



**STRONGER
THAN STEEL.™**

MEMBER PROPERTIES & SPANS • CURTAIN WALLS • LOAD-BEARING WALLS • JOISTS • FRAMING DETAILS

IN CONFORMANCE WITH: AISI S100-12 North American Specification (NASPEC) • International Building Code (IBC) 2015

ClarkDietrich
THE FUTURE OF STEEL FRAMING
TAKES FORM

The properties of cold-formed steel are impressive,

and the applications are many. But when you add in the product scope, design innovations and technical expertise that a company like ClarkDietrich alone can provide, the opportunities before you take on an entirely new dimension.

Due to our long history and core competency in steel framing, we can provide an unparalleled level of in-depth knowledge—not only to help you meet the codes, but to surpass expectations for cost-effective, high-performance solutions in today’s commercial and residential buildings.

This publication is specifically designed to help you as a contractor, engineer or architect find the right steel framing components for your projects. What’s more, we’ve worked to make this the industry’s most comprehensive technical support document for cold-formed steel framing.

It’s exactly the kind of resource you’d expect from a partner like ClarkDietrich. Yes, we’re known as a manufacturer of extensively tested, code-compliant steel framing products. But we also offer products that perform as a system, we support a range of efforts for smarter installation and design, and we provide the expertise of a versatile engineering services team—and all on a nationwide scale.

In the following pages, you will find ample information, data and notes to reliably guide your decisions. But please feel free to contact us at any time for additional clarity or support.

Need Product Submittals?

Use **SubmittalPro®** at clarkdietrich.com.

While this document is quite comprehensive, it does not completely cover our vast and growing lineup of products. You will find more complete information on each member selection, as well as nonstandard products, at clarkdietrich.com.

Need help with product selection, ordering, scheduling, delivery, or anything else?

Call us at **800-543-7140**, or on the West Coast at **800-365-5284**.

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How to identify our products.

ClarkDietrich has adopted standard nomenclature established by the American Iron and Steel Institute (AISI) for identifying each of its products. Coding of each member consists of four parts, in this order:

- A number which identifies the web depth of the member to two decimal places. 600 = 6.00," 1000 = 10.00," 550 = 5.50," 362 = 3.625," etc.
- A letter that tells you the type of member, such as S = Stud/joist, T = Track, U = U-channel, and F = Furring channel.
- A number that defines the flange dimension in inches to two decimal places. 162 = 1.625," 200 = 2.00," 125 = 1.25," etc.
- A number following a hyphen that denotes the minimum delivered thickness in mils (33mils = 33/1000 inches which is approximately 0.0329"). Minimum delivered thickness is 95% of design thickness.

Product availability.

Most products manufactured by ClarkDietrich are readily available in all markets, but there can be exceptions. Please contact your ClarkDietrich Sales Representative to make sure the product you need is available in your market area.

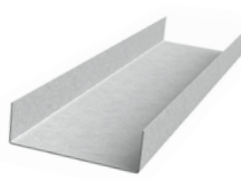
Protective coatings.

Structural framing products are available with a variety of protective coatings that meet the CP60 coating protection level requirements of AISI S200 and ASTM C955. These coatings may include G60, A60, AZ50 or GF30, all of which satisfy the above referenced standards. G90 coatings are an enhanced option that can be requested for highly corrosive environments. ClarkDietrich can supply a specific or enhanced coating to meet specific project requirements when requested. The buyer is solely responsible to assure that product is ordered to properly satisfy the applicable code or specification.

Example: 362S162-43 (33ksi, CP60) punched



S = Structural stud or joist



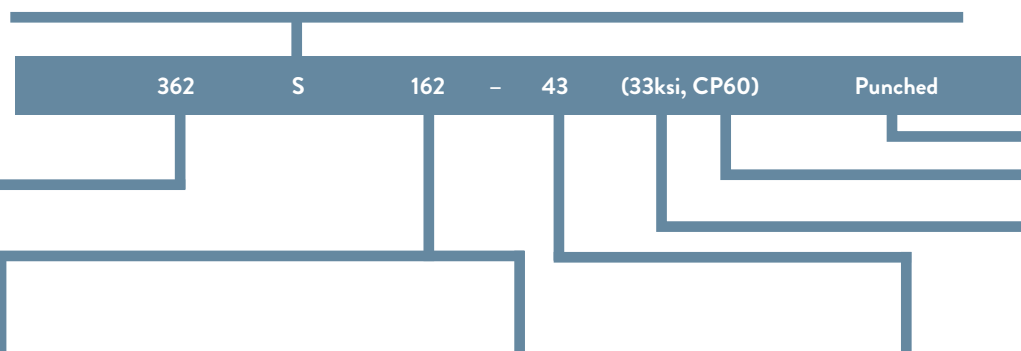
T = Structural track



U = CRC or U-channel



F = Furring channel



Punching

Punched studs or joists will be supplied unless the customer indicates unpunched material is required at time of order. All track and channels are unpunched.

Protective Coating

Structural framing CP60 (G90 available)

Yield Strength (Fy)

33ksi or 50ksi steel (See note 2 below)

ClarkDietrich structural member depths, flanges & available thickness

Member depths	Flange widths range	Mils range	Gauge range
(250) 2-1/2"	1-3/8", 1-5/8", 2" & 2-1/2"	33-68	20-14 ga
(350) 3-1/2"	1-3/8", 1-5/8", 2" & 2-1/2"	33-68	20-14 ga
(362) 3-5/8"	1-3/8", 1-5/8", 2" & 2-1/2"	33-97	20-12 ga
(400) 4"	1-3/8", 1-5/8", 2" & 2-1/2"	33-97	20-12 ga
(550) 5-1/2"	1-5/8", 2" & 2-1/2"	33-97	20-12 ga
(600) 6"	1-3/8", 1-5/8", 2", 2-1/2" & 3"	33-97	20-12 ga
(800) 8"	1-3/8", 1-5/8", 2", 2-1/2" & 3"	33-97	20-12 ga
(925) 9-1/4"	1-5/8", 2" & 2-1/2"	43-97	18-12 ga
(1000) 10"	1-5/8", 2", 2-1/2" & 3"	43-97	18-12 ga
(1200) 12"	1-5/8", 2", 2-1/2" & 3"	54-97	16-12 ga
(1400) 14"	1-5/8", 2", 2-1/2" & 3"	54-97	16-12 ga

ClarkDietrich return lip dimensions

Flange width	Return lip	Member depths
137 (1-3/8")	3/8"	3-5/8"-8"
162 (1-5/8")	1/2"	2-1/2"-14"
200 (2")	5/8"	3-5/8"-14"
250 (2-1/2")	5/8"	3-5/8"-14"
300 (3")	5/8"	6"-14"

Old stud/track designations

Old designation	Type	Flange/leg
CWN	Stud	1-3/8"
CSJ	Stud	1-5/8"
CSW	Stud	2"
CSE	Stud	2-1/2"
CSS	Stud	3"
TSB	Track	1-1/4"
TSC	Track	2"
TSE	Track	3"

ClarkDietrich thickness identification and color coding

Designation thickness (mils)	Thickness (gauge)	Design thickness (in)	Minimum thickness ¹ (in)	Color code
33	20	0.0346	0.0329	White
43	18	0.0451	0.0428	Yellow
54	16	0.0566	0.0538	Green
68	14	0.0713	0.0677	Orange
97	12	0.1017	0.0966	Red

¹ Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the jobsite based on section A2.4 of AISI S100-12.

² 33mil (20ga) and 43mil (18ga) framing products are produced with 33ksi steel. 54mil (16ga), 68mil (14ga) and 97mil (12ga) products are produced with 50ksi steel unless otherwise noted.

ClarkDietrich is a proud member of the Steel Framing Industry Association (SFIA).

Support tools

Technical Service.

Technical Service is the most important way we serve our present and prospective customers. After all, your experience with our products will only be a good one if you are satisfied that the material is right for the job and that it is being installed correctly. That's why we have provided four ways to make sure you can get the Technical Service you need.

Web support—www.clarkdietrich.com contains information on the company, its products and a wealth of other information related to the steel framing industry. This website also provides you with more detailed information about all of the company's products, including load and limiting heights tables for member sizes and configurations not contained in this printed manual. Please visit this site to familiarize yourself with what we have to offer.

Engineering software—To make sure you design structures successfully, we provide engineering software FREE to customers, engineers, architects and students. This state-of-the-art and user-friendly software helps configure exterior curtain wall framing for wind loads, load-bearing framing for combined loads, joists for required spans and anticipated load configurations, etc. A download is available from our website.

ClarkDietrich Engineering Services—A full-service design and engineering firm that provides certified engineering shop drawing packages. ClarkDietrich Engineering Services is licensed throughout the United States and can be reached by calling 877-832-3206.

ClarkDietrich Technical Services—For general technical service on products, member sizing, industry standards, framing details or information on engineering software, please call technical services at 888-437-3244.

Architectural specification review.

Over time, project specifications can become outdated. For suggestions on how to improve the performance of your specifications, contact us about a complimentary review at 330-974-0835.

Catalog notes

Standards and specifications.

All members comply with ASTM standards shown in the Material Certification at the back of this catalog. All structural properties are developed in accordance with the American Iron and Steel Institute's "Specification for the Design of Cold-Formed Steel Structural Members, S100-12."

General notes.

The data contained in this catalog is intended to be used as a general guideline only and does not replace the judgment and designs of a qualified architect and/or engineer.

Product, application renderings and photographs are provided as a tool to show the general intent of the framing or finishing application only. These renderings or photographs may or may not be applicable to a specific project. They do not replace or supercede the architect or engineer of record, ASTM guidelines, U.S. national or local building codes, or approved industry standards.

ClarkDietrich reserves the right to change or modify the information contained in this catalog without prior notice or obligation. The information in this catalog supercedes all previously published data. Products and systems may be improved and/or changed after this catalog is printed.

All products described here may not be available in all geographic markets. Consult your local sales office for information.

Warranty.

ClarkDietrich warrants that all products are free from defect at time of shipment, and are manufactured in accordance with company and/or industry standards as applicable.

NOTICE: ClarkDietrich shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Overview

Steel framing is engineered to take advantage of the physical properties of formed steel to provide strength where needed and as needed in the construction of buildings. This section provides the basic information needed by architects and engineers to make sure the member called for in the plans will meet the criteria required by the structure.

Structural framing general notes.

- 1 Physical properties have been calculated in conformance with AISI S100-12.
- 2 Effective properties of structural framing incorporate the strength increase from the cold work of forming as applicable per NASPEC Section A7.2.

- 3 Gross properties are based on the cross-section away from web punchouts. Effective properties are based on knockout/punched sections.
- 4 The effective moment of inertia for deflection is calculated at a stress which results in a section modulus, such that the stress times the section modulus at that stress is equal to the allowable moment. AISI S100-12 Procedure 1 for serviceability determination has been used.

LEED® Services

BUILD GREEN with ClarkDietrich Building Systems

ClarkDietrich Building Systems is an active member of the U.S. Green Building Council and is committed to supplying quality products that are environmentally responsible. We are continually working to develop greener building products and sustainable business practices. ClarkDietrich steel framing helps contribute points toward LEED® certification. For more details contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED.

Symbols and terms.

The following tables are provided to help architects and engineers design structures that withstand various forces. Those forces include vertical loads such as weight from overhead, lateral loads such as wind, other applied pressure or a combination of those. Such natural forces can result in deflection and/or twisting of cold-formed steel framing members.

Key among these tables are the physical and structural properties tables in this next section. The tables provide typical data required to make determinations about the suitability of materials for certain intended purposes. The data is identified by commonly used engineering symbols and terms. This legend will help you to understand the symbols and terms used here.

- $I_x = (\text{in}^4)$: Moment of inertia about the X-X axis, used for DEFLECTION
- $S_x = (\text{in}^3)$: Section modulus about the X-X axis, used for STRESS & LOADS
- $R_x = (\text{in})$: Radius of gyration about the X-X axis
- $I_y = (\text{in}^4)$: Moment of inertia about the Y-Y axis
- $R_y = (\text{in})$: Radius of gyration about the Y-Y axis, used for AXIAL LOADS

Wind load (lbs/sq ft): Forces produced by wind, either direct wind (positive pressure), a vacuum (negative pressure) or those generated by wind whipping around the corners of a building. These forces are usually calculated according to the prevailing building code. Wind forces are referred to as transverse loads, are perpendicular to the wall, and cause the wall to deflect.

Axial load (lbs): A vertical force produced by overhead loads, such as floors and roof. Floors and roofs contain both dead loads and live loads, which combine to make up the vertical loading.

Header: A joist or beam that spans two or more studs, accepts overhead loads from floors and roof and distributes the overhead load to the jamb studs supporting the header.

Deflection: The amount of movement of a system, usually greatest at the midpoint, caused by transverse loading.

- L/120: Length (height) of stud, in inches, divided by 120 (short interior wall studs)
- L/240: Length (height) of stud, in inches, divided by 240 (interior wall studs, exterior siding or EIFS)
- L/360: Length (height) of stud, in inches, divided by 360 (exterior stucco)
- L/600: Length (height) of stud, in inches, divided by 600 (exterior brick)
- L/720: Length (height) of stud, in inches, divided by 720 (exterior brick)

Limited deflection: A design criteria which specifies the maximum allowable deflection for a system (L/240, L/360, L/600, etc.).

General table notes.

Unless otherwise noted, properties are computed according to the AISI S100-12.

S_{xe} and M_{xa} for studs are based on the perforated web properties for the standard ClarkDietrich oval knockout. For tracks, S_{xe} and M_{xa} are based on a solid section. I_{xe} is based on the solid section value for both studs and track.

Overview

Wall stud and floor joist section properties.

ClarkDietrich cold-formed C-studs, produced to ASTM C955 standards, for axial load-bearing and curtain wall framing are prepunched with knockouts at regular intervals—specifically designed to allow for rapid installation of pipes, electrical conduit and wall bridging.

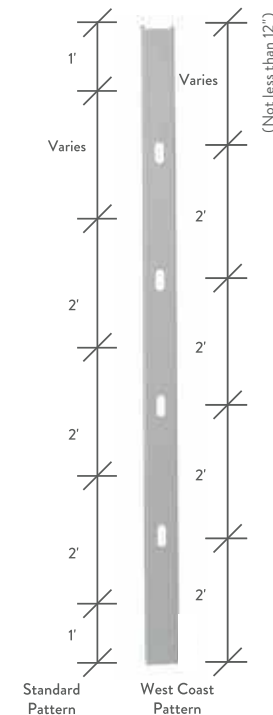
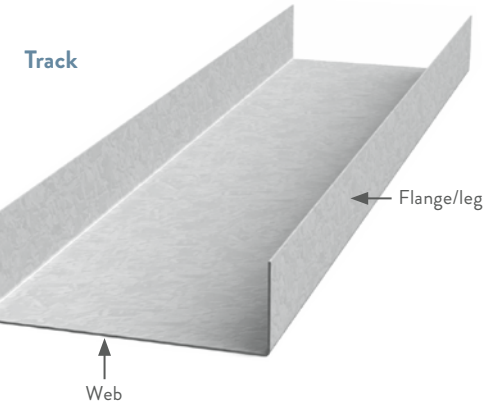
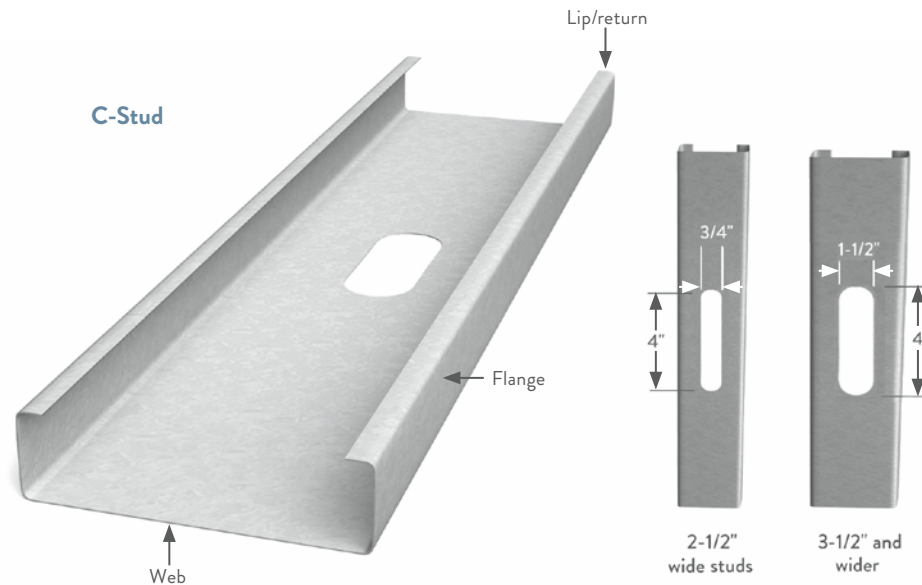
Punchouts/Knockouts.

Allows for easy installation of wiring, plumbing and bridging. Standard knockout sizing is 1-1/2" x 4" in members 3-1/2" and wider. Members smaller than 3-1/2" are punched with a 3/4" x 4" wide knockout. Custom hole placement is available upon request.

Center of knockouts is punched 12" from the lead edge with additional knockouts every 24" o.c. (in the West, the first knockout is punched 24" from the lead edge).

Track section properties.

ClarkDietrich structural track is a U-shaped framing component used as top and bottom runners to secure wall studs. It is produced to ASTM C955 standards, and comes in standard 10' lengths. Structural track is also used as end-support closures for joists at exterior or foundation walls, head and sill plates of wall openings and solid blocking. Track is normally ordered in corresponding size and gauge to the wall studs. Longer leg track is used for deflection conditions or to accommodate uneven or inconsistent floor or ceiling conditions. ClarkDietrich also offers custom sizes, lengths and coatings.



Complies with AISI S100-12 • IBC 2015

2-1/2" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
2-1/2" Stud	250S137-33	0.0346	33	0.197	0.671	0.203	0.163	1.02	0.0524	0.515	0.203	0.158	3.11	3.09	0.079	0.076	-1.14	0.677	1.61	0.499	35.6	
	250S137-43	0.0451	33	0.255	0.868	0.261	0.208	1.01	0.0665	0.511	0.261	0.205	4.53*	4.60	0.173	0.096	-1.13	0.670	1.60	0.501	33.6	
	250S137-54	0.0566	50	0.316	1.07	0.318	0.255	1.00	0.0802	0.504	0.318	0.244	8.22*	8.34	0.337	0.115	-1.11	0.663	1.58	0.504	27.1	
	250S137-68	0.0713	50	0.390	1.33	0.386	0.309	0.99	0.0956	0.495	0.386	0.308	10.7*	10.7	0.661	0.138	-1.10	0.653	1.56	0.507	26.8	
	250S162-33	0.0346	33	0.223	0.759	0.235	0.188	1.03	0.0870	0.624	0.235	0.180	3.55	3.56	0.089	0.146	-1.47	0.859	1.90	0.401	44.1	
	250S162-43	0.0451	33	0.289	0.984	0.302	0.242	1.02	0.111	0.620	0.302	0.240	5.22*	5.25	0.196	0.184	-1.46	0.852	1.88	0.402	42.1	
	250S162-54	0.0566	50	0.358	1.22	0.370	0.296	1.02	0.135	0.613	0.370	0.284	9.42*	9.46	0.383	0.223	-1.44	0.845	1.87	0.404	33.9	
	250S162-68	0.0713	50	0.443	1.51	0.450	0.360	1.01	0.162	0.605	0.450	0.357	12.1*	12.2	0.752	0.268	-1.42	0.835	1.85	0.405	33.7	
	250S200-33	0.0346	33	0.258	0.877	0.279	0.223	1.04	0.154	0.773	0.276	0.197	3.90	4.09	0.103	0.302	-1.93	1.11	2.32	0.312	56.0	
	250S200-43	0.0451	33	0.334	1.14	0.358	0.287	1.04	0.198	0.769	0.358	0.278	5.49	5.67	0.227	0.382	-1.91	1.10	2.31	0.312	53.9	
	250S200-54	0.0566	50	0.415	1.41	0.440	0.352	1.03	0.241	0.763	0.440	0.321	9.61	10.1	0.443	0.464	-1.90	1.09	2.29	0.313	43.6	
	250S200-68	0.0713	50	0.515	1.75	0.538	0.430	1.02	0.293	0.755	0.538	0.417	14.0*	14.3	0.872	0.561	-1.88	1.08	2.27	0.313	45.8	
250S250-43	0.0451	33	0.379	1.29	0.426	0.341	1.06	0.336	0.941	0.426	0.297	5.87	6.24	0.257	0.638	-2.40	1.36	2.79	0.258	64.6		
250S250-54	0.0566	50	0.471	1.60	0.524	0.419	1.05	0.412	0.935	0.521	0.341	10.2	11.0	0.503	0.778	-2.39	1.35	2.77	0.258	52.3		
250S250-68	0.0713	50	0.586	1.99	0.643	0.514	1.05	0.503	0.926	0.643	0.446	13.4	14.6	0.993	0.944	-2.37	1.34	2.75	0.258	54.5		
2-1/2" Track	250T125-33	0.0346	33	0.173	0.588	0.192	0.145	1.05	0.027	0.397	0.166	0.103	2.03	—	0.069	0.033	-0.760	0.456	1.36	0.687	—	
	250T125-43	0.0451	33	0.225	0.766	0.250	0.188	1.05	0.035	0.395	0.231	0.147	2.91	—	0.153	0.042	-0.755	0.453	1.36	0.690	—	
	250T125-54	0.0566	50	0.282	0.961	0.318	0.236	1.06	0.043	0.392	0.297	0.188	5.64	—	0.301	0.054	-0.749	0.449	1.36	0.696	—	
	250T125-68	0.0713	50	0.355	1.21	0.409	0.297	1.07	0.054	0.389	0.403	0.262	7.85	—	0.602	0.069	-0.740	0.444	1.36	0.704	—	
	250T150-33	0.0346	33	0.190	0.647	0.221	0.167	1.08	0.045	0.485	0.180	0.107	2.11	—	0.076	0.054	-0.973	0.573	1.53	0.596	—	
	250T150-43	0.0451	33	0.248	0.843	0.289	0.217	1.08	0.058	0.483	0.252	0.154	3.03	—	0.168	0.070	-0.968	0.570	1.53	0.599	—	
	250T150-54	0.0566	50	0.311	1.06	0.368	0.273	1.09	0.072	0.481	0.325	0.197	5.89	—	0.332	0.089	-0.961	0.566	1.53	0.605	—	
	250T150-68	0.0713	50	0.391	1.33	0.472	0.344	1.10	0.089	0.478	0.445	0.276	8.27	—	0.663	0.114	-0.953	0.561	1.53	0.613	—	
	250T200-33	0.0346	33	0.225	0.765	0.280	0.212	1.12	0.097	0.658	0.203	0.112	2.22	—	0.090	0.118	-1.42	0.813	1.92	0.455	—	
	250T200-43	0.0451	33	0.293	1.00	0.366	0.275	1.12	0.126	0.656	0.288	0.163	3.21	—	0.198	0.153	-1.41	0.810	1.92	0.457	—	
	250T200-54	0.0566	50	0.367	1.25	0.466	0.346	1.13	0.157	0.654	0.372	0.209	6.25	—	0.392	0.195	-1.41	0.806	1.92	0.462	—	
	250T200-68	0.0713	50	0.462	1.57	0.600	0.437	1.14	0.196	0.652	0.517	0.296	8.87	—	0.783	0.251	-1.40	0.800	1.92	0.469	—	
250T300-54	0.0566	50	0.480	1.63	0.664	0.492	1.18	0.470	0.989	0.443	0.223	6.69	—	0.513	0.599	-2.33	1.29	2.79	0.302	—		
250T300-68	0.0713	50	0.605	2.06	0.856	0.623	1.19	0.589	0.987	0.626	0.320	9.57	—	1.03	0.773	-2.32	1.29	2.79	0.307	—		

¹Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming $K\phi=0$.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = $1-(Xo/Ro)^2$
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

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3-1/2" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
3-1/2" Stud	350S137-33	0.0346	33	0.232	0.789	0.442	0.252	1.38	0.0587	0.503	0.442	0.223	4.41	4.55	0.0925	0.153	-1.02	0.621	1.79	0.676	34.8	
	350S137-43	0.0451	33	0.300	1.02	0.568	0.324	1.38	0.0746	0.498	0.568	0.307	6.07	6.39	0.204	0.193	-1.00	0.615	1.77	0.679	34.7	
	350S137-54	0.0566	50	0.372	1.27	0.696	0.398	1.37	0.0900	0.492	0.696	0.366	11.0	11.4	0.398	0.233	-0.991	0.607	1.76	0.683	28.0	
	350S137-68	0.0713	50	0.461	1.57	0.849	0.485	1.36	0.107	0.483	0.849	0.472	14.1	14.5	0.782	0.280	-0.973	0.598	1.74	0.687	27.9	
	350S162-33	0.0346	33	0.258	0.877	0.508	0.291	1.40	0.0981	0.617	0.508	0.257	5.09	5.22	0.103	0.277	-1.32	0.796	2.03	0.573	42.7	
	350S162-43	0.0451	33	0.334	1.14	0.655	0.374	1.40	0.125	0.612	0.654	0.357	7.05	7.31	0.227	0.350	-1.31	0.789	2.01	0.575	42.6	
	350S162-54	0.0566	50	0.415	1.41	0.805	0.460	1.39	0.152	0.606	0.804	0.426	12.7	13.1	0.443	0.426	-1.30	0.782	2.00	0.578	34.5	
	350S162-68	0.0713	50	0.515	1.75	0.985	0.563	1.38	0.184	0.597	0.985	0.549	16.4	16.8	0.872	0.514	-1.28	0.772	1.98	0.581	34.5	
	350S200-33	0.0346	33	0.292	0.995	0.599	0.342	1.43	0.175	0.773	0.593	0.283	5.59	5.95	0.117	0.541	-1.76	1.04	2.40	0.461	53.7	
	350S200-43	0.0451	33	0.379	1.29	0.771	0.441	1.43	0.224	0.768	0.771	0.410	8.09	8.36	0.257	0.687	-1.75	1.03	2.38	0.462	53.7	
	350S200-54	0.0566	50	0.471	1.60	0.950	0.543	1.42	0.274	0.762	0.950	0.470	14.1	14.9	0.503	0.838	-1.73	1.02	2.37	0.464	43.5	
	350S200-68	0.0713	50	0.586	1.99	1.17	0.667	1.41	0.333	0.754	1.17	0.638	19.1	19.7	0.993	1.02	-1.71	1.01	2.35	0.465	43.5	
	350S250-43	0.0451	33	0.424	1.44	0.906	0.518	1.46	0.380	0.946	0.906	0.431	8.53	9.01	0.288	1.15	-2.22	1.29	2.82	0.381	64.3	
	350S250-54	0.0566	50	0.528	1.80	1.12	0.639	1.46	0.467	0.940	1.11	0.494	14.8	15.9	0.564	1.41	-2.20	1.28	2.80	0.382	52.1	
350S250-68	0.0713	50	0.657	2.24	1.38	0.787	1.45	0.570	0.931	1.38	0.661	19.8	21.3	1.11	1.72	-2.19	1.27	2.78	0.383	52.2		
3-1/2" Track	350T125-33	0.0346	33	0.207	0.706	0.405	0.222	1.40	0.0299	0.379	0.355	0.165	3.27	—	0.083	0.070	-0.668	0.414	1.59	0.824	—	
	350T125-43	0.0451	33	0.270	0.919	0.528	0.288	1.40	0.0385	0.377	0.490	0.233	4.61	—	0.183	0.090	-0.663	0.412	1.59	0.826	—	
	350T125-54	0.0566	50	0.339	1.15	0.668	0.361	1.40	0.0477	0.375	0.626	0.297	8.90	—	0.362	0.114	-0.658	0.408	1.59	0.830	—	
	350T125-68	0.0713	50	0.427	1.45	0.851	0.454	1.41	0.0591	0.372	0.839	0.407	12.2	—	0.723	0.144	-0.650	0.403	1.60	0.835	—	
	350T150-33	0.0346	33	0.225	0.765	0.461	0.253	1.43	0.0494	0.469	0.382	0.171	3.39	—	0.090	0.114	-0.866	0.527	1.74	0.752	—	
	350T150-43	0.0451	33	0.293	1.00	0.601	0.329	1.43	0.0638	0.467	0.531	0.243	4.80	—	0.198	0.148	-0.861	0.525	1.74	0.754	—	
	350T150-54	0.0566	50	0.367	1.25	0.762	0.412	1.44	0.0793	0.465	0.679	0.310	9.28	—	0.392	0.187	-0.855	0.521	1.74	0.758	—	
	350T150-68	0.0713	50	0.462	1.57	0.972	0.518	1.45	0.0986	0.462	0.919	0.428	12.8	—	0.783	0.238	-0.847	0.516	1.74	0.763	—	
	350T200-33	0.0346	33	0.259	0.883	0.574	0.315	1.49	0.108	0.646	0.428	0.181	3.57	—	0.103	0.249	-1.29	0.761	2.07	0.614	—	
	350T200-43	0.0451	33	0.338	1.15	0.749	0.409	1.49	0.140	0.645	0.601	0.257	5.09	—	0.229	0.323	-1.28	0.758	2.07	0.616	—	
	350T200-54	0.0566	50	0.424	1.44	0.949	0.513	1.50	0.175	0.642	0.770	0.329	9.85	—	0.453	0.409	-1.27	0.754	2.07	0.621	—	
	350T200-68	0.0713	50	0.534	1.82	1.21	0.647	1.51	0.218	0.639	1.05	0.458	13.7	—	0.904	0.522	-1.26	0.749	2.07	0.627	—	
	350T300-54	0.0566	50	0.537	1.83	1.32	0.716	1.57	0.525	0.989	0.912	0.353	10.6	—	0.573	1.24	-2.16	1.23	2.85	0.424	—	
	350T300-68	0.0713	50	0.676	2.30	1.70	0.904	1.58	0.657	0.986	1.27	0.496	14.8	—	1.15	1.59	-2.15	1.23	2.85	0.428	—	

[†]Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

^{*}Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming Kφ=0.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = 1-(Xo/Ro)²
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

Complies with AISI S100-12 • IBC 2015

3-5/8" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
3-5/8" Stud	362S137-33	0.0346	33	0.236	0.804	0.479	0.264	1.42	0.0594	0.501	0.479	0.232	4.59	4.73	0.094	0.165	-1.00	0.615	1.81	0.694	34.7	
	362S137-43	0.0451	33	0.306	1.04	0.616	0.340	1.42	0.0755	0.497	0.616	0.320	6.33	6.66	0.207	0.208	-0.991	0.608	1.80	0.697	34.6	
	362S137-54	0.0566	50	0.379	1.29	0.756	0.417	1.41	0.0911	0.490	0.756	0.382	11.4	11.9	0.405	0.251	-0.978	0.601	1.79	0.700	27.9	
	362S137-68	0.0713	50	0.470	1.60	0.923	0.509	1.40	0.109	0.481	0.923	0.493	14.8	15.2	0.797	0.302	-0.959	0.592	1.76	0.704	27.8	
	362S137-97	0.1017	50	0.648	2.20	1.23	0.678	1.38	0.138	0.461	1.23	0.663	24.1	20.3	2.23	0.390	-0.922	0.573	1.72	0.713	27.8	
	362S162-33	0.0346	33	0.262	0.892	0.551	0.304	1.45	0.099	0.616	0.551	0.268	5.29	5.43	0.105	0.297	-1.31	0.789	2.05	0.592	42.6	
	362S162-43	0.0451	33	0.340	1.16	0.710	0.392	1.45	0.127	0.611	0.710	0.372	7.34	7.62	0.230	0.376	-1.30	0.782	2.04	0.594	42.5	
	362S162-54	0.0566	50	0.422	1.44	0.873	0.482	1.44	0.154	0.605	0.873	0.444	13.3	13.6	0.451	0.457	-1.28	0.774	2.02	0.597	34.4	
	362S162-68	0.0713	50	0.524	1.78	1.07	0.590	1.43	0.186	0.596	1.07	0.574	17.2	17.7	0.887	0.552	-1.26	0.765	2.00	0.600	34.4	
	362S162-97	0.1017	50	0.724	2.46	1.44	0.792	1.41	0.241	0.577	1.44	0.776	27.5	23.7	2.50	0.723	-1.23	0.745	1.95	0.606	34.5	
	362S200-33	0.0346	33	0.297	1.01	0.648	0.358	1.48	0.177	0.772	0.642	0.294	5.81	6.19	0.118	0.577	-1.74	1.03	2.41	0.478	53.6	
	362S200-43	0.0451	33	0.385	1.31	0.836	0.461	1.47	0.227	0.767	0.836	0.427	8.43	8.70	0.261	0.734	-1.73	1.02	2.40	0.480	53.5	
	362S200-54	0.0566	50	0.479	1.63	1.03	0.568	1.47	0.277	0.761	1.03	0.490	14.7	15.5	0.511	0.896	-1.71	1.02	2.38	0.482	43.3	
	362S200-68	0.0713	50	0.595	2.02	1.27	0.698	1.46	0.337	0.753	1.27	0.666	20.0	20.5	1.01	1.09	-1.70	1.01	2.36	0.484	43.3	
	362S200-97	0.1017	50	0.826	2.81	1.71	0.945	1.44	0.446	0.735	1.71	0.929	32.0	28.3	2.85	1.44	-1.66	0.99	2.32	0.487	43.6	
	362S250-43	0.0451	33	0.430	1.46	0.980	0.541	1.51	0.385	0.946	0.980	0.449	8.88	9.36	0.292	1.23	-2.20	1.28	2.83	0.396	64.1	
	362S250-54	0.0566	50	0.535	1.82	1.21	0.668	1.50	0.473	0.940	1.20	0.514	15.4	16.5	0.571	1.51	-2.18	1.27	2.81	0.397	52.0	
	362S250-68	0.0713	50	0.666	2.27	1.49	0.823	1.50	0.578	0.931	1.49	0.689	20.6	22.2	1.13	1.84	-2.17	1.26	2.79	0.398	52.0	
	362S250-97	0.1017	50	0.927	3.16	2.03	1.12	1.48	0.773	0.913	2.03	1.06	35.5	33.5	3.20	2.45	-2.13	1.24	2.75	0.401	52.5	
3-5/8" Track	362T125-33	0.0346	33	0.212	0.721	0.438	0.232	1.44	0.0301	0.377	0.385	0.174	3.44	—	0.0845	0.076	-0.658	0.410	1.63	0.836	—	
	362T125-43	0.0451	33	0.276	0.939	0.571	0.302	1.44	0.0388	0.375	0.531	0.245	4.84	—	0.187	0.098	-0.654	0.407	1.62	0.838	—	
	362T125-54	0.0566	50	0.346	1.18	0.723	0.378	1.45	0.0481	0.373	0.678	0.312	9.34	—	0.369	0.123	-0.648	0.404	1.63	0.841	—	
	362T125-68	0.0713	50	0.436	1.48	0.921	0.475	1.45	0.0596	0.370	0.908	0.427	12.8	—	0.738	0.156	-0.641	0.399	1.63	0.846	—	
	362T125-97	0.1017	50	0.621	2.11	1.34	0.675	1.47	0.0822	0.364	1.34	0.675	22.7	—	2.14	0.226	-0.626	0.390	1.64	0.854	—	
	362T150-33	0.0346	33	0.229	0.780	0.499	0.264	1.48	0.0499	0.467	0.414	0.180	3.56	—	0.091	0.124	-0.854	0.522	1.77	0.766	—	
	362T150-43	0.0451	33	0.298	1.02	0.650	0.344	1.48	0.0644	0.465	0.575	0.255	5.04	—	0.202	0.160	-0.850	0.519	1.77	0.768	—	
	362T150-54	0.0566	50	0.374	1.27	0.823	0.431	1.48	0.0801	0.462	0.735	0.325	9.74	—	0.400	0.202	-0.844	0.516	1.77	0.772	—	
	362T150-68	0.0713	50	0.471	1.60	1.05	0.542	1.49	0.100	0.460	0.993	0.449	13.4	—	0.799	0.257	-0.836	0.511	1.77	0.777	—	
	362T150-97	0.1017	50	0.672	2.29	1.53	0.771	1.51	0.138	0.453	1.53	0.733	21.9	—	2.32	0.374	-0.820	0.501	1.78	0.787	—	
	362T200-33	0.0346	33	0.264	0.897	0.619	0.329	1.53	0.110	0.645	0.464	0.190	3.76	—	0.105	0.269	-1.27	0.754	2.09	0.631	—	
	362T200-43	0.0451	33	0.343	1.17	0.808	0.427	1.53	0.142	0.643	0.650	0.270	5.34	—	0.233	0.350	-1.27	0.752	2.09	0.633	—	
	362T200-54	0.0566	50	0.431	1.47	1.02	0.536	1.54	0.177	0.640	0.832	0.345	10.3	—	0.460	0.442	-1.26	0.748	2.09	0.638	—	
	362T200-68	0.0713	50	0.543	1.85	1.31	0.675	1.55	0.221	0.638	1.14	0.480	14.4	—	0.919	0.564	-1.25	0.743	2.09	0.643	—	
	362T200-97	0.1017	50	0.773	2.63	1.92	0.963	1.57	0.308	0.632	1.84	0.804	24.1	—	2.67	0.825	-1.23	0.732	2.10	0.655	—	
	362T300-54	0.0566	50	0.544	1.85	1.43	0.746	1.62	0.531	0.988	0.985	0.371	11.1	—	0.581	1.34	-2.15	1.23	2.86	0.439	—	
	362T300-68	0.0713	50	0.685	2.33	1.82	0.941	1.63	0.665	0.985	1.36	0.519	15.6	—	1.16	1.71	-2.14	1.22	2.86	0.443	—	
	362T300-97	0.1017	50	0.977	3.32	2.68	1.35	1.66	0.937	0.979	2.27	0.887	26.6	—	3.37	2.52	-2.12	1.21	2.86	0.453	—	

*Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming $K\phi=0$.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = $1-(Xo/Ro)$?
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

