'4"	20'6"	25'11"	22'7"	19'1"	24'4"	21'3"	17'11"	23'2"	20'2"	17'1"	22'1"	19'	

CURTAIN WALL - LIMITING WALL HEIGHTS																							
Member	Spacing	Fy, ksi	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF		
			L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
800S162-118	12	50	67' 1"	53' 3"	46' 6"	41' 7"	36' 4"	30' 8"	37' 9"	33' 0"	27' 10"	35' 1"	30' 8"	25' 10"	33' 0"	28' 10"	24' 4"	31' 4"	27' 5"	23' 1"	30' 0"	26' 2"	22' 1"
800S162-118	16		60' 11"	48' 4"	42' 3"	37' 9"	33' 0"	27' 10"	34' 4"	30' 0"	25' 3"	31' 10"	27' 10"	23' 6"	30' 0"	26' 2"	22' 1"	28' 6"	24' 11"	21' 0"	27' 3"	23' 10"	20' 1"
800S162-118	24		53' 3"	42' 3"	36' 11"	33' 0"	28' 10"	24' 4"	30' 0"	26' 2"	22' 1"	27' 10"	24' 4"	20' 6"	26' 2"	22' 11"	19' 4"	24' 11"	21' 9"	18' 4"	23' 10"	20' 9"	17' 6"
800S200-33	12	33	44' 0"	37' 9"	33' 0"	25' 5" e	25' 5" e	21' 8" e	22' 0" e	19' 9" e	19' 8" e	19' 8" e	18' 4" e	18' 0" e	18' 0" e	17' 3" e	16' 8" e	16' 8" e	16' 4" e	15' 7" e	15' 7" e	15' 7" e	
800S200-33	16		38' 1"	34' 3"	29' 11"	22' 0" e	22' 0" e	19' 9" e	19' 1" e	19' 1" e	17' 11" e	17' 1" e	17' 1" e	16' 8" e	15' 7" e	15' 7" e	15' 7" e	14' 5" e	14' 5" e	14' 5" e	13' 6" e	13' 6" e	13' 6" e
800S200-33	24		31' 1"	29' 11"	26' 2"	18' 0" e	18' 0" e	17' 3" e	15' 7" e	15' 7" e	15' 7" e	13' 11" e	13' 11" e	13' 11" e	12' 8" e	12' 8" e	12' 8" e	11' 9" e	11' 9" e	11' 9" e	11' 0" e	11' 0" e	11' 0" e
800S200-54	12	50	55' 8"	44' 2"	38' 7"	34' 6"	30' 2"	25' 5"	31' 4"	27' 5"	23' 1"	29' 1"	25' 5"	21' 5"	27' 5"	23' 11"	20' 2"	26' 0"	22' 9"	19' 2"	24' 10"	21' 9"	18' 4"
800S200-54	16		50' 7"	40' 2"	35' 1"	31' 4" e	27' 5" e	23' 1" e	28' 6" e	24' 10" e	21' 0" e	26' 5" e	23' 1" e	19' 6" e	24' 10" e	21' 9" e	18' 4" e	23' 1" e	20' 8" e	17' 5" e	21' 7" e	19' 9" e	16' 8" e
800S200-54	24		44' 2"	35' 1"	30' 8"	27' 5" e	23' 11" e	20' 2" e	24' 10" e	21' 9" e	18' 4" e	22' 4" e	20' 2" e	17' 0" e	20' 5" e	19' 0" e	16' 0" e	18' 10" e	18' 0" e	15' 2" e	17' 8" e	17' 3" e	14' 7" e
800S200-68	12	50	59' 9"	47' 5"	41' 5"	37' 1"	32' 4"	27' 4"	33' 8"	29' 5"	24' 10"	31' 3"	27' 4"	23' 0"	29' 5"	25' 8"	21' 8"	27' 11"	24' 5"	20' 7"	26' 9"	23' 4"	19' 8"
800S200-68	16		54' 4"	43' 1"	37' 8"	33' 8"	29' 5"	24' 10"	30' 7"	26' 9"	22' 6"	28' 5"	24' 10"	20' 11"	26' 9"	23' 4"	19' 8"	25' 4"	22' 2"	18' 8"	24' 3"	21' 2"	17' 11"
800S200-68	24		47' 5"	37' 8"	32' 11"	29' 5"	25' 8"	21' 8"	26' 9"	23' 4"	19' 8"	24' 10"	21' 8"	18' 3"	23' 4"	20' 5"	17' 2"	22' 2"	19' 4"	16' 4"	21' 2"	18' 6"	15' 7"
800S200-97	12	50	66' 6"	52' 9"	46' 1"	41' 2"	36' 0"	30' 4"	37' 5"	32' 8"	27' 7"	34' 9"	30' 4"	25' 7"	32' 8"	28' 7"	24' 1"	31' 1"	27' 2"	22' 11"	29' 9"	25' 11"	21' 11"
800S200-97	16		60' 5"	47' 11"	41' 11"	37' 5"	32' 8"	27' 7"	34' 0"	29' 9"	25' 1"	31' 7"	27' 7"	23' 3"	29' 9"	25' 11"	21' 11"	28' 3"	24' 8"	20' 10"	27' 0"	23' 7"	19' 11"
800S200-97	24		52' 9"	41' 11"	36' 7"	32' 8"	28' 7"	24' 1"	29' 9"	25' 11"	21' 11"	27' 7"	24' 1"	20' 4"	25' 11"	22' 8"	19' 1"	24' 8"	21' 6"	18' 2"	23' 7"	20' 7"	17' 5"
800S200-118	12	50	70' 5"	55' 11"	48' 10"	43' 8"	38' 2"	32' 2"	39' 8"	34' 8"	29' 3"	36' 10"	32' 2"	27' 1"	34' 8"	30' 3"	25' 6"	32' 11"	28' 9"	24' 3"	31' 6"	27' 6"	23' 2"
800S200-118	16		64' 0"	50' 9"	44' 4"	39' 8"	34' 8"	29' 3"	36' 0"	31' 6"	26' 7"	33' 5"	29' 3"	24' 8"	31' 6"	27' 6"	23' 2"	29' 11"	26' 1"	22' 0"	28' 7"	25' 0"	21' 1"
800S200-118	24		55' 11"	44' 4"	38' 9"	34' 8"	30' 3"	25' 6"	31' 6"	27' 6"	23' 2"	29' 3"	25' 6"	21' 6"	27' 6"	24' 0"	20' 3"	26' 1"	22' 10"	19' 3"	25' 0"	21' 10"	18' 5"
800S250-54	12	50	57' 10"	45' 11"	40' 1"	35' 10"	31' 4"	26' 5"	32' 7"	28' 5"	24' 0"	30' 3"	26' 5"	22' 3"	28' 5"	24' 10"	21' 0"	27' 0"	23' 7"	19' 11"	25' 7"	22' 7"	19' 1"
800S250-54	16		52' 7"	41' 8"	36' 5"	32' 7" e	28' 5" e	24' 0" e	29' 7" e	25' 10" e	21' 10" e	27' 6" e	24' 0" e	20' 3" e	25' 7" e	22' 7" e	19' 1" e	23' 8" e	21' 5" e	18' 1" e	22' 1" e	20' 6" e	17' 4" e
800S250-54	24		45' 11"	36' 5"	31' 10"	28' 5" e	24' 10" e	21' 0" e	25' 7" e	22' 7" e	19' 1" e	22' 10" e	21' 0" e	17' 8" e	20' 10" e	19' 9" e	16' 8" e	19' 4" e	18' 9" e	15' 10" e	18' 1" e	17' 11" e	15' 1" e
800S250-68	12	50	62' 4"	49' 6"	43' 3"	38' 8"	33' 9"	28' 6"	35' 1"	30' 8"	25' 10"	32' 7"	28' 6"	24' 0"	30' 8"	26' 10"	22' 7"	29' 2"	25' 5"	21' 6"	27' 10"	24' 4"	20' 6"
800S250-68	16		56' 8"	44' 11"	39' 3"	35' 1"	30' 8"	25' 10"	31' 11"	27' 10"	23' 6"	29' 7"	25' 10"	21' 10"	27' 10"	24' 4"	20' 6"	26' 6"	23' 1"	19' 6"	25' 4"	22' 1"	18' 8"
800S250-68	24		49' 6"	39' 3"	34' 4"	30' 8"	26' 10"	22' 7"	27' 10"	24' 4"	20' 6"	25' 10"	22' 7"	19' 1"	24' 4"	21' 3"	17' 11"	22' 8"	20' 2"	17' 0"	21' 2"	19' 4"	16' 4"
800S250-97	12	50	69' 6"	55' 2"	48' 2"	43' 1"	37' 7"	31' 9"	39' 2"	34' 2"	28' 10"	36' 4"	31' 9"	26' 9"	34' 2"	29' 10"	25' 2"	32' 6"	28' 4"	23' 11"	31' 1"	27' 2"	22' 11"
800S250-97	16		63' 2"	50' 1"	43' 9"	39' 2"	34' 2"	28' 10"	35' 7"	31' 1"	26' 2"	33' 0"	28' 10"	24' 4"	31' 1"	27' 2"	22' 11"	29' 6"	25' 9"	21' 9"	28' 3"	24' 8"	20' 9"
800S250-97	24		55' 2"	43' 9"	38' 3"	34' 2"	29' 10"	25' 2"	31' 1"	27' 2"	22' 11"	28' 10"	25' 2"	21' 3"	27' 2"	23' 8"	20' 0"	25' 9"	22' 6"	19' 0"	24' 8"	21' 6"	18' 2"
800S250-118	12	50	73' 8"	58' 6"	51' 1"	45' 8"	39' 11"	33' 8"	41' 6"	36' 3"	30' 7"	38' 6"	33' 8"	28' 4"	36' 3"	31' 8"	26' 8"	34' 5"	30' 1"	25' 4"	32' 11"	28' 9"	24' 3"
800S250-118	16		66' 11"	53' 1"	46' 5"	41' 6"	36' 3"	30' 7"	37' 8"	32' 11"	27' 9"	35' 0"	30' 7"	25' 9"	32' 11"	28' 9"	24' 3"	31' 3"	27' 4"	23' 1"	29' 11"	26' 2"	22' 0"
800S250-118	24		58' 6"	46' 5"	40' 6"	36' 3"	31' 8"	26' 8"	32' 11"	28' 9"	24' 3"	30' 7"	26' 8"	22' 6"	28' 9"	25' 2"	21' 2"	27' 4"	23' 10"	20' 2"	26' 2"	22' 10"	19' 3"
800S300-54	12	50	59' 1"	46' 11"	41' 0"	36' 7"	32' 0"	27' 0"	33' 3"	29' 1"	24' 6"	30' 11"	27' 0"	22' 9"	29' 1"	25' 5"	21' 5"	27' 7"	24' 1"	20' 4"	25' 11"	23' 1"	19' 5"
800S300-54	16		53' 8"	42' 7"	37' 3"	33' 3" e	29' 1" e	24' 6" e	30' 3" e	26' 5" e	22' 3" e	28' 1" e	24' 6" e	20' 8" e	25' 11" e	23' 1" e	19' 5" e	24' 0" e	21' 11" e	18' 6" e	22' 5" e	20' 11" e	17' 8" e
800S300-54	24		46' 11"	37' 3"	32' 6"	29' 1" e	25' 5" e	21' 5" e	25' 11" e	23' 1" e	19' 5" e	23' 2" e	21' 5" e	18' 1" e	21' 2" e	20' 2" e	17' 0" e	19' 7" e	19' 2" e	16' 2" e	18' 4" e	18' 4" e	15' 5" e
800S300-68	12	50	64' 2"	50' 11"	44' 6"	39' 9"	34' 9"	29' 4"	36' 2"	31' 7"	26' 8"	33' 7"	29' 4"	24' 9"	31' 7"	27' 7"	23' 3"	30' 0"	26' 2"	22' 1"	28' 8"	25' 1"	21' 2"
800S300-68	16		58' 4"	46' 3"	40' 5"	36' 2"	31' 7"	26' 8"	32' 10"	28' 8"	24' 2"	30' 6"	26' 8"	22' 6"	28' 8"	25' 1"	21' 2"	27' 3"	23' 10"	20' 1"	26' 1"	22' 9"	19' 2"
800S300-68	24		50' 11"	40' 5"	35' 4"	31' 7"	27' 7"	23' 3"	28' 8"	25' 1"	21' 2"	26' 8"	23' 3"	19' 7"	24' 10"	21' 11"	18' 6"	23' 0"	20' 10"	17' 6"	21' 6"	19' 11"	16' 9"
800S300-97	12	50	71' 11"	57' 1"	49' 10"	44' 7"	38' 11"	32' 10"	40' 6"	35' 4"	29' 10"	37' 7"	32' 10"	27' 8"	35' 4"	30' 11"	26' 1"	33' 7"	29' 4"	24' 9"	32' 2"	28' 1"	23' 8"
800S300-97	16		65' 4"	51' 10"	45' 3"	40' 6"	35' 4"	29' 10"	36' 9"	32' 2"	27' 1"	34' 2"	29' 10"	25' 2"	32' 2"	28' 1"	23' 8"	30' 6"	26' 8"	22' 6"	29' 2"	25' 6"	21' 6"
800S300-97	24		57' 1"	45' 3"	39' 7"	35' 4"	30' 11"	26' 1"	32' 2"	28' 1"	23' 8"	29' 10"	26' 1"	22' 0"	28' 1"	24' 6"	20' 8"	26' 8"	23' 4"	19' 8"	25' 6"	22' 3"	18' 10"
800S300-118	12	50	76' 5"	60' 8"	53' 0"	47' 4"	41' 5"	34' 11"	43' 0"	37' 7"	31' 8"	39' 11"	34' 11"	29' 5"	37' 7"	32' 10"	27' 8"	35' 9"	31' 2"	26' 4"	34' 2"	29' 10"	25' 2"
800S300-118	16		69' 5"	55' 1"	48' 2"	43' 0"	37' 7"	31' 8"	39' 1"	34' 2"	28' 10"	36' 4"	31' 8"	26' 9"	34' 2"	29' 10"	25' 2"	32' 5"	28' 4"	23' 11"	31' 0"	27' 1"	22' 10"
800S300-118	24		60' 8"	48' 2"	42' 1"	37' 7"	32' 10"	27' 8"	34' 2"	29' 10"	25' 2"	31' 8"	27' 8"	23' 4"	29' 10"	26' 1"	22' 0"	28' 4"	24' 9"	20' 11"	27' 1"	23' 8"	20' 0"
800S350-54	12	50																					

WE'RE HANDS-ON
WHERE IT COUNTS.



CLEAN LINES.
A LIGHTWEIGHT DESIGN.
TOP-QUALITY MATERIALS.





AXIAL & LATERAL LOADS

NOTES:

1. Allowable axial loads listed in kips (1 kip = 1000 pounds).
2. Allowable axial loads determined in accordance with section C5 AISI S100-12, with section D4 used for treatment of punch-outs, and assuming that all axial loads pass through the geometric center of the section.
3. Listed lateral pressures and axial loads have not been modified for 1/3 stress increase based on wind/earthquake or multiple transient loads.
4. Allowable axial loads based on lateral and torsional bracing at a maximum spacing of 4 feet on center.
5. The 5 psf live load has not been reduced for deflection checks. For 15 psf or higher wind pressure, read the note below:

5.1 IBC 2015/ASCE 7-10:

Due to the change in the model building codes, design wind pressures determined using IBC 2012/ASCE 7-10 are strength level loads (LRFD) in comparison to those determined in earlier IBC codes which were service level loads (ASD). The load/span tables that follow are based on service level (ASD) wind loads. Therefore, to properly use the load/span tables in this catalog, multiply the IBC 2012/ASCE 7-10 design wind pressures by 0.6 (Reference section 2.4 ASCE 7-10) prior to entering the load/span tables.

5.2 Example:

ASCE 7-10 Calculated Design Wind Pressure = 25 psf (Strength level loads, LRFD)

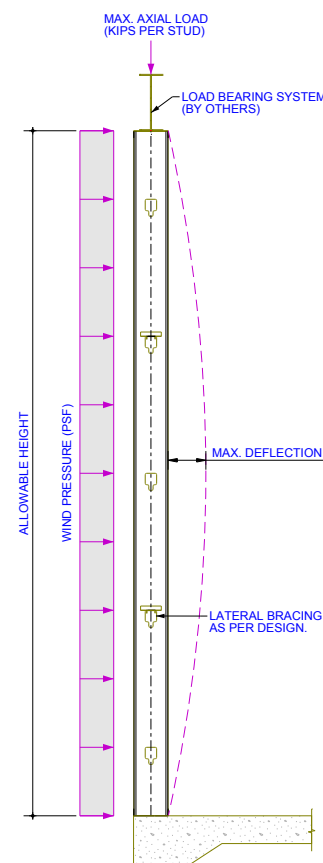
Convert to service level loads (ASD) = $25 \text{ psf} \times 0.6 = 15 \text{ psf}$

Use 15 psf as the Pressure Value used in this Table to determine the member span

5.3 Any Other Building Code:

The load/span tables that follow are based on service level (ASD) wind loads. If the wind load being used meets this criterion, it does not need to be modified prior to using the tables.

6. Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
7. End supports have not been checked for web crippling. Refer to web crippling capacity tables.
8. All tables are based on simple (single) span.
9. Cells marked with an " * " have $h/t > 200$, thus require bearing stiffeners. Cells are left blank when $h/t > 260$.
10. Cells marked with an a, b, c, d, e or f meets $L/720$, $L/600$, $L/480$, $L/360$, $L/240$, or $L/120$ respectively. Blank cells do not meet $L/120$.
11. Stud distortional buckling moment based on assumed $K = 0$
12. Moment of inertia for deflection is optimized based on the maximum moment at service loads for the listed spans; therefore span values may be greater than spans based on effective moment of inertia listed in section property tables.



COMBINED AXIAL & LATERAL LOAD TABLES

5 psf Lateral Load (Interior Walls)															
Wall Height	Spacing O.C.	350S162-(mils)					362S137-(mils)				362S162-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi		33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97
8	12	1.81 a	2.56 a	3.97 a	5.08 a	7.44 a	1.49 a	2.14 a	3.32 a	4.37 a	1.87 a	2.65 a	4.15 a	5.38 a	7.87 a
	16	1.74 a	2.48 a	3.9 a	5.01 a	7.36 a	1.42 a	2.07 a	3.26 a	4.3 a	1.8 a	2.57 a	4.08 a	5.31 a	7.79 a
	24	1.58 a	2.32 a	3.76 a	4.87 a	7.21 a	1.29 a	1.93 a	3.13 a	4.17 a	1.65 a	2.42 a	3.94 a	5.17 a	7.63 a
9	12	1.67 a	2.38 a	3.65 a	4.67 a	6.83 a	1.38 a	2.01 a	3.11 a	4.07 a	1.74 a	2.48 a	3.86 a	4.99 a	7.28 a
	16	1.57 a	2.28 a	3.56 a	4.58 a	6.74 a	1.3 a	1.92 a	3.02 a	3.99 a	1.64 a	2.38 a	3.77 a	4.9 a	7.18 a
	24	1.39 a	2.09 a	3.39 a	4.41 a	6.54 a	1.13 a	1.74 a	2.87 a	3.82 a	1.46 a	2.19 a	3.6 a	4.72 a	6.98 a
10	12	1.51 a	2.18 a	3.29 a	4.23 a	6.17 a	1.26 a	1.85 a	2.85 a	3.73 a	1.58 a	2.29 a	3.53 a	4.55 a	6.62 a
	16	1.4 a	2.07 a	3.19 a	4.12 a	6.05 a	1.16 a	1.74 a	2.75 a	3.63 a	1.47 a	2.17 a	3.42 a	4.44 a	6.5 a
	24	1.19 a	1.84 a	2.99 a	3.92 a	5.83 a	0.96 a	1.54 a	2.57 a	3.44 a	1.26 a	1.95 a	3.22 a	4.23 a	6.27 a
12	12	1.18 a	1.75 a	2.56 a	3.31 a	4.8 a	0.99 a	1.51 a	2.27 a	2.97 a	1.25 a	1.87 a	2.79 a	3.6 a	5.23 a
	16	1.04 b	1.61 a	2.44 a	3.18 a	4.66 a	0.86 b	1.37 a	2.15 a	2.85 a	1.11 a	1.72 a	2.66 a	3.47 a	5.08 a
	24	0.79 d	1.34 c	2.21 a	2.94 a	4.39 a	0.63 d	1.12 c	1.93 b	2.62 a	0.86 c	1.44 b	2.42 a	3.22 a	4.8 a
14	12	0.86 c	1.33 a	1.95 a	2.54 a	3.68 a	0.72 c	1.15 b	1.75 a	2.3 a	0.93 b	1.44 a	2.14 a	2.78 a	4.03 a
	16	0.71 d	1.17 c	1.82 b	2.4 a	3.53 a	0.59 d	1 c	1.62 b	2.16 a	0.78 d	1.28 b	2 a	2.64 a	3.87 a
	24	0.46 e	0.89 d	1.58 d	2.16 c	3.25 a	0.34 e	0.73 e	1.39 d	1.92 c	0.52 e	0.99 d	1.75 c	2.38 b	3.58 a
16	12	0.59 d	0.96 c	1.48 b	1.95 a	2.84 a	0.49 d	0.83 d	1.33 c	1.76 b	0.65 d	1.06 c	1.63 b	2.14 a	3.12 a
	16	0.45 e	0.8 d	1.35 d	1.81 c	2.69 a	0.36 e	0.68 e	1.2 d	1.63 c	0.51 e	0.9 d	1.49 c	2 b	2.96 a
	24	0.21 f	0.54 e	1.12 e	1.57 d	2.41 c	0.12 f	0.42 f	0.97 e	1.38 e	0.25 f	0.61 e	1.25 e	1.74 d	2.67 c

5 psf Lateral Load (Interior Walls)																	
Wall Height	Spacing O.C.	362S200-(mils)						400S137-(mils)				400S162-(mils)					
		33 ksi			50 ksi			33 ksi		50 ksi		33 ksi		50 ksi			
		33	43	54	68	97	33	43	54	68	33	43	54	68	97		
8	12	2.25 a	3.28 a	5.18 a	6.68 a	9.54 a	1.61 a	2.31 a	3.67 a	4.98 a	2.03 a	2.87 a	4.62 a	6.18 a	9.08 a		
	16	2.17 a	3.2 a	5.1 a	6.6 a	9.46 a	1.55 a	2.25 a	3.61 a	4.91 a	1.96 a	2.8 a	4.55 a	6.11 a	9.01 a		
	24	2.01 a	3.03 a	4.94 a	6.45 a	9.3 a	1.42 a	2.12 a	3.49 a	4.79 a	1.82 a	2.65 a	4.42 a	5.97 a	8.86 a		
9	12	2.1 a	3.07 a	4.79 a	6.17 a	8.81 a	1.52 a	2.2 a	3.49 a	4.79 a	1.91 a	2.72 a	4.37 a	5.85 a	8.56 a		
	16	2 a	2.96 a	4.69 a	6.07 a	8.71 a	1.44 a	2.12 a	3.42 a	4.7 a	1.82 a	2.63 a	4.28 a	5.76 a	8.46 a		
	24	1.8 a	2.76 a	4.49 a	5.88 a	8.51 a	1.28 a	1.95 a	3.26 a	4.54 a	1.65 a	2.45 a	4.11 a	5.59 a	8.27 a		
10	12	1.93 a	2.84 a	4.37 a	5.61 a	8.02 a	1.41 a	2.07 a	3.28 a	4.49 a	1.77 a	2.56 a	4.07 a	5.47 a	7.95 a		
	16	1.81 a	2.71 a	4.25 a	5.49 a	7.9 a	1.31 a	1.97 a	3.19 a	4.38 a	1.67 a	2.45 a	3.97 a	5.36 a	7.83 a		
	24	1.57 a	2.47 a	4.01 a	5.27 a	7.66 a	1.12 a	1.77 a	3 a	4.18 a	1.46 a	2.23 a	3.77 a	5.14 a	7.6 a		
12	12	1.56 a	2.32 a	3.45 a	4.44 a	6.36 a	1.16 a	1.76 a	2.77 a	3.75 a	1.46 a	2.17 a	3.41 a	4.54 a	6.58 a		
	16	1.4 a	2.16 a	3.3 a	4.3 a	6.21 a	1.03 a	1.62 a	2.64 a	3.61 a	1.32 a	2.02 a	3.27 a	4.39 a	6.42 a		
	24	1.11 c	1.86 a	3.03 a	4.03 a	5.92 a	0.79 c	1.36 b	2.4 a	3.35 a	1.06 b	1.74 a	3.01 a	4.12 a	6.11 a		
14	12	1.18 a	1.81 a	2.64 a	3.43 a	4.94 a	0.9 b	1.41 a	2.22 a	2.96 a	1.14 a	1.75 a	2.71 a	3.57 a	5.17 a		
	16	1.01 c	1.63 b	2.48 a	3.28 a	4.77 a	0.75 c	1.25 b	2.08 a	2.8 a	0.98 c	1.58 a	2.55 a	3.41 a	4.99 a		
	24	0.7 d	1.31 d	2.19 c	2.99 a	4.46 a	0.49 e	0.96 d	1.81 c	2.52 b	0.7 d	1.26 c	2.27 b	3.11 a	4.66 a		
16	12	0.84 c	1.36 b	2.01 a	2.66 a	3.85 a	0.65 d	1.08 c	1.74 a	2.3 a	0.84 c	1.35 b	2.12 a	2.78 a	4.04 a		
	16	0.67 d	1.18 c	1.86 c	2.5 a	3.68 a	0.5 e	0.91 d	1.59 c	2.14 b	0.68 d	1.17 c	1.96 b	2.61 a	3.85 a		
	24	0.38 e	0.86 e	1.58 d	2.21 c	3.37 b	0.23 f	0.61 e	1.32 d	1.86 d	0.39 e	0.85 e	1.67 d	2.31 c	3.52 b		

5 psf Lateral Load (Interior Walls)															
Wall Height	Spacing O.C.	400S200-(mils)					550S162-(mils)					600S137-(mils)			
		33 ksi			50 ksi		33 ksi		50 ksi			33 ksi		50 ksi	
		33	43	54	68	97	33	43	54	68	97	33	43	54	68
8	12	2.42 a	3.55 a	5.77 a	7.63 a	11.03 a	2.39 a	3.38 a	5.63 a	7.46 a	11.33 a	1.77 a	2.51 a	3.81 a	5.05 a
	16	2.34 a	3.48 a	5.7 a	7.56 a	10.95 a	2.34 a	3.33 a	5.58 a	7.41 a	11.28 a	1.73 a	2.47 a	3.78 a	5.02 a
	24	2.19 a	3.32 a	5.54 a	7.41 a	10.8 a	2.24 a	3.23 a	5.49 a	7.32 a	11.2 a	1.65 a	2.39 a	3.72 a	4.96 a
9	12	2.28 a	3.37 a	5.43 a	7.19 a	10.36 a	2.32 a	3.31 a	5.55 a	7.41 a	11.28 a	1.74 a	2.47 a	3.78 a	5.02 a
	16	2.19 a	3.27 a	5.33 a	7.1 a	10.26 a	2.26 a	3.24 a	5.49 a	7.36 a	11.23 a	1.69 a	2.43 a	3.74 a	4.98 a
	24	2 a	3.08 a	5.14 a	6.91 a	10.06 a	2.13 a	3.12 a	5.38 a	7.24 a	11.11 a	1.59 a	2.33 a	3.66 a	4.9 a
10	12	2.13 a	3.16 a	5.04 a	6.7 a	9.61 a	2.25 a	3.22 a	5.41 a	7.35 a	11.23 a	1.7 a	2.44 a	3.75 a	4.99 a
	16	2.01 a	3.04 a	4.92 a	6.58 a	9.48 a	2.16 a	3.14 a	5.34 a	7.27 a	11.15 a	1.63 a	2.37 a	3.7 a	4.94 a
	24	1.79 a	2.81 a	4.69 a	6.35 a	9.24 a	2 a	2.99 a	5.19 a	7.12 a	11 a	1.51 a	2.25 a	3.59 a	4.84 a
12	12	1.79 a	2.69 a	4.19 a	5.57 a	7.97 a	2.05 a	3 a	5.04 a	6.87 a	11.04 a	1.6 a	2.34 a	3.67 a	4.91 a
	16	1.63 a	2.53 a	4.03 a	5.41 a	7.8 a	1.93 a	2.89 a	4.93 a	6.76 a	10.91 a	1.51 a	2.25 a	3.59 a	4.83 a
	24	1.35 a	2.22 a	3.74 a	5.11 a	7.48 a	1.71 a	2.68 a	4.71 a	6.54 a	10.66 a	1.33 a	2.07 a	3.43 a	4.67 a
14	12	1.43 a	2.19 a	3.32 a	4.39 a	6.3 a	1.81 a	2.72 a	4.54 a	6.23 a	10 a	1.48 a	2.22 a	3.55 a	4.79 a
	16	1.25 b	2 a	3.14 a	4.21 a	6.12 a	1.66 a	2.57 a	4.39 a	6.07 a	9.83 a	1.36 a	2.09 a	3.44 a	4.67 a
	24	0.92 d	1.65 b	2.82 a	3.88 a	5.76 a	1.37 a	2.29 a	4.11 a	5.78 a	9.49 a	1.11 a	1.85 a	3.21 a	4.45 a
16	12	1.07 b	1.71 a	2.6 a	3.42 a	4.95 a	1.53 a	2.39 a	3.95 a	5.45 a	8.76 a	1.34 a	2.07 a	3.4 a	4.63 a
	16	0.89 d	1.51 b	2.41 a	3.24 a	4.76 a	1.35 a	2.2 a	3.77 a	5.26 a	8.54 a	1.18 a	1.9 a	3.24 a	4.47 a
	24	0.56 e	1.16 d	2.09 c	2.91 b	4.4 a	1.02 c	1.87 a	3.43 a	4.91 a	8.12 a	0.87 c	1.59 a	2.95 a	4.16 a

5 psf Lateral Load (Interior Walls)																	
Wall Height	Spacing O.C.	600S162-(mils)						600S200-(mils)						800S137-(mils)			
		33 ksi			50 ksi			33 ksi			50 ksi			33 ksi		50 ksi	
		33	43	54	68	97	33	43	54	68	97	33	43	54	68		
8	12	2.42 a	3.39 a	5.61 a	7.45 a	11.4 a	2.86 a	4.31 a	7.46 a	9.97 a	15.65 a	1.71 a*	2.43 a	3.57 a	4.75 a		
	16	2.37 a	3.35 a	5.57 a	7.41 a	11.36 a	2.81 a	4.26 a	7.41 a	9.92 a	15.6 a	1.68 a*	2.4 a	3.55 a	4.73 a		
	24	2.28 a	3.27 a	5.49 a	7.33 a	11.29 a	2.72 a	4.16 a	7.31 a	9.83 a	15.51 a	1.63 a*	2.35 a	3.5 a	4.68 a		
9	12	2.38 a	3.36 a	5.57 a	7.41 a	11.36 a	2.8 a	4.23 a	7.31 a	9.79 a	15.39 a	1.69 a*	2.4 a	3.55 a	4.73 a		
	16	2.32 a	3.3 a	5.52 a	7.36 a	11.31 a	2.74 a	4.16 a	7.25 a	9.73 a	15.33 a	1.65 a*	2.37 a	3.52 a	4.7 a		
	24	2.2 a	3.19 a	5.42 a	7.26 a	11.22 a	2.62 a	4.03 a	7.12 a	9.61 a	15.2 a	1.58 a*	2.3 a	3.47 a	4.65 a		
10	12	2.33 a	3.31 a	5.53 a	7.37 a	11.32 a	2.73 a	4.13 a	7.14 a	9.58 a	15.07 a	1.66 a*	2.38 a	3.53 a	4.71 a		
	16	2.25 a	3.24 a	5.46 a	7.3 a	11.26 a	2.65 a	4.05 a	7.05 a	9.5 a	14.99 a	1.62 a*	2.34 a	3.49 a	4.68 a		
	24	2.1 a	3.11 a	5.33 a	7.17 a	11.13 a	2.5 a	3.88 a	6.89 a	9.34 a	14.83 a	1.53 a*	2.26 a	3.43 a	4.61 a		
12	12	2.17 a	3.15 a	5.35 a	7.25 a	11.2 a	2.55 a	3.88 a	6.67 a	9 a	14.21 a	1.6 a*	2.32 a	3.48 a	4.66 a		
	16	2.06 a	3.05 a	5.25 a	7.15 a	11.1 a	2.44 a	3.76 a	6.55 a	8.89 a	14.09 a	1.54 a*	2.26 a	3.43 a	4.61 a		
	24	1.85 a	2.85 a	5.05 a	6.95 a	10.89 a	2.22 a	3.52 a	6.31 a	8.66 a	13.85 a	1.41 a*	2.14 a	3.33 a	4.52 a		
14	12	1.95 a	2.91 a	4.93 a	6.77 a	10.96 a	2.32 a	3.56 a	6.07 a	8.26 a	13.08 a	1.53 a*	2.25 a	3.42 a	4.6 a		
	16	1.81 a	2.78 a	4.8 a	6.63 a	10.8 a	2.17 a	3.4 a	5.91 a	8.1 a	12.91 a	1.44 a*	2.16 a	3.35 a	4.53 a		
	24	1.54 a	2.51 a	4.53 a	6.35 a	10.49 a	1.89 a	3.09 a	5.59 a	7.79 a	12.58 a	1.27 a*	2 a	3.21 a	4.4 a		
16	12	1.71 a	2.62 a	4.41 a	6.1 a	9.89 a	2.05 a	3.18 a	5.38 a	7.38 a	11.74 a	1.44 a*	2.16 a	3.34 a	4.53 a		
	16	1.53 a	2.45 a	4.24 a	5.91 a	9.68 a	1.87 a	2.98 a	5.18 a	7.17 a	11.52 a	1.32 a*	2.05 a	3.25 a	4.44 a		
	24	1.2 b	2.12 a	3.91 a	5.57 a	9.28 a	1.52 a	2.61 a	4.79 a	6.79 a	11.09 a	1.1 a*	1.83 a	3.06 a	4.26 a		

5 psf Lateral Load (Interior Walls)												
Wall Height	Spacing O.C.	800S162-(mils)					800S200-(mils)					
		33 ksi		50 ksi			33 ksi		50 ksi			
		33	43	54	68	97	33	43	54	68	97	
8	12	2.39 a*	3.35 a	5.43 a	7.25 a	11.26 a	2.97 a*	4.47 a	7.74 a	10.29 a	15.98 a	
	16	2.36 a*	3.32 a	5.4 a	7.22 a	11.24 a	2.93 a*	4.44 a	7.71 a	10.25 a	15.95 a	
	24	2.29 a*	3.26 a	5.35 a	7.16 a	11.18 a	2.86 a*	4.36 a	7.64 a	10.19 a	15.89 a	
9	12	2.37 a*	3.33 a	5.41 a	7.22 a	11.24 a	2.94 a*	4.44 a	7.71 a	10.26 a	15.95 a	
	16	2.32 a*	3.29 a	5.37 a	7.19 a	11.21 a	2.89 a*	4.39 a	7.67 a	10.21 a	15.91 a	
	24	2.24 a*	3.21 a	5.3 a	7.12 a	11.14 a	2.8 a*	4.3 a	7.57 a	10.13 a	15.83 a	
10	12	2.33 a*	3.3 a	5.38 a	7.2 a	11.21 a	2.9 a*	4.41 a	7.68 a	10.22 a	15.92 a	
	16	2.28 a*	3.25 a	5.34 a	7.15 a	11.17 a	2.85 a*	4.35 a	7.62 a	10.17 a	15.87 a	
	24	2.18 a*	3.15 a	5.24 a	7.06 a	11.08 a	2.73 a*	4.23 a	7.5 a	10.06 a	15.77 a	
12	12	2.26 a*	3.22 a	5.31 a	7.13 a	11.15 a	2.82 a*	4.32 a	7.59 a	10.14 a	15.84 a	
	16	2.18 a*	3.15 a	5.24 a	7.06 a	11.08 a	2.74 a*	4.23 a	7.5 a	10.06 a	15.76 a	
	24	2.03 a*	3 a	5.11 a	6.93 a	10.95 a	2.57 a*	4.06 a	7.32 a	9.9 a	15.61 a	
14	12	2.17 a*	3.13 a	5.22 a	7.04 a	11.06 a	2.69 a*	4.16 a	7.36 a	9.96 a	15.73 a	
	16	2.06 a*	3.03 a	5.13 a	6.95 a	10.96 a	2.58 a*	4.04 a	7.24 a	9.84 a	15.61 a	
	24	1.85 a*	2.83 a	4.94 a	6.76 a	10.77 a	2.35 a*	3.8 a	6.99 a	9.61 a	15.38 a	
16	12	2.05 a*	3.02 a	5.11 a	6.93 a	10.94 a	2.52 a*	3.93 a	6.95 a	9.46 a	15.15 a	
	16	1.92 a*	2.89 a	4.98 a	6.8 a	10.81 a	2.37 a*	3.77 a	6.78 a	9.3 a	15 a	
	24	1.64 a*	2.62 a	4.72 a	6.54 a	10.54 a	2.09 a*	3.46 a	6.46 a	9 a	14.68 a	

15 PSF LATERAL LOAD															
WALL HEIGHT	SPACING O.C.	350S162-(MILS)					362S137-(MILS)				362S162-(MILS)				
		33 KSI		50 KSI			33 KSI		50 KSI		33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97
8	12	1.37 a	2.1 a	3.55 a	4.66 a	6.98 a	1.09 a	1.72 a	2.95 a	3.98 a	1.44 a	2.2 a	3.74 a	4.96 a	7.41 a
	16	1.16 a	1.89 a	3.36 a	4.46 a	6.76 a	0.91 a	1.53 a	2.77 a	3.79 a	1.23 a	1.99 a	3.55 a	4.76 a	7.19 a
	24	0.78 a	1.49 a	2.99 a	4.08 a	6.34 a	0.56 b	1.16 a	2.43 a	3.44 a	0.85 a	1.59 a	3.17 a	4.38 a	6.76 a
9	12	1.13 a	1.82 a	3.14 a	4.16 a	6.27 a	0.9 a	1.49 a	2.64 a	3.59 a	1.21 a	1.93 a	3.35 a	4.47 a	6.7 a
	16	0.9 a	1.57 a	2.91 a	3.92 a	6 a	0.68 a	1.26 a	2.43 a	3.37 a	0.97 a	1.67 a	3.12 a	4.23 a	6.43 a
	24	0.46 c	1.11 b	2.48 a	3.48 a	5.5 a	0.28 c	0.83 b	2.03 a	2.94 a	0.53 c	1.21 a	2.68 a	3.77 a	5.92 a
10	12	0.9 a	1.53 a	2.71 a	3.63 a	5.51 a	0.7 b	1.25 a	2.31 a	3.16 a	0.97 a	1.64 a	2.93 a	3.94 a	5.95 a
	16	0.64 c	1.25 a	2.45 a	3.37 a	5.21 a	0.46 c	0.99 b	2.07 a	2.91 a	0.7 b	1.36 a	2.67 a	3.66 a	5.64 a
	24	0.17 d	0.74 c	1.99 b	2.88 a	4.65 a	0.02 e	0.51 d	1.62 c	2.44 b	0.23 d	0.84 c	2.18 b	3.15 a	5.06 a
12	12	0.47 d	0.98 c	1.9 b	2.62 a	4.03 a	0.33 d	0.78 c	1.63 b	2.3 a	0.53 d	1.08 b	2.1 a	2.88 a	4.43 a
	16	0.18 e	0.67 d	1.62 c	2.33 b	3.7 a	0.06 e	0.48 d	1.36 c	2.02 b	0.24 e	0.76 d	1.8 c	2.58 b	4.08 a
	24		0.13 e	1.13 e	1.81 d	3.11 c			0.89 e	1.51 d		0.2 e	1.29 d	2.03 d	3.46 b
14	12	0.13 e	0.53 e	1.27 d	1.83 c	2.89 a	0.03 e	0.38 e	1.08 d	1.6 c	0.18 e	0.61 d	1.42 d	2.03 c	3.19 a
	16		0.22 e	1 e	1.54 d	2.56 c		0.08 e	0.82 e	1.31 d		0.29 e	1.13 e	1.73 d	2.85 c
	24			0.53 f	1.04 e	1.99 d			0.35 f	0.82 e			0.64 f	1.2 e	2.24 d
16	12		0.2 f	0.82 e	1.25 d	2.06 c		0.09 f	0.68 e	1.07 e		0.26 e	0.93 e	1.41 d	2.29 c
	16			0.57 f	0.98 e	1.75 d			0.42 f	0.8 e			0.66 f	1.12 e	1.96 d
	24			0.13 f	0.51 f	1.21 e				0.34 f			0.19 f	0.62 f	1.39 e

WALL HEIGHT	SPACING O.C.	15 PSF LATERAL LOAD														
		362S200-(MILS)					400S137-(MILS)				400S162-(MILS)					
		33 KSI		50 KSI			33 KSI		50 KSI		33 KSI		50 KSI			
33	43	54	68	97	33	43	54	68	33	43	54	68	97			
8	12	1.77 a	2.79 a	4.71 a	6.22 a	9.07 a	1.24 a	1.92 a	3.32 a	4.6 a	1.62 a	2.45 a	4.22 a	5.77 a	8.64 a	
	16	1.55 a	2.56 a	4.49 a	6 a	8.84 a	1.06 a	1.74 a	3.14 a	4.42 a	1.42 a	2.25 a	4.03 a	5.57 a	8.42 a	
	24	1.13 a	2.13 a	4.06 a	5.58 a	8.4 a	0.72 a	1.38 a	2.81 a	4.06 a	1.05 a	1.86 a	3.67 a	5.18 a	7.99 a	
9	12	1.51 a	2.47 a	4.21 a	5.6 a	8.22 a	1.05 a	1.71 a	3.04 a	4.3 a	1.4 a	2.2 a	3.87 a	5.33 a	7.99 a	
	16	1.25 a	2.19 a	3.94 a	5.34 a	7.94 a	0.84 a	1.49 a	2.83 a	4.07 a	1.17 a	1.95 a	3.64 a	5.08 a	7.71 a	
	24	0.76 b	1.68 a	3.44 a	4.84 a	7.41 a	0.44 b	1.06 a	2.43 a	3.63 a	0.73 b	1.49 a	3.2 a	4.6 a	7.19 a	
10	12	1.25 a	2.13 a	3.69 a	4.95 a	7.32 a	0.86 a	1.49 a	2.74 a	3.89 a	1.17 a	1.93 a	3.48 a	4.83 a	7.26 a	
	16	0.95 a	1.82 a	3.38 a	4.64 a	7 a	0.62 b	1.22 a	2.49 a	3.62 a	0.9 a	1.64 a	3.21 a	4.54 a	6.93 a	
	24	0.42 c	1.25 b	2.83 a	4.09 a	6.4 a	0.17 d	0.74 c	2.03 b	3.11 a	0.41 c	1.12 b	2.7 a	3.99 a	6.33 a	
12	12	0.74 c	1.46 a	2.66 a	3.66 a	5.52 a	0.48 c	1.01 b	2.08 a	2.99 a	0.72 b	1.37 a	2.65 a	3.73 a	5.69 a	
	16	0.41 d	1.11 c	2.32 b	3.32 a	5.16 a	0.19 d	0.7 c	1.78 b	2.67 a	0.41 d	1.03 c	2.33 b	3.38 a	5.3 a	
	24		0.49 d	1.73 d	2.72 c	4.49 a		0.14 e	1.26 d	2.09 c		0.43 d	1.75 d	2.76 c	4.6 a	
14	12	0.32 e	0.9 d	1.82 c	2.61 b	4.05 a	0.15 e	0.58 d	1.46 c	2.15 b	0.33 d	0.86 c	1.89 c	2.7 a	4.21 a	
	16		0.54 e	1.49 d	2.28 c	3.68 b		0.25 e	1.15 d	1.82 d	0.01 e	0.5 d	1.56 d	2.35 c	3.81 a	
	24			0.92 e	1.69 e	3.03 d			0.62 e	1.24 e			0.98 e	1.73 d	3.11 c	
16	12	0.01 f	0.46 e	1.22 d	1.85 d	2.97 b		0.23 e	0.97 e	1.49 d	0.03 e	0.44 e	1.3 d	1.92 c	3.08 b	
	16		0.12 f	0.91 e	1.53 e	2.61 d			0.67 e	1.17 e		0.09 e	0.97 e	1.58 d	2.7 c	
	24			0.38 f	0.98 f	1.99 e			0.16 f	0.62 f			0.42 f	0.98 e	2.03 e	

15 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	400S200-(MILS)					550S162-(MILS)					600S137-(MILS)				
		33 KSI		50 KSI			33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.97 a	3.1 a	5.32 a	7.19 a	10.57 a	2.08 a	3.09 a	5.36 a	7.19 a	11.07 a	1.54 a	2.28 a	3.62 a	4.87 a	7.4 a
	16	1.76 a	2.88 a	5.1 a	6.97 a	10.34 a	1.93 a	2.95 a	5.22 a	7.06 a	10.94 a	1.42 a	2.17 a	3.53 a	4.77 a	7.32 a
	24	1.35 a	2.46 a	4.68 a	6.55 a	9.9 a	1.64 a	2.68 a	4.96 a	6.81 a	10.68 a	1.19 a	1.95 a	3.34 a	4.59 a	7.16 a
9	12	1.73 a	2.8 a	4.86 a	6.63 a	9.77 a	1.94 a	2.94 a	5.2 a	7.07 a	10.94 a	1.44 a	2.18 a	3.54 a	4.78 a	7.33 a
	16	1.47 a	2.53 a	4.59 a	6.36 a	9.49 a	1.75 a	2.77 a	5.03 a	6.9 a	10.77 a	1.29 a	2.04 a	3.41 a	4.66 a	7.22 a
	24	0.99 a	2.03 a	4.09 a	5.84 a	8.94 a	1.38 a	2.42 a	4.69 a	6.56 a	10.43 a	1.01 a	1.76 a	3.17 a	4.42 a	7.02 a
10	12	1.47 a	2.48 a	4.36 a	6.01 a	8.89 a	1.77 a	2.77 a	4.97 a	6.9 a	10.78 a	1.33 a	2.07 a	3.44 a	4.68 a	7.24 a
	16	1.18 a	2.17 a	4.05 a	5.69 a	8.55 a	1.54 a	2.56 a	4.76 a	6.69 a	10.56 a	1.15 a	1.9 a	3.29 a	4.53 a	7.11 a
	24	0.64 b	1.59 a	3.47 a	5.1 a	7.92 a	1.1 a	2.14 a	4.34 a	6.26 a	10.12 a	0.8 a	1.55 a	2.98 a	4.23 a	6.85 a
12	12	0.96 b	1.81 a	3.33 a	4.69 a	7.04 a	1.39 a	2.36 a	4.4 a	6.22 a	10.3 a	1.07 a	1.81 a	3.2 a	4.44 a	7.02 a
	16	0.61 c	1.44 b	2.96 a	4.31 a	6.63 a	1.08 a	2.07 a	4.1 a	5.91 a	9.96 a	0.82 a	1.56 a	2.97 a	4.21 a	6.82 a
	24		0.78 d	2.31 c	3.62 b	5.88 a	0.52 b	1.51 a	3.54 a	5.32 a	9.29 a	0.35 b	1.08 a	2.54 a	3.78 a	6.43 a
14	12		0.5 d	1.21 c	2.39 b	3.44 a	0.97 a	1.9 a	3.71 a	5.36 a	9.01 a	0.78 a	1.5 a	2.9 a	4.12 a	6.72 a
	16		0.14 e	0.81 d	2.02 c	3.05 b	0.61 c	1.53 a	3.34 a	4.97 a	8.55 a	0.46 b	1.17 a	2.59 a	3.81 a	6.43 a
	24			0.13 e	1.36 e	2.36 d	0.86 c		2.66 b	4.24 a	7.72 a		0.57 c	2.02 b	3.23 a	5.88 a
16	12		0.14 e	0.71 d	1.67 d	2.48 c	0.58 c	1.41 b	2.98 a	4.42 a	7.55 a	0.46 c	1.16 a	2.53 a	3.73 a	6.32 a
	16			0.32 e	1.3 e	2.1 d	0.18 d	1.01 c	2.57 b	3.97 a	7.03 a	0.09 d	0.76 c	2.15 b	3.33 a	5.94 a
	24				0.68 f	1.45 e	2.79 d	0.28 e	1.84 d	3.18 c	6.11 b		0.05 d	1.47 d	2.61 c	5.22 a