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4" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties						Effective Properties				Torsional Properties							Lu (in)
				Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Ry (in)	Ixe (in ⁴)	Sxe (in ³)	Ma (in-k)	Mad (in-k)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	β	
4" Stud	400S137-33	0.0346	33	0.249	0.848	0.603	0.302	1.56	0.0612	0.496	0.603	0.259	5.12	5.29	0.0994	0.204	-0.965	0.597	1.90	0.741	34.5
	400S137-43	0.0451	33	0.323	1.10	0.776	0.388	1.55	0.0778	0.491	0.776	0.359	7.09	7.47	0.219	0.257	-0.954	0.591	1.89	0.744	34.3
	400S137-54	0.0566	50	0.401	1.36	0.953	0.477	1.54	0.0939	0.484	0.953	0.428	12.8	13.4	0.428	0.311	-0.940	0.583	1.87	0.747	27.7
	400S137-68	0.0713	50	0.497	1.69	1.17	0.583	1.53	0.112	0.475	1.17	0.558	16.7	17.4	0.842	0.375	-0.922	0.574	1.85	0.751	27.6
	400S137-97	0.1017	50	0.686	2.33	1.56	0.779	1.51	0.142	0.455	1.56	0.765	27.8	23.3	2.36	0.486	-0.885	0.555	1.81	0.760	27.5
	400S162-33	0.0346	33	0.275	0.936	0.692	0.346	1.59	0.103	0.611	0.692	0.299	5.91	6.07	0.110	0.363	-1.26	0.768	2.12	0.644	42.3
	400S162-43	0.0451	33	0.357	1.21	0.892	0.446	1.58	0.131	0.606	0.892	0.417	8.23	8.55	0.242	0.460	-1.25	0.761	2.11	0.647	42.2
	400S162-54	0.0566	50	0.443	1.51	1.10	0.549	1.57	0.159	0.600	1.10	0.498	14.9	15.3	0.473	0.560	-1.24	0.754	2.09	0.649	34.1
	400S162-68	0.0713	50	0.550	1.87	1.35	0.673	1.56	0.192	0.591	1.35	0.648	19.4	20.2	0.933	0.677	-1.22	0.745	2.07	0.653	34.0
	400S162-97	0.1017	50	0.762	2.59	1.81	0.907	1.54	0.250	0.572	1.81	0.892	31.7	27.1	2.63	0.889	-1.18	0.725	2.03	0.660	34.1
	400S200-33	0.0346	33	0.310	1.05	0.812	0.406	1.62	0.183	0.769	0.804	0.329	6.49	6.90	0.124	0.697	-1.69	1.007	2.46	0.530	53.1
	400S200-43	0.0451	33	0.402	1.37	1.05	0.524	1.61	0.235	0.764	1.05	0.478	9.45	9.74	0.272	0.886	-1.68	1.000	2.45	0.532	53.0
	400S200-54	0.0566	50	0.500	1.70	1.29	0.646	1.61	0.287	0.758	1.29	0.549	16.4	17.3	0.534	1.08	-1.66	0.993	2.43	0.534	42.9
	400S200-68	0.0713	50	0.622	2.12	1.59	0.795	1.60	0.349	0.750	1.59	0.751	22.5	23.0	1.05	1.32	-1.64	0.983	2.41	0.536	42.9
	400S200-97	0.1017	50	0.864	2.94	2.16	1.08	1.58	0.463	0.732	2.16	1.06	36.7	32.3	2.98	1.75	-1.60	0.963	2.37	0.541	43.1
	400S250-43	0.0451	33	0.447	1.52	1.22	0.612	1.66	0.399	0.945	1.22	0.503	9.93	10.4	0.303	1.49	-2.14	1.25	2.86	0.443	63.7
	400S250-54	0.0566	50	0.556	1.89	1.51	0.756	1.65	0.490	0.938	1.50	0.576	17.2	18.4	0.594	1.82	-2.12	1.24	2.85	0.444	51.6
	400S250-68	0.0713	50	0.693	2.36	1.86	0.932	1.64	0.599	0.929	1.86	0.775	23.2	24.8	1.17	2.23	-2.11	1.23	2.83	0.445	51.6
	400S250-97	0.1017	50	0.966	3.29	2.54	1.27	1.62	0.801	0.911	2.54	1.20	40.4	38.1	3.33	2.98	-2.07	1.21	2.78	0.448	51.9
4" Track	400T125-33	0.0346	33	0.225	0.765	0.549	0.265	1.56	0.0309	0.371	0.484	0.201	3.97	—	0.090	0.095	-0.630	0.396	1.73	0.867	—
	400T125-43	0.0451	33	0.293	1.00	0.716	0.344	1.56	0.0398	0.369	0.666	0.282	5.57	—	0.198	0.122	-0.626	0.394	1.72	0.868	—
	400T125-54	0.0566	50	0.367	1.25	0.904	0.431	1.57	0.0493	0.366	0.850	0.359	10.7	—	0.392	0.154	-0.621	0.390	1.73	0.871	—
	400T125-68	0.0713	50	0.462	1.57	1.15	0.541	1.58	0.0611	0.364	1.13	0.488	14.6	—	0.783	0.194	-0.614	0.386	1.73	0.874	—
	400T125-97	0.1017	50	0.659	2.24	1.67	0.768	1.59	0.0842	0.358	1.67	0.768	25.8	—	2.27	0.280	-0.600	0.377	1.74	0.881	—
	400T150-33	0.0346	33	0.242	0.824	0.622	0.300	1.60	0.0513	0.460	0.519	0.208	4.12	—	0.097	0.155	-0.821	0.507	1.86	0.805	—
	400T150-43	0.0451	33	0.315	1.07	0.811	0.390	1.60	0.0662	0.458	0.719	0.293	5.80	—	0.214	0.200	-0.817	0.504	1.86	0.807	—
	400T150-54	0.0566	50	0.396	1.35	1.03	0.489	1.61	0.0822	0.456	0.918	0.374	11.2	—	0.422	0.252	-0.811	0.501	1.86	0.810	—
	400T150-68	0.0713	50	0.498	1.69	1.31	0.615	1.62	0.102	0.453	1.24	0.513	15.4	—	0.844	0.320	-0.804	0.496	1.86	0.814	—
	400T150-97	0.1017	50	0.710	2.41	1.90	0.874	1.64	0.142	0.447	1.90	0.832	24.9	—	2.45	0.463	-0.788	0.487	1.87	0.823	—
	400T200-33	0.0346	33	0.277	0.941	0.768	0.371	1.67	0.113	0.639	0.581	0.220	4.34	—	0.110	0.336	-1.23	0.737	2.17	0.678	—
	400T200-43	0.0451	33	0.360	1.23	1.00	0.482	1.67	0.146	0.637	0.811	0.311	6.14	—	0.244	0.436	-1.22	0.734	2.16	0.680	—
	400T200-54	0.0566	50	0.452	1.54	1.27	0.604	1.67	0.182	0.635	1.04	0.397	11.9	—	0.483	0.551	-1.22	0.730	2.17	0.684	—
	400T200-68	0.0713	50	0.569	1.94	1.62	0.761	1.69	0.227	0.632	1.41	0.549	16.4	—	0.965	0.702	-1.21	0.725	2.17	0.689	—
	400T200-97	0.1017	50	0.811	2.76	2.36	1.09	1.71	0.318	0.626	2.27	0.911	27.3	—	2.80	1.02	-1.19	0.715	2.17	0.699	—
	400T300-54	0.0566	50	0.565	1.92	1.75	0.835	1.76	0.548	0.985	1.22	0.427	12.8	—	0.604	1.66	-2.09	1.21	2.91	0.482	—
	400T300-68	0.0713	50	0.712	2.42	2.24	1.05	1.77	0.686	0.982	1.69	0.594	17.8	—	1.21	2.12	-2.08	1.20	2.90	0.487	—
	400T300-97	0.1017	50	1.01	3.45	3.28	1.51	1.80	0.967	0.976	2.79	1.01	30.1	—	3.50	3.11	-2.06	1.19	2.90	0.497	—

¹Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming Kφ=0.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = 1-(Xo/Ro)?
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

Complies with AISI S100-12 • IBC 2015

5-1/2" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
5-1/2" Stud	550S137-33	0.0346	33	0.301	1.02	1.28	0.467	2.06	0.0670	0.472	1.28	0.453	9.82	7.49	0.120	0.411	-0.841	0.536	2.28	0.864	33.7	
	550S137-43	0.0451	33	0.391	1.33	1.66	0.602	2.06	0.0852	0.467	1.66	0.602	13.3	10.8	0.265	0.520	-0.830	0.530	2.27	0.866	33.5	
	550S137-54	0.0566	50	0.486	1.65	2.04	0.742	2.05	0.103	0.460	2.04	0.722	24.3	19.3	0.519	0.632	-0.817	0.523	2.25	0.868	27.0	
	550S137-68	0.0713	50	0.604	2.05	2.50	0.911	2.04	0.123	0.451	2.50	0.910	31.5	26.1	1.02	0.764	-0.801	0.514	2.23	0.872	26.8	
	550S137-97	0.1017	50	0.838	2.85	3.38	1.23	2.01	0.156	0.431	3.38	1.23	44.7	36.8	2.89	0.997	-0.766	0.497	2.19	0.878	26.4	
	550S162-33	0.0346	33	0.327	1.11	1.46	0.530	2.11	0.113	0.589	1.46	0.512	10.1	8.63	0.130	0.713	-1.11	0.697	2.46	0.795	41.4	
	550S162-43	0.0451	33	0.424	1.44	1.88	0.685	2.11	0.145	0.584	1.88	0.681	14.8*	13.1	0.288	0.905	-1.10	0.691	2.45	0.797	39.2	
	550S162-54	0.0566	50	0.528	1.80	2.32	0.845	2.10	0.176	0.577	2.32	0.811	26.9*	23.5	0.564	1.10	-1.09	0.684	2.43	0.800	31.6	
	550S162-68	0.0713	50	0.657	2.24	2.86	1.04	2.09	0.212	0.569	2.86	1.03	34.9*	32.3	1.11	1.34	-1.07	0.675	2.41	0.803	31.1	
	550S162-97	0.1017	50	0.915	3.11	3.89	1.41	2.06	0.276	0.550	3.89	1.41	50.1*	42.3	3.15	1.77	-1.04	0.656	2.37	0.809	30.1	
	550S200-33	0.0346	33	0.362	1.23	1.69	0.616	2.16	0.204	0.751	1.68	0.559	11.1	9.80	0.144	1.33	-1.51	0.925	2.74	0.698	51.9	
	550S200-43	0.0451	33	0.469	1.60	2.19	0.796	2.16	0.261	0.746	2.19	0.776	15.3	14.0	0.318	1.69	-1.50	0.918	2.73	0.700	51.7	
	550S200-54	0.0566	50	0.585	1.99	2.71	0.984	2.15	0.320	0.739	2.71	0.901	27.0	24.9	0.624	2.07	-1.48	0.911	2.72	0.702	41.8	
	550S200-68	0.0713	50	0.729	2.48	3.34	1.22	2.14	0.389	0.731	3.34	1.19	39.4	33.5	1.23	2.53	-1.46	0.902	2.70	0.705	41.7	
	550S200-97	0.1017	50	1.02	3.46	4.56	1.66	2.12	0.516	0.713	4.56	1.66	57.3*	57.3	3.50	3.38	-1.43	0.882	2.65	0.710	38.6	
	550S250-43	0.0451	33	0.515	1.75	2.52	0.918	2.22	0.445	0.930	2.52	0.817	16.2	14.7	0.349	2.84	-1.93	1.16	3.08	0.607	62.6	
	550S250-54	0.0566	50	0.641	2.18	3.13	1.14	2.21	0.547	0.923	3.08	0.950	28.4	26.1	0.685	3.49	-1.92	1.16	3.07	0.609	50.7	
	550S250-68	0.0713	50	0.800	2.72	3.87	1.41	2.20	0.669	0.914	3.86	1.23	36.9	35.4	1.36	4.27	-1.90	1.15	3.05	0.611	50.6	
	550S250-97	0.1017	50	1.12	3.80	5.31	1.93	2.18	0.897	0.896	5.31	1.84	61.8*	60.3	3.85	5.76	-1.86	1.13	3.00	0.616	47.6	
5-1/2" Track	550T125-33	0.0346	33	0.277	0.941	1.16	0.411	2.05	0.0332	0.346	1.03	0.270	5.33	—	0.110	0.195	-0.541	0.350	2.15	0.936	—	
	550T125-43	0.0451	33	0.360	1.23	1.51	0.534	2.05	0.0428	0.344	1.43	0.417	8.23	—	0.244	0.252	-0.537	0.348	2.14	0.937	—	
	550T125-54	0.0566	50	0.452	1.54	1.90	0.668	2.05	0.0530	0.342	1.81	0.535	16.0	—	0.483	0.315	-0.532	0.345	2.15	0.939	—	
	550T125-68	0.0713	50	0.569	1.94	2.41	0.839	2.06	0.0656	0.340	2.38	0.769	23.0	—	0.965	0.397	-0.526	0.341	2.15	0.940	—	
	550T125-97	0.1017	50	0.811	2.76	3.48	1.19	2.07	0.0904	0.334	3.48	1.19	40.0	—	2.80	0.564	-0.514	0.333	2.16	0.943	—	
	550T150-33	0.0346	33	0.294	1.00	1.30	0.459	2.10	0.0555	0.434	1.12	0.310	6.12	—	0.117	0.320	-0.714	0.455	2.26	0.900	—	
	550T150-43	0.0451	33	0.383	1.30	1.69	0.596	2.10	0.0716	0.432	1.52	0.468	9.25	—	0.260	0.414	-0.709	0.452	2.26	0.901	—	
	550T150-54	0.0566	50	0.480	1.63	2.13	0.747	2.10	0.0889	0.430	1.93	0.595	17.8	—	0.513	0.519	-0.704	0.449	2.26	0.903	—	
	550T150-68	0.0713	50	0.605	2.06	2.70	0.939	2.11	0.111	0.427	2.57	0.804	24.1	—	1.03	0.655	-0.698	0.445	2.27	0.905	—	
	550T150-97	0.1017	50	0.862	2.93	3.91	1.33	2.13	0.153	0.421	3.90	1.28	38.3	—	2.97	0.937	-0.684	0.436	2.27	0.909	—	
	550T200-33	0.0346	33	0.329	1.12	1.57	0.555	2.18	0.123	0.613	1.25	0.307	6.06	—	0.131	0.694	-1.09	0.674	2.52	0.813	—	
	550T200-43	0.0451	33	0.428	1.46	2.04	0.722	2.19	0.160	0.611	1.69	0.495	9.79	—	0.290	0.900	-1.08	0.671	2.51	0.814	—	
	550T200-54	0.0566	50	0.537	1.83	2.58	0.905	2.19	0.199	0.609	2.15	0.630	18.9	—	0.573	1.13	-1.08	0.668	2.52	0.817	—	
	550T200-68	0.0713	50	0.676	2.30	3.27	1.14	2.20	0.248	0.606	2.89	0.857	25.7	—	1.15	1.43	-1.07	0.663	2.52	0.820	—	
	550T200-97	0.1017	50	0.964	3.28	4.75	1.62	2.22	0.347	0.600	4.57	1.39	41.6	—	3.32	2.07	-1.05	0.653	2.53	0.826	—	
	550T300-54	0.0566	50	0.650	2.21	3.48	1.22	2.31	0.606	0.965	2.53	0.663	19.8	—	0.694	3.39	-1.90	1.13	3.14	0.636	—	
	550T300-68	0.0713	50	0.819	2.79	4.42	1.54	2.32	0.758	0.962	3.42	0.929	27.8	—	1.39	4.31	-1.89	1.12	3.15	0.640	—	
	550T300-97	0.1017	50	1.167	3.97	6.43	2.20	2.35	1.07	0.956	5.52	1.53	45.8	—	4.02	6.25	-1.87	1.11	3.15	0.647	—	

*Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming $K\phi=0$.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = $1-(Xo/Ro)$?
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

Complies with AISI S100-12 • IBC 2015

6" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
6" Stud	600S137-33	0.0346	33	0.318	1.08	1.58	0.528	2.23	0.0685	0.464	1.55	0.455	8.98	8.19	0.127	0.500	-0.807	0.519	2.42	0.889	33.5	
	600S137-43	0.0451	33	0.413	1.41	2.04	0.681	2.22	0.0871	0.459	2.04	0.645	12.7	11.8	0.280	0.633	-0.796	0.513	2.41	0.890	33.3	
	600S137-54	0.0566	50	0.514	1.75	2.52	0.839	2.21	0.105	0.452	2.52	0.777	23.3	21.3	0.549	0.769	-0.784	0.506	2.39	0.893	26.8	
	600S137-68	0.0713	50	0.640	2.18	3.10	1.03	2.20	0.125	0.443	3.09	1.03	30.8	28.9	1.08	0.930	-0.768	0.497	2.37	0.895	26.5	
	600S137-97	0.1017	50	0.889	3.03	4.19	1.40	2.17	0.159	0.423	4.19	1.40	50.8*	50.8	3.07	1.22	-0.734	0.480	2.33	0.901	23.6	
	600S162-33	0.0346	33	0.344	1.17	1.79	0.598	2.28	0.116	0.581	1.79	0.577	11.4	9.47	0.137	0.861	-1.07	0.677	2.59	0.828	41.1	
	600S162-43	0.0451	33	0.447	1.52	2.32	0.772	2.28	0.148	0.576	2.32	0.767	16.7*	14.5	0.303	1.10	-1.06	0.670	2.58	0.830	39.0	
	600S162-54	0.0566	50	0.556	1.89	2.86	0.954	2.27	0.180	0.570	2.86	0.916	30.3*	25.9	0.594	1.34	-1.05	0.663	2.56	0.833	31.4	
	600S162-68	0.0713	50	0.693	2.36	3.53	1.18	2.26	0.218	0.561	3.52	1.16	39.5*	35.7	1.17	1.63	-1.03	0.655	2.54	0.835	30.8	
	600S162-97	0.1017	50	0.966	3.29	4.80	1.60	2.23	0.283	0.542	4.80	1.60	56.7*	56.7	3.33	2.15	-1.00	0.636	2.50	0.841	29.8	
	600S200-33	0.0346	33	0.379	1.29	2.08	0.692	2.34	0.209	0.743	2.06	0.621	12.3	10.8	0.151	1.59	-1.46	0.901	2.86	0.740	51.6	
	600S200-43	0.0451	33	0.492	1.67	2.68	0.894	2.34	0.268	0.739	2.68	0.873	17.2	15.4	0.334	2.03	-1.45	0.894	2.84	0.742	51.4	
	600S200-54	0.0566	50	0.613	2.09	3.32	1.11	2.33	0.329	0.732	3.32	1.02	30.4	27.4	0.655	2.49	-1.43	0.887	2.83	0.744	41.6	
	600S200-68	0.0713	50	0.764	2.60	4.10	1.37	2.32	0.400	0.723	4.10	1.32	43.7*	39.7	1.30	3.05	-1.41	0.878	2.81	0.746	39.3	
	600S200-97	0.1017	50	1.07	3.63	5.61	1.87	2.29	0.530	0.705	5.61	1.87	64.5*	63.7	3.68	4.08	-1.38	0.859	2.77	0.752	38.3	
	600S250-43	0.0451	33	0.537	1.83	3.08	1.03	2.40	0.458	0.923	3.08	0.918	18.1	16.2	0.364	3.41	-1.87	1.14	3.18	0.652	62.4	
	600S250-54	0.0566	50	0.670	2.28	3.82	1.27	2.39	0.562	0.917	3.77	1.07	32.0	28.7	0.715	4.19	-1.86	1.13	3.16	0.654	50.5	
	600S250-68	0.0713	50	0.836	2.84	4.73	1.58	2.38	0.688	0.908	4.72	1.39	41.5	39.1	1.42	5.15	-1.84	1.12	3.14	0.657	50.4	
	600S250-97	0.1017	50	1.17	3.98	6.50	2.17	2.36	0.923	0.889	6.50	2.06	69.4*	66.8	4.03	6.95	-1.80	1.10	3.10	0.661	47.3	
	600S300-54	0.0566	50	0.726	2.47	4.32	1.44	2.44	0.875	1.10	4.01	1.11	33.1	29.6	0.775	6.45	-2.30	1.37	3.53	0.575	59.1	
	600S300-68	0.0713	50	0.907	3.09	5.35	1.78	2.43	1.08	1.09	5.22	1.45	43.3	40.5	1.54	7.94	-2.28	1.36	3.51	0.577	58.9	
	600S300-97	0.1017	50	1.27	4.32	7.38	2.46	2.41	1.45	1.07	7.28	2.25	67.3	64.7	4.38	10.78	-2.24	1.34	3.46	0.581	58.8	
6" Track	600T125-33	0.0346	33	0.294	1.00	1.43	0.465	2.20	0.0338	0.339	1.26	0.297	5.87	—	0.117	0.238	-0.516	0.337	2.29	0.949	—	
	600T125-43	0.0451	33	0.383	1.30	1.86	0.604	2.20	0.0435	0.337	1.77	0.461	9.11	—	0.260	0.307	-0.513	0.335	2.29	0.950	—	
	600T125-54	0.0566	50	0.480	1.63	2.34	0.757	2.21	0.0539	0.335	2.24	0.592	17.7	—	0.513	0.384	-0.508	0.332	2.29	0.951	—	
	600T125-68	0.0713	50	0.605	2.06	2.97	0.951	2.22	0.0668	0.332	2.93	0.858	25.7	—	1.03	0.483	-0.503	0.329	2.30	0.952	—	
	600T125-97	0.1017	50	0.862	2.93	4.28	1.35	2.23	0.0919	0.327	4.28	1.347	45.3	—	2.97	0.685	-0.491	0.321	2.31	0.955	—	
	600T150-33	0.0346	33	0.311	1.06	1.59	0.52	2.26	0.057	0.426	1.33	0.303	5.99	—	0.124	0.390	-0.684	0.439	2.40	0.919	—	
	600T150-43	0.0451	33	0.405	1.38	2.07	0.67	2.26	0.073	0.424	1.89	0.474	9.36	—	0.275	0.504	-0.680	0.437	2.40	0.920	—	
	600T150-54	0.0566	50	0.509	1.73	2.61	0.84	2.27	0.091	0.422	2.40	0.609	18.2	—	0.543	0.632	-0.675	0.434	2.40	0.921	—	
	600T150-68	0.0713	50	0.641	2.18	3.31	1.06	2.27	0.113	0.419	3.16	0.891	26.7	—	1.09	0.797	-0.669	0.430	2.41	0.923	—	
	600T150-97	0.1017	50	0.913	3.11	4.78	1.50	2.29	0.156	0.414	4.78	1.444	43.2	—	3.15	1.14	-0.656	0.421	2.42	0.926	—	
	600T200-33	0.0346	33	0.346	1.18	1.91	0.623	2.35	0.126	0.604	1.54	0.333	6.59	—	0.138	0.847	-1.05	0.655	2.64	0.843	—	
	600T200-43	0.0451	33	0.451	1.53	2.49	0.810	2.35	0.163	0.602	2.08	0.565	11.2	—	0.305	1.10	-1.04	0.652	2.64	0.844	—	
	600T200-54	0.0566	50	0.565	1.92	3.15	1.01	2.36	0.203	0.600	2.64	0.717	21.5	—	0.604	1.38	-1.04	0.649	2.65	0.846	—	
	600T200-68	0.0713	50	0.712	2.42	3.99	1.28	2.37	0.254	0.597	3.54	0.973	29.1	—	1.21	1.75	-1.03	0.644	2.65	0.849	—	
	600T200-97	0.1017	50	1.01	3.45	5.77	1.82	2.39	0.355	0.591	5.56	1.57	46.9	—	3.50	2.51	-1.02	0.635	2.66	0.854	—	
	600T300-54	0.0566	50	0.679	2.31	4.21	1.36	2.49	0.622	0.957	3.11	0.722	21.6	—	0.725	4.13	-1.84	1.11	3.24	0.677	—	
	600T300-68	0.0713	50	0.854	2.91	5.35	1.71	2.50	0.778	0.954	4.16	1.05	31.5	—	1.45	5.24	-1.83	1.10	3.25	0.681	—	
	600T300-97	0.1017	50	1.22	4.15	7.76	2.44	2.52	1.10	0.948	6.68	1.72	51.6	—	4.20	7.58	-1.82	1.09	3.25	0.688	—	

*Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming Kφ=0.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = 1-(Xo/Ro)?
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

Complies with AISI S100-12 • IBC 2015

8" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties					Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β			
8" Stud	800S137-33'	0.0346	33	0.388	1.32	3.20	0.80	2.87	0.073	0.435	3.00	0.622	12.3	10.7	0.155	0.957	-0.696	0.460	2.99	0.946	32.5		
	800S137-43	0.0451	33	0.503	1.71	4.14	1.03	2.87	0.093	0.430	4.00	0.896	17.7	15.8	0.341	1.21	-0.687	0.454	2.98	0.947	32.2		
	800S137-54	0.0566	50	0.627	2.13	5.11	1.28	2.86	0.112	0.423	4.97	1.08	32.4	28.5	0.670	1.48	-0.676	0.448	2.96	0.948	25.9		
	800S137-68	0.0713	50	0.782	2.66	6.31	1.58	2.84	0.134	0.414	6.29	1.47	44.0	39.6	1.33	1.79	-0.661	0.440	2.94	0.950	25.6		
	800S137-97	0.1017	50	1.09	3.72	8.60	2.15	2.81	0.170	0.394	8.60	2.15	64.4	64.0	3.77	2.35	-0.630	0.423	2.90	0.953	25.1		
	800S162-33'	0.0346	33	0.413	1.41	3.58	0.896	2.94	0.125	0.550	3.38	0.710	14.0	12.6	0.165	1.63	-0.936	0.607	3.14	0.911	40.1		
	800S162-43	0.0451	33	0.537	1.83	4.63	1.16	2.94	0.160	0.546	4.50	1.02	20.1	18.3	0.364	2.08	-0.926	0.601	3.13	0.912	39.8		
	800S162-54	0.0566	50	0.670	2.28	5.74	1.43	2.93	0.194	0.539	5.60	1.23	36.8	32.8	0.715	2.54	-0.914	0.594	3.11	0.914	32.1		
	800S162-68	0.0713	50	0.836	2.84	7.09	1.77	2.91	0.235	0.530	7.07	1.66	49.8	45.1	1.42	3.09	-0.899	0.586	3.09	0.916	31.9		
	800S162-97	0.1017	50	1.17	3.98	9.72	2.43	2.88	0.305	0.511	9.71	2.43	72.7	72.0	4.03	4.11	-0.866	0.568	3.05	0.920	31.4		
	800S200-33'	0.0346	33	0.448	1.52	4.10	1.02	3.02	0.227	0.712	4.10	0.816	16.1	14.5	0.179	2.97	-1.29	0.817	3.36	0.853	50.6		
	800S200-43	0.0451	33	0.582	1.98	5.30	1.33	3.02	0.292	0.708	5.30	1.29	25.5	21.0	0.395	3.80	-1.28	0.811	3.35	0.855	50.3		
	800S200-54	0.0566	50	0.726	2.47	6.57	1.64	3.01	0.357	0.701	6.57	1.50	44.9	37.4	0.775	4.66	-1.26	0.804	3.34	0.856	40.7		
	800S200-68	0.0713	50	0.907	3.09	8.14	2.04	3.00	0.435	0.692	8.14	1.96	65.2*	54.7	1.54	5.71	-1.25	0.796	3.32	0.859	38.4		
	800S200-97	0.1017	50	1.27	4.32	11.2	2.80	2.97	0.577	0.674	11.20	2.80	96.6*	89.8	4.38	7.68	-1.21	0.777	3.28	0.863	37.2		
	800S250-43	0.0451	33	0.627	2.13	6.02	1.50	3.10	0.500	0.893	6.02	1.31	26.0	22.1	0.425	6.37	-1.67	1.04	3.63	0.787	61.5		
	800S250-54	0.0566	50	0.783	2.66	7.47	1.87	3.09	0.614	0.886	7.38	1.53	45.7	39.1	0.836	7.85	-1.66	1.04	3.62	0.789	49.8		
	800S250-68	0.0713	50	0.978	3.33	9.26	2.32	3.08	0.752	0.877	9.24	2.06	61.7	53.8	1.66	9.65	-1.64	1.03	3.60	0.791	49.6		
	800S250-97	0.1017	50	1.37	4.67	12.8	3.20	3.05	1.01	0.858	12.8	3.05	1030*	93.5	4.73	13.1	-1.61	1.01	3.56	0.796	46.4		
	800S300-54	0.0566	50	0.839	2.86	8.36	2.09	3.16	0.959	1.07	7.86	1.54	46.0	40.2	0.896	12.1	-2.07	1.27	3.92	0.721	58.6		
	800S300-68	0.0713	50	1.05	3.57	10.4	2.60	3.15	1.18	1.06	10.1	2.14	64.2	55.5	1.78	14.9	-2.05	1.26	3.90	0.723	58.4		
	800S300-97	0.1017	50	1.47	5.02	14.4	3.59	3.12	1.60	1.04	14.2	3.30	98.9	89.9	5.08	20.3	-2.02	1.24	3.86	0.727	58.1		
8" Track	800T125-33'	0.0346	33	0.363	1.24	2.90	0.711	2.82	0.0356	0.313	2.44	0.407	8.03	—	0.145	0.456	-0.439	0.294	2.88	0.977	—		
	800T125-43	0.0451	33	0.473	1.61	3.77	0.925	2.82	0.0458	0.311	3.48	0.640	12.7	—	0.321	0.589	-0.436	0.292	2.87	0.977	—		
	800T125-54	0.0566	50	0.594	2.02	4.75	1.16	2.83	0.0568	0.309	4.43	0.824	24.7	—	0.634	0.735	-0.432	0.289	2.88	0.977	—		
	800T125-68	0.0713	50	0.748	2.54	6.00	1.45	2.83	0.0703	0.307	5.96	1.22	36.4	—	1.27	0.920	-0.427	0.286	2.88	0.978	—		
	800T125-97	0.1017	50	1.07	3.63	8.62	2.06	2.84	0.0967	0.301	8.61	2.06	69.3	—	3.67	1.30	-0.417	0.279	2.89	0.979	—		
	800T150-33'	0.0346	33	0.380	1.29	3.18	0.781	2.89	0.0600	0.397	2.57	0.414	8.18	—	0.152	0.751	-0.588	0.388	2.98	0.961	—		
	800T150-43	0.0451	33	0.496	1.69	4.15	1.02	2.89	0.0774	0.395	3.69	0.655	12.9	—	0.336	0.972	-0.584	0.386	2.98	0.961	—		
	800T150-54	0.0566	50	0.622	2.12	5.22	1.27	2.90	0.0961	0.393	4.69	0.844	25.3	—	0.664	1.22	-0.580	0.383	2.98	0.962	—		
	800T150-68	0.0713	50	0.783	2.67	6.60	1.60	2.90	0.119	0.390	6.36	1.26	37.6	—	1.33	1.53	-0.575	0.379	2.98	0.963	—		
	800T150-97	0.1017	50	1.12	3.80	9.48	2.27	2.91	0.165	0.385	9.48	2.19	65.6	—	3.85	2.16	-0.564	0.372	2.99	0.965	—		
	800T200-33'	0.0346	33	0.415	1.41	3.75	0.921	3.01	0.135	0.571	2.79	0.424	8.37	—	0.166	1.64	-0.917	0.589	3.19	0.918	—		
	800T200-43	0.0451	33	0.541	1.84	4.89	1.20	3.01	0.175	0.569	4.04	0.676	13.4	—	0.367	2.12	-0.913	0.587	3.19	0.918	—		
	800T200-54	0.0566	50	0.679	2.31	6.15	1.50	3.01	0.218	0.567	5.15	0.872	26.1	—	0.725	2.66	-0.908	0.584	3.20	0.919	—		
	800T200-68	0.0713	50	0.854	2.91	7.79	1.89	3.02	0.272	0.564	7.05	1.31	39.2	—	1.45	3.36	-0.902	0.580	3.20	0.921	—		
	800T200-97	0.1017	50	1.22	4.15	11.2	2.68	3.03	0.379	0.558	10.8	2.35	70.3	—	4.20	4.79	-0.889	0.571	3.21	0.923	—		
	800T300-54	0.0566	50	0.792	2.69	8.03	1.96	3.18	0.674	0.923	6.24	0.956	28.6	—	0.845	7.96	-1.65	1.02	3.70	0.801	—		
	800T300-68	0.0713	50	0.997	3.39	10.17	2.47	3.19	0.844	0.920	8.16	1.55	46.4	—	1.69	10.1	-1.64	1.02	3.71	0.803	—		
	800T300-97	0.1017	50	1.42	4.84	14.7	3.51	3.21	1.19	0.914	12.8	2.59	77.4	—	4.90	14.5	-1.63	1.01	3.72	0.808	—		

*Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming $K\phi=0$.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = $1-(Xo/Ro)^2$
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

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10" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties						Effective Properties				Torsional Properties							Lu (in)
				Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Ry (in)	Ixe (in ⁴)	Sxe (in ³)	Ma (in-k)	Mad (in-k)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	β	
10" Stud	1000S162-43 ¹	0.0451	33	0.627	2.13	8.03	1.61	3.58	0.168	0.518	7.52	1.30	25.7	22.5	0.425	3.43	-0.823	0.545	3.71	0.951	38.8
	1000S162-54	0.0566	50	0.783	2.66	9.95	1.99	3.57	0.204	0.511	9.39	1.57	47.1	40.4	0.836	4.20	-0.812	0.538	3.69	0.952	31.3
	1000S162-68	0.0713	50	0.978	3.33	12.3	2.47	3.55	0.247	0.502	12.0	2.15	64.5	56.4	1.66	5.12	-0.798	0.531	3.67	0.953	31.0
	1000S162-97	0.1017	50	1.37	4.67	17.0	3.39	3.52	0.320	0.483	17.0	3.27	97.9	92.6	4.73	6.83	-0.768	0.514	3.63	0.955	30.4
	1000S200-43 ¹	0.0451	33	0.672	2.29	9.09	1.82	3.68	0.309	0.677	8.60	1.47	29.1	26.2	0.456	6.24	-1.15	0.743	3.91	0.914	49.3
	1000S200-54	0.0566	50	0.839	2.86	11.3	2.26	3.67	0.378	0.671	10.8	1.71	51.1	46.6	0.896	7.67	-1.14	0.737	3.90	0.915	39.8
	1000S200-68	0.0713	50	1.05	3.57	14.0	2.80	3.65	0.460	0.662	13.7	2.42	72.5	64.5	1.78	9.40	-1.12	0.729	3.88	0.917	39.6
	1000S200-97	0.1017	50	1.47	5.02	19.3	3.87	3.62	0.610	0.643	19.3	3.74	112	105	5.08	12.7	-1.09	0.711	3.84	0.920	39.0
	1000S250-43 ¹	0.0451	33	0.717	2.44	10.2	2.04	3.77	0.531	0.860	10.2	1.62	31.9	27.7	0.486	10.5	-1.52	0.965	4.16	0.867	60.7
	1000S250-54	0.0566	50	0.896	3.05	12.7	2.54	3.76	0.653	0.854	12.7	1.88	56.3	49.2	0.957	12.9	-1.50	0.958	4.14	0.868	49.1
	1000S250-68	0.0713	50	1.12	3.81	15.8	3.15	3.75	0.799	0.844	15.7	2.77	82.9	68.2	1.90	15.9	-1.49	0.950	4.12	0.870	48.8
	1000S250-97	0.1017	50	1.58	5.36	21.8	4.37	3.72	1.07	0.825	21.8	4.18	141*	120	5.43	21.6	-1.45	0.932	4.08	0.873	45.6
	1000S300-54	0.0566	50	0.95	3.24	14.1	2.82	3.84	1.02	1.04	13.4	1.90	57.0	50.7	1.02	19.9	-1.89	1.19	4.41	0.816	58.0
	1000S300-68	0.0713	50	1.19	4.06	17.5	3.50	3.83	1.26	1.03	17.1	2.80	83.9	70.4	2.02	24.6	-1.87	1.18	4.39	0.818	57.8
	1000S300-97	0.1017	50	1.68	5.71	24.3	4.86	3.81	1.70	1.01	24.0	4.50	135	116	5.78	33.6	-1.84	1.16	4.35	0.821	57.4
10" Track	1000T125-43 ¹	0.0451	33	0.563	1.92	6.63	1.31	3.43	0.0474	0.290	5.89	0.819	16.2	—	0.382	0.973	-0.379	0.259	3.46	0.988	—
	1000T125-54	0.0566	50	0.707	2.41	8.34	1.63	3.43	0.0587	0.288	7.48	1.06	31.6	—	0.755	1.21	-0.376	0.256	3.47	0.988	—
	1000T125-68	0.0713	50	0.890	3.03	10.5	2.05	3.44	0.0727	0.286	10.2	1.57	47.1	—	1.51	1.51	-0.372	0.253	3.47	0.989	—
	1000T125-97	0.1017	50	1.27	4.32	15.1	2.91	3.45	0.100	0.281	15.1	2.75	82.4	—	4.38	2.12	-0.363	0.247	3.48	0.989	—
	1000T150-43 ¹	0.0451	33	0.586	1.99	7.21	1.42	3.51	0.0804	0.370	6.20	0.837	16.5	—	0.397	1.61	-0.513	0.345	3.56	0.979	—
	1000T150-54	0.0566	50	0.735	2.50	9.06	1.78	3.51	0.100	0.368	7.88	1.08	32.3	—	0.785	2.01	-0.509	0.342	3.57	0.980	—
	1000T150-68	0.0713	50	0.926	3.15	11.4	2.23	3.52	0.124	0.366	10.8	1.62	48.5	—	1.57	2.52	-0.505	0.339	3.57	0.980	—
	1000T150-97	0.1017	50	1.32	4.49	16.4	3.17	3.53	0.172	0.361	16.4	2.90	86.9	—	4.55	3.56	-0.495	0.332	3.58	0.981	—
	1000T200-43 ¹	0.0451	33	0.631	2.15	8.36	1.65	3.64	0.183	0.539	6.72	0.861	17.0	—	0.428	3.54	-0.813	0.534	3.77	0.953	—
	1000T200-54	0.0566	50	0.792	2.69	10.5	2.06	3.65	0.228	0.537	8.56	1.11	33.3	—	0.845	4.43	-0.809	0.531	3.77	0.954	—
	1000T200-68	0.0713	50	0.997	3.39	13.3	2.59	3.65	0.284	0.534	11.8	1.68	50.4	—	1.69	5.58	-0.803	0.527	3.78	0.955	—
	1000T200-97	0.1017	50	1.42	4.84	19.1	3.69	3.66	0.397	0.528	18.6	3.08	92.3	—	4.90	7.92	-0.791	0.519	3.79	0.956	—
	1000T300-54	0.0566	50	0.905	3.08	13.4	2.63	3.85	0.714	0.888	10.8	1.19	35.7	—	0.966	13.3	-1.50	0.947	4.23	0.874	—
	1000T300-68	0.0713	50	1.14	3.88	17.0	3.32	3.86	0.893	0.885	14.1	1.90	57.0	—	1.93	16.8	-1.49	0.943	4.23	0.876	—
	1000T300-97	0.1017	50	1.62	5.53	24.4	4.72	3.88	1.26	0.879	21.5	3.59	107	—	5.60	24.0	-1.48	0.934	4.24	0.879	—

¹Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
Sx = Section Modulus about the x-axis.
Rx = Radius of Gyration of cross-section about the x-axis.
Iy = Moment of Inertia of cross-section about the y-axis.
Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
Sxe = Effective Section Modulus about the x-axis.
Ma = Allowable Moment based on local buckling.
Mad = Allowable Moment based on distortional buckling, assuming Kφ=0.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
Cw = Warping Torsion Constant.
Xo = Distance from shear center to the centroid along the principal axis.
m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
Beta = 1-(Xo/Ro)²
Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

Complies with AISI S100-12 • IBC 2015

12" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties						Effective Properties				Torsional Properties						Lu (in)	
				Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Ry (in)	Ixe (in ⁴)	Sxe (in ³)	Ma (in-k)	Mad (in-k)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)		β
12" Stud	1200S162-54 ¹	0.0566	50	0.896	3.05	15.7	2.62	4.19	0.212	0.486	14.3	1.91	57.3	46.8	0.957	6.34	-0.732	0.493	4.28	0.971	30.5
	1200S162-68	0.0713	50	1.12	3.81	19.5	3.25	4.17	0.255	0.477	18.4	2.65	79.2	66.2	1.90	7.74	-0.719	0.485	4.26	0.972	30.2
	1200S162-97	0.1017	50	1.58	5.36	27.0	4.50	4.14	0.332	0.459	26.7	4.09	122	111	5.43	10.3	-0.691	0.470	4.22	0.973	29.5
	1200S200-54 ¹	0.0566	50	0.953	3.24	17.7	2.94	4.31	0.394	0.643	16.3	2.07	62.1	54.8	1.02	11.6	-1.03	0.681	4.48	0.947	39.0
	1200S200-68	0.0713	50	1.19	4.06	22.0	3.66	4.29	0.479	0.634	20.9	2.96	88.7	76.6	2.02	14.2	-1.02	0.673	4.46	0.948	38.7
	1200S200-97	0.1017	50	1.68	5.71	30.4	5.07	4.26	0.635	0.615	30.2	4.66	140	127	5.78	19.1	-0.987	0.656	4.41	0.950	38.1
	1200S250-54 ¹	0.0566	50	1.01	3.43	19.7	3.28	4.42	0.683	0.823	18.4	2.15	64.3	58.4	1.08	19.5	-1.38	0.892	4.70	0.914	48.3
	1200S250-68	0.0713	50	1.26	4.30	24.5	4.08	4.40	0.836	0.813	23.6	3.01	90.0	81.6	2.14	24.0	-1.36	0.884	4.68	0.915	48.1
	1200S250-97	0.1017	50	1.78	6.05	34.0	5.67	4.37	1.12	0.794	33.8	5.04	151	135	6.13	32.7	-1.33	0.867	4.64	0.918	47.5
	1200S300-54 ¹	0.0566	50	1.07	3.63	21.7	3.62	4.51	1.07	1.00	21.0	2.27	68.0	60.7	1.14	30.1	-1.74	1.11	4.94	0.876	57.4
1200S300-68	0.0713	50	1.33	4.54	27.0	4.50	4.50	1.32	0.994	26.5	3.32	99.3	84.8	2.26	37.1	-1.73	1.10	4.92	0.877	57.2	
1200S300-97	0.1017	50	1.88	6.40	37.6	6.27	4.47	1.79	0.975	37.1	5.83	175	141	6.48	50.9	-1.69	1.08	4.88	0.880	56.7	
12" Track	1200T125-54 ¹	0.0566	50	0.820	2.79	13.3	2.19	4.03	0.0601	0.271	11.5	1.29	38.5	—	0.88	1.82	-0.333	0.230	4.06	0.993	—
	1200T125-68	0.0713	50	1.03	3.51	16.8	2.75	4.04	0.0744	0.268	15.7	1.93	57.9	—	1.75	2.27	-0.329	0.227	4.06	0.993	—
	1200T125-97	0.1017	50	1.47	5.01	24.1	3.90	4.04	0.102	0.264	23.8	3.44	103	—	5.08	3.17	-0.322	0.222	4.07	0.994	—
	1200T150-54 ¹	0.0566	50	0.848	2.89	14.4	2.36	4.12	0.103	0.348	12.0	1.31	39.3	—	0.91	3.03	-0.454	0.310	4.16	0.988	—
	1200T150-68	0.0713	50	1.07	3.64	18.2	2.96	4.12	0.127	0.345	16.6	1.99	59.5	—	1.81	3.79	-0.450	0.307	4.16	0.988	—
	1200T150-97	0.1017	50	1.52	5.18	26.0	4.21	4.13	0.176	0.340	25.7	3.62	108	—	5.25	5.33	-0.441	0.301	4.17	0.989	—
	1200T200-54 ¹	0.0566	50	0.905	3.08	16.5	2.70	4.27	0.236	0.510	13.0	1.35	40.4	—	0.97	6.71	-0.730	0.487	4.36	0.972	—
	1200T200-68	0.0713	50	1.14	3.88	20.8	3.40	4.27	0.294	0.508	18.0	2.06	61.6	—	1.93	8.43	-0.725	0.483	4.36	0.972	—
	1200T200-97	0.1017	50	1.62	5.53	29.8	4.83	4.28	0.410	0.502	29.0	3.82	114	—	5.60	11.9	-0.714	0.476	4.37	0.973	—
	1200T300-54 ¹	0.0566	50	1.02	3.46	20.6	3.38	4.50	0.745	0.855	14.5	1.39	41.7	—	1.09	20.2	-1.37	0.884	4.79	0.917	—
	1200T300-68	0.0713	50	1.28	4.36	26.1	4.26	4.51	0.932	0.852	20.3	2.14	64.1	—	2.17	25.5	-1.37	0.880	4.79	0.918	—
	1200T300-97	0.1017	50	1.83	6.22	37.5	6.06	4.53	1.31	0.847	33.4	4.05	121	—	6.30	36.4	-1.36	0.871	4.80	0.920	—

¹Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming $K\phi=0$.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = $1-(Xo/Ro)^2$
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

Complies with AISI S100-12 • IBC 2015

14" STUD/TRACK PROPERTIES

	Member	Design thickness (in)	Yield strength Fy (ksi)	Gross Properties							Effective Properties				Torsional Properties							Lu (in)
				Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ixe (in⁴)	Sxe (in³)	Ma (in-k)	Mad (in-k)	Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	m (in)	Ro (in)	β		
14" Stud	1400S162-54¹	0.0566	50	1.01	3.43	23.3	3.33	4.81	0.218	0.464	20.4	2.26	67.5	52.2	1.08	8.98	-0.667	0.454	4.87	0.981	29.7	
	1400S162-68	0.0713	50	1.26	4.30	29.0	4.14	4.79	0.262	0.456	26.4	3.13	93.9	74.6	2.14	11.0	-0.654	0.447	4.85	0.982	29.4	
	1400S162-97	0.1017	50	1.78	6.05	40.1	5.73	4.75	0.341	0.438	38.9	4.91	147	128	6.13	14.7	-0.628	0.433	4.81	0.983	28.7	
	1400S200-54¹	0.0566	50	1.07	3.63	26.0	3.71	4.94	0.406	0.617	23.2	2.44	73.1	61.7	1.14	16.4	-0.946	0.633	5.06	0.965	38.2	
	1400S200-68	0.0713	50	1.33	4.54	32.3	4.61	4.92	0.494	0.608	29.8	3.50	105	87.2	2.26	20.1	-0.932	0.625	5.04	0.966	37.9	
	1400S200-97	0.1017	50	1.88	6.40	44.9	6.41	4.88	0.655	0.590	43.6	5.58	167	147	6.48	27.2	-0.904	0.609	5.00	0.967	37.3	
	1400S250-54¹	0.0566	50	1.12	3.82	28.7	4.10	5.06	0.707	0.794	26.1	2.53	75.7	66.6	1.20	27.7	-1.27	0.835	5.28	0.942	47.6	
	1400S250-68	0.0713	50	1.41	4.78	35.8	5.11	5.04	0.865	0.784	33.6	3.55	106	93.8	2.38	34.1	-1.26	0.827	5.26	0.943	47.3	
	1400S250-97	0.1017	50	1.98	6.75	49.8	7.11	5.01	1.16	0.765	48.7	6.01	180	158	6.84	46.5	-1.23	0.811	5.22	0.945	46.7	
	1400S300-54¹	0.0566	50	1.18	4.01	31.5	4.49	5.17	1.11	0.972	27.2	2.58	77.3	69.9	1.26	42.7	-1.62	1.05	5.50	0.914	56.8	
1400S300-68	0.0713	50	1.48	5.03	39.2	5.60	5.15	1.37	0.963	36.3	3.66	109	98.3	2.50	52.8	-1.60	1.04	5.48	0.915	56.5		
1400S300-97	0.1017	50	2.08	7.09	54.7	7.81	5.12	1.85	0.943	53.2	6.37	191	166	7.19	72.4	-1.57	1.02	5.44	0.917	55.9		
14" Track	1400T125-54¹	0.0566	50	0.933	3.18	20.0	2.82	4.63	0.0611	0.256	16.4	1.52	45.4	—	1.00	2.56	-0.299	0.209	4.64	1.00	—	
	1400T125-68	0.0713	50	1.18	4.00	25.2	3.54	4.63	0.0757	0.254	22.6	2.29	68.6	—	1.99	3.19	-0.296	0.206	4.65	1.00	—	
	1400T125-97	0.1017	50	1.68	5.70	36.0	5.02	4.64	0.104	0.249	34.6	4.13	124	—	5.78	4.44	-0.289	0.201	4.65	1.00	—	
	1400T150-54¹	0.0566	50	0.962	3.27	21.4	3.01	4.72	0.105	0.330	17.2	1.55	46.3	—	1.03	4.28	-0.410	0.283	4.75	0.993	—	
	1400T150-68	0.0713	50	1.21	4.12	27.0	3.79	4.72	0.130	0.328	23.8	2.35	70.4	—	2.05	5.35	-0.407	0.280	4.75	0.993	—	
	1400T150-97	0.1017	50	1.73	5.88	38.6	5.38	4.73	0.180	0.323	37.3	4.33	130	—	5.95	7.50	-0.399	0.275	4.76	0.993	—	
	1400T200-54¹	0.0566	50	1.02	3.46	24.2	3.41	4.88	0.242	0.487	18.4	1.59	47.6	—	1.09	9.52	-0.665	0.449	4.95	0.982	—	
	1400T200-68	0.0713	50	1.28	4.36	30.6	4.29	4.88	0.301	0.485	25.7	2.43	72.8	—	2.17	11.9	-0.661	0.446	4.95	0.982	—	
	1400T200-97	0.1017	50	1.83	6.22	43.8	6.10	4.89	0.420	0.479	41.8	4.56	136	—	6.30	16.9	-0.651	0.439	4.96	0.983	—	
	1400T300-54¹	0.0566	50	1.13	3.85	29.9	4.21	5.14	0.769	0.825	20.3	1.64	49.0	—	1.21	28.8	-1.27	0.829	5.36	0.944	—	
	1400T300-68	0.0713	50	1.42	4.85	37.7	5.30	5.15	0.962	0.822	28.8	2.52	75.5	—	2.41	36.3	-1.26	0.825	5.36	0.944	—	
	1400T300-97	0.1017	50	2.03	6.91	54.1	7.54	5.16	1.35	0.816	47.6	4.82	144	—	7.00	51.6	-1.25	0.817	5.37	0.946	—	

¹Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

*Allowable moment includes cold work of forming.

Gross Properties:

Ix = Moment of Inertia of cross-section about the x-axis.
 Sx = Section Modulus about the x-axis.
 Rx = Radius of Gyration of cross-section about the x-axis.
 Iy = Moment of Inertia of cross-section about the y-axis.
 Ry = Radius of Gyration of cross-section about the y-axis.

Effective Properties:

Ixe = Effective Moment of Inertia of cross-section about the x-axis.
 Sxe = Effective Section Modulus about the x-axis.
 Ma = Allowable Moment based on local buckling.
 Mad = Allowable Moment based on distortional buckling, assuming $K\phi=0$.

Torsional and Other Properties:

J = St. Venant Torsional Constant. The values of J shown in the tables have been factored by 1000.
 Cw = Warping Torsion Constant.
 Xo = Distance from shear center to the centroid along the principal axis.
 m = Distance from shear center to mid-plane of web.

Ro = Polar Radius of Gyration of cross-section about the shear center.
 Beta = $1-(Xo/Ro)^2$
 Lu = Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than Lu.

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ALLOWABLE STUD SHEAR (LBS)

Member		Solid Section	Perforated Section
Size (in)	mil (ksi)		
2.5	33 (33)	975	399
	43 (33)	1265	394
	54 (50)	2353	565
	68 (50)	2866	519
3.5	33 (33)	1024	487
	43 (33)	1739	631
	54 (50)	3372	947
	68 (50)	4203	897
3.625	33 (33)	1024	521
	43 (33)	1739	676
	54 (50)	3372	1016
	68 (50)	4370	1004
4	33 (33)	976	595
	43 (33)	1739	810
	54 (50)	3372	1223
	68 (50)	4871	1356
5.5	33 (33)	6658	1207
	43 (33)	976	699
	54 (50)	1550	1199
	68 (50)	3093	1881
6	33 (33)	5350	2532
	43 (33)	9518	3026
	54 (50)	975	399
	68 (50)	1265	394
8	33 (33)	2353	565
	43 (33)	2866	519
	54 (50)	2823	1947
	68 (50)	5350	2879
10	33 (33)	10472	3806
	43 (33)	474	—
	54 (50)	1051	1051
	68 (50)	2091	2091
12	33 (33)	4221	3367
	43 (33)	10885	5938
	54 (50)	836	—
	68 (50)	1661	1661
14	33 (33)	3345	3345
	43 (33)	9864	7177
	54 (50)	1377	—
	68 (50)	2771	2771
16	33 (33)	8147	7411
	43 (33)	1177	—
	54 (50)	2365	2365
	68 (50)	6939	6939

ALLOWABLE TRACK SHEAR (LBS)

Member		Solid Section
Size (in)	mil (ksi)	
2.5	33 (33)	1024
	43 (33)	1356
	54 (50)	2563
	68 (50)	3199
3.5	33 (33)	1024
	43 (33)	1739
	54 (50)	3372
	68 (50)	4536
3.625	33 (33)	1024
	43 (33)	1739
	54 (50)	3372
	68 (50)	4703
4	33 (33)	940
	43 (33)	1739
	54 (50)	3372
	68 (50)	5205
5.5	33 (33)	7337
	43 (33)	680
	54 (50)	1504
	68 (50)	2980
6	33 (33)	622
	43 (33)	1377
	54 (50)	2728
	68 (50)	5350
8	33 (33)	10885
	43 (33)	465
	54 (50)	1030
	68 (50)	2039
10	33 (33)	4087
	43 (33)	10885
	54 (50)	822
	68 (50)	1628
12	33 (33)	3261
	43 (33)	9507
	54 (50)	1354
	68 (50)	2713
14	33 (33)	7902
	43 (33)	1160
	54 (50)	2322
	68 (50)	6761
16	33 (33)	10197
	43 (33)	1504
	54 (50)	2980
	68 (50)	5350

¹ Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

Notes for Allowable Stud Shear:

¹ Capacities are calculated per AISI S100-12.

² For perforated sections, the standard ClarkDietrich oval knockout of 1-1/2" (3/4" for 2-1/2" & 3-1/2" webs) x 4" is used.

Complies with AISI S100-12 • IBC 2015



ALLOWABLE WALL HEIGHT TABLES

INTERIOR WALL HEIGHTS

With structural framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
250S137-33	12	17' 6"	13' 10"	12' 1"
	16	15' 10"	12' 7"	11' 0"
	24	13' 10"	11' 0"	9' 7"
250S137-43	12	19' 0"	15' 1"	13' 2"
	16	17' 3"	13' 8"	11' 11"
	24	15' 1"	11' 11"	10' 5"
250S137-54	12	20' 3"	16' 1"	14' 1"
	16	18' 5"	14' 8"	12' 9"
	24	16' 1"	12' 9"	11' 2"
250S137-68	12	21' 8"	17' 2"	15' 0"
	16	19' 8"	15' 7"	13' 8"
	24	17' 2"	13' 8"	11' 11"
250S162-33	12	18' 4"	14' 7"	12' 9"
	16	16' 8"	13' 3"	11' 7"
	24	14' 7"	11' 7"	10' 1"
250S162-43	12	19' 11"	15' 10"	13' 10"
	16	18' 1"	14' 4"	12' 7"
	24	15' 10"	12' 7"	11' 0"
250S162-54	12	21' 4"	16' 11"	14' 9"
	16	19' 4"	15' 5"	13' 5"
	24	16' 11"	13' 5"	11' 9"
250S162-68	12	22' 9"	18' 1"	15' 9"
	16	20' 8"	16' 5"	14' 4"
	24	18' 1"	14' 4"	12' 6"

2-1/2" Structural Framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
250S200-33	12	19' 4"	15' 4"	13' 5"
	16	17' 7"	13' 11"	12' 2"
	24	15' 4"	12' 2"	10' 8"
250S200-43	12	21' 1"	16' 9"	14' 8"
	16	19' 2"	15' 3"	13' 4"
	24	16' 9"	13' 4"	11' 7"
250S200-54	12	22' 7"	17' 11"	15' 8"
	16	20' 6"	16' 4"	14' 3"
	24	17' 11"	14' 3"	12' 5"
250S200-68	12	24' 2"	19' 2"	16' 9"
	16	21' 11"	17' 5"	15' 3"
	24	19' 2"	15' 3"	13' 4"
250S250-43	12	22' 4"	17' 9"	15' 6"
	16	20' 4"	16' 1"	14' 1"
	24	17' 9"	14' 1"	12' 4"
250S250-54	12	23' 11"	19' 0"	16' 7"
	16	21' 9"	17' 3"	15' 1"
	24	19' 0"	15' 1"	13' 2"
250S250-68	12	25' 8"	20' 4"	17' 9"
	16	23' 4"	18' 6"	16' 2"
	24	20' 4"	16' 2"	14' 1"

2-1/2" Structural Framing

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e," web stiffeners are required.
- 6 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

Complies with AISI S100-12 • IBC 2015

INTERIOR WALL HEIGHTS

With structural framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
350S137-33	12	22' 7"	17' 11"	15' 8"
	16	20' 7"	16' 4"	14' 3"
	24	17' 2"	14' 3"	12' 5"
350S137-43	12	24' 7"	19' 6"	17' 1"
	16	22' 4"	17' 9"	15' 6"
	24	19' 6"	15' 6"	13' 6"
350S137-54	12	26' 4"	20' 11"	18' 3"
	16	23' 11"	19' 0"	16' 7"
	24	20' 11"	16' 7"	14' 6"
350S137-68	12	28' 2"	22' 4"	19' 6"
	16	25' 7"	20' 3"	17' 9"
	24	22' 4"	17' 9"	15' 6"
350S162-33	12	23' 9"	18' 10"	16' 5"
	16	21' 7"	17' 1"	14' 11"
	24	18' 5"	14' 11"	13' 1"
350S162-43	12	25' 10"	20' 6"	17' 11"
	16	23' 5"	18' 7"	16' 3"
	24	20' 6"	16' 3"	14' 2"
350S162-54	12	27' 8"	21' 11"	19' 2"
	16	25' 1"	19' 11"	17' 5"
	24	21' 11"	17' 5"	15' 2"
350S162-68	12	29' 7"	23' 6"	20' 6"
	16	26' 10"	21' 4"	18' 7"
	24	23' 6"	18' 7"	16' 3"

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
350S200-33	12	24' 11"	19' 10"	17' 4"
	16	22' 8"	18' 0"	15' 9"
	24	19' 4"	15' 9"	13' 9"
350S200-43	12	27' 3"	21' 8"	18' 11"
	16	24' 9"	19' 8"	17' 2"
	24	21' 8"	17' 2"	15' 0"
350S200-54	12	29' 3"	23' 2"	20' 3"
	16	26' 6"	21' 1"	18' 5"
	24	23' 2"	18' 5"	16' 1"
350S200-68	12	31' 3"	24' 10"	21' 8"
	16	28' 5"	22' 7"	19' 8"
	24	24' 10"	19' 8"	17' 3"
350S250-43	12	28' 9"	22' 10"	19' 11"
	16	26' 1"	20' 9"	18' 1"
	24	22' 10"	18' 1"	15' 10"
350S250-54	12	30' 9"	24' 5"	21' 4"
	16	27' 11"	22' 2"	19' 4"
	24	24' 5"	19' 4"	16' 11"
350S250-68	12	33' 1"	26' 3"	22' 11"
	16	30' 0"	23' 10"	20' 10"
	24	26' 3"	20' 10"	18' 2"

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.

- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e," web stiffeners are required.
- 6 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.

- 8 Capacities are calculated according to the AISI-NASPEC S100-12. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

Complies with AISI S100-12 • IBC 2015

INTERIOR WALL HEIGHTS

With structural framing

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

3-5/8" Structural Framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
362S200-33	12	25' 8"	20' 4"	17' 9"
	16	23' 3"	18' 6"	16' 2"
	24	19' 8"	16' 2"	14' 1"
362S200-43	12	28' 0"	22' 3"	19' 5"
	16	25' 5"	20' 2"	17' 8"
	24	22' 3"	17' 8"	15' 5"
362S200-54	12	30' 0"	23' 10"	20' 10"
	16	27' 3"	21' 8"	18' 11"
	24	23' 10"	18' 11"	16' 6"
362S200-68	12	32' 2"	25' 6"	22' 3"
	16	29' 2"	23' 2"	20' 3"
	24	25' 6"	20' 3"	17' 8"
362S200-97	12	35' 6"	28' 3"	24' 8"
	16	32' 3"	25' 8"	22' 5"
	24	28' 3"	22' 5"	19' 7"
362S250-43	12	29' 6"	23' 5"	20' 6"
	16	26' 10"	21' 3"	18' 7"
	24	23' 5"	18' 7"	16' 3"
362S250-54	12	31' 7"	25' 1"	21' 11"
	16	28' 8"	22' 9"	19' 11"
	24	25' 1"	19' 11"	17' 4"
362S250-68	12	33' 11"	26' 11"	23' 6"
	16	30' 10"	24' 6"	21' 5"
	24	26' 11"	21' 5"	18' 8"
362S250-97	12	37' 7"	29' 10"	26' 1"
	16	34' 2"	27' 1"	23' 8"
	24	29' 10"	23' 8"	20' 8"

3-5/8" Structural Framing

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- A 1/3 stress increase is not used.
- Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- Listed limiting heights are based on steel properties only.
- Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e," web stiffeners are required.
- Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

Complies with AISI S100-12 • IBC 2015

INTERIOR WALL HEIGHTS

With structural framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
400S137-33	12	25' 1"	19' 11"	17' 5"
	16	22' 7"	18' 1"	15' 10"
	24	18' 6"	15' 10"	13' 10"
400S137-43	12	27' 4"	21' 8"	18' 11"
	16	24' 10"	19' 8"	17' 2"
	24	21' 8"	17' 2"	15' 0"
400S137-54	12	29' 3"	23' 2"	20' 3"
	16	26' 7"	21' 1"	18' 5"
	24	23' 2"	18' 5"	16' 1"
400S137-68	12	31' 3"	24' 10"	21' 8"
	16	28' 5"	22' 7"	19' 8"
	24	24' 10"	19' 8"	17' 2"
400S137-97	12	34' 5"	27' 4"	23' 11"
	16	31' 3"	24' 10"	21' 8"
	24	27' 4"	21' 8"	18' 11"
400S162-33	12	26' 3"	20' 10"	18' 3"
	16	23' 11"	18' 11"	16' 7"
	24	19' 10"	16' 7"	14' 6"
400S162-43	12	28' 7"	22' 8"	19' 10"
	16	26' 0"	20' 7"	18' 0"
	24	22' 8"	18' 0"	15' 9"
400S162-54	12	30' 8"	24' 4"	21' 3"
	16	27' 10"	22' 1"	19' 4"
	24	24' 4"	19' 4"	16' 10"
400S162-68	12	32' 10"	26' 0"	22' 9"
	16	29' 10"	23' 8"	20' 8"
	24	26' 0"	20' 8"	18' 1"
400S162-97	12	36' 3"	28' 9"	25' 1"
	16	32' 11"	26' 1"	22' 10"
	24	28' 9"	22' 10"	19' 11"

4" Structural Framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
400S200-33	12	27' 8"	21' 11"	19' 2"
	16	25' 1"	19' 11"	17' 5"
	24	20' 10"	17' 5"	15' 2"
400S200-43	12	30' 2"	23' 11"	20' 11"
	16	27' 5"	21' 9"	19' 0"
	24	23' 11"	19' 0"	16' 7"
400S200-54	12	32' 4"	25' 8"	22' 5"
	16	29' 5"	23' 4"	20' 5"
	24	25' 8"	20' 5"	17' 10"
400S200-68	12	34' 8"	27' 6"	24' 0"
	16	31' 6"	25' 0"	21' 10"
	24	27' 6"	21' 10"	19' 1"
400S200-97	12	38' 5"	30' 6"	26' 7"
	16	34' 10"	27' 8"	24' 2"
	24	30' 6"	24' 2"	21' 1"
400S250-43	12	31' 9"	25' 3"	22' 0"
	16	28' 10"	22' 11"	20' 0"
	24	25' 3"	20' 0"	17' 6"
400S250-54	12	34' 0"	27' 0"	23' 7"
	16	30' 10"	24' 6"	21' 5"
	24	27' 0"	21' 5"	18' 8"
400S250-68	12	36' 7"	29' 0"	25' 4"
	16	33' 3"	26' 4"	23' 0"
	24	29' 0"	23' 0"	20' 1"
400S250-97	12	40' 7"	32' 2"	28' 1"
	16	36' 10"	29' 3"	25' 7"
	24	32' 2"	25' 7"	22' 4"

4" Structural Framing

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.

- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.

- 8 Capacities are calculated according to the AISI-NASPEC S100-12. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

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INTERIOR WALL HEIGHTS

With structural framing

	Member	Spacing (in) o.c.	Spsf		
			L/120	L/240	L/360
5-1/2" Structural Framing	550S162-33	12	33' 8"	26' 9"	23' 4"
		16	29' 5"	24' 4"	21' 3"
		24	24' 0"	21' 3"	18' 6"
	550S162-43	12	36' 8"	29' 1"	25' 5"
		16	33' 4"	26' 5"	23' 1"
		24	29' 1"	23' 1"	20' 2"
	550S162-54	12	39' 4"	31' 3"	27' 3"
		16	35' 9"	28' 5"	24' 9"
		24	31' 3"	24' 9"	21' 8"
	550S162-68	12	42' 2"	33' 6"	29' 3"
		16	38' 4"	30' 5"	26' 7"
		24	33' 6"	26' 7"	23' 3"
	550S162-97	12	46' 9"	37' 1"	32' 5"
		16	42' 5"	33' 8"	29' 5"
		24	37' 1"	29' 5"	25' 8"

	Member	Spacing (in) o.c.	Spsf		
			L/120	L/240	L/360
5-1/2" Structural Framing	550S200-33	12	35' 4"	28' 0"	24' 6"
		16	31' 4"	25' 5"	22' 3"
		24	25' 7"	22' 3"	19' 5"
	550S200-43	12	38' 7"	30' 7"	26' 9"
		16	35' 1"	27' 10"	24' 4"
		24	30' 6"	24' 4"	21' 3"
	550S200-54	12	41' 5"	32' 10"	28' 8"
		16	37' 7"	29' 10"	26' 1"
		24	32' 10"	26' 1"	22' 9"
	550S200-68	12	44' 5"	35' 3"	30' 10"
		16	40' 4"	32' 0"	28' 0"
		24	35' 3"	28' 0"	24' 5"
	550S200-97	12	49' 3"	39' 1"	34' 2"
		16	44' 9"	35' 6"	31' 1"
		24	39' 1"	31' 1"	27' 1"
	550S250-43	12	40' 5"	32' 1"	28' 1"
		16	36' 9"	29' 2"	25' 6"
		24	31' 4"	25' 6"	22' 3"
	550S250-54	12	43' 3"	34' 4"	30' 0"
		16	39' 3"	31' 2"	27' 3"
		24	34' 4"	27' 3"	23' 10"
	550S250-68	12	46' 7"	37' 0"	32' 4"
		16	42' 4"	33' 7"	29' 4"
		24	37' 0"	29' 4"	25' 8"
	550S250-97	12	51' 10"	41' 2"	35' 11"
		16	47' 1"	37' 4"	32' 8"
		24	41' 2"	32' 8"	28' 6"

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e," web stiffeners are required.
- 6 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

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INTERIOR WALL HEIGHTS

With structural framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
600S137-33	12	33' 1"	27' 3"	23' 10"
	16	28' 7"	24' 9"	21' 8"
	24	23' 4"	21' 8"	18' 11"
600S137-43	12	37' 8"	29' 11"	26' 2"
	16	34' 3"	27' 2"	23' 9"
	24	28' 1"	23' 9"	20' 9"
600S137-54	12	40' 5"	32' 1"	28' 0"
	16	36' 9"	29' 2"	25' 6"
	24	32' 1"	25' 6"	22' 3"
600S137-68	12	43' 4"	34' 4"	30' 0"
	16	39' 4"	31' 3"	27' 3"
	24	34' 4"	27' 3"	23' 10"
600S137-97	12	47' 11"	38' 0"	33' 2"
	16	43' 6"	34' 6"	30' 2"
	24	38' 0"	30' 2"	26' 4"
600S162-33	12	35' 6"	28' 8"	25' 0"
	16	30' 9"	26' 0"	22' 9"
	24	25' 2"	22' 9"	19' 10"
600S162-43	12	39' 4"	31' 2"	27' 3"
	16	35' 9"	28' 4"	24' 9"
	24	31' 1"	24' 9"	21' 8"
600S162-54	12	42' 2"	33' 6"	29' 3"
	16	38' 4"	30' 5"	26' 7"
	24	33' 6"	26' 7"	23' 3"
600S162-68	12	45' 3"	35' 11"	31' 4"
	16	41' 1"	32' 7"	28' 6"
	24	35' 11"	28' 6"	24' 11"
600S162-97	12	50' 1"	39' 9"	34' 9"
	16	45' 6"	36' 2"	31' 7"
	24	39' 9"	31' 7"	27' 7"

6" Structural Framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
600S200-33	12	37' 9"	30' 0"	26' 2"
	16	32' 10"	27' 3"	23' 10"
	24	26' 10"	23' 10"	20' 10"
600S200-43	12	41' 3"	32' 9"	28' 7"
	16	37' 6"	29' 9"	26' 0"
	24	32' 0"	26' 0"	22' 9"
600S200-54	12	44' 4"	35' 2"	30' 9"
	16	40' 3"	32' 0"	27' 11"
	24	35' 2"	27' 11"	24' 5"
600S200-68	12	47' 7"	37' 9"	33' 0"
	16	43' 2"	34' 4"	29' 11"
	24	37' 9"	29' 11"	26' 2"
600S200-97	12	52' 10"	41' 11"	36' 7"
	16	48' 0"	38' 1"	33' 3"
	24	41' 11"	33' 3"	29' 1"
600S250-43	12	43' 3"	34' 4"	30' 0"
	16	39' 3"	31' 2"	27' 3"
	24	32' 11"	27' 3"	23' 10"
600S250-54	12	46' 3"	36' 8"	32' 1"
	16	42' 0"	33' 4"	29' 1"
	24	36' 8"	29' 1"	25' 5"
600S250-68	12	49' 10"	39' 7"	34' 7"
	16	45' 3"	35' 11"	31' 5"
	24	39' 7"	31' 5"	27' 5"
600S250-97	12	55' 5"	44' 0"	38' 5"
	16	50' 4"	40' 0"	34' 11"
	24	44' 0"	34' 11"	30' 6"

6" Structural Framing

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.

- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.

- 8 Capacities are calculated according to the AISI-NASPEC S100-12. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

Complies with AISI S100-12 • IBC 2015

INTERIOR WALL HEIGHTS

With structural framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
800S137-33	12	37' 10" e	34' 0" e	29' 8" e
	16	32' 9" e	30' 11" e	27' 0" e
	24	26' 9" e	26' 9" e	23' 7" e
800S137-43	12	45' 11"	37' 5"	32' 8"
	16	39' 9"	34' 0"	29' 9"
	24	32' 5"	29' 9"	25' 11"
800S137-54	12	50' 9"	40' 3"	35' 2"
	16	46' 1"	36' 7"	31' 11"
	24	40' 3"	31' 11"	27' 11"
800S137-68	12	54' 10"	43' 6"	38' 0"
	16	49' 10"	39' 6"	34' 6"
	24	43' 6"	34' 6"	30' 2"
800S137-97	12	60' 10"	48' 4"	42' 2"
	16	55' 4"	43' 11"	38' 4"
	24	48' 4"	38' 4"	33' 6"
800S162-33	12	41' 0" e	35' 5" e	30' 11" e
	16	35' 6" e	32' 2" e	28' 1" e
	24	29' 0" e	28' 1" e	24' 7" e
800S162-43	12	49' 1"	38' 11"	34' 0"
	16	42' 10"	35' 4"	30' 11"
	24	35' 0"	30' 11"	27' 0"
800S162-54	12	52' 9"	41' 10"	36' 7"
	16	47' 11"	38' 1"	33' 3"
	24	41' 10"	33' 3"	29' 0"
800S162-68	12	57' 0"	45' 3"	39' 6"
	16	51' 10"	41' 1"	35' 11"
	24	45' 3"	35' 11"	31' 5"
800S162-97	12	63' 5"	50' 4"	43' 11"
	16	57' 7"	45' 9"	39' 11"
	24	50' 4"	39' 11"	34' 11"

8" Structural Framing

Member	Spacing (in) o.c.	Spsf		
		L/120	L/240	L/360
800S200-33	12	44' 0" e	37' 9" e	33' 0" e
	16	38' 1" e	34' 3" e	29' 11" e
	24	31' 1" e	29' 11" e	26' 2" e
800S200-43	12	51' 10"	41' 1"	35' 11"
	16	45' 10"	37' 4"	32' 8"
	24	37' 5"	32' 8"	28' 6"
800S200-54	12	55' 8"	44' 2"	38' 7"
	16	50' 7"	40' 2"	35' 1"
	24	44' 2"	35' 1"	30' 8"
800S200-68	12	59' 9"	47' 5"	41' 5"
	16	54' 4"	43' 1"	37' 8"
	24	47' 5"	37' 8"	32' 11"
800S200-97	12	66' 6"	52' 9"	46' 1"
	16	60' 5"	47' 11"	41' 11"
	24	52' 9"	41' 11"	36' 7"
800S250-43	12	54' 0"	42' 11"	37' 6"
	16	47' 0"	39' 0"	34' 0"
	24	38' 4"	34' 0"	29' 9"
800S250-54	12	57' 10"	45' 11"	40' 1"
	16	52' 7"	41' 8"	36' 5"
	24	45' 11"	36' 5"	31' 10"
800S250-68	12	62' 4"	49' 6"	43' 3"
	16	56' 8"	44' 11"	39' 3"
	24	49' 6"	39' 3"	34' 4"
800S250-97	12	69' 6"	55' 2"	48' 2"
	16	63' 2"	50' 1"	43' 9"
	24	55' 2"	43' 9"	38' 3"

8" Structural Framing

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" by 4" for 2-1/2" studs.)
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design 2007 Edition.

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Exterior curtain wall overview

Load/Span Table Wind Pressure Notes.

IBC 2015/ASCE 7-10 only

Due to changes in the model building codes, design wind pressures determined using IBC 2015/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 2015/ASCE 7-10 design wind pressures by 0.6 (reference section 2.4 ASCE 7-10) prior to entering the load/span tables.

Example:

- ASCE 7-10 Calculated Design Wind Pressure = 16psf (strength level loads, LRFD)
- Convert to service level load (ASD) = 16psf x 0.6 = 10psf
- Use 10psf as the Pressure Value used in this table to determine the member span

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.

Allowable wall heights—curtain wall framing.

Exterior curtain walls must be designed to withstand the highest winds anticipated for the particular construction location. Wind pressures can be found in the project's structural drawings under the "general notes" section. Please contact technical services at 888-437-3244 for help converting wind speeds (mph) to wind loads (psf).

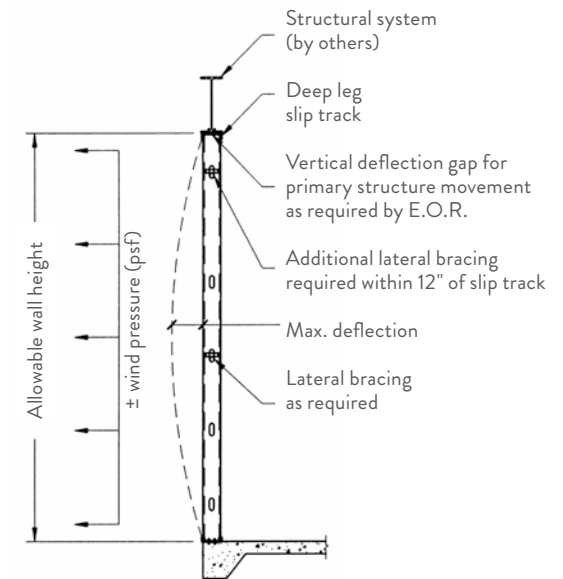
The tables on the following pages provide allowable height limitations for exterior curtain walls subjected to lateral transverse loads. Members shown vary in depth, flange width and steel thickness. Select the studs that are right for your application, also taking into account the acceptable deflection level.