15 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	600S162-(MILS)					600S200-(MILS)					800S137-(MILS)				
		33 KSI		50 KSI			33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	2.14 a	3.14 a	5.37 a	7.22 a	11.18 a	2.57 a	4.01 a	7.16 a	9.69 a	15.37 a	1.55 a*	2.27 a	3.44 a	4.62 a	7.12 a
	16	2 a	3.02 a	5.25 a	7.1 a	11.06 a	2.43 a	3.86 a	7.01 a	9.55 a	15.23 a	1.46 a*	2.19 a	3.38 a	4.56 a	7.06 a
	24	1.73 a	2.77 a	5.02 a	6.88 a	10.84 a	2.15 a	3.56 a	6.71 a	9.27 a	14.95 a	1.3 a*	2.03 a	3.25 a	4.44 a	6.94 a
9	12	2.02 a	3.03 a	5.26 a	7.11 a	11.07 a	2.43 a	3.84 a	6.92 a	9.43 a	15.02 a	1.48 a*	2.2 a	3.39 a	4.57 a	7.07 a
	16	1.85 a	2.87 a	5.11 a	6.96 a	10.92 a	2.26 a	3.65 a	6.73 a	9.25 a	14.84 a	1.37 a*	2.1 a	3.31 a	4.5 a	6.99 a
	24	1.51 a	2.56 a	4.81 a	6.67 a	10.63 a	1.9 a	3.27 a	6.35 a	8.89 a	14.48 a	1.17 a*	1.91 a	3.14 a	4.34 a	6.85 a
10	12	1.89 a	2.91 a	5.14 a	6.98 a	10.94 a	2.28 a	3.65 a	6.65 a	9.12 a	14.6 a	1.4 a*	2.13 a	3.33 a	4.51 a	7.01 a
	16	1.67 a	2.71 a	4.94 a	6.8 a	10.75 a	2.06 a	3.41 a	6.41 a	8.89 a	14.37 a	1.27 a*	2.01 a	3.23 a	4.42 a	6.92 a
	24	1.26 a	2.32 a	4.57 a	6.43 a	10.38 a	1.63 a	2.96 a	5.94 a	8.45 a	13.92 a	1.02 a*	1.76 a	3.03 a	4.23 a	6.74 a
12	12	1.54 a	2.56 a	4.76 a	6.66 a	10.6 a	1.91 a	3.19 a	5.96 a	8.33 a	13.5 a	1.22 a*	1.96 a	3.18 a	4.37 a	6.88 a
	16	1.25 a	2.28 a	4.48 a	6.37 a	10.3 a	1.6 a	2.86 a	5.63 a	8 a	13.16 a	1.04 a*	1.78 a	3.03 a	4.23 a	6.74 a
	24	0.7 a	1.75 a	3.94 a	5.82 a	9.74 a	1.03 a	2.24 a	4.98 a	7.37 a	12.5 a	0.68 a*	1.43 a	2.74 a	3.95 a	6.47 a
14	12	1.15 a	2.13 a	4.15 a	5.95 a	10.05 a	1.49 a	2.65 a	5.14 a	7.34 a	12.1 a	1.01 a*	1.75 a	3 a	4.2 a	6.71 a
	16	0.79 a	1.78 a	3.79 a	5.58 a	9.63 a	1.11 a	2.24 a	4.71 a	6.92 a	11.64 a	0.77 a*	1.51 a	2.8 a	4 a	6.52 a
	24	0.14 c	1.12 b	3.11 a	4.87 a	8.83 a	0.42 c	1.48 a	3.92 a	6.13 a	10.78 a	0.29 a*	1.04 a	2.41 a	3.62 a	6.14 a
16	12	0.75 b	1.67 a	3.45 a	5.08 a	8.73 a	1.05 a	2.09 a	4.26 a	6.25 a	10.5 a	0.77 a*	1.51 a	2.79 a	3.99 a	6.49 a
	16	0.35 c	1.26 b	3.03 a	4.64 a	8.22 a	0.62 c	1.62 a	3.76 a	5.75 a	9.94 a	0.46 a*	1.2 a	2.53 a	3.73 a	6.24 a
	24		0.51 d	2.28 c	3.82 b	7.28 a		0.77 c	2.88 b	4.85 a	8.92 a		0.61 a	2.02 a	3.22 a	5.74 a

WALL HEIGHT	SPACING O.C.	15 PSF LATERAL LOAD									
		800S162-(MILS)					800S200-(MILS)				
		33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68	97
8	12	2.2a*	3.17a	5.26a	7.08a	11.1a	2.75a*	4.25a	7.53a	10.09a	15.8a
	16	2.1a*	3.07a	5.18a	7a	11.02a	2.65a*	4.14a	7.42a	9.99a	15.7a
	24	1.9a*	2.89a	5.01a	6.84a	10.86a	2.44a*	3.93a	7.21a	9.8a	15.52a
9	12	2.12a*	3.09a	5.19a	7.01a	11.03a	2.67a*	4.16a	7.44a	10a	15.71a
	16	1.99a*	2.97a	5.08a	6.91a	10.93a	2.53a*	4.02a	7.3a	9.88a	15.59a
	24	1.75a*	2.73a	4.87a	6.69a	10.72a	2.27a*	3.74a	7.02a	9.63a	15.35a
10	12	2.02a*	3a	5.11a	6.93a	10.95a	2.57a*	4.05a	7.33a	9.91a	15.62a
	16	1.87a*	2.85a	4.97a	6.8a	10.82a	2.4a*	3.88a	7.15a	9.75a	15.46a
	24	1.57a*	2.56a	4.7a	6.53a	10.56a	2.07a*	3.54a	6.81a	9.43a	15.16a
12	12	1.81a*	2.79a	4.91a	6.73a	10.75a	2.33a*	3.8a	7.06a	9.66a	15.37a
	16	1.59a*	2.57a	4.71a	6.53a	10.55a	2.09a*	3.55a	6.81a	9.42a	15.14a
	24	1.16a*	2.15a	4.31a	6.15a	10.17a	1.63a*	3.05a	6.3a	8.95a	14.68a
14	12	1.55a*	2.53a	4.65a	6.48a	10.49a	2.03a*	3.45a	6.63a	9.28a	15.04a
	16	1.25a*	2.24a	4.38a	6.2a	10.21a	1.71a*	3.11a	6.28a	8.94a	14.71a
	24	0.69a*	1.68a	3.84a	5.67a	9.66a	1.1a*	2.46a	5.59a	8.29a	14.05a
16	12	1.25a*	2.23a	4.35a	6.16a	10.15a	1.68a*	3.02a	6a	8.55a	14.23a
	16	0.88a*	1.86a	3.98a	5.8a	9.77a	1.28a*	2.59a	5.55a	8.13a	13.78a
	24	0.19b*	1.15a	3.29a	5.09a	9.04a	0.54a*	1.79a	4.71a	7.3a	12.92a

WALL HEIGHT	SPACING O.C.	20 PSF LATERAL LOAD														
		350S162-(MILS)					362S137-(mils)					362S162-(mils)				
		33 KSI		50 KSI			33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68		33	43	54	68	97
8	12	1.16a	1.89a	3.36a	4.46a	6.76a	0.91a	1.53a	2.77a	3.79a		1.23a	1.99a	3.55a	4.76a	7.19a
	16	0.9a	1.62a	3.11a	4.21a	6.48a	0.67a	1.28a	2.54a	3.56a		0.98a	1.72a	3.3a	4.5a	6.9a
	24	0.43c	1.11b	2.64a	3.72a	5.93a	0.24c	0.81b	2.11a	3.1a		0.5b	1.21a	2.82a	4.01a	6.35a
9	12	0.9a	1.57a	2.91a	3.92a	6a	0.68a	1.26a	2.43a	3.37a		0.97a	1.67a	3.12a	4.23a	6.43a
	16	0.6c	1.26a	2.62a	3.62a	5.66a	0.41c	0.97b	2.16a	3.08a		0.67b	1.36a	2.82a	3.92a	6.09a
	24	0.07d	0.69c	2.08b	3.06a	5.02a		0.44d	1.66c	2.55b		0.13d	0.78c	2.27b	3.34a	5.44a
10	12	0.64c	1.25a	2.45a	3.37a	5.21a	0.46c	0.99b	2.07a	2.91a		0.7b	1.36a	2.67a	3.66a	5.64a
	16	0.32d	0.91c	2.14b	3.03a	4.83a	0.16d	0.66c	1.77b	2.59a		0.38d	1.01c	2.34a	3.32a	5.25a
	24		0.29d	1.56d	2.43c	4.13a		0.09e	1.22d	2.01c			0.38d	1.74c	2.69b	4.53a
12	12	0.18e	0.67d	1.62c	2.33b	3.7a	0.06e	0.48d	1.36c	2.02b		0.24e	0.76d	1.8c	2.58b	4.08a
	16		0.3e	1.29d	1.97c	3.3b		0.13e	1.04d	1.67d			0.38e	1.45d	2.2c	3.66b
	24			0.71e	1.35e	2.58d			0.48e	1.06e				0.84e	1.55e	2.9d
14	12		0.22e	1e	1.54d	2.56c		0.08e	0.82e	1.31d		0.29e	1.13e	1.73d	2.85c	
	16			0.68e	1.2e	2.17d			0.5f	0.97e			0.79e	1.36e	2.43d	
	24			0.13f	0.6f	1.49e				0.39f			0.2f	0.73f	1.71e	
16	12			0.57f	0.98e	1.75d			0.42f	0.8e			0.66f	1.12e	1.96d	
	16			0.26f	0.66f	1.38e			0.13f	0.49f			0.34f	0.77f	1.57e	
	24				0.11f	0.75f								0.19f	0.9f	

WALL HEIGHT	SPACING O.C.	20 PSF LATERAL LOAD														
		362S200-(MILS)					400S137-(MILS)					400S162-(MILS)				
		33 KSI		50 KSI			33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68		33	43	54	68	97
8	12	1.55a	2.56a	4.49a	6a	8.84a	1.06a	1.74a	3.14a	4.42a		1.42a	2.25a	4.03a	5.57a	8.42a
	16	1.27a	2.27a	4.2a	5.72a	8.54a	0.83a	1.5a	2.92a	4.18a		1.17a	1.99a	3.79a	5.31a	8.13a
	24	0.74b	1.71a	3.65a	5.18a	7.97a	0.4b	1.04a	2.5a	3.72a		0.7a	1.5a	3.32a	4.81a	7.58a
9	12	1.25a	2.19a	3.94a	5.34a	7.94a	0.84a	1.49a	2.83a	4.07a		1.17a	1.95a	3.64a	5.08a	7.71a
	16	0.92a	1.85a	3.6a	5a	7.58a	0.57b	1.2a	2.56a	3.77a		0.87a	1.64a	3.34a	4.76a	7.36a
	24	0.32c	1.21b	2.97a	4.37a	6.91a	0.07d	0.67c	2.06a	3.21a		0.33c	1.07b	2.78a	4.16a	6.7a
10	12	0.95a	1.82a	3.38a	4.64a	7a	0.62b	1.22a	2.49a	3.62a		0.9a	1.64a	3.21a	4.54a	6.93a
	16	0.59c	1.43b	3a	4.27a	6.59a	0.31c	0.89b	2.18a	3.28a		0.57c	1.29a	2.87a	4.17a	6.52a
	24		0.74d	2.32c	3.58b	5.84a		0.3d	1.61c	2.65b			0.64c	2.24b	3.48a	5.76a
12	12	0.41d	1.11c	2.32b	3.32a	5.16a	0.19d	0.7c	1.78b	2.67a		0.41d	1.03c	2.33b	3.38a	5.3a
	16	0.01e	0.69d	1.92c	2.91b	4.71a		0.32d	1.42d	2.27c		0.04e	0.62d	1.94c	2.96b	4.82a
	24			1.21e	2.19d	3.9c			0.79e	1.58d				1.25e	2.2d	3.96c
14	12		0.54e	1.49d	2.28c	3.68b		0.25e	1.15d	1.82d		0.01e	0.5d	1.56d	2.35c	3.81a
	16		0.12e	1.1e	1.88d	3.23c			0.79e	1.42e			0.08e	1.16e	1.92d	3.33c
	24			0.43f	1.18e	2.45e			0.15f	0.73f				0.48f	1.18e	2.49d
16	12		0.12f	0.91e	1.53e	2.61d			0.67e	1.17e			0.09e	0.97e	1.58d	2.7c
	16			0.54f	1.15e	2.19e			0.32f	0.8f				0.59f	1.17e	2.24d
	24				0.5f	1.46f				0.15f					0.48f	1.45e

20 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	400S200-(MILS)					550S162-(MILS)					600S137-(MILS)				
		33 KSI		50 KSI			33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.76 a	2.88 a	5.1 a	6.97 a	10.34 a	1.93 a	2.95 a	5.22 a	7.06 a	10.94 a	1.42 a	2.17 a	3.53 a	4.77 a	7.32 a
	16	1.48 a	2.6 a	4.82 a	6.69 a	10.05 a	1.74 a	2.77 a	5.05 a	6.89 a	10.77 a	1.27 a	2.02 a	3.4 a	4.65 a	7.21 a
	24	0.97 a	2.06 a	4.28 a	6.14 a	9.48 a	1.35 a	2.41 a	4.7 a	6.55 a	10.42 a	0.97 a	1.73 a	3.15 a	4.4 a	7 a
9	12	1.47 a	2.53 a	4.59 a	6.36 a	9.49 a	1.75 a	2.77 a	5.03 a	6.9 a	10.77 a	1.29 a	2.04 a	3.41 a	4.66 a	7.22 a
	16	1.15 a	2.19 a	4.25 a	6.01 a	9.12 a	1.5 a	2.54 a	4.8 a	6.67 a	10.54 a	1.1 a	1.85 a	3.25 a	4.5 a	7.09 a
	24	0.55 b	1.56 a	3.61 a	5.36 a	8.43 a	1.03 a	2.09 a	4.36 a	6.23 a	10.09 a	0.73 a	1.48 a	2.93 a	4.19 a	6.81 a
10	12	1.18 a	2.17 a	4.05 a	5.69 a	8.55 a	1.54 a	2.56 a	4.76 a	6.69 a	10.56 a	1.15 a	1.9 a	3.29 a	4.53 a	7.11 a
	16	0.81 b	1.78 a	3.66 a	5.29 a	8.13 a	1.24 a	2.28 a	4.48 a	6.4 a	10.26 a	0.92 a	1.67 a	3.08 a	4.33 a	6.94 a
	24	0.15 d	1.07 c	2.94 a	4.54 a	7.33 a	0.69 a	1.74 a	3.94 a	5.85 a	9.7 a	0.47 a	1.22 a	2.69 a	3.94 a	6.59 a
12	12	0.61 c	1.44 b	2.96 a	4.31 a	6.63 a	1.08 a	2.07 a	4.1 a	5.91 a	9.96 a	0.82 a	1.56 a	2.97 a	4.21 a	6.82 a
	16	0.2 d	0.99 c	2.52 b	3.84 a	6.12 a	0.7 b	1.69 a	3.72 a	5.51 a	9.51 a	0.5 a	1.24 a	2.68 a	3.92 a	6.56 a
	24		0.2 e	1.73 d	3.01 c	5.21 b		0.99 b	3.01 a	4.77 a	8.67 a		0.63 b	2.13 a	3.36 a	6.05 a
14	12	0.14 e	0.81 d	2.02 c	3.05 b	4.86 a	0.61 c	1.53 a	3.34 a	4.97 a	8.55 a	0.46 b	1.17 a	2.59 a	3.81 a	6.43 a
	16		0.35 e	1.57 d	2.58 c	4.35 b	0.17 d	1.08 c	2.88 b	4.48 a	7.99 a	0.07 d	0.76 b	2.21 a	3.42 a	6.06 a
	24			0.79 e	1.76 e	3.44 d		0.26 d	2.05 d	3.59 c	6.96 a		0.01 d	1.5 c	2.68 b	5.36 a
16	12		0.32 e	1.3 e	2.1 d	3.52 c	0.18 d	1.01 c	2.57 b	3.97 a	7.03 a	0.09 d	0.76 c	2.15 b	3.33 a	5.94 a
	16			0.87 e	1.66 e	3.02 d		0.51 d	2.07 d	3.43 c	6.4 a		0.28 d	1.69 c	2.84 b	5.45 a
	24			0.14 f	0.89 f	2.17 e			1.19 e	2.48 d	5.29 c			0.85 e	1.95 d	4.57 c

20 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	600S162-(MILS)					600S200-(mils)					800S137-(mils)				
		33 KSI		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	2 a	3.02 a	5.25 a	7.1 a	11.06 a	2.43 a	3.86 a	7.01 a	9.55 a	15.23 a	1.46 a*	2.19 a	3.38 a	4.56 a	7.06 a
	16	1.82 a	2.85 a	5.1 a	6.95 a	10.92 a	2.25 a	3.66 a	6.81 a	9.36 a	15.04 a	1.35 a*	2.09 a	3.29 a	4.48 a	6.98 a
	24	1.47 a	2.53 a	4.79 a	6.65 a	10.62 a	1.88 a	3.27 a	6.42 a	9 a	14.67 a	1.14 a*	1.88 a	3.12 a	4.32 a	6.83 a
9	12	1.85 a	2.87 a	5.11 a	6.96 a	10.92 a	2.26 a	3.65 a	6.73 a	9.25 a	14.84 a	1.37 a*	2.1 a	3.31 a	4.5 a	6.99 a
	16	1.62 a	2.66 a	4.91 a	6.77 a	10.73 a	2.02 a	3.4 a	6.48 a	9.01 a	14.6 a	1.24 a*	1.97 a	3.2 a	4.39 a	6.9 a
	24	1.18 a	2.25 a	4.52 a	6.38 a	10.35 a	1.56 a	2.91 a	5.98 a	8.54 a	14.12 a	0.96 a*	1.71 a	2.98 a	4.19 a	6.7 a
10	12	1.67 a	2.71 a	4.94 a	6.8 a	10.75 a	2.06 a	3.41 a	6.41 a	8.89 a	14.37 a	1.27 a*	2.01 a	3.23 a	4.42 a	6.92 a
	16	1.4 a	2.45 a	4.69 a	6.55 a	10.5 a	1.77 a	3.11 a	6.1 a	8.59 a	14.07 a	1.1 a*	1.84 a	3.09 a	4.29 a	6.8 a
	24	0.86 a	1.94 a	4.2 a	6.06 a	10.02 a	1.22 a	2.51 a	5.49 a	8.02 a	13.47 a	0.77 a*	1.52 a	2.83 a	4.03 a	6.55 a
12	12	1.25 a	2.28 a	4.48 a	6.37 a	10.3 a	1.6 a	2.86 a	5.63 a	8 a	13.16 a	1.04 a*	1.78 a	3.03 a	4.23 a	6.74 a
	16	0.88 a	1.92 a	4.11 a	6 a	9.92 a	1.22 a	2.44 a	5.19 a	7.58 a	12.72 a	0.8 a*	1.55 a	2.84 a	4.04 a	6.56 a
	24	0.19 c	1.24 a	3.43 a	5.3 a	9.19 a	0.5 b	1.66 a	4.37 a	6.77 a	11.86 a	0.33 a*	1.09 a	2.46 a	3.67 a	6.2 a
14	12	0.79 a	1.78 a	3.79 a	5.58 a	9.63 a	1.11 a	2.24 a	4.71 a	6.92 a	11.64 a	0.77 a*	1.51 a	2.8 a	4 a	6.52 a
	16	0.35 c	1.33 b	3.33 a	5.1 a	9.09 a	0.64 b	1.73 a	4.18 a	6.38 a	11.06 a	0.45 a*	1.19 a	2.54 a	3.74 a	6.26 a
	24		0.52 d	2.5 c	4.21 a	8.09 a		0.79 c	3.19 b	5.39 a	9.97 a		0.59 a	2.02 a	3.24 a	5.77 a
16	12	0.35 c	1.26 b	3.03 a	4.64 a	8.22 a	0.62 c	1.62 a	3.76 a	5.75 a	9.94 a	0.46 a*	1.2 a	2.53 a	3.73 a	6.24 a
	16		0.75 d	2.52 c	4.08 a	7.58 a	0.1 d	1.04 c	3.16 b	5.14 a	9.25 a	0.07 b*	0.8 a	2.18 a	3.39 a	5.9 a
	24			1.6 d	3.09 c	6.44 b		0.01 d	2.09 d	4.03 c	8.01 a		0.06 c	1.53 b	2.74 a	5.25 a

20 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	800S162-(MILS)					800S200-(MILS)					50 ksi				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	2.1 a*	3.07 a	5.18 a	7 a	11.02 a	2.65 a*	4.14 a	7.42 a	9.99 a	15.7 a					
	16	1.97 a*	2.95 a	5.07 a	6.89 a	10.91 a	2.51 a*	4 a	7.28 a	9.86 a	15.58 a					
	24	1.71 a*	2.7 a	4.84 a	6.67 a	10.7 a	2.23 a*	3.71 a	6.99 a	9.6 a	15.33 a					
9	12	1.99 a*	2.97 a	5.08 a	6.91 a	10.93 a	2.53 a*	4.02 a	7.3 a	9.88 a	15.59 a					
	16	1.83 a*	2.81 a	4.94 a	6.77 a	10.79 a	2.36 a*	3.84 a	7.11 a	9.71 a	15.43 a					
	24	1.5 a*	2.5 a	4.65 a	6.49 a	10.51 a	2.01 a*	3.47 a	6.75 a	9.38 a	15.11 a					
10	12	1.87 a*	2.85 a	4.97 a	6.8 a	10.82 a	2.4 a*	3.88 a	7.15 a	9.75 a	15.46 a					
	16	1.67 a*	2.65 a	4.79 a	6.62 a	10.65 a	2.18 a*	3.65 a	6.93 a	9.54 a	15.26 a					
	24	1.27 a*	2.27 a	4.44 a	6.27 a	10.3 a	1.75 a*	3.2 a	6.47 a	9.12 a	14.86 a					
12	12	1.59 a*	2.57 a	4.71 a	6.53 a	10.55 a	2.09 a*	3.55 a	6.81 a	9.42 a	15.14 a					
	16	1.3 a*	2.29 a	4.44 a	6.27 a	10.29 a	1.78 a*	3.22 a	6.47 a	9.11 a	14.83 a					
	24	0.74 a*	1.74 a	3.93 a	5.76 a	9.78 a	1.17 a*	2.57 a	5.81 a	8.49 a	14.23 a					
14	12	1.25 a*	2.24 a	4.38 a	6.2 a	10.21 a	1.71 a*	3.11 a	6.28 a	8.94 a	14.71 a					
	16	0.87 a*	1.86 a	4.02 a	5.84 a	9.84 a	1.3 a*	2.67 a	5.82 a	8.51 a	14.27 a					
	24	0.15 b*	1.14 a	3.32 a	5.14 a	9.13 a	0.52 a*	1.83 a	4.94 a	7.66 a	13.41 a					
16	12	0.88 a*	1.86 a	3.98 a	5.8 a	9.77 a	1.28 a*	2.59 a	5.55 a	8.13 a	13.78 a					
	16	0.41 b*	1.38 a	3.52 a	5.32 a	9.28 a	0.78 a*	2.05 a	4.98 a	7.57 a	13.2 a					
	24		0.49 b	2.63 a	4.42 a	8.34 a		1.03 a	3.91 a	6.52 a	12.09 a					

25 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	350S162-(mils)						362S137-(mils)						362S162-(mils)		
		33 KSI		50 KSI			33 KSI		50 KSI		33 KSI		50 KSI			
		33	43	54	68	97	33	43	54	68	33	43	54	68	97	
8	12	0.97 a	1.68 a	3.17 a	4.27 a	6.55 a	0.73 a	1.34 a	2.6 a	3.61 a	1.04 a	1.78 a	3.36 a	4.57 a	6.97 a	
	16	0.66 b	1.36 a	2.87 a	3.96 a	6.2 a	0.45 b	1.04 a	2.32 a	3.32 a	0.73 a	1.46 a	3.05 a	4.25 a	6.62 a	
	24	0.09 d	0.76 c	2.3 b	3.38 a	5.54 a		0.49 c	1.81 b	2.78 a	0.16 c	0.86 b	2.48 a	3.66 a	5.96 a	
9	12	0.67 b	1.33 a	2.69 a	3.7 a	5.74 a	0.48 c	1.04 a	2.23 a	3.15 a	1.44 a	2.89 a	3.99 a	6.17 a		
	16	0.33 d	0.96 b	2.34 a	3.34 a	5.34 a	0.16 d	0.7 c	1.9 b	2.81 a	0.39 c	1.06 b	2.54 a	3.62 a	5.76 a	
	24		0.29 d	1.71 c	2.68 b	4.58 a		0.07 d	1.32 d	2.18 c		0.39 d	1.89 c	2.94 b	4.99 a	
10	12	0.39 d	0.99 c	2.21 a	3.12 a	4.92 a	0.23 d	0.74 c	1.84 b	2.67 a	0.46 c	1.09 b	2.42 a	3.4 a	5.34 a	
	16	0.02 e	0.59 d	1.84 c	2.72 b	4.47 a		0.37 d	1.49 c	2.29 b	0.08 d	0.68 d	2.03 c	2.99 a	4.88 a	
	24			1.17 d	2.02 d	3.66 c			0.85 e	1.61 d			1.34 d	2.26 c	4.04 b	
12	12		0.39 e	1.37 d	2.06 c	3.39 b		0.21 e	1.12 d	1.75 c		0.47 d	1.54 d	2.29 c	3.76 a	
	16			0.99 e	1.65 d	2.93 c			0.75 e	1.36 d		0.03 e	1.13 e	1.86 d	3.27 c	
	24			0.32 f	0.94 e	2.11 e			0.1 f	0.66 e			0.43 f	1.11 e	2.4 d	
14	12			0.76 e	1.28 e	2.26 d			0.58 e	1.06 e			0.87 e	1.45 e	2.53 d	
	16			0.39 f	0.89 e	1.81 e			0.22 f	0.67 f			0.49 f	1.04 e	2.06 e	
	24				0.21 f	1.04 f				0.01 f				0.32 f	1.24 f	
16	12			0.34 f	0.73 f	1.47 e			0.2 f	0.56 f			0.41 f	0.85 f	1.67 e	
	16				0.37 f	1.05 f				0.2 f			0.05 f	0.47 f	1.22 f	
	24					0.34 f									0.47 f	

25 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	362S200-(mils)					400S137-(mils)					400S162-(mils)				
		33 KSI		50 KSI			33 KSI		50 KSI			33 KSI		50 KSI		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97	
8	12	1.34 a	2.34 a	4.27 a	5.79 a	8.62 a	0.89 a	1.56 a	2.98 a	4.24 a	1.23 a	2.05 a	3.85 a	5.37 a	8.2 a	
	16	1 a	1.99 a	3.92 a	5.45 a	8.26 a	0.61 a	1.27 a	2.71 a	3.95 a	0.93 a	1.74 a	3.55 a	5.06 a	7.86 a	
	24	0.37 c	1.33 a	3.26 a	4.79 a	7.56 a	0.1 c	0.72 b	2.19 a	3.39 a	0.37 b	1.15 a	2.98 a	4.45 a	7.19 a	
9	12	1 a	1.93 a	3.68 a	5.08 a	7.67 a	0.64 a	1.27 a	2.63 a	3.84 a	0.94 a	1.72 a	3.41 a	4.84 a	7.45 a	
	16	0.61 c	1.52 a	3.28 a	4.68 a	7.24 a	0.32 c	0.93 b	2.31 a	3.49 a	0.59 b	1.35 a	3.06 a	4.45 a	7.02 a	
	24		0.78 c	2.54 b	3.93 a	6.43 a		0.29 d	1.7 c	2.82 b		0.66 c	2.39 b	3.73 a	6.22 a	
10	12	0.68 c	1.52 a	3.1 a	4.36 a	6.69 a	0.39 c	0.97 b	2.26 a	3.36 a	0.65 b	1.38 a	2.95 a	4.26 a	6.62 a	
	16	0.25 d	1.07 c	2.65 b	3.91 a	6.21 a	0.03 d	0.59 c	1.89 b	2.95 a	0.26 d	0.96 b	2.54 a	3.82 a	6.13 a	
	24		0.27 d	1.86 d	3.1 c	5.32 a			1.22 d	2.21 c		0.2 d	1.81 c	3.01 b	5.23 a	
12	12	0.11 e	0.79 d	2.01 c	3.01 b	4.82 a		0.41 d	1.51 c	2.37 b	0.13 d	0.72 d	2.03 c	3.06 b	4.94 a	
	16		0.3 e	1.55 d	2.53 c	4.29 b			1.09 d	1.91 d		0.25 e	1.58 d	2.56 c	4.38 b	
	24			0.74 e	1.7 e	3.36 d			0.37 e	1.11 e			0.78 e	1.69 e	3.39 d	
14	12		0.22 e	1.2 e	1.97 d	3.34 c			0.88 e	1.51 d		0.18 e	1.26 e	2.02 d	3.45 c	
	16			0.75 e	1.51 e	2.83 d			0.46 f	1.06 e			0.81 e	1.54 e	2.9 d	
	24				0.72 f	1.94 e				0.28 f			0.03 f	0.7 f	1.94 e	
16	12			0.63 f	1.24 e	2.29 d			0.4 f	0.89 e			0.69 e	1.27 e	2.35 d	
	16			0.22 f	0.81 f	1.81 e				0.46 f			0.26 f	0.81 f	1.83 e	
	24				0.08 f	0.98 f								0.02 f	0.94 f	

25 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	400S200-(MILS)					550S162-(mils)					600S137-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.55 a	2.67 a	4.89 a	6.76 a	10.12 a	1.79 a	2.82 a	5.09 a	6.93 a	10.81 a	1.31 a	2.06 a	3.43 a	4.68 a	7.24 a
	16	1.22 a	2.32 a	4.55 a	6.41 a	9.76 a	1.54 a	2.59 a	4.87 a	6.72 a	10.59 a	1.12 a	1.87 a	3.27 a	4.53 a	7.11 a
	24	0.6 b	1.67 a	3.89 a	5.75 a	9.06 a	1.07 a	2.14 a	4.44 a	6.3 a	10.17 a	0.75 a	1.51 a	2.96 a	4.22 a	6.85 a
9	12	1.23 a	2.28 a	4.34 a	6.1 a	9.21 a	1.56 a	2.59 a	4.86 a	6.73 a	10.6 a	1.15 a	1.9 a	3.29 a	4.54 a	7.12 a
	16	0.84 a	1.87 a	3.92 a	5.68 a	8.77 a	1.26 a	2.31 a	4.58 a	6.45 a	10.32 a	0.91 a	1.67 a	3.09 a	4.34 a	6.95 a
	24	0.14 c	1.12 b	3.16 a	4.89 a	7.93 a	0.69 a	1.76 a	4.04 a	5.91 a	9.76 a	0.46 a	1.21 a	2.7 a	3.96 a	6.61 a
10	12	0.9 a	1.87 a	3.75 a	5.39 a	8.23 a	1.32 a	2.34 a	4.55 a	6.47 a	10.34 a	0.97 a	1.72 a	3.13 a	4.38 a	6.98 a
	16	0.47 c	1.41 b	3.29 a	4.91 a	7.72 a	0.96 a	2 a	4.21 a	6.13 a	9.98 a	0.69 a	1.44 a	2.89 a	4.14 a	6.76 a
	24		0.59 d	2.45 c	4.03 b	6.77 a	0.29 b	1.35 a	3.56 a	5.46 a	9.28 a	0.14 b	0.89 a	2.4 a	3.65 a	6.34 a
12	12	0.3 d	1.1 c	2.62 b	3.95 a	6.24 a	0.79 a	1.78 a	3.82 a	5.61 a	9.62 a	0.58 a	1.32 a	2.75 a	3.99 a	6.62 a
	16		0.58 d	2.11 c	3.41 b	5.65 a	0.34 c	1.33 a	3.36 a	5.13 a	9.08 a	0.2 b	0.93 a	2.4 a	3.64 a	6.3 a
	24			1.2 e	2.45 d	4.59 c		0.5 c	2.51 b	4.24 a	8.07 a		0.2 c	1.73 b	2.96 a	5.68 a
14	12		0.46 e	1.67 d	2.69 c	4.47 b	0.28 d	1.19 b	2.99 a	4.6 a	8.13 a	0.16 c	0.86 b	2.3 a	3.51 a	6.15 a
	16			1.16 e	2.15 d	3.88 c		0.66 d	2.45 c	4.02 b	7.46 a		0.38 c	1.84 b	3.04 a	5.71 a
	24			0.28 f	1.23 e	2.84 e			1.49 d	2.98 d	6.26 b			1 d	2.17 c	4.87 b
16	12			0.97 e	1.76 e	3.14 d		0.63 d	2.19 c	3.57 b	6.55 a		0.4 d	1.8 c	2.96 b	5.57 a
	16			0.49 f	1.26 e	2.57 e		0.06 e	1.61 d	2.94 d	5.82 b			1.25 d	2.38 c	5 b
	24				0.39 f	1.61 f			0.6 e	1.85 e	4.55 d			0.28 e	1.35 e	3.96 d

25 PSF LATERAL LOAD																			
WALL HEIGHT	SPACING O.C.	600S162-(MILS)						600S200-(mils)						800S137-(mils)					
		33 ksi			50 ksi			33 ksi			50 ksi			33 ksi			50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97			
8	12	1.87 a	2.89 a	5.14 a	6.99 a	10.95 a	2.29 a	3.71 a	6.86 a	9.41 a	15.09 a	1.38 a*	2.11 a	3.31 a	4.5 a	7 a			
	16	1.64 a	2.69 a	4.94 a	6.8 a	10.77 a	2.06 a	3.46 a	6.61 a	9.18 a	14.86 a	1.25 a*	1.98 a	3.21 a	4.4 a	6.91 a			
	24	1.21 a	2.28 a	4.56 a	6.43 a	10.4 a	1.6 a	2.98 a	6.12 a	8.72 a	14.4 a	0.98 a*	1.72 a	3 a	4.2 a	6.72 a			
9	12	1.68 a	2.71 a	4.96 a	6.82 a	10.78 a	2.08 a	3.46 a	6.54 a	9.07 a	14.66 a	1.27 a*	2.01 a	3.23 a	4.42 a	6.92 a			
	16	1.4 a	2.45 a	4.71 a	6.57 a	10.54 a	1.79 a	3.15 a	6.23 a	8.78 a	14.36 a	1.1 a*	1.84 a	3.09 a	4.29 a	6.8 a			
	24	0.86 a	1.95 a	4.22 a	6.09 a	10.06 a	1.23 a	2.55 a	5.62 a	8.19 a	13.77 a	0.76 a*	1.51 a	2.82 a	4.03 a	6.55 a			
10	12	1.46 a	2.51 a	4.75 a	6.61 a	10.57 a	1.84 a	3.18 a	6.17 a	8.67 a	14.14 a	1.15 a*	1.88 a	3.13 a	4.32 a	6.83 a			
	16	1.13 a	2.19 a	4.44 a	6.3 a	10.26 a	1.49 a	2.81 a	5.79 a	8.3 a	13.77 a	0.93 a*	1.68 a	2.96 a	4.16 a	6.68 a			
	24	0.48 a	1.58 a	3.84 a	5.71 a	9.66 a	0.82 a	2.08 a	5.05 a	7.59 a	13.03 a	0.52 a*	1.28 a	2.63 a	3.84 a	6.37 a			
12	12	0.97 a	2.01 a	4.2 a	6.09 a	10.02 a	1.31 a	2.55 a	5.3 a	7.68 a	12.83 a	0.86 a*	1.6 a	2.89 a	4.09 a	6.6 a			
	16	0.53 b	1.58 a	3.77 a	5.64 a	9.55 a	0.85 a	2.04 a	4.78 a	7.17 a	12.29 a	0.56 a*	1.31 a	2.65 a	3.86 a	6.38 a			
	24		0.76 b	2.94 a	4.79 a	8.66 a		1.1 b	3.79 a	6.2 a	11.25 a		0.75 a	2.17 a	3.4 a	5.94 a			
14	12	0.45 c	1.44 a	3.44 a	5.21 a	9.22 a	0.76 b	1.86 a	4.31 a	6.51 a	11.2 a	0.53 a*	1.27 a	2.6 a	3.81 a	6.33 a			
	16		0.91 c	2.9 b	4.65 a	8.58 a	0.21 c	1.25 b	3.67 a	5.87 a	10.5 a	0.14 a*	0.89 a	2.28 a	3.49 a	6.02 a			
	24			1.92 d	3.6 c	7.39 a		0.15 d	2.52 c	4.7 b	9.21 a		0.16 b	1.65 a	2.87 a	5.41 a			
16	12		0.87 c	2.64 b	4.22 a	7.74 a	0.23 d	1.18 c	3.31 a	5.29 a	9.42 a	0.17 b*	0.9 a	2.27 a	3.47 a	5.99 a			
	16		0.29 d	2.04 d	3.57 c	6.99 a		0.5 d	2.61 c	4.57 b	8.61 a		0.43 b	1.85 a	3.06 a	5.58 a			
	24			0.98 e	2.42 d	5.67 c			1.37 d	3.28 d	7.16 b			1.06 c	2.27 b	4.78 a			

25 PSF LATERAL LOAD											
WALL HEIGHT	SPACING O.C.	800S162-(MILS)					800S200-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97
8	12	2 a*	2.98 a	5.09 a	6.92 a	10.94 a	2.55 a*	4.03 a	7.31 a	9.89 a	15.61 a
	16	1.84 a*	2.82 a	4.95 a	6.78 a	10.81 a	2.37 a*	3.85 a	7.14 a	9.73 a	15.45 a
	24	1.52 a*	2.52 a	4.67 a	6.51 a	10.54 a	2.03 a*	3.49 a	6.78 a	9.41 a	15.14 a
9	12	1.87 a*	2.85 a	4.97 a	6.8 a	10.82 a	2.4 a*	3.88 a	7.16 a	9.75 a	15.47 a
	16	1.66 a*	2.65 a	4.79 a	6.62 a	10.65 a	2.18 a*	3.65 a	6.93 a	9.54 a	15.27 a
	24	1.26 a*	2.26 a	4.44 a	6.28 a	10.31 a	1.75 a*	3.2 a	6.48 a	9.13 a	14.87 a
10	12	1.72 a*	2.7 a	4.84 a	6.67 a	10.69 a	2.24 a*	3.71 a	6.98 a	9.59 a	15.31 a
	16	1.47 a*	2.46 a	4.61 a	6.45 a	10.47 a	1.97 a*	3.42 a	6.7 a	9.33 a	15.06 a
	24	0.97 a*	1.98 a	4.17 a	6.01 a	10.04 a	1.43 a*	2.86 a	6.13 a	8.81 a	14.56 a
12	12	1.37 a*	2.36 a	4.51 a	6.34 a	10.36 a	1.86 a*	3.3 a	6.55 a	9.19 a	14.91 a
	16	1.02 a*	2.01 a	4.18 a	6.02 a	10.04 a	1.48 a*	2.89 a	6.13 a	8.8 a	14.53 a
	24	0.33 a*	1.34 a	3.55 a	5.39 a	9.4 a	0.73 a*	2.1 a	5.32 a	8.04 a	13.78 a
14	12	0.97 a*	1.96 a	4.11 a	5.93 a	9.94 a	1.4 a*	2.78 a	5.93 a	8.61 a	14.38 a
	16	0.51 a*	1.49 a	3.66 a	5.49 a	9.48 a	0.91 a*	2.24 a	5.37 a	8.08 a	13.84 a
	24		0.62 a	2.82 a	4.64 a	8.6 a		1.22 a	4.3 a	7.05 a	12.79 a
16	12	0.53 a*	1.5 a	3.63 a	5.44 a	9.4 a	0.91 a*	2.18 a	5.12 a	7.71 a	13.34 a
	16		0.93 a	3.07 a	4.87 a	8.8 a	0.31 b*	1.53 a	4.44 a	7.04 a	12.64 a
	24			2.01 b	3.78 a	7.66 a		0.32 c	3.15 a	5.77 a	11.3 a

30 PSF LATERAL LOAD																		
WALL HEIGHT	SPACING O.C.	350S162-(mils)						362S137-(mils)						362S162-(mils)				
		33 KSI			50 ksi			33 ksi			50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97			
8	12	0.78 a	1.49 a	2.99 a	4.08 a	6.34 a	0.56 b	1.16 a	2.43 a	3.44 a	0.85 a	1.59 a	3.17 a	4.38 a	6.76 a			
	16	0.43 c	1.11 b	2.64 a	3.72 a	5.93 a	0.24 c	0.81 b	2.11 a	3.1 a	0.5 b	1.21 a	2.82 a	4.01 a	6.35 a			
	24		0.42 d	1.98 c	3.05 a	5.16 a		0.18 d	1.52 c	2.47 b		0.52 c	2.16 b	3.32 a	5.58 a			
9	12	0.46 c	1.11 b	2.48 a	3.48 a	5.5 a	0.28 c	0.83 b	2.03 a	2.94 a	0.53 c	1.21 a	2.68 a	3.77 a	5.92 a			
	16	0.07 d	0.69 c	2.08 b	3.06 a	5.02 a		0.44 d	1.66 c	2.55 b	0.13 d	0.78 c	2.27 b	3.34 a	5.44 a			
	24			1.37 d	2.31 c	4.16 b			0.99 d	1.84 d		0.02 d	1.54 d	2.57 c	4.56 a			
10	12	0.17 d	0.74 c	1.99 b	2.88 a	4.65 a	0.02 e	0.51 d	1.62 c	2.44 b	0.23 d	0.84 c	2.18 b	3.15 a	5.06 a			
	16		0.29 d	1.56 d	2.43 c	4.13 a		0.09 e	1.22 d	2.01 c		0.38 d	1.74 c	2.69 b	4.53 a			
	24			0.81 e	1.63 d	3.22 c			0.51 e	1.25 e			0.96 e	1.86 d	3.58 c			
12	12		0.13 e	1.13 e	1.81 d	3.11 c			0.89 e	1.51 d		0.2 e	1.29 d	2.03 d	3.46 b			
	16			0.71 e	1.35 e	2.58 d			0.48 e	1.06 e			0.84 e	1.55 e	2.9 d			
	24				0.56 f	1.67 e				0.29 f			0.05 f	0.71 f	1.94 e			
14	12			0.53 f	1.04 e	1.99 d			0.35 f	0.82 e			0.64 f	1.2 e	2.24 d			
	16			0.13 f	0.6 f	1.49 e				0.39 f			0.2 f	0.73 f	1.71 e			
	24					0.63 f				0.34 f					0.8 f			
16	12			0.13 f	0.51 f	1.21 e							0.19 f	0.62 f	1.39 e			
	16				0.11 f	0.75 f								0.19 f	0.9 f			
	24														0.07 f			

30 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	362S200-(mils)					400S137-(mils)						400S162-(mils)			
		33 ksi		50 ksi			33 ksi		50 ksi		33 ksi		50 ksi			
		33	43	54	68	97	33	43	54	68	33	43	54	68	97	
8	12	1.13 a	2.13 a	4.06 a	5.58 a	8.4 a	0.72 a	1.38 a	2.81 a	4.06 a	1.05 a	1.86 a	3.67 a	5.18 a	7.99 a	
	16	0.74 b	1.71 a	3.65 a	5.18 a	7.97 a	0.4 b	1.04 a	2.5 a	3.72 a	0.7 a	1.5 a	3.32 a	4.81 a	7.58 a	
	24	0.02 d	0.95 b	2.89 a	4.42 a	7.17 a		0.41 c	1.9 b	3.07 a	0.05 c	0.81 b	2.66 a	4.1 a	6.8 a	
9	12	0.76 b	1.68 a	3.44 a	4.84 a	7.41 a	0.44 b	1.06 a	2.43 a	3.63 a	0.73 b	1.49 a	3.2 a	4.6 a	7.19 a	
	16	0.32 c	1.21 b	2.97 a	4.37 a	6.91 a	0.07 d	0.67 c	2.06 a	3.21 a	0.33 c	1.07 b	2.78 a	4.16 a	6.7 a	
	24		0.37 d	2.13 c	3.51 b	5.98 a			1.37 c	2.45 c		0.28 d	2.02 c	3.33 b	5.77 a	
10	12	0.42 c	1.25 b	2.83 a	4.09 a	6.4 a	0.17 d	0.74 c	2.03 b	3.11 a	0.41 c	1.12 b	2.7 a	3.99 a	6.33 a	
	16		0.74 d	2.32 c	3.58 b	5.84 a		0.3 d	1.61 c	2.65 b		0.64 c	2.24 b	3.48 a	5.76 a	
	24			1.43 d	2.66 d	4.83 b			0.85 e	1.81 d			1.4 d	2.57 c	4.73 b	
12	12		0.49 d	1.73 d	2.72 c	4.49 a		0.14 e	1.26 d	2.09 c		0.43 d	1.75 d	2.76 c	4.6 a	
	16			1.21 e	2.19 d	3.9 c			0.79 e	1.58 d			1.25 e	2.2 d	3.96 c	
	24			0.32 f	1.26 e	2.86 d				0.68 e			0.36 f	1.23 e	2.86 d	
14	12			0.92 e	1.69 e	3.03 d			0.62 e	1.24 e			0.98 e	1.73 d	3.11 c	
	16			0.43 f	1.18 e	2.45 e			0.15 f	0.73 f			0.48 f	1.18 e	2.49 d	
	24				0.31 f	1.47 f			0.16 f	0.62 f				0.25 f	1.43 e	
16	12			0.38 f	0.98 f	1.99 e				0.15 f			0.42 f	0.98 e	2.03 e	
	16				0.5 f	1.46 f								0.48 f	1.45 e	
	24					0.54 f									0.46 f	

30 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	400S200-(MILS)					550S162-(mils)					600S137-(mils)				
		33 ksi			50 ksi		33 ksi			50 ksi		33 ksi			50 ksi	
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.35 a	2.46 a	4.68 a	6.55 a	9.9 a	1.64 a	2.68 a	4.96 a	6.81 a	10.68 a	1.19 a	1.95 a	3.34 a	4.59 a	7.16 a
	16	0.97 a	2.06 a	4.28 a	6.14 a	9.48 a	1.35 a	2.41 a	4.7 a	6.55 a	10.42 a	0.97 a	1.73 a	3.15 a	4.4 a	7 a
	24	0.26 c	1.3 a	3.52 a	5.37 a	8.66 a	0.79 a	1.88 a	4.19 a	6.05 a	9.92 a	0.53 a	1.3 a	2.78 a	4.04 a	6.69 a
9	12	0.99 a	2.03 a	4.09 a	5.84 a	8.94 a	1.38 a	2.42 a	4.69 a	6.56 a	10.43 a	1.01 a	1.76 a	3.17 a	4.42 a	7.02 a
	16	0.55 b	1.56 a	3.61 a	5.36 a	8.43 a	1.03 a	2.09 a	4.36 a	6.23 a	10.09 a	0.73 a	1.48 a	2.93 a	4.19 a	6.81 a
	24		0.7 c	2.73 b	4.45 a	7.45 a	0.35 a	1.44 a	3.72 a	5.59 a	9.44 a	0.19 a	0.95 a	2.47 a	3.73 a	6.41 a
10	12	0.64 b	1.59 a	3.47 a	5.1 a	7.92 a	1.1 a	2.14 a	4.34 a	6.26 a	10.12 a	0.8 a	1.55 a	2.98 a	4.23 a	6.85 a
	16	0.15 d	1.07 c	2.94 a	4.54 a	7.33 a	0.69 a	1.74 a	3.94 a	5.85 a	9.7 a	0.47 a	1.22 a	2.69 a	3.94 a	6.59 a
	24		0.13 d	1.98 c	3.54 c	6.24 a		0.97 b	3.18 a	5.07 a	8.88 a		0.58 a	2.12 a	3.37 a	6.09 a
12	12		0.78 d	2.31 c	3.62 b	5.88 a	0.52 b	1.51 a	3.54 a	5.32 a	9.29 a	0.35 b	1.08 a	2.54 a	3.78 a	6.43 a
	16		0.2 e	1.73 d	3.01 c	5.21 b		0.99 b	3.01 a	4.77 a	8.67 a		0.63 b	2.13 a	3.36 a	6.05 a
	24			0.71 e	1.93 e	4.02 d		0.04 d	2.04 c	3.74 b	7.5 a			1.35 c	2.57 b	5.31 a
14	12		0.13 e	1.36 e	2.36 d	4.11 c		0.86 c	2.66 b	4.24 a	7.72 a		0.57 c	2.02 b	3.23 a	5.88 a
	16			0.79 e	1.76 e	3.44 d		0.26 d	2.05 d	3.59 c	6.96 a		0.01 d	1.5 c	2.68 b	5.36 a
	24				0.74 f	2.29 e			0.96 e	2.42 d	5.6 c			0.54 e	1.68 d	4.39 c
16	12			0.68 f	1.45 e	2.79 d		0.28 e	1.84 d	3.18 c	6.11 b		0.05 d	1.47 d	2.61 c	5.22 a
	16			0.14 f	0.89 f	2.17 e			1.19 e	2.48 d	5.29 c			0.85 e	1.95 d	4.57 c
	24					1.09 f			0.07 f	1.26 e	3.86 e				0.79 e	3.39 d