General Notes:

- 1 Lateral loads have been multiplied by 0.7 for deflection determination per IBC 2015 Table 1604.3.
- 2 The strength increase due to cold work of forming was incorporated for flexural strength as applicable per section A7.2 of AISI-NASPEC, 2012.
- 3 Limiting heights based on continuous support of each flange over the full length of the stud.
- 4 Heights based on steel properties only (i.e., composite wall considerations not included in the deflection calculations).
- 5 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 6 Adding additional horizontal bridging will not reduce the actual deflection in the wall. To reduce the deflection of a wall stud, either a heavier member is required or an intermediate structural support must be provided.
- 7 Horizontal structural bridging (or bracing) is defaulted to be at 4 ft. on center for the purposes of the values shown in this catalog. The actual bridging that is ultimately provided is to be determined by the licensed specialty engineer responsible for the cold-formed steel design for the given project.
- 8 For a top-of-wall application which requires slip track for primary structure movement, mechanical bridging is recommended within 12" of the top of the stud.

Deflection.

L/240	Length (height) of stud, in inches, divided by 240 (exterior siding or EIFS)
L/360	Length (height) of stud, in inches, divided by 360 (exterior stucco)
L/600	Length (height) of stud, in inches, divided by 600 (exterior brick)
L/720	Length (height) of stud, in inches, divided by 720 (exterior brick)



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CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362S137-33	12	14' 3"	12' 7"	10' 7"	12' 4"	11' 5"	9' 8"	11' 1"	10' 7"	8' 11"	10' 1"	10' 0"	8' 5"	9' 4"	9' 4"	8' 0"	8' 9" e	8' 9" e	7' 8"
	16	12' 4"	11' 5"	9' 8"	10' 9"	10' 5"	8' 9"	9' 7"	9' 7"	8' 2"	8' 9" e	8' 9" e	7' 8"	8' 1" e	8' 1" e	7' 3" e	7' 7" e	7' 7" e	6' 11" e
	24	10' 1"	10' 0"	8' 5"	8' 9" e	8' 9" e	7' 8"	7' 10" e	7' 10" e	7' 1" e	7' 2" e	7' 2" e	6' 8" e	6' 7" e	6' 7" e	6' 4" e	6' 2" e	6' 2" e	6' 1" e
362S137-43	12	15' 8"	13' 8"	11' 7"	14' 3"	12' 5"	10' 6"	13' 0"	11' 7"	9' 9"	11' 10"	10' 10"	9' 2"	11' 0"	10' 4"	8' 8"	10' 3"	9' 10"	8' 4"
	16	14' 3"	12' 5"	10' 6"	12' 7"	11' 4"	9' 6"	11' 3"	10' 6"	8' 10"	10' 3"	9' 10"	8' 4"	9' 6"	9' 5"	7' 11"	8' 11"	8' 11"	7' 7"
	24	11' 10"	10' 10"	9' 2"	10' 3"	9' 10"	8' 4"	9' 2"	9' 2"	7' 9"	8' 5"	8' 5"	7' 3"	7' 9"	7' 9"	6' 11"	7' 3" e	7' 3" e	6' 7"
362S137-54	12	16' 9"	14' 8"	12' 4"	15' 3"	13' 4"	11' 3"	14' 2"	12' 4"	10' 5"	13' 4"	11' 8"	9' 10"	12' 8"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"
	16	15' 3"	13' 4"	11' 3"	13' 10"	12' 1"	10' 2"	12' 10"	11' 3"	9' 6"	12' 1"	10' 7"	8' 11"	11' 6"	10' 0"	8' 6"	11' 0"	9' 7"	8' 1"
	24	13' 4"	11' 8"	9' 10"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"	10' 7"	9' 3"	7' 9"	10' 0"	8' 9"	7' 5"	9' 7"	8' 5"	7' 1"
362S137-68	12	17' 11"	15' 8"	13' 2"	16' 3"	14' 3"	12' 0"	15' 1"	13' 2"	11' 2"	14' 3"	12' 5"	10' 6"	13' 6"	11' 10"	9' 11"	12' 11"	11' 4"	9' 6"
	16	16' 3"	14' 3"	12' 0"	14' 10"	12' 11"	10' 11"	13' 9"	12' 0"	10' 1"	12' 11"	11' 4"	9' 6"	12' 3"	10' 9"	9' 1"	11' 9"	10' 3"	8' 8"
	24	14' 3"	12' 5"	10' 6"	12' 11"	11' 4"	9' 6"	12' 0"	10' 6"	8' 10"	11' 4"	9' 10"	8' 4"	10' 9"	9' 4"	7' 11"	10' 3"	9' 0"	7' 7"
362S137-97	12	19' 9"	17' 3"	14' 6"	17' 11"	15' 8"	13' 2"	16' 8"	14' 6"	12' 3"	15' 8"	13' 8"	11' 6"	14' 10"	13' 0"	11' 0"	14' 3"	12' 5"	10' 6"
	16	17' 11"	15' 8"	13' 2"	16' 3"	14' 3"	12' 0"	15' 1"	13' 2"	11' 2"	14' 3"	12' 5"	10' 6"	13' 6"	11' 10"	9' 11"	12' 11"	11' 3"	9' 6"
	24	15' 8"	13' 8"	11' 6"	14' 3"	12' 5"	10' 6"	13' 2"	11' 6"	9' 9"	12' 5"	10' 10"	9' 2"	11' 10"	10' 4"	8' 8"	11' 3"	9' 10"	8' 4"
362S162-33	12	15' 1"	13' 2"	11' 1"	13' 3"	12' 0"	10' 1"	11' 11"	11' 1"	9' 5"	10' 10"	10' 6"	8' 10"	10' 0" e	9' 11" e	8' 5"	9' 5" e	9' 5" e	8' 0"
	16	13' 3"	12' 0"	10' 1"	11' 6"	10' 11"	9' 2"	10' 3" e	10' 1" e	8' 6"	9' 5" e	9' 5" e	8' 0"	8' 8" e	8' 8" e	7' 7" e	8' 2" e	8' 2" e	7' 3" e
	24	10' 10"	10' 6"	8' 10"	9' 5" e	9' 5" e	8' 0"	8' 5" e	8' 5" e	7' 5" e	7' 8" e	7' 8" e	7' 0" e	7' 1" e	7' 1" e	6' 8" e	6' 8" e	6' 8" e	6' 4" e
362S162-43	12	16' 5"	14' 4"	12' 1"	14' 11"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"	12' 9"	11' 5"	9' 7"	11' 10"	10' 10"	9' 1"	11' 1"	10' 4"	8' 9"
	16	14' 11"	13' 0"	11' 0"	13' 7"	11' 10"	10' 0"	12' 1"	11' 0"	9' 3"	11' 1"	10' 4"	8' 9"	10' 3"	9' 10"	8' 3"	9' 7"	9' 5"	7' 11"
	24	12' 9"	11' 5"	9' 7"	11' 1"	10' 4"	8' 9"	9' 11"	9' 7"	8' 1"	9' 0"	9' 0"	7' 7"	8' 4" e	8' 4" e	7' 3"	7' 10" e	7' 10" e	6' 11" e
362S162-54	12	17' 7"	15' 4"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"	14' 0"	12' 2"	10' 3"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"
	16	16' 0"	14' 0"	11' 9"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"	12' 8"	11' 1"	9' 4"	12' 1"	10' 6"	8' 11"	11' 6"	10' 1"	8' 6"
	24	14' 0"	12' 2"	10' 3"	12' 8"	11' 1"	9' 4"	11' 9"	10' 3"	8' 8"	11' 1"	9' 8"	8' 2"	10' 6"	9' 2"	7' 9"	10' 1"	8' 10"	7' 5"
362S162-68	12	18' 10"	16' 5"	13' 10"	17' 1"	14' 11"	12' 7"	15' 11"	13' 10"	11' 8"	14' 11"	13' 1"	11' 0"	14' 2"	12' 5"	10' 6"	13' 7"	11' 10"	10' 0"
	16	17' 1"	14' 11"	12' 7"	15' 6"	13' 7"	11' 5"	14' 5"	12' 7"	10' 8"	13' 7"	11' 10"	10' 0"	12' 11"	11' 3"	9' 6"	12' 4"	10' 9"	9' 1"
	24	14' 11"	13' 1"	11' 0"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"	11' 10"	10' 4"	8' 9"	11' 3"	9' 10"	8' 4"	10' 9"	9' 5"	7' 11"
362S162-97	12	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"
	16	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"
	24	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"

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

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CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
362S200-33	12	15' 11"	13' 11"	11' 8"	13' 11"	12' 7"	10' 8"	12' 5"	11' 8"	9' 10"	11' 4" e	11' 0" e	9' 3"	10' 6" e	10' 6" e	8' 10"	9' 10" e	9' 10" e	8' 5" e
	16	13' 11"	12' 7"	10' 8"	12' 1"	11' 5"	9' 8"	10' 9" e	10' 8" e	9' 0"	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
	24	11' 4" e	11' 0" e	9' 3"	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
362S200-43	12	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"
	16	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"
	24	13' 8"	12' 0"	10' 2"	11' 10"	10' 11"	9' 3"	10' 7"	10' 2"	8' 7"	9' 8" e	9' 7" e	8' 1"	9' 0" e	9' 0" e	7' 8"	8' 5" e	8' 5" e	7' 4" e
362S200-54	12	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"
	16	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"
	24	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"
362S200-68	12	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"
	16	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"
	24	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"
362S200-97	12	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"
	16	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"
	24	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"
362S250-43	12	18' 4"	16' 0"	13' 6"	16' 7"	14' 6"	12' 3"	15' 5"	13' 6"	11' 4"	14' 1"	12' 8"	10' 8"	13' 0"	12' 1"	10' 2"	12' 2"	11' 6"	9' 9"
	16	16' 7"	14' 6"	12' 3"	14' 11"	13' 2"	11' 2"	13' 4"	12' 3"	10' 4"	12' 2"	11' 6"	9' 9"	11' 3"	10' 11"	9' 3"	10' 6" e	10' 6" e	8' 10"
	24	14' 1"	12' 8"	10' 8"	12' 2"	11' 6"	9' 9"	10' 11"	10' 8"	9' 0"	9' 11" e	9' 11" e	8' 6"	9' 2" e	9' 2" e	8' 1" e	8' 7" e	8' 7" e	7' 9" e
362S250-54	12	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"
	16	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"
	24	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"
362S250-68	12	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"
	16	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"
	24	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"
362S250-97	12	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"
	16	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"
	24	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"

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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
400S137-33	12	15' 1"	13' 7"	11' 6"	13' 1"	12' 4"	10' 5"	11' 8"	11' 6"	9' 8"	10' 8"	10' 8"	9' 1"	9' 10" e	9' 10" e	8' 8"	9' 3" e	9' 3" e	8' 3" e
	16	13' 1"	12' 4"	10' 5"	11' 4"	11' 3"	9' 6"	10' 1" e	10' 1" e	8' 9"	9' 3" e	9' 3" e	8' 3" e	8' 7" e	8' 7" e	7' 10" e	8' 0" e	8' 0" e	7' 6" e
	24	10' 8"	10' 8"	9' 1"	9' 3" e	9' 3" e	8' 3" e	8' 3" e	7' 8" e	7' 8" e	7' 6" e	7' 6" e	7' 3" e	7' 0" e	7' 0" e	6' 10" e	6' 6" e	6' 6" e	6' 6" e
400S137-43	12	16' 11"	14' 9"	12' 6"	15' 4"	13' 5"	11' 4"	13' 9"	12' 6"	10' 6"	12' 7"	11' 9"	9' 11"	11' 7"	11' 2"	9' 5"	10' 10"	10' 8"	9' 0"
	16	15' 4"	13' 5"	11' 4"	13' 4"	12' 2"	10' 4"	11' 11"	11' 4"	9' 7"	10' 10"	10' 8"	9' 0"	10' 1"	10' 1"	8' 6"	9' 5"	9' 5"	8' 2"
	24	12' 7"	11' 9"	9' 11"	10' 10"	10' 8"	9' 0"	9' 9"	8' 4"	8' 11"	8' 11"	7' 10"	8' 3" e	8' 3" e	7' 6"	7' 8" e	7' 8" e	7' 2" e	7' 2" e
400S137-54	12	18' 1"	15' 10"	13' 4"	16' 6"	14' 5"	12' 2"	15' 3"	13' 4"	11' 3"	14' 5"	12' 7"	10' 7"	13' 8"	11' 11"	10' 1"	13' 1"	11' 5"	9' 8"
	16	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' 10"	10' 4"	8' 9"
	24	14' 5"	12' 7"	10' 7"	13' 1"	11' 5"	9' 8"	12' 2"	10' 7"	8' 11"	11' 5"	10' 0"	8' 5"	10' 10"	9' 6"	8' 0"	10' 4"	9' 1"	7' 8"
400S137-68	12	19' 5"	16' 11"	14' 3"	17' 7"	15' 5"	13' 0"	16' 4"	14' 3"	12' 0"	15' 5"	13' 5"	11' 4"	14' 7"	12' 9"	10' 9"	14' 0"	12' 2"	10' 4"
	16	17' 7"	15' 5"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"	14' 0"	12' 2"	10' 4"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"
	24	15' 5"	13' 5"	11' 4"	14' 0"	12' 2"	10' 4"	13' 0"	11' 4"	9' 7"	12' 2"	10' 8"	9' 0"	11' 7"	10' 2"	8' 7"	11' 1"	9' 8"	8' 2"
400S137-97	12	21' 4"	18' 8"	15' 9"	19' 5"	16' 11"	14' 3"	18' 0"	15' 9"	13' 3"	16' 11"	14' 10"	12' 6"	16' 1"	14' 1"	11' 10"	15' 5"	13' 5"	11' 4"
	16	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"
	24	16' 11"	14' 10"	12' 6"	15' 5"	13' 5"	11' 4"	14' 3"	12' 6"	10' 6"	13' 5"	11' 9"	9' 11"	12' 9"	11' 2"	9' 5"	12' 3"	10' 8"	9' 0"
400S162-33	12	16' 2"	14' 3"	12' 0"	14' 0"	12' 11"	10' 11"	12' 7"	12' 0"	10' 1"	11' 5" e	11' 4" e	9' 6"	10' 7" e	10' 7" e	9' 1"	9' 11" e	9' 11" e	8' 8" e
	16	14' 0"	12' 11"	10' 11"	12' 2"	11' 9"	9' 11"	10' 10" e	10' 10" e	9' 2"	9' 11" e	9' 11" e	8' 8" e	9' 2" e	9' 2" e	8' 3" e	8' 7" e	8' 7" e	7' 10" e
	24	11' 5" e	11' 4" e	9' 6"	9' 11" e	9' 11" e	8' 8" e	8' 10" e	8' 10" e	8' 0" e	8' 1" e	8' 1" e	7' 7" e	7' 6" e	7' 6" e	7' 2" e	7' 0" e	7' 0" e	6' 10" e
400S162-43	12	17' 9"	15' 6"	13' 1"	16' 1"	14' 1"	11' 10"	14' 10"	13' 1"	11' 0"	13' 6"	12' 3"	10' 4"	12' 6"	11' 8"	9' 10"	11' 9"	11' 2"	9' 5"
	16	16' 1"	14' 1"	11' 10"	14' 4"	12' 9"	10' 9"	12' 10"	11' 10"	10' 0"	11' 9"	11' 2"	9' 5"	10' 10"	10' 7"	8' 11"	10' 2"	10' 2"	8' 7"
	24	13' 6"	12' 3"	10' 4"	11' 9"	11' 2"	9' 5"	10' 6"	10' 4"	8' 9"	9' 7" e	9' 7" e	8' 3"	8' 10" e	8' 10" e	7' 10"	8' 3" e	8' 3" e	7' 6" e
400S162-54	12	19' 0"	16' 7"	14' 0"	17' 3"	15' 1"	12' 9"	16' 0"	14' 0"	11' 10"	15' 1"	13' 2"	11' 1"	14' 4"	12' 6"	10' 7"	13' 8"	12' 0"	10' 1"
	16	17' 3"	15' 1"	12' 9"	15' 8"	13' 8"	11' 7"	14' 7"	12' 9"	10' 9"	13' 8"	12' 0"	10' 1"	13' 0"	11' 4"	9' 7"	12' 5"	10' 10"	9' 2"
	24	15' 1"	13' 2"	11' 1"	13' 8"	12' 0"	10' 1"	12' 9"	11' 1"	9' 4"	12' 0"	10' 5"	8' 10"	11' 4"	9' 11"	8' 5"	10' 10"	9' 6"	8' 0"
400S162-68	12	20' 4"	17' 9"	15' 0"	18' 6"	16' 2"	13' 7"	17' 2"	15' 0"	12' 8"	16' 2"	14' 1"	11' 11"	15' 4"	13' 5"	11' 4"	14' 8"	12' 10"	10' 10"
	16	18' 6"	16' 2"	13' 7"	16' 9"	14' 8"	12' 4"	15' 7"	13' 7"	11' 6"	14' 8"	12' 10"	10' 10"	13' 11"	12' 2"	10' 3"	13' 4"	11' 8"	9' 10"
	24	16' 2"	14' 1"	11' 11"	14' 8"	12' 10"	10' 10"	13' 7"	11' 11"	10' 0"	12' 10"	11' 2"	9' 5"	12' 2"	10' 8"	9' 0"	11' 8"	10' 2"	8' 7"
400S162-97	12	22' 5"	19' 7"	16' 7"	20' 5"	17' 10"	15' 0"	18' 11"	16' 7"	13' 11"	17' 10"	15' 7"	13' 2"	16' 11"	14' 9"	12' 6"	16' 2"	14' 2"	11' 11"
	16	20' 5"	17' 10"	15' 0"	18' 6"	16' 2"	13' 8"	17' 2"	15' 0"	12' 8"	16' 2"	14' 2"	11' 11"	15' 5"	13' 5"	11' 4"	14' 9"	12' 10"	10' 10"
	24	17' 10"	15' 7"	13' 2"	16' 2"	14' 2"	11' 11"	15' 0"	13' 2"	11' 1"	14' 2"	12' 4"	10' 5"	13' 5"	11' 9"	9' 11"	12' 10"	11' 3"	9' 6"

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
400S200-33	12	17' 0"	15' 0"	12' 7"	14' 9"	13' 7"	11' 6"	13' 2" e	12' 7"	10' 8"	12' 0" e	11' 10" e	10' 0"	11' 1" e	11' 1" e	9' 6" e	10' 5" e	10' 5" e	9' 1" e
	16	14' 9"	13' 7"	11' 6"	12' 9" e	12' 4" e	10' 5"	11' 5" e	11' 5" e	9' 8"	10' 5" e	10' 5" e	9' 1" e	9' 8" e	9' 8" e	8' 8" e	9' 0" e	9' 0" e	8' 3" e
	24	12' 0" e	11' 10" e	10' 0"	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' 7" e	7' 4" e	7' 4" e	7' 3" e
400S200-43	12	18' 8"	16' 4"	13' 9"	17' 0"	14' 10"	12' 6"	15' 9"	13' 9"	11' 7"	14' 6"	13' 0"	10' 11"	13' 5"	12' 4"	10' 5"	12' 7"	11' 9"	9' 11"
	16	17' 0"	14' 10"	12' 6"	15' 4"	13' 6"	11' 4"	13' 9"	12' 6"	10' 7"	12' 7"	11' 9"	9' 11"	11' 7"	11' 2"	9' 5"	10' 10" e	10' 8" e	9' 0"
	24	14' 6"	13' 0"	10' 11"	12' 7"	11' 9"	9' 11"	11' 3" e	10' 11"	9' 3"	10' 3" e	10' 3" e	8' 8"	9' 6" e	9' 6" e	8' 3" e	8' 11" e	8' 11" e	7' 11" e
400S200-54	12	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' 1"	13' 3"	11' 2"	14' 6"	12' 8"	10' 8"
	16	18' 3"	15' 11"	13' 5"	16' 7"	14' 6"	12' 2"	15' 4"	13' 5"	11' 4"	14' 6"	12' 8"	10' 8"	13' 9"	12' 0"	10' 1"	13' 2"	11' 6"	9' 8"
	24	15' 11"	13' 11"	11' 9"	14' 6"	12' 8"	10' 8"	13' 5"	11' 9"	9' 11"	12' 8"	11' 0"	9' 4"	12' 0"	10' 6"	8' 10"	11' 6"	10' 0"	8' 5"
400S200-68	12	21' 6"	18' 9"	15' 10"	19' 6"	17' 1"	14' 5"	18' 1"	15' 10"	13' 4"	17' 1"	14' 11"	12' 7"	16' 2"	14' 2"	11' 11"	15' 6"	13' 6"	11' 5"
	16	19' 6"	17' 1"	14' 5"	17' 9"	15' 6"	13' 1"	16' 6"	14' 5"	12' 2"	15' 6"	13' 6"	11' 5"	14' 9"	12' 10"	10' 10"	14' 1"	12' 4"	10' 4"
	24	17' 1"	14' 11"	12' 7"	15' 6"	13' 6"	11' 5"	14' 5"	12' 7"	10' 7"	13' 6"	11' 10"	10' 0"	12' 10"	11' 3"	9' 6"	12' 4"	10' 9"	9' 1"
400S200-97	12	23' 9"	20' 9"	17' 6"	21' 7"	18' 11"	15' 11"	20' 1"	17' 6"	14' 9"	18' 11"	16' 6"	13' 11"	17' 11"	15' 8"	13' 3"	17' 2"	15' 0"	12' 8"
	16	21' 7"	18' 11"	15' 11"	19' 8"	17' 2"	14' 6"	18' 3"	15' 11"	13' 5"	17' 2"	15' 0"	12' 8"	16' 4"	14' 3"	12' 0"	15' 7"	13' 7"	11' 6"
	24	18' 11"	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"
400S250-43	12	19' 8"	17' 2"	14' 6"	17' 11"	15' 8"	13' 2"	16' 3"	14' 6"	12' 3"	14' 10"	13' 8"	11' 6"	13' 9"	13' 0"	10' 11"	12' 10"	12' 5"	10' 6"
	16	17' 11"	15' 8"	13' 2"	15' 9"	14' 2"	12' 0"	14' 1"	13' 2"	11' 1"	12' 10"	12' 5"	10' 6"	11' 11" e	11' 9" e	9' 11"	11' 2" e	11' 2" e	9' 6"
	24	14' 10"	13' 8"	11' 6"	12' 10"	12' 5"	10' 6"	11' 6" e	11' 6" e	9' 9"	10' 6" e	10' 6" e	9' 2" e	9' 9" e	9' 9" e	8' 8" e	9' 1" e	9' 1" e	8' 4" e
400S250-54	12	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"
	16	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"
	24	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' 0"	10' 6"	8' 11"
400S250-68	12	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"
	16	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"
	24	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"
400S250-97	12	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"
	16	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"
	24	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"

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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
600S137-33	12	19' 1"	18' 7"	15' 8"	16' 6" e	16' 6" e	14' 3"	14' 9" e	14' 9" e	13' 3" e	13' 6" e	13' 6" e	12' 5" e	12' 6" e	12' 6" e	11' 10" e	11' 8" e	11' 8" e	11' 4" e
	16	16' 6" e	16' 6" e	14' 3"	14' 4" e	14' 4" e	12' 11" e	12' 10" e	12' 10" e	12' 0" e	11' 8" e	11' 8" e	11' 4" e	10' 10" e	10' 10" e	10' 9" e	10' 1" e	10' 1" e	10' 1" e
	24	13' 6" e	13' 6" e	12' 5" e	11' 8" e	11' 8" e	11' 4" e	10' 5" e	10' 5" e	10' 5" e	9' 6" e	9' 6" e	9' 6" e	8' 10" e	8' 10" e	8' 10" e	8' 3" e	8' 3" e	8' 3" e
600S137-43	12	22' 11"	20' 5"	17' 3"	19' 10"	18' 6"	15' 8"	17' 9"	17' 3"	14' 6"	16' 3"	16' 2"	13' 8"	15' 0" e	15' 0" e	13' 0"	14' 0" e	14' 0" e	12' 5"
	16	19' 10"	18' 6"	15' 8"	17' 2"	16' 10"	14' 2"	15' 5"	15' 5"	13' 2"	14' 0" e	14' 0" e	12' 5"	13' 0" e	13' 0" e	11' 9" e	12' 2" e	12' 2" e	11' 3" e
	24	16' 3"	16' 2"	13' 8"	14' 0" e	14' 0" e	12' 5"	12' 7" e	12' 7" e	11' 6" e	11' 6" e	11' 6" e	10' 10" e	10' 7" e	10' 7" e	10' 4" e	9' 11" e	9' 11" e	9' 10" e
600S137-54	12	25' 1"	21' 11"	18' 5"	22' 9"	19' 11"	16' 9"	21' 2"	18' 5"	15' 7"	19' 11"	17' 4"	14' 8"	18' 11"	16' 6"	13' 11"	18' 1"	15' 9"	13' 4"
	16	22' 9"	19' 11"	16' 9"	20' 8"	18' 1"	15' 3"	19' 2"	16' 9"	14' 2"	18' 1"	15' 9"	13' 4"	17' 2"	15' 0"	12' 8"	16' 4"	14' 4"	12' 1"
	24	19' 11"	17' 4"	14' 8"	18' 1"	15' 9"	13' 4"	16' 9"	14' 8"	12' 4"	15' 4"	13' 9"	11' 8"	14' 3"	13' 1"	11' 1"	13' 4"	12' 6"	10' 7"
600S137-68	12	26' 10"	23' 5"	19' 9"	24' 5"	21' 4"	18' 0"	22' 8"	19' 9"	16' 8"	21' 4"	18' 7"	15' 8"	20' 3"	17' 8"	14' 11"	19' 4"	16' 11"	14' 3"
	16	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"	12' 11"
	24	21' 4"	18' 7"	15' 8"	19' 4"	16' 11"	14' 3"	18' 0"	15' 8"	13' 3"	16' 11"	14' 9"	12' 5"	16' 1"	14' 0"	11' 10"	15' 4"	13' 5"	11' 4"
600S137-97	12	29' 8"	25' 11"	21' 10"	27' 0"	23' 7"	19' 10"	25' 0"	21' 10"	18' 5"	23' 7"	20' 7"	17' 4"	22' 5"	19' 7"	16' 6"	21' 5"	18' 8"	15' 9"
	16	27' 0"	23' 7"	19' 10"	24' 6"	21' 5"	18' 1"	22' 9"	19' 10"	16' 9"	21' 5"	18' 8"	15' 9"	20' 4"	17' 9"	15' 0"	19' 5"	17' 0"	14' 4"
	24	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"
600S162-33	12	20' 6" e	19' 6"	16' 6"	17' 9" e	17' 9" e	15' 0"	15' 11" e	15' 11" e	13' 11" e	14' 6" e	14' 6" e	13' 1" e	13' 5" e	13' 5" e	12' 5" e	12' 7" e	12' 7" e	11' 11" e
	16	17' 9" e	17' 9" e	15' 0"	15' 5" e	15' 5" e	13' 7" e	13' 9" e	13' 9" e	12' 8" e	12' 7" e	12' 7" e	11' 11" e	11' 8" e	11' 8" e	11' 3" e	10' 11" e	10' 11" e	10' 10" e
	24	14' 6" e	14' 6" e	13' 1" e	12' 7" e	12' 7" e	11' 11" e	11' 3" e	11' 3" e	11' 0" e	10' 3" e	10' 3" e	9' 6" e	9' 6" e	9' 6" e	9' 6" e	8' 11" e	8' 11" e	8' 11" e
600S162-43	12	24' 4"	21' 3"	17' 11"	22' 0"	19' 4"	16' 4"	19' 8"	17' 11"	15' 2"	17' 11" e	16' 11"	14' 3"	16' 7" e	16' 1" e	13' 6"	15' 6" e	15' 4" e	12' 11"
	16	22' 0"	19' 4"	16' 4"	19' 0"	17' 7"	14' 10"	17' 0" e	16' 4" e	13' 9"	15' 6" e	15' 4" e	12' 11"	14' 5" e	14' 5" e	12' 4" e	13' 5" e	13' 5" e	11' 9" e
	24	17' 11" e	16' 11"	14' 3"	15' 6" e	15' 4" e	12' 11"	13' 11" e	13' 11" e	12' 0" e	12' 8" e	12' 8" e	11' 4" e	11' 9" e	11' 9" e	10' 9" e	11' 0" e	11' 0" e	10' 3" e
600S162-54	12	26' 2"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"	20' 9"	18' 1"	15' 3"	19' 8"	17' 3"	14' 6"	18' 10"	16' 6"	13' 11"
	16	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"
	24	20' 9"	18' 1"	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"	14' 8"	13' 1"	11' 0"
600S162-68	12	28' 0"	24' 6"	20' 8"	25' 6"	22' 3"	18' 9"	23' 8"	20' 8"	17' 5"	22' 3"	19' 5"	16' 5"	21' 2"	18' 5"	15' 7"	20' 3"	17' 8"	14' 11"
	16	25' 6"	22' 3"	18' 9"	23' 2"	20' 3"	17' 1"	21' 6"	18' 9"	15' 10"	20' 3"	17' 8"	14' 11"	19' 2"	16' 9"	14' 2"	18' 4"	16' 0"	13' 6"
	24	22' 3"	19' 5"	16' 5"	20' 3"	17' 8"	14' 11"	18' 9"	16' 5"	13' 10"	17' 8"	15' 5"	13' 0"	16' 9"	14' 8"	12' 4"	16' 0"	14' 0"	11' 10"
600S162-97	12	31' 1"	27' 2"	22' 11"	28' 3"	24' 8"	20' 9"	26' 2"	22' 11"	19' 4"	24' 8"	21' 6"	18' 2"	23' 5"	20' 5"	17' 3"	22' 5"	19' 7"	16' 6"
	16	28' 3"	24' 8"	20' 9"	25' 8"	22' 5"	18' 11"	23' 10"	20' 9"	17' 6"	22' 5"	19' 7"	16' 6"	21' 3"	18' 7"	15' 8"	20' 4"	17' 9"	15' 0"
	24	24' 8"	21' 6"	18' 2"	22' 5"	19' 7"	16' 6"	20' 9"	18' 2"	15' 4"	19' 7"	17' 1"	14' 5"	18' 7"	16' 3"	13' 8"	17' 9"	15' 6"	13' 1"

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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	21' 11" e	20' 6" e	17' 3"	18' 11" e	18' 7" e	15' 8" e	16' 11" e	16' 11" e	14' 7" e	15' 6" e	15' 6" e	13' 8" e	14' 4" e	14' 4" e	13' 0" e	13' 5" e	13' 5" e	12' 5" e
	16	18' 11" e	18' 7" e	15' 8" e	16' 5" e	16' 5" e	14' 3" e	14' 8" e	14' 8" e	13' 3" e	13' 5" e	13' 5" e	12' 5" e	12' 5" e	12' 5" e	11' 10" e	11' 7" e	11' 7" e	11' 4" e
	24	15' 6" e	15' 6" e	13' 8" e	13' 5" e	13' 5" e	12' 5" e	12' 0" e	12' 0" e	11' 7" e	10' 11" e	10' 11" e	10' 10" e	10' 2" e	10' 2" e	10' 2" e	9' 6" e	9' 6" e	9' 6" e
600S200-43	12	25' 7" e	22' 4" e	18' 10"	22' 8" e	20' 4" e	17' 2" e	20' 3" e	18' 10"	15' 11" e	18' 6" e	17' 9" e	15' 0" e	17' 1" e	16' 10" e	14' 3" e	16' 0" e	16' 0" e	13' 7" e
	16	22' 8" e	20' 4" e	17' 2" e	19' 7" e	18' 5" e	15' 7" e	17' 7" e	17' 2" e	14' 5" e	16' 0" e	16' 0" e	13' 7" e	14' 10" e	14' 10" e	12' 11" e	13' 10" e	13' 10" e	12' 4" e
	24	18' 6" e	17' 9" e	15' 0" e	16' 0" e	16' 0" e	13' 7" e	14' 4" e	14' 4" e	12' 7" e	13' 1" e	13' 1" e	11' 11" e	12' 1" e	12' 1" e	11' 3" e	11' 4" e	11' 4" e	10' 9" e
600S200-54	12	27' 6" e	24' 0" e	20' 3" e	24' 11" e	21' 10" e	18' 5" e	23' 2" e	20' 3" e	17' 1" e	21' 10" e	19' 1" e	16' 1" e	20' 9" e	18' 1" e	15' 3" e	19' 10" e	17' 4" e	14' 7" e
	16	24' 11" e	21' 10" e	18' 5" e	22' 8" e	19' 10" e	16' 8" e	21' 1" e	18' 5" e	15' 6" e	19' 10" e	17' 4" e	14' 7" e	18' 10" e	16' 5" e	13' 10" e	18' 0" e	15' 9" e	13' 3" e
	24	21' 10" e	19' 1" e	16' 1" e	19' 10" e	17' 4" e	14' 7" e	18' 5" e	16' 1" e	13' 7" e	17' 4" e	15' 1" e	12' 9" e	16' 2" e	14' 4" e	12' 1" e	15' 1" e	13' 9" e	11' 7" e
600S200-68	12	29' 6" e	25' 9" e	21' 9" e	26' 9" e	23' 5" e	19' 9" e	24' 10" e	21' 9" e	18' 4" e	23' 5" e	20' 5" e	17' 3" e	22' 3" e	19' 5" e	16' 4" e	21' 3" e	18' 7" e	15' 8" e
	16	26' 9" e	23' 5" e	19' 9" e	24' 4" e	21' 3" e	17' 11" e	22' 7" e	19' 9" e	16' 8" e	21' 3" e	18' 7" e	15' 8" e	20' 2" e	17' 8" e	14' 11" e	19' 4" e	16' 10" e	14' 3" e
	24	23' 5" e	20' 5" e	17' 3" e	21' 3" e	18' 7" e	15' 8" e	19' 9" e	17' 3" e	14' 6" e	18' 7" e	16' 3" e	13' 8" e	17' 8" e	15' 5" e	13' 0" e	16' 10" e	14' 9" e	12' 5" e
600S200-97	12	32' 9" e	28' 7" e	24' 1" e	29' 9" e	26' 0" e	21' 11" e	27' 7" e	24' 1" e	20' 4" e	26' 0" e	22' 8" e	19' 2" e	24' 8" e	21' 7" e	18' 2" e	23' 7" e	20' 7" e	17' 5" e
	16	29' 9" e	26' 0" e	21' 11" e	27' 0" e	23' 7" e	19' 11" e	25' 1" e	21' 11" e	18' 6" e	23' 7" e	20' 7" e	17' 5" e	22' 5" e	19' 7" e	16' 6" e	21' 5" e	18' 9" e	15' 10" e
	24	26' 0" e	22' 8" e	19' 2" e	23' 7" e	20' 7" e	17' 5" e	21' 11" e	19' 2" e	16' 2" e	20' 7" e	18' 0" e	15' 2" e	19' 7" e	17' 1" e	14' 5" e	18' 9" e	16' 4" e	13' 10" e
600S250-43	12	26' 10" e	23' 5" e	19' 9" e	23' 3" e	21' 3" e	17' 11" e	20' 10" e	19' 9" e	16' 8" e	19' 0" e	18' 7" e	15' 8" e	17' 7" e	17' 7" e	14' 11" e	16' 5" e	16' 5" e	14' 3" e
	16	23' 3" e	21' 3" e	17' 11" e	20' 2" e	19' 4" e	16' 4" e	18' 0" e	17' 11" e	15' 2" e	16' 5" e	16' 5" e	14' 3" e	15' 3" e	15' 3" e	13' 6" e	14' 3" e	14' 3" e	12' 11" e
	24	19' 0" e	18' 7" e	15' 8" e	16' 5" e	16' 5" e	14' 3" e	14' 8" e	14' 8" e	13' 3" e	13' 5" e	13' 5" e	12' 5" e	12' 5" e	12' 5" e	11' 10" e	11' 7" e	11' 7" e	11' 4" e
600S250-54	12	28' 8" e	25' 0" e	21' 1" e	26' 0" e	22' 9" e	19' 2" e	24' 2" e	21' 1" e	17' 10" e	22' 9" e	19' 10" e	16' 9" e	21' 7" e	18' 10" e	15' 11" e	20' 8" e	18' 1" e	15' 3" e
	16	26' 0" e	22' 9" e	19' 2" e	23' 8" e	20' 8" e	17' 5" e	21' 11" e	19' 2" e	16' 2" e	20' 8" e	18' 1" e	15' 3" e	19' 7" e	17' 2" e	14' 6" e	18' 9" e	16' 5" e	13' 10" e
	24	22' 9" e	19' 10" e	16' 9" e	20' 8" e	18' 1" e	15' 3" e	19' 2" e	16' 9" e	14' 2" e	17' 10" e	15' 9" e	13' 4" e	16' 6" e	15' 0" e	12' 8" e	15' 6" e	14' 4" e	12' 1" e
600S250-68	12	30' 11" e	27' 0" e	22' 9" e	28' 1" e	24' 6" e	20' 8" e	26' 1" e	22' 9" e	19' 2" e	24' 6" e	21' 5" e	18' 1" e	23' 4" e	20' 4" e	17' 2" e	22' 3" e	19' 6" e	16' 5" e
	16	28' 1" e	24' 6" e	20' 8" e	25' 6" e	22' 3" e	18' 10" e	23' 8" e	20' 8" e	17' 5" e	22' 3" e	19' 6" e	16' 5" e	21' 2" e	18' 6" e	15' 7" e	20' 3" e	17' 8" e	14' 11" e
	24	24' 6" e	21' 5" e	18' 1" e	22' 3" e	19' 6" e	16' 5" e	20' 8" e	18' 1" e	15' 3" e	19' 6" e	17' 0" e	14' 4" e	18' 6" e	16' 2" e	13' 7" e	17' 8" e	15' 5" e	13' 0" e
600S250-97	12	34' 4" e	30' 0" e	25' 4" e	31' 3" e	27' 3" e	23' 0" e	29' 0" e	25' 4" e	21' 4" e	27' 3" e	23' 10" e	20' 1" e	25' 11" e	22' 8" e	19' 1" e	24' 9" e	21' 8" e	18' 3" e
	16	31' 3" e	27' 3" e	23' 0" e	28' 4" e	24' 9" e	20' 11" e	26' 4" e	23' 0" e	19' 5" e	24' 9" e	21' 8" e	18' 3" e	23' 6" e	20' 7" e	17' 4" e	22' 6" e	19' 8" e	16' 7" e
	24	27' 3" e	23' 10" e	20' 1" e	24' 9" e	21' 8" e	18' 3" e	23' 0" e	20' 1" e	16' 11" e	21' 8" e	18' 11" e	15' 11" e	20' 7" e	18' 0" e	15' 2" e	19' 8" e	17' 2" e	14' 6" e
600S300-54	12	29' 3" e	25' 7" e	21' 7" e	26' 7" e	23' 3" e	19' 7" e	24' 8" e	21' 7" e	18' 2" e	23' 3" e	20' 3" e	17' 1" e	22' 1" e	19' 3" e	16' 3" e	21' 1" e	18' 5" e	15' 7" e
	16	26' 7" e	23' 3" e	19' 7" e	24' 2" e	21' 1" e	17' 10" e	22' 5" e	19' 7" e	16' 6" e	21' 1" e	18' 5" e	15' 7" e	20' 1" e	17' 6" e	14' 9" e	19' 2" e	16' 9" e	14' 2" e
	24	23' 3" e	20' 3" e	17' 1" e	21' 1" e	18' 5" e	15' 7" e	19' 7" e	17' 1" e	14' 5" e	18' 2" e	16' 1" e	13' 7" e	16' 10" e	15' 4" e	12' 11" e	15' 9" e	14' 8" e	12' 4" e
600S300-68	12	31' 11" e	27' 11" e	23' 6" e	29' 0" e	25' 4" e	21' 5" e	26' 11" e	23' 6" e	19' 10" e	25' 4" e	22' 2" e	18' 8" e	24' 1" e	21' 0" e	17' 9" e	23' 0" e	20' 2" e	17' 0" e
	16	29' 0" e	25' 4" e	21' 5" e	26' 4" e	23' 0" e	19' 5" e	24' 6" e	21' 5" e	18' 0" e	23' 0" e	20' 2" e	17' 0" e	21' 11" e	19' 1" e	16' 1" e	20' 11" e	18' 3" e	15' 5" e
	24	25' 4" e	22' 2" e	18' 8" e	23' 0" e	20' 2" e	17' 0" e	21' 5" e	18' 8" e	15' 9" e	20' 2" e	17' 7" e	14' 10" e	19' 1" e	16' 8" e	14' 1" e	18' 3" e	16' 0" e	13' 6" e
600S300-97	12	35' 8" e	31' 2" e	26' 4" e	32' 5" e	28' 4" e	23' 11" e	30' 1" e	26' 4" e	22' 2" e	28' 4" e	24' 9" e	20' 10" e	26' 11" e	23' 6" e	19' 10" e	25' 9" e	22' 6" e	19' 0" e
	16	32' 5" e	28' 4" e	23' 11" e	29' 6" e	25' 9" e	21' 8" e	27' 4" e	23' 11" e	20' 2" e	25' 9" e	22' 6" e	19' 0" e	24' 5" e	21' 4" e	18' 0" e	23' 5" e	20' 5" e	17' 3" e
	24	28' 4" e	24' 9" e	20' 10" e	25' 9" e	22' 6" e	19' 0" e	23' 11" e	20' 10" e	17' 7" e	22' 6" e	19' 8" e	16' 7" e	21' 4" e	18' 8" e	15' 9" e	20' 5" e	17' 10" e	15' 1" e

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

Pub. No. CD-STR-TechGuide 6/17

The technical content of this literature is effective 6/1/17 and supersedes all previous information.