30 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	600S162-(MILS)					600S200-(mils)					800S137-(mils)				
		33 ksi			50 ksi		33 ksi			50 ksi		33 ksi			50 ksi	
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.73 a	2.77 a	5.02 a	6.88 a	10.84 a	2.15 a	3.56 a	6.71 a	9.27 a	14.95 a	1.3 a*	2.03 a	3.25 a	4.44 a	6.94 a
	16	1.47 a	2.53 a	4.79 a	6.65 a	10.62 a	1.88 a	3.27 a	6.42 a	9 a	14.67 a	1.14 a*	1.88 a	3.12 a	4.32 a	6.83 a
	24	0.95 a	2.05 a	4.33 a	6.21 a	10.18 a	1.34 a	2.69 a	5.84 a	8.45 a	14.12 a	0.82 a*	1.57 a	2.87 a	4.08 a	6.6 a
9	12	1.51 a	2.56 a	4.81 a	6.67 a	10.63 a	1.9 a	3.27 a	6.35 a	8.89 a	14.48 a	1.17 a*	1.91 a	3.14 a	4.34 a	6.85 a
	16	1.18 a	2.25 a	4.52 a	6.38 a	10.35 a	1.56 a	2.91 a	5.98 a	8.54 a	14.12 a	0.96 a*	1.71 a	2.98 a	4.19 a	6.7 a
	24	0.54 a	1.65 a	3.94 a	5.81 a	9.78 a	0.9 a	2.2 a	5.26 a	7.85 a	13.42 a	0.56 a*	1.32 a	2.67 a	3.88 a	6.41 a
10	12	1.26 a	2.32 a	4.57 a	6.43 a	10.38 a	1.63 a	2.96 a	5.94 a	8.45 a	13.92 a	1.02 a*	1.76 a	3.03 a	4.23 a	6.74 a
	16	0.86 a	1.94 a	4.2 a	6.06 a	10.02 a	1.22 a	2.51 a	5.49 a	8.02 a	13.47 a	0.77 a*	1.52 a	2.83 a	4.03 a	6.55 a
	24	0.11 b	1.22 a	3.5 a	5.36 a	9.31 a	0.44 a	1.67 a	4.62 a	7.18 a	12.6 a	0.28 a*	1.04 a	2.43 a	3.65 a	6.19 a
12	12	0.7 a	1.75 a	3.94 a	5.82 a	9.74 a	1.03 a	2.24 a	4.98 a	7.37 a	12.5 a	0.68 a*	1.43 a	2.74 a	3.95 a	6.47 a
	16	0.19 c	1.24 a	3.43 a	5.3 a	9.19 a	0.5 b	1.66 a	4.37 a	6.77 a	11.86 a	0.33 a*	1.09 a	2.46 a	3.67 a	6.2 a
	24		0.31 c	2.47 b	4.31 a	8.15 a		0.57 c	3.24 b	5.65 a	10.66 a		0.42 a	1.9 a	3.13 a	5.67 a
14	12	0.14 c	1.12 b	3.11 a	4.87 a	8.83 a	0.42 c	1.48 a	3.92 a	6.13 a	10.78 a	0.29 a*	1.04 a	2.41 a	3.62 a	6.14 a
	16		0.52 d	2.5 c	4.21 a	8.09 a		0.79 c	3.19 b	5.39 a	9.97 a		0.59 a	2.02 a	3.24 a	5.77 a
	24			1.38 d	3.02 c	6.74 b			1.88 d	4.06 c	8.49 a			1.28 b	2.51 a	5.05 a
16	12		0.51 d	2.28 c	3.82 b	7.28 a		0.77 c	2.88 b	4.85 a	8.92 a		0.61 a	2.02 a	3.22 a	5.74 a
	16			1.6 d	3.09 c	6.44 b		0.01 d	2.09 d	4.03 c	8.01 a		0.06 c	1.53 b	2.74 a	5.25 a
	24			0.4 e	1.8 e	4.95 d			0.7 e	2.59 d	6.38 c			0.61 d	1.81 c	4.32 a

WALL HEIGHT	SPACING O.C.	30 PSF LATERAL LOAD										
		800S162-(MILS)						800S200-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			
		33	43	54	68	97	33	43	54	68	97	
8	12	1.9a*	2.89a	5.01a	6.84a	10.86a	2.44a*	3.93a	7.21a	9.8a	15.52a	
	16	1.71a*	2.7a	4.84a	6.67a	10.7a	2.23a*	3.71a	6.99a	9.6a	15.33a	
	24	1.33a*	2.33a	4.5a	6.34a	10.38a	1.82a*	3.28a	6.57a	9.22a	14.96a	
9	12	1.75a*	2.73a	4.87a	6.69a	10.72a	2.27a*	3.74a	7.02a	9.63a	15.35a	
	16	1.5a*	2.5a	4.65a	6.49a	10.51a	2.01a*	3.47a	6.75a	9.38a	15.11a	
	24	1.02a*	2.03a	4.22a	6.07a	10.1a	1.49a*	2.92a	6.21a	8.88a	14.64a	
10	12	1.57a*	2.56a	4.7a	6.53a	10.56a	2.07a*	3.54a	6.81a	9.43a	15.16a	
	16	1.27a*	2.27a	4.44a	6.27a	10.3a	1.75a*	3.2a	6.47a	9.12a	14.86a	
	24	0.68a*	1.7a	3.91a	5.75a	9.79a	1.12a*	2.53a	5.8a	8.5a	14.26a	
12	12	1.16a*	2.15a	4.31a	6.15a	10.17a	1.63a*	3.05a	6.3a	8.95a	14.68a	
	16	0.74a*	1.74a	3.93a	5.76a	9.78a	1.17a*	2.57a	5.81a	8.49a	14.23a	
	24		0.95a	3.17a	5.02a	9.03a	0.31a*	1.64a	4.85a	7.59a	13.34a	
14	12	0.69a*	1.68a	3.84a	5.67a	9.66a	1.1a*	2.46a	5.59a	8.29a	14.05a	
	16	0.15b*	1.14a	3.32a	5.14a	9.13a	0.52a*	1.83a	4.94a	7.66a	13.41a	
	24		0.12b	2.33a	4.14a	8.09a		0.64a	3.69a	6.45a	12.18a	
16	12	0.19b*	1.15a	3.29a	5.09a	9.04a	0.54a*	1.79a	4.71a	7.3a	12.92a	
	16		0.49b	2.63a	4.42a	8.34a		1.03a	3.91a	6.52a	12.09a	
	24			1.41c	3.16b	7a			2.44b	5.06a	10.53a	

35 PSF LATERAL LOAD															
WALL HEIGHT	SPACING O.C.	350S162--(mils)					362S137--(mils)					362S162--(mils)			
		33 KSI		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi	
		33	43	54	68	97	33	43	54	68	33	43	54	68	97
8	12	0.6 b	1.3 a	2.81 a	3.9 a	6.13 a	0.4 b	0.98 a	2.27 a	3.27 a	0.67 b	1.4 a	2.99 a	4.19 a	6.55 a
	16	0.2 d	0.87 b	2.41 a	3.49 a	5.67 a	0.03 d	0.59 c	1.91 b	2.88 a	0.27 c	0.98 b	2.59 a	3.77 a	6.09 a
	24		0.11 d	1.68 c	2.73 b	4.8 a			1.24 d	2.17 c		0.2 d	1.85 c	3 b	5.21 a
9	12	0.26 d	0.89 c	2.28 b	3.27 a	5.26 a	0.1 d	0.63 c	1.84 b	2.74 a	0.33 c	0.99 b	2.47 a	3.55 a	5.68 a
	16		0.42 d	1.83 c	2.8 b	4.73 a		0.19 d	1.43 c	2.3 b		0.52 d	2.02 c	3.07 b	5.14 a
	24			1.04 e	1.96 d	3.76 c			0.68 e	1.51 d			1.2 d	2.2 d	4.15 b
10	12		0.51 d	1.77 c	2.65 b	4.39 a		0.29 d	1.42 c	2.22 c	0.01 e	0.6 d	1.96 c	2.92 b	4.79 a
	16		0.01 e	1.3 d	2.15 d	3.82 b			0.97 d	1.74 d		0.09 e	1.47 d	2.4 c	4.2 b
	24			0.47 e	1.27 e	2.8 d			0.19 e	0.9 e			0.61 e	1.48 e	3.15 d
12	12			0.91 e	1.58 d	2.84 c			0.68 e	1.28 e			1.06 e	1.78 d	3.17 c
	16			0.44 f	1.07 e	2.26 d			0.22 f	0.79 e			0.56 e	1.25 e	2.56 d
	24				0.21 f	1.26 e			0.15 f	0.6 f				0.34 f	1.51 e
14	12			0.32 f	0.82 f	1.73 e				0.13 f			0.41 f	0.96 e	1.97 e
	16				0.34 f	1.18 f				0.13 f				0.45 f	1.39 e
	24					0.25 f									0.4 f
16	12				0.3 f	0.97 f								0.39 f	1.14 f
	16					0.47 f									0.61 f
	24														

35 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	362S200-(mils)					400S137-(mils)					400S162-(mils)				
		33 KSI		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97	
8	12	0.93 a	1.92 a	3.85 a	5.38 a	8.18 a	0.56 a	1.21 a	2.65 a	3.89 a	0.87 a	1.68 a	3.49 a	4.99 a	7.79 a	
	16	0.49 b	1.45 a	3.39 a	4.92 a	7.7 a	0.2 c	0.83 a	2.29 a	3.5 a	0.47 b	1.26 a	3.09 a	4.57 a	7.32 a	
	24		0.6 c	2.54 b	4.07 a	6.78 a		0.11 c	1.62 c	2.77 a		0.49 c	2.34 b	3.76 a	6.43 a	
9	12	0.54 c	1.44 a	3.2 a	4.6 a	7.16 a	0.25 c	0.86 b	2.24 a	3.42 a	0.52 b	1.28 a	2.99 a	4.38 a	6.94 a	
	16	0.05 d	0.92 c	2.68 b	4.07 a	6.59 a		0.42 c	1.82 b	2.95 a	0.07 d	0.79 c	2.52 a	3.87 a	6.38 a	
	24			1.74 d	3.12 c	5.54 a			1.05 d	2.09 c			1.66 c	2.94 c	5.34 a	
10	12	0.17 d	0.99 c	2.57 b	3.83 a	6.11 a		0.51 c	1.82 b	2.87 a	0.19 d	0.88 c	2.47 b	3.73 a	6.04 a	
	16		0.42 d	2.01 c	3.26 b	5.49 a		0.02 d	1.35 d	2.35 c		0.35 d	1.95 c	3.17 b	5.41 a	
	24			1.02 e	2.24 d	4.37 c			0.5 e	1.42 d			1.02 e	2.15 d	4.26 c	
12	12		0.21 e	1.46 d	2.45 d	4.19 b			1.02 e	1.82 d		0.16 e	1.49 d	2.47 c	4.27 b	
	16			0.9 e	1.86 e	3.54 d			0.5 e	1.26 e			0.93 e	1.86 d	3.58 c	
	24				0.84 f	2.39 e				0.28 f				0.79 e	2.36 e	
14	12			0.67 e	1.43 e	2.73 d			0.38 f	0.98 e			0.72 e	1.45 e	2.79 d	
	16			0.14 f	0.87 f	2.11 e				0.43 f			0.17 f	0.85 f	2.12 e	
	24					1.03 f									0.96 f	
16	12			0.14 f	0.73 f	1.72 e				0.38 f			0.18 f	0.72 f	1.73 e	
	16				0.21 f	1.13 f								0.17 f	1.1 f	
	24					0.14 f									0.03 f	

35 PSF LATERAL LOAD																			
WALL HEIGHT	SPACING O.C.	400S200-(MILS)						550S162-(mils)						600S137-(mils)					
		33 ksi			50 ksi			33 ksi			50 ksi			33 ksi			50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97			
8	12	1.16 a	2.26 a	4.48 a	6.34 a	9.69 a	1.49 a	2.54 a	4.83 a	6.68 a	10.55 a	1.08 a	1.84 a	3.24 a	4.49 a	7.08 a			
	16	0.72 a	1.8 a	4.02 a	5.88 a	9.2 a	1.16 a	2.23 a	4.53 a	6.38 a	10.25 a	0.82 a	1.58 a	3.03 a	4.28 a	6.9 a			
	24		0.95 b	3.15 a	5 a	8.26 a	0.52 a	1.63 a	3.94 a	5.8 a	9.67 a	0.32 a	1.09 a	2.6 a	3.86 a	6.53 a			
9	12	0.77 b	1.79 a	3.84 a	5.6 a	8.68 a	1.2 a	2.25 a	4.53 a	6.4 a	10.26 a	0.87 a	1.62 a	3.05 a	4.31 a	6.92 a			
	16	0.27 c	1.26 b	3.31 a	5.04 a	8.09 a	0.8 a	1.87 a	4.15 a	6.02 a	9.87 a	0.55 a	1.3 a	2.78 a	4.03 a	6.68 a			
	24		0.3 d	2.32 c	4.03 b	6.99 a	0.03 b	1.13 a	3.41 a	5.28 a	9.12 a		0.69 a	2.24 a	3.5 a	6.21 a			
10	12	0.39 c	1.33 b	3.2 a	4.81 a	7.62 a	0.89 a	1.93 a	4.14 a	6.06 a	9.91 a	0.63 a	1.38 a	2.84 a	4.09 a	6.72 a			
	16		0.74 c	2.61 b	4.2 a	6.95 a	0.42 b	1.48 a	3.69 a	5.59 a	9.42 a	0.25 a	1 a	2.5 a	3.75 a	6.42 a			
	24			1.54 d	3.08 c	5.73 b		0.61 b	2.82 a	4.69 a	8.48 a		0.27 b	1.84 a	3.09 a	5.84 a			
12	12		0.49 d	2.01 c	3.3 c	5.54 a	0.25 c	1.24 b	3.27 a	5.04 a	8.98 a	0.13 c	0.85 a	2.33 a	3.57 a	6.24 a			
	16			1.37 d	2.63 d	4.79 b		0.66 c	2.68 b	4.41 a	8.27 a		0.34 c	1.86 b	3.09 a	5.8 a			
	24			0.26 e	1.45 e	3.48 d			1.59 d	3.26 c	6.95 a			0.98 d	2.19 c	4.96 a			
14	12			1.06 e	2.05 d	3.76 c		0.56 d	2.35 c	3.91 b	7.33 a		0.28 d	1.75 c	2.95 a	5.62 a			
	16			0.44 f	1.4 e	3.03 d			1.67 d	3.18 c	6.49 b			1.16 d	2.33 c	5.03 a			
	24				0.28 f	1.77 e			0.47 e	1.88 e	4.98 d			0.1 e	1.21 d	3.94 c			
16	12			0.4 f	1.16 e	2.47 e			1.5 d	2.82 d	5.69 b			1.15 d	2.27 c	4.89 b			
	16				0.55 f	1.79 e			0.79 e	2.05 e	4.79 d			0.47 e	1.55 d	4.16 c			
	24					0.62 f				0.72 f	3.22 e				0.27 e	2.86 e			

35 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	600S162-(MILS)					600S200-(mils)					800S137-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.6 a	2.65 a	4.9 a	6.76 a	10.73 a	2.01 a	3.41 a	6.56 a	9.13 a	14.81 a	1.22 a*	1.96 a	3.19 a	4.38 a	6.89 a
	16	1.3 a	2.36 a	4.64 a	6.5 a	10.47 a	1.7 a	3.07 a	6.22 a	8.81 a	14.49 a	1.03 a*	1.78 a	3.04 a	4.24 a	6.75 a
	24	0.7 a	1.81 a	4.11 a	5.99 a	9.97 a	1.07 a	2.41 a	5.55 a	8.18 a	13.85 a	0.66 a*	1.42 a	2.75 a	3.96 a	6.49 a
9	12	1.34 a	2.4 a	4.66 a	6.52 a	10.49 a	1.73 a	3.09 a	6.17 a	8.72 a	14.3 a	1.06 a*	1.81 a	3.06 a	4.26 a	6.77 a
	16	0.96 a	2.05 a	4.32 a	6.19 a	10.16 a	1.34 a	2.67 a	5.74 a	8.31 a	13.89 a	0.83 a*	1.58 a	2.88 a	4.08 a	6.6 a
	24	0.24 a	1.36 a	3.66 a	5.53 a	9.5 a	0.58 a	1.85 a	4.9 a	7.52 a	13.07 a	0.36 a*	1.13 a	2.51 a	3.73 a	6.26 a
10	12	1.06 a	2.13 a	4.38 a	6.24 a	10.2 a	1.42 a	2.73 a	5.71 a	8.23 a	13.69 a	0.89 a*	1.64 a	2.93 a	4.13 a	6.65 a
	16	0.61 a	1.7 a	3.96 a	5.82 a	9.78 a	0.95 a	2.23 a	5.19 a	7.73 a	13.18 a	0.6 a*	1.36 a	2.69 a	3.91 a	6.43 a
	24		0.88 a	3.15 a	5.02 a	8.96 a	0.07 b	1.26 a	4.2 a	6.77 a	12.18 a	0.03 a*	0.81 a	2.24 a	3.47 a	6.01 a
12	12	0.44 b	1.49 a	3.68 a	5.56 a	9.46 a	0.76 a	1.94 a	4.67 a	7.07 a	12.18 a	0.5 a*	1.26 a	2.6 a	3.81 a	6.34 a
	16		0.92 b	3.1 a	4.96 a	8.84 a	0.16 c	1.28 a	3.98 a	6.39 a	11.45 a	0.1 a*	0.86 a	2.27 a	3.49 a	6.03 a
	24			2.03 c	3.84 b	7.66 a		0.06 c	2.7 b	5.12 a	10.08 a		0.1 a	1.62 a	2.86 a	5.41 a
14	12		0.81 c	2.8 b	4.54 a	8.45 a	0.1 c	1.13 b	3.55 a	5.75 a	10.37 a	0.07 b*	0.81 a	2.21 a	3.43 a	5.95 a
	16		0.14 d	2.11 c	3.8 b	7.62 a		0.36 d	2.74 c	4.93 b	9.46 a		0.3 b	1.77 a	2.99 a	5.53 a
	24			0.87 e	2.48 d	6.11 c			1.28 d	3.44 d	7.8 b			0.92 c	2.15 a	4.7 a
16	12		0.17 d	1.93 d	3.45 c	6.85 a		0.38 d	2.48 c	4.43 b	8.46 a		0.33 b	1.77 a	2.98 a	5.49 a
	16			1.18 e	2.64 d	5.92 c			1.6 d	3.53 c	7.44 b			1.22 c	2.42 a	4.94 a
	24				1.22 e	4.28 d			0.08 e	1.94 e	5.64 d			0.18 d	1.37 c	3.87 b

35 PSF LATERAL LOAD												
WALL HEIGHT	SPACING O.C.	800S162-(MILS)						800S200-(mils)				
		33 ksi			50 ksi			33 ksi			50 ksi	
		33	43	54	68	97	33	43	54	68	97	
8	12	1.81 a*	2.79 a	4.92 a	6.75 a	10.78 a	2.34 a*	3.82 a	7.1 a	9.7 a	15.42 a	
	16	1.58 a*	2.58 a	4.73 a	6.56 a	10.59 a	2.1 a*	3.57 a	6.85 a	9.47 a	15.21 a	
	24	1.14 a*	2.15 a	4.34 a	6.18 a	10.22 a	1.62 a*	3.07 a	6.36 a	9.02 a	14.78 a	
9	12	1.62 a*	2.61 a	4.76 a	6.59 a	10.62 a	2.14 a*	3.61 a	6.89 a	9.5 a	15.23 a	
	16	1.34 a*	2.34 a	4.51 a	6.35 a	10.38 a	1.83 a*	3.29 a	6.57 a	9.21 a	14.95 a	
	24	0.78 a*	1.8 a	4.01 a	5.86 a	9.9 a	1.23 a*	2.66 a	5.94 a	8.64 a	14.4 a	
10	12	1.42 a*	2.41 a	4.57 a	6.4 a	10.43 a	1.91 a*	3.37 a	6.64 a	9.28 a	15.01 a	
	16	1.07 a*	2.08 a	4.26 a	6.1 a	10.13 a	1.54 a*	2.97 a	6.25 a	8.91 a	14.66 a	
	24	0.4 a*	1.42 a	3.65 a	5.5 a	9.53 a	0.81 a*	2.2 a	5.47 a	8.2 a	13.96 a	
12	12	0.95 a*	1.94 a	4.12 a	5.95 a	9.97 a	1.4 a*	2.81 a	6.05 a	8.72 a	14.45 a	
	16	0.47 a*	1.47 a	3.67 a	5.51 a	9.53 a	0.88 a*	2.26 a	5.48 a	8.19 a	13.93 a	
	24		0.56 a	2.81 a	4.65 a	8.66 a		1.18 a	4.38 a	7.15 a	12.9 a	
14	12	0.42 a*	1.4 a	3.58 a	5.4 a	9.39 a	0.81 a*	2.14 a	5.26 a	7.97 a	13.73 a	
	16		0.79 a	2.98 a	4.8 a	8.78 a	0.15 b*	1.42 a	4.51 a	7.25 a	13 a	
	24			1.85 b	3.66 a	7.59 a		0.08 b	3.1 a	5.88 a	11.58 a	
16	12		0.81 b	2.96 a	4.75 a	8.69 a	0.19 b*	1.41 a	4.3 a	6.91 a	12.5 a	
	16		0.07 c	2.22 b	3.99 a	7.88 a		0.55 b	3.4 a	6.02 a	11.56 a	
	24			0.84 d	2.57 c	6.36 a			1.75 c	4.37 b	9.79 a	

40 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	350S162-(mils)					362S137-(mils)					362S162-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.43 c	1.11 b	2.64 a	3.72 a	5.93 a	0.24 c	0.81 b	2.11 a	3.1 a	0.5 b	1.21 a	2.82 a	4.01 a	6.35 a	
	16		0.65 c	2.19 b	3.26 a	5.41 a		0.38 c	1.71 b	2.67 a	0.06 d	0.75 c	2.37 b	3.54 a	5.83 a	
	24		1.39 d	2.42 c	4.45 a				0.97 d	1.88 c			1.56 d	2.68 c	4.85 a	
9	12	0.07 d	0.69 c	2.08 b	3.06 a	5.02 a		0.44 d	1.66 c	2.55 b	0.13 d	0.78 c	2.27 b	3.34 a	5.44 a	
	16		0.17 d	1.6 d	2.55 c	4.44 a			1.21 d	2.07 c		0.26 d	1.77 c	2.82 b	4.84 a	
	24			0.72 e	1.63 d	3.38 c			0.39 e	1.19 e			0.87 e	1.86 d	3.75 c	
10	12		0.29 d	1.56 d	2.43 c	4.13 a		0.09 e	1.22 d	2.01 c		0.38 d	1.74 c	2.69 b	4.53 a	
	16			1.05 e	1.89 d	3.51 c			0.74 e	1.49 d			1.21 d	2.12 d	3.89 b	
	24			0.15 f	0.93 e	2.4 d				0.57 e			0.27 e	1.12 e	2.73 d	
12	12			0.71 e	1.35 e	2.58 d			0.48 e	1.06 e			0.84 e	1.55 e	2.9 d	
	16			0.2 f	0.81 e	1.96 e				0.53 f			0.3 f	0.98 e	2.24 e	
	24					0.87 f									1.1 f	
14	12			0.13 f	0.6 f	1.49 e				0.39 f			0.2 f	0.73 f	1.71 e	
	16				0.09 f	0.9 f								0.19 f	1.09 f	
	24														0.02 f	
16	12				0.11 f	0.75 f								0.19 f	0.9 f	
	16					0.21 f									0.33 f	
	24															

40 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	362S200-(mils)					400S137-(mils)					400S162-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.74 b	1.71 a	3.65 a	5.18 a	7.97 a	0.4 b	1.04 a	2.5 a	3.72 a	0.7 a	1.5 a	3.32 a	4.81 a	7.58 a	
	16	0.25 c	1.2 b	3.14 a	4.67 a	7.43 a		0.61 b	2.1 a	3.29 a	0.26 c	1.03 a	2.87 a	4.33 a	7.06 a	
	24		0.26 d	2.19 c	3.72 b	6.41 a			1.34 c	2.47 b		0.17 c	2.04 b	3.44 a	6.06 a	
9	12	0.32 c	1.21 b	2.97 a	4.37 a	6.91 a	0.07 d	0.67 c	2.06 a	3.21 a	0.33 c	1.07 b	2.78 a	4.16 a	6.7 a	
	16		0.64 c	2.4 c	3.79 a	6.28 a		0.18 d	1.59 c	2.7 b		0.53 c	2.26 b	3.6 a	6.07 a	
	24			1.36 d	2.74 c	5.12 b			0.74 d	1.75 d			1.32 d	2.57 c	4.92 b	
10	12		0.74 d	2.32 c	3.58 b	5.84 a		0.3 d	1.61 c	2.65 b		0.64 c	2.24 b	3.48 a	5.76 a	
	16		0.13 e	1.71 d	2.95 c	5.15 a			1.09 d	2.07 c		0.06 d	1.67 d	2.86 c	5.06 a	
	24			0.64 e	1.85 e	3.92 c			0.17 e	1.05 e			0.66 e	1.75 d	3.8 c	
12	12		1.21 e	2.19 d	3.9 c				0.79 e	1.58 d			1.25 e	2.2 d	3.96 c	
	16			0.6 e	1.55 e	3.19 d			0.23 f	0.96 e			0.64 e	1.54 e	3.21 d	
	24				0.45 f	1.95 e								0.38 f	1.89 e	
14	12			0.43 f	1.18 e	2.45 e			0.15 f	0.73 f			0.48 f	1.18 e	2.49 d	
	16				0.58 f	1.78 e				0.14 f				0.54 f	1.76 e	
	24					0.62 f									0.51 f	
16	12				0.5 f	1.46 f				0.15 f				0.48 f	1.45 e	
	16					0.83 f									0.77 f	
	24															

40 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	400S200-(MILS)					550S162-(mils)					600S137-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.97 a	2.06 a	4.28 a	6.14 a	9.48 a	1.35 a	2.41 a	4.7 a	6.55 a	10.42 a	0.97 a	1.73 a	3.15 a	4.4 a	7 a
	16	0.49 b	1.55 a	3.76 a	5.62 a	8.93 a	0.98 a	2.06 a	4.36 a	6.22 a	10.09 a	0.68 a	1.44 a	2.9 a	4.16 a	6.79 a
	24		0.61 c	2.8 b	4.64 a	7.88 a	0.26 a	1.37 a	3.7 a	5.56 a	9.42 a	0.11 a	0.88 a	2.42 a	3.68 a	6.38 a
9	12	0.55 b	1.56 a	3.61 a	5.36 a	8.43 a	1.03 a	2.09 a	4.36 a	6.23 a	10.09 a	0.73 a	1.48 a	2.93 a	4.19 a	6.81 a
	16		0.97 b	3.01 a	4.74 a	7.77 a	0.57 a	1.65 a	3.93 a	5.81 a	9.66 a	0.37 a	1.13 a	2.62 a	3.88 a	6.54 a
	24			1.93 c	3.62 b	6.55 a		0.82 a	3.11 a	4.98 a	8.8 a		0.43 a	2.01 a	3.27 a	6.01 a
10	12	0.15 d	1.07 c	2.94 a	4.54 a	7.33 a	0.69 a	1.74 a	3.94 a	5.85 a	9.7 a	0.47 a	1.22 a	2.69 a	3.94 a	6.59 a
	16		0.43 d	2.29 c	3.86 b	6.59 a	0.16 b	1.22 a	3.43 a	5.33 a	9.15 a	0.04 b	0.79 a	2.31 a	3.56 a	6.25 a
	24			1.13 d	2.64 d	5.25 b		0.26 c	2.46 b	4.32 a	8.09 a			1.57 b	2.82 a	5.59 a
12	12		0.2 e	1.73 d	3.01 c	5.21 b		0.99 b	3.01 a	4.77 a	8.67 a		0.63 b	2.13 a	3.36 a	6.05 a
	16			1.03 e	2.27 d	4.4 c		0.34 d	2.35 c	4.07 b	7.88 a		0.06 c	1.6 b	2.82 a	5.55 a
	24				1 e	2.97 e			1.16 d	2.8 d	6.43 b			0.63 d	1.82 c	4.62 b
14	12			0.79 e	1.76 e	3.44 d		0.26 d	2.05 d	3.59 c	6.96 a		0.01 d	1.5 c	2.68 b	5.36 a
	16			0.12 f	1.06 e	2.65 e			1.31 e	2.79 d	6.03 c			0.85 d	2 d	4.71 b
	24					1.29 f				1.38 e	4.39 d				0.77 e	3.5 d
16	12			0.14 f	0.89 f	2.17 e			1.19 e	2.48 d	5.29 c			0.85 e	1.95 d	4.57 c
	16				0.24 f	1.43 f			0.42 f	1.65 e	4.31 d			0.11 e	1.16 e	3.77 d
	24					0.17 f				0.2 f	2.62 e					2.35 e

40 PSF LATERAL LOAD																	
WALL HEIGHT	SPACING O.C.	600S162-(MILS)					600S200-(mils)					800S137-(mils)					
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi			
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97	
8	12	1.47 a	2.53 a	4.79 a	6.65 a	10.62 a	1.88 a	3.27 a	6.42 a	9 a	14.67 a	1.14 a*	1.88 a	3.12 a	4.32 a	6.83 a	
	16	1.12 a	2.2 a	4.48 a	6.35 a	10.33 a	1.52 a	2.88 a	6.03 a	8.63 a	14.3 a	0.92 a*	1.67 a	2.96 a	4.16 a	6.68 a	
	24	0.45 a	1.58 a	3.89 a	5.77 a	9.75 a	0.81 a	2.13 a	5.27 a	7.92 a	13.58 a	0.5 a*	1.26 a	2.62 a	3.84 a	6.37 a	
9	12	1.18 a	2.25 a	4.52 a	6.38 a	10.35 a	1.56 a	2.91 a	5.98 a	8.54 a	14.12 a	0.96 a*	1.71 a	2.98 a	4.19 a	6.7 a	
	16	0.75 a	1.85 a	4.13 a	6 a	9.97 a	1.12 a	2.43 a	5.49 a	8.08 a	13.65 a	0.69 a*	1.45 a	2.77 a	3.98 a	6.51 a	
	24		1.07 a	3.38 a	5.26 a	9.22 a	0.27 a	1.51 a	4.55 a	7.18 a	12.73 a	0.16 a*	0.94 a	2.35 a	3.58 a	6.12 a	
10	12	0.86 a	1.94 a	4.2 a	6.06 a	10.02 a	1.22 a	2.51 a	5.49 a	8.02 a	13.47 a	0.77 a*	1.52 a	2.83 a	4.03 a	6.55 a	
	16	0.36 a	1.46 a	3.73 a	5.59 a	9.54 a	0.69 a	1.94 a	4.9 a	7.45 a	12.89 a	0.44 a*	1.2 a	2.56 a	3.78 a	6.31 a	
	24		0.54 b	2.82 a	4.68 a	8.61 a		0.86 a	3.78 a	6.37 a	11.76 a		0.58 a	2.04 a	3.28 a	5.83 a	
12	12	0.19 c	1.24 a	3.43 a	5.3 a	9.19 a	0.5 b	1.66 a	4.37 a	6.77 a	11.86 a	0.33 a*	1.09 a	2.46 a	3.67 a	6.2 a	
	16		0.61 c	2.78 b	4.63 a	8.49 a			0.92 b	3.6 a	6.01 a	11.05 a		0.64 a	2.08 a	3.31 a	5.85 a
	24			1.59 d	3.39 c	7.17 a			2.19 c	4.6 b	9.52 a			1.35 a	2.59 a	5.15 a	
14	12		0.52 d	2.5 c	4.21 a	8.09 a		0.79 c	3.19 b	5.39 a	9.97 a		0.59 a	2.02 a	3.24 a	5.77 a	
	16			1.74 d	3.41 c	7.17 a			2.3 c	4.48 b	8.96 a		0.02 b	1.52 a	2.75 a	5.29 a	
	24			0.38 e	1.95 d	5.51 c			0.71 e	2.85 d	7.15 c			0.57 c	1.8 b	4.35 a	
16	12			1.6 d	3.09 c	6.44 b		0.01 d	2.09 d	4.03 c	8.01 a		0.06 c	1.53 b	2.74 a	5.25 a	
	16			0.78 e	2.21 d	5.43 c			1.14 e	3.05 d	6.9 c			0.91 c	2.11 b	4.63 a	
	24				0.67 e	3.65 e				1.32 e	4.94 d				0.95 d	3.44 c	

40 PSF LATERAL LOAD												
WALL HEIGHT	SPACING O.C.	800S162-(MILS)						800S200-(mils)				
		33 ksi		50 ksi				33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	
8	12	1.71 a*	2.7 a	4.84 a	6.67 a	10.7 a	2.23 a*	3.71 a	6.99 a	9.6 a	15.33 a	
	16	1.46 a*	2.45 a	4.62 a	6.45 a	10.49 a	1.96 a*	3.42 a	6.71 a	9.34 a	15.08 a	
	24	0.95 a*	1.97 a	4.17 a	6.02 a	10.06 a	1.42 a*	2.85 a	6.15 a	8.83 a	14.59 a	
9	12	1.5 a*	2.5 a	4.65 a	6.49 a	10.51 a	2.01 a*	3.47 a	6.75 a	9.38 a	15.11 a	
	16	1.18 a*	2.19 a	4.37 a	6.21 a	10.24 a	1.66 a*	3.11 a	6.39 a	9.05 a	14.79 a	
	24	0.55 a*	1.57 a	3.8 a	5.66 a	9.69 a	0.98 a*	2.39 a	5.68 a	8.39 a	14.16 a	
10	12	1.27 a*	2.27 a	4.44 a	6.27 a	10.3 a	1.75 a*	3.2 a	6.47 a	9.12 a	14.86 a	
	16	0.88 a*	1.89 a	4.08 a	5.93 a	9.96 a	1.33 a*	2.75 a	6.02 a	8.71 a	14.46 a	
	24	0.11 a*	1.14 a	3.39 a	5.24 a	9.28 a	0.51 a*	1.88 a	5.14 a	7.89 a	13.67 a	
12	12	0.74 a*	1.74 a	3.93 a	5.76 a	9.78 a	1.17 a*	2.57 a	5.81 a	8.49 a	14.23 a	
	16	0.2 a*	1.21 a	3.42 a	5.26 a	9.28 a	0.59 a*	1.94 a	5.16 a	7.89 a	13.63 a	
	24		0.18 a	2.45 a	4.29 a	8.29 a		0.74 a	3.92 a	6.72 a	12.47 a	
14	12	0.15 b*	1.14 a	3.32 a	5.14 a	9.13 a	0.52 a*	1.83 a	4.94 a	7.66 a	13.41 a	
	16		0.45 b	2.65 a	4.47 a	8.43 a		1.03 a	4.1 a	6.85 a	12.58 a	
	24			1.39 c	3.19 a	7.1 a			2.52 b	5.31 a	11 a	
16	12		0.49 b	2.63 a	4.42 a	8.34 a		1.03 a	3.91 a	6.52 a	12.09 a	
	16			1.81 c	3.57 a	7.44 a		0.09 c	2.91 b	5.53 a	11.04 a	
	24			0.29 d	2 c	5.75 b			1.09 d	3.71 c	9.08 a	

50 PSF LATERAL LOAD															
WALL HEIGHT	SPACING O.C.	350S162-(mils)					362S137-(mils)					362S162-(mils)			
		33 ksi		50 ksi			33 ksi		50 ksi		33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97
8	12	0.09 d	0.76 c	2.3 b	3.38 a	5.54 a		0.49 c	1.81 b	2.78 a	0.16 c	0.86 b	2.48 a	3.66 a	5.96 a
	16		0.21 d	1.78 c	2.83 b	4.92 a			1.33 c	2.27 b		0.31 d	1.96 c	3.1 b	5.33 a
	24			0.83 e	1.84 d	3.78 c			0.46 e	1.33 d			0.99 d	2.08 d	4.17 b
9	12		0.29 d	1.71 c	2.68 b	4.58 a		0.07 d	1.32 d	2.18 c		0.39 d	1.89 c	2.94 b	4.99 a
	16			1.14 d	2.08 d	3.89 b			0.78 e	1.61 d			1.31 d	2.32 c	4.28 b
	24			0.14 e	1 e	2.65 d				0.59 e			0.27 e	1.21 e	3.01 d
10	12			1.17 d	2.02 d	3.66 c			0.85 e	1.61 d			1.34 d	2.26 c	4.04 b
	16			0.58 e	1.39 e	2.93 d			0.29 e	1.01 e			0.72 e	1.61 d	3.29 c
	24				0.29 f	1.66 e								0.45 e	1.96 e
12	12			0.32 f	0.94 e	2.11 e			0.1 f	0.66 e			0.43 f	1.11 e	2.4 d
	16				0.32 f	1.39 e				0.06 f				0.46 f	1.65 e
	24					0.16 f									0.34 f
14	12				0.21 f	1.04 f				0.01 f				0.32 f	1.24 f
	16					0.37 f									
	24														0.53 f
16	12					0.34 f									0.47 f
	16														
	24														

50 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	362S200-(mils)					400S137-(mils)					400S162-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	33	43	54	68	97	
8	12	0.37 c	1.33 a	3.26 a	4.79 a	7.56 a	0.1 c	0.72 b	2.19 a	3.39 a	0.37 b	1.15 a	2.98 a	4.45 a	7.19 a	
	16		0.72 c	2.65 b	4.18 a	6.91 a		0.21 c	1.71 b	2.87 a		0.59 c	2.45 a	3.87 a	6.55 a	
	24			1.54 d	3.06 c	5.69 a			0.82 d	1.9 c			1.46 c	2.81 c	5.35 a	
9	12		0.78 c	2.54 b	3.93 a	6.43 a		0.29 d	1.7 c	2.82 b		0.66 c	2.39 b	3.73 a	6.22 a	
	16		0.1 d	1.86 d	3.25 c	5.68 a			1.15 d	2.21 c		0.04 d	1.78 c	3.07 b	5.48 a	
	24			0.67 e	2.02 d	4.33 c			0.15 e	1.11 e			0.68 e	1.87 d	4.12 c	
10	12		0.27 d	1.86 d	3.1 c	5.32 a			1.22 d	2.21 c		0.2 d	1.81 c	3.01 b	5.23 a	
	16			1.15 e	2.38 d	4.52 c			0.62 e	1.55 d			1.15 d	2.29 d	4.41 b	
	24				1.11 e	3.09 d				0.37 e				1 e	2.95 d	
12	12			0.74 e	1.7 e	3.36 d			0.37 e	1.11 e			0.78 e	1.69 e	3.39 d	
	16			0.05 f	0.98 e	2.55 e				0.41 f			0.09 f	0.93 e	2.52 e	
	24					1.13 f									1.01 f	
14	12				0.72 f	1.94 e				0.28 f			0.03 f	0.7 f	1.94 e	
	16				0.05 f	1.17 f									1.11 f	
	24															
16	12				0.08 f	0.98 f								0.02 f	0.94 f	
	16					0.27 f									0.17 f	
	24															

50 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	400S200-(MILS)					550S162-(mils)					600S137-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	0.6 b	1.67 a	3.89 a	5.75 a	9.06 a	1.07 a	2.14 a	4.44 a	6.3 a	10.17 a	0.75 a	1.51 a	2.96 a	4.22 a	6.85 a
	16	0.03 c	1.07 b	3.27 a	5.12 a	8.39 a	0.61 a	1.71 a	4.02 a	5.89 a	9.75 a	0.39 a	1.16 a	2.66 a	3.92 a	6.58 a
	24			2.13 c	3.95 b	7.14 a		0.88 a	3.21 a	5.08 a	8.93 a		0.47 a	2.06 a	3.33 a	6.07 a
9	12	0.14 c	1.12 b	3.16 a	4.89 a	7.93 a	0.69 a	1.76 a	4.04 a	5.91 a	9.76 a	0.46 a	1.21 a	2.7 a	3.96 a	6.61 a
	16		0.43 c	2.46 c	4.17 a	7.15 a	0.14 b	1.23 a	3.52 a	5.39 a	9.23 a	0.02 b	0.78 a	2.31 a	3.57 a	6.28 a
	24			1.19 d	2.84 c	5.7 b		0.23 c	2.52 b	4.38 a	8.19 a			1.57 a	2.83 a	5.62 a
10	12		0.59 d	2.45 c	4.03 b	6.77 a	0.29 b	1.35 a	3.56 a	5.46 a	9.28 a	0.14 b	0.89 a	2.4 a	3.65 a	6.34 a
	16			1.69 d	3.23 c	5.9 a		0.73 b	2.94 a	4.82 a	8.61 a		0.37 b	1.94 a	3.19 a	5.92 a
	24			0.35 e	1.82 e	4.33 c			1.78 c	3.61 b	7.34 a			1.04 c	2.29 b	5.11 a
12	12			1.2 e	2.45 d	4.59 c		0.5 c	2.51 b	4.24 a	8.07 a		0.2 c	1.73 b	2.96 a	5.68 a
	16			0.41 e	1.61 e	3.66 d			1.74 d	3.42 c	7.13 a			1.1 c	2.31 b	5.08 a
	24				0.16 f	2.03 e			0.35 e	1.93 d	5.43 c				1.12 d	3.95 c
14	12			0.28 f	1.23 e	2.84 e			1.49 d	2.98 d	6.26 b			1 d	2.17 c	4.87 b
	16				0.43 f	1.94 e			0.63 e	2.06 e	5.18 d			0.24 e	1.37 d	4.09 c
	24					0.4 f				0.44 f	3.29 e					2.67 e
16	12				0.39 f	1.6 f			0.6 e	1.85 e	4.55 d			0.28 e	1.35 e	3.96 d
	16					0.77 f				0.89 f	3.43 e				0.44 e	3.03 e
	24									1.52 f						1.39 f

50 PSF LATERAL LOAD																
WALL HEIGHT	SPACING O.C.	600S162-(MILS)					600S200-(mils)					800S137-(mils)				
		33 ksi		50 ksi			33 ksi		50 ksi			33 ksi		50 ksi		
		33	43	54	68	97	33	43	54	68	97	33	43	54	68	97
8	12	1.21a	2.28a	4.56a	6.43a	10.4a	1.6a	2.98a	6.12a	8.72a	14.4a	0.98a*	1.72a	3a	4.2a	6.72a
	16	0.78a	1.89a	4.18a	6.06a	10.04a	1.16a	2.5a	5.64a	8.27a	13.94a	0.71a*	1.47a	2.79a	4a	6.53a
	24		1.12a	3.45a	5.34a	9.32a	0.3a	1.58a	4.71a	7.39a	13.05a	0.18a*	0.96a	2.37a	3.6a	6.15a
9	12	0.86a	1.95a	4.22a	6.09a	10.06a	1.23a	2.55a	5.62a	8.19a	13.77a	0.76a*	1.51a	2.82a	4.03a	6.55a
	16	0.34a	1.46a	3.75a	5.62a	9.59a	0.69a	1.97a	5.02a	7.63a	13.19a	0.43a*	1.19a	2.56a	3.78a	6.31a
	24		0.52b	2.84a	4.72a	8.68a		0.85a	3.87a	6.53a	12.06a		0.56a	2.04a	3.27a	5.83a
10	12	0.48a	1.58a	3.84a	5.71a	9.66a	0.82a	2.08a	5.05a	7.59a	13.03a	0.52a*	1.28a	2.63a	3.84a	6.37a
	16		0.99a	3.27a	5.13a	9.07a	0.19b	1.39a	4.33a	6.9a	12.32a	0.11a*	0.89a	2.3a	3.53a	6.07a
	24			2.17b	4.03a	7.94a		0.1b	2.99a	5.59a	10.94a		0.12a	1.66a	2.91a	5.48a
12	12		0.76b	2.94a	4.79a	8.66a		1.1b	3.79a	6.2a	11.25a		0.75a	2.17a	3.4a	5.94a
	16		0.01d	2.17c	4b	7.82a		0.23c	2.88b	5.29a	10.27a		0.21a	1.71a	2.95a	5.5a
	24			0.77d	2.53d	6.25b			1.22d	3.62c	8.45a			0.82b	2.07a	4.64a
14	12			1.92d	3.6c	7.39a		0.15d	2.52c	4.7b	9.21a		0.16b	1.65a	2.87a	5.41a
	16			1.03e	2.66d	6.32c			1.48d	3.64c	8.03b			1.04b	2.27a	4.81a
	24				0.97e	4.39d				1.75e	5.91d				1.12c	3.67b
16	12			0.98e	2.42d	5.67c			1.37d	3.28d	7.16b			1.06c	2.27b	4.78a
	16			0.04f	1.41e	4.5d			0.28e	2.15e	5.88d			0.32d	1.52c	4.02b
	24					2.47e				0.18f	3.64e				0.12e	2.59d

WALL HEIGHT	SPACING O.C.	50 PSF LATERAL LOAD									
		800S162-(MILS)					800S200-(mils)				
		33 ksi		50 ksi			33 ksi			50 ksi	
		33	43	54	68	97	33	43	54	68	97
8	12	1.52 a*	2.52 a	4.67 a	6.51 a	10.54 a	2.03 a*	3.49 a	6.78 a	9.41 a	15.14 a
	16	1.2 a*	2.21 a	4.39 a	6.24 a	10.27 a	1.69 a*	3.14 a	6.43 a	9.09 a	14.84 a
	24	0.58 a*	1.61 a	3.84 a	5.7 a	9.74 a	1.01 a*	2.43 a	5.73 a	8.45 a	14.22 a
9	12	1.26 a*	2.26 a	4.44 a	6.28 a	10.31 a	1.75 a*	3.2 a	6.48 a	9.13 a	14.87 a
	16	0.86 a*	1.88 a	4.08 a	5.93 a	9.97 a	1.32 a*	2.75 a	6.03 a	8.72 a	14.48 a
	24	0.09 a*	1.12 a	3.39 a	5.25 a	9.29 a	0.48 a*	1.86 a	5.15 a	7.9 a	13.69 a
10	12	0.97 a*	1.98 a	4.17 a	6.01 a	10.04 a	1.43 a*	2.86 a	6.13 a	8.81 a	14.56 a
	16	0.49 a*	1.51 a	3.73 a	5.58 a	9.62 a	0.91 a*	2.31 a	5.58 a	8.3 a	14.06 a
	24		0.59 a	2.88 a	4.74 a	8.77 a		1.24 a	4.5 a	7.29 a	13.08 a
12	12	0.33 a*	1.34 a	3.55 a	5.39 a	9.4 a	0.73 a*	2.1 a	5.32 a	8.04 a	13.78 a
	16		0.69 a	2.93 a	4.77 a	8.78 a	0.02 a*	1.33 a	4.53 a	7.3 a	13.05 a
	24			1.74 a	3.58 a	7.56 a			3.03 a	5.87 a	11.62 a
14	12		0.62 a	2.82 a	4.64 a	8.6 a		1.22 a	4.3 a	7.05 a	12.79 a
	16			2.01 b	3.82 a	7.76 a		0.26 b	3.29 a	6.07 a	11.78 a
	24			0.5 d	2.27 c	6.14 a			1.42 c	4.22 b	9.86 a
16	12			2.01 b	3.78 a	7.66 a		0.32 c	3.15 a	5.77 a	11.3 a
	16			1.03 d	2.77 c	6.57 a			1.97 c	4.6 b	10.04 a
	24				0.91 d	4.57 c				2.45 d	7.71 b



BUILDING PRODUCTS
THAT RISE ABOVE



PERSONAL CONNECTION
IS AT THE CENTER
OF EVERYTHING WE DO.

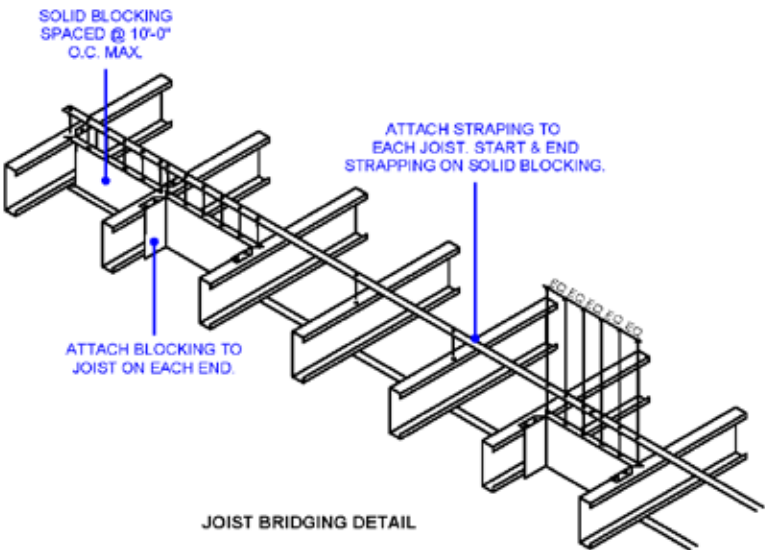
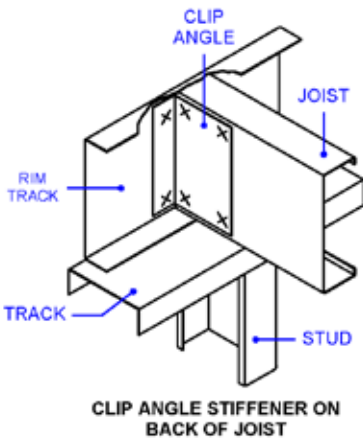
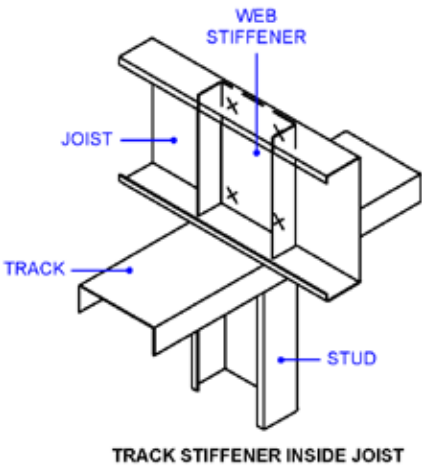


JOIST SPANS



NOTES:

- 1. Spans are based on continuous support of compression flange over the full length of the joist.
- 2. End shear and web crippling capacity have not been reduced for punch-outs.
- 3. Calculated allowable properties are based on AISI S100-12.
- 4. For two equal spans, the listed span is the center-to-center distance from either end to the center support, with the joist continuous over the center support.
- 5. Joists must be braced against rotation at all supports.
- 6. End web crippling check is based on 3.5 inch end bearing. Joist flanges must be fastened to the support.
- 7. Shear capacity at mid-span support has been reduced for the presence of punch-outs adjacent to the support. Mid-span combined bending and shear check based on stiffened web.
- 8. Deflection checks are computed using unbalanced loads for the two equal span condition.
- 9. Total load deflection limited to $L/240$. Live load deflection limit as noted.
- 10. " e " indicates that web stiffeners are required at the end supports only.
- 11. " i " indicates that web stiffeners are required at the interior supports only.
- 12. " a " indicates that web stiffeners are required at all the supports.
- 13. Allowable flexural strength values in the tables are based on the minimum of local, distortional, and lateral-torsional buckling. Distortional buckling strength is based on a $k = 0$. Higher values may be obtained when sheathing is applied to the walls resulting in a higher k -phi value.



BRIDGING RECOMMENDATION	
Span	Rows Required
Up to 14 ft	One Row @ Mid-Span
14 ft to 20 ft	Two Rows @ Third Points
20 ft to 26 ft	Three Rows @ Quarter Points

*These are recommended for general conditions. Consult your engineer for exact requirements.

ALLOWABLE FLOOR JOIST SPAN TABLES

10 PSF DEAD LOAD AND 20 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
6005162-33	33	14'6"	12'7"	10'3"	14'6"	12'7"	10'3"	14'4"	12'7"	10'3"	14'6"	12'7"	10'3"
6005200-33	33	15'6"	13'5"	10'11"	15'6"	13'5"	10'11"	15'0"	13'5"	10'11"	15'6"	13'5"	10'11"
6005162-43	33	17'2"	15'6"	12'8"	17'11"	15'6"	12'8"	15'7"	14'2"	12'5"	17'6"	15'6"	12'8"
6005200-43	33	18'0"	16'0"	13'1"	18'6"	16'0"	13'1"	16'5"	14'11"	13'0"	18'5"	16'0"	13'1"
6005250-43	33	18'11"	16'5"	13'5"	19'0"	16'5"	13'5"	17'2"	15'7"	13'5"	19'0"	16'5"	13'5"
6005162-54	50	18'5"	16'9"	14'7"	20'8"	18'9"	16'5"	16'9"	15'2"	13'3"	18'9"	17'1"	14'11"
6005200-54	50	19'4"	17'7"	15'4"	21'9"	19'9"	17'3"	17'7"	16'0"	14'0"	19'9"	17'11"	15'8"
6005250-54	50	20'2"	18'4"	16'0"	22'8"	20'7"	17'10"	18'4"	16'8"	14'7"	20'7"	18'9"	16'4"
6005162-68	50	19'9"	17'11"	15'8"	22'2"	20'2"	17'7"	17'11"	16'4"	14'3"	20'2"	18'4"	16'0"
6005200-68	50	20'9"	18'10"	16'6"	23'4"	21'2"	18'6"	18'10"	17'2"	15'0"	21'2"	19'3"	16'10"
6005250-68	50	21'9"	19'9"	17'3"	24'5"	22'3"	19'5"	19'9"	18'0"	15'8"	22'3"	20'2"	17'8"
6005162-97	50	21'11"	19'11"	17'4"	24'7"	22'4"	19'6"	19'11"	18'1"	15'9"	22'4"	20'3"	17'9"
6005200-97	50	23'1"	20'11"	18'4"	25'11"	23'6"	20'7"	20'11"	19'0"	16'8"	23'6"	21'4"	18'8"
6005250-97	50	24'3"	22'0"	19'3"	27'2"	24'8"	21'7"	22'0"	20'0"	17'6"	24'8"	22'5"	19'7"
6005162-118	50	23'1"	21'0"	18'4"	25'11"	23'7"	20'7"	21'0"	19'1"	16'8"	23'7"	21'5"	18'9"
6005200-118	50	24'5"	22'2"	19'4"	27'5"	24'11"	21'9"	22'2"	20'2"	17'7"	24'11"	22'7"	19'9"
6005250-118	50	25'8"	23'4"	20'4"	28'9"	26'2"	22'10"	23'4"	21'2"	18'6"	26'2"	23'9"	20'9"
8005162-33	33	16'9"	14'6"	11'10"	16'9"	14'0"	10'6"	16'9"	14'6"	11'10"	16'9"	14'0"	10'6"
8005200-33	33	18'0"	15'7"	12'8"	17'10"	14'7"	10'10"	18'0"	15'7"	12'8"	17'10"	14'7"	10'10"
8005162-43	33	20'2"	17'6"	14'3"	20'2"	17'6"	14'3"	19'6"	17'6"	14'3"	20'2"	17'6"	14'3"
8005200-43	33	21'7"	18'8"	15'3"	21'7"	18'8"	15'3"	20'7"	18'8"	15'3"	21'7"	18'8"	15'3"
8005250-43	33	22'2"	19'2"	15'8"	22'2"	19'2"	15'8"	21'5"	19'2"	15'8"	22'2"	19'2"	15'8"
8005162-54	50	23'1"	20'11"	18'3"	25'10"	23'5"	19'1"	20'11"	19'0"	16'7"	23'6"	21'4"	18'8"
8005200-54	50	24'4"	22'1"	19'4"	27'3"	24'10"	20'5"	22'1"	20'1"	17'6"	24'10"	22'6"	19'8"
8005250-54	50	25'3"	22'11"	20'1"	28'4"	25'7"	20'10"	22'11"	20'10"	18'3"	25'9"	23'5"	20'5"
8005162-68	50	24'11"	22'8"	19'9"	28'0"	25'5"	22'2"	22'8"	20'7"	18'0"	25'5"	23'1"	20'2"
8005200-68	50	26'1"	23'9"	20'9"	29'4"	26'8"	23'3"	23'9"	21'7"	18'10"	26'8"	24'2"	21'2"
8005250-68	50	27'3"	24'9"	21'7"	30'7"	27'9"	24'3"	24'9"	22'6"	19'8"	27'9"	25'3"	22'1"
8005162-97	50	27'8"	25'2"	22'0"	31'1"	28'3"	24'8"	25'2"	22'10"	20'0"	28'3"	25'8"	22'5"
8005200-97	50	29'0"	26'5"	23'1"	32'7"	29'7"	25'11"	26'5"	24'0"	20'11"	29'7"	26'11"	23'6"
8005250-97	50	30'4"	27'7"	24'1"	34'1"	30'11"	27'1"	27'7"	25'1"	21'11"	30'11"	28'2"	24'7"
8005162-118	50	29'4"	26'7"	23'3"	32'11"	29'11"	26'1"	26'7"	24'2"	21'2"	29'11"	27'2"	23'9"
8005200-118	50	30'9"	27'11"	24'5"	34'6"	31'5"	27'5"	27'11"	25'5"	22'2"	31'5"	28'6"	24'11"
8005250-118	50	32'2"	29'3"	25'6"	36'1"	32'10"	28'8"	29'3"	26'7"	23'2"	32'10"	29'10"	26'1"
10005162-43	33	22'4"	19'4"	15'10"	22'4"	19'4"	15'9"	22'4"	19'4"	15'10"	22'4"	19'4"	15'9"
10005200-43	33	24'1"	20'11"	17'1"	24'1"	20'11"	16'6"	24'1"	20'11"	17'1"	24'1"	20'11"	16'6"
10005250-43	33	24'10"	21'6"	17'6"	24'10"	21'6"	16'9"	24'10"	21'6"	17'6"	24'10"	21'6"	16'9"
10005162-54	50	27'5"	24'10"	21'2"	30'0"	25'11"	21'2"	24'10"	22'7"	19'9"	27'11"	25'4"	21'2"
10005200-54	50	28'8"	26'0"	22'9"	32'2"	27'11"	22'9"	26'0"	23'8"	20'8"	29'3"	26'7"	22'9"
10005250-54	50	30'3"	27'6"	23'5"	33'1"	28'8"	23'5"	27'6"	25'0"	21'10"	30'10"	28'0"	23'5"
10005162-68	50	29'8"	27'0"	23'7"	33'4"	30'3"	25'0"	27'0"	24'6"	21'5"	30'3"	27'6"	24'0"
10005200-68	50	31'0"	28'2"	24'7"	34'10"	31'8"	26'9"	28'2"	25'7"	22'4"	31'8"	28'9"	25'1"
10005250-68	50	32'6"	29'7"	25'10"	36'6"	33'2"	27'6"	29'7"	26'10"	23'5"	33'2"	30'2"	26'4"
10005162-97	50	33'4"	30'4"	26'6"	37'5"	34'0"	29'9"	30'4"	27'6"	24'1"	34'0"	30'11"	27'0"
10005200-97	50	34'10"	31'8"	27'8"	39'1"	35'6"	31'0"	31'8"	28'9"	25'1"	35'6"	32'3"	28'2"
10005250-97	50	36'3"	32'11"	28'9"	40'9"	37'0"	32'4"	32'11"	29'11"	26'2"	37'0"	33'7"	29'4"
10005162-118	50	35'4"	32'1"	28'0"	39'8"	36'0"	31'6"	32'1"	29'2"	25'6"	36'0"	32'9"	28'7"
10005200-118	50	36'11"	33'7"	29'4"	41'6"	37'8"	32'11"	33'7"	30'6"	26'8"	37'8"	34'3"	29'11"
10005250-118	50	38'6"	35'0"	30'7"	43'2"	39'3"	34'4"	35'0"	31'9"	27'9"	39'3"	35'8"	31'2"
12005162-54	50	31'6"	27'11"	22'10"	32'3"	27'11"	22'10"	28'7"	26'0"	22'9"	32'2"	27'11"	22'10"
12005200-54	50	32'11"	29'11"	24'8"	33'11"	30'3"	24'8"	29'11"	27'2"	23'9"	33'7"	30'3"	24'8"
12005250-54	50	34'3"	31'2"	25'6"	36'0"	31'2"	25'6"	31'2"	28'4"	24'9"	35'0"	31'2"	25'6"
12005162-68	50	34'3"	31'1"	27'1"	38'4"	33'3"	27'1"	31'1"	28'3"	24'8"	34'11"	31'9"	27'1"
12005200-68	50	35'9"	32'5"	28'4"	40'1"	35'9"	29'2"	32'5"	29'6"	25'9"	36'5"	33'1"	28'11"
12005250-68	50	37'3"	33'10"	29'6"	41'9"	36'11"	30'1"	33'10"	30'9"	26'10"	37'11"	34'6"	30'1"
12005162-97	50	38'10"	35'3"	30'10"	43'7"	39'7"	34'7"	35'3"	32'0"	28'0"	39'7"	36'0"	31'5"
12005200-97	50	40'5"	36'8"	32'1"	45'4"	41'3"	36'0"	36'8"	33'4"	29'2"	41'3"	37'5"	32'9"
12005250-97	50	42'0"	38'2"	33'4"	47'1"	42'10"	37'5"	38'2"	34'8"	30'3"	42'10"	38'11"	34'0"
12005162-118	50	41'3"	37'6"	32'9"	46'4"	42'1"	36'9"	37'6"	34'1"	29'9"	42'1"	38'3"	33'5"
12005200-118	50	43'0"	39'1"	34'1"	48'3"	43'10"	38'4"	39'1"	35'6"	31'0"	43'10"	39'10"	34'10"
12005250-118	50	44'8"	40'7"	35'5"	50'2"	45'7"	39'9"	40'7"	36'10"	32'2"	45'7"	41'5"	36'2"
12005300-118	50	46'1"	41'10"	36'7"	51'9"	47'0"	41'1"	41'10"	38'0"	33'3"	47'0"	42'8"	37'4"
12005350-118	50	48'5"	44'0"	38'5"	54'5"	49'5"	43'2"	44'0"	40'0"	34'11"	49'5"	44'11"	39'3"
14005200-54	50	37'0"	32'1"	26'2"	37'0"	32'1"	24'5"	33'8"	30'7"	26'2"	37'0"	32'1"	24'5"
14005250-54	50	38'6"	33'4"	27'2"	38'6"	33'2"	24'11"	35'0"	31'10"	27'2"	38'6"	33'2"	24'11"
14005300-54	50	39'1"	34'1"	27'10"	39'5"	33'8"	25'3"	35'6"	32'3"	27'10"	39'5"	33'8"	25'3"
14005350-54	50	41'9"	37'11"	31'4"	44'2"	36'1"	26'10"	37'11"	34'6"	30'1"	42'7"	36'1"	26'10"
14005200-68	50	40'3"	36'7"	31'1"	44'0"	38'1"	31'1"	36'7"	33'3"	29'0"	41'0"	37'3"	31'1"
14005250-68	50	41'10"	38'0"	32'3"	45'8"	39'7"	32'3"	38'0"	34'7"	30'2"	42'8"	38'10"	32'3"
14005300-68	50	43'0"	39'0"	33'1"	46'9"	40'6"	33'1"	39'0"	35'6"	31'0"	43'10"	39'10"	33'1"
14005350-68	50	46'1"	41'10"	36'7"	51'9"	45'2"	36'11"	41'10"	38'0"	33'3"	47'0"	42'8"	36'11"
14005200-97	50	45'8"	41'6"	36'3"	51'3"	46'7"	40'5"	41'6"	37'8"	32'11"	46'7"	42'4"	37'0"
14005250-97	50	47'4"	43'0"	37'7"	53'2"	48'4"	41'11"	43'0"	39'1"	34'2"	48'4"	43'11"	38'4"

10 PSF DEAD LOAD AND 20 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
1400S300-97	50	48'10"	44'4"	38'9"	54'10"	49'10"	42'11"	44'4"	40'4"	35'2"	49'10"	45'3"	39'6"
1400S350-97	50	51'6"	46'9"	40'11"	57'10"	52'6"	45'11"	46'9"	42'6"	37'2"	52'6"	47'9"	41'8"
1400S200-118	50	48'11"	44'5"	38'10"	54'11"	49'11"	43'7"	44'5"	40'4"	35'3"	49'11"	45'4"	39'7"
1400S250-118	50	50'8"	46'0"	40'3"	56'11"	51'8"	45'2"	46'0"	41'10"	36'6"	51'8"	46'11"	41'0"
1400S300-118	50	52'4"	47'7"	41'6"	58'9"	53'5"	46'8"	47'7"	43'2"	37'9"	53'5"	48'6"	42'4"
1400S350-118	50	54'9"	49'9"	43'6"	61'6"	55'10"	48'10"	49'9"	45'3"	39'6"	55'10"	50'9"	44'4"
1600S200-68	50	44'7" e	40'1" e	32'9" e	46'3" a	40'1" a	32'9" a	40'6" e	36'10" e	32'2" e	45'6" a	40'1" a	32'9" a
1600S250-68	50	46'4" e	41'9" e	34'1" e	48'3" a	41'9" a	34'1" a	42'1" e	38'3" e	33'5" e	47'3" a	41'9" a	34'1" a
1600S300-68	50	47'6" e	42'11" e	35'1" e	49'7" a	42'11" a	35'1" a	43'2" e	39'3" e	34'3" e	48'6" a	42'11" a	35'1" a
1600S350-68	50	50'1" e	45'6" e	39'4" e	55'7" a	48'2" a	39'0" a	45'6" e	41'4" e	36'1" e	51'1" a	46'5" a	39'0" a
1600S200-97	50	50'9"	46'2"	40'4"	57'0"	51'10"	42'10"	46'2"	41'11"	36'7"	51'10"	47'1"	41'1"
1600S250-97	50	52'7"	47'9"	41'9"	59'1" i	53'8" i	44'7" i	47'9"	43'5"	37'11"	53'8"	48'9"	42'7" i
1600S300-97	50	54'2"	49'2"	43'0"	60'10" i	55'3" i	45'9" i	49'2"	44'8"	39'1"	55'3"	50'2"	43'10" i
1600S350-97	50	56'9"	51'7"	45'1"	63'9"	57'11" i	50'7" i	51'7"	46'10"	40'11"	57'11"	52'7"	45'11" i
1600S200-118	50	54'6"	49'6"	43'3"	61'2"	55'7"	48'7" i	49'6"	45'0"	39'4"	55'7"	50'6"	44'2"
1600S250-118	50	56'4"	51'2"	44'9"	63'3"	57'6"	50'3" i	51'2"	46'6"	40'8"	57'6"	52'3"	45'8"
1600S300-118	50	58'2"	52'10"	46'2"	65'3"	59'4"	51'10" i	52'10"	48'0"	41'11"	59'4"	53'11"	47'1"
1600S350-118	50	60'9"	55'2"	48'2"	68'2"	61'11"	54'2" i	55'2"	50'2"	43'10"	61'11"	56'4"	49'2"

10 PSF DEAD LOAD AND 30 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	12'7" e	10'11" e	8'11" e	12'7" i	10'11" a	8'11" a	12'6" e	10'11" e	8'11" e	12'7" i	10'11" a	8'11" a
600S200-33	33	13'5" e	11'7" e	9'6" e	13'5" i	11'7" a	9'3" a	13'1" e	11'7" e	9'6" e	13'5" i	11'7" a	9'3" a
600S162-43	33	15'0"	13'5"	11'0" e	15'6" i	13'5" i	11'0" i	13'8"	12'5"	10'10" e	15'4" i	13'5" i	11'0" i
600S200-43	33	15'9"	13'10"	11'4" e	16'0" i	13'10" i	11'4" i	14'4"	13'0"	11'4" e	16'0" i	13'10" i	11'4" i
600S250-43	33	16'5"	14'3"	11'7" e	16'5" i	14'3" i	11'7" i	15'0"	13'7"	11'7" e	16'5" i	14'3" i	11'7" i
600S162-54	50	16'1"	14'7"	12'9"	18'1"	16'5" i	14'4" i	14'7"	13'3"	11'7"	16'5"	14'11"	13'0" i
600S200-54	50	16'11"	15'4"	13'5"	19'0"	17'3" i	15'1" i	15'4"	14'0"	12'2"	17'3"	15'8"	13'8" i
600S250-54	50	17'8"	16'0"	14'0"	19'10" i	18'0" i	15'6" i	16'0"	14'7"	12'9"	18'0"	16'4" i	14'3" i
600S162-68	50	17'3"	15'8"	13'8"	19'4"	17'7"	15'4" i	15'8"	14'3"	12'5"	17'7"	16'0"	14'0"
600S200-68	50	18'2"	16'6"	14'5"	20'4"	18'6"	16'2" i	16'6"	15'0"	13'1"	18'6"	16'10"	14'8"
600S250-68	50	19'0"	17'3"	15'1"	21'4"	19'5"	16'11" i	17'3"	15'8"	13'9"	19'5"	17'8"	15'5"
600S162-97	50	19'1"	17'4"	15'2"	21'6"	19'6"	17'0"	17'4"	15'9"	13'9"	19'6"	17'9"	15'6"
600S200-97	50	20'2"	18'4"	16'0"	22'7"	20'7"	17'11"	18'4"	16'8"	14'6"	20'7"	18'8"	16'4"
600S250-97	50	21'2"	19'3"	16'9"	23'9"	21'7"	18'10"	19'3"	17'6"	15'3"	21'7"	19'7"	17'2"
600S162-118	50	20'2"	18'4"	16'0"	22'8"	20'7"	18'0"	18'4"	16'8"	14'7"	20'7"	18'9"	16'4"
600S200-118	50	21'4"	19'4"	16'11"	23'11"	21'9"	19'0"	19'4"	17'7"	15'4"	21'9"	19'9"	17'3"
600S250-118	50	22'5"	20'4"	17'9"	25'2"	22'10"	20'0"	20'4"	18'6"	16'2"	22'10"	20'9"	18'2"
800S162-33	33	14'6" e	12'7" e	10'3" e	14'0" a	11'5" a	8'5" a	14'6" e	12'7" e	10'3" e	14'0" a	11'5" a	8'5" a
800S200-33	33	15'7" e	13'6" e	11'0" e	14'7" a	11'10" a	8'9" a	15'7" e	13'6" e	11'0" e	14'7" a	11'10" a	8'9" a
800S162-43	33	17'6"	15'2" e	12'4" e	17'6" i	15'2" i	12'4" a	17'0"	15'2" e	12'4" e	17'6" i	15'2" i	12'4" a
800S200-43	33	18'8"	16'2" e	13'3" e	18'8" i	16'2" i	13'3" a	18'0"	16'2" e	13'3" e	18'8" i	16'2" i	13'3" a
800S250-43	33	19'2" e	16'7" e	13'7" e	19'2" i	16'7" i	13'7" a	18'9"	16'7" e	13'7" e	19'2" i	16'7" i	13'7" a
800S162-54	50	20'2"	18'3"	16'0"	22'7" i	20'3" i	16'6" i	18'3"	16'7"	14'6"	20'6" i	18'8" i	16'4" i
800S200-54	50	21'3"	19'4"	16'10"	23'10" i	21'7" i	17'8" i	19'4"	17'6"	15'4"	21'8" i	19'8" i	17'2" i
800S250-54	50	22'1"	20'1"	17'6"	24'9" i	22'1" i	18'1" i	20'1"	18'3"	15'11"	22'6" i	20'5" i	17'10" i
800S162-68	50	21'9"	19'9"	17'3"	24'5"	22'2" i	19'5" i	19'9"	18'0"	15'8"	22'2"	20'2"	17'7" i
800S200-68	50	22'10"	20'9"	18'1"	25'7"	23'3" i	20'4" i	20'9"	18'10"	16'5"	23'3"	21'2"	18'6" i
800S250-68	50	23'9"	21'7"	18'11"	26'9"	24'3" i	21'2" i	21'7"	19'8"	17'2"	24'3"	22'1"	19'3" i
800S162-97	50	24'2"	22'0"	19'2"	27'2"	24'8"	21'7"	22'0"	20'0"	17'5"	24'8"	22'5"	19'7"
800S200-97	50	25'4"	23'1"	20'2"	28'6"	25'11"	22'7"	23'1"	20'11"	18'4"	25'11"	23'6"	20'6"
800S250-97	50	26'6"	24'1"	21'1"	29'9"	27'1"	23'7"	24'1"	21'11"	19'1"	27'1"	24'7"	21'6"
800S162-118	50	25'7"	23'3"	20'4"	28'9"	26'1"	22'10"	23'3"	21'2"	18'5"	26'1"	23'9"	20'9"
800S200-118	50	26'10"	24'5"	21'4"	30'2"	27'5"	23'11"	24'5"	22'2"	19'5"	27'5"	24'11"	21'9"
800S250-118	50	28'1"	25'6"	22'4"	31'7"	28'8"	25'1"	25'6"	23'2"	20'3"	28'8"	26'1"	22'9"
1000S162-43	33	19'4" e	16'9" e	13'8" e	19'4" a	16'9" a	12'10" a	19'4" e	16'9" e	13'8" e	19'4" a	16'9" a	12'10" a
1000S200-43	33	20'11" e	18'1" e	14'9" e	20'11" a	17'10" a	13'5" a	20'11" e	18'1" e	14'9" e	20'11" a	17'10" a	13'5" a
1000S250-43	33	21'6" e	18'7" e	15'2" e	21'6" a	18'2" a	13'7" a	21'6" e	18'7" e	15'2" e	21'6" a	18'2" a	13'7" a
1000S162-54	50	23'11"	21'9"	18'4"	25'11" i	22'6" i	18'4" i	21'9"	19'9"	17'3"	24'5" i	22'2" i	18'4" i
1000S200-54	50	25'0"	22'9"	19'9"	27'11" i	24'2" i	19'9" i	22'9"	20'8"	18'1"	25'6" i	23'2" i	19'9" i
1000S250-54	50	26'5"	24'0"	20'3"	28'8" i	24'10" i	20'3" i	24'0"	21'10"	19'1"	26'11" i	24'6" i	20'3" i
1000S162-68	50	25'11"	23'7"	20'7"	29'1" i	26'6" i	21'8" i	23'7"	21'5"	18'8"	26'6"	24'0" i	21'0" i
1000S200-68	50	27'1"	24'7"	21'6"	30'5" i	27'8" i	23'2" i	24'7"	22'4"	19'7"	27'8"	25'1" i	21'11" i
1000S250-68	50	28'5"	25'10"	22'7"	31'11" i	29'0" i	23'10" i	25'10"	23'5"	20'6"	29'0"	26'4" i	23'0" i
1000S162-97	50	29'2"	26'6"	23'1"	32'8"	29'9"	26'0" i	26'6"	24'1"	21'0"	29'9"	27'0"	23'7"
1000S200-97	50	30'5"	27'8"	24'2"	34'2"	31'0"	27'1" i	27'8"	25'1"	21'11"	31'0"	28'2"	24'8"
1000S250-97	50	31'8"	28'9"	25'2"	35'7"	32'4"	28'3" i	28'9"	26'2"	22'10"	32'4"	29'4"	25'8"
1000S162-118	50	30'10"	28'0"	24'6"	34'8"	31'6"	27'6"	28'0"	25'6"	22'3"	31'6"	28'7"	25'0"
1000S200-118	50	32'3"	29'4"	25'7"	36'3"	32'11"	28'9"	29'4"	26'8"	23'3"	32'11"	29'11"	26'1"

10 PSF DEAD LOAD AND 30 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S250-118	50	33'7"	30'7"	26'8"	37'9"	34'4"	30'0"	30'7"	27'9"	24'3"	34'4"	31'2"	27'3"
1200S162-54	50	27'6" e	24'2" e	19'9" e	27'11" a	24'2" a	19'6" a	25'0" e	22'9" e	19'9" e	27'11" a	24'2" a	19'6" a
1200S200-54	50	28'9" e	26'2" e	21'4" e	30'3" a	26'2" a	20'6" a	26'2" e	23'9" e	20'9" e	29'4" a	26'2" a	20'6" a
1200S250-54	50	29'11" e	27'0" e	22'1" e	31'2" a	27'0" a	20'11" a	27'3" e	24'9" e	21'7" e	30'7" a	27'0" a	20'11" a
1200S162-68	50	29'11"	27'2"	23'6"	33'3" i	28'9" i	23'6" i	27'2"	24'8"	21'7"	30'6" i	27'9" i	23'6" i
1200S200-68	50	31'2"	28'4"	24'9"	35'0" i	30'11" i	25'3" i	28'4"	25'9"	22'6"	31'10" i	28'11" i	25'3" i
1200S250-68	50	32'6"	29'6"	25'10"	36'6" i	31'11" i	26'1" i	29'6"	26'10"	23'5"	33'2" i	30'2" i	26'1" i
1200S162-97	50	33'11"	30'10"	26'11"	38'1"	34'7"	30'2" i	30'10"	28'0"	24'5"	34'7"	31'5"	27'5" i
1200S200-97	50	35'4"	32'1"	28'0"	39'8"	36'0"	31'5" i	32'1"	29'2"	25'5"	36'0"	32'9"	28'7" i
1200S250-97	50	36'8"	33'4"	29'1"	41'2"	37'5" i	32'8" i	33'4"	30'3"	26'5"	37'5"	34'0"	29'8" i
1200S162-118	50	36'1"	32'9"	28'7"	40'6"	36'9"	32'1"	32'9"	29'9"	26'0"	36'9"	33'5"	29'2"
1200S200-118	50	37'7"	34'1"	29'10"	42'2"	38'4"	33'6"	34'1"	31'0"	27'1"	38'4"	34'10"	30'5"
1200S250-118	50	39'0"	35'5"	30'11"	43'9"	39'9"	34'9"	35'5"	32'2"	28'2"	39'9"	36'2"	31'7"
1200S300-118	50	40'3"	36'7"	31'11"	45'2"	41'1"	35'10"	36'7"	33'3"	29'0"	41'1"	37'4"	32'7"
1200S350-118	50	42'4"	38'5"	33'7"	47'6"	43'2"	37'8"	38'5"	34'11"	30'6"	43'2"	39'3"	34'3"
1400S200-54	50	32'1" e	27'9" e	22'8" e	32'1" a	26'6" a	19'10" a	29'5" e	26'8" e	22'8" e	32'1" a	26'6" a	19'10" a
1400S250-54	50	33'4" e	28'10" e	23'7" e	33'2" a	27'1" a	20'2" a	30'7" e	27'9" e	23'7" e	33'2" a	27'1" a	20'2" a
1400S300-54	50	34'1" e	29'7" e	24'2" e	33'8" a	27'6" a	20'5" a	31'0" e	28'2" e	24'2" e	33'8" a	27'6" a	20'5" a
1400S350-54	50	36'6" e	33'2" e	27'1" e	36'1" a	29'4" a	21'7" a	33'2" e	30'1" e	26'4" e	36'1" a	29'4" a	21'7" a
1400S200-68	50	35'2"	31'11"	26'11"	38'1" i	33'0" i	26'11" i	31'11"	29'0"	25'4"	35'10" i	32'7" i	26'11" i
1400S250-68	50	36'7"	33'3"	28'0"	39'7" i	34'3" i	28'0" i	33'3"	30'2"	26'4"	37'4" i	33'11" i	28'0" i
1400S300-68	50	37'6"	34'1"	28'7"	40'6" i	35'1" i	28'7" i	34'1"	31'0"	27'1"	38'3" i	34'9" i	28'7" i
1400S350-68	50	40'3"	36'7"	31'11" e	45'2" i	39'2" i	31'11" i	36'7"	33'3"	29'0"	41'1" i	37'3" i	31'11" i
1400S200-97	50	39'11"	36'3"	31'8"	44'10"	40'8" i	35'0" i	36'3"	32'11"	28'9"	40'8"	37'0"	32'4" i
1400S250-97	50	41'5"	37'7"	32'10"	46'6"	42'3" i	36'3" i	37'7"	34'2"	29'10"	42'3"	38'4"	33'6" i
1400S300-97	50	42'8"	38'9"	33'10"	47'11"	43'6" i	37'2" i	38'9"	35'2"	30'9"	43'6"	39'6"	34'6" i
1400S350-97	50	45'0"	40'11"	35'8"	50'6"	45'11" i	40'1" i	40'11"	37'2"	32'5"	45'11"	41'8"	36'5" i
1400S200-118	50	42'9"	38'10"	33'11"	48'0"	43'7"	38'1" i	38'10"	35'3"	30'10"	43'7"	39'7"	34'7"
1400S250-118	50	44'3"	40'3"	35'2"	49'8"	45'2"	39'5" i	40'3"	36'6"	31'11"	45'2"	41'0"	35'10"
1400S300-118	50	45'9"	41'6"	36'3"	51'4"	46'8"	40'9" i	41'6"	37'9"	33'0"	46'8"	42'4"	37'0"
1400S350-118	50	47'10"	43'6"	38'0"	53'9"	48'10"	42'8" i	43'6"	39'6"	34'6"	48'10"	44'4"	38'9"
1600S200-68	50	38'11" e	34'8" e	28'4" e	40'1" a	34'8" a	28'4" a	35'5" e	32'2" e	28'1" e	39'9" a	34'8" a	28'4" a
1600S250-68	50	40'6" e	36'2" e	29'6" e	41'9" a	36'2" a	29'3" a	36'9" e	33'5" e	29'2" e	41'4" a	36'2" a	29'3" a
1600S300-68	50	41'6" e	37'2" e	30'4" e	42'11" a	37'2" a	29'9" a	37'9" e	34'3" e	29'11" e	42'4" a	37'2" a	29'9" a
1600S350-68	50	43'9" e	39'9" e	34'0" e	48'2" a	41'8" a	31'10" a	39'9" e	36'1" e	31'7" e	44'7" a	40'6" a	31'10" a
1600S200-97	50	44'4"	40'4"	35'3"	49'10" i	45'3" i	37'1" i	40'4"	36'7"	32'0"	45'3"	41'1" i	35'11" i
1600S250-97	50	45'11"	41'9"	36'6"	51'7" i	46'10" i	38'7" i	41'9"	37'11"	33'2"	46'10"	42'7" i	37'2" i
1600S300-97	50	47'4"	43'0"	37'7"	53'1" i	48'3" i	39'8" i	43'0"	39'1"	34'1"	48'3" i	43'10" i	38'4" i
1600S350-97	50	49'7"	45'1"	39'4"	55'8" i	50'7" i	43'10" i	45'1"	40'11"	35'9"	50'7"	45'11" i	40'2" i
1600S200-118	50	47'7"	43'3"	37'9"	53'5"	48'7"	42'5" i	43'3"	39'4"	34'4"	48'7"	44'2"	38'7" i
1600S250-118	50	49'3"	44'9"	39'1"	55'3"	50'3"	43'10" i	44'9"	40'8"	35'6"	50'3"	45'8"	39'10" i
1600S300-118	50	50'9"	46'2"	40'4"	57'0"	51'10" i	45'3" i	46'2"	41'11"	36'7"	51'10"	47'1" i	41'1" i
1600S350-118	50	53'1"	48'2"	42'1"	59'7"	54'2"	47'3" i	48'2"	43'10"	38'3"	54'2"	49'2"	43'0" i

10 PSF DEAD LOAD AND 40 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	11'3" e	9'9" e	7'11" e	11'3" i	9'9" a	7'7" a	11'3" e	9'9" e	7'11" e	11'3" i	9'9" a	7'7" a
600S200-33	33	12'0" e	10'5" e	8'6" e	12'0" a	10'5" a	7'11" a	11'11" e	10'5" e	8'6" e	12'0" a	10'5" a	7'11" a
600S162-43	33	13'8"	12'0" e	9'10" e	13'11" i	12'0" i	9'10" a	12'5"	11'3"	9'10" e	13'11" i	12'0" i	9'10" a
600S200-43	33	14'4"	12'5" e	10'2" e	14'4" i	12'5" i	10'2" a	13'0"	11'10"	10'2" e	14'4" i	12'5" i	10'2" a
600S250-43	33	14'8"	12'9" e	10'5" e	14'8" i	12'9" i	10'5" a	13'7"	12'4" e	10'5" e	14'8" i	12'9" i	10'5" a
600S162-54	50	14'7"	13'3"	11'7"	16'5" i	14'11" i	13'0" i	13'3"	12'1"	10'7"	14'11" i	13'7" i	11'10" i
600S200-54	50	15'4"	14'0"	12'2"	17'3" i	15'8" i	13'6" i	14'0"	12'8"	11'1"	15'8" i	14'3" i	12'5" i
600S250-54	50	16'0"	14'7"	12'9"	18'0" i	16'4" i	13'10" i	14'7"	13'3"	11'7"	16'4" i	14'10" i	13'0" i
600S162-68	50	15'8"	14'3"	12'5"	17'7"	16'0"	14'3" i	14'3"	12'11"	11'4"	16'0"	14'6"	12'8"
600S200-68	50	16'6"	15'0"	13'1"	18'6"	16'10"	14'8" i	15'0"	13'7"	11'11"	16'10"	15'3"	13'4"
600S250-68	50	17'3"	15'8"	13'9"	19'5"	17'8" i	15'5" i	15'8"	14'3"	12'6"	17'8"	16'0"	14'0" i
600S162-97	50	17'4"	15'9"	13'9"	19'6"	17'9"	15'6"	15'9"	14'4"	12'6"	17'9"	16'1"	14'1"
600S200-97	50	18'4"	16'8"	14'6"	20'7"	18'8"	16'4"	16'8"	15'1"	13'2"	18'8"	17'0"	14'10"
600S250-97	50	19'3"	17'6"	15'3"	21'7"	19'7"	17'2"	17'6"	15'10"	13'10"	19'7"	17'10"	15'7"
600S162-118	50	18'4"	16'8"	14'7"	20'7"	18'9"	16'4"	16'8"	15'2"	13'3"	18'9"	17'0"	14'10"
600S200-118	50	19'4"	17'7"	15'4"	21'9"	19'9"	17'3"	17'7"	16'0"	14'0"	19'9"	17'11"	15'8"
600S250-118	50	20'4"	18'6"	16'2"	22'10"	20'9"	18'2"	18'6"	16'10"	14'8"	20'9"	18'10"	16'6"
800S162-33	33	13'0" e	11'3" e	9'2" e	11'11" a	9'8" a	7'1" a	13'0" e	11'3" e	9'2" e	11'11" a	9'8" a	7'1" a
800S200-33	33	13'11" e	12'1" e	9'6" e	12'5" a	10'0" a	7'3" a	13'11" e	12'1" e	9'6" e	12'5" a	10'0" a	7'3" a
800S162-43	33	15'8" e	13'6" e	11'1" e	15'8" i	13'6" a	11'1" a	15'5" e	13'6" e	11'1" e	15'8" i	13'6" a	11'1" a

10 PSF DEAD LOAD AND 40 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-43	33	16'9" e	14'6" e	11'10" e	16'9" i	14'6" a	11'9" a	16'4" e	14'6" e	11'10" e	16'9" i	14'6" a	11'9" a
800S250-43	33	17'2" e	14'10" e	12'2" e	17'2" i	14'10" a	12'0" a	17'0" e	14'10" e	12'2" e	17'2" i	14'10" a	12'0" a
800S162-54	50	18'3" i	16'7" i	14'6" i	20'6" i	18'1" i	14'10" i	16'7" i	15'1" i	13'2" i	18'8" i	16'11" i	14'10" i
800S200-54	50	19'4" i	17'6" i	15'4" i	21'8" i	19'4" i	15'9" i	17'6" i	15'11" i	13'11" i	19'8" i	17'11" i	15'7" i
800S250-54	50	20'1" i	18'3" i	15'11" i	22'6" i	19'9" i	16'2" i	18'3" i	16'7" i	14'6" i	20'5" i	18'7" i	16'2" i
800S162-68	50	19'9" i	18'0" i	15'8" i	22'2" i	20'2" i	17'4" i	18'0" i	16'4" i	14'3" i	20'2" i	18'4" i	16'0" i
800S200-68	50	20'9" i	18'10" i	16'5" i	23'3" i	21'2" i	18'6" i	18'10" i	17'1" i	14'11" i	21'2" i	19'2" i	16'9" i
800S250-68	50	21'7" i	19'8" i	17'2" i	24'3" i	22'1" i	18'11" i	19'8" i	17'10" i	15'7" i	22'1" i	20'0" i	17'6" i
800S162-97	50	22'0" i	20'0" i	17'5" i	24'8" i	22'5" i	19'7" i	20'0" i	18'2" i	15'10" i	22'5" i	20'4" i	17'10" i
800S200-97	50	23'1" i	20'11" i	18'4" i	25'11" i	23'6" i	20'6" i	20'11" i	19'0" i	16'7" i	23'6" i	21'4" i	18'8" i
800S250-97	50	24'1" i	21'11" i	19'1" i	27'1" i	24'7" i	21'6" i	21'11" i	19'11" i	17'4" i	24'7" i	22'4" i	19'6" i
800S162-118	50	23'3" i	21'2" i	18'5" i	26'1" i	23'9" i	20'9" i	21'2" i	19'2" i	16'9" i	23'9" i	21'7" i	18'10" i
800S200-118	50	24'5" i	22'2" i	19'5" i	27'5" i	24'11" i	21'9" i	22'2" i	20'2" i	17'7" i	24'11" i	22'8" i	19'9" i
800S250-118	50	25'6" i	23'2" i	20'3" i	28'8" i	26'1" i	22'9" i	23'2" i	21'1" i	18'5" i	26'1" i	23'8" i	20'8" i
1000S162-43	33	17'4" e	15'0" e	12'3" e	17'4" a	14'8" a	10'11" a	17'4" e	15'0" e	12'3" e	17'4" a	14'8" a	10'11" a
1000S200-43	33	18'8" e	16'2" e	13'2" e	18'8" a	15'4" a	11'6" a	18'8" e	16'2" e	13'2" e	18'8" a	15'4" a	11'4" a
1000S250-43	33	19'3" e	16'8" e	13'7" e	19'0" a	15'7" a	11'6" a	19'3" e	16'8" e	13'7" e	19'0" a	15'7" a	11'6" a
1000S162-54	50	21'9" i	19'9" i	16'5" i	23'2" i	20'1" i	16'5" i	19'9" i	17'11" i	15'8" i	22'2" i	20'1" i	16'5" i
1000S200-54	50	22'9" i	20'8" i	17'8" e	24'11" i	21'7" i	17'8" i	20'8" i	18'9" i	16'5" i	23'2" i	21'1" i	17'8" i
1000S250-54	50	24'0" i	21'10" i	18'1" e	25'7" i	22'2" i	18'1" i	21'10" i	19'10" i	17'4" e	24'6" i	22'2" i	18'1" i
1000S162-68	50	23'7" i	21'5" i	18'8" i	26'6" i	23'9" i	19'5" i	21'5" i	19'5" i	17'0" i	24'0" i	21'10" i	19'1" i
1000S200-68	50	24'7" i	22'4" i	19'7" i	27'8" i	25'1" i	20'9" i	22'4" i	20'4" i	17'9" i	25'1" i	22'10" i	19'11" i
1000S250-68	50	25'10" i	23'5" i	20'6" i	29'0" i	26'1" i	21'4" i	23'5" i	21'4" i	18'7" i	26'4" i	23'11" i	20'11" i
1000S162-97	50	26'6" i	24'1" i	21'0" i	29'9" i	27'0" i	23'7" i	24'1" i	21'10" i	19'1" i	27'0" i	24'6" i	21'5" i
1000S200-97	50	27'8" i	25'1" i	21'11" i	31'0" i	28'2" i	24'8" i	25'1" i	22'10" i	19'11" i	28'2" i	25'7" i	22'5" i
1000S250-97	50	28'9" i	26'2" i	22'10" i	32'4" i	29'4" i	25'8" i	26'2" i	23'9" i	20'9" i	29'4" i	26'8" i	23'4" i
1000S162-118	50	28'0" i	25'6" i	22'3" i	31'6" i	28'7" i	25'0" i	25'6" i	23'2" i	20'3" i	28'7" i	26'0" i	22'8" i
1000S200-118	50	29'4" i	26'8" i	23'3" i	32'11" i	29'11" i	26'1" i	26'8" i	24'2" i	21'2" i	29'11" i	27'2" i	23'9" i
1000S250-118	50	30'7" i	27'9" i	24'3" i	34'4" i	31'2" i	27'3" i	27'9" i	25'3" i	22'0" i	31'2" i	28'4" i	24'9" i
1200S162-54	50	25'0" e	21'8" e	17'8" e	25'0" a	21'8" a	16'9" a	22'9" e	20'8" e	17'8" e	25'0" a	21'8" a	16'9" a
1200S200-54	50	26'2" e	23'5" e	19'1" e	27'0" a	23'3" a	17'6" a	23'9" e	21'7" e	18'10" e	26'8" a	23'3" a	17'6" a
1200S250-54	50	27'3" e	24'2" e	19'9" e	27'11" a	23'9" a	17'10" a	24'9" e	22'6" e	19'7" e	27'9" a	23'9" a	17'10" a
1200S162-68	50	27'2" i	24'8" i	21'0" i	29'8" i	25'9" i	21'0" i	24'8" i	22'5" i	19'7" i	27'9" i	25'2" i	21'0" i
1200S200-68	50	28'4" i	25'9" i	22'6" i	31'10" i	27'8" i	22'7" i	25'9" i	23'5" i	20'5" i	28'11" i	26'3" i	22'7" i
1200S250-68	50	29'6" i	26'10" i	23'4" i	33'0" i	28'7" i	23'4" i	26'10" i	24'5" i	21'4" i	30'2" i	27'4" i	23'4" i
1200S162-97	50	30'10" i	28'0" i	24'5" i	34'7" i	31'5" i	27'3" i	28'0" i	25'5" i	22'3" i	31'5" i	28'7" i	24'11" i
1200S200-97	50	32'1" i	29'2" i	25'5" i	36'0" i	32'9" i	28'7" i	29'2" i	26'6" i	23'1" i	32'9" i	29'9" i	26'0" i
1200S250-97	50	33'4" i	30'3" i	26'5" i	37'5" i	34'0" i	29'8" i	30'3" i	27'6" i	24'0" i	34'0" i	30'11" i	27'0" i
1200S162-118	50	32'9" i	29'9" i	26'0" i	36'9" i	33'5" i	29'2" i	29'9" i	27'0" i	23'7" i	33'5" i	30'4" i	26'6" i
1200S200-118	50	34'1" i	31'0" i	27'1" i	38'4" i	34'10" i	30'5" i	31'0" i	28'2" i	24'7" i	34'10" i	31'7" i	27'7" i
1200S250-118	50	35'5" i	32'2" i	28'2" i	39'9" i	36'2" i	31'7" i	32'2" i	29'3" i	25'7" i	36'2" i	32'10" i	28'8" i
1200S300-118	50	36'7" i	33'3" i	29'0" i	41'1" i	37'4" i	32'7" i	33'3" i	30'2" i	26'4" i	37'4" i	33'11" i	29'7" i
1200S350-118	50	38'5" i	34'11" i	30'6" i	43'2" i	39'3" i	34'3" i	34'11" i	31'9" i	27'9" i	39'3" i	35'8" i	31'1" i
1400S200-54	50	28'8" e	24'10" e	20'3" e	27'9" a	22'8" a	16'9" a	26'8" e	24'3" e	20'3" e	27'9" a	22'8" a	16'9" a
1400S250-54	50	29'10" e	25'10" e	21'1" e	28'5" a	23'1" a	17'0" a	27'9" e	25'3" e	21'1" e	28'5" a	23'1" a	17'0" a
1400S300-54	50	30'6" e	26'5" e	21'7" e	28'9" a	23'5" a	17'3" a	28'2" e	25'7" e	21'7" e	28'9" a	23'5" a	17'3" a
1400S350-54	50	33'2" e	29'9" e	23'6" e	30'9" a	24'10" a	18'1" a	30'1" e	27'4" e	23'6" e	30'9" a	24'10" a	18'1" a
1400S200-68	50	31'11" i	29'0" i	24'1" e	34'1" i	29'6" i	24'1" i	29'0" i	26'4" i	23'0" i	32'7" i	29'6" i	24'1" i
1400S250-68	50	33'3" i	30'2" i	25'0" e	35'4" i	30'8" i	25'0" i	30'2" i	27'5" i	24'0" i	33'11" i	30'8" i	25'0" i
1400S300-68	50	34'1" i	31'0" i	25'7" e	36'2" i	31'4" i	25'7" i	31'0" i	28'2" i	24'7" e	34'9" i	31'4" i	25'7" i
1400S350-68	50	36'7" i	33'3" i	28'7" e	40'5" i	35'0" i	27'9" i	33'3" i	30'2" i	26'4" e	37'3" i	33'11" i	27'9" i
1400S200-97	50	36'3" i	32'11" i	28'9" i	40'8" i	37'0" i	31'4" i	32'11" i	29'11" i	26'2" i	37'0" i	33'7" i	29'4" i
1400S250-97	50	37'7" i	34'2" i	29'10" i	42'3" i	38'4" i	32'6" i	34'2" i	31'0" i	27'1" i	38'4" i	34'10" i	30'5" i
1400S300-97	50	38'9" i	35'2" i	30'9" i	43'6" i	39'6" i	33'3" i	35'2" i	32'0" i	27'11" i	39'6" i	35'11" i	31'4" i
1400S350-97	50	40'11" i	37'2" i	32'5" i	45'11" i	41'8" i	36'5" i	37'2" i	33'9" i	29'6" i	41'8" i	37'11" i	33'1" i
1400S200-118	50	38'10" i	35'3" i	30'10" i	43'7" i	39'7" i	34'7" i	35'3" i	32'0" i	28'0" i	39'7" i	36'0" i	31'5" i
1400S250-118	50	40'3" i	36'6" i	31'11" i	45'2" i	41'0" i	35'10" i	36'6" i	33'2" i	29'0" i	41'0" i	37'3" i	32'7" i
1400S300-118	50	41'6" i	37'9" i	33'0" i	46'8" i	42'4" i	37'0" i	37'9" i	34'3" i	29'11" i	42'4" i	38'6" i	33'8" i
1400S350-118	50	43'6" i	39'6" i	34'6" i	48'10" i	44'4" i	38'9" i	39'6" i	35'11" i	31'4" i	44'4" i	40'4" i	35'2" i
1600S200-68	50	35'5" e	31'0" e	25'4" e	35'10" a	31'0" a	24'5" a	32'2" e	29'2" e	25'4" e	35'10" a	31'0" a	24'5" a
1600S250-68	50	36'9" e	32'4" e	26'5" e	37'4" a	32'4" a	25'1" a	33'5" e	30'4" e	26'5" e	37'4" a	32'4" a	25'1" a
1600S300-68	50	37'9" e	33'3" e	27'2" e	38'5" a	33'3" a	25'5" a	34'3" e	31'2" e	27'2" e	38'5" a	33'3" a	25'5" a
1600S350-68	50	39'9" e	36'1" e	30'5" e	43'1" a	36'3" a	27'1" a	36'1" e	32'10" e	28'8" e	40'6" a	36'3" a	27'1" a
1600S200-97	50	40'4" i	36'7" i	32'0" i	45'3" i	40'8" i	33'2" i	36'7" i	33'3" i	29'1" i	41'1" i	37'4" i	32'8" i
1600S250-97	50	41'9" i	37'11" i	33'2" i	46'10" i	42'3" i	34'6" i	37'11" i	34'6" i	30'1" i	42'7" i	38'8" i	33'10" i
1600S300-97	50	43'0" i	39'1" i	34'1" i	48'3" i	43'5" i	35'5" i	39'1" i	35'6" i	31'0" i	43'10" i	39'10" i	34'10" i
1600S350-97	50	45'1" i	40'11" i	35'9" i	50'7" i	45'11" i	39'2" i	40'11" i	37'2" i	32'6" i	45'11" i	41'9" i	36'6" i
1600S200-118	50	43'3" i	39'4" i	34'4" i	48'7" i	44'2" i	38'6" i	39'4" i	35'9" i	31'2" i	44'2" i	40'1" i	35'0" i
1600S250-118	50	44'9" i	40'8" i	35'6" i	50'3" i	45'8" i	39'10" i	40'8" i	36'11" i	32'3" i	45'8" i	41'6" i	36'3" i
1600S300-118	50	46'2" i	41'11" i	36'7" i	51'10" i	47'1" i	41'1" i	41'11" i	38'1" i	33'3" i	47'1" i	42'9" i	37'4" i
1600S350-118	50	48'2" i	43'10" i	38'3" i	54'2" i	49'2" i	43'0" i	43'10" i	39'10" i	34'9" i	49'2" i	44'8" i	39'0" i