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CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
800S137-33	12	21' 10" e	21' 10" e	19' 7" e	18' 11" e	18' 11" e	17' 9" e	16' 11" e	16' 11" e	16' 6" e	15' 5" e	15' 5" e	15' 5" e	14' 3" e	14' 3" e	14' 3" e	13' 4" e	13' 4" e	13' 4" e
	16	18' 11" e	18' 11" e	17' 9" e	16' 4" e	16' 4" e	16' 2" e	14' 8" e	14' 8" e	14' 8" e	13' 4" e	13' 4" e	13' 4" e	12' 4" e	12' 4" e	12' 4" e	11' 7" e	11' 7" e	11' 7" e
	24	15' 5" e	15' 5" e	15' 5" e	13' 4" e	13' 4" e	13' 4" e	11' 11" e	11' 11" e	11' 11" e	10' 11" e	10' 11" e	10' 11" e	10' 1" e	10' 1" e	10' 1" e	9' 5" e	9' 5" e	9' 5" e
800S137-43	12	26' 6" e	25' 6" e	21' 6" e	22' 11" e	22' 11" e	19' 7" e	20' 6" e	20' 6" e	18' 2" e	18' 9" e	18' 9" e	17' 1" e	17' 4" e	17' 4" e	16' 3" e	16' 3" e	16' 3" e	15' 6" e
	16	22' 11" e	22' 11" e	19' 7" e	19' 10" e	19' 10" e	17' 9" e	17' 9" e	17' 9" e	16' 6" e	16' 3" e	16' 3" e	15' 6" e	15' 0" e	15' 0" e	14' 9" e	14' 1" e	14' 1" e	14' 1" e
	24	18' 9" e	18' 9" e	17' 1" e	16' 3" e	16' 3" e	15' 6" e	14' 6" e	14' 6" e	14' 5" e	13' 3" e	13' 3" e	13' 3" e	12' 3" e	12' 3" e	12' 3" e	11' 6" e	11' 6" e	11' 6" e
800S137-54	12	31' 5" e	27' 6" e	23' 2" e	28' 7" e	24' 11" e	21' 1" e	26' 6" e	23' 2" e	19' 6" e	24' 11" e	21' 10" e	18' 5" e	23' 4" e	20' 8" e	17' 6" e	21' 9" e	19' 10" e	16' 8" e
	16	28' 7" e	24' 11" e	21' 1" e	25' 11" e	22' 8" e	19' 1" e	23' 10" e	21' 1" e	17' 9" e	21' 9" e	19' 10" e	16' 8" e	20' 2" e	18' 10" e	15' 10" e	18' 10" e	18' 0" e	15' 2" e
	24	24' 11" e	21' 10" e	18' 5" e	21' 9" e	19' 10" e	16' 8" e	19' 6" e	18' 5" e	15' 6" e	17' 9" e	17' 4" e	14' 7" e	16' 6" e	16' 5" e	13' 10" e	15' 5" e	15' 5" e	13' 3" e
800S137-68	12	34' 0" e	29' 8" e	25' 0" e	30' 11" e	27' 0" e	22' 9" e	28' 8" e	25' 0" e	21' 1" e	27' 0" e	23' 7" e	19' 10" e	25' 7" e	22' 5" e	18' 11" e	24' 6" e	21' 5" e	18' 1" e
	16	30' 11" e	27' 0" e	22' 9" e	28' 1" e	24' 6" e	20' 8" e	26' 0" e	22' 9" e	19' 2" e	24' 6" e	21' 5" e	18' 1" e	23' 3" e	20' 4" e	17' 2" e	22' 3" e	19' 5" e	16' 5" e
	24	27' 0" e	23' 7" e	19' 10" e	24' 6" e	21' 5" e	18' 1" e	22' 9" e	19' 10" e	16' 9" e	21' 0" e	18' 8" e	15' 9" e	19' 5" e	17' 9" e	15' 0" e	18' 2" e	17' 0" e	14' 4" e
800S137-97	12	37' 9" e	32' 11" e	27' 10" e	34' 3" e	29' 11" e	25' 3" e	31' 10" e	27' 10" e	23' 5" e	29' 11" e	26' 2" e	22' 1" e	28' 5" e	24' 10" e	20' 11" e	27' 2" e	23' 9" e	20' 1" e
	16	34' 3" e	29' 11" e	25' 3" e	31' 2" e	27' 2" e	22' 11" e	28' 11" e	25' 3" e	21' 4" e	27' 2" e	23' 9" e	20' 1" e	25' 10" e	22' 7" e	19' 0" e	24' 9" e	21' 7" e	18' 3" e
	24	29' 11" e	26' 2" e	22' 1" e	27' 2" e	23' 9" e	20' 1" e	25' 3" e	22' 1" e	18' 7" e	23' 9" e	20' 9" e	17' 6" e	22' 7" e	19' 9" e	16' 8" e	21' 7" e	18' 10" e	15' 11" e
800S162-33	12	23' 8" e	23' 8" e	20' 4" e	20' 6" e	20' 6" e	18' 6" e	18' 4" e	18' 4" e	17' 2" e	16' 9" e	16' 9" e	16' 2" e	15' 6" e	15' 6" e	15' 4" e	14' 6" e	14' 6" e	14' 6" e
	16	20' 6" e	20' 6" e	18' 6" e	17' 9" e	17' 9" e	16' 10" e	15' 11" e	15' 11" e	15' 7" e	14' 6" e	14' 6" e	14' 6" e	13' 5" e	13' 5" e	13' 5" e	12' 7" e	12' 7" e	12' 7" e
	24	16' 9" e	16' 9" e	16' 2" e	14' 6" e	14' 6" e	14' 6" e	13' 0" e	13' 0" e	13' 0" e	11' 10" e	11' 10" e	11' 10" e	11' 0" e	11' 0" e	11' 0" e	10' 3" e	10' 3" e	10' 3" e
800S162-43	12	28' 7" e	26' 7" e	22' 5" e	24' 9" e	24' 2" e	20' 4" e	22' 1" e	22' 1" e	18' 11" e	20' 2" e	20' 2" e	17' 9" e	18' 8" e	18' 8" e	16' 11" e	17' 6" e	17' 6" e	16' 2" e
	16	24' 9" e	24' 2" e	20' 4" e	21' 5" e	21' 5" e	18' 6" e	19' 2" e	19' 2" e	17' 2" e	17' 6" e	17' 6" e	16' 2" e	16' 2" e	16' 2" e	15' 4" e	15' 2" e	15' 2" e	14' 8" e
	24	20' 2" e	20' 2" e	17' 9" e	17' 6" e	17' 6" e	16' 2" e	15' 8" e	15' 8" e	15' 0" e	14' 3" e	14' 3" e	14' 1" e	13' 3" e	13' 3" e	13' 3" e	12' 4" e	12' 4" e	12' 4" e
800S162-54	12	32' 8" e	28' 7" e	24' 1" e	29' 9" e	25' 11" e	21' 11" e	27' 7" e	24' 1" e	20' 4" e	25' 11" e	22' 8" e	19' 1" e	24' 8" e	21' 6" e	18' 2" e	23' 5" e	20' 7" e	17' 4" e
	16	29' 9" e	25' 11" e	21' 11" e	27' 0" e	23' 7" e	19' 11" e	25' 1" e	21' 11" e	18' 6" e	23' 5" e	20' 7" e	17' 4" e	21' 8" e	19' 7" e	16' 6" e	20' 3" e	18' 9" e	15' 9" e
	24	25' 11" e	22' 8" e	19' 1" e	23' 5" e	20' 7" e	17' 4" e	20' 11" e	19' 1" e	16' 2" e	19' 1" e	18' 0" e	15' 2" e	17' 8" e	17' 1" e	14' 5" e	16' 6" e	16' 4" e	13' 9" e
800S162-68	12	35' 4" e	30' 10" e	26' 0" e	32' 1" e	28' 1" e	23' 8" e	29' 10" e	26' 0" e	22' 0" e	28' 1" e	24' 6" e	20' 8" e	26' 8" e	23' 3" e	19' 8" e	25' 6" e	22' 3" e	18' 9" e
	16	32' 1" e	28' 1" e	23' 8" e	29' 2" e	25' 6" e	21' 6" e	27' 1" e	23' 8" e	19' 11" e	25' 6" e	22' 3" e	18' 9" e	24' 3" e	21' 2" e	17' 10" e	23' 2" e	20' 3" e	17' 1" e
	24	28' 1" e	24' 6" e	20' 8" e	25' 6" e	22' 3" e	18' 9" e	23' 8" e	20' 8" e	17' 5" e	22' 3" e	19' 5" e	16' 5" e	20' 9" e	18' 6" e	15' 7" e	19' 5" e	17' 8" e	14' 11" e
800S162-97	12	39' 3" e	34' 4" e	28' 11" e	35' 8" e	31' 2" e	26' 4" e	33' 2" e	28' 11" e	24' 5" e	31' 2" e	27' 3" e	23' 0" e	29' 7" e	25' 11" e	21' 10" e	28' 4" e	24' 9" e	20' 11" e
	16	35' 8" e	31' 2" e	26' 4" e	32' 5" e	28' 4" e	23' 11" e	30' 1" e	26' 4" e	22' 2" e	28' 4" e	24' 9" e	20' 11" e	26' 11" e	23' 6" e	19' 10" e	25' 9" e	22' 6" e	19' 0" e
	24	31' 2" e	27' 3" e	23' 0" e	28' 4" e	24' 9" e	20' 11" e	26' 4" e	23' 0" e	19' 5" e	24' 9" e	21' 7" e	18' 3" e	23' 6" e	20' 6" e	17' 4" e	22' 6" e	19' 8" e	16' 7" e

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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
800S200-33	12	25' 5" e	25' 5" e	21' 8" e	22' 0" 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
	16	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
	24	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
800S200-43	12	30' 7" e	28' 1" e	23' 8" e	26' 5" e	25' 6" e	21' 6" e	23' 8" e	23' 8" e	19' 11" e	21' 7" e	21' 7" e	18' 9" e	20' 0" e	20' 0" e	17' 10" e	18' 8" e	18' 8" e	17' 1" e
	16	26' 5" e	25' 6" e	21' 6" e	22' 11" e	22' 11" e	19' 6" e	20' 6" e	20' 6" e	18' 2" e	18' 8" e	18' 8" e	17' 1" e	17' 4" e	17' 4" e	16' 2" e	16' 2" e	16' 2" e	15' 6" e
	24	21' 7" e	21' 7" e	18' 9" e	18' 8" e	18' 8" e	17' 1" e	16' 9" e	16' 9" e	15' 10" e	15' 3" e	15' 3" e	14' 11" e	14' 2" e	14' 2" e	14' 2" e	13' 3" e	13' 3" e	13' 3" e
800S200-54	12	34' 6" e	30' 2" e	25' 5" e	31' 4" e	27' 5" e	23' 1" e	29' 1" e	25' 5" e	21' 5" e	27' 5" e	23' 11" e	20' 2" e	26' 0" e	22' 9" e	19' 2" e	24' 10" e	21' 9" e	18' 4" e
	16	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
	24	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	37' 1" e	32' 4" e	27' 4" e	33' 8" e	29' 5" e	24' 10" e	31' 3" e	27' 4" e	23' 0" e	29' 5" e	25' 8" e	21' 8" e	27' 11" e	24' 5" e	20' 7" e	26' 9" e	23' 4" e	19' 8" e
	16	33' 8" e	29' 5" e	24' 10" e	30' 7" e	26' 9" e	22' 6" e	28' 5" e	24' 10" e	20' 11" e	26' 9" e	23' 4" e	19' 8" e	25' 4" e	22' 2" e	18' 8" e	24' 3" e	21' 2" e	17' 11" e
	24	29' 5" e	25' 8" e	21' 8" e	26' 9" e	23' 4" e	19' 8" e	24' 10" e	21' 8" e	18' 3" e	23' 4" e	20' 5" e	17' 2" e	22' 2" e	19' 4" e	16' 4" e	21' 2" e	18' 6" e	15' 7" e
800S200-97	12	41' 2" e	36' 0" e	30' 4" e	37' 5" e	32' 8" e	27' 7" e	34' 9" e	30' 4" e	25' 7" e	32' 8" e	28' 7" e	24' 1" e	31' 1" e	27' 2" e	22' 11" e	29' 9" e	25' 11" e	21' 11" e
	16	37' 5" e	32' 8" e	27' 7" e	34' 0" e	29' 5" e	25' 1" e	31' 7" e	27' 7" e	23' 3" e	29' 9" e	25' 11" e	21' 11" e	28' 3" e	24' 8" e	20' 10" e	27' 0" e	23' 7" e	19' 11" e
	24	32' 8" e	28' 7" e	24' 1" e	29' 9" e	25' 11" e	21' 11" e	27' 7" e	24' 1" e	20' 4" e	25' 11" e	22' 8" e	19' 1" e	24' 8" e	21' 6" e	18' 2" e	23' 7" e	20' 7" e	17' 5" e
800S250-43	12	31' 4" e	29' 3" e	24' 8" e	27' 1" e	26' 7" e	22' 5" e	24' 3" e	24' 3" e	20' 10" e	22' 2" e	22' 2" e	19' 7" e	20' 6" e	20' 6" e	18' 7" e	19' 2" e	19' 2" e	17' 10" e
	16	27' 1" e	26' 7" e	22' 5" e	23' 6" e	23' 6" e	20' 4" e	21' 0" e	21' 0" e	18' 11" e	19' 2" e	19' 2" e	17' 10" e	17' 9" e	17' 9" e	16' 11" e	16' 7" e	16' 7" e	16' 2" e
	24	22' 2" e	22' 2" e	19' 7" e	19' 2" e	19' 2" e	17' 10" e	17' 2" e	17' 2" e	16' 6" e	15' 8" e	15' 8" e	15' 7" e	14' 6" e	14' 6" e	14' 6" e	13' 7" e	13' 7" e	13' 7" e
800S250-54	12	35' 10" e	31' 4" e	26' 5" e	32' 7" e	28' 5" e	24' 0" e	30' 3" e	26' 5" e	22' 3" e	28' 5" e	24' 10" e	21' 0" e	27' 0" e	23' 7" e	19' 11" e	25' 7" e	22' 7" e	19' 1" e
	16	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
	24	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	38' 8" e	33' 9" e	28' 6" e	35' 1" e	30' 8" e	25' 10" e	32' 7" e	28' 6" e	24' 0" e	30' 8" e	26' 10" e	22' 7" e	29' 2" e	25' 5" e	21' 6" e	27' 10" e	24' 4" e	20' 6" e
	16	35' 1" e	30' 8" e	25' 10" e	31' 11" e	27' 10" e	23' 6" e	29' 7" e	25' 10" e	21' 10" e	27' 10" e	24' 4" e	20' 6" e	26' 6" e	23' 1" e	19' 6" e	25' 4" e	22' 1" e	18' 8" e
	24	30' 8" e	26' 10" e	22' 7" e	27' 10" e	24' 4" e	20' 6" e	25' 10" e	22' 7" e	19' 1" e	24' 4" e	21' 3" e	17' 11" e	22' 8" e	20' 2" e	17' 0" e	21' 2" e	19' 4" e	16' 4" e
800S250-97	12	43' 1" e	37' 7" e	31' 9" e	39' 2" e	34' 2" e	28' 10" e	36' 4" e	31' 9" e	26' 9" e	34' 2" e	29' 10" e	25' 2" e	32' 6" e	28' 4" e	23' 11" e	31' 1" e	27' 2" e	22' 11" e
	16	39' 2" e	34' 2" e	28' 10" e	35' 7" e	31' 1" e	26' 2" e	33' 0" e	28' 10" e	24' 4" e	31' 1" e	27' 2" e	22' 11" e	29' 6" e	25' 9" e	21' 9" e	28' 3" e	24' 8" e	20' 9" e
	24	34' 2" e	29' 10" e	25' 2" e	31' 1" e	27' 2" e	22' 11" e	28' 10" e	25' 2" e	21' 3" e	27' 2" e	23' 8" e	20' 0" e	25' 9" e	22' 6" e	19' 0" e	24' 8" e	21' 6" e	18' 2" e
800S300-54	12	36' 7" e	32' 0" e	27' 0" e	33' 3" e	29' 1" e	24' 6" e	30' 11" e	27' 0" e	22' 9" e	29' 1" e	25' 5" e	21' 5" e	27' 7" e	24' 1" e	20' 4" e	25' 11" e	23' 1" e	19' 5" e
	16	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
	24	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	15' 5" e	15' 5" e
800S300-68	12	39' 9" e	34' 9" e	29' 4" e	36' 2" e	31' 7" e	26' 8" e	33' 7" e	29' 4" e	24' 9" e	31' 7" e	27' 7" e	23' 3" e	30' 0" e	26' 2" e	22' 1" e	28' 8" e	25' 1" e	21' 2" e
	16	36' 2" e	31' 7" e	26' 8" e	32' 10" e	28' 8" e	24' 2" e	30' 6" e	26' 8" e	22' 6" e	28' 8" e	25' 1" e	21' 2" e	27' 3" e	23' 10" e	20' 1" e	26' 1" e	22' 9" e	19' 2" e
	24	31' 7" e	27' 7" e	23' 3" e	28' 8" e	25' 1" e	21' 2" e	26' 8" e	23' 3" e	19' 7" e	24' 10" e	21' 11" e	18' 6" e	23' 0" e	20' 10" e	17' 6" e	21' 6" e	19' 11" e	16' 9" e
800S300-97	12	44' 7" e	38' 11" e	32' 10" e	40' 6" e	35' 4" e	29' 10" e	37' 7" e	32' 10" e	27' 8" e	35' 4" e	30' 11" e	26' 1" e	33' 7" e	29' 4" e	24' 9" e	32' 2" e	28' 1" e	23' 8" e
	16	40' 6" e	35' 4" e	29' 10" e	36' 9" e	32' 2" e	27' 1" e	34' 2" e	29' 10" e	25' 2" e	32' 2" e	28' 1" e	23' 8" e	30' 6" e	26' 8" e	22' 6" e	29' 2" e	25' 6" e	21' 6" e
	24	35' 4" e	30' 11" e	26' 1" e	32' 2" e	28' 1" e	23' 8" e	29' 10" e	26' 1" e	22' 0" e	28' 1" e	24' 6" e	20' 8" e	26' 8" e	23' 4" e	19' 8" e	25' 6" e	22' 3" e	18' 10" e

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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
10' Exterior Curtain Wall Framing	1000S162-43	12	31' 7" e	31' 6" e	26' 7" e	27' 5" e	27' 5" e	24' 2" e	24' 6" e	22' 5" e	22' 4" e	21' 1" e	20' 8" e	20' 8" e	20' 1" e	19' 4" e	19' 4" e	19' 2" e	
		16	27' 5" e	27' 5" e	24' 2" e	23' 9" e	23' 9" e	21' 11" e	21' 3" e	21' 3" e	20' 4" e	19' 4" e	19' 2" e	17' 11" e	17' 11" e	17' 11" e	16' 9" e	16' 9" e	16' 9" e
		24	22' 4" e	22' 4" e	21' 1" e	19' 4" e	19' 4" e	19' 2" e	17' 4" e	17' 4" e	17' 4" e	15' 10" e	15' 10" e	14' 8" e	14' 8" e	14' 8" e	13' 8" e	13' 8" e	13' 8" e
	1000S162-54	12	38' 10" e	33' 11" e	28' 7" e	35' 4" e	30' 10" e	26' 0" e	32' 9" e	28' 7" e	24' 2" e	30' 0" e	26' 11" e	22' 9" e	27' 9" e	25' 7" e	21' 7" e	25' 11" e	24' 6" e
		16	35' 4" e	30' 10" e	26' 0" e	31' 9" e	28' 0" e	23' 8" e	28' 5" e	26' 0" e	21' 11" e	25' 11" e	24' 6" e	20' 8" e	24' 0" e	23' 3" e	19' 7" e	22' 6" e	22' 3" e
		24	30' 0" e	26' 11" e	22' 9" e	25' 11" e	24' 6" e	20' 8" e	23' 2" e	22' 9" e	19' 2" e	21' 2" e	21' 2" e	18' 0" e	19' 7" e	19' 7" e	17' 2" e	18' 4" e	18' 4" e
	1000S162-68	12	42' 2" e	36' 10" e	31' 1" e	38' 3" e	33' 5" e	28' 2" e	35' 6" e	31' 1" e	26' 2" e	33' 5" e	29' 3" e	24' 8" e	31' 9" e	27' 9" e	23' 5" e	30' 5" e	26' 6" e
		16	38' 3" e	33' 5" e	28' 2" e	34' 9" e	30' 5" e	25' 8" e	32' 3" e	28' 2" e	23' 9" e	30' 5" e	26' 6" e	22' 5" e	28' 5" e	25' 3" e	21' 3" e	26' 7" e	24' 1" e
		24	33' 5" e	29' 3" e	24' 8" e	30' 5" e	26' 6" e	22' 5" e	27' 5" e	24' 8" e	20' 9" e	25' 0" e	23' 2" e	19' 7" e	23' 2" e	22' 0" e	18' 7" e	21' 8" e	21' 1" e
	1000S162-97	12	47' 4" e	41' 4" e	34' 10" e	43' 0" e	37' 7" e	31' 8" e	39' 11" e	34' 10" e	29' 5" e	37' 7" e	32' 10" e	27' 8" e	35' 8" e	31' 2" e	26' 3" e	34' 1" e	29' 10" e
		16	43' 0" e	37' 7" e	31' 8" e	39' 1" e	34' 1" e	28' 9" e	36' 3" e	31' 8" e	26' 9" e	34' 1" e	29' 10" e	25' 2" e	32' 5" e	28' 4" e	23' 11" e	31' 0" e	27' 1" e
		24	37' 7" e	32' 10" e	27' 8" e	34' 1" e	29' 10" e	25' 2" e	31' 8" e	27' 8" e	23' 4" e	29' 10" e	26' 0" e	22' 0" e	28' 4" e	24' 9" e	20' 10" e	27' 1" e	23' 8" e
	1000S200-43	12	34' 1" e	33' 0" e	27' 10" e	29' 6" e	29' 6" e	25' 3" e	26' 5" e	26' 5" e	23' 5" e	24' 1" e	24' 1" e	22' 1" e	22' 4" e	22' 4" e	21' 0" e	20' 11" e	20' 11" e
		16	29' 6" e	29' 6" e	25' 3" e	25' 7" e	25' 7" e	22' 11" e	22' 10" e	22' 10" e	21' 4" e	20' 11" e	20' 11" e	20' 1" e	19' 4" e	19' 4" e	19' 1" e	18' 1" e	18' 1" e
		24	24' 1" e	24' 1" e	22' 1" e	20' 11" e	20' 11" e	20' 1" e	18' 8" e	18' 8" e	18' 7" e	17' 1" e	17' 1" e	17' 1" e	15' 9" e	15' 9" e	15' 9" e	14' 9" e	14' 9" e
	1000S200-54	12	40' 8" e	35' 6" e	30' 0" e	36' 11" e	32' 3" e	27' 3" e	34' 4" e	30' 0" e	25' 3" e	32' 2" e	28' 2" e	23' 9" e	29' 10" e	26' 9" e	22' 7" e	27' 11" e	25' 7" e
		16	36' 11" e	32' 3" e	27' 3" e	33' 7" e	29' 4" e	24' 9" e	30' 6" e	27' 3" e	23' 0" e	27' 11" e	25' 7" e	21' 7" e	25' 10" e	24' 4" e	20' 6" e	24' 2" e	23' 3" e
		24	32' 2" e	28' 2" e	23' 9" e	27' 11" e	25' 7" e	21' 7" e	24' 11" e	23' 9" e	20' 1" e	22' 9" e	22' 5" e	18' 10" e	21' 1" e	21' 1" e	17' 11" e	19' 9" e	19' 9" e
	1000S200-68	12	44' 0" e	38' 6" e	32' 5" e	40' 0" e	34' 11" e	29' 6" e	37' 2" e	32' 5" e	27' 4" e	34' 11" e	30' 6" e	25' 9" e	33' 2" e	29' 0" e	24' 5" e	31' 9" e	27' 9" e
		16	40' 0" e	34' 11" e	29' 6" e	36' 4" e	31' 9" e	26' 9" e	33' 9" e	29' 6" e	24' 10" e	31' 9" e	27' 9" e	23' 5" e	30' 2" e	26' 4" e	22' 3" e	28' 5" e	25' 2" e
		24	34' 11" e	30' 6" e	25' 9" e	31' 9" e	27' 9" e	23' 5" e	29' 4" e	25' 9" e	21' 9" e	26' 9" e	24' 3" e	20' 5" e	24' 9" e	23' 0" e	19' 5" e	23' 2" e	22' 0" e
	1000S200-97	12	49' 5" e	43' 2" e	36' 5" e	44' 11" e	39' 3" e	33' 1" e	41' 8" e	36' 5" e	30' 9" e	39' 3" e	34' 3" e	28' 11" e	37' 3" e	32' 7" e	27' 5" e	35' 8" e	31' 2" e
		16	44' 11" e	39' 3" e	33' 1" e	40' 10" e	35' 8" e	30' 1" e	37' 10" e	33' 1" e	27' 11" e	35' 8" e	31' 2" e	26' 3" e	33' 10" e	29' 7" e	24' 11" e	32' 5" e	28' 3" e
		24	39' 3" e	34' 3" e	28' 11" e	35' 8" e	31' 2" e	26' 3" e	33' 1" e	28' 11" e	24' 5" e	31' 2" e	27' 2" e	22' 11" e	29' 7" e	25' 10" e	21' 9" e	28' 3" e	24' 9" e

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

	Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
			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
10" Exterior Curtain Wall Framing	1000S250-43	12	35' 1" e	34' 11" e	29' 5"	30' 5" e	30' 5" e	26' 9" e	27' 2" e	27' 2" e	24' 10" e	24' 10" e	24' 10" e	23' 4" e	23' 0" e	22' 2" e	21' 6" e	21' 6" e	21' 3" e	
		16	30' 5" e	30' 5" e	26' 9" e	26' 4" e	26' 4" e	24' 3" e	23' 6" e	23' 6" e	22' 7" e	21' 6" e	21' 6" e	21' 3" e	19' 11" e	19' 11" e	19' 11" e	18' 7" e	18' 7" e	18' 7" e
		24	24' 10" e	24' 10" e	23' 4" e	21' 6" e	21' 6" e	21' 3" e	19' 3" e	19' 3" e	19' 3" e	17' 6" e	17' 6" e	17' 6" e	16' 3" e	16' 3" e	16' 3" e	15' 2" e	15' 2" e	15' 2" e
	1000S250-54	12	42' 11"	37' 6"	31' 7"	39' 0"	34' 1"	28' 9"	36' 2"	31' 7"	26' 8"	33' 1"	29' 9"	25' 1"	30' 7"	28' 3"	23' 10"	28' 8" e	27' 0"	22' 10"
		16	39' 0"	34' 1"	28' 9"	35' 1"	30' 11"	26' 1"	31' 4"	28' 9"	24' 3"	28' 8" e	27' 0"	22' 10"	26' 6" e	25' 8" e	21' 8"	24' 10" e	24' 7" e	20' 9"
		24	33' 1"	29' 9"	25' 1"	28' 8" e	27' 0"	22' 10"	25' 7" e	25' 1" e	21' 2"	23' 5" e	23' 5" e	19' 11" e	21' 8" e	21' 8" e	18' 11" e	20' 3" e	20' 3" e	18' 1" e
	1000S250-68	12	46' 2"	40' 4"	34' 0"	41' 11"	36' 8"	30' 11"	38' 11"	34' 0"	28' 8"	36' 8"	32' 0"	27' 0"	34' 10"	30' 5"	25' 8"	33' 3"	29' 1"	24' 6"
		16	41' 11"	36' 8"	30' 11"	38' 1"	33' 3"	28' 1"	35' 4"	30' 11"	26' 1"	33' 3"	29' 1"	24' 6"	31' 2"	27' 7"	23' 4"	29' 2"	26' 5"	22' 3"
		24	36' 8"	32' 0"	27' 0"	33' 3"	29' 1"	24' 6"	30' 2"	27' 0"	22' 9"	27' 6"	25' 5"	21' 5"	25' 6" e	24' 1"	20' 4"	23' 10" e	23' 1" e	19' 6"
	1000S250-97	12	51' 6"	44' 11"	37' 11"	46' 9"	40' 10"	34' 5"	43' 5"	37' 11"	32' 0"	40' 10"	35' 8"	30' 1"	38' 10"	33' 11"	28' 7"	37' 1"	32' 5"	27' 4"
		16	46' 9"	40' 10"	34' 5"	42' 6"	37' 1"	31' 4"	39' 5"	34' 5"	29' 1"	37' 1"	32' 5"	27' 4"	35' 3"	30' 10"	26' 0"	33' 9"	29' 5"	24' 10"
		24	40' 10"	35' 8"	30' 1"	37' 1"	32' 5"	27' 4"	34' 5"	30' 1"	25' 5"	32' 5"	28' 4"	23' 11"	30' 10"	26' 11"	22' 8"	29' 5"	25' 9"	21' 8"
	1000S300-54	12	43' 9"	38' 3"	32' 3"	39' 9"	34' 9"	29' 4"	36' 9"	32' 3"	27' 2"	33' 7"	30' 4"	25' 7"	31' 1"	28' 10"	24' 4"	29' 1" e	27' 7"	23' 3"
		16	39' 9"	34' 9"	29' 4"	35' 7"	31' 7"	26' 8"	31' 10"	29' 4"	24' 9"	29' 1" e	27' 7"	23' 3"	26' 11" e	26' 2" e	22' 1"	25' 2" e	25' 1" e	21' 2" e
		24	33' 7"	30' 4"	25' 7"	29' 1" e	27' 7"	23' 3"	26' 0" e	25' 7" e	21' 7"	23' 9" e	23' 9" e	20' 4" e	22' 0" e	22' 0" e	19' 4" e	20' 7" e	20' 7" e	18' 6" e
		12	47' 5"	41' 5"	34' 11"	43' 1"	37' 8"	31' 9"	40' 0"	34' 11"	29' 6"	37' 8"	32' 11"	27' 9"	35' 9"	31' 3"	26' 4"	34' 3"	29' 11"	25' 2"
		16	43' 1"	37' 8"	31' 9"	39' 2"	34' 3"	28' 10"	36' 4"	31' 9"	26' 9"	34' 3"	29' 11"	25' 2"	31' 9"	28' 5"	23' 11"	29' 8"	27' 2"	22' 11"
		24	37' 8"	32' 11"	27' 9"	34' 3"	29' 11"	25' 2"	30' 8"	27' 9"	23' 5"	28' 0"	26' 1"	22' 0"	25' 11" e	24' 10" e	20' 11"	24' 3" e	23' 9" e	20' 0"
12		53' 1"	46' 5"	39' 1"	48' 3"	42' 2"	35' 7"	44' 9"	39' 1"	33' 0"	42' 2"	36' 10"	31' 1"	40' 0"	35' 0"	29' 6"	38' 3"	33' 5"	28' 3"	
16		48' 3"	42' 2"	35' 7"	43' 10"	38' 3"	32' 4"	40' 8"	35' 7"	30' 0"	38' 3"	33' 5"	28' 3"	36' 4"	31' 9"	26' 10"	34' 9"	30' 5"	25' 8"	
24		42' 2"	36' 10"	31' 1"	38' 3"	33' 5"	28' 3"	35' 7"	31' 1"	26' 2"	33' 5"	29' 3"	24' 8"	31' 9"	27' 9"	23' 5"	30' 5"	26' 7"	22' 5"	

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
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- 5 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- 7 Cells marked with an " " have $h/t > 200$, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 9 All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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
1200S162-54	12	44' 8" e	39' 1" e	32' 11" e	39' 6" e	35' 6" e	29' 11" e	35' 4" e	32' 11" e	27' 9" e	32' 3" e	31' 0" e	26' 2" e	29' 10" e	29' 5" e	24' 10" e	27' 11" e	27' 11" e	23' 9" e
	16	39' 6" e	35' 6" e	29' 11" e	34' 2" e	32' 3" e	27' 2" e	30' 7" e	29' 11" e	25' 3" e	27' 11" e	27' 11" e	23' 9" e	25' 10" e	25' 10" e	22' 7" e	24' 2" e	24' 2" e	21' 7" e
	24	32' 3" e	31' 0" e	26' 2" e	27' 11" e	27' 11" e	23' 9" e	25' 0" e	25' 0" e	22' 1" e	22' 10" e	22' 10" e	20' 9" e	21' 1" e	21' 1" e	19' 8" e	19' 9" e	19' 9" e	18' 10" e
1200S162-68	12	48' 7" e	42' 6" e	35' 10" e	44' 2" e	38' 7" e	32' 6" e	41' 0" e	35' 10" e	30' 2" e	38' 4" e	33' 8" e	28' 5" e	35' 6" e	32' 0" e	27' 0" e	33' 3" e	30' 7" e	25' 10" e
	16	44' 2" e	38' 7" e	32' 6" e	40' 1" e	35' 1" e	29' 7" e	36' 5" e	32' 6" e	27' 5" e	33' 3" e	30' 7" e	25' 10" e	30' 9" e	29' 1" e	24' 6" e	28' 9" e	27' 10" e	23' 6" e
	24	38' 4" e	33' 8" e	28' 5" e	33' 3" e	30' 7" e	25' 10" e	29' 8" e	28' 5" e	24' 0" e	27' 1" e	26' 9" e	22' 7" e	25' 1" e	25' 1" e	21' 5" e	23' 6" e	23' 6" e	20' 6" e
1200S162-97	12	55' 1" e	48' 1" e	40' 7" e	50' 0" e	43' 8" e	36' 10" e	46' 5" e	40' 7" e	34' 3" e	43' 8" e	38' 2" e	32' 2" e	41' 6" e	36' 3" e	30' 7" e	39' 8" e	34' 8" e	29' 3" e
	16	50' 0" e	43' 8" e	36' 10" e	45' 5" e	39' 8" e	33' 6" e	42' 2" e	36' 10" e	31' 1" e	39' 8" e	34' 8" e	29' 3" e	37' 9" e	32' 11" e	27' 9" e	36' 1" e	31' 6" e	26' 7" e
	24	43' 8" e	38' 2" e	32' 2" e	39' 8" e	34' 8" e	29' 3" e	36' 10" e	32' 2" e	27' 2" e	34' 8" e	30' 4" e	25' 7" e	32' 7" e	28' 9" e	24' 3" e	30' 6" e	27' 6" e	23' 3" e
1200S200-54	12	46' 9" e	40' 10" e	34' 5" e	42' 5" e	37' 1" e	31' 3" e	38' 3" e	34' 5" e	29' 0" e	34' 11" e	32' 5" e	27' 4" e	32' 4" e	30' 9" e	25' 11" e	30' 3" e	29' 5" e	24' 10" e
	16	42' 5" e	37' 1" e	31' 3" e	37' 0" e	33' 8" e	28' 5" e	33' 1" e	31' 3" e	26' 5" e	30' 3" e	29' 5" e	24' 10" e	28' 0" e	27' 11" e	23' 7" e	26' 2" e	26' 2" e	22' 7" e
	24	34' 11" e	32' 5" e	27' 4" e	30' 3" e	29' 5" e	24' 10" e	27' 0" e	27' 0" e	23' 1" e	24' 8" e	24' 8" e	21' 8" e	22' 10" e	22' 10" e	20' 7" e	21' 4" e	21' 4" e	19' 8" e
1200S200-68	12	50' 8" e	44' 3" e	37' 4" e	46' 1" e	40' 3" e	33' 11" e	42' 9" e	37' 4" e	31' 6" e	40' 3" e	35' 2" e	29' 8" e	38' 2" e	33' 5" e	28' 2" e	35' 9" e	31' 11" e	26' 11" e
	16	46' 1" e	40' 3" e	33' 11" e	41' 10" e	36' 7" e	30' 10" e	38' 10" e	33' 11" e	28' 7" e	35' 9" e	31' 11" e	26' 11" e	33' 1" e	30' 4" e	25' 7" e	30' 11" e	29' 0" e	24' 6" e
	24	40' 3" e	35' 2" e	29' 8" e	35' 9" e	31' 11" e	26' 11" e	31' 11" e	29' 8" e	25' 0" e	29' 2" e	27' 11" e	23' 6" e	27' 0" e	26' 6" e	22' 4" e	25' 3" e	25' 3" e	21' 5" e
1200S200-97	12	57' 4" e	50' 1" e	42' 3" e	52' 1" e	45' 6" e	38' 5" e	48' 4" e	42' 3" e	35' 8" e	45' 6" e	39' 9" e	33' 6" e	43' 3" e	37' 9" e	31' 10" e	41' 4" e	36' 1" e	30' 6" e
	16	52' 1" e	45' 6" e	38' 5" e	47' 4" e	41' 4" e	34' 10" e	43' 11" e	38' 5" e	32' 4" e	41' 4" e	36' 1" e	30' 6" e	39' 3" e	34' 4" e	28' 11" e	37' 7" e	32' 10" e	27' 8" e
	24	45' 6" e	39' 9" e	33' 6" e	41' 4" e	36' 1" e	30' 6" e	38' 5" e	33' 6" e	28' 3" e	36' 1" e	31' 7" e	26' 7" e	34' 4" e	30' 0" e	25' 3" e	32' 6" e	28' 8" e	24' 2" e
1200S250-54	12	48' 8" e	42' 6" e	35' 10" e	44' 2" e	38' 7" e	32' 7" e	39' 6" e	35' 10" e	30' 3" e	36' 0" e	33' 9" e	28' 5" e	33' 4" e	32' 0" e	27' 0" e	31' 2" e	30' 8" e	25' 10" e
	16	44' 2" e	38' 7" e	32' 7" e	38' 3" e	35' 1" e	29' 7" e	34' 2" e	32' 7" e	27' 6" e	31' 2" e	30' 8" e	25' 10" e	28' 11" e	28' 11" e	24' 7" e	27' 0" e	27' 0" e	23' 6" e
	24	36' 0" e	33' 9" e	28' 5" e	31' 2" e	30' 8" e	25' 10" e	27' 11" e	27' 11" e	24' 0" e	25' 6" e	25' 6" e	23' 7" e	23' 7" e	21' 5" e	22' 1" e	22' 1" e	22' 1" e	20' 6" e
1200S250-68	12	52' 10" e	46' 1" e	38' 11" e	48' 0" e	41' 11" e	35' 4" e	44' 6" e	38' 11" e	32' 10" e	41' 11" e	36' 7" e	30' 11" e	39' 5" e	34' 9" e	29' 4" e	36' 11" e	33' 3" e	28' 1" e
	16	48' 0" e	41' 11" e	35' 4" e	43' 7" e	38' 1" e	32' 1" e	40' 5" e	35' 4" e	29' 10" e	36' 11" e	33' 3" e	28' 1" e	34' 2" e	31' 7" e	26' 8" e	31' 11" e	30' 3" e	25' 6" e
	24	41' 11" e	36' 7" e	30' 11" e	36' 11" e	33' 3" e	28' 1" e	33' 0" e	30' 11" e	26' 1" e	30' 1" e	29' 1" e	24' 6" e	27' 11" e	27' 7" e	23' 3" e	26' 1" e	26' 1" e	22' 3" e
1200S250-97	12	59' 7" e	52' 0" e	43' 11" e	54' 1" e	47' 3" e	39' 10" e	50' 3" e	43' 11" e	37' 0" e	47' 3" e	41' 4" e	34' 10" e	44' 11" e	39' 3" e	33' 1" e	42' 11" e	37' 6" e	31' 8" e
	16	54' 1" e	47' 3" e	39' 10" e	49' 2" e	42' 11" e	36' 3" e	45' 8" e	39' 10" e	33' 8" e	42' 11" e	37' 6" e	31' 8" e	40' 10" e	35' 8" e	30' 1" e	39' 0" e	34' 1" e	28' 9" e
	24	47' 3" e	41' 4" e	34' 10" e	42' 11" e	37' 6" e	31' 8" e	39' 10" e	34' 10" e	29' 5" e	37' 6" e	32' 9" e	27' 8" e	35' 8" e	31' 2" e	26' 3" e	33' 7" e	29' 9" e	25' 1" e
1200S300-54	12	50' 10" e	44' 5" e	37' 5" e	45' 0" e	40' 4" e	34' 0" e	40' 3" e	37' 5" e	31' 7" e	36' 9" e	35' 3" e	29' 9" e	34' 0" e	33' 6" e	28' 3" e	31' 10" e	31' 10" e	27' 0" e
	16	45' 0" e	40' 4" e	34' 0" e	38' 11" e	36' 8" e	30' 11" e	34' 10" e	34' 0" e	28' 8" e	31' 10" e	31' 10" e	27' 0" e	29' 5" e	29' 5" e	25' 8" e	27' 6" e	27' 6" e	24' 7" e
	24	36' 9" e	35' 3" e	29' 9" e	31' 10" e	31' 10" e	27' 0" e	28' 5" e	28' 5" e	25' 1" e	26' 0" e	26' 0" e	23' 7" e	24' 0" e	24' 0" e	22' 5" e	22' 6" e	22' 6" e	21' 5" e
1200S300-68	12	54' 11" e	48' 0" e	40' 5" e	49' 11" e	43' 7" e	36' 9" e	46' 4" e	40' 5" e	34' 1" e	43' 5" e	38' 1" e	32' 1" e	40' 2" e	36' 2" e	30' 6" e	37' 7" e	34' 7" e	29' 2" e
	16	49' 11" e	43' 7" e	36' 9" e	45' 4" e	39' 7" e	33' 5" e	41' 2" e	36' 9" e	31' 0" e	37' 7" e	34' 7" e	29' 2" e	34' 10" e	32' 10" e	27' 9" e	32' 7" e	31' 5" e	26' 6" e
	24	43' 5" e	38' 1" e	32' 1" e	37' 7" e	34' 7" e	29' 2" e	33' 8" e	32' 1" e	27' 1" e	30' 8" e	30' 3" e	25' 6" e	28' 5" e	28' 5" e	24' 2" e	26' 7" e	26' 7" e	23' 2" e
1200S300-97	12	61' 5" e	53' 8" e	45' 3" e	55' 9" e	48' 9" e	41' 1" e	51' 10" e	45' 3" e	38' 2" e	48' 9" e	42' 7" e	35' 11" e	46' 4" e	40' 5" e	34' 1" e	44' 3" e	38' 8" e	32' 8" e
	16	55' 9" e	48' 9" e	41' 1" e	50' 8" e	44' 3" e	37' 4" e	47' 1" e	41' 1" e	34' 8" e	44' 3" e	38' 8" e	32' 8" e	42' 1" e	36' 9" e	31' 0" e	40' 3" e	35' 2" e	29' 8" e
	24	48' 9" e	42' 7" e	35' 11" e	44' 3" e	38' 8" e	32' 8" e	41' 1" e	35' 11" e	30' 3" e	38' 8" e	33' 10" e	28' 6" e	36' 8" e	32' 1" e	27' 1" e	34' 4" e	30' 8" e	25' 11" e

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- A 1/3 stress increase is not used.
- Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- Listed limiting heights are based on steel properties only.
- Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3.
- Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015

CURTAIN WALL HEIGHTS

Member	Spacing (in) o.c.	15psf			20psf			25psf			30psf			35psf			40psf		
		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
1400S162-54	12	48' 2" e	43' 11" e	37' 1" e	41' 8" e	39' 11" e	33' 8" e	37' 4" e	37' 1" e	31' 3" e	34' 1" e	34' 1" e	29' 5" e	31' 6" e	31' 6" e	27' 11" e	29' 6" e	29' 6" e	26' 9" e
	16	41' 8" e	39' 11" e	33' 8" e	36' 1" e	36' 1" e	30' 7" e	32' 4" e	32' 4" e	28' 5" e	29' 6" e	29' 6" e	26' 9" e	27' 4" e	27' 4" e	25' 5" e	25' 6" e	25' 6" e	24' 3" e
	24	34' 1" e	34' 1" e	29' 5" e	29' 6" e	29' 6" e	26' 9" e	26' 4" e	26' 4" e	24' 10" e	24' 1" e	24' 1" e	23' 4" e	22' 3" e	22' 3" e	22' 2" e	20' 10" e	20' 10" e	20' 10" e
1400S162-68	12	54' 10" e	47' 11" e	40' 5" e	49' 10" e	43' 6" e	36' 8" e	44' 7" e	40' 5" e	34' 1" e	40' 9" e	38' 0" e	32' 1" e	37' 8" e	36' 1" e	30' 5" e	35' 3" e	34' 6" e	29' 1" e
	16	49' 10" e	43' 6" e	36' 8" e	43' 2" e	39' 6" e	33' 4" e	38' 8" e	36' 8" e	30' 11" e	35' 3" e	34' 6" e	29' 1" e	32' 8" e	32' 8" e	27' 8" e	30' 6" e	30' 6" e	26' 6" e
	24	40' 9" e	38' 0" e	32' 1" e	35' 3" e	34' 6" e	29' 1" e	31' 6" e	31' 6" e	27' 0" e	28' 10" e	28' 10" e	25' 5" e	26' 8" e	26' 8" e	24' 2" e	24' 11" e	24' 11" e	23' 1" e
1400S162-97	12	62' 5" e	54' 6" e	46' 0" e	56' 8" e	49' 6" e	41' 9" e	52' 7" e	46' 0" e	38' 9" e	49' 6" e	43' 3" e	36' 6" e	47' 0" e	41' 1" e	34' 8" e	45' 0" e	39' 4" e	33' 2" e
	16	56' 8" e	49' 6" e	41' 9" e	51' 6" e	45' 0" e	37' 11" e	47' 10" e	41' 9" e	35' 3" e	45' 0" e	39' 4" e	33' 2" e	42' 9" e	37' 4" e	31' 6" e	40' 0" e	35' 9" e	30' 1" e
	24	49' 6" e	43' 3" e	36' 6" e	45' 0" e	39' 4" e	33' 2" e	41' 4" e	36' 6" e	30' 9" e	37' 9" e	34' 4" e	29' 0" e	34' 11" e	32' 7" e	27' 6" e	32' 8" e	31' 2" e	26' 4" e
1400S200-54	12	52' 4" e	45' 11" e	38' 8" e	45' 4" e	41' 8" e	35' 2" e	40' 7" e	38' 8" e	32' 8" e	37' 0" e	36' 5" e	30' 9" e	34' 3" e	34' 3" e	29' 2" e	32' 1" e	32' 1" e	27' 11" e
	16	45' 4" e	41' 8" e	35' 2" e	39' 3" e	37' 10" e	31' 11" e	35' 2" e	35' 2" e	29' 8" e	32' 1" e	32' 1" e	27' 11" e	29' 8" e	29' 8" e	26' 6" e	27' 9" e	27' 9" e	25' 4" e
	24	37' 0" e	36' 5" e	30' 9" e	32' 1" e	32' 1" e	27' 11" e	28' 8" e	28' 8" e	25' 11" e	26' 2" e	26' 2" e	24' 5" e	24' 3" e	24' 3" e	23' 2" e	22' 8" e	22' 8" e	22' 2" e
1400S200-68	12	57' 1" e	49' 10" e	42' 1" e	51' 10" e	45' 4" e	38' 3" e	48' 2" e	42' 1" e	35' 6" e	44' 0" e	39' 7" e	33' 5" e	40' 9" e	37' 7" e	31' 9" e	38' 1" e	36' 0" e	30' 4" e
	16	51' 10" e	45' 4" e	38' 3" e	46' 8" e	41' 2" e	34' 9" e	41' 9" e	38' 3" e	32' 3" e	38' 1" e	36' 0" e	30' 4" e	35' 3" e	34' 2" e	28' 10" e	33' 0" e	32' 8" e	27' 7" e
	24	44' 0" e	39' 7" e	33' 5" e	38' 1" e	36' 0" e	30' 4" e	34' 1" e	33' 5" e	28' 2" e	31' 1" e	31' 1" e	26' 6" e	28' 10" e	28' 10" e	25' 2" e	26' 11" e	26' 11" e	24' 1" e
1400S200-97	12	64' 10" e	56' 7" e	47' 9" e	58' 11" e	51' 5" e	43' 5" e	54' 8" e	47' 9" e	40' 3" e	51' 5" e	44' 11" e	37' 11" e	48' 10" e	42' 8" e	36' 0" e	46' 9" e	40' 10" e	34' 5" e
	16	58' 11" e	51' 5" e	43' 5" e	53' 6" e	46' 9" e	39' 5" e	49' 8" e	43' 5" e	36' 7" e	46' 9" e	40' 10" e	34' 5" e	44' 5" e	38' 9" e	32' 9" e	42' 6" e	37' 1" e	31' 3" e
	24	51' 5" e	44' 11" e	37' 11" e	46' 9" e	40' 10" e	34' 5" e	43' 5" e	37' 11" e	32' 0" e	40' 5" e	35' 8" e	30' 1" e	37' 5" e	33' 11" e	28' 7" e	35' 0" e	32' 5" e	27' 4" e
1400S250-54	12	54' 5" e	47' 9" e	40' 3" e	47' 1" e	43' 5" e	36' 7" e	42' 2" e	40' 3" e	34' 0" e	38' 6" e	37' 11" e	32' 0" e	35' 7" e	35' 7" e	30' 4" e	33' 4" e	33' 4" e	29' 0" e
	16	47' 1" e	43' 5" e	36' 7" e	40' 10" e	39' 5" e	33' 3" e	36' 6" e	36' 6" e	30' 10" e	33' 4" e	33' 4" e	29' 0" e	30' 10" e	30' 10" e	27' 7" e	28' 10" e	28' 10" e	26' 5" e
	24	38' 6" e	37' 11" e	32' 0" e	33' 4" e	33' 4" e	29' 0" e	29' 10" e	29' 10" e	26' 11" e	27' 2" e	27' 2" e	25' 4" e	25' 2" e	25' 2" e	24' 1" e	23' 7" e	23' 7" e	23' 1" e
1400S250-68	12	59' 5" e	51' 11" e	43' 9" e	54' 0" e	47' 2" e	39' 9" e	50' 0" e	43' 9" e	36' 11" e	45' 8" e	41' 2" e	34' 9" e	42' 3" e	39' 1" e	33' 0" e	39' 7" e	37' 5" e	31' 7" e
	16	54' 0" e	47' 2" e	39' 9" e	48' 5" e	42' 10" e	36' 2" e	43' 4" e	39' 9" e	33' 6" e	39' 7" e	37' 5" e	31' 7" e	36' 7" e	35' 7" e	30' 0" e	34' 3" e	34' 0" e	28' 8" e
	24	45' 8" e	41' 2" e	34' 9" e	39' 7" e	37' 5" e	31' 7" e	35' 4" e	34' 9" e	29' 4" e	32' 3" e	32' 3" e	27' 7" e	29' 11" e	29' 11" e	26' 2" e	28' 0" e	28' 0" e	25' 1" e
1400S250-97	12	67' 3" e	58' 9" e	49' 6" e	61' 1" e	53' 4" e	45' 0" e	56' 8" e	49' 6" e	41' 9" e	53' 4" e	46' 7" e	39' 4" e	50' 8" e	44' 3" e	37' 4" e	48' 6" e	42' 4" e	35' 9" e
	16	61' 1" e	53' 4" e	45' 0" e	55' 6" e	48' 6" e	40' 11" e	51' 6" e	45' 0" e	37' 11" e	48' 6" e	42' 4" e	35' 9" e	46' 1" e	40' 3" e	33' 11" e	44' 1" e	38' 6" e	32' 5" e
	24	53' 4" e	46' 7" e	39' 4" e	48' 6" e	42' 4" e	35' 9" e	45' 0" e	39' 4" e	33' 2" e	41' 11" e	37' 0" e	31' 2" e	38' 10" e	35' 2" e	29' 8" e	36' 3" e	33' 7" e	28' 4" e
1400S300-54	12	55' 5" e	48' 5" e	40' 10" e	48' 3" e	44' 0" e	37' 1" e	43' 2" e	40' 10" e	34' 5" e	39' 5" e	38' 5" e	32' 5" e	36' 6" e	36' 6" e	30' 9" e	34' 1" e	34' 1" e	29' 5" e
	16	48' 3" e	44' 0" e	37' 1" e	41' 9" e	39' 11" e	33' 8" e	37' 5" e	37' 1" e	31' 3" e	34' 1" e	34' 1" e	29' 5" e	31' 7" e	31' 7" e	28' 0" e	29' 7" e	29' 7" e	26' 9" e
	24	39' 5" e	38' 5" e	32' 5" e	34' 1" e	34' 1" e	29' 5" e	30' 6" e	30' 6" e	27' 4" e	27' 10" e	27' 10" e	25' 9" e	25' 10" e	25' 10" e	24' 5" e	24' 2" e	24' 2" e	23' 4" e
1400S300-68	12	61' 0" e	53' 3" e	44' 11" e	55' 5" e	48' 5" e	40' 10" e	51' 2" e	44' 11" e	37' 11" e	46' 9" e	42' 3" e	35' 8" e	43' 3" e	40' 2" e	33' 10" e	40' 6" e	38' 5" e	32' 5" e
	16	55' 5" e	48' 5" e	40' 10" e	49' 7" e	44' 0" e	37' 1" e	44' 4" e	40' 10" e	34' 5" e	40' 6" e	38' 5" e	32' 5" e	37' 6" e	36' 6" e	30' 9" e	35' 1" e	34' 11" e	29' 5" e
	24	46' 9" e	42' 3" e	35' 8" e	40' 6" e	38' 5" e	32' 5" e	36' 2" e	35' 8" e	30' 1" e	33' 1" e	33' 1" e	28' 4" e	30' 7" e	30' 7" e	26' 11" e	28' 7" e	28' 7" e	25' 9" e
1400S300-97	12	69' 3" e	60' 6" e	51' 0" e	62' 11" e	55' 0" e	46' 4" e	58' 5" e	51' 0" e	43' 1" e	55' 0" e	48' 0" e	40' 6" e	52' 3" e	45' 7" e	38' 6" e	49' 11" e	43' 8" e	36' 10" e
	16	62' 11" e	55' 0" e	46' 4" e	57' 2" e	49' 11" e	42' 2" e	53' 1" e	46' 4" e	39' 1" e	49' 11" e	43' 8" e	36' 10" e	47' 5" e	41' 5" e	35' 0" e	45' 5" e	39' 8" e	33' 5" e
	24	45' 0" e	48' 0" e	40' 6" e	49' 11" e	43' 8" e	36' 10" e	46' 4" e	40' 6" e	34' 2" e	42' 11" e	38' 1" e	32' 2" e	39' 8" e	36' 3" e	30' 6" e	37' 2" e	34' 8" e	29' 3" e

"e" = web stiffeners required at ends.

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section, and shear moment interaction through the perforated section 10" away from the end bearing.
- A 1/3 stress increase is not used.
- Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- Listed limiting heights are based on steel properties only.
- Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi=0$.
- Cells marked with an " * " have $h/t > 200$, and thus require end stiffeners.
- Capacities are calculated according to the AISI-NASPEC S100-2012. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil studs.
- For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3.
- Lateral loads have not been modified for strength checks. Full loads are applied.

Complies with AISI S100-12 • IBC 2015



ALLOWABLE AXIAL & LATERAL LOAD TABLES

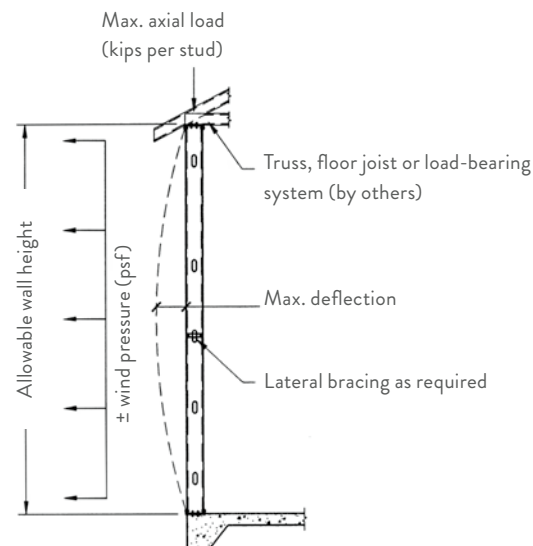
Overview

Allowable combined axial & lateral loads.

Load-bearing walls must be capable of handling vertical loads even when subjected to lateral loads from wind or another force. The following tables identify the axial (vertical) load that can be supported by each member under given lateral load conditions.

General Notes:

- 1 Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- 2 Listed lateral pressures and axial loads have not been modified for 1/3 stress increase based on wind/earthquake or multiple transient loads.
- 3 For material thickness of 33mil and 43mil, $F_y=33\text{ksi}$; for 54mil and thicker, $F_y=50\text{ksi}$.
- 4 Allowable loads based on weak axis and torsional horizontal mechanical bracing at 48" o.c. maximum for axial load calculations, and continuous support for each flange for flexural calculations.
- 5 With the exception of 5psf interior walls, wind pressures have been multiplied by 0.70 for deflection determination, in accordance with footnote "f" of IBC table 1604.3.
- 6 Stud distortional buckling based on an assumed $K\phi=0$.
- 7 The strength increase due to cold work of forming was incorporated for flexural strength as applicable per section A7.2 of AISI S100-2012.
- 8 The allowable axial loads do not include the effects of the sheathing materials.



Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 5psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
3-5/8" Stud	8	12	1.88 a	2.65 a	4.16 a	5.39 a	7.87 a	2.26 a	3.29 a	5.19 a	6.69 a	9.54 a	3.72 a	5.83 a	7.77 a	11.04 a	
		16	1.81 a	2.58 a	4.09 a	5.32 a	7.79 a	2.18 a	3.21 a	5.11 a	6.61 a	9.46 a	3.64 a	5.74 a	7.69 a	10.96 a	
		24	1.66 a	2.43 a	3.95 a	5.18 a	7.63 a	2.03 a	3.05 a	4.96 a	6.46 a	9.30 a	3.47 a	5.58 a	7.52 a	10.81 a	
	9	12	1.74 a	2.49 a	3.86 a	4.99 a	7.28 a	2.11 a	3.08 a	4.80 a	6.17 a	8.81 a	3.53 a	5.47 a	7.18 a	10.22 a	
		16	1.65 a	2.39 a	3.78 a	4.91 a	7.18 a	2.01 a	2.98 a	4.71 a	6.08 a	8.71 a	3.42 a	5.37 a	7.08 a	10.13 a	
		24	1.47 a	2.21 a	3.61 a	4.73 a	6.98 a	1.82 a	2.78 a	4.52 a	5.89 a	8.51 a	3.20 a	5.16 a	6.87 a	9.93 a	
	10	12	1.59 a	2.30 a	3.54 a	4.55 a	6.62 a	1.94 a	2.85 a	4.38 a	5.62 a	8.02 a	3.31 a	5.10 a	6.55 a	9.35 a	
		16	1.48 a	2.19 a	3.43 a	4.45 a	6.50 a	1.82 a	2.72 a	4.26 a	5.50 a	7.90 a	3.17 a	4.97 a	6.42 a	9.23 a	
		24	1.28 a	1.97 a	3.23 a	4.25 a	6.27 a	1.60 a	2.49 a	4.04 a	5.28 a	7.66 a	2.91 a	4.72 a	6.18 a	9.00 a	
	12	12	1.26 a	1.88 a	2.80 a	3.61 a	5.23 a	1.58 a	2.34 a	3.47 a	4.45 a	6.36 a	2.76 a	4.08 a	5.23 a	7.51 a	
		16	1.13 a	1.74 a	2.67 a	3.48 a	5.08 a	1.42 a	2.18 a	3.33 a	4.31 a	6.21 a	2.58 a	3.92 a	5.07 a	7.36 a	
		24	0.88 c	1.47 b	2.44 a	3.24 a	4.80 a	1.15 c	1.89 a	3.06 a	4.05 a	5.92 a	2.25 a	3.62 a	4.77 a	7.07 a	
	14	12	0.94 b	1.46 a	2.15 a	2.79 a	4.03 a	1.20 a	1.83 a	2.66 a	3.45 a	4.94 a	2.18 a	3.14 a	4.07 a	5.89 a	
		16	0.79 d	1.30 b	2.01 a	2.65 a	3.87 a	1.03 c	1.65 b	2.50 a	3.29 a	4.77 a	1.98 a	2.97 a	3.89 a	5.72 a	
		24	0.53 e	1.01 d	1.77 c	2.40 b	3.58 a	0.74 d	1.34 d	2.23 c	3.01 a	4.46 a	1.62 c	2.65 b	3.57 a	5.40 a	
	16	12	0.67 d	1.08 c	1.64 b	2.15 a	3.12 a	0.86 c	1.38 b	2.03 a	2.67 a	3.85 a	1.65 a	2.42 a	3.17 a	4.64 a	
		16	0.52 e	0.92 d	1.50 c	2.01 b	2.96 a	0.70 d	1.20 c	1.88 c	2.51 a	3.68 a	1.45 c	2.24 b	2.99 a	4.47 a	
		24	0.27 f	0.64 e	1.26 e	1.76 d	2.67 c	0.41 e	0.89 e	1.61 d	2.24 c	3.37 b	1.10 d	1.93 d	2.67 c	4.14 a	

4" Stud	8	12	2.04 a	2.88 a	4.62 a	6.19 a	9.08 a	2.43 a	3.56 a	5.78 a	7.64 a	11.03 a	3.97 a	6.28 a	8.68 a	12.77 a
		16	1.97 a	2.81 a	4.56 a	6.12 a	9.01 a	2.35 a	3.48 a	5.71 a	7.57 a	10.95 a	3.89 a	6.20 a	8.60 a	12.70 a
		24	1.83 a	2.67 a	4.43 a	5.99 a	8.86 a	2.21 a	3.34 a	5.56 a	7.42 a	10.80 a	3.74 a	6.06 a	8.45 a	12.55 a
	9	12	1.92 a	2.73 a	4.37 a	5.86 a	8.56 a	2.29 a	3.38 a	5.44 a	7.20 a	10.36 a	3.80 a	6.04 a	8.29 a	12.01 a
		16	1.83 a	2.65 a	4.29 a	5.78 a	8.46 a	2.20 a	3.28 a	5.35 a	7.11 a	10.26 a	3.70 a	5.95 a	8.19 a	11.91 a
		24	1.66 a	2.47 a	4.12 a	5.61 a	8.27 a	2.02 a	3.09 a	5.16 a	6.92 a	10.06 a	3.51 a	5.75 a	7.99 a	11.72 a
	10	12	1.78 a	2.57 a	4.08 a	5.48 a	7.95 a	2.15 a	3.17 a	5.06 a	6.71 a	9.61 a	3.61 a	5.72 a	7.80 a	11.16 a
		16	1.68 a	2.46 a	3.98 a	5.38 a	7.83 a	2.03 a	3.05 a	4.94 a	6.59 a	9.48 a	3.49 a	5.60 a	7.67 a	11.04 a
		24	1.48 a	2.25 a	3.78 a	5.17 a	7.60 a	1.82 a	2.83 a	4.72 a	6.36 a	9.24 a	3.25 a	5.36 a	7.41 a	10.81 a
	12	12	1.48 a	2.19 a	3.42 a	4.56 a	6.58 a	1.81 a	2.70 a	4.21 a	5.58 a	7.97 a	3.16 a	4.94 a	6.52 a	9.34 a
		16	1.34 a	2.04 a	3.28 a	4.42 a	6.42 a	1.66 a	2.55 a	4.06 a	5.42 a	7.80 a	2.99 a	4.77 a	6.34 a	9.17 a
		24	1.08 b	1.77 a	3.03 a	4.15 a	6.11 a	1.38 a	2.25 a	3.77 a	5.13 a	7.48 a	2.66 a	4.45 a	6.01 a	8.86 a
	14	12	1.15 a	1.77 a	2.72 a	3.59 a	5.17 a	1.45 a	2.20 a	3.35 a	4.40 a	6.30 a	2.61 a	3.94 a	5.18 a	7.48 a
		16	1.00 c	1.60 a	2.57 a	3.43 a	4.99 a	1.27 b	2.02 a	3.17 a	4.23 a	6.12 a	2.40 a	3.75 a	4.98 a	7.29 a
		24	0.72 d	1.30 c	2.29 b	3.14 a	4.66 a	0.96 d	1.68 b	2.86 a	3.90 a	5.76 a	2.02 b	3.39 a	4.61 a	6.93 a
	16	12	0.86 c	1.38 b	2.13 a	2.80 a	4.04 a	1.10 b	1.73 a	2.62 a	3.44 a	4.95 a	2.06 a	3.10 a	4.06 a	5.93 a
		16	0.70 d	1.20 c	1.97 b	2.64 a	3.85 a	0.92 d	1.53 b	2.44 a	3.26 a	4.76 a	1.84 b	2.89 a	3.85 a	5.73 a
		24	0.41 e	0.88 e	1.69 d	2.34 c	3.52 b	0.60 e	1.19 d	2.13 c	2.93 b	4.40 a	1.45 d	2.53 c	3.48 b	5.36 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 5psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	8	12	2.42 a	3.39 a	5.61 a	7.45 a	11.40 a	2.86 a	4.31 a	7.46 a	9.97 a	15.65 a	4.65 a	7.64 a	11.05 a	18.28 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	15.60 a	4.60 a	7.59 a	11.00 a	18.22 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	4.50 a	7.50 a	10.90 a	18.12 a	
	9	12	2.38 a	3.36 a	5.57 a	7.41 a	11.36 a	2.80 a	4.23 a	7.31 a	9.79 a	15.39 a	4.57 a	7.51 a	10.85 a	17.92 a	
		16	2.32 a	3.30 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	4.50 a	7.44 a	10.78 a	17.85 a	
		24	2.20 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	15.20 a	4.37 a	7.32 a	10.64 a	17.72 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	4.47 a	7.35 a	10.60 a	17.49 a	
		16	2.25 a	3.24 a	5.46 a	7.30 a	11.26 a	2.65 a	4.05 a	7.05 a	9.50 a	14.99 a	4.39 a	7.27 a	10.52 a	17.41 a	
		24	2.10 a	3.11 a	5.33 a	7.17 a	11.13 a	2.50 a	3.88 a	6.89 a	9.34 a	14.83 a	4.23 a	7.11 a	10.35 a	17.23 a	
	12	12	2.17 a	3.15 a	5.35 a	7.25 a	11.20 a	2.55 a	3.88 a	6.67 a	9.00 a	14.21 a	4.24 a	6.94 a	10.00 a	16.41 a	
		16	2.06 a	3.05 a	5.25 a	7.15 a	11.10 a	2.44 a	3.76 a	6.55 a	8.89 a	14.09 a	4.11 a	6.82 a	9.87 a	16.28 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	3.88 a	6.59 a	9.62 a	16.02 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	3.94 a	6.46 a	9.26 a	15.07 a	
		16	1.81 a	2.78 a	4.80 a	6.63 a	10.80 a	2.17 a	3.40 a	5.91 a	8.10 a	12.91 a	3.77 a	6.29 a	9.08 a	14.88 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	3.45 a	5.98 a	8.73 a	14.52 a	
	16	12	1.71 a	2.62 a	4.41 a	6.10 a	9.89 a	2.05 a	3.18 a	5.38 a	7.38 a	11.74 a	3.59 a	5.96 a	8.44 a	13.53 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	3.38 a	5.75 a	8.21 a	13.29 a	
		24	1.20 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	2.98 a	5.34 a	7.76 a	12.82 a	

8" Stud	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	4.89 a	8.17 a	11.80 a	19.77 a
		16	2.36 a*	3.32 a	5.40 a	7.22 a	11.24 a	2.93 a*	4.44 a	7.71 a	10.25 a	15.95 a	4.86 a	8.14 a	11.76 a	19.73 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	4.78 a	8.06 a	11.69 a	19.66 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	4.85 a	8.10 a	11.72 a	19.65 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	4.80 a	8.06 a	11.68 a	19.60 a
		24	2.24 a*	3.21 a	5.30 a	7.12 a	11.14 a	2.80 a*	4.30 a	7.57 a	10.13 a	15.83 a	4.70 a	7.97 a	11.58 a	19.51 a
	10	12	2.33 a*	3.30 a	5.38 a	7.20 a	11.21 a	2.90 a*	4.41 a	7.68 a	10.22 a	15.92 a	4.79 a	8.02 a	11.63 a	19.51 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	4.73 a	7.97 a	11.57 a	19.45 a
		24	2.18 a*	3.15 a	5.24 a	7.06 a	11.08 a	2.73 a*	4.23 a	7.50 a	10.06 a	15.77 a	4.61 a	7.85 a	11.45 a	19.33 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	4.66 a	7.81 a	11.39 a	19.12 a
		16	2.18 a*	3.15 a	5.24 a	7.06 a	11.08 a	2.74 a*	4.23 a	7.50 a	10.06 a	15.76 a	4.57 a	7.73 a	11.29 a	19.03 a
		24	2.03 a*	3.00 a	5.11 a	6.93 a	10.95 a	2.57 a*	4.06 a	7.32 a	9.90 a	15.61 a	4.39 a	7.56 a	11.11 a	18.84 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	4.48 a	7.52 a	10.99 a	18.47 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	4.36 a	7.40 a	10.86 a	18.34 a
		24	1.85 a*	2.83 a	4.94 a	6.76 a	10.77 a	2.35 a*	3.80 a	6.99 a	9.61 a	15.38 a	4.12 a	7.17 a	10.60 a	18.08 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	4.26 a	7.15 a	10.42 a	17.50 a
		16	1.92 a*	2.89 a	4.98 a	6.80 a	10.81 a	2.37 a*	3.77 a	6.78 a	9.30 a	15.00 a	4.10 a	6.99 a	10.25 a	17.32 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	9.00 a	14.68 a	3.78 a	6.69 a	9.92 a	16.97 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_u .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 15psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
3-5/8" Stud	8	12	1.45 a	2.22 a	3.75 a	4.98 a	7.41 a	1.80 a	2.82 a	4.74 a	6.24 a	9.07 a	3.22 a	5.35 a	7.28 a	10.59 a	
		16	1.25 a	2.02 a	3.56 a	4.78 a	7.19 a	1.58 a	2.59 a	4.52 a	6.03 a	8.84 a	2.98 a	5.12 a	7.04 a	10.36 a	
		24	0.88 a	1.63 a	3.20 a	4.41 a	6.76 a	1.18 a	2.17 a	4.11 a	5.62 a	8.40 a	2.53 a	4.68 a	6.58 a	9.93 a	
	9	12	1.22 a	1.95 a	3.37 a	4.49 a	6.70 a	1.55 a	2.50 a	4.24 a	5.62 a	8.22 a	2.90 a	4.87 a	6.57 a	9.65 a	
		16	0.99 a	1.71 a	3.14 a	4.25 a	6.43 a	1.29 a	2.23 a	3.98 a	5.37 a	7.94 a	2.61 a	4.59 a	6.28 a	9.38 a	
		24	0.56 c	1.26 a	2.71 a	3.80 a	5.92 a	0.82 b	1.73 a	3.50 a	4.88 a	7.41 a	2.07 a	4.06 a	5.74 a	8.85 a	
	10	12	0.99 a	1.67 a	2.95 a	3.96 a	5.95 a	1.28 a	2.16 a	3.72 a	4.97 a	7.32 a	2.55 a	4.37 a	5.83 a	8.66 a	
		16	0.73 b	1.40 a	2.69 a	3.69 a	5.64 a	1.00 a	1.85 a	3.43 a	4.68 a	7.00 a	2.22 a	4.04 a	5.50 a	8.34 a	
		24	0.26 d	0.89 c	2.22 b	3.19 a	5.06 a	0.48 c	1.30 b	2.89 a	4.13 a	6.40 a	1.60 a	3.44 a	4.88 a	7.74 a	
	12	12	0.55 d	1.12 b	2.12 a	2.91 a	4.43 a	0.78 c	1.50 a	2.70 a	3.68 a	5.52 a	1.82 a	3.21 a	4.36 a	6.66 a	
		16	0.27 e	0.81 d	1.83 c	2.61 b	4.08 a	0.46 d	1.15 c	2.37 b	3.36 a	5.16 a	1.43 b	2.85 a	3.99 a	6.29 a	
		24	—	0.26 e	1.32 d	2.07 d	3.46 b	—	0.54 d	1.80 d	2.77 c	4.49 a	0.74 d	2.19 c	3.32 b	5.60 a	
	14	12	0.20 e	0.65 d	1.44 d	2.06 c	3.19 a	0.36 e	0.93 d	1.86 c	2.64 b	4.05 a	1.17 c	2.24 b	3.15 a	4.98 a	
		16	—	0.33 e	1.16 e	1.76 d	2.85 c	0.03 e	0.58 e	1.54 d	2.31 c	3.68 b	0.77 d	1.88 c	2.77 b	4.59 a	
		24	—	—	0.67 f	1.23 e	2.24 d	—	—	0.99 e	1.74 e	3.03 d	0.08 e	1.24 e	2.11 d	3.90 c	
	16	12	—	0.29 e	0.95 e	1.43 d	2.29 c	0.05 f	0.50 e	1.26 d	1.88 d	2.97 b	0.66 e	1.53 d	2.26 c	3.72 a	
		16	—	—	0.68 f	1.15 e	1.96 d	—	0.16 f	0.95 e	1.56 e	2.61 d	0.27 e	1.19 e	1.90 d	3.34 c	
		24	—	—	0.22 f	0.65 f	1.39 e	—	—	0.43 f	1.02 f	1.99 e	—	0.59 f	1.27 e	2.68 d	