10 PSF DEAD LOAD AND 50 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	10'3"	8'11"	7'3"	10'3"	8'11"	6'8"	10'3"	8'11"	7'3"	10'3"	8'11"	6'8"
600S200-33	33	10'11"	9'6"	7'9"	10'11"	9'3"	6'11"	10'11"	9'6"	7'9"	10'11"	9'3"	6'11"
600S162-43	33	12'8"	11'0"	9'0"	12'8"	11'0"	9'0"	11'6"	10'5"	9'0"	12'8"	11'0"	9'0"
600S200-43	33	13'1"	11'4"	9'3"	13'1"	11'4"	9'3"	12'1"	11'0"	9'3"	13'1"	11'4"	9'3"
600S250-43	33	13'5"	11'7"	9'6"	13'5"	11'7"	9'6"	12'8"	11'6"	9'6"	13'5"	11'7"	9'6"
600S162-54	50	13'7"	12'4"	10'9"	15'3"	13'10"	12'0"	12'4"	11'2"	9'9"	13'10"	12'7"	11'0"
600S200-54	50	14'3"	13'0"	11'4"	16'0"	14'7"	12'4"	13'0"	11'9"	10'3"	14'7"	13'3"	11'7"
600S250-54	50	14'11"	13'6"	11'10"	16'8"	15'2"	12'8"	13'6"	12'3"	10'9"	15'2"	13'9"	12'1"
600S162-68	50	14'7"	13'3"	11'7"	16'4"	14'10"	13'0"	13'3"	12'0"	10'6"	14'10"	13'6"	11'9"
600S200-68	50	15'4"	13'11"	12'2"	17'2"	15'7"	13'8"	13'11"	12'8"	11'0"	15'7"	14'2"	12'5"
600S250-68	50	16'1"	14'7"	12'9"	18'0"	16'4"	14'4"	14'7"	13'3"	11'7"	16'4"	14'10"	13'0"
600S162-97	50	16'2"	14'8"	12'10"	18'1"	16'5"	14'4"	14'8"	13'4"	11'8"	16'5"	14'11"	13'1"
600S200-97	50	17'0"	15'5"	13'6"	19'1"	17'4"	15'2"	15'5"	14'0"	12'3"	17'4"	15'9"	13'9"
600S250-97	50	17'10"	16'3"	14'2"	20'0"	18'2"	15'11"	16'3"	14'9"	12'10"	18'2"	16'6"	14'5"
600S162-118	50	17'0"	15'6"	13'6"	19'1"	17'5"	15'2"	15'6"	14'1"	12'5"	15'9"	15'9"	13'9"
600S200-118	50	18'0"	16'4"	14'3"	20'2"	18'4"	16'0"	16'4"	14'10"	13'0"	18'4"	16'8"	14'7"
600S250-118	50	18'11"	17'2"	15'0"	21'3"	19'3"	16'10"	17'2"	15'7"	13'7"	19'3"	17'6"	15'4"
800S162-33	33	11'10"	10'3"	7'11"	10'6"	8'5"	6'2"	11'10"	10'3"	7'11"	10'6"	8'5"	6'2"
800S200-33	33	12'8"	11'0"	7'11"	10'10"	8'9"	6'4"	12'8"	11'0"	7'11"	10'10"	8'9"	6'4"
800S162-43	33	14'3"	12'4"	10'1"	14'3"	12'4"	10'0"	14'3"	12'4"	10'1"	14'3"	12'4"	10'0"
800S200-43	33	15'3"	13'3"	10'10"	15'3"	13'3"	10'5"	15'2"	13'3"	10'10"	15'3"	13'3"	10'5"
800S250-43	33	15'8"	13'7"	11'1"	15'8"	13'7"	10'6"	15'8"	13'7"	11'1"	15'8"	13'7"	10'6"
800S162-54	50	17'0"	15'5"	13'6"	19'1"	16'6"	13'6"	15'5"	14'0"	11'3"	14'0"	15'9"	13'6"
800S200-54	50	17'11"	16'3"	14'3"	20'1"	17'8"	14'5"	16'3"	14'9"	12'11"	18'3"	16'7"	14'5"
800S250-54	50	18'7"	16'11"	14'9"	20'10"	18'1"	14'9"	16'11"	15'4"	13'5"	19'0"	17'3"	14'9"
800S162-68	50	18'4"	16'8"	14'7"	20'7"	18'9"	15'10"	16'8"	15'2"	13'3"	18'9"	17'0"	14'10"
800S200-68	50	19'3"	17'6"	15'3"	21'7"	19'7"	17'2"	17'6"	15'11"	13'10"	19'7"	17'10"	15'7"
800S250-68	50	20'1"	18'3"	15'11"	22'6"	20'6"	17'3"	18'3"	16'7"	14'6"	20'6"	18'7"	16'3"
800S162-97	50	20'5"	18'6"	16'2"	22'11"	20'10"	18'2"	18'6"	16'10"	14'9"	20'10"	18'11"	16'6"
800S200-97	50	21'5"	19'5"	17'0"	24'0"	21'10"	19'1"	19'5"	17'8"	15'5"	21'10"	19'10"	17'4"
800S250-97	50	22'4"	20'4"	17'9"	25'1"	22'10"	19'11"	20'4"	18'5"	16'1"	22'10"	20'9"	18'1"
800S162-118	50	21'7"	19'7"	17'2"	24'3"	22'0"	19'3"	19'7"	17'10"	15'7"	22'0"	20'0"	17'6"
800S200-118	50	22'8"	20'7"	18'0"	25'5"	23'1"	20'2"	20'7"	18'8"	16'4"	23'1"	21'0"	18'4"
800S250-118	50	23'8"	21'6"	18'10"	26'7"	24'2"	21'2"	21'6"	19'7"	17'1"	24'2"	22'0"	19'2"
1000S162-43	33	15'10"	13'8"	11'2"	15'9"	12'10"	9'7"	15'10"	13'8"	11'2"	15'9"	12'10"	9'7"
1000S200-43	33	17'1"	14'9"	12'1"	16'6"	13'5"	9'11"	17'1"	14'9"	12'1"	16'6"	13'5"	9'11"
1000S250-43	33	17'6"	15'2"	12'5"	16'9"	13'7"	10'1"	17'6"	15'2"	12'5"	16'9"	13'7"	10'1"
1000S162-54	50	20'2"	18'4"	15'0"	21'2"	18'4"	15'0"	18'4"	16'8"	14'7"	20'7"	18'4"	15'0"
1000S200-54	50	21'1"	19'2"	16'1"	22'9"	19'9"	15'10"	19'2"	17'5"	15'3"	21'6"	19'7"	15'10"
1000S250-54	50	22'3"	20'3"	16'6"	23'5"	20'3"	16'1"	20'3"	18'5"	16'1"	22'9"	20'3"	16'1"
1000S162-68	50	21'11"	19'11"	17'4"	24'7"	21'8"	17'8"	19'11"	18'1"	15'9"	22'4"	20'3"	17'8"
1000S200-68	50	22'10"	20'9"	18'2"	25'8"	23'2"	18'11"	20'9"	18'10"	16'6"	23'4"	21'2"	18'6"
1000S250-68	50	24'0"	21'9"	19'0"	26'11"	23'10"	19'6"	21'9"	19'9"	17'3"	24'5"	22'3"	19'5"
1000S162-97	50	24'7"	22'4"	19'6"	27'7"	25'1"	21'11"	22'4"	20'3"	17'9"	25'1"	22'9"	19'11"
1000S200-97	50	25'8"	23'4"	20'4"	28'10"	26'2"	22'10"	23'4"	21'2"	18'6"	26'2"	23'9"	20'9"
1000S250-97	50	26'9"	24'3"	21'3"	30'0"	27'3"	23'10"	24'3"	22'1"	19'3"	27'3"	24'9"	21'8"
1000S162-118	50	26'0"	23'8"	20'8"	29'3"	26'7"	23'2"	23'8"	21'6"	18'9"	26'7"	24'1"	21'1"
1000S200-118	50	27'3"	24'9"	21'7"	30'7"	27'9"	24'3"	24'9"	22'6"	19'7"	27'9"	25'3"	22'0"
1000S250-118	50	28'4"	25'9"	22'6"	31'10"	28'11"	25'3"	25'9"	23'5"	20'5"	28'11"	26'3"	22'11"
1200S162-54	50	22'10"	19'9"	16'1"	22'10"	19'6"	14'8"	21'1"	19'2"	16'1"	22'10"	19'6"	14'8"
1200S200-54	50	24'3"	21'4"	17'5"	24'8"	20'6"	15'4"	22'0"	20'0"	17'5"	24'8"	20'6"	15'4"
1200S250-54	50	25'3"	22'1"	18'0"	25'6"	20'11"	15'7"	22'11"	20'10"	18'0"	25'6"	20'11"	15'7"
1200S162-68	50	25'3"	22'11"	19'2"	27'1"	23'6"	19'2"	22'11"	20'10"	18'2"	25'9"	23'5"	19'2"
1200S200-68	50	26'4"	23'11"	20'8"	29'2"	25'3"	20'8"	23'11"	21'9"	19'0"	26'10"	24'5"	20'8"
1200S250-68	50	27'5"	24'11"	21'4"	30'1"	26'1"	21'4"	24'11"	22'8"	19'9"	28'0"	25'5"	21'4"
1200S162-97	50	28'7"	26'0"	22'8"	32'1"	29'2"	24'11"	26'0"	23'7"	20'7"	29'2"	26'6"	23'2"
1200S200-97	50	29'9"	27'1"	23'8"	33'5"	30'4"	26'6"	27'1"	24'7"	21'6"	30'4"	27'7"	24'1"
1200S250-97	50	30'11"	28'1"	24'7"	34'9"	31'7"	27'5"	28'1"	25'6"	22'4"	31'7"	28'8"	25'0"
1200S162-118	50	30'5"	27'7"	24'2"	34'2"	31'0"	27'1"	27'7"	25'1"	21'11"	31'0"	28'2"	24'7"
1200S200-118	50	31'8"	28'9"	25'2"	35'7"	32'4"	28'3"	28'9"	26'2"	22'10"	32'4"	29'4"	25'8"
1200S250-118	50	32'11"	29'11"	26'1"	36'11"	33'7"	29'4"	29'11"	27'2"	23'9"	33'7"	30'6"	26'8"
1200S300-118	50	33'11"	30'10"	26'11"	38'1"	34'7"	30'3"	30'10"	28'0"	24'6"	34'7"	31'5"	27'6"
1200S350-118	50	35'8"	32'5"	28'4"	40'1"	36'5"	31'10"	32'5"	29'6"	25'9"	36'5"	33'1"	28'11"
1400S200-54	50	26'2"	22'8"	18'6"	24'5"	19'10"	14'7"	24'9"	22'6"	18'6"	24'5"	19'10"	14'7"
1400S250-54	50	27'2"	23'7"	19'3"	24'11"	20'2"	14'10"	25'9"	23'5"	19'3"	24'11"	20'2"	14'10"
1400S300-54	50	27'10"	24'2"	19'7"	25'3"	20'5"	14'11"	26'2"	23'9"	19'7"	25'3"	20'5"	14'11"
1400S350-54	50	30'9"	27'1"	19'7"	26'10"	21'7"	15'8"	27'11"	25'5"	19'7"	26'10"	21'7"	15'8"
1400S200-68	50	29'8"	26'11"	22'0"	31'1"	26'11"	22'0"	26'11"	24'6"	21'5"	30'3"	26'11"	22'0"
1400S250-68	50	30'10"	28'0"	22'10"	32'3"	28'0"	22'6"	28'0"	25'6"	22'3"	31'6"	28'0"	22'6"
1400S300-68	50	31'8"	28'7"	23'4"	33'1"	28'7"	22'10"	28'9"	26'2"	22'10"	32'4"	28'7"	22'10"
1400S350-68	50	33'11"	30'10"	26'1"	36'11"	31'11"	24'5"	30'10"	28'0"	24'6"	34'7"	31'5"	24'5"
1400S200-97	50	33'8"	30'7"	26'9"	37'9"	34'4"	28'7"	30'7"	27'9"	24'3"	34'4"	31'2"	27'3"
1400S250-97	50	34'11"	31'9"	27'8"	39'2"	35'7"	29'8"	31'9"	28'10"	25'2"	35'7"	32'4"	28'3"

10 PSF DEAD LOAD AND 50 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
1400S300-97	50	36'0"	32'8"	28'7"	40'5"	36'8"	30'4"	32'8"	29'8"	25'11"	36'8"	33'4"	29'1"
1400S350-97	50	37'11"	34'6"	30'1"	42'7"	38'8"	33'5"	34'6"	31'4"	27'4"	38'8"	35'2"	30'9"
1400S200-118	50	36'0"	32'9"	28'7"	40'5"	36'9"	32'1"	32'9"	29'9"	26'0"	36'9"	33'5"	29'2"
1400S250-118	50	37'4"	33'11"	29'8"	41'11"	38'1"	33'3"	33'11"	30'10"	26'11"	38'1"	34'7"	30'3"
1400S300-118	50	38'7"	35'0"	30'7"	43'3"	39'4"	34'4"	35'0"	31'10"	27'10"	39'4"	35'9"	31'3"
1400S350-118	50	40'4"	36'8"	32'0"	45'4"	41'2"	36'0"	36'8"	33'4"	29'1"	41'2"	37'5"	32'8"
1600S200-68	50	32'9" e	28'4" e	23'2" e	32'9" a	28'4" a	21'6" a	29'10" e	27'1" e	23'2" e	32'9" a	28'4" a	21'6" a
1600S250-68	50	34'1" e	29'6" e	24'1" e	34'1" a	29'3" a	22'0" a	31'0" e	28'2" e	24'1" e	34'1" a	29'3" a	22'0" a
1600S300-68	50	35'0" e	30'4" e	24'9" e	35'1" a	29'9" a	22'4" a	31'10" e	28'11" e	24'9" e	35'1" a	29'9" a	22'4" a
1600S350-68	50	36'11" e	33'6" e	27'10" e	39'0" a	31'10" a	23'8" a	33'6" e	30'5" e	26'7" e	38'8" a	31'10" a	23'8" a
1600S200-97	50	37'5"	34'0"	29'8"	42'0" i	37'1" i	30'3" i	34'0"	30'11"	27'0"	38'2" i	34'8" i	30'3" i
1600S250-97	50	38'9"	35'3"	30'9"	43'6" i	38'7" i	31'6" i	35'3"	32'0"	27'11"	39'6" i	35'11" i	31'5" i
1600S300-97	50	39'11"	36'3"	31'8"	44'10" i	39'8" i	32'4" i	36'3"	32'11"	28'9"	40'8" i	37'0" i	32'4" i
1600S350-97	50	41'10"	38'0"	33'2"	46'11" i	42'8" i	35'9" i	38'0"	34'6"	30'2"	42'8" i	38'9" i	33'10" i
1600S200-118	50	40'2"	36'6"	31'10"	45'1" i	41'0" i	35'1" i	36'6"	33'2"	29'0"	41'0" i	37'3" i	32'6" i
1600S250-118	50	41'6"	37'9"	33'0"	46'7" i	42'4" i	36'6" i	37'9"	34'3"	29'11"	42'4" i	38'6" i	33'7" i
1600S300-118	50	42'10"	38'11"	34'0"	48'1" i	43'8" i	37'6" i	38'11"	35'4"	30'11"	43'8" i	39'8" i	34'8" i
1600S350-118	50	44'9"	40'8"	35'6"	50'3" i	45'8" i	39'11" i	40'8"	36'11"	32'3"	45'8" i	41'6" i	36'3" i

15 PSF DEAD LOAD AND 125 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	6'9" e	5'10" e	4'7" e	6'0" a	4'10" a	3'6" a	6'9" e	5'10" e	4'7" e	6'0" a	4'10" a	3'6" a
600S200-33	33	7'2" e	6'2" e	4'7" e	6'2" a	5'0" a	3'7" a	7'2" e	6'2" e	4'7" e	6'2" a	5'0" a	3'7" a
600S162-43	33	8'4" e	7'2" e	5'10" e	8'4" a	7'2" a	5'9" a	8'4" e	7'2" e	5'10" e	8'4" a	7'2" a	5'9" a
600S200-43	33	8'7" e	7'5" e	6'1" e	8'7" a	7'5" a	5'11" a	8'7" e	7'5" e	6'1" e	8'7" a	7'5" a	5'11" a
600S250-43	33	8'9" e	7'7" e	6'3" e	8'9" a	7'7" a	6'0" a	8'9" e	7'7" e	6'3" e	8'9" a	7'7" a	6'0" a
600S162-54	50	10'0"	9'1"	7'10" e	11'1" i	9'7" i	7'10" a	9'1"	8'3"	7'3" e	10'2" i	9'3" i	7'10" a
600S200-54	50	10'6"	9'7"	8'1" e	11'5" i	9'11" i	8'1" a	9'7"	8'8"	7'7" e	10'9" i	9'9" i	8'1" a
600S250-54	50	11'0"	9'11" e	8'3" e	11'8" i	10'2" i	8'3" a	9'11"	9'1"	7'11" e	11'2" i	10'2" i	8'3" a
600S162-68	50	10'9"	9'9"	8'6"	12'0" i	10'11" i	9'3" i	9'9"	8'10"	7'9"	10'11" i	9'11" i	8'8" i
600S200-68	50	11'3"	10'3"	8'11"	12'8" i	11'6" i	9'9" i	10'3"	9'4"	8'2"	11'6" i	10'5" i	9'2" i
600S250-68	50	11'10"	10'9"	9'5"	13'3" i	11'10" i	9'8" i	10'9"	9'9"	8'6"	12'1" i	10'11" i	9'7" i
600S162-97	50	11'11"	10'10"	9'5"	13'4"	12'1"	10'7" i	10'10"	9'10"	8'7"	12'1" i	11'0" i	9'7" i
600S200-97	50	12'6"	11'4"	9'11"	14'1"	12'9"	11'2" i	11'4"	10'4"	9'0"	12'9"	11'7"	10'2" i
600S250-97	50	13'2"	11'11"	10'5"	14'9"	13'5" i	11'9" i	11'11"	10'10"	9'6"	13'5" i	12'2"	10'8" i
600S162-118	50	12'7"	11'5"	10'0"	14'1"	12'10"	11'2"	11'5"	10'4"	9'1"	12'10"	11'8"	10'2"
600S200-118	50	13'3"	12'0"	10'6"	14'10"	13'6"	11'10"	12'0"	10'11"	9'7"	13'6"	12'3"	10'9"
600S250-118	50	13'11"	12'8"	11'1"	15'8"	14'2"	12'5"	12'8"	11'6"	10'0"	14'2"	12'11"	11'3"
800S162-33	33	6'9" e	5'1" e	3'5" e	5'5" a	4'1" a	2'8" a	6'9" e	5'1" e	3'5" e	5'5" a	4'1" a	2'8" a
800S200-33	33	6'9" e	5'1" e	3'5" e	5'5" a	4'1" a	2'8" a	6'9" e	5'1" e	3'5" e	5'5" a	4'1" a	2'8" a
800S162-43	33	9'4" e	8'1" e	6'7" e	9'0" a	7'4" a	5'5" a	9'4" e	8'1" e	6'7" e	9'0" a	7'4" a	5'5" a
800S200-43	33	10'0" e	8'8" e	7'1" e	9'4" a	7'6" a	5'7" a	10'0" e	8'8" e	7'1" e	9'4" a	7'6" a	5'7" a
800S250-43	33	10'3" e	8'11" e	7'3" e	9'6" a	7'8" a	5'8" a	10'3" e	8'11" e	7'3" e	9'6" a	7'8" a	5'8" a
800S162-54	50	12'6" e	10'10" e	8'10" e	12'6" i	10'10" i	8'8" a	11'4"	10'4" e	8'10" e	12'6" i	10'10" i	8'8" a
800S200-54	50	13'2" e	11'7" e	9'5" e	13'4" i	11'7" a	9'0" a	12'0"	10'11" e	9'5" e	13'4" i	11'7" a	9'0" a
800S250-54	50	13'8" e	11'10" e	9'8" e	13'8" i	11'10" a	9'1" a	12'6"	11'4" e	9'8" e	13'8" i	11'10" a	9'1" a
800S162-68	50	13'6"	12'3"	10'4" e	14'8" i	12'8" i	10'4" i	11'2"	9'9" e	13'10" i	12'6" i	10'4" i	
800S200-68	50	14'2"	12'11"	11'3" e	15'11" i	14'0" i	11'5" a	12'11"	11'8"	10'3" e	14'5" i	13'2" i	11'5" a
800S250-68	50	14'9"	13'5"	11'4" e	16'0" i	13'10" i	11'4" a	13'5"	12'2"	10'8" e	15'1" i	13'8" i	11'4" a
800S162-97	50	15'0"	13'8"	11'11"	16'11" i	15'4" i	13'1" i	13'8"	12'5"	10'10"	15'4"	13'11" i	12'2" i
800S200-97	50	15'9"	14'4"	12'6"	17'8" i	16'1" i	14'1" i	14'4"	13'0"	11'4"	16'1"	14'7" i	12'9" i
800S250-97	50	16'6"	15'0"	13'1"	18'6" i	16'10" i	14'8" i	15'0"	13'7"	11'11"	16'10"	15'3" i	13'4" i
800S162-118	50	15'11"	14'5"	12'7"	17'10"	16'3"	14'2" i	14'5"	13'2"	11'6"	16'3"	14'9"	12'11"
800S200-118	50	16'8"	15'2"	13'3"	18'9"	17'0"	14'11" i	15'2"	13'9"	12'0"	17'0"	15'6"	13'6"
800S250-118	50	17'6"	15'10"	13'10"	19'7"	17'10"	15'7" i	15'10"	14'5"	12'7"	17'10"	16'2"	14'2" i
1000S162-43	33	10'4" e	8'11" e	6'0" e	8'6" a	6'9" a	4'9" a	10'4" e	8'11" e	6'0" e	8'6" a	6'9" a	4'9" a
1000S200-43	33	11'2" e	8'11" e	6'0" e	8'10" a	7'0" a	4'9" a	11'2" e	8'11" e	6'0" e	8'10" a	7'0" a	4'9" a
1000S250-43	33	11'6" e	8'11" e	6'0" e	8'11" a	7'1" a	4'9" a	11'6" e	8'11" e	6'0" e	8'11" a	7'1" a	4'9" a
1000S162-54	50	13'10" e	12'0" e	9'10" e	13'7" i	11'2" a	8'3" a	13'6" e	12'0" e	9'10" e	13'7" i	11'2" a	8'3" a
1000S200-54	50	14'11" e	12'11" e	10'6" e	14'3" a	11'7" a	8'6" a	14'2" e	12'10" e	10'6" e	14'3" a	11'7" a	8'6" a
1000S250-54	50	15'4" e	13'3" e	10'10" e	14'6" a	11'9" a	8'8" a	14'11" e	13'3" e	10'10" e	14'6" a	11'9" a	8'8" a
1000S162-68	50	16'1"	14'2" e	11'7" e	16'5" i	14'2" i	11'7" a	14'8"	13'4"	11'7" e	16'5" i	14'2" i	11'7" a
1000S200-68	50	16'10"	15'2" e	12'5" e	17'6" i	15'2" i	12'5" a	15'4"	13'11" e	12'2" e	17'2" i	15'2" i	12'5" a
1000S250-68	50	17'8"	15'7" e	12'9" e	18'0" i	15'7" i	12'9" a	16'0"	14'7" e	12'9" e	18'0" i	15'7" i	12'9" a
1000S162-97	50	18'1"	16'5"	14'4"	20'4" i	18'2" i	14'10" i	16'5"	14'11"	13'1"	18'6" i	16'9" i	14'8" i
1000S200-97	50	18'11"	17'2"	15'0"	21'3" i	19'3" i	15'10" i	17'2"	15'7"	13'8"	19'3" i	17'6" i	15'4" i
1000S250-97	50	19'8"	17'11"	15'8"	22'1" i	20'1" i	16'11" i	17'11"	16'3"	14'2"	20'1" i	18'3" i	15'11" i
1000S162-118	50	19'2"	17'5"	15'3"	21'6" i	19'7" i	16'11" i	17'5"	15'10"	13'10"	19'7"	17'9"	15'6" i

15 PSF DEAD LOAD AND 125 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
1000S200-118	50	20'1"	18'3"	15'11"	22'6"	20'5"	17'10"	18'3"	16'7"	14'6"	20'5"	18'7"	16'3"
1000S250-118	50	20'11"	19'0"	16'7"	23'5"	21'4"	18'7"	19'0"	17'3"	15'1"	21'4"	19'4"	16'11"
1200S162-54	50	14'11"	12'11"	9'10"	13'2"	10'7"	7'8"	14'11"	12'11"	9'10"	13'2"	10'7"	7'8"
1200S200-54	50	16'2"	14'0"	9'10"	13'8"	11'0"	7'10"	16'2"	14'0"	9'10"	13'8"	11'0"	7'10"
1200S250-54	50	16'8"	14'5"	9'10"	13'10"	11'1"	7'10"	16'8"	14'5"	9'10"	13'10"	11'1"	7'10"
1200S162-68	50	17'9"	15'4"	12'7"	17'9"	15'4"	11'11"	16'11"	15'4"	12'7"	17'9"	15'4"	11'11"
1200S200-68	50	19'1"	16'6"	13'6"	19'1"	16'6"	12'6"	17'7"	16'0"	13'6"	19'1"	16'6"	12'6"
1200S250-68	50	19'9"	17'1"	13'11"	19'9"	16'10"	12'8"	18'4"	16'8"	13'11"	19'9"	16'10"	12'8"
1200S162-97	50	21'1"	19'2"	16'3"	23'0"	19'11"	16'3"	19'2"	17'5"	15'2"	21'6"	19'6"	16'3"
1200S200-97	50	21'11"	19'11"	17'5"	24'7"	21'4"	17'5"	19'11"	18'1"	15'10"	22'4"	20'4"	17'5"
1200S250-97	50	22'9"	20'8"	18'0"	25'5"	22'0"	18'0"	20'8"	18'10"	16'5"	23'3"	21'1"	18'0"
1200S162-118	50	22'5"	20'4"	17'9"	25'2"	22'10"	18'9"	20'4"	18'6"	16'2"	22'10"	20'9"	18'2"
1200S200-118	50	23'4"	21'2"	18'6"	26'2"	23'10"	19'11"	21'2"	19'3"	16'10"	23'10"	21'8"	18'11"
1200S250-118	50	24'3"	22'0"	19'3"	27'3"	24'9"	20'8"	22'0"	20'0"	17'6"	24'9"	22'6"	19'7"
1200S300-118	50	25'0"	22'9"	19'10"	28'1"	25'6"	21'11"	22'9"	20'8"	18'0"	25'6"	23'2"	20'3"
1200S350-118	50	26'4"	23'11"	20'10"	29'6"	26'10"	23'5"	23'11"	21'8"	19'0"	26'10"	24'4"	21'3"
1400S200-54	50	16'10"	12'7"	8'5"	12'11"	10'1"	6'9"	16'10"	12'7"	8'5"	12'11"	10'1"	6'9"
1400S250-54	50	16'10"	12'7"	8'5"	13'1"	10'1"	6'9"	16'10"	12'7"	8'5"	13'1"	10'1"	6'9"
1400S300-54	50	16'10"	12'7"	8'5"	13'2"	10'1"	6'9"	16'10"	12'7"	8'5"	13'2"	10'1"	6'9"
1400S350-54	50	16'10"	12'7"	8'5"	13'5"	10'1"	6'9"	16'10"	12'7"	8'5"	13'5"	10'1"	6'9"
1400S200-68	50	20'4"	17'8"	14'5"	19'9"	16'2"	12'0"	19'10"	17'8"	14'5"	19'9"	16'2"	12'0"
1400S250-68	50	21'2"	18'4"	14'11"	20'3"	16'6"	12'2"	20'8"	18'4"	14'11"	20'3"	16'6"	12'2"
1400S300-68	50	21'8"	18'9"	15'4"	20'6"	16'8"	12'4"	21'2"	18'9"	15'4"	20'6"	16'8"	12'4"
1400S350-68	50	24'2"	20'11"	16'11"	21'10"	17'8"	12'11"	22'9"	20'8"	16'11"	21'10"	17'8"	12'11"
1400S200-97	50	24'10"	22'6"	18'9"	26'6"	22'11"	18'9"	22'6"	20'6"	17'11"	25'4"	22'11"	18'9"
1400S250-97	50	25'9"	23'4"	19'5"	27'5"	23'9"	19'5"	23'4"	21'3"	18'7"	26'3"	23'9"	19'5"
1400S300-97	50	26'6"	24'1"	19'10"	28'1"	24'4"	19'10"	24'1"	21'11"	19'1"	27'0"	24'4"	19'10"
1400S350-97	50	28'0"	25'5"	21'11"	31'0"	26'10"	21'11"	25'5"	23'1"	20'2"	28'6"	25'11"	21'11"
1400S200-118	50	26'7"	24'1"	21'1"	29'10"	26'5"	21'7"	24'1"	21'11"	19'2"	27'1"	24'7"	21'6"
1400S250-118	50	27'6"	25'0"	21'10"	30'11"	27'5"	22'5"	25'0"	22'8"	19'10"	28'1"	25'6"	22'3"
1400S300-118	50	28'5"	25'10"	22'7"	31'11"	28'1"	22'11"	25'10"	23'5"	20'6"	29'0"	26'4"	22'11"
1400S350-118	50	29'9"	27'0"	23'7"	33'5"	30'4"	25'11"	27'0"	24'7"	21'5"	30'4"	27'7"	24'1"
1600S200-68	50	21'5"	18'7"	14'9"	19'3"	15'6"	11'4"	21'5"	18'7"	14'9"	19'3"	15'6"	11'4"
1600S250-68	50	22'4"	19'4"	14'9"	19'8"	15'10"	11'6"	22'4"	19'4"	14'9"	19'8"	15'10"	11'6"
1600S300-68	50	22'11"	19'10"	14'9"	19'11"	16'1"	11'8"	22'11"	19'10"	14'9"	19'11"	16'1"	11'8"
1600S350-68	50	25'9"	22'1"	14'9"	21'1"	16'11"	11'9"	24'8"	22'1"	14'9"	21'1"	16'11"	11'9"
1600S200-97	50	27'7"	24'3"	19'10"	28'0"	24'3"	19'10"	25'1"	22'9"	19'10"	28'0"	24'3"	19'10"
1600S250-97	50	28'7"	25'3"	20'8"	29'2"	25'3"	20'8"	25'11"	23'7"	20'7"	29'2"	25'3"	20'8"
1600S300-97	50	29'5"	25'11"	21'2"	29'11"	25'11"	21'2"	26'9"	24'3"	21'2"	29'11"	25'11"	21'2"
1600S350-97	50	30'10"	28'0"	23'5"	33'2"	28'8"	23'5"	28'0"	25'5"	22'3"	31'5"	28'7"	23'5"
1600S200-118	50	29'7"	26'11"	23'0"	32'6"	28'2"	23'0"	26'11"	24'5"	21'4"	30'2"	27'5"	23'0"
1600S250-118	50	30'7"	27'10"	23'11"	33'10"	29'3"	23'11"	27'10"	25'3"	22'1"	31'3"	28'4"	23'11"
1600S300-118	50	31'7"	28'8"	24'7"	34'9"	30'1"	24'7"	28'8"	26'1"	22'9"	32'2"	29'3"	24'7"
1600S350-118	50	33'0"	30'0"	26'2"	37'0"	33'0"	26'11"	30'0"	27'3"	23'9"	33'8"	30'7"	26'8"

20 PSF DEAD LOAD AND 25 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	11.84 e	10.26 e	8.38 e	11.84 i	10.26 i	8.38 a	11.84 e	10.26 e	8.38 e	11.84 i	10.26 i	8.38 a
600S200-33	33	12.63 e	10.94 e	8.93 e	12.63 i	10.94 a	8.93 a	12.63 e	10.94 e	8.93 e	12.63 i	10.94 a	8.93 a
600S162-43	33	14.64	12.68	10.35 e	14.64 i	12.68 i	10.35 i	14.64	12.68	10.35 e	14.64 i	12.68 i	10.35 i
600S200-43	33	15.10	13.08	10.68 e	15.10 i	13.08 i	10.68 i	15.10	13.08	10.68 e	15.10 i	13.08 i	10.68 i
600S250-43	33	15.50	13.42 e	10.96 e	15.5 i	13.42 i	10.96 i	15.50	13.42 e	10.96 e	15.5 i	13.42 i	10.96 i
600S162-54	50	16.10	14.63	12.78	18.07	16.42	13.85	15.54	14.12	12.34	17.44	15.85	13.84
600S200-54	50	16.92	15.37	13.43	18.99	17.25	14.24	16.33	14.84	12.96	18.33	16.66	14.24
600S250-54	50	17.65	16.03	14.01	19.80	17.87	14.59	17.04	15.48	13.52	19.12	17.37	14.59
600S162-68	50	17.26	15.68	13.70	19.37	17.60	15.37	16.67	15.14	13.23	18.70	16.99	14.84
600S200-68	50	18.15	16.50	14.41	20.37	18.51	16.17	17.53	15.93	13.91	19.67	17.87	15.61
600S250-68	50	19.03	17.29	15.11	21.36	19.40	16.95	18.37	16.70	14.58	20.62	18.74	16.37
600S162-97	50	19.13	17.38	15.18	21.47	19.51	17.04	18.47	16.78	14.66	20.73	18.83	16.45
600S200-97	50	20.16	18.32	16.00	22.62	20.55	17.95	19.46	17.68	15.45	21.84	19.84	17.33
600S250-97	50	21.16	19.23	16.80	23.75	21.58	18.85	20.43	18.57	16.22	22.93	20.83	18.20
600S162-118	50	20.21	18.36	16.04	22.67	20.60	18.00	19.51	17.73	15.48	21.89	19.89	17.38
600S200-118	50	21.32	19.37	16.92	23.93	21.74	18.99	20.59	18.70	16.34	23.10	20.99	18.33
600S250-118	50	22.41	20.36	17.79	25.15	22.85	19.96	21.64	19.66	17.17	24.28	22.06	19.27
800S162-33	33	13.67 e	11.84 e	9.66 e	13.96 a	11.84 a	9.66 a	13.67 e	11.84 e	9.66 e	13.96 a	11.84 a	9.66 a
800S200-33	33	14.67 e	12.71 e	10.37 e	14.67 a	12.71 e	10.37 a	14.67 e	12.71 e	10.37 e	14.67 a	12.71 e	10.37 a
800S162-43	33	16.48 e	14.28 e	11.66 e	16.48 i	14.28 i	11.66 a	16.48 e	14.28 e	11.66 e	16.48 i	14.28 i	11.66 a
800S200-43	33	17.63 e	15.27 e	12.47 e	17.63 i	15.27 i	12.47 a	17.63 e	15.27 e	12.47 e	17.63 i	15.27 i	12.47 a
800S250-43	33	18.08 e	15.66 e	12.79 e	18.08 i	15.66 a	12.79 a	18.08 e	15.66 e	12.97 e	18.08 i	15.66 a	12.97 a

20 PSF DEAD LOAD AND 25 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S162-54	50	20.14	18.30	15.59	22.05	19.10	15.59 i	19.45	17.67	15.43	21.82	19.10	15.59 i
800S200-54	50	21.25	19.31	16.64	23.54	20.39	16.64 i	20.51	18.64	16.28	23.02	20.39	16.64 i
800S250-54	50	22.08	20.06	17.03	24.08	20.86	17.03 i	21.32	19.37	16.92	23.92	20.86	17.03 i
800S162-68	50	21.77	19.78	17.28	24.43	22.20	18.28	21.02	19.10	16.68	23.59	21.43	18.28
800S200-68	50	22.82	20.73	18.11	25.60	23.26	20.13	22.03	20.02	17.48	24.72	22.46	19.62
800S250-68	50	23.80	21.63	18.89	26.71	24.27	19.96	22.98	20.88	18.24	25.79	23.43	19.96
800S162-97	50	24.20	21.99	19.21	27.16	24.68	21.55	23.37	21.23	18.55	26.22	23.82	20.81
800S200-97	50	25.38	23.06	20.14	28.48	25.88	22.60	24.50	22.27	19.45	27.50	24.98	21.82
800S250-97	50	26.52	24.10	21.05	29.77	27.05	23.62	25.61	23.27	20.33	28.74	26.11	22.81
800S162-118	50	25.61	23.27	20.32	28.73	26.11	22.81	24.72	22.46	19.62	27.74	25.21	22.02
800S200-118	50	26.88	24.43	21.34	30.17	27.41	23.94	25.96	23.59	20.60	29.13	26.47	23.12
800S250-118	50	28.12	25.55	22.32	31.56	28.67	25.05	27.15	24.67	21.55	30.47	27.68	24.18
1000S162-43	33	18.26 e	15.81 e	12.91 e	18.26 i	15.81 a	12.91 a	18.26 e	15.81 e	12.91 e	18.26 i	15.81 a	12.91 a
1000S200-43	33	19.69 e	17.05 e	13.92 e	19.69 i	17.05 a	13.92 a	19.69 e	17.05 e	13.92 e	19.69 i	17.05 a	13.92 a
1000S250-43	33	20.25 e	17.54 e	14.32 e	20.25 a	17.54 a	14.32 a	20.25 e	17.54 e	14.32 e	20.25 a	17.54 a	14.32 a
1000S162-54	50	23.93	21.19	17.30	24.46	21.19	17.3 i	23.10	20.99	17.30	24.46	21.19	17.3 i
1000S200-54	50	25.05	22.76	18.59	26.29	22.77 i	18.59 i	24.18	21.97	18.59	26.29	22.77 i	18.59 i
1000S250-54	50	26.44	23.38	19.09 e	27.00	23.38 i	19.09 i	25.52	23.19	19.09 e	27.00	23.38 i	19.09 i
1000S162-68	50	25.95	23.58	20.44	28.90	25.03	20.44	25.06	22.77	19.89	28.12	25.03	20.44
1000S200-68	50	27.12	24.64	21.52	30.43	26.78	21.86	26.18	23.79	20.78	29.38	26.70	21.86
1000S250-68	50	28.43	25.83	22.47	31.78	27.52	22.47 i	27.45	24.94	21.78	30.80	27.52	22.47 i
1000S162-97	50	29.15	26.48	23.13	32.71	29.72	25.96	28.14	25.57	22.33	31.58	28.69	25.06
1000S200-97	50	30.44	27.66	24.16	34.16	31.04	27.11	29.39	26.71	23.33	32.98	29.97	26.18
1000S250-97	50	31.70	28.80	25.16	35.57	32.32	28.23	30.60	27.81	24.29	34.34	31.21	27.26
1000S162-118	50	30.87	28.05	24.51	34.65	31.48	27.50	29.81	27.09	23.66	33.45	30.39	26.55
1000S200-118	50	32.28	29.33	25.62	36.22	32.91	28.75	31.17	28.32	24.74	34.97	31.78	27.76
1000S250-118	50	30.87	28.05	24.51	34.65	31.48	27.50	29.81	27.09	23.66	33.45	30.39	26.55
1200S162-54	50	26.33	22.80	18.62 e	26.33	22.8 i	18.62 i	26.33	22.80	18.62 e	26.33	22.8 i	18.62 i
1200S200-54	50	28.49	24.67	20.14 e	28.49 i	24.67 i	20.14 i	28.49	24.67	20.14 e	28.49 i	24.67 i	20.14 i
1200S250-54	50	29.42	25.48 e	20.8 e	29.42 i	25.48 i	20.8 i	28.93	25.48 i	20.8 e	29.42 i	25.48 i	20.8 i
1200S162-68	50	29.94	27.12	22.14	31.31	27.12	22.14 i	28.91	26.26	22.14	31.31	27.12	22.14 i
1200S200-68	50	31.23	28.37	23.82	33.69	29.18	23.82 i	30.15	27.39	23.82	33.69	29.18	23.82 i
1200S250-68	50	32.52	29.55	24.59	34.78	30.12	24.59 i	31.40	28.53	24.59	34.78	30.12	24.59 i
1200S162-97	50	33.92	30.82	26.92	38.06	34.58	28.72	32.75	29.75	25.99	36.75	33.39	28.72
1200S200-97	50	35.31	32.09	28.03	39.63	36.01	30.66	34.09	30.98	27.06	38.26	34.76	30.37
1200S250-97	50	36.69	33.33	29.12	41.17	37.41	31.68	35.42	32.18	28.11	39.75	36.11	31.55
1200S162-118	50	36.06	32.77	28.62	40.47	36.77	32.12	34.82	31.64	27.64	39.07	35.50	31.01
1200S200-118	50	37.57	34.14	29.82	42.16	38.31	33.46	36.28	32.96	28.79	40.71	36.99	32.31
1200S250-118	50	39.02	35.46	30.97	43.79	39.79	34.76	37.68	34.23	29.90	42.28	38.42	33.56
1200S300-118	50	40.26	36.58	31.95	45.18	41.05	35.86	38.87	35.32	30.85	43.62	39.63	34.62
1200S350-118	50	42.33	38.47	33.60	47.50	43.16	37.70	40.87	37.14	32.44	45.87	41.67	36.40
1400S200-54	50	30.24	26.19 e	21.38 e	30.24 i	26.19 i	21.38 i	30.24	26.19 e	21.38 e	30.24 i	26.19 i	21.38 i
1400S250-54	50	31.42	27.21 e	22.21 e	31.42 i	27.21 i	22.21 a	31.42	27.21 e	22.21 e	31.42 i	27.21 i	22.21 a
1400S300-54	50	32.17 e	27.86 e	22.75 e	32.17 i	27.86 i	22.75 a	32.17 e	27.86 e	22.75 e	32.17 i	27.86 i	22.75 a
1400S350-54	50	36.16 e	31.32 e	25.57 e	36.16 i	31.32 i	25.57 a	35.24 e	31.32 e	25.75 e	36.16 i	31.32 i	25.75 a
1400S200-68	50	35.16	31.12	25.41	35.93	31.12	25.41 i	33.95	30.85	25.41	35.93	31.12	25.41 i
1400S250-68	50	36.59	32.29	26.36	37.29	32.29	26.36 i	35.33	32.10	26.36	37.29	32.29	26.36 i
1400S300-68	50	37.55	33.05	26.98 e	38.16	33.05 i	26.98 i	36.26	33.05	26.98 e	38.16	33.05 i	26.98 i
1400S350-68	50	40.26	36.58	30.13 e	42.61	36.9 i	30.13 i	38.87	35.32	30.13 e	42.61	36.9 i	30.13 i
1400S200-97	50	29.12	36.28	31.69	31.68	40.43	33.01	28.11	35.03	30.60	31.55	39.30	33.01
1400S250-97	50	41.41	37.62	32.86	46.46	41.91	34.21	39.98	36.32	31.73	44.86	40.76	34.21
1400S300-97	50	42.67	38.77	33.86	47.88	42.89	35.02	41.19	37.43	32.70	46.23	42.00	35.02
1400S350-97	50	45.01	40.90	35.73	50.51	45.90	38.62	43.46	39.49	34.49	48.77	44.31	38.62
1400S200-118	50	42.74	38.84	33.93	47.97	43.58	38.07	41.27	37.50	32.76	46.31	42.08	36.76
1400S250-118	50	44.28	40.24	35.15	49.69	45.15	39.44	42.75	38.85	33.93	47.98	43.59	38.08
1400S300-118	50	45.74	41.56	36.30	51.32	46.64	40.45	44.16	40.12	35.05	49.55	45.03	39.33
1400S350-118	50	47.87	43.50	38.00	53.72	48.81	42.64	46.22	42.00	36.69	51.87	47.13	41.17
1600S200-68	50	37.78	31.72	26.71 e	37.78	31.72 i	26.71 i	37.61	32.72	26.71 e	37.78	31.72 i	26.71 i
1600S250-68	50	39.38	31.11	27.85 e	39.38	31.11 i	27.85 i	39.11	31.11	27.85 e	39.38	31.11 i	27.85 i
1600S300-68	50	40.48	35.06	28.62 e	40.48 i	35.06 i	28.62 i	40.10	35.06	28.62 e	40.48 i	35.06 i	28.62 i
1600S350-68	50	43.76	39.31 e	32.09 e	45.39 i	39.31 i	32.09 a	42.25	38.39 e	32.09 e	45.39 i	39.31 i	32.09 a
1600S200-97	50	44.39	40.33	34.97	49.46	42.84	34.97	42.86	38.94	34.01	48.09	42.84	34.97
1600S250-97	50	45.97	41.77	36.38	51.46	44.57	36.38	44.38	40.33	35.23	49.81	44.57	36.38
1600S300-97	50	47.33	43.01	37.36	52.84	45.76	37.36	45.70	41.52	36.27	51.28	45.76	37.36
1600S350-97	50	49.61	45.08	39.38	55.67	50.59	41.32	47.90	43.52	38.02	53.75	48.84	41.32
1600S200-118	50	47.64	43.28	37.81	53.46	48.57	40.55	45.99	41.79	36.50	51.61	46.90	40.55
1600S250-118	50	49.26	44.76	39.10	55.28	50.23	42.18	47.56	43.22	37.75	53.37	48.49	42.18
1600S300-118	50	50.81	46.17	40.33	57.02	51.81	43.32	49.06	44.58	38.94	55.05	50.02	43.32
1600S350-118	50	53.09	48.24	42.14	59.57	54.13	47.28	51.26	46.57	40.68	57.52	52.26	45.65

20 PSF DEAD LOAD AND 40 PSF LIVE LOAD

MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	10.26 e	8.88 e	7.25 e	10.26 i	8.88 a	7.25 a	10.26 e	8.88 e	7.25 e	10.26 i	8.88 a	7.25 a
600S200-33	33	10.94 e	9.47 e	7.74 e	10.94 a	9.47 a	7.74 a	10.94 e	9.47 e	7.74 e	10.94 a	9.47 a	7.74 a
600S162-43	33	12.68	10.98 e	8.97 e	12.68 i	10.98 i	8.97 a	12.39	10.98 e	8.97 e	12.68 i	10.98 i	8.97 a
600S200-43	33	13.08	11.33 e	9.25 e	13.08 i	11.33 i	9.25 a	13.01	11.33 e	11.33 e	13.08 i	11.33 i	9.25 a
600S250-43	33	13.42 e	11.62 e	9.49 e	13.42 i	11.62 i	9.49 a	13.42 e	11.62 e	9.49 e	13.42 i	11.62 i	9.49 a
600S162-54	50	14.63	13.29	14.63	16.41	14.70	16.41	13.29	12.08	13.29	14.91	13.55	14.91
600S200-54	50	15.37	13.97	12.20	17.25	15.11	12.34 i	13.97	12.69	11.08	15.67	14.24	12.34 i
600S250-54	50	16.03	14.57	12.63	17.86	15.47	12.63 i	14.57	13.24	11.56	16.35	14.85	12.63 i
600S162-68	50	15.68	14.25	12.45	17.60	15.99	13.97	14.25	12.95	11.31	15.99	14.53	12.69
600S200-68	50	16.49	14.99	13.09	18.51	16.82	14.69	14.99	13.62	11.89	16.82	15.28	13.35
600S250-68	50	17.29	15.71	13.72	19.40	17.63	14.73	15.71	14.27	12.47	17.63	16.02	13.99
600S162-97	50	17.38	15.79	13.80	19.50	17.72	15.48	15.79	14.35	12.53	17.72	16.10	14.06
600S200-97	50	18.31	16.64	14.54	20.55	18.67	16.31	16.64	15.12	13.21	18.67	16.97	14.82
600S250-97	50	19.23	17.47	15.26	21.58	19.61	17.13	17.47	15.87	13.87	19.60	17.81	15.56
600S162-118	50	18.36	16.68	14.57	20.60	18.72	16.35	16.68	15.16	13.24	18.72	17.01	14.86
600S200-118	50	19.37	17.60	15.38	21.74	19.75	17.25	17.60	15.99	13.97	19.75	17.95	15.68
600S250-118	50	20.36	18.50	16.16	22.85	20.76	18.14	18.50	16.81	14.68	20.76	18.86	16.48
800S162-33	33	11.84 e	10.25 e	7.9 e	11.84 a	10.25 a	8.37 a	11.84 e	10.25 e	7.9 e	11.84 a	10.25 a	8.37 a
800S200-33	33	12.71 e	11.01 e	7.9 e	12.71 a	11.01 a	8.98 a	12.71 e	11.01 e	7.9 e	12.71 a	11.01 a	8.98 a
800S162-43	33	14.28 e	12.36 e	10.09 e	14.28 i	12.36 a	10.09 a	14.28 e	12.36 e	10.09 e	14.28 i	12.36 a	10.09 a
800S200-43	33	15.27 e	13.23 e	10.80 e	15.27 i	13.23 a	10.80 a	15.27 e	13.23 e	10.80 e	15.27 i	13.23 a	10.80 a
800S250-43	33	15.66 e	13.56 e	11.07 e	15.66 a	13.56 a	11.07 a	15.66 e	13.56 e	11.07 e	15.66 a	13.56 a	11.07 a
800S162-54	50	18.30	16.54	13.51	19.10	16.54	13.51 i	16.63	15.11	13.20	18.66	16.54	13.51 i
800S200-54	50	19.30	17.54	14.41	20.38	17.65 i	14.41 i	17.54	15.94	13.92	19.68	17.65 i	14.41 i
800S250-54	50	20.06	18.06	14.75 e	20.85	18.06 i	14.75 i	18.23	16.56	14.47 e	20.45	18.06 i	14.75 i
800S162-68	50	19.78	17.97	15.70	22.19	19.40	15.83	17.97	16.33	14.26	20.16	18.32	15.83
800S200-68	50	20.73	18.84	16.45	23.26	21.14	17.44 i	18.83	17.11	14.95	21.14	19.20	16.78 i
800S250-68	50	21.63	19.65	17.16	24.27	21.17	17.29 i	19.65	17.85	15.59	22.05	20.03	17.29 i
800S162-97	50	21.99	19.98	17.45	24.67	22.42	19.58	19.98	18.15	15.86	22.42	20.37	17.79
800S200-97	50	23.06	20.95	18.30	25.88	23.51	20.54	20.95	19.04	16.63	23.51	19.04	18.66
800S250-97	50	24.10	21.90	19.13	27.04	24.57	21.46	21.90	19.90	17.38	24.57	22.33	19.50
800S162-118	50	23.26	21.14	18.46	26.11	23.72	20.72	21.14	19.21	16.78	23.72	21.55	18.83
800S200-118	50	24.43	22.19	19.39	27.41	24.91	21.76	22.19	20.16	17.61	24.90	22.63	19.77
800S250-118	50	25.55	23.22	20.28	28.67	26.05	22.76	23.21	21.09	18.43	26.05	23.67	20.68
1000S162-43	33	15.81 e	13.69 e	11.18 e	15.81 a	13.69 a	11.18 a	15.81 e	13.69 e	11.18 e	15.81 a	13.69 a	11.18 a
1000S200-43	33	17.05 e	14.77 e	12.06 e	17.05 a	14.77 a	12.06 a	17.05 e	14.77 e	12.06 e	17.05 a	14.77 a	12.06 a
1000S250-43	33	17.54 e	15.19 e	12.40 e	17.54 a	15.19 a	12.40 a	17.54 e	15.19 e	12.40 e	17.54 a	15.19 a	12.40 a
1000S162-54	50	21.18	18.35	14.98 e	21.18	18.35 i	14.98 i	19.75	17.95	14.98 e	21.18	18.35 i	14.98 i
1000S200-54	50	22.76	19.72	16.10 e	22.76 i	19.75 i	16.10 i	20.68	18.79	16.10 e	22.76 i	19.75 i	16.10 i
1000S250-54	50	23.38	20.25	16.53 e	23.38 i	20.25 i	16.53 i	21.82	19.83	16.53 e	23.38 i	20.25 i	16.53 i
1000S162-68	50	23.58	21.42	17.70	25.03	21.68	17.70 i	21.42	19.47	17.00	24.04	21.68	17.70 i
1000S200-68	50	24.64	22.39	18.93	26.78	23.19	18.93 i	22.38	20.34	17.77	25.12	22.82	18.93 i
1000S250-68	50	25.83	23.47	19.46	27.52	23.84	19.46 i	23.47	21.32	18.62	26.33	23.84	19.46 i
1000S162-97	50	26.48	24.06	21.02	29.72	27.00	22.68	24.06	21.86	19.10	27.00	24.53	21.43
1000S200-97	50	27.66	25.13	21.95	31.04	28.20	24.13	25.13	22.83	19.95	28.20	25.62	22.38
1000S250-97	50	28.80	26.17	22.86	32.32	29.37	25.65	26.17	23.78	20.77	29.36	26.68	23.31
1000S162-118	50	28.05	25.49	22.26	31.48	28.60	24.98	25.49	23.16	20.23	28.60	25.99	22.70
1000S200-118	50	29.33	26.65	23.28	32.91	29.90	26.12	26.65	24.21	21.15	29.90	27.17	23.73
1000S250-118	50	30.56	27.77	24.26	34.29	31.16	27.22	27.77	25.23	22.04	31.16	28.31	24.73
1200S162-54	50	22.80	19.75 e	16.12 e	22.80 i	19.75 i	16.12 i	22.73	19.75 e	16.12 e	22.80 i	19.75 i	16.12 i
1200S200-54	50	24.67	21.37 e	17.44 e	24.67 i	21.37 i	17.44 a	23.76	21.37 e	17.44 e	24.67 i	21.37 i	17.44 a
1200S250-54	50	25.48 e	22.07 e	18.02 e	25.48 i	22.07 i	18.02 a	24.73 i	22.07 e	18.02 e	25.48 i	22.07 i	18.02 a
1200S162-68	50	27.12	23.49	19.17	27.12	23.49	19.17 i	24.71	22.46	19.17	27.12	23.49	19.17 i
1200S200-68	50	28.37	25.27	20.63 e	29.17	25.27 i	20.63 i	25.78	23.42	20.46 e	28.92	25.27 i	20.63 i
1200S250-68	50	29.55	26.09	21.30 e	30.12	26.09 i	21.30 i	26.85	24.39	21.30 e	30.12	26.09 i	21.30 i
1200S162-97	50	30.81	28.00	24.46	34.58	30.47	24.88	28.00	25.44	22.22	31.42	28.55	24.88
1200S200-97	50	32.08	29.15	25.46	36.00	32.53	26.56	29.15	26.49	23.14	32.71	29.72	25.96
1200S250-97	50	33.33	30.29	26.45	37.40	33.60	27.43	30.28	27.52	24.04	33.98	30.88	26.97
1200S162-118	50	32.77	29.77	26.01	36.77	33.41	28.61	29.77	27.05	23.63	33.41	30.35	26.51
1200S200-118	50	34.14	31.02	27.09	38.31	34.81	30.40	31.01	28.18	24.62	34.80	31.62	27.62
1200S250-118	50	35.46	32.22	28.14	39.79	36.15	31.51	32.21	29.27	25.57	36.15	32.85	28.69
1200S300-118	50	36.58	33.24	29.03	41.05	37.30	32.58	33.23	30.20	26.38	37.29	33.89	29.60
1200S350-118	50	38.46	34.95	30.53	43.16	39.22	34.26	34.95	31.75	27.74	39.21	35.63	31.12
1400S200-54	50	26.19 e	22.68 e	18.52 e	26.19 i	22.68 i	18.52 a	26.19 e	22.68 e	18.52 e	26.19 i	22.68 i	18.52 a
1400S250-54	50	27.21 e	23.56 e	19.24 e	27.21 i	23.56 i	19.24 a	27.21 e	23.56 e	19.24 e	27.21 i	23.56 i	19.24 a
1400S300-54	50	27.86 e	24.13 e	19.62 e	27.86 i	24.13 a	19.70 i	27.86 e	24.13 e	19.62 e	27.86 i	24.13 a	19.70 i
1400S350-54	50	31.32 e	27.13 e	19.62 e	31.32 i	27.13 a	22.15 a	30.13 e	27.13 e	19.62 e	31.32 i	27.13 a	22.15 a
1400S200-68	50	31.12	26.95	22.01 e	31.12	26.95 i	22.01 i	29.03	26.37	22.01 e	31.12	26.95 i	22.01 i
1400S250-68	50	32.29	27.97	22.83 e	32.29	27.97 i	22.83 i	30.20	27.44	22.83 e	32.29	27.97 i	22.83 i
1400S300-68	50	33.05	28.62	23.37 e	33.05 i	28.62 i	23.37 i	31.00	28.17	23.37 e	33.05 i	28.62 i	23.37 i
1400S350-68	50	36.57	31.96 e	26.09 e	36.90 i	31.96 i	26.09 i	33.23	30.19	26.09 e	36.90 i	31.96 i	26.09 i
1400S200-97	50	36.28	32.96	28.58	40.42	35.01	28.58	32.96	29.95	26.16	36.98	33.61	28.58
1400S250-97	50	37.62	34.18	29.63	41.90	36.30	29.63	34.18	31.06	27.13	38.36	34.85	29.63
1400S300-97	50	38.77	35.22	30.33	42.89	37.15	30.33	35.22	32.00	27.95	39.52	35.91	30.33

20 PSF DEAD LOAD AND 40 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
1400S350-97	50	40.90	37.16	32.46	45.89	40.97	33.44 i	37.16	33.76	29.49	41.70	37.89	33.09 i
1400S200-118	50	36.28	32.96	28.58	40.42	35.01	28.58	32.96	29.95	26.16	36.98	33.61	28.58
1400S250-118	50	37.62	34.18	29.63	41.90	36.30	29.63	34.18	31.06	27.13	38.36	34.85	29.63
1400S300-118	50	38.77	35.22	30.33	42.89	37.15	30.33	35.22	32.00	27.95	39.52	35.91	30.33
1400S350-118	50	40.90	37.16	32.46	45.89	40.97	33.44 i	37.16	33.76	29.49	41.70	37.89	33.09 i
1600S200-68	50	32.72	28.34 e	23.13 e	32.72 i	28.34 i	23.13 i	32.16	28.34 e	23.13 e	32.72 i	28.34 i	23.13 i
1600S250-68	50	34.11	29.54 e	24.12 e	34.11 i	29.54 i	24.12 a	33.44	29.54 e	24.12 e	34.11 i	29.54 i	24.12 a
1600S300-68	50	35.06	30.36 e	24.79 e	35.06 i	30.36 i	24.79 a	34.29	30.36 e	24.79 e	35.06 i	30.36 i	24.79 a
1600S350-68	50	39.31 e	34.04 e	27.79 e	39.31 i	34.04 i	27.79 a	36.13 e	32.83 e	27.79 e	39.31 i	34.04 i	27.79 a
1600S200-97	50	40.33	36.64	30.29	42.83	37.10	30.29	36.64	33.29	29.08	41.12	37.10	30.29
1600S250-97	50	41.77	37.95	31.51	44.56	38.60	31.51 i	37.95	34.48	30.12	42.58	38.60	31.51 i
1600S300-97	50	43.00	39.08	32.36	45.76	39.63	32.36 i	39.07	35.50	31.01	43.85	39.63	32.36 i
1600S350-97	50	45.08	40.96	35.78	50.58	43.83	35.75 i	40.95	37.21	32.51	45.96	41.76	35.75 i
1600S200-118	50	43.28	39.33	34.35	48.57	43.02	35.12	39.32	35.73	31.21	44.13	40.10	35.02
1600S250-118	50	44.76	40.67	35.52	50.22	44.75	36.53	40.66	36.95	32.28	45.63	41.46	36.22
1600S300-118	50	46.17	41.95	36.64	51.81	45.96	37.52	41.95	38.11	33.29	47.07	42.77	37.36
1600S350-118	50	48.23	43.83	38.28	54.13	49.18	41.15	43.82	39.82	34.78	49.18	44.68	39.03

25 PSF DEAD LOAD AND 40 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33.00	9.86 e	8.54 e	6.97 e	9.86 a	8.54 a	6.97 a	9.86 e	8.54 e	6.97 e	9.86 a	8.54 a	6.97 a
600S200-33	33.00	10.51 e	9.1 e	7.43 e	10.51 a	9.1 a	7.43 a	10.51 e	9.1 e	7.43 e	10.51 a	9.2 a	7.43 a
600S162-43	33.00	12.18	10.55 e	8.61 e	12.18 i	10.55 i	8.61 a	12.18	10.55 e	8.61 e	12.18 i	10.55 i	8.61 a
600S200-43	33.00	12.56 e	10.88 e	8.88 e	12.56 i	10.88 i	8.88 a	12.56 e	10.88 e	8.88 e	12.56 i	10.88 i	8.88 i
600S250-43	33.00	12.89 e	11.17 e	9.12 e	12.89 i	11.17 i	9.12 a	12.89 e	11.17 e	9.12 e	12.89 i	11.17 i	9.12 a
600S162-54	50.00	14.25	13.25	11.53	16.30	14.12	11.53 i	13.25	12.00	10.50	14.70	13.50	11.53 i
600S200-54	50.00	15.33	13.92	11.85	16.75	14.52	11.85 i	13.92	12.67	11.08	15.65	14.17	11.85 i
600S250-54	50.00	16.00	14.50	12.14	17.16	14.88	12.14 i	14.50	13.17	11.50	16.33	14.83	12.14 i
600S162-68	50.00	15.25	13.85	12.00	17.58	15.92	13.92	14.17	12.92	11.25	15.92	14.50	12.67
600S200-68	50.00	16.00	14.50	13.00	18.50	16.75	14.27	14.92	13.58	11.85	16.75	15.25	13.33
600S250-68	50.00	16.75	15.25	13.33	19.33	17.34	14.16	15.67	14.25	12.42	17.58	16.00	13.92
600S162-97	50.00	16.92	15.33	13.42	19.50	17.67	15.42	15.75	14.33	12.50	17.67	16.08	14.00
600S200-97	50.00	17.83	16.08	14.08	20.50	18.67	16.25	16.50	15.08	13.17	18.67	16.92	14.75
600S250-97	50.00	18.67	17.00	14.83	21.50	19.50	17.08	17.42	15.83	13.83	19.50	17.67	15.50
600S162-118	50.00	17.83	16.17	14.17	20.58	18.67	16.33	16.67	15.08	13.17	18.67	16.92	14.83
600S200-118	50.00	18.83	17.08	14.92	21.70	19.75	17.25	17.58	15.92	13.92	19.75	17.92	15.58
600S250-118	50.00	19.80	18.00	15.70	22.83	20.75	18.08	18.50	16.80	14.70	20.75	18.83	16.42
800S162-33	33.00	11.37 e	9.85 e	7.29 e	11.37 a	9.85 a	8.04 a	11.37 e	9.85 e	7.29 e	11.37 a	9.85 a	8.04 a
800S200-33	33.00	12.21 e	10.57 e	7.29 e	12.21 a	10.57 a	8.63 a	12.21 e	10.57 e	7.29 e	12.21 a	10.57 a	8.63 a
800S162-43	33.00	13.72 e	11.88 e	9.7 e	13.72 i	11.88 a	9.7 a	13.72 e	11.88 e	9.7 e	13.72 i	11.88 a	9.7 a
800S200-43	33.00	14.67 e	12.71 e	10.38 e	14.67 a	12.71 a	10.38 a	14.67 e	12.71 e	10.38 e	14.67 a	12.71 a	10.38 a
800S250-43	33.00	15.05 e	13.03 e	10.64 e	15.05 a	13.03 a	10.64 a	15.5 e	13.03 e	10.64 e	15.5 a	13.03 a	10.64 a
800S162-54	50.00	17.75	15.89	12.98	18.35	15.89 i	12.98 i	16.50	15.89	12.98	18.35	15.89 i	12.98 i
800S200-54	50.00	18.75	16.96	13.85 e	19.58	16.96 i	13.85 i	17.50	15.92	13.85 e	19.58	16.96 i	13.85 i
800S250-54	50.00	19.50	17.35	14.17 e	20.04	17.35 i	14.17 i	18.17	16.50	14.17 e	20.04	17.35 i	14.17 i
800S162-68	50.00	19.25	17.42	15.21	21.51	18.63	15.21	17.92	16.25	14.25	20.08	18.25	15.21
800S200-68	50.00	20.08	18.25	16.00	23.25	20.52	16.75 i	18.75	17.00	14.92	21.00	19.17	16.75 i
800S250-68	50.00	21.00	19.00	16.61	23.49	20.34	16.61 i	19.50	17.83	15.50	22.00	20.00	16.61 i
800S162-97	50.00	21.33	19.42	16.92	24.67	22.33	19.50	19.92	18.08	15.83	22.33	20.33	17.75
800S200-97	50.00	22.42	20.33	17.75	25.75	23.50	20.50	20.92	19.00	16.50	23.50	21.33	18.50
800S250-97	50.00	23.42	21.25	18.50	27.00	24.50	21.42	21.83	19.83	17.33	24.50	22.25	19.50
800S162-118	50.00	22.60	20.58	17.92	26.08	23.67	20.67	21.08	19.20	16.75	23.67	21.50	18.75
800S200-118	50.00	23.75	21.58	18.83	27.40	24.83	21.75	22.17	20.08	17.58	24.83	22.58	19.75
800S250-118	50.00	24.83	22.58	19.70	28.67	26.00	22.75	23.17	21.00	18.00	26.00	23.67	20.67
1000S162-43	33.00	15.19 e	13.06 e	10.74 e	15.19 a	13.16 a	10.74 a	15.19 e	13.16 e	10.74 e	15.19 a	13.16 a	10.74 a
1000S200-43	33.00	16.38 e	14.19 e	11.58 e	16.38 a	14.19 a	11.58 a	16.38 e	14.19 e	11.58 e	16.38 a	14.19 a	11.58 a
1000S250-43	33.00	16.85 e	14.61 e	11.91 e	16.85 a	14.61 a	11.91 a	16.85 e	14.61 e	11.91 e	16.85 a	14.61 a	11.91 a
1000S162-54	50.00	20.35	17.63	14.39 e	20.35	17.63 i	14.39 i	19.75	17.63	14.39 e	20.35	17.63 i	14.39 i
1000S200-54	50.00	21.87	18.94	15.47 e	21.87 i	18.94	15.47 i	20.67	18.75	15.47 e	21.87 i	18.94	15.47 i
1000S250-54	50.00	22.46	19.45 e	15.88 e	22.46 i	19.45 i	15.88 i	21.75	19.45 e	15.88 e	22.46 i	19.45 i	15.88 i
1000S162-68	50.00	22.92	20.83	17.01	24.05	20.83	17.01 i	21.42	19.25	17.00	24.00	20.83	17.01 i
1000S200-68	50.00	23.92	21.75	18.19	25.73	22.28	18.19 i	22.33	20.33	17.75	25.08	20.28	18.19 i
1000S250-68	50.00	25.00	22.83	18.70	26.44	22.90	18.70 i	23.42	21.25	18.58	26.25	22.90	18.70 i
1000S162-97	50.00	25.75	23.42	20.42	29.67	27.00	23.50	24.00	21.83	19.08	26.92	24.50	21.42
1000S200-97	50.00	26.92	24.42	21.33	31.00	28.17	24.50	25.08	22.83	19.92	28.17	25.50	22.33
1000S250-97	50.00	28.00	25.42	22.25	32.17	29.33	25.50	26.08	23.75	20.75	29.33	26.67	23.25
1000S162-118	50.00	27.25	24.75	21.67	31.42	28.50	24.92	25.42	23.08	20.17	28.50	25.92	22.67
1000S200-118	50.00	28.50	25.92	22.65	32.83	29.83	26.08	26.58	24.17	21.08	29.83	27.17	23.67

25 PSF DEAD LOAD AND 40 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
100S250-118	50.00	29.75	27.00	23.58	34.25	31.08	27.17	27.67	25.17	22.00	31.08	28.25	24.67
120S162-54	50.00	21.91	18.97 e	15.49 e	21.91 i	18.97 i	15.49 a	21.91	18.97 e	15.49 e	21.91 i	18.97 i	15.49 a
120S200-54	50.00	23.7 e	20.53 e	16.75 e	23.7 i	20.53 i	16.75 a	23.7 e	20.53 e	16.75 e	23.7 i	20.53 i	16.75 a
120S250-54	50.00	24.48 e	21.2 e	17.31 e	24.48 i	21.2 i	17.31 a	24.48 e	21.2 e	17.31 e	24.48 i	21.2 i	17.31 a
120S162-68	50.00	26.05	22.57	18.42	26.05	22.57	18.42 i	24.50	22.42	18.42	26.05	22.75	18.42 i
120S200-68	50.00	27.50	24.28	19.82 e	28.03	24.28 i	19.82 i	25.75	23.42	19.82 e	28.03	24.28 i	19.82 i
120S250-68	50.00	28.75	25.06	20.46 e	28.94	25.06 i	20.46 i	26.83	24.33	20.46 e	28.94	25.06 i	20.46 i
120S162-97	50.00	30.00	27.25	23.75	33.80	29.27	23.90	27.92	25.42	22.17	31.33	28.50	23.90
120S200-97	50.00	31.17	28.33	24.75	36.00	31.25	25.51	29.08	26.42	23.08	32.67	29.67	25.51
120S250-97	50.00	32.42	29.42	25.75	37.27	32.28	26.36	30.25	27.50	24.00	33.92	30.83	26.36
120S162-118	50.00	31.83	28.92	25.32	36.75	33.33	29.17	29.67	27.00	23.58	33.33	30.33	26.50
120S200-118	50.00	33.23	30.17	26.33	38.25	34.80	30.33	31.00	28.17	24.52	34.75	31.58	27.58
120S250-118	50.00	34.52	31.37	27.40	38.74	35.20	30.27	32.21	29.27	25.57	36.15	32.85	28.69
120S300-118	50.00	35.62	32.36	28.27	39.97	36.31	31.72	33.23	30.20	26.38	37.29	33.89	29.60
120S350-118	50.00	37.45	34.03	29.72	42.02	38.19	33.35	34.95	31.75	27.74	39.21	35.63	31.12
140S200-54	50.00	25.16 e	21.79 e	17.79 e	25.16 i	21.79 i	17.79 a	25.16 e	21.79 e	17.79 e	25.16 i	21.79 i	17.79 a
140S250-54	50.00	26.14 e	22.64 e	18.11 e	26.14 i	22.64 i	18.11 a	26.14 e	22.64 e	18.11 e	26.14 i	22.64 i	18.11 a
140S300-54	50.00	26.77 e	23.18 e	18.11 e	26.77 i	23.18 i	18.11 a	26.77 e	23.18 e	18.11 e	26.77 i	23.18 i	18.11 a
140S350-54	50.00	30.09 e	26.06 e	18.11 e	30.09 a	26.06 a	18.11 a	30.09 e	26.06 e	18.11 e	30.09 a	26.06 a	18.11 a
140S200-68	50.00	29.90	25.90	21.14 e	29.90	25.9 i	21.14 i	29.00	25.14	21.14 e	29.90	25.9 i	21.14 i
140S250-68	50.00	31.02	26.87	21.94 e	31.02 i	26.87 i	21.94 i	30.17	26.87	21.94 e	31.02 i	26.87 i	21.94 i
140S300-68	50.00	31.75	27.50	22.45 e	31.75 i	27.5 i	22.45 i	30.92	27.50	22.45 e	31.75 i	27.5 i	22.45 i
140S350-68	50.00	35.45	30.71 e	25.07 e	35.45 i	30.70 i	25.07 a	33.17	30.17 e	25.07 e	35.45 i	30.71 i	25.07 a
140S200-97	50.00	35.25	32.08	27.46	38.84	33.64	27.46	32.92	29.92	26.08	36.92	33.60	27.46
140S250-97	50.00	36.50	33.25	28.47	40.26	34.87	28.47	34.17	31.00	27.08	38.33	34.80	28.47
140S300-97	50.00	37.67	34.25	29.14	41.20	35.69	29.14	35.17	32.00	27.92	39.50	35.69	29.14
140S350-97	50.00	39.75	36.17	31.50	45.44	39.36	32.13 i	37.08	33.75	29.42	41.67	37.83	32.13 i
140S200-118	50.00	37.81	34.36	30.01	42.43	38.56	31.68	35.29	32.06	28.01	39.60	35.98	31.43
140S250-118	50.00	39.17	35.59	31.09	43.96	39.94	32.86	36.55	33.21	29.01	41.02	37.27	32.56
140S300-118	50.00	40.46	36.76	32.11	45.40	41.23	33.66	37.76	34.31	29.97	42.37	38.50	33.63
140S350-118	50.00	42.35	38.48	33.61	47.53	43.18	37.72	39.52	35.91	31.37	44.35	40.30	35.20
160S200-68	50.00	31.43	27.22 e	22.23 e	31.43 i	27.22 i	22.23 a	31.43	27.22 e	22.23 e	31.43 i	27.22 i	22.23 a
160S250-68	50.00	32.77	28.38 e	23.17 e	32.77 i	28.38 i	23.17 a	32.77	28.38 e	23.17 e	32.77 i	28.38 i	23.17 a
160S300-68	50.00	33.68 e	29.17 e	23.82 e	33.68 i	29.17 i	23.82 a	33.68 e	29.17 e	23.82 e	33.68 i	29.17 i	23.82 a
160S350-68	50.00	37.76 e	32.71 e	26.7 e	37.76 i	32.71 e	26.7 a	36.08 e	32.71 e	26.7 e	37.76 i	32.71 i	26.7 a
160S200-97	50.00	39.25	35.64	29.10	41.15	35.64	29.1 i	36.50	33.25	29.00	41.00	35.64	29.1 i
160S250-97	50.00	40.50	36.92	30.27	42.80	37.08	30.27 i	37.92	34.42	30.00	42.00	37.08	30.27 i
160S300-97	50.00	41.83	38.00	31.00	43.96	38.08	31 i	39.00	35.42	31.00	43.83	38.08	31 i
160S350-97	50.00	43.83	39.83	34.38	48.62	42.11	34.38 i	40.83	37.17	32.50	45.92	41.75	34.38 i
160S200-118	50.00	42.14	38.29	33.45	47.29	41.33	33.74	39.32	35.73	31.21	44.13	40.10	33.74
160S250-118	50.00	43.58	39.60	34.59	48.90	42.99	35.10	40.66	36.95	32.28	45.63	41.46	35.10
160S300-118	50.00	44.95	40.84	35.68	50.44	44.16	36.05	41.95	38.11	33.29	47.07	42.77	36.05
160S350-118	50.00	46.96	42.67	37.27	52.70	47.89	39.53	43.82	39.82	34.78	49.18	44.68	39.03

30 PSF DEAD LOAD AND 100 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	6.97 e	6.04 e	4.91 e	6.97 a	6.04 a	4.93 a	6.97 e	6.04 e	4.91 e	6.97 a	6.04 a	4.93 a
600S200-33	33	7.43 e	6.44 e	4.91 e	7.43 a	6.44 a	5.26 a	7.43 e	6.44 e	4.91 e	7.43 a	6.44 a	5.26 a
600S162-43	33	8.61 e	7.46 e	6.09 e	8.61 a	7.46 a	6.09 a	8.61 e	7.46 e	6.09 e	8.61 a	7.46 a	6.09 a
600S200-43	33	8.88 e	7.69 e	6.28 e	8.88 a	7.69 a	6.28 a	8.88 e	7.69 e	6.28 e	8.88 a	7.69 a	6.28 a
600S250-43	33	9.12 e	7.9 e	6.45 e	9.12 a	7.9 a	6.45 a	9.12 e	7.9 e	6.45 e	9.12 a	7.9 a	6.45 a
600S162-54	50	10.78	9.79	8.15 e	11.52 i	9.98 i	8.15 i	9.79	8.90	7.77 e	10.99 i	9.98 i	8.15 a
600S200-54	50	11.33	10.27	8.38 e	11.85 i	10.27 i	8.38 i	10.29	9.35	8.17 e	11.55 i	10.27 i	8.38 i
600S250-54	50	11.81	10.51 e	8.58 e	12.14 i	10.51 i	8.58 i	10.73	9.75 e	8.52 e	12.04 i	10.51 i	8.58 i
600S162-68	50	11.56	10.50	9.17	12.97	11.72 i	9.57 i	10.50	9.54	8.33	11.78	10.7 i	9.35 i
600S200-68	50	12.15	11.04	9.65 e	13.64	12.36 i	10.09 i	11.04	10.03	8.76 e	12.39	11.26 i	9.83 i
600S250-68	50	12.74	11.58	10.01 e	14.16	12.26 i	10.01 i	11.58	10.52	9.19 e	12.99	11.8 i	10.01 i
600S162-97	50	12.81	11.64	10.16	14.37	13.06	11.41	11.64	10.57	9.23	13.06	11.86	10.36
600S200-97	50	13.49	12.26	10.71	15.14	13.76	12.02	12.26	11.14	9.73	13.76	12.50	10.92
600S250-97	50	14.17	12.87	11.25	15.90	14.45	12.62	12.87	11.70	10.22	14.44	13.13	11.46
600S162-118	50	13.53	12.29	10.74	15.18	13.79	12.05	12.29	11.17	9.75	13.79	12.53	10.95
600S200-118	50	14.27	12.97	11.33	16.02	14.55	12.71	12.97	11.78	10.29	14.55	13.22	11.55
600S250-118	50	15.00	13.63	11.91	16.84	15.30	13.36	13.63	12.39	10.82	15.30	13.90	12.14
800S162-33	33	7.29 e	5.47 e	3.65 e	8.04 a	6.97 a	4.86 a	7.29 e	5.47 e	3.65 e	8.04 a	6.97 a	4.86 a
800S200-33	33	7.29 e	5.47 e	3.65 e	8.63 a	7.29 a	4.86 a	7.29 e	5.47 e	3.65 e	8.63 a	7.29 a	4.86 a
800S162-43	33	9.7 e	8.4 e	6.86 e	9.7 a	8.4 a	6.86 a	9.7 e	8.4 e	6.86 e	9.7 a	8.4 a	6.86 a
800S200-43	33	10.38 e	8.99 e	7.34 e	10.38 a	8.99 a	7.34 a	10.38 e	8.99 e	7.34 e	10.38 a	8.99 a	7.34 a

30 PSF DEAD LOAD AND 100 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S250-43	33	10.64 e	9.21 e	7.52 e	10.64 a	9.21 a	7.52 a	10.64 e	9.21 e	7.52 e	10.64 a	9.21 a	7.52 a
800S162-54	50	12.98	11.24 e	9.14 e	12.98 i	11.24 i	9.17 a	12.25	11.13 e	9.17 e	12.98 i	11.24 i	9.17 a
800S200-54	50	13.85 e	11.99 e	9.79 e	13.85 i	11.99 i	9.79 a	12.92 e	11.74 e	9.79 e	13.85 i	11.99 i	9.79 a
800S250-54	50	14.17 e	12.27 e	10.02 e	14.17 i	12.27 i	10.02 a	13.43 e	12.2 e	10.02 e	14.17 i	12.27 i	10.02 a
800S162-68	50	14.57	13.18	10.76 e	15.21	13.18 i	10.76 i	13.24	12.03	10.51 e	14.86	13.18 i	10.76 i
800S200-68	50	15.27	13.88	11.85 e	16.75 i	14.51 i	11.85 i	13.88	12.61	11.01 e	15.57 i	14.15 i	11.85 i
800S250-68	50	15.93	14.38	11.74 e	16.61 i	14.38 i	11.74 i	14.48	13.15	11.49 e	16.24 i	14.38 i	11.74 i
800S162-97	50	16.20	14.72	12.86	18.18	16.52	13.59	14.72	13.37	11.68	16.52	15.01	13.11
800S200-97	50	16.99	15.44	13.49	19.07	17.32	15.13 i	15.44	14.03	12.25	17.32	15.74	13.75 i
800S250-97	50	17.76	16.13	14.09	19.93	18.11	15.48 i	16.13	14.66	12.80	18.10	16.45	17.37
800S162-118	50	17.14	15.58	13.61	19.24	17.48	15.27	15.57	14.15	12.36	17.48	15.88	13.87
800S200-118	50	18.00	16.35	14.28	20.20	18.35	16.03	16.35	14.86	12.98	18.35	16.67	14.56
800S250-118	50	18.83	17.11	14.94	21.13	19.20	16.77	17.10	15.54	13.58	19.19	17.44	15.23
1000S162-43	33	10.74 e	9.3 e	6.3 e	10.74 a	9.3 a	7.6 a	10.74 e	9.3 e	6.3 e	10.74 a	9.3 a	7.6 a
1000S200-43	33	11.58 e	9.65 e	6.43 e	11.58 a	10.03 a	8.19 a	11.58 e	9.65 e	6.43 e	11.58 a	10.03 a	8.19 a
1000S250-43	33	11.91 e	9.65 e	6.43 e	11.91 a	10.32 a	8.42 a	11.91 e	9.65 e	6.43 e	11.91 a	10.32 a	8.42 a
1000S162-54	50	14.39 e	12.47 e	10.18 e	14.39 i	12.47 a	10.18 a	14.39 e	12.47 e	10.18 e	14.39 i	12.47 a	10.18 a
1000S200-54	50	15.47 e	13.4 e	10.94 e	15.47 i	13.4 a	10.94 a	15.23 e	13.4 e	10.94 e	15.47 i	13.4 a	10.94 a
1000S250-54	50	15.88 e	13.76 e	11.23 e	15.88 i	13.76 a	11.23 a	15.88 e	13.76 e	11.23 e	15.88 i	13.76 a	11.23 a
1000S162-68	50	17.01	14.73 e	12.02 e	17.01 i	14.73 i	12.02 i	15.78	14.34 e	12.02 e	17.01 i	14.73 i	12.02 i
1000S200-68	50	18.15	15.76 e	12.86 e	18.19 i	15.76 i	12.86 i	16.49	14.99 e	12.86 e	18.19 i	15.76 i	12.86 i
1000S250-68	50	18.70	16.19 e	13.22 e	18.70 i	16.19 a	13.22 a	17.29	15.71 e	13.22 e	18.70 i	16.19 i	13.22 a
1000S162-97	50	19.51	17.73	15.41	21.79	18.88	15.41 i	17.73	16.11	14.07	19.89	18.07	15.41 i
1000S200-97	50	20.38	18.52	16.18	22.87	20.08	16.39 i	18.52	16.82	14.70	20.78	18.88	16.39 i
1000S250-97	50	21.22	19.28	16.84	23.81	21.50	17.56 i	19.28	17.52	15.30	21.63	19.66	17.17 i
1000S162-118	50	20.67	18.78	16.40	23.19	21.07	17.57	18.78	17.06	14.90	21.07	19.15	16.73
1000S200-118	50	21.61	19.64	17.15	24.25	22.03	18.66	19.63	17.84	15.58	22.03	20.02	17.49
1000S250-118	50	22.52	20.46	17.87	25.27	22.96	20.06	20.46	18.59	16.24	22.96	20.86	18.22
1200S162-54	50	15.49 e	13.42 e	10.59 e	15.49 a	13.42 a	10.59 a	15.49 e	13.42 e	10.59 e	15.49 a	13.42 a	10.59 a
1200S200-54	50	16.75 e	14.52 e	10.59 e	16.76 a	14.52 a	11.85 i	16.75 e	14.52 e	10.59 e	16.76 a	14.52 a	11.85 i
1200S250-54	50	17.31 e	14.99 e	10.59 e	17.31 a	14.99 a	12.24 a	17.31 e	14.99 e	10.59 e	17.31 a	14.99 a	12.24 a
1200S162-68	50	18.42	15.96 e	13.03 e	18.42 i	15.96 i	13.03 a	18.21	15.96 e	13.03 e	18.42 i	15.96 i	13.03 a
1200S200-68	50	19.82 e	17.17 e	14.01 e	19.82 i	17.17 i	14.01 a	18.99 e	17.17 e	14.01 e	19.82 i	17.17 i	14.01 a
1200S250-68	50	20.46 e	17.72 e	14.47 e	20.46 i	17.72 i	14.47 a	19.78 e	17.72 e	14.47 e	20.46 i	17.72 i	14.47 a
1200S162-97	50	22.70	20.63	16.90	23.90	20.70	16.90 i	20.63	18.74	16.37	23.15	20.70	16.90 i
1200S200-97	50	23.64	21.48	18.04	25.51	22.10 i	18.04 i	21.48	19.52	17.05	24.10	21.90 i	18.04 i
1200S250-97	50	24.56	22.31	18.64 e	26.36	22.83 i	18.64 i	22.31	20.27	17.71 e	25.04	22.75 i	22.83 i
1200S162-118	50	24.14	21.94	19.16	27.09	23.81	19.44	21.93	19.93	17.41	24.61	22.37	19.44
1200S200-118	50	25.15	22.85	19.96	28.22	25.34	20.69	22.85	20.76	18.14	25.64	23.30	20.35
1200S250-118	50	26.12	23.74	20.73	29.31	26.22	20.40 i	23.74	21.57	18.84	26.63	24.20	21.14 i
1200S300-118	50	26.95	24.49	21.39	30.24	27.48	22.75 i	24.49	22.25	19.44	27.48	24.97	21.81 i
1200S350-118	50	28.34	25.75	22.49	31.80	28.90	24.76 i	25.75	23.40	20.44	28.89	26.25	22.93 i
1400S200-54	50	17.79 e	13.58 e	9.05 e	17.79 a	15.41 a	12.07 a	17.79 e	13.58 e	9.05 e	17.79 a	15.41 a	12.07 a
1400S250-54	50	18.11 e	13.58 e	9.05 e	18.48 a	16.01 a	12.07 a	18.11 e	13.58 e	9.05 e	18.48 a	16.01 a	12.07 a
1400S300-54	50	18.11 e	13.58 e	9.05 e	18.93 a	16.39 a	12.07 a	18.11 e	13.58 e	9.05 e	18.93 a	16.39 a	12.07 a
1400S350-54	50	18.11 e	13.58 e	9.05 e	21.28 a	18.11 a	12.07 a	18.11 e	13.58 e	9.05 e	21.28 a	18.11 a	12.07 a
1400S200-68	50	21.14 e	18.31 e	14.95 e	21.14 i	18.31 i	14.95 a	21.14 e	18.31 e	14.95 e	21.14 i	18.31 i	14.95 a
1400S250-68	50	21.94 e	19 e	15.51 e	21.94 i	19 a	15.51 a	21.94 e	19 e	15.51 e	21.94 i	19 a	15.51 a
1400S300-68	50	22.45 e	19.45 e	15.88 e	22.45 i	19.45 a	15.88 a	22.45 e	19.45 e	15.88 e	22.45 i	19.45 a	15.88 a
1400S350-68	50	25.07 e	21.71 e	17.73 e	25.07 a	21.71 a	17.73 a	22.48 e	21.71 e	17.73 e	25.07 a	21.71 a	17.73 a
1400S200-97	50	26.73	23.79	19.42 e	27.46	23.79 i	19.42 i	24.28	22.07	19.27 e	27.25	23.79 i	19.42 i
1400S250-97	50	27.72	24.66	21.13 e	28.47	24.66 i	20.13 i	25.18	22.88	19.99 e	28.26	24.66 i	20.13 i
1400S300-97	50	28.56	25.24	20.60 e	29.14 i	25.24 i	20.60 i	25.95	23.58	20.60 e	29.12 i	25.24 i	20.60 i
1400S350-97	50	30.13	27.38 e	22.72 e	32.13 i	27.83 i	22.72 i	27.38	24.88 e	21.73 e	30.72 i	27.83 i	22.72 i
1400S200-118	50	28.61	26.00	22.40	31.68	27.44	22.40 i	26.00	23.62	20.63	29.17	26.51	22.40 i
1400S250-118	50	29.64	26.94	23.24	32.86	28.46	23.24 i	26.93	24.47	21.38	30.22	27.46	23.24 i
1400S300-118	50	30.62	27.82	23.80	33.66	29.15	23.80 i	27.82	25.28	23.80	31.22	28.36	23.80 i
1400S350-118	50	32.05	29.12	25.44 e	35.96	32.68 i	26.94 i	29.12	26.46	23.11 e	32.68	29.69 i	25.93 i
1600S200-68	50	22.23 e	19.25 e	15.72 e	22.23 a	19.25 a	15.72 a	22.23 e	19.25 e	15.72 e	22.23 a	19.25 a	15.72 a
1600S250-68	50	23.17 e	20.07 e	15.86 e	23.17 a	20.07 a	16.38 a	23.17 e	20.07 e	15.86 e	23.17 a	20.07 a	16.38 a
1600S300-68	50	23.82 e	20.63 e	15.86 e	23.82 a	20.63 a	16.84 a	23.82 e	20.63 e	15.86 e	23.82 a	20.63 a	16.84 a
1600S350-68	50	26.7 e	23.13 e	15.86 e	26.7 a	23.13 a	18.88 a	26.62 e	23.13 e	15.86 e	26.70 a	23.13 a	18.88 a
1600S200-97	50	29.10	25.20	20.58 e	29.10 i	25.20 i	20.58 i	27.00	24.53	20.58 e	29.10 i	25.20 i	20.58 i
1600S250-97	50	30.27	26.22 e	21.41 e	30.27 i	26.22 i	21.41 i	27.96	25.41 e	21.41 e	30.27 i	26.22 i	21.41 i
1600S300-97	50	31.09	26.92 e	21.98 e	31.09 i	26.92 i	21.98 i	28.79 i	26.16 e	21.98 e	31.09 i	26.92 i	21.98 i
1600S350-97	50	33.21	29.77 e	24.31 e	34.38 i	29.77 i	24.31 a	30.18	27.42 e	23.95 e	33.86 i	29.77 i	24.31 a
1600S200-118	50	31.89	28.98	23.86	33.74	29.22	23.86 i	28.97	26.33	23.00	32.51	29.22	23.86 i
1600S250-118	50	32.98	29.96	24.82	35.10	30.40	24.82 i	29.96	27.22	23.78	33.62	30.40	24.82 i
1600S300-118	50	34.02	30.91	25.49 e	36.05	31.22 i	25.49 i	30.91	28.08	24.53 e	34.68	31.22 i	25.49 i
1600S350-118	50	35.54	32.29	27.95 e	39.53	34.24 i	27.95 i	32.29	29.34	25.63 e	36.23	32.92 i	27.95 i