4" Stud	8	12	1.63 a	2.47 a	4.24 a	5.79 a	8.64 a	2.00 a	3.12 a	5.35 a	7.20 a	10.57 a	3.51 a	5.84 a	8.21 a	12.32 a
		16	1.44 a	2.28 a	4.05 a	5.60 a	8.42 a	1.79 a	2.90 a	5.14 a	6.99 a	10.34 a	3.29 a	5.63 a	7.98 a	12.10 a
		24	1.08 a	1.90 a	3.69 a	5.22 a	7.99 a	1.40 a	2.49 a	4.73 a	6.58 a	9.90 a	2.86 a	5.21 a	7.54 a	11.67 a
	9	12	1.42 a	2.23 a	3.89 a	5.36 a	7.99 a	1.76 a	2.82 a	4.90 a	6.65 a	9.77 a	3.22 a	5.47 a	7.69 a	11.43 a
		16	1.19 a	1.99 a	3.66 a	5.12 a	7.71 a	1.51 a	2.56 a	4.64 a	6.38 a	9.49 a	2.95 a	5.20 a	7.40 a	11.15 a
		24	0.76 b	1.54 a	3.23 a	4.66 a	7.19 a	1.05 a	2.07 a	4.15 a	5.88 a	8.94 a	2.42 a	4.69 a	6.84 a	10.62 a
	10	12	1.19 a	1.96 a	3.50 a	4.87 a	7.26 a	1.51 a	2.51 a	4.40 a	6.03 a	8.89 a	2.90 a	5.02 a	7.05 a	10.46 a
		16	0.93 a	1.68 a	3.23 a	4.58 a	6.93 a	1.23 a	2.20 a	4.10 a	5.72 a	8.55 a	2.58 a	4.70 a	6.70 a	10.13 a
		24	0.45 c	1.18 b	2.74 a	4.05 a	6.33 a	0.70 b	1.64 a	3.54 a	5.14 a	7.92 a	1.97 a	4.09 a	6.05 a	9.49 a
	12	12	0.74 b	1.41 a	2.68 a	3.77 a	5.69 a	1.01 b	1.85 a	3.38 a	4.72 a	7.04 a	2.22 a	4.01 a	5.55 a	8.41 a
		16	0.44 d	1.08 c	2.36 b	3.43 a	5.30 a	0.67 c	1.48 b	3.02 a	4.34 a	6.63 a	1.81 a	3.61 a	5.13 a	7.99 a
		24	—	0.49 d	1.79 d	2.82 c	4.60 a	0.07 e	0.84 d	2.39 c	3.67 b	5.88 a	1.09 c	2.88 b	4.37 a	7.22 a
	14	12	0.35 d	0.90 c	1.91 c	2.75 a	4.21 a	0.55 d	1.24 c	2.44 b	3.47 a	5.29 a	1.53 b	2.92 a	4.12 a	6.44 a
		16	0.04 e	0.55 d	1.59 d	2.40 c	3.81 a	0.20 e	0.86 d	2.08 c	3.08 b	4.86 a	1.10 c	2.51 b	3.69 a	5.99 a
		24	—	—	1.02 e	1.79 d	3.11 c	—	0.19 e	1.44 e	2.41 d	4.11 c	0.35 e	1.78 d	2.92 c	5.20 b
	16	12	0.05 e	0.49 e	1.32 d	1.96 c	3.08 b	0.19 e	0.74 d	1.72 d	2.51 c	3.93 a	0.95 d	2.07 c	3.00 b	4.86 a
		16	—	0.14 e	1.00 e	1.62 d	2.70 c	—	0.36 e	1.36 e	2.14 d	3.52 c	0.52 e	1.66 d	2.58 c	4.42 b
		24	—	—	0.46 f	1.05 e	2.03 e	—	—	0.75 f	1.50 e	2.79 d	—	0.97 e	1.85 e	3.65 d

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 15psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	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	4.34 a	7.35 a	10.74 a	17.96 a	
		16	2.00 a	3.02 a	5.25 a	7.10 a	11.06 a	2.43 a	3.86 a	7.01 a	9.55 a	15.23 a	4.19 a	7.21 a	10.58 a	17.81 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	3.89 a	6.92 a	10.27 a	17.50 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	4.17 a	7.13 a	10.44 a	17.51 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	3.98 a	6.95 a	10.24 a	17.31 a	
		24	1.51 a	2.56 a	4.81 a	6.67 a	10.63 a	1.90 a	3.27 a	6.35 a	8.89 a	14.48 a	3.60 a	6.58 a	9.84 a	16.91 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	14.60 a	3.98 a	6.88 a	10.09 a	16.98 a	
		16	1.67 a	2.71 a	4.94 a	6.80 a	10.75 a	2.06 a	3.41 a	6.41 a	8.89 a	14.37 a	3.74 a	6.65 a	9.84 a	16.72 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	3.28 a	6.20 a	9.35 a	16.22 a	
	12	12	1.54 a	2.56 a	4.76 a	6.66 a	10.60 a	1.91 a	3.19 a	5.96 a	8.33 a	13.50 a	3.53 a	6.26 a	9.24 a	15.64 a	
		16	1.25 a	2.28 a	4.48 a	6.37 a	10.30 a	1.60 a	2.86 a	5.63 a	8.00 a	13.16 a	3.19 a	5.93 a	8.88 a	15.26 a	
		24	0.70 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	12.50 a	2.55 a	5.29 a	8.18 a	14.53 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	12.10 a	3.00 a	5.53 a	8.23 a	13.99 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	2.57 a	5.10 a	7.75 a	13.49 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	1.76 a	4.30 a	6.86 a	12.53 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	10.50 a	2.43 a	4.78 a	7.14 a	12.17 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	1.92 a	4.26 a	6.56 a	11.55 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	1.00 c	3.32 b	5.51 a	10.43 a	

8" Stud	8	12	2.20 a*	3.17 a	5.26 a	7.08 a	11.10 a	2.75 a*	4.25 a	7.53 a	10.09 a	15.80 a	4.67 a	7.96 a	11.57 a	19.55 a
		16	2.10 a*	3.07 a	5.18 a	7.00 a	11.02 a	2.65 a*	4.14 a	7.42 a	9.99 a	15.70 a	4.55 a	7.85 a	11.46 a	19.44 a
		24	1.90 a*	2.89 a	5.01 a	6.84 a	10.86 a	2.44 a*	3.93 a	7.21 a	9.80 a	15.52 a	4.33 a	7.63 a	11.23 a	19.21 a
	9	12	2.12 a*	3.09 a	5.19 a	7.01 a	11.03 a	2.67 a*	4.16 a	7.44 a	10.00 a	15.71 a	4.56 a	7.83 a	11.43 a	19.36 a
		16	1.99 a*	2.97 a	5.08 a	6.91 a	10.93 a	2.53 a*	4.02 a	7.30 a	9.88 a	15.59 a	4.41 a	7.69 a	11.28 a	19.22 a
		24	1.75 a*	2.73 a	4.87 a	6.69 a	10.72 a	2.27 a*	3.74 a	7.02 a	9.63 a	15.35 a	4.13 a	7.42 a	10.99 a	18.93 a
	10	12	2.02 a*	3.00 a	5.11 a	6.93 a	10.95 a	2.57 a*	4.05 a	7.33 a	9.91 a	15.62 a	4.43 a	7.68 a	11.26 a	19.14 a
		16	1.87 a*	2.85 a	4.97 a	6.80 a	10.82 a	2.40 a*	3.88 a	7.15 a	9.75 a	15.46 a	4.25 a	7.51 a	11.08 a	18.96 a
		24	1.57 a*	2.56 a	4.70 a	6.53 a	10.56 a	2.07 a*	3.54 a	6.81 a	9.43 a	15.16 a	3.90 a	7.17 a	10.72 a	18.60 a
	12	12	1.81 a*	2.79 a	4.91 a	6.73 a	10.75 a	2.33 a*	3.80 a	7.06 a	9.66 a	15.37 a	4.13 a	7.30 a	10.84 a	18.57 a
		16	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	3.87 a	7.06 a	10.57 a	18.30 a
		24	1.16 a*	2.15 a	4.31 a	6.15 a	10.17 a	1.63 a*	3.05 a	6.30 a	8.95 a	14.68 a	3.37 a	6.56 a	10.03 a	17.76 a
	14	12	1.55 a*	2.53 a	4.65 a	6.48 a	10.49 a	2.03 a*	3.45 a	6.63 a	9.28 a	15.04 a	3.76 a	6.82 a	10.22 a	17.69 a
		16	1.25 a*	2.24 a	4.38 a	6.20 a	10.21 a	1.71 a*	3.11 a	6.28 a	8.94 a	14.71 a	3.42 a	6.48 a	9.85 a	17.31 a
		24	0.69 a*	1.68 a	3.84 a	5.67 a	9.66 a	1.10 a*	2.46 a	5.59 a	8.29 a	14.05 a	2.74 a	5.82 a	9.12 a	16.57 a
	16	12	1.25 a*	2.23 a	4.35 a	6.16 a	10.15 a	1.68 a*	3.02 a	6.00 a	8.55 a	14.23 a	3.33 a	6.24 a	9.42 a	16.46 a
		16	0.88 a*	1.86 a	3.98 a	5.80 a	9.77 a	1.28 a*	2.59 a	5.55 a	8.13 a	13.78 a	2.89 a	5.81 a	8.95 a	15.96 a
		24	0.19 b*	1.15 a	3.29 a	5.09 a	9.04 a	0.54 a*	1.79 a	4.71 a	7.30 a	12.92 a	2.06 a	4.98 a	8.03 a	15.00 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_u .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 20psf		S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97	
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	
3-5/8" Stud	8	12	1.25 a	2.02 a	3.56 a	4.78 a	7.19 a	1.58 a	2.59 a	4.52 a	6.03 a	8.84 a	2.98 a	5.12 a	7.04 a	10.36 a
		16	1.00 a	1.76 a	3.32 a	4.53 a	6.90 a	1.31 a	2.30 a	4.24 a	5.75 a	8.54 a	2.68 a	4.82 a	6.73 a	10.07 a
		24	0.53 b	1.27 a	2.85 a	4.05 a	6.35 a	0.80 b	1.76 a	3.71 a	5.22 a	7.97 a	2.09 a	4.26 a	6.14 a	9.51 a
	9	12	0.99 a	1.71 a	3.14 a	4.25 a	6.43 a	1.29 a	2.23 a	3.98 a	5.37 a	7.94 a	2.61 a	4.59 a	6.28 a	9.38 a
		16	0.70 b	1.40 a	2.85 a	3.95 a	6.09 a	0.97 a	1.89 a	3.65 a	5.04 a	7.58 a	2.24 a	4.23 a	5.91 a	9.02 a
		24	0.17 d	0.84 c	2.31 b	3.39 a	5.44 a	0.39 c	1.27 b	3.04 a	4.42 a	6.91 a	1.56 a	3.57 a	5.22 a	8.35 a
	10	12	0.73 b	1.40 a	2.69 a	3.69 a	5.64 a	1.00 a	1.85 a	3.43 a	4.68 a	7.00 a	2.22 a	4.04 a	5.50 a	8.34 a
		16	0.41 d	1.05 c	2.37 a	3.35 a	5.25 a	0.64 c	1.48 b	3.06 a	4.31 a	6.59 a	1.80 a	3.63 a	5.08 a	7.93 a
		24	—	0.44 d	1.78 c	2.74 b	4.53 a	0.01 d	0.80 d	2.40 c	3.63 b	5.84 a	1.05 c	2.89 b	4.32 a	7.17 a
	12	12	0.27 e	0.81 d	1.83 c	2.61 b	4.08 a	0.46 d	1.15 c	2.37 b	3.36 a	5.16 a	1.43 b	2.85 a	3.99 a	6.29 a
		16	—	0.43 e	1.48 d	2.24 c	3.66 b	0.07 e	0.74 d	1.98 c	2.95 b	4.71 a	0.96 d	2.40 c	3.53 a	5.82 a
		24	—	—	0.88 e	1.60 e	2.90 d	—	0.01 e	1.29 e	2.24 d	3.90 c	0.15 e	1.62 d	2.72 c	4.99 b
	14	12	—	0.33 e	1.16 e	1.76 d	2.85 c	0.03 e	0.58 e	1.54 d	2.31 c	3.68 b	0.77 d	1.88 c	2.77 b	4.59 a
		16	—	—	0.82 e	1.40 e	2.43 d	—	0.17 e	1.16 e	1.92 d	3.23 c	0.30 e	1.44 d	2.32 d	4.12 b
		24	—	—	0.24 f	0.78 f	1.71 e	—	—	0.51 f	1.23 e	2.45 e	—	0.70 e	1.54 e	3.30 d
	16	12	—	—	0.68 f	1.15 e	1.96 d	—	0.16 f	0.95 e	1.56 e	2.61 d	0.27 e	1.19 e	1.90 d	3.34 c
		16	—	—	0.37 f	0.81 f	1.57 e	—	—	0.60 f	1.19 e	2.19 e	—	0.78 e	1.47 e	2.89 d
		24	—	—	—	0.23 f	0.90 f	—	—	—	0.55 f	1.46 f	—	0.08 f	0.73 f	2.11 e

4" Stud	8	12	1.44 a	2.28 a	4.05 a	5.60 a	8.42 a	1.79 a	2.90 a	5.14 a	6.99 a	10.34 a	3.29 a	5.63 a	7.98 a	12.10 a
		16	1.20 a	2.03 a	3.81 a	5.35 a	8.13 a	1.53 a	2.63 a	4.87 a	6.71 a	10.05 a	3.00 a	5.35 a	7.69 a	11.81 a
		24	0.73 a	1.55 a	3.35 a	4.86 a	7.58 a	1.03 a	2.10 a	4.35 a	6.18 a	9.48 a	2.45 a	4.81 a	7.11 a	11.25 a
	9	12	1.19 a	1.99 a	3.66 a	5.12 a	7.71 a	1.51 a	2.56 a	4.64 a	6.38 a	9.49 a	2.95 a	5.20 a	7.40 a	11.15 a
		16	0.90 a	1.69 a	3.37 a	4.81 a	7.36 a	1.20 a	2.23 a	4.31 a	6.04 a	9.12 a	2.59 a	4.86 a	7.02 a	10.79 a
		24	0.37 c	1.13 b	2.82 a	4.22 a	6.70 a	0.62 b	1.61 a	3.69 a	5.40 a	8.43 a	1.93 a	4.20 a	6.32 a	10.10 a
	10	12	0.93 a	1.68 a	3.23 a	4.58 a	6.93 a	1.23 a	2.20 a	4.10 a	5.72 a	8.55 a	2.58 a	4.70 a	6.70 a	10.13 a
		16	0.61 c	1.34 a	2.90 a	4.22 a	6.52 a	0.87 b	1.82 a	3.72 a	5.33 a	8.13 a	2.17 a	4.29 a	6.26 a	9.70 a
		24	0.02 d	0.71 c	2.28 b	3.56 a	5.76 a	0.23 d	1.13 c	3.03 a	4.60 a	7.33 a	1.41 b	3.53 a	5.44 a	8.89 a
	12	12	0.44 d	1.08 c	2.36 b	3.43 a	5.30 a	0.67 c	1.48 b	3.02 a	4.34 a	6.63 a	1.81 a	3.61 a	5.13 a	7.99 a
		16	0.07 e	0.68 d	1.97 c	3.02 b	4.82 a	0.26 d	1.04 c	2.59 b	3.88 a	6.12 a	1.32 c	3.11 a	4.61 a	7.47 a
		24	—	—	1.29 e	2.28 d	3.96 c	—	0.27 e	1.82 d	3.06 c	5.21 b	0.46 d	2.24 c	3.69 b	6.53 a
	14	12	0.04 e	0.55 d	1.59 d	2.40 c	3.81 a	0.20 e	0.86 d	2.08 c	3.08 b	4.86 a	1.10 c	2.51 b	3.69 a	5.99 a
		16	—	0.14 e	1.20 e	1.98 d	3.33 c	—	0.40 e	1.64 d	2.62 c	4.35 b	0.58 d	2.01 d	3.16 c	5.45 a
		24	—	—	0.52 f	1.26 e	2.49 d	—	—	0.88 e	1.82 e	3.44 d	—	1.14 e	2.24 d	4.49 c
	16	12	—	0.14 e	1.00 e	1.62 d	2.70 c	—	0.36 e	1.36 e	2.14 d	3.52 c	0.52 e	1.66 d	2.58 c	4.42 b
		16	—	—	0.63 f	1.23 e	2.24 d	—	—	0.94 e	1.70 e	3.02 d	0.02 e	1.19 e	2.08 d	3.90 c
		24	—	—	—	0.55 f	1.45 e	—	—	0.23 f	0.94 f	2.17 e	—	0.37 f	1.21 e	2.98 e

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 20psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	8	12	2.00 a	3.02 a	5.25 a	7.10 a	11.06 a	2.43 a	3.86 a	7.01 a	9.55 a	15.23 a	4.19 a	7.21 a	10.58 a	17.81 a	
		16	1.82 a	2.85 a	5.10 a	6.95 a	10.92 a	2.25 a	3.66 a	6.81 a	9.36 a	15.04 a	3.99 a	7.01 a	10.37 a	17.60 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	9.00 a	14.67 a	3.59 a	6.63 a	9.96 a	17.19 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	3.98 a	6.95 a	10.24 a	17.31 a	
		16	1.62 a	2.66 a	4.91 a	6.77 a	10.73 a	2.02 a	3.40 a	6.48 a	9.01 a	14.60 a	3.72 a	6.70 a	9.97 a	17.04 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	3.22 a	6.22 a	9.45 a	16.51 a	
	10	12	1.67 a	2.71 a	4.94 a	6.80 a	10.75 a	2.06 a	3.41 a	6.41 a	8.89 a	14.37 a	3.74 a	6.65 a	9.84 a	16.72 a	
		16	1.40 a	2.45 a	4.69 a	6.55 a	10.50 a	1.77 a	3.11 a	6.10 a	8.59 a	14.07 a	3.43 a	6.35 a	9.51 a	16.38 a	
		24	0.86 a	1.94 a	4.20 a	6.06 a	10.02 a	1.22 a	2.51 a	5.49 a	8.02 a	13.47 a	2.82 a	5.76 a	8.86 a	15.72 a	
	12	12	1.25 a	2.28 a	4.48 a	6.37 a	10.30 a	1.60 a	2.86 a	5.63 a	8.00 a	13.16 a	3.19 a	5.93 a	8.88 a	15.26 a	
		16	0.88 a	1.92 a	4.11 a	6.00 a	9.92 a	1.22 a	2.44 a	5.19 a	7.58 a	12.72 a	2.76 a	5.50 a	8.41 a	14.77 a	
		24	0.19 c	1.24 a	3.43 a	5.30 a	9.19 a	0.50 b	1.66 a	4.37 a	6.77 a	11.86 a	1.94 a	4.69 a	7.51 a	13.83 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	2.57 a	5.10 a	7.75 a	13.49 a	
		16	0.35 c	1.33 b	3.33 a	5.10 a	9.09 a	0.64 b	1.73 a	4.18 a	6.38 a	11.06 a	2.02 a	4.56 a	7.15 a	12.85 a	
		24	—	0.52 d	2.50 c	4.21 a	8.09 a	—	0.79 c	3.19 b	5.39 a	9.97 a	1.03 b	3.56 a	6.02 a	11.64 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	1.92 a	4.26 a	6.56 a	11.55 a	
		16	—	0.75 d	2.52 c	4.08 a	7.58 a	0.10 d	1.04 c	3.16 b	5.14 a	9.25 a	1.29 b	3.62 a	5.85 a	10.79 a	
		24	—	—	1.60 d	3.09 c	6.44 b	—	0.01 d	2.09 d	4.03 c	8.01 a	0.17 d	2.48 c	4.57 b	9.41 a	

8" Stud	8	12	2.10 a*	3.07 a	5.18 a	7.00 a	11.02 a	2.65 a*	4.14 a	7.42 a	9.99 a	15.70 a	4.55 a	7.85 a	11.46 a	19.44 a
		16	1.97 a*	2.95 a	5.07 a	6.89 a	10.91 a	2.51 a*	4.00 a	7.28 a	9.86 a	15.58 a	4.40 a	7.70 a	11.31 a	19.29 a
		24	1.71 a*	2.70 a	4.84 a	6.67 a	10.70 a	2.23 a*	3.71 a	6.99 a	9.60 a	15.33 a	4.10 a	7.42 a	11.00 a	18.99 a
	9	12	1.99 a*	2.97 a	5.08 a	6.91 a	10.93 a	2.53 a*	4.02 a	7.30 a	9.88 a	15.59 a	4.41 a	7.69 a	11.28 a	19.22 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	4.22 a	7.51 a	11.09 a	19.03 a
		24	1.50 a*	2.50 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	3.84 a	7.14 a	10.70 a	18.65 a
	10	12	1.87 a*	2.85 a	4.97 a	6.80 a	10.82 a	2.40 a*	3.88 a	7.15 a	9.75 a	15.46 a	4.25 a	7.51 a	11.08 a	18.96 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	4.02 a	7.28 a	10.84 a	18.72 a
		24	1.27 a*	2.27 a	4.44 a	6.27 a	10.30 a	1.75 a*	3.20 a	6.47 a	9.12 a	14.86 a	3.55 a	6.83 a	10.35 a	18.24 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	3.87 a	7.06 a	10.57 a	18.30 a
		16	1.30 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	3.53 a	6.73 a	10.21 a	17.94 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	2.87 a	6.08 a	9.51 a	17.23 a
	14	12	1.25 a*	2.24 a	4.38 a	6.20 a	10.21 a	1.71 a*	3.11 a	6.28 a	8.94 a	14.71 a	3.42 a	6.48 a	9.85 a	17.31 a
		16	0.87 a*	1.86 a	4.02 a	5.84 a	9.84 a	1.30 a*	2.67 a	5.82 a	8.51 a	14.27 a	2.96 a	6.04 a	9.36 a	16.81 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	2.10 a	5.19 a	8.42 a	15.84 a
	16	12	0.88 a*	1.86 a	3.98 a	5.80 a	9.77 a	1.28 a*	2.59 a	5.55 a	8.13 a	13.78 a	2.89 a	5.81 a	8.95 a	15.96 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	13.20 a	2.33 a	5.25 a	8.33 a	15.32 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	1.28 a	4.19 a	7.15 a	14.08 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_u .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 25psf		S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97	
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	
3-5/8" Stud	8	12	1.06 a	1.82 a	3.38 a	4.59 a	6.97 a	1.38 a	2.38 a	4.31 a	5.82 a	8.62 a	2.75 a	4.89 a	6.81 a	10.15 a
		16	0.76 a	1.51 a	3.08 a	4.29 a	6.62 a	1.05 a	2.03 a	3.97 a	5.48 a	8.26 a	2.38 a	4.53 a	6.43 a	9.79 a
		24	0.20 c	0.92 b	2.52 a	3.70 a	5.96 a	0.44 c	1.38 a	3.34 a	4.85 a	7.56 a	1.68 a	3.85 a	5.72 a	9.10 a
	9	12	0.77 b	1.48 a	2.92 a	4.02 a	6.17 a	1.05 a	1.97 a	3.73 a	5.12 a	7.67 a	2.33 a	4.32 a	6.00 a	9.11 a
		16	0.43 c	1.12 b	2.57 a	3.66 a	5.76 a	0.67 c	1.57 a	3.34 a	4.72 a	7.24 a	1.89 a	3.89 a	5.56 a	8.68 a
		24	—	0.46 d	1.94 c	3.00 b	4.99 a	—	0.84 c	2.62 b	3.99 a	6.43 a	1.09 b	3.10 a	4.74 a	7.87 a
	10	12	0.49 c	1.14 b	2.45 a	3.44 a	5.34 a	0.73 c	1.57 a	3.15 a	4.40 a	6.69 a	1.90 a	3.73 a	5.18 a	8.03 a
		16	0.12 d	0.74 d	2.07 c	3.04 a	4.88 a	0.32 d	1.13 c	2.72 b	3.96 a	6.21 a	1.41 b	3.25 a	4.69 a	7.55 a
		24	—	0.03 e	1.38 d	2.32 c	4.04 b	—	0.34 d	1.95 d	3.17 c	5.32 a	0.54 d	2.38 c	3.80 b	6.64 a
	12	12	0.01 e	0.52 d	1.57 d	2.33 c	3.76 a	0.16 e	0.84 d	2.07 c	3.05 b	4.82 a	1.07 c	2.51 b	3.64 a	5.93 a
		16	—	0.09 e	1.17 e	1.91 d	3.27 c	—	0.36 e	1.62 d	2.58 c	4.29 b	0.54 d	1.99 d	3.11 c	5.39 a
		24	—	—	0.47 f	1.17 e	2.40 d	—	—	0.83 e	1.77 e	3.36 d	—	1.10 e	2.18 d	4.42 c
	14	12	—	0.05 f	0.90 e	1.49 e	2.53 d	—	0.27 e	1.25 e	2.01 d	3.34 c	0.41 e	1.55 d	2.43 c	4.23 b
		16	—	—	0.52 f	1.08 e	2.06 e	—	—	0.82 e	1.56 e	2.83 d	—	1.05 e	1.91 d	3.69 c
		24	—	—	—	0.37 f	1.24 f	—	—	0.08 f	0.78 f	1.94 e	—	0.21 f	1.02 e	2.75 e
	16	12	—	—	0.44 f	0.89 f	1.67 e	—	—	0.68 f	1.28 e	2.29 d	—	0.88 e	1.57 e	3.00 d
		16	—	—	0.08 f	0.51 f	1.22 f	—	—	0.28 f	0.86 f	1.81 e	—	0.41 f	1.08 e	2.48 e
		24	—	—	—	—	0.47 f	—	—	—	0.13 f	0.98 f	—	—	0.25 f	1.59 f

4" Stud	8	12	1.26 a	2.09 a	3.87 a	5.41 a	8.20 a	1.59 a	2.70 a	4.94 a	6.78 a	10.12 a	3.07 a	5.42 a	7.76 a	11.89 a
		16	0.96 a	1.78 a	3.58 a	5.10 a	7.86 a	1.28 a	2.36 a	4.60 a	6.45 a	9.76 a	2.72 a	5.08 a	7.39 a	11.53 a
		24	0.41 b	1.21 a	3.02 a	4.51 a	7.19 a	0.68 b	1.73 a	3.97 a	5.80 a	9.06 a	2.05 a	4.42 a	6.69 a	10.84 a
	9	12	0.97 a	1.76 a	3.44 a	4.88 a	7.45 a	1.28 a	2.31 a	4.39 a	6.13 a	9.21 a	2.68 a	4.94 a	7.12 a	10.88 a
		16	0.63 b	1.40 a	3.09 a	4.51 a	7.02 a	0.91 a	1.92 a	3.99 a	5.72 a	8.77 a	2.26 a	4.52 a	6.66 a	10.44 a
		24	—	0.73 c	2.43 b	3.81 a	6.22 a	0.22 c	1.18 b	3.25 a	4.95 a	7.93 a	1.47 a	3.74 a	5.81 a	9.60 a
	10	12	0.68 b	1.42 a	2.98 a	4.31 a	6.62 a	0.96 a	1.92 a	3.82 a	5.42 a	8.23 a	2.27 a	4.39 a	6.37 a	9.81 a
		16	0.30 d	1.02 b	2.58 a	3.88 a	6.13 a	0.54 c	1.47 b	3.37 a	4.95 a	7.72 a	1.78 a	3.90 a	5.84 a	9.29 a
		24	—	0.28 d	1.86 c	3.10 b	5.23 a	—	0.65 d	2.55 c	4.09 b	6.77 a	0.90 c	3.01 b	4.88 a	8.33 a
	12	12	0.16 d	0.77 d	2.07 c	3.12 b	4.94 a	0.36 d	1.15 c	2.70 b	3.99 a	6.24 a	1.44 b	3.23 a	4.74 a	7.60 a
		16	—	0.32 e	1.62 d	2.64 c	4.38 b	—	0.64 d	2.19 c	3.46 b	5.65 a	0.87 d	2.66 c	4.13 a	6.98 a
		24	—	—	0.83 e	1.79 e	3.39 d	—	—	1.31 e	2.51 d	4.59 c	—	1.66 d	3.07 c	5.88 b
	14	12	—	0.24 e	1.29 e	2.08 d	3.45 c	—	0.51 e	1.74 d	2.73 c	4.47 b	0.71 d	2.13 c	3.29 b	5.58 a
		16	—	—	0.84 e	1.61 e	2.90 d	—	—	1.24 e	2.20 d	3.88 c	0.12 e	1.56 d	2.68 d	4.95 b
		24	—	—	0.08 f	0.78 f	1.94 e	—	—	0.38 f	1.29 e	2.84 e	—	0.58 e	1.64 e	3.86 d
	16	12	—	—	0.72 e	1.32 e	2.35 d	—	0.02 f	1.04 e	1.80 e	3.14 d	0.14 e	1.30 e	2.20 d	4.02 c
		16	—	—	0.29 f	0.87 f	1.83 e	—	—	0.57 f	1.30 e	2.57 e	—	0.76 e	1.63 e	3.42 d
		24	—	—	—	0.10 f	0.94 f	—	—	—	0.45 f	1.60 f	—	—	0.65 f	2.38 e

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 25psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	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	4.04 a	7.06 a	10.43 a	17.65 a	
		16	1.64 a	2.69 a	4.94 a	6.80 a	10.77 a	2.06 a	3.46 a	6.61 a	9.18 a	14.86 a	3.79 a	6.82 a	10.17 a	17.39 a	
		24	1.21 a	2.28 a	4.56 a	6.43 a	10.40 a	1.60 a	2.98 a	6.12 a	8.72 a	14.40 a	3.29 a	6.35 a	9.65 a	16.88 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	3.79 a	6.76 a	10.04 a	17.11 a	
		16	1.40 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	3.47 a	6.46 a	9.71 a	16.78 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	2.85 a	5.87 a	9.06 a	16.12 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	3.51 a	6.42 a	9.59 a	16.47 a	
		16	1.13 a	2.19 a	4.44 a	6.30 a	10.26 a	1.49 a	2.81 a	5.79 a	8.30 a	13.77 a	3.12 a	6.05 a	9.18 a	16.05 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	2.38 a	5.32 a	8.39 a	15.24 a	
	12	12	0.97 a	2.01 a	4.20 a	6.09 a	10.02 a	1.31 a	2.55 a	5.30 a	7.68 a	12.83 a	2.87 a	5.61 a	8.53 a	14.89 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	2.34 a	5.09 a	7.95 a	14.29 a	
		24	—	0.76 b	2.94 a	4.79 a	8.66 a	—	1.10 b	3.79 a	6.20 a	11.25 a	1.36 a	4.11 a	6.86 a	13.15 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	11.20 a	2.16 a	4.69 a	7.30 a	13.00 a	
		16	—	0.91 c	2.90 b	4.65 a	8.58 a	0.21 c	1.25 b	3.67 a	5.87 a	10.50 a	1.51 a	4.05 a	6.57 a	12.23 a	
		24	—	—	1.92 d	3.60 c	7.39 a	—	0.15 d	2.52 c	4.70 b	9.21 a	0.34 c	2.86 b	5.24 a	10.80 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	1.44 b	3.78 a	6.02 a	10.97 a	
		16	—	0.29 d	2.04 d	3.57 c	6.99 a	—	0.50 d	2.61 c	4.57 b	8.61 a	0.71 c	3.03 b	5.18 a	10.08 a	
		24	—	—	0.98 e	2.42 d	5.67 c	—	—	1.37 d	3.28 d	7.16 b	—	1.70 d	3.70 c	8.47 b	

8" Stud	8	12	2.00 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	4.44 a	7.74 a	11.34 a	19.32 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	4.25 a	7.56 a	11.15 a	19.14 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	3.88 a	7.21 a	10.78 a	18.77 a
	9	12	1.87 a*	2.85 a	4.97 a	6.80 a	10.82 a	2.40 a*	3.88 a	7.16 a	9.75 a	15.47 a	4.27 a	7.55 a	11.14 a	19.08 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	4.03 a	7.33 a	10.90 a	18.84 a
		24	1.26 a*	2.26 a	4.44 a	6.28 a	10.31 a	1.75 a*	3.20 a	6.48 a	9.13 a	14.87 a	3.56 a	6.87 a	10.41 a	18.36 a
	10	12	1.72 a*	2.70 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	4.08 a	7.34 a	10.90 a	18.78 a
		16	1.47 a*	2.46 a	4.61 a	6.45 a	10.47 a	1.97 a*	3.42 a	6.70 a	9.33 a	15.06 a	3.78 a	7.05 a	10.59 a	18.48 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	3.20 a	6.50 a	9.99 a	17.89 a
	12	12	1.37 a*	2.36 a	4.51 a	6.34 a	10.36 a	1.86 a*	3.30 a	6.55 a	9.19 a	14.91 a	3.62 a	6.81 a	10.30 a	18.03 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	8.80 a	14.53 a	3.20 a	6.40 a	9.86 a	17.58 a
		24	0.33 a*	1.34 a	3.55 a	5.39 a	9.40 a	0.73 a*	2.10 a	5.32 a	8.04 a	13.78 a	2.39 a	5.61 a	8.99 a	16.70 a
	14	12	0.97 a*	1.96 a	4.11 a	5.93 a	9.94 a	1.40 a*	2.78 a	5.93 a	8.61 a	14.38 a	3.08 a	6.15 a	9.48 a	16.94 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	2.53 a	5.61 a	8.89 a	16.32 a
		24	—	0.62 a	2.82 a	4.64 a	8.60 a	—	1.22 a	4.30 a	7.05 a	12.79 a	1.47 a	4.57 a	7.74 a	15.13 a
	16	12	0.53 a*	1.50 a	3.63 a	5.44 a	9.40 a	0.91 a*	2.18 a	5.12 a	7.71 a	13.34 a	2.47 a	5.39 a	8.48 a	15.48 a
		16	—	0.93 a	3.07 a	4.87 a	8.80 a	0.31 b*	1.53 a	4.44 a	7.04 a	12.64 a	1.79 a	4.71 a	7.73 a	14.69 a
		24	—	—	2.01 b	3.78 a	7.66 a	—	0.32 c	3.15 a	5.77 a	11.30 a	0.53 b	3.45 a	6.32 a	13.19 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 30psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
3-5/8" Stud	8	12	0.88 a	1.63 a	3.20 a	4.41 a	6.76 a	1.18 a	2.17 a	4.11 a	5.62 a	8.40 a	2.53 a	4.68 a	6.58 a	9.93 a	
		16	0.53 b	1.27 a	2.85 a	4.05 a	6.35 a	0.80 b	1.76 a	3.71 a	5.22 a	7.97 a	2.09 a	4.26 a	6.14 a	9.51 a	
		24	—	0.60 c	2.21 b	3.37 a	5.58 a	0.10 d	1.02 b	2.98 a	4.48 a	7.17 a	1.29 b	3.47 a	5.31 a	8.71 a	
	9	12	0.56 c	1.26 a	2.71 a	3.80 a	5.92 a	0.82 b	1.73 a	3.50 a	4.88 a	7.41 a	2.07 a	4.06 a	5.74 a	8.85 a	
		16	0.17 d	0.84 c	2.31 b	3.39 a	5.44 a	0.39 c	1.27 b	3.04 a	4.42 a	6.91 a	1.56 a	3.57 a	5.22 a	8.35 a	
		24	—	0.09 d	1.58 d	2.62 c	4.56 a	—	0.44 d	2.22 c	3.58 b	5.98 a	0.65 c	2.66 b	4.28 a	7.41 a	
	10	12	0.26 d	0.89 c	2.22 b	3.19 a	5.06 a	0.48 c	1.30 b	2.89 a	4.13 a	6.40 a	1.60 a	3.44 a	4.88 a	7.74 a	
		16	—	0.44 d	1.78 c	2.74 b	4.53 a	0.01 d	0.80 d	2.40 c	3.63 b	5.84 a	1.05 c	2.89 b	4.32 a	7.17 a	
		24	—	—	1.01 e	1.92 d	3.58 c	—	—	1.53 d	2.73 d	4.83 b	0.06 d	1.91 d	3.30 c	6.14 a	
	12	12	—	0.26 e	1.32 d	2.07 d	3.46 b	—	0.54 d	1.80 d	2.77 c	4.49 a	0.74 d	2.19 c	3.32 b	5.60 a	
		16	—	—	0.88 e	1.60 e	2.90 d	—	0.01 e	1.29 e	2.24 d	3.90 c	0.15 e	1.62 d	2.72 c	4.99 b	
		24	—	—	0.10 f	0.77 f	1.94 e	—	—	0.41 f	1.33 e	2.86 d	—	0.62 e	1.68 e	3.89 d	
	14	12	—	—	0.67 f	1.23 e	2.24 d	—	—	0.99 e	1.74 e	3.03 d	0.08 e	1.24 e	2.11 d	3.90 c	
		16	—	—	0.24 f	0.78 f	1.71 e	—	—	0.51 f	1.23 e	2.45 e	—	0.70 e	1.54 e	3.30 d	
		24	—	—	—	—	0.80 f	—	—	—	0.37 f	1.47 f	—	—	0.55 f	2.24 e	
	16	12	—	—	0.22 f	0.65 f	1.39 e	—	—	0.43 f	1.02 f	1.99 e	—	0.59 f	1.27 e	2.68 d	
		16	—	—	—	0.23 f	0.90 f	—	—	—	0.55 f	1.46 f	—	0.08 f	0.73 f	2.11 e	
		24	—	—	—	—	0.07 f	—	—	—	—	0.54 f	—	—	—	1.12 f	