40 PSF DEAD LOAD AND 125 PSF LIVE LOAD													
MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S162-33	33	6'2"	5'4"	3'10"	5'3"	4'3"	3'1"	6'2"	5'4"	3'10"	5'3"	4'3"	3'1"
600S200-33	33	6'7"	5'9"	3'10"	5'6"	4'4"	3'1"	6'7"	5'9"	3'10"	5'6"	4'4"	3'1"
600S162-43	33	7'8"	6'7"	5'5"	7'8"	6'7"	5'2"	7'8"	6'7"	5'5"	7'8"	6'7"	5'2"
600S200-43	33	7'11"	6'10"	5'7"	7'11"	6'10"	5'3"	7'11"	6'10"	5'7"	7'11"	6'10"	5'3"
600S250-43	33	8'1"	7'0"	5'9"	8'1"	7'0"	5'4"	8'1"	7'0"	5'9"	8'1"	7'0"	5'4"
600S162-54	50	10'0"	8'10"	7'3"	10'3"	8'10"	7'3"	9'1"	8'3"	7'3"	10'2"	8'10"	7'3"
600S200-54	50	10'6"	9'1"	7'5"	10'6"	9'1"	7'5"	9'7"	8'8"	7'5"	10'6"	9'1"	7'5"
600S250-54	50	10'9"	9'4"	7'7"	10'9"	9'4"	7'7"	9'11"	9'1"	7'7"	10'9"	9'4"	7'7"
600S162-68	50	10'9"	9'9"	8'6"	12'0"	10'5"	8'6"	9'9"	8'10"	7'9"	10'11"	9'11"	8'6"
600S200-68	50	11'3"	10'3"	8'11"	12'8"	11'0"	8'11"	10'3"	9'4"	8'2"	11'6"	10'5"	8'11"
600S250-68	50	11'10"	10'9"	8'11"	12'7"	10'11"	8'11"	10'9"	9'9"	8'6"	12'11"	10'11"	8'11"
600S162-97	50	11'11"	10'10"	9'5"	13'4"	12'1"	10'7"	10'10"	9'10"	8'7"	12'1"	11'0"	9'7"
600S200-97	50	12'6"	11'4"	9'11"	14'1"	12'9"	11'2"	11'4"	10'4"	9'0"	12'9"	11'7"	10'2"
600S250-97	50	13'2"	11'11"	10'5"	14'9"	13'5"	11'7"	11'11"	10'10"	9'6"	13'5"	12'2"	10'8"
600S162-118	50	12'7"	11'5"	10'0"	14'1"	12'10"	11'2"	11'5"	10'4"	9'1"	12'10"	11'8"	10'2"
600S200-118	50	13'3"	12'0"	10'6"	14'10"	13'6"	11'10"	12'0"	10'11"	9'7"	13'6"	12'3"	10'9"
600S250-118	50	13'11"	12'8"	11'1"	15'8"	14'2"	12'5"	12'8"	11'6"	10'0"	14'2"	12'11"	11'3"
800S162-33	33	5'9"	4'4"	2'10"	4'7"	3'5"	2'4"	5'9"	4'4"	2'10"	4'7"	3'5"	2'4"
800S200-33	33	5'9"	4'4"	2'10"	4'7"	3'5"	2'4"	5'9"	4'4"	2'10"	4'7"	3'5"	2'4"
800S162-43	33	8'7"	7'5"	6'1"	8'0"	6'5"	4'9"	8'7"	7'5"	6'1"	8'0"	6'5"	4'9"
800S200-43	33	9'3"	8'0"	6'4"	8'3"	6'8"	4'11"	9'3"	8'0"	6'4"	8'3"	6'8"	4'11"
800S250-43	33	9'5"	8'2"	6'4"	8'5"	6'9"	4'11"	9'5"	8'2"	6'4"	8'5"	6'9"	4'11"
800S162-54	50	11'6"	10'0"	8'2"	11'6"	10'0"	7'8"	11'4"	10'0"	8'2"	11'6"	10'0"	7'8"
800S200-54	50	12'3"	10'8"	8'8"	12'3"	10'8"	8'0"	12'0"	10'8"	8'8"	12'3"	10'8"	8'0"
800S250-54	50	12'7"	10'11"	8'11"	12'7"	10'9"	8'1"	12'6"	10'11"	8'11"	12'7"	10'9"	8'1"
800S162-68	50	13'6"	11'8"	9'7"	13'6"	11'8"	9'7"	12'3"	11'2"	9'7"	13'6"	11'8"	9'7"
800S200-68	50	14'2"	12'11"	10'6"	14'10"	12'11"	10'6"	12'11"	11'8"	10'3"	14'5"	12'11"	10'6"
800S250-68	50	14'9"	12'9"	10'5"	14'9"	12'9"	10'5"	13'5"	12'2"	10'5"	14'9"	12'9"	10'5"
800S162-97	50	15'0"	13'8"	11'11"	16'11"	14'9"	12'1"	13'8"	12'5"	10'10"	15'4"	13'11"	12'1"
800S200-97	50	15'9"	14'4"	12'6"	17'8"	16'1"	13'6"	14'4"	13'0"	11'4"	16'1"	14'7"	12'9"
800S250-97	50	16'6"	15'0"	13'1"	18'6"	16'10"	13'9"	15'0"	13'7"	11'11"	16'10"	15'3"	13'4"
800S162-118	50	15'11"	14'5"	12'7"	17'10"	16'3"	14'2"	14'5"	13'2"	11'6"	16'3"	14'9"	12'11"
800S200-118	50	16'8"	15'2"	13'3"	18'9"	17'0"	14'11"	15'2"	13'9"	12'0"	17'0"	15'6"	13'6"
800S250-118	50	17'6"	15'10"	13'10"	19'7"	17'10"	15'7"	15'10"	14'5"	12'7"	17'10"	16'2"	14'2"
1000S162-43	33	9'6"	7'7"	5'1"	7'6"	5'11"	4'1"	9'6"	7'7"	5'1"	7'6"	5'11"	4'1"
1000S200-43	33	10'2"	7'7"	5'1"	7'9"	6'1"	4'1"	10'2"	7'7"	5'1"	7'9"	6'1"	4'1"
1000S250-43	33	10'2"	7'7"	5'1"	7'10"	6'1"	4'1"	10'2"	7'7"	5'1"	7'10"	6'1"	4'1"
1000S162-54	50	12'9"	11'1"	9'0"	12'2"	9'11"	7'4"	12'9"	11'1"	9'0"	12'2"	9'11"	7'4"
1000S200-54	50	13'9"	11'11"	9'8"	12'8"	10'3"	7'6"	13'9"	11'11"	9'8"	12'8"	10'3"	7'6"
1000S250-54	50	14'1"	12'3"	10'0"	12'10"	10'5"	7'7"	14'1"	12'3"	10'0"	12'10"	10'5"	7'7"
1000S162-68	50	15'1"	13'1"	10'8"	15'1"	13'1"	10'8"	14'8"	13'1"	10'8"	15'1"	13'1"	10'8"
1000S200-68	50	16'2"	14'0"	11'5"	16'2"	14'0"	11'5"	15'4"	13'11"	11'5"	16'2"	14'0"	11'5"
1000S250-68	50	16'7"	14'4"	11'9"	16'7"	14'4"	11'7"	16'0"	14'4"	11'9"	16'7"	14'4"	11'7"
1000S162-97	50	18'1"	16'5"	13'8"	19'4"	16'9"	13'8"	16'5"	14'11"	13'1"	18'6"	16'9"	13'8"
1000S200-97	50	18'11"	17'2"	14'7"	20'7"	17'10"	14'7"	17'2"	15'7"	13'8"	19'3"	17'6"	14'7"
1000S250-97	50	19'8"	17'11"	15'7"	22'0"	19'1"	15'7"	17'11"	16'3"	14'2"	20'1"	18'3"	15'7"
1000S162-118	50	19'2"	17'5"	15'3"	21'6"	19'1"	15'7"	17'5"	15'10"	13'10"	19'7"	17'9"	15'6"
1000S200-118	50	20'1"	18'3"	15'11"	22'6"	20'3"	16'7"	18'3"	16'7"	14'6"	20'5"	18'7"	16'3"
1000S250-118	50	20'11"	19'0"	16'7"	23'5"	21'4"	18'0"	19'0"	17'3"	15'1"	21'4"	19'4"	16'11"
1200S162-54	50	13'9"	11'11"	8'4"	11'7"	9'4"	6'8"	13'9"	11'11"	8'4"	11'7"	9'4"	6'8"
1200S200-54	50	14'11"	12'6"	8'4"	12'1"	9'8"	6'8"	14'11"	12'6"	8'4"	12'1"	9'8"	6'8"
1200S250-54	50	15'4"	12'6"	8'4"	12'3"	9'9"	6'8"	15'4"	12'6"	8'4"	12'3"	9'9"	6'8"
1200S162-68	50	16'4"	14'2"	11'7"	16'4"	14'1"	10'7"	16'4"	14'2"	11'7"	16'4"	14'1"	10'7"
1200S200-68	50	17'7"	15'3"	12'5"	17'7"	14'9"	11'1"	17'7"	15'3"	12'5"	17'7"	14'9"	11'1"
1200S250-68	50	18'2"	15'9"	12'10"	18'2"	15'1"	11'3"	18'2"	15'9"	12'10"	18'2"	15'1"	11'3"
1200S162-97	50	21'1"	18'4"	15'0"	21'3"	18'4"	15'0"	19'2"	17'5"	15'0"	21'3"	18'4"	15'0"
1200S200-97	50	21'11"	19'7"	16'0"	22'8"	19'7"	16'0"	19'11"	18'1"	15'10"	22'4"	19'7"	16'0"
1200S250-97	50	22'9"	20'3"	16'7"	23'5"	20'3"	16'7"	20'8"	18'10"	16'5"	23'3"	20'3"	16'7"
1200S162-118	50	22'5"	20'4"	17'3"	24'5"	21'2"	17'3"	20'4"	18'6"	16'2"	22'10"	20'9"	17'3"
1200S200-118	50	23'4"	21'2"	18'4"	26'0"	22'6"	18'4"	21'2"	19'3"	16'10"	23'10"	21'8"	18'4"
1200S250-118	50	24'3"	22'0"	19'0"	26'10"	23'3"	19'0"	22'0"	20'0"	17'6"	24'9"	22'6"	19'0"
1200S300-118	50	25'0"	22'9"	19'10"	28'1"	24'9"	20'2"	22'9"	20'8"	18'0"	25'6"	23'2"	20'2"
1200S350-118	50	26'4"	23'11"	20'10"	29'6"	26'10"	22'0"	23'11"	21'8"	19'0"	26'10"	24'4"	21'3"
1400S200-54	50	14'3"	10'8"	7'2"	11'3"	8'7"	5'8"	14'3"	10'8"	7'2"	11'3"	8'7"	5'8"
1400S250-54	50	14'3"	10'8"	7'2"	11'5"	8'7"	5'8"	14'3"	10'8"	7'2"	11'5"	8'7"	5'8"
1400S300-54	50	14'3"	10'8"	7'2"	11'5"	8'7"	5'8"	14'3"	10'8"	7'2"	11'5"	8'7"	5'8"
1400S350-54	50	14'3"	10'8"	7'2"	11'5"	8'7"	5'8"	14'3"	10'8"	7'2"	11'5"	8'7"	5'8"
1400S200-68	50	18'9"	16'3"	13'3"	17'8"	14'4"	10'7"	18'9"	16'3"	13'3"	17'8"	14'4"	10'7"
1400S250-68	50	19'6"	16'10"	13'9"	18'0"	14'7"	10'9"	19'6"	16'10"	13'9"	18'0"	14'7"	10'9"
1400S300-68	50	19'11"	17'3"	14'1"	18'3"	14'9"	10'10"	19'11"	17'3"	14'1"	18'3"	14'9"	10'10"
1400S350-68	50	22'3"	19'3"	14'4"	19'4"	15'7"	11'4"	22'3"	19'3"	14'4"	19'4"	15'7"	11'4"
1400S200-97	50	24'5"	21'1"	17'3"	24'5"	21'1"	17'3"	22'6"	20'6"	17'3"	24'5"	21'1"	17'3"
1400S250-97	50	25'3"	21'11"	17'10"	25'3"	21'11"	17'10"	23'4"	21'3"	17'10"	25'3"	21'11"	17'10"

40 PSF DEAD LOAD AND 125 PSF LIVE LOAD

MEMBER	FY (KSI)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single Span			Two Equal Spans			Single Span			Two Equal Spans		
		Spacing O.C.			Spacing O.C.			Spacing O.C.			Spacing O.C.		
		12	16	24	12	16	24	12	16	24	12	16	24
1400S300-97	50	25'10"	22'5" e	18'3" e	25'10" i	22'5" i	18'3" a	24'1"	21'11" e	18'3" e	25'10" i	22'5" i	18'3" a
1400S350-97	50	28'0" e	24'8" e	20'2" e	28'6" i	24'8" i	20'2" a	25'5"	23'1" e	20'2" e	28'6" i	24'8" i	20'2" a
1400S200-118	50	26'7"	24'1"	19'11"	28'1" i	24'4" i	19'11" i	24'1"	21'11"	19'2"	27'1" i	24'4" i	19'11" i
1400S250-118	50	27'6"	25'0"	20'7" e	29'2" i	25'3" i	20'7" i	25'0"	22'8"	19'10"	28'1" i	25'3" i	20'7" i
1400S300-118	50	28'5"	25'10"	21'2" e	29'11" i	25'10" i	21'2" i	25'10"	23'5"	20'6" e	29'0" i	25'10" i	21'2" i
1400S350-118	50	29'9"	27'0"	23'7" e	33'5" i	29'3" i	23'11" a	27'0"	24'7"	21'5" e	30'4" i	27'7" i	23'11" a
1600S200-68	50	19'9" e	17'1" e	12'6" e	17'0" a	13'8" a	9'11" a	19'9" e	17'1" e	12'6" e	17'0" a	13'8" a	9'11" a
1600S250-68	50	20'7" e	17'10" e	12'6" e	17'4" a	13'11" a	10'0" a	20'7" e	17'10" e	12'6" e	17'4" a	13'11" a	10'0" a
1600S300-68	50	21'2" e	18'4" e	12'6" e	17'7" a	14'1" a	10'0" a	21'2" e	18'4" e	12'6" e	17'7" a	14'1" a	10'0" a
1600S350-68	50	23'8" e	18'9" e	12'6" e	18'7" a	14'9" a	10'0" a	23'8" e	18'9" e	12'6" e	18'7" a	14'9" a	10'0" a
1600S200-97	50	25'10"	22'4" e	18'3" e	25'10" i	22'4" i	18'3" a	25'1"	22'4" e	18'3" e	25'10" i	22'4" i	18'3" a
1600S250-97	50	26'10"	23'3" e	19'0" e	26'10" i	23'3" i	19'0" a	25'11"	23'3" e	19'0" e	26'10" i	23'3" i	19'0" a
1600S300-97	50	27'7" e	23'11" e	19'6" e	27'7" i	23'11" i	19'6" a	26'9"	23'11" e	19'6" e	27'7" i	23'11" i	19'6" a
1600S350-97	50	30'6" e	26'5" e	21'7" e	30'6" i	26'5" a	21'2" a	28'0" e	25'5" e	21'7" e	30'6" i	26'5" a	21'2" a
1600S200-118	50	29'7"	25'11"	21'2" e	29'11" i	25'11" i	21'2" i	26'11"	24'5"	21'2" e	29'11" i	25'11" i	21'2" i
1600S250-118	50	30'7"	27'0"	22'0" e	31'2" i	27'0" i	22'0" i	27'10"	25'3"	22'0" e	31'2" i	27'0" i	22'0" i
1600S300-118	50	31'7"	27'9"	22'8" e	32'0" i	27'9" i	22'8" i	28'8"	26'1"	22'8" e	32'0" i	27'9" i	22'8" i
1600S350-118	50	33'0"	30'0" e	24'10" e	35'1" i	30'5" i	24'10" a	30'0"	27'3"	23'9" e	33'8" i	30'5" i	24'10" a



BEST-IN-CLASS PRODUCTS
AND THE SERVICE TO MATCH.

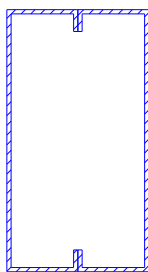


A close-up photograph of industrial machinery. A vertical assembly, consisting of a thick black hose, a silver metal coupling, and a cylindrical component with multiple bolts, is mounted on a blue-painted metal table. The background is blurred, showing more industrial equipment and yellow safety markings.

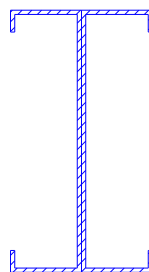
HEADER LOADS

NOTES:

1. Calculated properties are based on AISI S100-12.
2. Allowable deflection limit is $L/360$.
3. Allowable capacities have not been modified for wind or earthquake loading.
4. Headers are made from two "boxed" or back-to-back members.
5. Allowable moment, shear, and web crippling capacities are based on twice the capacity of a single member. The moment of inertia is based on twice the value of the single member.
6. Minimum bearing length for web crippling = 1-inch
7. Capacities are calculated for un-punched members only.
8. Members are assumed adequately braced for bending.
9. Allowable loads are for simply supported headers with uniform bending loads only.
10. "e" Web stiffeners are required at each support.



BOXED HEADER



BACK TO BACK HEADER

HEADER ALLOWABLE UNIFORM LOADS (lb/ft)								
Member	F _y	SPAN						
	(ksi)	3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
550S162-33	33	931 e	699 e	539 e	375 e	211 e	127 e	74 e
550S162-43	33	2067 e	1232 e	789 e	548 e	308 e	165 e	95 e
550S162-54	33	2779 e	1563 e	1001 e	695 e	391 e	203 e	118
550S162-54	50	3979 e	2238 e	1433 e	941 e	397 e	203	118
550S162-68	33	3514 e	1977 e	1265 e	879 e	489 e	250 e	145
550S162-68	50	5176 e	2912 e	1863 e	1158 e	489 e	250	145
600S137-33	33	851 e	638 e	479 e	333 e	187 e	120 e	78 e
600S162-33	33	851 e	638 e	510 e	423 e	238 e	152 e	91 e
600S200-33	33	851 e	638 e	510 e	425 e	256 e	164 e	104 e
600S137-43	33	1887 e	1061 e	679 e	472 e	265 e	170 e	103 e
600S162-43	33	1888 e	1390 e	890 e	618 e	348 e	202 e	117 e
600S200-43	33	1888 e	1416 e	920 e	639 e	359 e	230 e	136 e
600S250-43	33	1888 e	1416 e	967 e	672 e	378 e	242 e	156 e
600S137-54	33	2436 e	1370 e	877 e	609 e	343 e	219 e	127
600S137-54	50	3446 e	1938 e	1241 e	862 e	430 e	220	127
600S162-54	33	3136 e	1764 e	1129 e	784 e	441 e	250 e	145 e

HEADER ALLOWABLE UNIFORM LOADS (lb/ft)								
Member	Fy	SPAN						
	(ksi)	3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
600S162-54	50	3012 e	1694 e	1084 e	753 e	424 e	250 e	145
600S200-54	33	3566 e	2006 e	1284 e	891 e	501 e	290 e	168 e
600S200-54	50	3764 e	2533 e	1621 e	1126 e	567 e	290 e	168
600S250-54	33	3392 e	1908 e	1221 e	848 e	477 e	305 e	193 e
600S250-54	50	3764 e	2667 e	1707 e	1185 e	643 e	329 e	190
600S137-68	33	3563 e	2004 e	1283 e	891 e	501 e	270 e	157
600S137-68	50	4570 e	2570 e	1645 e	1142 e	528 e	270	157
600S162-68	33	3969 e	2232 e	1429 e	992 e	558 e	308 e	178
600S162-68	50	5847 e	3289 e	2105 e	1426 e	602 e	308	178
600S200-68	33	4507 e	2535 e	1622 e	1127 e	634 e	358 e	207 e
600S200-68	50	6476 e	3642 e	2331 e	1619 e	700 e	358	207
600S250-68	33	4862 e	2735 e	1750 e	1216 e	684 e	413 e	239 e
600S250-68	50	6147 e	3458 e	2213 e	1537 e	806 e	413 e	239
600S137-97	33	5108 e	2873 e	1839 e	1277 e	715 e	366	212
600S137-97	50	7526 e	4233 e	2709 e	1695 e	715	366	212
600S162-97	33	5684 e	3198 e	2046 e	1421 e	799 e	419	243
600S162-97	50	8404 e	4728 e	3026 e	1942 e	819	419	243
600S200-97	33	6443 e	3624 e	2319 e	1611 e	906 e	491 e	284
600S200-97	50	9560 e	5378 e	3442 e	2271 e	958 e	491	284
600S250-97	33	7231 e	4068 e	2603 e	1808 e	1017 e	568 e	329
600S250-97	50	10279 e	5782 e	3700 e	2570 e	1109 e	568	329
600S162-118	33	6936 e	3902 e	2497 e	1734 e	965 e	494	286
600S162-118	50	10213 e	5745 e	3677 e	2288 e	965	494	286
600S200-118	33	7859 e	4421 e	2829 e	1965 e	1105 e	581	336
600S200-118	50	11621 e	6537 e	4183 e	2688 e	1134	581	336
600S250-118	33	8827 e	4965 e	3178 e	2207 e	1241 e	674 e	390
600S250-118	50	12729 e	7160 e	4582 e	3122 e	1317 e	674	390
800S137-33	33	632 e	474 e	379 e	316 e	237 e	164 e	114 e
800S162-33	33	632 e	474 e	379 e	316 e	237 e	187 e	130 e
800S200-33	33	632 e	474 e	379 e	316 e	237 e	190 e	149 e
800S137-43	33	1402 e	1051 e	841 e	656 e	369 e	236 e	164 e
800S162-43	33	1402 e	1051 e	841 e	701 e	420 e	269 e	186 e
800S200-43	33	1402 e	1051 e	841 e	701 e	526 e	341 e	237 e
800S250-43	33	1402 e	1051 e	841 e	701 e	526 e	346 e	240 e
800S137-54	33	2788 e	1941 e	1242 e	863 e	485 e	311 e	216 e
800S137-54	50	2788 e	2091 e	1673 e	1201 e	676 e	432 e	252 e
800S162-54	33	2788 e	2091 e	1406 e	976 e	549 e	351 e	244 e
800S162-54	50	2788 e	2091 e	1673 e	1363 e	767 e	489 e	283 e
800S200-54	33	2788 e	2091 e	1673 e	1324 e	745 e	477 e	331 e
800S200-54	50	2788 e	2091 e	1673 e	1394 e	935 e	574 e	332 e
800S250-54	33	2788 e	2091 e	1673 e	1253 e	705 e	451 e	313 e
800S250-54	50	2788 e	2091 e	1673 e	1394 e	951 e	609 e	373 e
800S137-68	33	4511 e	2538 e	1624 e	1128 e	634 e	406 e	282 e
800S137-68	50	5628 e	3664 e	2345 e	1628 e	916 e	549 e	318 e
800S162-68	33	5085 e	2860 e	1831 e	1271 e	715 e	458 e	318 e
800S162-68	50	5628 e	4150 e	2656 e	1845 e	1038 e	618 e	358 e
800S200-68	33	5628 e	3774 e	2415 e	1677 e	944 e	604 e	412 e
800S200-68	50	5628 e	4221 e	3377 e	2415 e	1359 e	712 e	412 e
800S250-68	33	5628 e	4028 e	2578 e	1790 e	1007 e	644 e	448 e
800S250-68	50	5628 e	4221 e	3288 e	2283 e	1284 e	808 e	467 e

HEADER ALLOWABLE UNIFORM LOADS (lb/ft)								
Member	Fy	SPAN						
	(ksi)	3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
800S137-97	33	7865 e	4424 e	2831 e	1966 e	1106 e	708 e	435 e
800S137-97	50	9535 e	5363 e	3432 e	2384 e	1341 e	752 e	435
800S162-97	33	8633 e	4856 e	3108 e	2158 e	1214 e	777 e	491 e
800S162-97	50	10772 e	6059 e	3878 e	2693 e	1515 e	849 e	491
800S200-97	33	9647 e	5427 e	3473 e	2412 e	1357 e	868 e	567 e
800S200-97	50	14316 e	8052 e	5154 e	3579 e	1913 e	979 e	567
800S250-97	33	10677 e	6006 e	3844 e	2669 e	1501 e	961 e	647 e
800S250-97	50	14514 e	8558 e	5477 e	3804 e	2140 e	1118 e	647 e
800S162-118	33	10588 e	5956 e	3812 e	2647 e	1489 e	953 e	582 e
800S162-118	50	15590 e	8769 e	5612 e	3897 e	1964 e	1006 e	582
800S200-118	33	11819 e	6648 e	4255 e	2955 e	1662 e	1064 e	674 e
800S200-118	50	17474 e	9829 e	6291 e	4369 e	2273 e	1164 e	674
800S250-118	33	13083 e	7359 e	4710 e	3271 e	1840 e	1177 e	771 e
800S250-118	50	18890 e	10626 e	6801 e	4723 e	2602 e	1332 e	771
1000S137-43	33	1115 e	836 e	669 e	557 e	418 e	302 e	210 e
1000S162-43	33	1115 e	836 e	669 e	557 e	418 e	334 e	238 e
1000S200-43	33	1115 e	836 e	669 e	557 e	418 e	334 e	269 e
1000S250-43	33	1115 e	836 e	669 e	557 e	418 e	334 e	279 e
1000S137-54	33	2214 e	1661 e	1329 e	1107 e	628 e	402 e	279 e
1000S137-54	50	2214 e	1661 e	1329 e	1107 e	830 e	554 e	385 e
1000S162-54	33	2214 e	1661 e	1329 e	1107 e	709 e	454 e	315 e
1000S162-54	50	2214 e	1661 e	1329 e	1107 e	830 e	628 e	436 e
1000S200-54	33	2214 e	1661 e	1329 e	1107 e	817 e	523 e	363 e
1000S200-54	50	2214 e	1661 e	1329 e	1107 e	830 e	664 e	473 e
1000S250-54	33	2214 e	1661 e	1329 e	1107 e	830 e	600 e	417 e
1000S250-54	50	2214 e	1661 e	1329 e	1107 e	830 e	664 e	521 e
1000S137-68	33	4460 e	3341 e	2138 e	1485 e	835 e	535 e	371 e
1000S137-68	50	4460 e	3345 e	2676 e	2116 e	1190 e	762 e	529 e
1000S162-68	33	4460 e	3345 e	2399 e	1666 e	937 e	600 e	416 e
1000S162-68	50	4460 e	3345 e	2676 e	2230 e	1344 e	860 e	597 e
1000S200-68	33	4460 e	3345 e	2676 e	1908 e	1073 e	687 e	477 e
1000S200-68	50	4460 e	3345 e	2676 e	2230 e	1510 e	966 e	671 e
1000S250-68	33	4460 e	3345 e	2676 e	2230 e	1374 e	879 e	610 e
1000S250-68	50	4460 e	3345 e	2676 e	2230 e	1673 e	1105 e	768 e
1000S137-97	33	8896 e	5004 e	3202 e	2224 e	1251 e	801 e	556 e
1000S137-97	50	12938 e	7278 e	4658 e	3234 e	1819 e	1164 e	769 e
1000S162-97	33	9935 e	5588 e	3576 e	2484 e	1397 e	894 e	621 e
1000S162-97	50	13151 e	8158 e	5221 e	3626 e	2039 e	1305 e	858 e
1000S200-97	33	11322 e	6368 e	4076 e	2830 e	1592 e	1019 e	708 e
1000S200-97	50	13151 e	9334 e	5974 e	4148 e	2333 e	1493 e	978 e
1000S250-97	33	11791 e	8201 e	5249 e	3645 e	2050 e	1312 e	911 e
1000S250-97	50	13151 e	9864 e	7500 e	5209 e	2930 e	1875 e	1104 e
1000S162-118	33	14850 e	8353 e	5346 e	3713 e	2088 e	1337 e	928 e
1000S162-118	50	17894 e	10065 e	6442 e	4473 e	2516 e	1610 e	1020 e
1000S200-118	33	16370 e	9208 e	5893 e	4093 e	2302 e	1473 e	1023 e
1000S200-118	50	20451 e	11504 e	7362 e	5113 e	2876 e	1841 e	1166 e
1000S250-118	33	17585 e	10074 e	6447 e	4477 e	2519 e	1612 e	1119 e
1000S250-118	50	21646 e	14570 e	9325 e	6476 e	3642 e	2280 e	1319 e
1200S137-54	33	1836 e	1377 e	1102 e	918 e	689 e	493 e	343 e
1200S137-54	50	1836 e	1377 e	1102 e	918 e	689 e	551 e	459 e

HEADER ALLOWABLE UNIFORM LOADS (lb/ft)								
Member	Fy	SPAN						
	(ksi)	3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
1200S162-54	33	1836 e	1377 e	1102 e	918 e	689 e	551 e	386 e
1200S162-54	50	1836 e	1377 e	1102 e	918 e	689 e	551 e	459 e
1200S200-54	33	1836 e	1377 e	1102 e	918 e	689 e	551 e	444 e
1200S200-54	50	1836 e	1377 e	1102 e	918 e	689 e	551 e	459 e
1200S250-54	33	1836 e	1377 e	1102 e	918 e	689 e	551 e	454 e
1200S250-54	50	1836 e	1377 e	1102 e	918 e	689 e	551 e	459 e
1200S137-68	33	3694 e	2771 e	2217 e	1843 e	1037 e	664 e	461 e
1200S137-68	50	3694 e	2771 e	2217 e	1847 e	1385 e	937 e	651 e
1200S162-68	33	3694 e	2771 e	2217 e	1847 e	1160 e	742 e	515 e
1200S162-68	50	3694 e	2771 e	2217 e	1847 e	1385 e	1056 e	733 e
1200S200-68	33	3694 e	2771 e	2217 e	1847 e	1324 e	847 e	588 e
1200S200-68	50	3694 e	2771 e	2217 e	1847 e	1385 e	1108 e	821 e
1200S250-68	33	3694 e	2771 e	2217 e	1847 e	1385 e	921 e	640 e
1200S250-68	50	3694 e	2771 e	2217 e	1847 e	1385 e	1108 e	834 e
1200S137-97	33	10863 e	6421 e	4109 e	2854 e	1605 e	1027 e	713 e
1200S137-97	50	10863 e	8147 e	5854 e	4065 e	2287 e	1463 e	1016 e
1200S162-97	33	10863 e	7126 e	4561 e	3167 e	1781 e	1140 e	792 e
1200S162-97	50	10863 e	8147 e	6518 e	4537 e	2552 e	1633 e	1134 e
1200S200-97	33	10863 e	8068 e	5163 e	3586 e	2017 e	1291 e	896 e
1200S200-97	50	10863 e	8147 e	6518 e	5167 e	2907 e	1860 e	1292 e
1200S250-97	33	10863 e	8147 e	5792 e	4022 e	2263 e	1448 e	1006 e
1200S250-97	50	10863 e	8147 e	6518 e	5431 e	3142 e	2011 e	1397 e
1200S162-118	33	15685 e	8823 e	5646 e	3921 e	2206 e	1412 e	980 e
1200S162-118	50	19981 e	12896 e	8253 e	5731 e	3224 e	2063 e	1433 e
1200S200-118	33	17585 e	9976 e	6385 e	4434 e	2494 e	1596 e	1108 e
1200S200-118	50	19981 e	14634 e	9366 e	6504 e	3658 e	2341 e	1626 e
1200S250-118	33	17585 e	11178 e	7154 e	4968 e	2794 e	1788 e	1242 e
1200S250-118	50	19981 e	14986 e	10446 e	7254 e	4080 e	2611 e	1813 e
1200S300-118	33	17585 e	13189 e	8841 e	6139 e	3453 e	2210 e	1535 e
1200S300-118	50	19981 e	14986 e	11988 e	9025 e	5076 e	3249 e	2256 e
1200S350-118	33	17585 e	13189 e	10279 e	7139 e	4015 e	2570 e	1785 e
1200S350-118	50	19981 e	14986 e	11988 e	9990 e	5710 e	3654 e	2538 e
1400S200-54	33	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S200-54	50	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S250-54	33	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S250-54	50	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S300-54	33	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S300-54	50	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S350-54	33	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S350-54	50	1569 e	1177 e	941 e	784 e	588 e	471 e	392 e
1400S200-68	33	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	700 e
1400S200-68	50	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	788 e
1400S250-68	33	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	758 e
1400S250-68	50	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	788 e
1400S300-68	33	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	775 e
1400S300-68	50	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	788 e
1400S350-68	33	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	788 e
1400S350-68	50	3153 e	2365 e	1892 e	1576 e	1182 e	946 e	788 e
1400S200-97	33	9252 e	6939 e	5551 e	4331 e	2436 e	1559 e	1083 e
1400S200-97	50	9252 e	6939 e	5551 e	4626 e	3470 e	2228 e	1547 e

HEADER ALLOWABLE UNIFORM LOADS (lb/ft)								
Member	Fy	SPAN						
	(ksi)	3 (ft)	4 (ft)	5 (ft)	6 (ft)	8 (ft)	10 (ft)	12 (ft)
1400S250-97	33	9252 e	6939 e	5551 e	4626 e	2722 e	1742 e	1210 e
1400S250-97	50	9252 e	6939 e	5551 e	4626 e	3470 e	2399 e	1666 e
1400S300-97	33	9252 e	6939 e	5551 e	4626 e	2896 e	1854 e	1287 e
1400S300-97	50	9252 e	6939 e	5551 e	4626 e	3470 e	2544 e	1767 e
1400S350-97	33	9252 e	6939 e	5551 e	4626 e	3470 e	2548 e	1769 e
1400S350-97	50	9252 e	6939 e	5551 e	4626 e	3470 e	2776 e	2270 e
1400S200-118	33	16994 e	12318 e	7884 e	5475 e	3080 e	1971 e	1369 e
1400S200-118	50	16994 e	12745 e	10196 e	7870 e	4427 e	2833 e	1967 e
1400S250-118	33	16994 e	12745 e	8780 e	6097 e	3430 e	2195 e	1524 e
1400S250-118	50	16994 e	12745 e	10196 e	8497 e	4916 e	3146 e	2185 e
1400S300-118	33	16994 e	12745 e	9534 e	6621 e	3724 e	2383 e	1655 e
1400S300-118	50	16994 e	12745 e	10196 e	8497 e	5256 e	3364 e	2336 e
1400S350-118	33	16994 e	12745 e	10196 e	8497 e	4978 e	3186 e	2212 e
1400S350-118	50	16994 e	12745 e	10196 e	8497 e	6373 e	4539 e	3152 e
1600S200-68	33	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S200-68	50	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S250-68	33	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S250-68	50	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S300-68	33	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S300-68	50	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S350-68	33	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S350-68	50	2750 e	2062 e	1650 e	1375 e	1031 e	825 e	687 e
1600S200-97	33	8058 e	6043 e	4835 e	4029 e	2856 e	1828 e	1269 e
1600S200-97	50	8058 e	6043 e	4835 e	4029 e	3022 e	2417 e	1802 e
1600S250-97	33	8058 e	6043 e	4835 e	4029 e	3022 e	2036 e	1414 e
1600S250-97	50	8058 e	6043 e	4835 e	4029 e	3022 e	2417 e	1936 e
1600S300-97	33	8058 e	6043 e	4835 e	4029 e	3022 e	2161 e	1501 e
1600S300-97	50	8058 e	6043 e	4835 e	4029 e	3022 e	2417 e	2014 e
1600S350-97	33	8058 e	6043 e	4835 e	4029 e	3022 e	2417 e	1788 e
1600S350-97	50	8058 e	6043 e	4835 e	4029 e	3022 e	2417 e	2014 e
1600S200-118	33	14784 e	11088 e	8870 e	6484 e	3647 e	2334 e	1621 e
1600S200-118	50	14784 e	11088 e	8870 e	7392 e	5197 e	3326 e	2310 e
1600S250-118	33	14784 e	11088 e	8870 e	7193 e	4046 e	2589 e	1798 e
1600S250-118	50	14784 e	11088 e	8870 e	7392 e	5544 e	3682 e	2557 e
1600S300-118	33	14784 e	11088 e	8870 e	7392 e	4379 e	2803 e	1946 e
1600S300-118	50	14784 e	11088 e	8870 e	7392 e	5544 e	3927 e	2727 e
1600S350-118	33	14784 e	11088 e	8870 e	7392 e	5091 e	3259 e	2263 e
1600S350-118	50	14784 e	11088 e	8870 e	7392 e	5544 e	4435 e	3134 e

WE TAKE OUR TIME
SO YOU CAN SAVE YOURS.

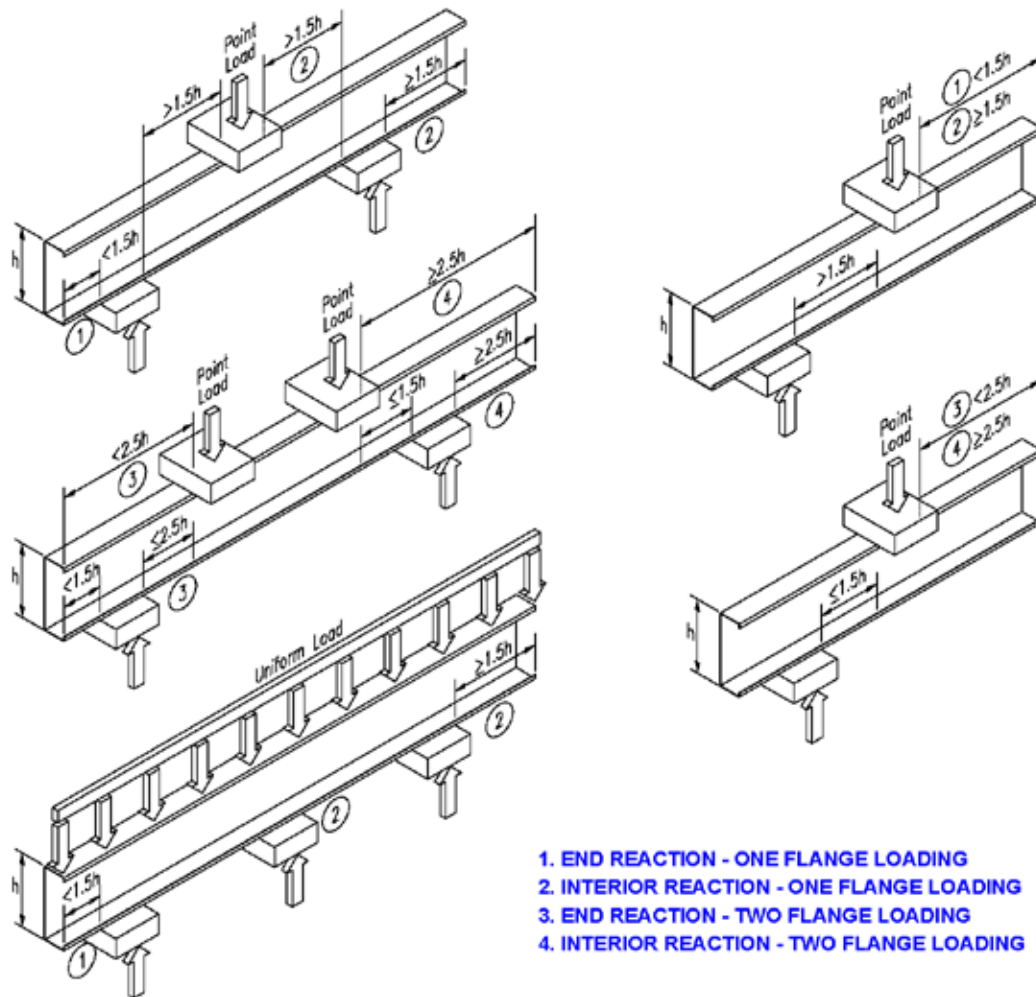


A photograph of a mechanical testing machine, likely a web crippling load table, used in industrial or laboratory settings. The machine features a blue-painted metal frame with several large, dark, worn gears and rollers. Several orange-handled adjustment screws are visible on top of the machine. The background shows a blurred industrial environment with yellow structural elements and various mechanical components. The text "WEB CRIPPLING LOAD TABLES" is overlaid in large, white, bold, sans-serif capital letters across the center of the image.

WEB CRIPPLING LOAD TABLES

NOTES:

1. All capacities listed are calculated using AISI S100-12.
2. Web crippling capacities calculated are for studs with stiffened or partially stiffened flanges.
3. Tabulated web crippling capacities are for single members only. For multiple members, multiply the tabulated values by number of members in the assembly.
4. Listed allowable capacities are based on members 'fastened to supports', except back-to-back members under two-flange loading (condition 3 and 4) for which data for 'fastened to support' is unavailable in the AISI S100-12.
5. Listed allowable capacities are for un-punched webs. Capacity reduction for end and interior one flange loading (conditions 1 and 2) near punch-outs may be required per Section C3.4.2 of S100.



1. END REACTION - ONE FLANGE LOADING
2. INTERIOR REACTION - ONE FLANGE LOADING
3. END REACTION - TWO FLANGE LOADING
4. INTERIOR REACTION - TWO FLANGE LOADING

ALLOWABLE WEB CRIPPLING LOADS (lbs) - SINGLE MEMBERS																			
Member	Design Thickness	Inside Radius	Fy	Condition 1				Condition 2				Condition 3				Condition 4			
	(in)	(in)	(ksi)	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
162S - 18	0.0188	0.0843	33	55	90 ¹	95 ^{1,2}	112 ^{1,2}	87	125 ¹	131 ^{1,2}	151 ^{1,2}	45	64 ¹	67 ^{1,2}	76 ^{1,2}	122	161 ¹	166 ^{1,2}	186 ^{1,2}
162S - 27	0.0283	0.0796	33	122	194 ¹	205 ¹	242 ^{1,2}	218	304 ¹	317 ¹	361 ^{1,2}	111	151 ¹	157 ¹	178 ^{1,2}	290	371 ¹	383 ¹	425 ^{1,2}
162S - 30	0.0312	0.0781	33	148	233 ¹	246 ¹	290 ¹	269	373 ¹	388 ¹	442 ¹	137	185 ¹	192 ¹	217 ¹	356	452 ¹	466 ¹	516 ¹
162S - 33	0.0346	0.0764	33	180	282 ¹	297 ¹	350 ¹	336	462 ¹	481 ¹	546 ¹	170	229 ¹	237 ¹	267 ¹	441	557 ¹	574 ¹	634 ¹
162S - 43	0.0451	0.0712	33	298	459 ¹	483 ¹	566 ¹	589	793 ¹	823 ¹	929 ¹	297	390 ¹	404 ¹	452 ¹	764	946 ¹	973 ¹	1067 ¹
162S - 54	0.0566	0.0849	33	447	678 ¹	712 ¹	832 ¹	904	1196 ¹	1239 ¹	1390 ¹	471	609 ¹	629 ¹	700 ¹	1203	1466 ¹	1506 ¹	1642 ¹
162S - 54	0.0566	0.0849	50	677	1027 ¹	1079 ¹	1260 ¹	1370	1812 ¹	1877 ¹	2105 ¹	714	922 ¹	953 ¹	1061 ¹	1823	2222 ¹	2281 ¹	2487 ¹
162S - 68	0.0713	0.1069	33	672	1004 ¹	1054 ¹	1225 ¹	1386	1802 ¹	1863 ¹	2077 ¹	750	952 ¹	982 ¹	1087 ¹	1901	2282 ¹	2339 ¹	2536 ¹
162S - 68	0.0713	0.1069	50	1019	1522 ¹	1596 ¹	1856 ¹	2100	2730 ¹	2823 ¹	3148 ¹	1136	1443 ¹	1488 ¹	1646 ¹	2880	3458 ¹	3544 ¹	3842 ¹
250S - 18	0.0188	0.0843	33	52	84	89 ²	106 ^{1,2}	85	122	128 ²	147 ^{1,2}	37	51	54 ²	61 ^{1,2}	109	145	150 ²	168 ^{1,2}
250S - 27	0.0283	0.0796	33	117	186	196	231 ^{1,2}	213	298	310	354 ^{1,2}	96	130	135	153 ^{1,2}	268	343	354	393 ^{1,2}
250S - 30	0.0312	0.0781	33	141	223	235	277 ¹	264	366	381	433 ¹	119	161	167	189 ¹	330	420	433	479 ¹
250S - 33	0.0346	0.0764	33	173	271	285	336 ¹	330	453	472	535 ¹	150	201	209	235 ¹	411	519	535	591 ¹
250S - 43	0.0451	0.0712	33	287	443	466	547 ¹	580	780	810	913 ¹	267	351	364	407 ¹	720	892	918	1006 ¹
250S - 54	0.0566	0.0849	33	433	657	690	806 ¹	891	1178	1221	1369 ¹	430	556	574	639 ¹	1142	1392	1429	1558 ¹
250S - 54	0.0566	0.0849	50	656	996	1046	1222 ¹	1350	1785	1850	2075 ¹	652	842	870	968 ¹	1730	2109	2165	2361 ¹
250S - 68	0.0713	0.1069	33	654	977	1024	1191 ¹	1368	1778	1839	2050 ¹	693	880	907	1004 ¹	1815	2179	2233	2421 ¹
250S - 68	0.0713	0.1069	50	990	1480	1552	1805 ¹	2073	2694	2786	3106 ¹	1049	1333	1375	1521 ¹	2750	3302	3384	3669 ¹
350S - 18	0.0188	0.0843	33	49	80	84 ²	100 ²	83	119	124 ²	143 ²	28	40	42 ²	48 ²	98	130	134 ²	151 ²
350S - 27	0.0283	0.0796	33	112	177	187	221 ²	209	292	304	347 ²	81	111	115	130 ²	247	316	327	362 ²
350S - 30	0.0312	0.0781	33	135	214	226	266	259	359	374	425	103	139	144	163	306	389	402	445
350S - 33	0.0346	0.0764	33	166	260	274	323	324	445	463	526	131	175	182	205	384	484	499	551
350S - 43	0.0451	0.0712	33	278	428	451	528	571	768	798	900	240	315	326	365	680	842	866	949
350S - 54	0.0566	0.0849	33	420	638	670	783	879	1162	1204	1351	392	507	524	583	1086	1324	1359	1482
350S - 54	0.0566	0.0849	50	637	967	1016	1186	1331	1761	1825	2046	594	768	794	883	1645	2005	2059	2245
350S - 68	0.0713	0.1069	33	637	951	998	1160	1351	1756	1816	2025	640	813	839	928	1737	2085	2137	2317
350S - 68	0.0713	0.1069	50	965	1441	1512	1758	2047	2661	2752	3068	970	1232	1271	1406	2631	3159	3238	3510
350S - 97	0.1017	0.1525	33	1209	1760	1841	2126	2629	3328	3431	3792	1343	1663	1710	1876	3562	4184	4276	4597
350S - 97	0.1017	0.1525	50	1831	2666	2790	3221	3983	5042	5199	5745	2035	2520	2592	2842	5397	6339	6479	6966
362S - 18	0.0188	0.0843	33	49	79	84 ²	99 ²	82	119	124 ²	143 ²	27	39	40 ²	46 ²	97	128	133 ²	149 ²
362S - 27	0.0283	0.0796	33	111	177	186	220 ²	209	291	303	346 ²	80	108	113	127 ²	245	313	324	359 ²
362S - 30	0.0312	0.0781	33	135	213	224	265	258	358	373	424	101	136	141	160	304	386	398	441
362S - 33	0.0346	0.0764	33	165	259	273	322	323	444	462	525	129	173	179	202	381	480	495	547
362S - 43	0.0451	0.0712	33	277	427	449	526	570	767	796	898	236	311	322	360	675	836	860	943
362S - 54	0.0566	0.0849	33	419	636	668	780	877	1160	1202	1348	388	501	518	577	1079	1316	1351	1473
362S - 54	0.0566	0.0849	50	634	963	1012	1182	1329	1758	1822	2043	588	760	785	874	1635	1994	2047	2232
362S - 68	0.0713	0.1069	33	635	948	995	1157	1349	1754	1813	2022	635	806	831	920	1728	2074	2126	2305
362S - 68	0.0713	0.1069	50	962	1437	1507	1753	2044	2657	2748	3064	961	1221	1259	1393	2618	3143	3221	3492
362S - 97	0.1017	0.1525	33	1206	1755	1837	2120	2626	3324	3427	3787	1333	1651	1698	1862	3547	4166	4258	4578
362S - 97	0.1017	0.1525	50	1827	2659	2783	3212	3979	5036	5192	5738	2020	2501	2573	2821	5374	6313	6452	6936
400S - 27	0.0283	0.0796	33	109	174	183	217 ²	207	289	301	344 ²	75	102	106	120 ²	238	305	315	349 ²
400S - 30	0.0312	0.0781	33	133	210	221	261	257	356	370	421	95	129	134	151	296	376	388	429
400S - 33	0.0346	0.0764	33	163	256	269	317	322	442	460	522	122	164	170	192	372	469	483	534
400S - 43	0.0451	0.0712	33	274	422	444	520	567	763	792	893	227	299	309	346	662	819	843	924
400S - 54	0.0566	0.0849	33	415	629	661	772	873	1155	1197	1342	376	485	502	558	1061	1293	1328	1448
400S - 54	0.0566	0.0849	50	628	954	1002	1170	1323	1750	1813	2034	569	735	760	846	1607	1960	2012	2194
400S - 68	0.0713	0.1069	33	629	940	986	1147	1344	1746	1806	2014	617	784	809	895	1702	2044	2094	2271
400S - 68	0.0713	0.1069	50	953	1424	1494	1737	2036	2646	2737	3051	936	1188	1226	1356	2579	3097	3173	3441

ALLOWABLE WEB CRIPPLING LOADS (lbs) - SINGLE MEMBERS																			
Member	Design Thickness	Inside Radius	Fy	Condition 1				Condition 2				Condition 3				Condition 4			
	(in)	(in)	(ksi)	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
400S - 97	0.1017	0.1525	33	1197	1742	1823	2105	2617	3312	3415	3774	1305	1616	1662	1823	3504	4116	4207	4523
400S - 97	0.1017	0.1525	50	1814	2640	2762	3189	3965	5018	5175	5718	1978	2448	2518	2761	5309	6236	6374	6853
550S - 27	0.0283	0.0796	33	103	164	173	205 ²	202	282	294	336 ²	58	79	82	93 ²	214	274	283	314 ²
550S - 30	0.0312	0.0781	33	126	199	210	248	251	348	362	412	76	103	107	120	268	341	351	389
550S - 33	0.0346	0.0764	33	155	243	256	302	315	432	450	511	100	134	139	157	339	428	441	487
550S - 43	0.0451	0.0712	33	262	405	426	499	556	749	778	877	195	256	265	297	614	760	782	858
550S - 54	0.0566	0.0849	33	400	607	638	745	859	1136	1177	1320	331	428	443	493	995	1213	1246	1358
550S - 54	0.0566	0.0849	50	606	920	966	1128	1302	1722	1784	2001	502	649	671	746	1508	1838	1887	2058
550S - 68	0.0713	0.1069	33	609	911	955	1111	1324	1721	1780	1985	557	707	729	807	1611	1934	1982	2149
550S - 68	0.0713	0.1069	50	923	1380	1447	1683	2007	2608	2697	3007	844	1071	1105	1223	2441	2931	3003	3256
550S - 97	0.1017	0.1525	33	1166	1697	1776	2050	2585	3272	3374	3728	1205	1492	1535	1683	3352	3937	4024	4326
550S - 97	0.1017	0.1525	50	1766	2571	2691	3106	3917	4957	5112	5649	1826	2261	2326	2550	5079	5966	6097	6555
600S - 30	0.0312	0.0781	33	124	196	206	244	249	345	360	409	70	95	98	111	260	330	340	377
600S - 33	0.0346	0.0764	33	153	240	253	297	313	430	447	507	93	125	130	146	330	416	429	473
600S - 43	0.0451	0.0712	33	259	400	420	493	553	745	773	872	185	243	252	282	600	743	764	838
600S - 54	0.0566	0.0849	33	395	600	631	736	855	1131	1172	1314	318	411	425	473	975	1189	1221	1331
600S - 54	0.0566	0.0849	50	599	909	956	1116	1295	1713	1775	1991	482	623	644	716	1478	1802	1850	2017
600S - 68	0.0713	0.1069	33	604	902	946	1100	1319	1714	1772	1976	539	684	706	781	1584	1901	1949	2113
600S - 68	0.0713	0.1069	50	914	1366	1433	1666	1998	2596	2685	2994	816	1036	1069	1183	2399	2881	2952	3201
600S - 97	0.1017	0.1525	50	1752	2551	2669	3081	3902	4939	5093	5628	1781	2205	2268	2487	5010	5885	6014	6466
600S - 118	0.1242	0.1863	50	2528	3625	3788	4354	5698	7108	7318	8046	2734	3339	3429	3741	7555	8772	8952	9581
800S - 43	0.0451	0.0712	33	247	381	401	470	542	730	757	854	150	197	204	228	548	678	698	765
800S - 54	0.0566	0.0849	33	379	576	605	706	839	1110	1150	1290	270	349	361	402	904	1102	1131	1234
800S - 54	0.0566	0.0849	50	575	872	917	1070	1272	1682	1743	1955	409	529	547	608	1370	1670	1714	1869
800S - 68	0.0713	0.1069	33	582	870	912	1061	1297	1686	1744	1944	473	601	619	685	1485	1783	1827	1981
800S - 68	0.0713	0.1069	50	882	1318	1382	1607	1966	2555	2642	2946	716	910	939	1038	2250	2701	2768	3001
800S - 97	0.1017	0.1525	50	1702	2477	2592	2992	3850	4873	5025	5553	1618	2003	2060	2259	4761	5593	5716	6146
800S - 118	0.1242	0.1863	50	2462	3531	3689	4241	5629	7023	7229	7949	2518	3075	3158	3445	7223	8387	8559	9160
1000S - 54	0.0566	0.0849	33	365	554	582	680	826	1092	1132	1269	228	295	305	339	841	1026	1053	1148
1000S - 54	0.0566	0.0849	50	553	840	882	1031	1251	1655	1715	1923	346	447	462	514	1275	1554	1595	1740
1000S - 68	0.0713	0.1069	33	563	842	883	1027	1279	1662	1719	1917	415	527	544	602	1398	1679	1721	1866
1000S - 68	0.0713	0.1069	50	854	1275	1338	1556	1938	2518	2604	2904	629	799	824	912	2119	2544	2607	2827
1000S - 97	0.1017	0.1525	50	1657	2413	2525	2914	3805	4816	4966	5488	1476	1827	1879	2060	4545	5338	5456	5866
1000S - 118	0.1242	0.1863	50	2405	3449	3604	4143	5569	6948	7152	7864	2330	2845	2921	3187	6934	8051	8217	8794
1200S - 68	0.0713	0.1069	33	547	817	857	996	1262	1641	1697	1892	363	462	476	527	1320	1585	1625	1762
1200S - 68	0.0713	0.1069	50	828	1237	1298	1509	1913	2486	2571	2866	551	699	721	798	2001	2402	2462	2669
1200S - 97	0.1017	0.1525	50	1618	2355	2464	2844	3764	4764	4912	5429	1348	1668	1716	1882	4350	5109	5222	5614
1200S - 118	0.1242	0.1863	50	2354	3375	3527	4054	5515	6881	7083	7788	2161	2638	2709	2956	6675	7750	7910	8465
1400S - 68	0.0713	0.1069	33	531	793	832	968	1247	1621	1676	1869	316	401	414	458	1249	1500	1537	1666
1400S - 68	0.0713	0.1069	50	805	1202	1261	1466	1890	2456	2540	2832	479	608	627	694	1892	2272	2329	2525
1400S - 97	0.1017	0.1525	50	1581	2302	2408	2780	3727	4717	4864	5375	1230	1523	1567	1718	4171	4900	5008	5384
1400S - 118	0.1242	0.1863	50	2307	3308	3456	3973	5466	6819	7020	7719	2006	2449	2515	2744	6437	7474	7628	8164
1600S - 97	0.1017	0.1525	50	1547	2252	2357	2721	3692	4673	4818	5325	1121	1388	1428	1566	4005	4705	4809	5170
1600S - 118	0.1242	0.1863	50	2263	3245	3391	3898	5420	6762	6961	7654	1862	2274	2335	2548	6217	7219	7367	7884

Bearing length to web height ratio, N/h, exceeds limit of 2.0
 Bearing length to thickness ratio, N/t, exceeds limit of 210

ALLOWABLE WEB CRIPPLING LOADS (lbs) - BACK TO BACK MEMBERS																			
Member	Design Thickness	Inside Radius	Fy	Condition 1				Condition 2				Condition 3				Condition 4			
	(in)	(in)	(ksi)	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
162S - 18	0.0188	0.0843	33	124	196 ¹	207 ^{1,2}	244 ^{1,2}	156	217 ¹	226 ^{1,2}	257 ^{1,2}	76	100 ¹	103 ^{1,2}	116 ^{1,2}	153	202 ¹	209 ^{1,2}	234 ^{1,2}
162S - 27	0.0283	0.0796	33	268	413 ¹	435 ¹	510 ^{1,2}	363	489 ¹	507 ¹	572 ^{1,2}	184	236 ¹	244 ¹	270 ^{1,2}	386	494 ¹	510 ¹	566 ^{1,2}
162S - 30	0.0312	0.0781	33	321	493 ¹	518 ¹	606 ¹	443	592 ¹	614 ¹	690 ¹	227	288 ¹	298 ¹	329 ¹	478	608 ¹	628 ¹	695 ¹
162S - 33	0.0346	0.0764	33	389	593 ¹	623 ¹	729 ¹	547	724 ¹	750 ¹	842 ¹	283	357 ¹	368 ¹	406 ¹	600	757 ¹	781 ¹	862 ¹
162S - 43	0.0451	0.0712	33	638	953 ¹	1000 ¹	1163 ¹	933	1211 ¹	1252 ¹	1395 ¹	494	612 ¹	629 ¹	690 ¹	1066	1320 ¹	1358 ¹	1489 ¹
162S - 54	0.0566	0.0849	33	949	1395 ¹	1462 ¹	1692 ¹	1427	1820 ¹	1878 ¹	2081 ¹	784	956 ¹	982 ¹	1071 ¹	1696	2068 ¹	2123 ¹	2315 ¹
162S - 54	0.0566	0.0849	50	1438	2114 ¹	2215 ¹	2564 ¹	2162	2757 ¹	2846 ¹	3153 ¹	1188	1449 ¹	1488 ¹	1622 ¹	2570	3134 ¹	3217 ¹	3508 ¹
162S - 68	0.0713	0.1069	33	1418	2050 ¹	2144 ¹	2470 ¹	2188	2744 ¹	2826 ¹	3113 ¹	1250	1501 ¹	1538 ¹	1667 ¹	2703	3246 ¹	3326 ¹	3606 ¹
162S - 68	0.0713	0.1069	50	2148	3106 ¹	3248 ¹	3742 ¹	3315	4157 ¹	4282 ¹	4717 ¹	1894	2274 ¹	2330 ¹	2526 ¹	4096	4918 ¹	5040 ¹	5464 ¹
250S - 18	0.0188	0.0843	33	123	196 ¹	206 ^{1,2}	244 ^{1,2}	156	216 ¹	225 ^{1,2}	256 ^{1,2}	65	85 ¹	88 ^{1,2}	99 ^{1,2}	131	172 ¹	179 ^{1,2}	200 ^{1,2}
250S - 27	0.0283	0.0796	33	267	412 ¹	434 ¹	509 ^{1,2}	363	488 ¹	506 ¹	571 ^{1,2}	164	211 ¹	217 ¹	241 ^{1,2}	344	441 ¹	455 ¹	505 ^{1,2}
250S - 30	0.0312	0.0781	33	320	492 ¹	517 ¹	605 ¹	443	590 ¹	612 ¹	689 ¹	204	260 ¹	268 ¹	296 ¹	430	547 ¹	564 ¹	625 ¹
250S - 33	0.0346	0.0764	33	389	592 ¹	622 ¹	727 ¹	546	723 ¹	749 ¹	840 ¹	256	323 ¹	333 ¹	368 ¹	544	686 ¹	708 ¹	781 ¹
250S - 43	0.0451	0.0712	33	637	952 ¹	999 ¹	1162 ¹	932	1209 ¹	1250 ¹	1393 ¹	455	563 ¹	580 ¹	636 ¹	982	1216 ¹	1251 ¹	1371 ¹
250S - 54	0.0566	0.0849	33	947	1393 ¹	1460 ¹	1690 ¹	1425	1817 ¹	1876 ¹	2078 ¹	730	890 ¹	914 ¹	997 ¹	1579	1925 ¹	1977 ¹	2155 ¹
250S - 54	0.0566	0.0849	50	1435	2111 ¹	2212 ¹	2560 ¹	2159	2753 ¹	2842 ¹	3149 ¹	1106	1349 ¹	1385 ¹	1510 ¹	2393	2917 ¹	2995 ¹	3266 ¹
250S - 68	0.0713	0.1069	33	1416	2047 ¹	2141 ¹	2467 ¹	2185	2740 ¹	2823 ¹	3109 ¹	1174	1409 ¹	1444 ¹	1566 ¹	2539	3048 ¹	3124 ¹	3387 ¹
250S - 68	0.0713	0.1069	50	2145	3102 ¹	3244 ¹	3737 ¹	3311	4152 ¹	4277 ¹	4711 ¹	1778	2135 ¹	2188 ¹	2373 ¹	3846	4618 ¹	4733 ¹	5131 ¹
350S - 18	0.0188	0.0843	33	123	195 ¹	206 ^{1,2}	243 ^{1,2}	156	216 ¹	225 ^{1,2}	256 ^{1,2}	55	72 ¹	75 ^{1,2}	84 ^{1,2}	110	145 ¹	151 ^{1,2}	169 ^{1,2}
350S - 27	0.0283	0.0796	33	267	412 ¹	433 ¹	508 ^{1,2}	362	487 ¹	505 ¹	570 ^{1,2}	146	187 ¹	193 ¹	214 ^{1,2}	306	391 ¹	404 ¹	448 ^{1,2}
350S - 30	0.0312	0.0781	33	320	491 ¹	516 ¹	604 ¹	442	589 ¹	611 ¹	688 ¹	183	233 ¹	240 ¹	266 ¹	386	490 ¹	506 ¹	560 ¹
350S - 33	0.0346	0.0764	33	388	591 ¹	621 ¹	726 ¹	545	721 ¹	748 ¹	839 ¹	232	292 ¹	301 ¹	333 ¹	492	621 ¹	640 ¹	706 ¹
350S - 43	0.0451	0.0712	33	636	951 ¹	997 ¹	1160 ¹	931	1207 ¹	1248 ¹	1391 ¹	419	519 ¹	534 ¹	585 ¹	904	1119 ¹	1151 ¹	1263 ¹
350S - 54	0.0566	0.0849	33	946	1392 ¹	1458 ¹	1688 ¹	1423	1815 ¹	1873 ¹	2075 ¹	680	829 ¹	852 ¹	929 ¹	1471	1794 ¹	1842 ¹	2008 ¹
350S - 54	0.0566	0.0849	50	1434	2109 ¹	2209 ¹	2557 ¹	2156	2750 ¹	2838 ¹	3144 ¹	1031	1257 ¹	1290 ¹	1407 ¹	2229	2718 ¹	2791 ¹	3043 ¹
350S - 68	0.0713	0.1069	33	1414	2045 ¹	2138 ¹	2464 ¹	2183	2737 ¹	2819 ¹	3106 ¹	1104	1326 ¹	1359 ¹	1473 ¹	2388	2867 ¹	2939 ¹	3186 ¹
350S - 68	0.0713	0.1069	50	2143	3098 ¹	3240 ¹	3733 ¹	3307	4147 ¹	4272 ¹	4706 ¹	1673	2009 ¹	2059 ¹	2232 ¹	3618	4345 ¹	4452 ¹	4827 ¹
350S - 97	0.1017	0.1525	33	2641	3716 ¹	3876 ¹	4431 ¹	4235	5181 ¹	5321 ¹	5809 ¹	2305	2708 ¹	2768 ¹	2976 ¹	4986	5857 ¹	5986 ¹	6435 ¹
350S - 97	0.1017	0.1525	50	4002	5631 ¹	5873 ¹	6713 ¹	6416	7850 ¹	8062 ¹	8802 ¹	3493	4103 ¹	4194 ¹	4508 ¹	7555	8874 ¹	9070 ¹	9751 ¹
362S - 18	0.0188	0.0843	33	123	195 ¹	206 ^{1,2}	243 ^{1,2}	155	216 ¹	225 ^{1,2}	256 ^{1,2}	53	70 ¹	73 ^{1,2}	82 ^{1,2}	108	142 ¹	147 ^{1,2}	165 ^{1,2}
362S - 27	0.0283	0.0796	33	266	411 ¹	433 ¹	508 ^{1,2}	362	487 ¹	505 ¹	570 ^{1,2}	144	184 ¹	190 ¹	211 ^{1,2}	301	386 ¹	398 ¹	442 ^{1,2}
362S - 30	0.0312	0.0781	33	320	491 ¹	516 ¹	604 ¹	442	589 ¹	611 ¹	687 ¹	181	230 ¹	237 ¹	262 ¹	381	484 ¹	499 ¹	553 ¹
362S - 33	0.0346	0.0764	33	388	591 ¹	621 ¹	726 ¹	545	721 ¹	747 ¹	839 ¹	229	289 ¹	298 ¹	329 ¹	486	613 ¹	632 ¹	698 ¹
362S - 43	0.0451	0.0712	33	636	950 ¹	997 ¹	1160 ¹	930	1207 ¹	1248 ¹	1391 ¹	415	514 ¹	528 ¹	579 ¹	895	1109 ¹	1140 ¹	1250 ¹
362S - 54	0.0566	0.0849	33	946	1391 ¹	1458 ¹	1687 ¹	1423	1815 ¹	1873 ¹	2075 ¹	675	823 ¹	845 ¹	921 ¹	1459	1779 ¹	1826 ¹	1992 ¹
362S - 54	0.0566	0.0849	50	1433	2108 ¹	2208 ¹	2557 ¹	2156	2750 ¹	2838 ¹	3144 ¹	1022	1246 ¹	1280 ¹	1395 ¹	2211	2695 ¹	2767 ¹	3017 ¹
362S - 68	0.0713	0.1069	33	1414	2045 ¹	2138 ¹	2463 ¹	2182	2737 ¹	2819 ¹	3105 ¹	1096	1316 ¹	1349 ¹	1463 ¹	2371	2847 ¹	2918 ¹	3163 ¹
362S - 68	0.0713	0.1069	50	2143	3098 ¹	3239 ¹	3732 ¹	3											

ALLOWABLE WEB CRIPPLING LOADS (lbs) - BACK TO BACK MEMBERS																			
Member	Design Thickness (in)	Inside Radius (in)	Fy (ksi)	Condition 1				Condition 2				Condition 3				Condition 4			
				1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
400S - 97	0.1017	0.1525	33	2640	3715	3874 ¹	4429 ¹	4233	5178	5319 ¹	5807 ¹	2254	2648	2706 ¹	2909 ¹	4875	5726	5853 ¹	6292 ¹
400S - 97	0.1017	0.1525	50	4000	5628	5870 ¹	6711 ¹	6414	7846	8059 ¹	8798 ¹	3415	4012	4100 ¹	4408 ¹	7386	8676	8868 ¹	9534 ¹
550S - 27	0.0283	0.0796	33	266	410	432	506 ^{1,2}	361	485	504	568 ^{1,2}	116	149	154	171 ^{1,2}	244	312	322	357 ^{1,2}
550S - 30	0.0312	0.0781	33	319	489	515	603 ¹	441	588	610	686 ¹	149	189	195	216 ¹	314	399	411	455 ¹
550S - 33	0.0346	0.0764	33	387	590	620	724 ¹	544	720	746	836 ¹	192	242	250	276 ¹	407	514	530	585 ¹
550S - 43	0.0451	0.0712	33	634	948	995	1157 ¹	928	1204	1245	1388 ¹	361	447	459	504 ¹	778	964	991	1087 ¹
550S - 54	0.0566	0.0849	33	944	1389	1455	1684 ¹	1420	1811	1869	2071 ¹	600	732	751	819 ¹	1298	1582	1624	1771 ¹
550S - 54	0.0566	0.0849	50	1431	2104	2204	2552 ¹	2152	2744	2832	3138 ¹	909	1108	1138	1241 ¹	1966	2397	2461	2683 ¹
550S - 68	0.0713	0.1069	33	1412	2041	2134	2459 ¹	2179	2732	2814	3100 ¹	993	1192	1222	1324 ¹	2147	2578	2642	2864 ¹
550S - 68	0.0713	0.1069	50	2139	3092	3234	3726 ¹	3301	4139	4264	4697 ¹	1504	1806	1851	2007 ¹	3253	3906	4003	4340 ¹
550S - 97	0.1017	0.1525	33	2637	3710	3870	4424 ¹	4228	5172	5313	5800 ¹	2119	2489	2544	2735 ¹	4583	5383	5502	5915 ¹
550S - 97	0.1017	0.1525	50	3995	5622	5863	6703 ¹	6406	7837	8049	8788 ¹	3211	3771	3855	4144 ¹	6944	8157	8337	8963 ¹
600S - 30	0.0312	0.0781	33	319	489	514	602 ¹	440	587	609	685 ¹	141	180	185	205 ¹	298	379	391	433 ¹
600S - 33	0.0346	0.0764	33	387	589	619	724 ¹	543	719	745	836 ¹	183	231	238	263 ¹	389	491	506	559 ¹
600S - 43	0.0451	0.0712	33	634	948	995	1157 ¹	928	1204	1245	1387 ¹	348	431	443	486 ¹	751	930	956	1048 ¹
600S - 54	0.0566	0.0849	33	944	1388	1454	1683 ¹	1420	1810	1868	2070 ¹	583	710	729	795 ¹	1260	1536	1577	1719 ¹
600S - 54	0.0566	0.0849	50	1430	2103	2203	2551 ¹	2151	2743	2831	3136 ¹	883	1076	1105	1205 ¹	1909	2327	2389	2605 ¹
600S - 68	0.0713	0.1069	33	1411	2040	2133	2458 ¹	2178	2731	2813	3099 ¹	968	1163	1192	1292 ¹	2095	2515	2577	2794 ¹
600S - 68	0.0713	0.1069	50	2138	3091	3233	3724 ¹	3299	4138	4262	4695 ¹	1467	1762	1806	1958 ¹	3173	3811	3905	4234 ¹
600S - 97	0.1017	0.1525	50	3994	5620	5861	6701 ¹	6404	7834	8046	8785 ¹	3150	3700	3781	4065 ¹	6812	8001	8178	8792 ¹
600S - 118	0.1242	0.1863	50	5696	7892	8218	9351 ¹	9325	11257	11543	12540 ¹	4808	5583	5698	6097 ¹	10398	12074	12322	13187 ¹
800S - 43	0.0451	0.0712	33	633	946	993	1154	926	1202	1242	1384	302	374	384	421	651	806	829	909
800S - 54	0.0566	0.0849	33	942	1386	1452	1681	1417	1807	1865	2067	519	633	650	709	1123	1369	1405	1532
800S - 54	0.0566	0.0849	50	1428	2100	2200	2546	2147	2738	2826	3131	787	959	985	1074	1701	2074	2129	2322
800S - 68	0.0713	0.1069	33	1409	2037	2130	2455	2174	2727	2809	3094	881	1058	1084	1175	1905	2287	2344	2542
800S - 68	0.0713	0.1069	50	2135	3087	3228	3719	3295	4132	4256	4688	1335	1602	1642	1780	2886	3466	3552	3851
800S - 97	0.1017	0.1525	50	3989	5613	5854	6692	6396	7825	8036	8774	2929	3441	3517	3781	6335	7442	7606	8177
800S - 118	0.1242	0.1863	50	5690	7883	8209	9341	9314	11244	11530	12526	4514	5241	5349	5724	9762	11335	11568	12380
1000S - 54	0.0566	0.0849	33	941	1384	1450	1678	1415	1805	1863	2064	464	565	580	633	1003	1222	1255	1368
1000S - 54	0.0566	0.0849	50	1426	2097	2196	2543	2144	2735	2822	3127	702	856	879	959	1519	1852	1901	2073
1000S - 68	0.0713	0.1069	33	1407	2035	2128	2451	2172	2723	2805	3090	804	965	989	1073	1739	2088	2140	2320
1000S - 68	0.0713	0.1069	50	2132	3083	3224	3714	3290	4126	4250	4682	1218	1463	1499	1625	2635	3164	3242	3515
1000S - 97	0.1017	0.1525	50	3985	5607	5848	6685	6389	7816	8028	8764	2737	3215	3286	3533	5919	6953	7107	7640
1000S - 118	0.1242	0.1863	50	5684	7875	8200	9332	9305	11233	11519	12514	4257	4943	5045	5399	9208	10691	10911	11677
1200S - 68	0.0713	0.1069	33	1406	2032	2125	2449	2169	2720	2802	3086	735	883	904	981	1590	1909	1956	2121
1200S - 68	0.0713	0.1069	50	2130	3079	3220	3710	3287	4122	4245	4676	1114	1337	1370	1486	2408	2892	2964	3213
1200S - 97	0.1017	0.1525	50	3981	5601	5842	6678	6383	7808	8020	8756	2564	3012	3078	3309	5545	6514	6658	7158
1200S - 118	0.1242	0.1863	50	5679	7868	8193	9323	9297	11223	11508	12503	4027	4676	4772	5107	8710	10113	10321	11046
1400S - 68	0.0713	0.1069	33	1404	2030	2123	2446	2167	2717	2799	3083	672	806	826	896	1452	1744	1787	1938
1400S - 68	0.0713	0.1069	50	2127	3076	3216	3706	3283	4117	4241	4671	1018	1222	1252	1358	2201	2642	2708	2936
1400S - 97	0.1017	0.1525	50	3977	5596	5837	6672	6377	7801	8013	8748	2406	2826	2888	3105	5203	6111	6246	6715
1400S - 118	0.1242	0.1863	50	5674	7862	8186	9316	9289	11214	11499	12492	3817	4432	4523	4840	8254	9584	9781	10468
1600S - 97	0.1017	0.1525	50	3974	5592	5832	6667	6372	7795	8006	8741	2259	2653	2712	2915	4885	5738	5864	6305
1600S - 118	0.1242	0.1863	50	5670	7856	8180	9309	9282	11205	11490	12483	3621	4205	4291	4592	7832	9093	9281	9932

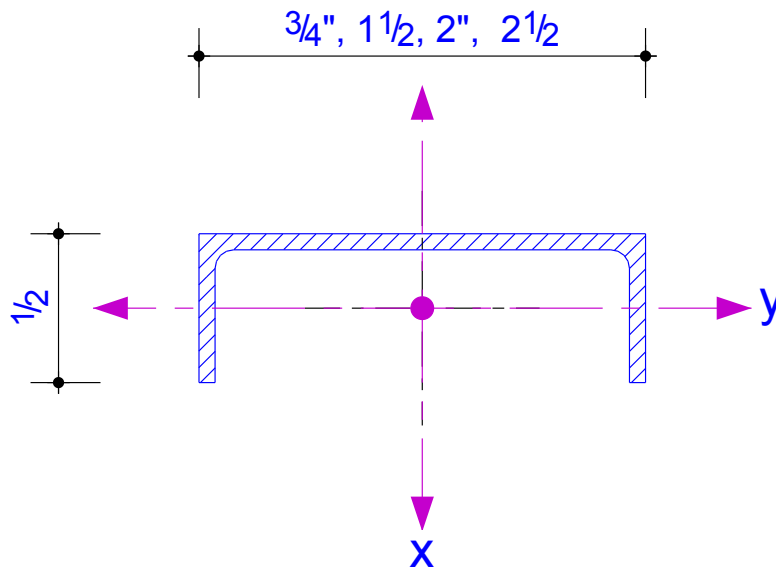
Bearing length to web height ratio, N/h, exceeds limit of 2.0
 Bearing length to thickness ratio, N/t, exceeds limit of 210

A large industrial machine, likely a metal rolling mill, is shown in a factory setting. It features two large, horizontal rotating wheels. The wheel on the left is silver and appears to be made of polished metal. The wheel on the right is orange and has a more weathered, rusty appearance. A metal frame supports the wheels, and various mechanical components, including a motor and control system, are visible. The background shows a typical industrial environment with concrete floors and metal structures.

U-CHANNEL SECTION PROPERTIES

U-CHANNEL SECTION PROPERTIES

U-CHANNEL SECTION PROPERTIES												
Section	Design Thickness (in)	Yield Strength (ksi)	Gross Properties						Effective Properties			
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)	V _a (lb)
075U050-54	0.0566	33	0.087	0.296	0.007	0.289	0.002	0.156	0.007	0.019	0.459	315
150U050-54	0.0566	33	0.13	0.441	0.039	0.549	0.003	0.146	0.039	0.052	1.23	840
200U050-54	0.0566	33	0.158	0.537	0.08	0.711	0.003	0.137	0.08	0.08	1.883	1190
250U050-54	0.0566	33	0.186	0.633	0.14	0.868	0.003	0.13	0.14	0.112	2.648	1540



U-CHANNEL ALLOWABLE CEILING SPANS (L/360)																					
Member	Spans	4 psf					6 psf					13 psf					15 psf				
		Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
		24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
075U050-54	Single	3' 5"	3' 0"	2' 9"	2' 6"	2' 4"	3' 0"	2' 7"	2' 4"	2' 2"	2' 1"	2' 4"	2' 0"	1' 10"	1' 8"	1' 7"	2' 2"	1' 11"	1' 9"	1' 7"	1' 6"
	Multiple	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	3' 8"	3' 2"	2' 11"	2' 8"	2' 7"	2' 10"	2' 6"	2' 3"	2' 1"	1' 11"	2' 8"	2' 4"	2' 2"	2' 0"	1' 9"
150U050-54	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 4"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
	Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
	Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

U-CHANNEL ALLOWABLE CEILING SPANS (L/240)																					
Member	Spans	4 psf					6 psf					13 psf					15 psf				
		Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
		24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
075U050-54	Single	3' 11"	3' 5"	3' 1"	2' 11"	2' 9"	3' 5"	3' 0"	2' 9"	2' 6"	2' 4"	2' 8"	2' 4"	2' 1"	1' 11"	1' 9"	2' 6"	2' 2"	2' 0"	1' 10"	1' 8"
	Multiple	4' 10"	4' 2"	3' 10"	3' 7"	3' 4"	4' 2"	3' 8"	3' 4"	3' 1"	2' 10"	3' 3"	2' 9"	2' 4"	2' 1"	1' 11"	3' 1"	2' 7"	2' 2"	2' 0"	1' 9"
150U050-54	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 4"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
	Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
	Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

U-CHANNEL ALLOWABLE CEILING SPANS (L/120)																					
Member	Spans	4 psf					6 psf					13 psf					15 psf				
		Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.					Channel Spacing (in) o.c.				
		24	36	48	60	72	24	36	48	60	72	24	36	48	60	72	24	36	48	60	72
075U050-54	Single	4' 10"	4' 1"	3' 7"	3' 3"	3' 0"	4' 1"	3' 5"	3' 0"	2' 9"	2' 6"	2' 11"	2' 5"	2' 2"	1' 11"	1' 9"	2' 9"	2' 4"	2' 0"	1' 10"	1' 8"
	Multiple	5' 5"	4' 6"	4' 2"	3' 10"	3' 5"	4' 6"	3' 11"	3' 5"	3' 2"	2' 11"	3' 5"	2' 9"	2' 4"	2' 1"	1' 11"	3' 1"	2' 7"	2' 2"	2' 0"	1' 9"
150U050-54	Single	5' 6"	4' 10"	4' 5"	4' 1"	3' 10"	4' 10"	4' 3"	3' 10"	3' 7"	3' 5"	3' 9"	3' 4"	3' 0"	2' 9"	2' 7"	3' 7"	3' 2"	2' 10"	2' 7"	2' 5"
	Multiple	7' 1"	6' 2"	5' 8"	5' 3"	4' 11"	6' 2"	5' 5"	4' 11"	4' 7"	4' 4"	4' 10"	4' 2"	3' 9"	3' 4"	3' 0"	4' 7"	4' 0"	3' 6"	3' 1"	2' 9"
200U050-54	Single	5' 10"	5' 1"	4' 8"	4' 4"	4' 1"	5' 1"	4' 6"	4' 1"	3' 10"	3' 7"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"	3' 10"	3' 4"	3' 1"	2' 10"	2' 8"
	Multiple	7' 5"	6' 6"	5' 11"	5' 6"	5' 2"	6' 6"	5' 8"	5' 2"	4' 10"	4' 7"	5' 1"	4' 5"	4' 0"	3' 9"	3' 6"	4' 10"	4' 3"	3' 10"	3' 7"	3' 2"
250U050-54	Single	6' 1"	5' 4"	4' 10"	4' 6"	4' 3"	5' 4"	4' 8"	4' 3"	4' 0"	3' 9"	4' 2"	3' 8"	3' 4"	3' 1"	2' 11"	4' 0"	3' 6"	3' 2"	3' 0"	2' 10"
	Multiple	7' 9"	6' 9"	6' 2"	5' 9"	5' 5"	6' 9"	5' 11"	5' 5"	5' 0"	4' 9"	5' 3"	4' 7"	4' 3"	3' 11"	3' 9"	5' 0"	4' 5"	4' 0"	3' 9"	3' 7"

WE TREAT YOUR DEADLINE
LIKE OUR OWN.

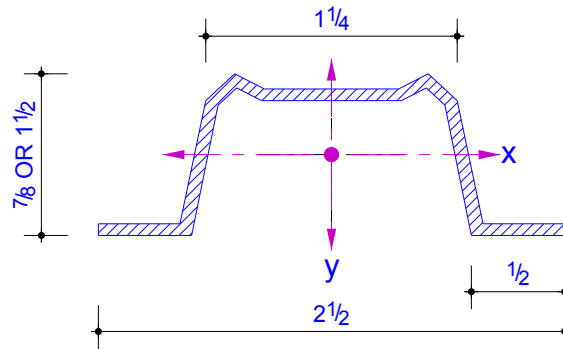




HAT FURRING CHANNEL SECTION PROPERTIES

HAT FURRING (F) CHANNEL SECTION PROPERTIES

HAT FURRING (F) CHANNEL SECTION PROPERTIES												
Section	Design Thickness	Yield Strength	Gross Properties						Effective Properties			
	(in)	(ksi)	Area (in ²)	Weight (lb/Ft)	I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	Ma (in-k)	Va (lb)
087 F125-18	0.0188	33	0.072	0.244	0.009	0.354	0.035	0.698	0.008	0.016	26.61	255
087 F125-27	0.0283	33	0.107	0.365	0.013	0.351	0.051	0.693	0.013	0.027	45.2	381
087 F125-30	0.0312	33	0.118	0.401	0.014	0.35	0.056	0.691	0.014	0.031	50.98	420
087 F125-33	0.0346	33	0.13	0.443	0.016	0.349	0.062	0.689	0.016	0.034	56.23	464
087 F125-43	0.0451	33	0.168	0.572	0.02	0.345	0.079	0.684	0.02	0.043	71	599
150 F125-18	0.0188	33	0.095	0.324	0.031	0.572	0.052	0.742	0.029	0.034	56.73	261
150 F125-27	0.0283	33	0.143	0.485	0.046	0.569	0.077	0.737	0.046	0.057	94.22	390
150 F125-30	0.0312	33	0.157	0.534	0.051	0.568	0.085	0.735	0.05	0.064	105.92	429
150 F125-33	0.0346	33	0.174	0.59	0.056	0.566	0.093	0.733	0.056	0.071	117.31	474
150 F125-43	0.0451	33	0.225	0.764	0.071	0.563	0.119	0.728	0.071	0.091	149.7	613



HAT FURRING (F) CHANNEL ALLOWABLE CEILING SPANS (L/360)											
Member	Yield Strength	Spans	4 psF			6 psF			13 psF		
			Spacing (in) o.c.			Spacing (in) o.c.			Spacing (in) o.c.		
	(ksi)		12	16	24	12	16	24	12	16	24
087 F125-18	33	Single	4' 5"	4' 0"	3' 6"	3' 10"	3' 6"	3' 1"	3' 0"	2' 9"	2' 5"
		Multiple	5' 6"	5' 0"	4' 4"	4' 9"	4' 4"	3' 10"	3' 8"	3' 4"	2' 10"
087 F125-27	33	Single	5' 3"	4' 9"	4' 2"	4' 7"	4' 2"	3' 8"	3' 6"	3' 3"	2' 10"
		Multiple	6' 6"	5' 11"	5' 2"	5' 8"	5' 2"	4' 6"	4' 4"	4' 0"	3' 6"
087 F125-30	33	Single	5' 5"	4' 11"	4' 3"	4' 9"	4' 3"	3' 9"	3' 8"	3' 4"	2' 11"
		Multiple	6' 8"	6' 1"	5' 3"	5' 10"	5' 3"	4' 7"	4' 6"	4' 1"	3' 7"
087 F125-33	33	Single	5' 7"	5' 1"	4' 5"	4' 10"	4' 5"	3' 10"	3' 9"	3' 5"	3' 0"
		Multiple	6' 11"	6' 3"	5' 6"	6' 0"	5' 6"	4' 9"	4' 8"	4' 3"	3' 8"
087 F125-43	33	Single	6' 0"	5' 6"	4' 9"	5' 3"	4' 9"	4' 2"	4' 1"	3' 8"	3' 3"
		Multiple	7' 5"	6' 9"	5' 11"	6' 6"	5' 11"	5' 2"	5' 0"	4' 7"	4' 0"
150 F125-18	33	Single	6' 10"	6' 2"	5' 5"	5' 11"	5' 5"	4' 9"	4' 7"	4' 2"	3' 8"
		Multiple	8' 5"	7' 8"	6' 8"	7' 4"	6' 8"	5' 10"	5' 8"	4' 9"	3' 8"
150 F125-27	33	Single	7' 11"	7' 3"	6' 4"	6' 11"	6' 4"	5' 6"	5' 4"	4' 11"	4' 3"
		Multiple	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	6' 8"	6' 0"	5' 3"
150 F125-30	33	Single	8' 2"	7' 5"	6' 6"	7' 2"	6' 6"	5' 8"	5' 6"	5' 0"	4' 5"
		Multiple	10' 1"	9' 2"	8' 0"	8' 10"	8' 0"	7' 0"	6' 10"	6' 3"	5' 5"
150 F125-33	33	Single	8' 6"	7' 8"	6' 9"	7' 5"	6' 9"	5' 10"	5' 9"	5' 2"	4' 6"
		Multiple	10' 6"	9' 6"	8' 4"	9' 2"	8' 4"	7' 3"	7' 1"	6' 5"	5' 7"
150 F125-43	33	Single	9' 2"	8' 4"	7' 4"	8' 0"	7' 4"	6' 4"	6' 2"	5' 8"	4' 11"
		Multiple	11' 4"	10' 4"	9' 0"	9' 11"	9' 0"	7' 11"	7' 8"	7' 0"	6' 1"

HAT FURRING (F) CHANNEL ALLOWABLE CEILING SPANS (L/240)											
Member	Yield	Spans	4 psF			6 psF			13 psF		
			Strength			Spacing (in) o.c.			Spacing (in) o.c.		
	(ksi)		12	16	24	12	16	24	12	16	24
087 F125-18	33	Single	5' 1"	4' 7"	4' 0"	4' 5"	4' 0"	3' 6"	3' 5"	3' 1"	2' 9"
		Multiple	6' 3"	5' 8"	5' 0"	5' 6"	5' 0"	4' 3"	4' 1"	3' 6"	2' 10"
087 F125-27	33	Single	6' 0"	5' 5"	4' 9"	5' 3"	4' 9"	4' 2"	4' 1"	3' 8"	3' 3"
		Multiple	7' 5"	6' 9"	5' 11"	6' 6"	5' 11"	5' 2"	5' 0"	4' 7"	3' 9"
087 F125-30	33	Single	6' 2"	5' 7"	4' 11"	5' 5"	4' 11"	4' 3"	4' 2"	3' 9"	3' 4"
		Multiple	7' 8"	6' 11"	6' 1"	6' 8"	6' 1"	5' 3"	5' 2"	4' 8"	4' 0"

HAT FURRING (F) CHANNEL ALLOWABLE CEILING SPANS (L/240)											
Member	Yield	Spans	4 psF			6 psF			13 psF		
			Strength			Spacing (in) o.c.			Spacing (in) o.c.		
	(ksi)		12	16	24	12	16	24	12	16	24
087 F125-33	33	Single	6' 5"	5' 10"	5' 1"	5' 7"	5' 1"	4' 5"	4' 4"	3' 11"	3' 5"
		Multiple	7' 11"	7' 2"	6' 3"	6' 11"	6' 3"	5' 6"	5' 4"	4' 10"	4' 2"
087 F125-43	33	Single	6' 11"	6' 3"	5' 6"	6' 0"	5' 6"	4' 9"	4' 8"	4' 3"	3' 8"
		Multiple	8' 6"	7' 9"	6' 9"	7' 5"	6' 9"	5' 11"	5' 9"	5' 3"	4' 7"
150 F125-18	33	Single	7' 10"	7' 1"	6' 2"	6' 10"	6' 2"	5' 5"	5' 3"	4' 9"	4' 2"
		Multiple	9' 8"	8' 9"	7' 6"	8' 5"	7' 6"	6' 2"	5' 10"	4' 9"	3' 8"
150 F125-27	33	Single	9' 1"	8' 3"	7' 3"	7' 11"	7' 3"	6' 4"	6' 2"	5' 7"	4' 11"
		Multiple	11' 3"	10' 3"	8' 11"	9' 10"	8' 11"	7' 10"	7' 7"	6' 7"	5' 5"
150 F125-30	33	Single	9' 5"	8' 6"	7' 5"	8' 2"	7' 5"	6' 6"	6' 4"	5' 9"	5' 0"
		Multiple	11' 7"	10' 6"	9' 2"	10' 1"	9' 2"	8' 0"	7' 10"	7' 0"	5' 9"
150 F125-33	33	Single	9' 8"	8' 10"	7' 8"	8' 6"	7' 8"	6' 9"	6' 7"	5' 11"	5' 2"
		Multiple	12' 0"	10' 11"	9' 6"	10' 6"	9' 6"	8' 4"	8' 1"	7' 4"	6' 0"
150 F125-43	33	Single	10' 6"	9' 7"	8' 4"	9' 2"	8' 4"	7' 4"	7' 1"	6' 5"	5' 8"
		Multiple	13' 0"	11' 10"	10' 4"	11' 4"	10' 4"	9' 0"	8' 9"	8' 0"	6' 9"

HAT FURRING (F) CHANNEL ALLOWABLE CEILING SPANS (L/120)											
Member	Yield	Spans	4 psF			6 psF			13 psF		
			Strength			Spacing (in) o.c.			Spacing (in) o.c.		
	(ksi)		12	16	24	12	16	24	12	16	24
087 F125-18	33	Single	6' 5"	5' 10"	5' 1"	5' 7"	5' 1"	4' 5"	4' 4"	3' 11"	3' 5"
		Multiple	7' 4"	6' 4"	5' 1"	5' 11"	5' 2"	4' 2"	4' 1"	3' 6"	2' 10"
087 F125-27	33	Single	7' 7"	6' 10"	6' 0"	6' 7"	6' 0"	5' 3"	5' 1"	4' 8"	4' 1"
		Multiple	9' 4"	8' 3"	6' 8"	7' 9"	6' 9"	5' 5"	5' 3"	4' 7"	3' 8"
087 F125-30	33	Single	7' 9"	7' 1"	6' 2"	6' 10"	6' 2"	5' 5"	5' 3"	4' 9"	4' 2"
		Multiple	9' 7"	8' 9"	7' 1"	8' 3"	7' 2"	5' 9"	5' 7"	4' 10"	3' 11"
087 F125-33	33	Single	8' 0"	7' 4"	6' 5"	7' 0"	6' 5"	5' 7"	5' 5"	4' 11"	4' 4"
		Multiple	9' 11"	9' 0"	7' 5"	8' 8"	7' 6"	6' 1"	5' 11"	5' 1"	4' 1"
087 F125-43	33	Single	8' 8"	7' 11"	6' 11"	7' 7"	6' 11"	6' 0"	5' 10"	5' 4"	4' 8"
		Multiple	10' 9"	9' 9"	8' 5"	9' 5"	8' 5"	6' 10"	6' 7"	5' 9"	4' 8"
150 F125-18	33	Single	9' 10"	8' 11"	7' 10"	8' 7"	7' 10"	6' 10"	6' 8"	6' 0"	5' 3"
		Multiple	10' 8"	9' 3"	7' 6"	8' 8"	7' 6"	6' 1"	5' 10"	4' 5"	2' 11"
150 F125-27	33	Single	11' 6"	10' 5"	9' 1"	10' 0"	9' 1"	7' 11"	7' 9"	7' 0"	6' 2"
		Multiple	13' 9"	11' 11"	9' 8"	11' 2"	9' 8"	7' 11"	7' 7"	6' 7"	5' 4"
150 F125-30	33	Single	11' 10"	10' 9"	9' 5"	10' 4"	9' 5"	8' 2"	8' 0"	7' 3"	6' 4"
		Multiple	14' 7"	12' 7"	10' 3"	11' 11"	10' 3"	8' 4"	8' 1"	7' 0"	5' 8"
150 F125-33	33	Single	12' 3"	11' 1"	9' 8"	10' 8"	9' 8"	8' 6"	8' 3"	7' 6"	6' 7"
		Multiple	15' 1"	13' 3"	10' 9"	12' 6"	10' 10"	8' 10"	8' 6"	7' 4"	6' 0"
150 F125-43	33	Single	13' 3"	12' 1"	10' 6"	11' 7"	10' 6"	9' 2"	8' 11"	8' 2"	7' 1"
		Multiple	16' 5"	14' 11"	12' 2"	14' 2"	12' 3"	9' 11"	9' 7"	8' 4"	6' 9"

BEST-IN-CLASS
PRODUCTS AND THE
SERVICE TO MATCH.





SCREWS & WELDS

SCREW TABLE NOTES

1. Allowable screw connection capacities are based on Section E4 of the AISI S100-12.
2. When connecting materials of different steel thickness or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
3. A nominal shear stress of 42.85ksi and a nominal tension stress of 40.84ksi was used for calculations.
4. Screw capacities are based on Allowable Strength Design (ASD) and include safety factor of 3.0.
5. When multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).
6. Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw. At free edges, edge distance must be verified as per Section E4.2 of AISI S100-12.
7. Tension capacity is based on the lesser of pullout capacity in sheet closest to screw tip, or pullover capacity for sheet closest to screw head (using head diameter).
8. For all tension values calculated in screw table, pullover values have been reduced by 50% assuming eccentrically loaded connections that produce a non-uniform pullover force of the fastener.
9. Screw capacities are governed by a conservative estimate of screw capacity, not by sheet steel failure.

ALLOWABLE SCREW CONNECTION CAPACITY (LBS PER SCREW)												
Thickness (mils)	Yield Strength (Fy) (ksi)	Tensile Strength (Fu) (ksi)	# 6 Screw (0.138" Dia, 1/4" Head)		# 8 Screw (0.164" Dia, 5/16" Head)		# 10 Screw (0.190" Dia, 0.340" Head)		# 12 Screw (0.216" Dia, 0.340" Head)		1/4" Screw (0.250" Dia, 0.409" Head)	
			Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension
18	33	33	44	24	48	29	52	33	55	38	60	44
27	33	33	82	37	89	43	96	50	102	57	110	66
30	33	33	95	40	103	48	111	55	118	63	127	73
33	33	45	151	61	164	72	177	84	188	95	203	110
43	33	45	214	79	244	94	263	109	280	124	302	144
54	33	45	214	100	303	118	370	137	394	156	424	180
54	50	65	214	123	303	171	406	198	525	225	613	261
68	33	45	214	123	303	149	406	173	525	196	600	227
68	50	65	214	123	303	173	406	232	525	284	704	328
97	33	45	214	123	303	173	406	232	525	280	704	324
97	50	65	214	123	303	173	406	232	525	300	704	403
118	33	45	214	123	303	173	406	232	525	300	704	396
118	50	65	214	123	303	173	406	232	525	300	704	403

WELD TABLE NOTES

1. Allowable weld capacities are based on Section E2.5 (for fillet welds) and E2.6 (for flare groove welds) of the AISI S100-12.
2. When connecting materials of different steel thicknesses or tensile strengths, use the lowest values.
3. Weld capacities are based on Allowable Strength Design (ASD) and include appropriate safety factors.
4. Weld capacities are based on either 3/32" or 1/8" diameter E60 or E70 Electrodes.
5. Parallel capacity is considered to be loading in the direction of the weld.
6. For flare groove welds, the effective throat of weld is conservatively assumed to be less than 2t.

ALLOWABLE WELD CAPACITY (lbs) FOR 1-INCH OF WELD							
Thickness (mils)	Design Thickness (in)	Yield Strength (F _y) (ksi)	Tensile Strength (F _u) (ksi)	Fillet Welds		Flare Groove Welds	
				Parallel	Perpendicular	Parallel	Perpendicular
43	0.0451	33	45	619	864	544	663
54	0.0566	33	45	822	1084	682	832
54	0.0566	50	65	1188	1566	985	1202
68	0.0713	33	45	1082	1365	859	1048
68	0.0713	50	65	1563	1972	1241	1514
97	0.1017	33	45	1618	1947	1226	1495
97	0.1017	50	65	2337	2813	1771	2159
118	0.1242	33	45	Note-1	Note-1	Note-2	Note-2
118	0.1242	50	65	Note-1	Note-1	Note-2	Note-2

1. Note-1: For fillet welds, AISI S100 Equation E2.5-4 must be checked for 118 mil material, or whenever the thickness of thinnest part is greater than 0.10 inch.
2. Note-2: For flare groove welds, AISI S100 Equation E2.6-4 must be checked for 118 mil material, or whenever the thickness of thinnest part is greater than 0.10 inch.



OUR CUSTOMERS
ARE FAMILY.



PERSONAL CONNECTION
IS AT THE CENTER
OF EVERYTHING WE DO.



6001 Bordentown Ave
Sayreville, NJ 08872

orders@oegusa.com • 732.667.3636