4" Stud	8	12	1.08 a	1.90 a	3.69 a	5.22 a	7.99 a	1.40 a	2.49 a	4.73 a	6.58 a	9.90 a	2.86 a	5.21 a	7.54 a	11.67 a
		16	0.73 a	1.55 a	3.35 a	4.86 a	7.58 a	1.03 a	2.10 a	4.35 a	6.18 a	9.48 a	2.45 a	4.81 a	7.11 a	11.25 a
		24	0.10 c	0.88 b	2.70 a	4.18 a	6.80 a	0.34 c	1.37 a	3.61 a	5.42 a	8.66 a	1.67 a	4.05 a	6.28 a	10.43 a
	9	12	0.76 b	1.54 a	3.23 a	4.66 a	7.19 a	1.05 a	2.07 a	4.15 a	5.88 a	8.94 a	2.42 a	4.69 a	6.84 a	10.62 a
		16	0.37 c	1.13 b	2.82 a	4.22 a	6.70 a	0.62 b	1.61 a	3.69 a	5.40 a	8.43 a	1.93 a	4.20 a	6.32 a	10.10 a
		24	—	0.36 d	2.07 c	3.42 b	5.77 a	—	0.77 c	2.84 b	4.51 a	7.45 a	1.03 b	3.29 a	5.33 a	9.12 a
	10	12	0.45 c	1.18 b	2.74 a	4.05 a	6.33 a	0.70 b	1.64 a	3.54 a	5.14 a	7.92 a	1.97 a	4.09 a	6.05 a	9.49 a
		16	0.02 d	0.71 c	2.28 b	3.56 a	5.76 a	0.23 d	1.13 c	3.03 a	4.60 a	7.33 a	1.41 b	3.53 a	5.44 a	8.89 a
		24	—	—	1.46 d	2.67 c	4.73 b	—	0.21 d	2.10 c	3.61 c	6.24 a	0.41 d	2.52 c	4.34 b	7.79 a
	12	12	—	0.49 d	1.79 d	2.82 c	4.60 a	0.07 e	0.84 d	2.39 c	3.67 b	5.88 a	1.09 c	2.88 b	4.37 a	7.22 a
		16	—	—	1.29 e	2.28 d	3.96 c	—	0.27 e	1.82 d	3.06 c	5.21 b	0.46 d	2.24 c	3.69 b	6.53 a
		24	—	—	0.41 f	1.33 e	2.86 d	—	—	0.84 e	2.01 e	4.02 d	—	1.12 e	2.49 d	5.29 c
	14	12	—	—	1.02 e	1.79 d	3.11 c	—	0.19 e	1.44 e	2.41 d	4.11 c	0.35 e	1.78 d	2.92 c	5.20 b
		16	—	—	0.52 f	1.26 e	2.49 d	—	—	0.88 e	1.82 e	3.44 d	—	1.14 e	2.24 d	4.49 c
		24	—	—	—	0.35 f	1.43 e	—	—	—	0.80 f	2.29 e	—	0.06 f	1.09 e	3.27 e
	16	12	—	—	0.46 f	1.05 e	2.03 e	—	—	0.75 f	1.50 e	2.79 d	—	0.97 e	1.85 e	3.65 d
		16	—	—	—	0.55 f	1.45 e	—	—	0.23 f	0.94 f	2.17 e	—	0.37 f	1.21 e	2.98 e
		24	—	—	—	—	0.46 f	—	—	—	—	1.09 f	—	—	0.13 f	1.83 f

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- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 30psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	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	3.89 a	6.92 a	10.27 a	17.50 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	9.00 a	14.67 a	3.59 a	6.63 a	9.96 a	17.19 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	3.00 a	6.07 a	9.35 a	16.58 a	
	9	12	1.51 a	2.56 a	4.81 a	6.67 a	10.63 a	1.90 a	3.27 a	6.35 a	8.89 a	14.48 a	3.60 a	6.58 a	9.84 a	16.91 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	3.22 a	6.22 a	9.45 a	16.51 a	
		24	0.54 a	1.65 a	3.94 a	5.81 a	9.78 a	0.90 a	2.20 a	5.26 a	7.85 a	13.42 a	2.49 a	5.52 a	8.68 a	15.73 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	3.28 a	6.20 a	9.35 a	16.22 a	
		16	0.86 a	1.94 a	4.20 a	6.06 a	10.02 a	1.22 a	2.51 a	5.49 a	8.02 a	13.47 a	2.82 a	5.76 a	8.86 a	15.72 a	
		24	0.11 b	1.22 a	3.50 a	5.36 a	9.31 a	0.44 a	1.67 a	4.62 a	7.18 a	12.60 a	1.95 a	4.90 a	7.92 a	14.76 a	
	12	12	0.70 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	12.50 a	2.55 a	5.29 a	8.18 a	14.53 a	
		16	0.19 c	1.24 a	3.43 a	5.30 a	9.19 a	0.50 b	1.66 a	4.37 a	6.77 a	11.86 a	1.94 a	4.69 a	7.51 a	13.83 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	0.80 b	3.56 a	6.24 a	12.49 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	1.76 a	4.30 a	6.86 a	12.53 a	
		16	—	0.52 d	2.50 c	4.21 a	8.09 a	—	0.79 c	3.19 b	5.39 a	9.97 a	1.03 b	3.56 a	6.02 a	11.64 a	
		24	—	—	1.38 d	3.02 c	6.74 b	—	—	1.88 d	4.06 c	8.49 a	—	2.21 c	4.51 b	10.00 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	1.00 c	3.32 b	5.51 a	10.43 a	
		16	—	—	1.60 d	3.09 c	6.44 b	—	0.01 d	2.09 d	4.03 c	8.01 a	0.17 d	2.48 c	4.57 b	9.41 a	
		24	—	—	0.40 e	1.80 e	4.95 d	—	—	0.70 e	2.59 d	6.38 c	—	0.98 e	2.90 d	7.59 c	

8" Stud	8	12	1.90 a*	2.89 a	5.01 a	6.84 a	10.86 a	2.44 a*	3.93 a	7.21 a	9.80 a	15.52 a	4.33 a	7.63 a	11.23 a	19.21 a
		16	1.71 a*	2.70 a	4.84 a	6.67 a	10.70 a	2.23 a*	3.71 a	6.99 a	9.60 a	15.33 a	4.10 a	7.42 a	11.00 a	18.99 a
		24	1.33 a*	2.33 a	4.50 a	6.34 a	10.38 a	1.82 a*	3.28 a	6.57 a	9.22 a	14.96 a	3.65 a	6.99 a	10.55 a	18.55 a
	9	12	1.75 a*	2.73 a	4.87 a	6.69 a	10.72 a	2.27 a*	3.74 a	7.02 a	9.63 a	15.35 a	4.13 a	7.42 a	10.99 a	18.93 a
		16	1.50 a*	2.50 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	3.84 a	7.14 a	10.70 a	18.65 a
		24	1.02 a*	2.03 a	4.22 a	6.07 a	10.10 a	1.49 a*	2.92 a	6.21 a	8.88 a	14.64 a	3.28 a	6.60 a	10.13 a	18.08 a
	10	12	1.57 a*	2.56 a	4.70 a	6.53 a	10.56 a	2.07 a*	3.54 a	6.81 a	9.43 a	15.16 a	3.90 a	7.17 a	10.72 a	18.60 a
		16	1.27 a*	2.27 a	4.44 a	6.27 a	10.30 a	1.75 a*	3.20 a	6.47 a	9.12 a	14.86 a	3.55 a	6.83 a	10.35 a	18.24 a
		24	0.68 a*	1.70 a	3.91 a	5.75 a	9.79 a	1.12 a*	2.53 a	5.80 a	8.50 a	14.26 a	2.86 a	6.16 a	9.64 a	17.53 a
	12	12	1.16 a*	2.15 a	4.31 a	6.15 a	10.17 a	1.63 a*	3.05 a	6.30 a	8.95 a	14.68 a	3.37 a	6.56 a	10.03 a	17.76 a
		16	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	2.87 a	6.08 a	9.51 a	17.23 a
		24	—	0.95 a	3.17 a	5.02 a	9.03 a	0.31 a*	1.64 a	4.85 a	7.59 a	13.34 a	1.91 a	5.14 a	8.48 a	16.19 a
	14	12	0.69 a*	1.68 a	3.84 a	5.67 a	9.66 a	1.10 a*	2.46 a	5.59 a	8.29 a	14.05 a	2.74 a	5.82 a	9.12 a	16.57 a
		16	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	2.10 a	5.19 a	8.42 a	15.84 a
		24	—	0.12 b	2.33 a	4.14 a	8.09 a	—	0.64 a	3.69 a	6.45 a	12.18 a	0.87 a	3.97 a	7.07 a	14.43 a
	16	12	0.19 b*	1.15 a	3.29 a	5.09 a	9.04 a	0.54 a*	1.79 a	4.71 a	7.30 a	12.92 a	2.06 a	4.98 a	8.03 a	15.00 a
		16	—	0.49 b	2.63 a	4.42 a	8.34 a	—	1.03 a	3.91 a	6.52 a	12.09 a	1.28 a	4.19 a	7.15 a	14.08 a
		24	—	—	1.41 c	3.16 b	7.00 a	—	—	2.44 b	5.06 a	10.53 a	—	2.73 b	5.52 a	12.34 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 35psf		S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97	
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	
3-5/8" Stud	8	12	0.70 b	1.45 a	3.02 a	4.23 a	6.55 a	0.98 a	1.96 a	3.91 a	5.42 a	8.18 a	2.31 a	4.46 a	6.36 a	9.72 a
		16	0.31 c	1.04 b	2.63 a	3.82 a	6.09 a	0.56 b	1.51 a	3.46 a	4.97 a	7.70 a	1.82 a	3.99 a	5.86 a	9.24 a
		24	—	0.28 d	1.90 c	3.06 b	5.21 a	—	0.68 c	2.63 b	4.13 a	6.78 a	0.91 b	3.09 a	4.92 a	8.32 a
	9	12	0.36 c	1.05 b	2.50 a	3.59 a	5.68 a	0.60 c	1.49 a	3.27 a	4.65 a	7.16 a	1.81 a	3.81 a	5.48 a	8.60 a
		16	—	0.58 d	2.06 c	3.12 b	5.14 a	0.12 d	0.98 c	2.76 b	4.13 a	6.59 a	1.25 b	3.25 a	4.90 a	8.03 a
		24	—	—	1.25 d	2.27 d	4.15 b	—	0.06 d	1.84 d	3.19 c	5.54 a	0.23 d	2.25 c	3.84 b	6.97 a
	10	12	0.05 e	0.66 d	1.99 c	2.96 b	4.79 a	0.24 d	1.04 c	2.64 b	3.88 a	6.11 a	1.32 b	3.16 a	4.60 a	7.45 a
		16	—	0.17 e	1.51 d	2.45 c	4.20 b	—	0.49 d	2.09 c	3.32 b	5.49 a	0.70 d	2.55 c	3.97 b	6.82 a
		24	—	—	0.66 e	1.55 e	3.15 d	—	—	1.13 e	2.32 d	4.37 c	—	1.46 d	2.84 d	5.66 b
	12	12	—	0.01 e	1.09 e	1.83 d	3.17 c	—	0.27 e	1.54 d	2.50 d	4.19 b	0.44 d	1.90 d	3.01 c	5.29 a
		16	—	—	0.60 e	1.31 e	2.56 d	—	—	0.98 e	1.92 e	3.54 d	—	1.27 e	2.35 d	4.60 c
		24	—	—	—	0.40 f	1.51 e	—	—	0.03 f	0.92 f	2.39 e	—	0.18 f	1.21 e	3.40 d
	14	12	—	—	0.45 f	1.00 e	1.97 e	—	—	0.74 e	1.48 e	2.73 d	—	0.96 e	1.82 e	3.59 d
		16	—	—	—	0.51 f	1.39 e	—	—	0.22 f	0.93 f	2.11 e	—	0.36 f	1.19 e	2.93 e
		24	—	—	—	—	0.40 f	—	—	—	—	1.03 f	—	—	0.11 f	1.78 f
	16	12	—	—	0.02 f	0.43 f	1.14 f	—	—	0.20 f	0.78 f	1.72 e	—	0.33 f	0.99 f	2.38 e
		16	—	—	—	—	0.61 f	—	—	—	0.27 f	1.13 f	—	—	0.41 f	1.76 f
		24	—	—	—	—	—	—	—	—	—	0.14 f	—	—	—	0.69 f

4" Stud	8	12	0.90 a	1.72 a	3.52 a	5.04 a	7.79 a	1.21 a	2.30 a	4.54 a	6.38 a	9.69 a	2.65 a	5.01 a	7.32 a	11.46 a
		16	0.52 b	1.32 a	3.13 a	4.63 a	7.32 a	0.79 a	1.85 a	4.10 a	5.92 a	9.20 a	2.18 a	4.55 a	6.83 a	10.97 a
		24	—	0.57 c	2.40 b	3.85 a	6.43 a	0.02 c	1.02 b	3.26 a	5.06 a	8.26 a	1.30 a	3.68 a	5.89 a	10.04 a
	9	12	0.56 b	1.33 a	3.02 a	4.44 a	6.94 a	0.83 b	1.84 a	3.92 a	5.64 a	8.68 a	2.17 a	4.44 a	6.58 a	10.36 a
		16	0.12 d	0.86 c	2.56 a	3.95 a	6.38 a	0.35 c	1.32 b	3.40 a	5.10 a	8.09 a	1.62 a	3.89 a	5.98 a	9.77 a
		24	—	0.01 d	1.72 c	3.04 c	5.34 a	—	0.38 d	2.44 c	4.10 b	6.99 a	0.60 c	2.87 b	4.87 a	8.66 a
	10	12	0.23 d	0.94 c	2.50 b	3.80 a	6.04 a	0.46 c	1.38 b	3.28 a	4.86 a	7.62 a	1.69 a	3.81 a	5.74 a	9.19 a
		16	—	0.42 d	1.99 c	3.25 b	5.41 a	—	0.81 c	2.71 b	4.25 a	6.95 a	1.07 c	3.18 a	5.06 a	8.51 a
		24	—	—	1.08 e	2.26 d	4.26 c	—	—	1.67 d	3.16 c	5.73 b	—	2.05 c	3.83 c	7.27 a
	12	12	—	0.23 e	1.53 d	2.54 c	4.27 b	—	0.55 d	2.10 c	3.36 c	5.54 a	0.77 d	2.55 c	4.02 b	6.87 a
		16	—	—	0.98 e	1.95 d	3.58 c	—	—	1.47 d	2.69 d	4.79 b	0.07 e	1.85 d	3.27 c	6.09 b
		24	—	—	0.02 f	0.90 e	2.36 e	—	—	0.39 e	1.53 e	3.48 d	—	0.62 e	1.95 e	4.72 d
	14	12	—	—	0.76 e	1.52 e	2.79 d	—	—	1.15 e	2.11 d	3.76 c	0.01 e	1.45 e	2.57 d	4.84 c
		16	—	—	0.22 f	0.94 f	2.12 e	—	—	0.54 f	1.46 e	3.03 d	—	0.76 e	1.84 e	4.06 d
		24	—	—	—	—	0.96 f	—	—	—	0.35 f	1.77 e	—	—	0.57 f	2.72 e
	16	12	—	—	0.21 f	0.79 f	1.73 e	—	—	0.48 f	1.21 e	2.47 e	—	0.66 f	1.52 e	3.31 d
		16	—	—	—	0.25 f	1.10 f	—	—	—	0.61 f	1.79 e	—	0.01 f	0.83 f	2.58 e
		24	—	—	—	—	0.03 f	—	—	—	—	0.62 f	—	—	—	1.32 f

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 35psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	8	12	1.60 a	2.65 a	4.90 a	6.76 a	10.73 a	2.01 a	3.41 a	6.56 a	9.13 a	14.81 a	3.74 a	6.78 a	10.12 a	17.34 a	
		16	1.30 a	2.36 a	4.64 a	6.50 a	10.47 a	1.70 a	3.07 a	6.22 a	8.81 a	14.49 a	3.39 a	6.45 a	9.76 a	16.98 a	
		24	0.70 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	2.71 a	5.80 a	9.05 a	16.27 a	
	9	12	1.34 a	2.40 a	4.66 a	6.52 a	10.49 a	1.73 a	3.09 a	6.17 a	8.72 a	14.30 a	3.41 a	6.40 a	9.64 a	16.71 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	2.98 a	5.98 a	9.19 a	16.25 a	
		24	0.24 a	1.36 a	3.66 a	5.53 a	9.50 a	0.58 a	1.85 a	4.90 a	7.52 a	13.07 a	2.14 a	5.17 a	8.30 a	15.35 a	
	10	12	1.06 a	2.13 a	4.38 a	6.24 a	10.20 a	1.42 a	2.73 a	5.71 a	8.23 a	13.69 a	3.05 a	5.97 a	9.10 a	15.97 a	
		16	0.61 a	1.70 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	2.52 a	5.47 a	8.55 a	15.40 a	
		24	—	0.88 a	3.15 a	5.02 a	8.96 a	0.07 b	1.26 a	4.20 a	6.77 a	12.18 a	1.52 a	4.49 a	7.47 a	14.29 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	2.24 a	4.99 a	7.84 a	14.17 a	
		16	—	0.92 b	3.10 a	4.96 a	8.84 a	0.16 c	1.28 a	3.98 a	6.39 a	11.45 a	1.55 a	4.30 a	7.08 a	13.37 a	
		24	—	—	2.03 c	3.84 b	7.66 a	—	0.06 c	2.70 b	5.12 a	10.08 a	0.26 c	3.02 b	5.65 a	11.85 a	
	14	12	—	0.81 c	2.80 b	4.54 a	8.45 a	0.10 c	1.13 b	3.55 a	5.75 a	10.37 a	1.39 a	3.92 a	6.43 a	12.08 a	
		16	—	0.14 d	2.11 c	3.80 b	7.62 a	—	0.36 d	2.74 c	4.93 b	9.46 a	0.56 c	3.09 b	5.50 a	11.08 a	
		24	—	—	0.87 e	2.48 d	6.11 c	—	—	1.28 d	3.44 d	7.80 b	—	1.58 d	3.81 c	9.24 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	0.57 c	2.89 c	5.03 a	9.91 a	
		16	—	—	1.18 e	2.64 d	5.92 c	—	—	1.60 d	3.53 c	7.44 b	—	1.95 d	3.98 c	8.77 a	
		24	—	—	—	1.22 e	4.28 d	—	—	0.08 e	1.94 e	5.64 d	—	0.31 e	2.14 d	6.77 c	

8" Stud	8	12	1.81 a*	2.79 a	4.92 a	6.75 a	10.78 a	2.34 a*	3.82 a	7.10 a	9.70 a	15.42 a	4.21 a	7.53 a	11.12 a	19.10 a
		16	1.58 a*	2.58 a	4.73 a	6.56 a	10.59 a	2.10 a*	3.57 a	6.85 a	9.47 a	15.21 a	3.95 a	7.28 a	10.85 a	18.84 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	3.43 a	6.78 a	10.33 a	18.33 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	9.50 a	15.23 a	3.98 a	7.28 a	10.85 a	18.79 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	3.65 a	6.96 a	10.51 a	18.46 a
		24	0.78 a*	1.80 a	4.01 a	5.86 a	9.90 a	1.23 a*	2.66 a	5.94 a	8.64 a	14.40 a	3.00 a	6.34 a	9.84 a	17.80 a
	10	12	1.42 a*	2.41 a	4.57 a	6.40 a	10.43 a	1.91 a*	3.37 a	6.64 a	9.28 a	15.01 a	3.72 a	7.00 a	10.53 a	18.42 a
		16	1.07 a*	2.08 a	4.26 a	6.10 a	10.13 a	1.54 a*	2.97 a	6.25 a	8.91 a	14.66 a	3.32 a	6.61 a	10.11 a	18.00 a
		24	0.40 a*	1.42 a	3.65 a	5.50 a	9.53 a	0.81 a*	2.20 a	5.47 a	8.20 a	13.96 a	2.52 a	5.83 a	9.28 a	17.18 a
	12	12	0.95 a*	1.94 a	4.12 a	5.95 a	9.97 a	1.40 a*	2.81 a	6.05 a	8.72 a	14.45 a	3.12 a	6.32 a	9.77 a	17.49 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	2.55 a	5.76 a	9.16 a	16.88 a
		24	—	0.56 a	2.81 a	4.65 a	8.66 a	—	1.18 a	4.38 a	7.15 a	12.90 a	1.44 a	4.68 a	7.98 a	15.67 a
	14	12	0.42 a*	1.40 a	3.58 a	5.40 a	9.39 a	0.81 a*	2.14 a	5.26 a	7.97 a	13.73 a	2.42 a	5.50 a	8.77 a	16.20 a
		16	—	0.79 a	2.98 a	4.80 a	8.78 a	0.15 b*	1.42 a	4.51 a	7.25 a	13.00 a	1.68 a	4.77 a	7.96 a	15.36 a
		24	—	—	1.85 b	3.66 a	7.59 a	—	0.08 b	3.10 a	5.88 a	11.58 a	0.29 b	3.38 a	6.42 a	13.75 a
	16	12	—	0.81 b	2.96 a	4.75 a	8.69 a	0.19 b*	1.41 a	4.30 a	6.91 a	12.50 a	1.66 a	4.58 a	7.59 a	14.53 a
		16	—	0.07 c	2.22 b	3.99 a	7.88 a	—	0.55 b	3.40 a	6.02 a	11.56 a	0.78 b	3.69 a	6.59 a	13.48 a
		24	—	—	0.84 d	2.57 c	6.36 a	—	—	1.75 c	4.37 b	9.79 a	—	2.04 c	4.75 a	11.51 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 40psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
3-5/8" Stud	8	12	0.53 b	1.27 a	2.85 a	4.05 a	6.35 a	0.80 b	1.76 a	3.71 a	5.22 a	7.97 a	2.09 a	4.26 a	6.14 a	9.51 a	
		16	0.10 d	0.81 c	2.42 b	3.59 a	5.83 a	0.32 c	1.26 b	3.22 a	4.72 a	7.43 a	1.55 a	3.72 a	5.58 a	8.97 a	
		24	—	—	1.61 d	2.75 c	4.85 a	—	0.34 d	2.30 c	3.79 b	6.41 a	0.55 c	2.73 b	4.54 a	7.95 a	
	9	12	0.17 d	0.84 c	2.31 b	3.39 a	5.44 a	0.39 c	1.27 b	3.04 a	4.42 a	6.91 a	1.56 a	3.57 a	5.22 a	8.35 a	
		16	—	0.33 d	1.82 c	2.87 b	4.84 a	—	0.71 c	2.48 c	3.85 a	6.28 a	0.94 c	2.95 b	4.58 a	7.72 a	
		24	—	—	0.93 e	1.93 d	3.75 c	—	—	1.48 d	2.82 c	5.12 b	—	1.85 d	3.42 c	6.54 a	
	10	12	—	0.44 d	1.78 c	2.74 b	4.53 a	0.01 d	0.80 d	2.40 c	3.63 b	5.84 a	1.05 c	2.89 b	4.32 a	7.17 a	
		16	—	—	1.26 d	2.18 d	3.89 b	—	0.20 e	1.80 d	3.02 c	5.15 a	0.38 d	2.22 c	3.63 b	6.47 a	
		24	—	—	0.33 e	1.20 e	2.73 d	—	—	0.76 e	1.93 e	3.92 c	—	1.04 e	2.40 d	5.20 c	
	12	12	—	—	0.88 e	1.60 e	2.90 d	—	0.01 e	1.29 e	2.24 d	3.90 c	0.15 e	1.62 d	2.72 c	4.99 b	
		16	—	—	0.35 f	1.03 e	2.24 e	—	—	0.69 e	1.62 e	3.19 d	—	0.94 e	2.01 d	4.24 c	
		24	—	—	—	0.06 f	1.10 f	—	—	—	0.54 f	1.95 e	—	—	0.77 e	2.93 e	
	14	12	—	—	0.24 f	0.78 f	1.71 e	—	—	0.51 f	1.23 e	2.45 e	—	0.70 e	1.54 e	3.30 d	
		16	—	—	—	0.25 f	1.09 f	—	—	—	0.64 f	1.78 e	—	0.05 f	0.86 f	2.58 e	
		24	—	—	—	—	0.02 f	—	—	—	—	0.62 f	—	—	—	1.34 f	
	16	12	—	—	—	0.23 f	0.90 f	—	—	—	0.55 f	1.46 f	—	0.08 f	0.73 f	2.11 e	
		16	—	—	—	—	0.33 f	—	—	—	—	0.83 f	—	—	0.10 f	1.43 f	
		24	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28 f	

4" Stud	8	12	0.73 a	1.55 a	3.35 a	4.86 a	7.58 a	1.03 a	2.10 a	4.35 a	6.18 a	9.48 a	2.45 a	4.81 a	7.11 a	11.25 a
		16	0.30 c	1.10 a	2.91 a	4.40 a	7.06 a	0.57 b	1.61 a	3.85 a	5.67 a	8.93 a	1.92 a	4.30 a	6.55 a	10.70 a
		24	—	0.27 c	2.10 b	3.53 a	6.06 a	—	0.69 c	2.92 b	4.71 a	7.88 a	0.94 b	3.33 a	5.51 a	9.65 a
	9	12	0.37 c	1.13 b	2.82 a	4.22 a	6.70 a	0.62 b	1.61 a	3.69 a	5.40 a	8.43 a	1.93 a	4.20 a	6.32 a	10.10 a
		16	—	0.61 c	2.31 b	3.68 a	6.07 a	0.09 d	1.04 b	3.11 a	4.80 a	7.77 a	1.32 b	3.59 a	5.65 a	9.44 a
		24	—	—	1.38 d	2.68 c	4.92 b	—	0.01 d	2.06 c	3.70 b	6.55 a	0.20 d	2.46 c	4.42 b	8.21 a
	10	12	0.02 d	0.71 c	2.28 b	3.56 a	5.76 a	0.23 d	1.13 c	3.03 a	4.60 a	7.33 a	1.41 b	3.53 a	5.44 a	8.89 a
		16	—	0.15 d	1.72 d	2.95 c	5.06 a	—	0.50 d	2.40 c	3.93 b	6.59 a	0.73 c	2.84 b	4.69 a	8.14 a
		24	—	—	0.72 e	1.87 d	3.80 c	—	—	1.27 d	2.73 d	5.25 b	—	1.61 d	3.34 c	6.77 b
	12	12	—	—	1.29 e	2.28 d	3.96 c	—	0.27 e	1.82 d	3.06 c	5.21 b	0.46 d	2.24 c	3.69 b	6.53 a
		16	—	—	0.69 e	1.63 e	3.21 d	—	—	1.15 e	2.34 d	4.40 c	—	1.48 d	2.87 d	5.68 b
		24	—	—	—	0.50 f	1.89 e	—	—	—	1.09 e	2.97 e	—	0.15 e	1.45 e	4.19 d
	14	12	—	—	0.52 f	1.26 e	2.49 d	—	—	0.88 e	1.82 e	3.44 d	—	1.14 e	2.24 d	4.49 c
		16	—	—	—	0.63 f	1.76 e	—	—	0.23 f	1.12 e	2.65 e	—	0.40 f	1.45 e	3.66 d
		24	—	—	—	—	0.51 f	—	—	—	—	1.29 f	—	—	0.09 f	2.21 e
	16	12	—	—	—	0.55 f	1.45 e	—	—	0.23 f	0.94 f	2.17 e	—	0.37 f	1.21 e	2.98 e
		16	—	—	—	—	0.77 f	—	—	—	0.30 f	1.43 f	—	—	0.47 f	2.19 e
		24	—	—	—	—	—	—	—	—	—	0.17 f	—	—	—	0.84 f

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " * " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE COMBINED AXIAL & LATERAL LOADS

(Kips/Stud)

Wind = 40psf			S162 (1-5/8" Flange)					S200 (2" Flange)					S250 (2-1/2" Flange)				
Stud length (ft)	Spacing (in) o.c.	-33	-43	-54	-68	-97	-33	-43	-54	-68	-97	-43	-54	-68	-97		
		(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(20ga) 33ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi	(18ga) 33ksi	(16ga) 50ksi	(14ga) 50ksi	(12ga) 50ksi		
6" Stud	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	9.00 a	14.67 a	3.59 a	6.63 a	9.96 a	17.19 a	
		16	1.12 a	2.20 a	4.48 a	6.35 a	10.33 a	1.52 a	2.88 a	6.03 a	8.63 a	14.30 a	3.19 a	6.26 a	9.55 a	16.78 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	2.42 a	5.52 a	8.75 a	15.97 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	3.22 a	6.22 a	9.45 a	16.51 a	
		16	0.75 a	1.85 a	4.13 a	6.00 a	9.97 a	1.12 a	2.43 a	5.49 a	8.08 a	13.65 a	2.73 a	5.75 a	8.93 a	15.99 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	1.79 a	4.83 a	7.93 a	14.97 a	
	10	12	0.86 a	1.94 a	4.20 a	6.06 a	10.02 a	1.22 a	2.51 a	5.49 a	8.02 a	13.47 a	2.82 a	5.76 a	8.86 a	15.72 a	
		16	0.36 a	1.46 a	3.73 a	5.59 a	9.54 a	0.69 a	1.94 a	4.90 a	7.45 a	12.89 a	2.23 a	5.18 a	8.23 a	15.08 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	1.11 a	4.08 a	7.02 a	13.82 a	
	12	12	0.19 c	1.24 a	3.43 a	5.30 a	9.19 a	0.50 b	1.66 a	4.37 a	6.77 a	11.86 a	1.94 a	4.69 a	7.51 a	13.83 a	
		16	—	0.61 c	2.78 b	4.63 a	8.49 a	—	0.92 b	3.60 a	6.01 a	11.05 a	1.17 a	3.93 a	6.66 a	12.92 a	
		24	—	—	1.59 d	3.39 c	7.17 a	—	—	2.19 c	4.60 b	9.52 a	—	2.50 b	5.07 a	11.23 a	
	14	12	—	0.52 d	2.50 c	4.21 a	8.09 a	—	0.79 c	3.19 b	5.39 a	9.97 a	1.03 b	3.56 a	6.02 a	11.64 a	
		16	—	—	1.74 d	3.41 c	7.17 a	—	—	2.30 c	4.48 b	8.96 a	0.12 d	2.64 c	4.99 a	10.53 a	
		24	—	—	0.38 e	1.95 d	5.51 c	—	—	0.71 e	2.85 d	7.15 c	—	0.99 d	3.14 c	8.51 b	
	16	12	—	—	1.60 d	3.09 c	6.44 b	—	0.01 d	2.09 d	4.03 c	8.01 a	0.17 d	2.48 c	4.57 b	9.41 a	
		16	—	—	0.78 e	2.21 d	5.43 c	—	—	1.14 e	3.05 d	6.90 c	—	1.46 d	3.43 c	8.17 b	
		24	—	—	—	0.67 e	3.65 e	—	—	—	1.32 e	4.94 d	—	—	1.43 e	5.99 d	

8" Stud	8	12	1.71 a*	2.70 a	4.84 a	6.67 a	10.70 a	2.23 a*	3.71 a	6.99 a	9.60 a	15.33 a	4.10 a	7.42 a	11.00 a	18.99 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	3.80 a	7.13 a	10.70 a	18.69 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	3.21 a	6.57 a	10.10 a	18.11 a
	9	12	1.50 a*	2.50 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	3.84 a	7.14 a	10.70 a	18.65 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	3.46 a	6.78 a	10.32 a	18.27 a
		24	0.55 a*	1.57 a	3.80 a	5.66 a	9.69 a	0.98 a*	2.39 a	5.68 a	8.39 a	14.16 a	2.72 a	6.07 a	9.55 a	17.51 a
	10	12	1.27 a*	2.27 a	4.44 a	6.27 a	10.30 a	1.75 a*	3.20 a	6.47 a	9.12 a	14.86 a	3.55 a	6.83 a	10.35 a	18.24 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	3.09 a	6.38 a	9.88 a	17.77 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	2.18 a	5.51 a	8.93 a	16.83 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	2.87 a	6.08 a	9.51 a	17.23 a
		16	0.20 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	2.23 a	5.45 a	8.82 a	16.53 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	0.99 a	4.23 a	7.48 a	15.17 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	2.10 a	5.19 a	8.42 a	15.84 a
		16	—	0.45 b	2.65 a	4.47 a	8.43 a	—	1.03 a	4.10 a	6.85 a	12.58 a	1.27 a	4.36 a	7.51 a	14.89 a
		24	—	—	1.39 c	3.19 a	7.10 a	—	—	2.52 b	5.31 a	11.00 a	—	2.81 a	5.79 a	13.09 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	1.28 a	4.19 a	7.15 a	14.08 a
		16	—	—	1.81 c	3.57 a	7.44 a	—	0.09 c	2.91 b	5.53 a	11.04 a	0.29 b	3.20 a	6.05 a	12.90 a
		24	—	—	0.29 d	2.00 c	5.75 b	—	—	1.09 d	3.71 c	9.08 a	—	1.38 c	4.01 b	10.71 a

See page 26 for clarification of code developed wind pressures prior to using this table.

Notes:

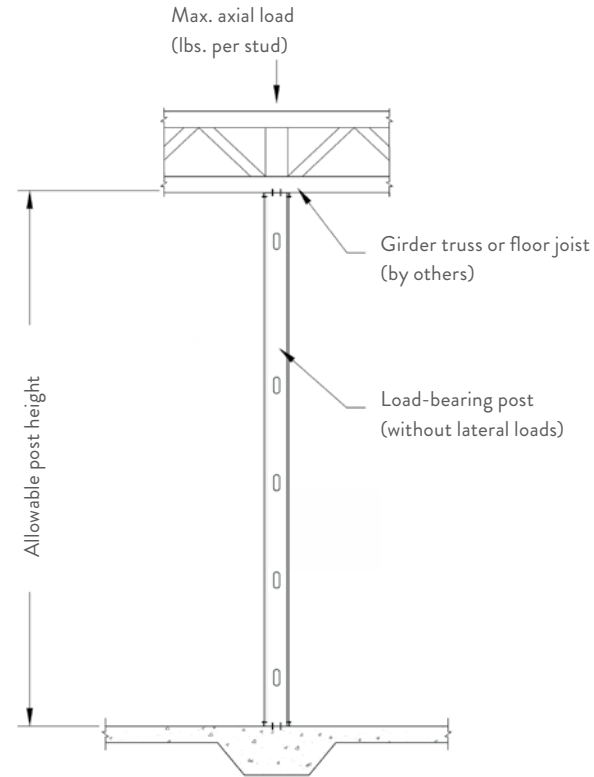
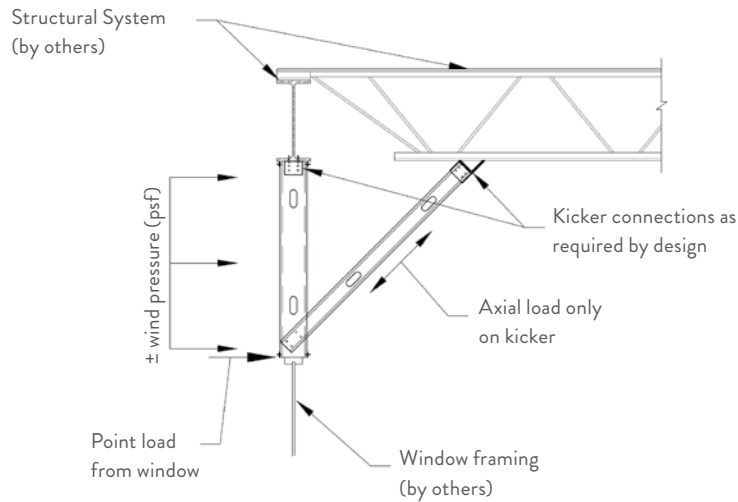
- For additional general notes, see page 40.
- Allowable axial loads determined in accordance with section C5 of AISI S100-12, with section D4 used for treatment of punchouts, and assuming that all axial loads pass through centroid of effective section.
- Allowable axial loads listed in kips (1 kip=1000 pounds).
- Listed tables are based on simple (single)-span.
- Studs are assumed to be adequately braced at a maximum spacing of L_u to develop full allowable moment, M_a .
- Cells marked with an "a," "b," "c," "d," "e," or "f" meet L/720, L/600, L/480, L/360, L/240, or L/120 respectively. Blank cells do not meet L/120.
- For deflection calculations, lateral loads are multiplied by 0.7 per the AISI S211-07/S1-12 (2012) Standard for Cold-Formed Steel Framing—Wall Stud Design except for 5psf load which is considered interior wall load.
- Cells marked with an " " have $h/t > 200$, and thus require bearing stiffeners. Cells are left blank when $h/t > 260$.

Complies with AISI S100-12 • IBC 2015

Allowable Unbraced Axial Loads

General Notes:

- 1 Allowable axial loads listed in kips (1 kip=1000 pounds).
- 2 Allowable axial loads do not include a 1/3 allowable stress increase.
- 3 Allowable axial loads are based on punched webs. Punchouts are 1-1/2" wide x 4" long.
- 4 Allowable axial loads are based on concentric axial loading conditions only.
- 5 The lengths indicated are for unbraced lengths. The addition of intermediate bracing may increase the allowable axial loads.



Complies with AISI S100-12 • IBC 2015

ALLOWABLE UNBRACED AXIAL LOADS

Based on length (Kips)

	Member	Fy (ksi)	Unbraced Length (ft)																						
			1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
3-5/8" Stud	362S137-33	33	2.66	2.59	2.49	2.38	2.21	2.02	1.82	1.44	1.09	0.86	0.70	0.56	0.46	0.38	0.32	0.27 *	0.23 *	0.20 *	0.18 *	0.16 *	0.14 *	0.13 *	0.11 *
	362S137-43	33	3.81	3.67	3.49	3.27	3.03	2.78	2.52	2.02	1.57	1.18	0.90	0.71	0.58	0.48	0.40	0.34 *	0.30 *	0.26 *	0.23 *	0.20 *	0.18 *	0.16 *	0.14 *
	362S137-54	50	6.88	6.62	6.22	5.66	5.06	4.46	3.89	2.79	1.93	1.42	1.09	0.86	0.70	0.58	0.48	0.41 *	0.36 *	0.31 *	0.27 *	0.24 *	0.21 *	0.19 *	0.17 *
	362S137-68	50	9.28	8.78	8.14	7.43	6.67	5.83	4.93	3.31	2.30	1.69	1.29	1.02	0.83	0.68	0.57	0.49 *	0.42 *	0.37 *	0.32 *	0.29 *	0.26 *	0.23 *	0.21 *
	362S137-97	50	13.07	12.32	11.32	10.14	8.87	7.57	6.31	4.15	2.88	2.12	1.62	1.28	1.04	0.86	0.72 *	0.61 *	0.53 *	0.46 *	0.40 *	0.36 *	0.32 *	0.29 *	0.26 *
	362S162-33	33	3.12	3.05	2.96	2.84	2.69	2.50	2.29	1.87	1.47	1.14	0.91	0.75	0.63	0.53	0.46	0.41	0.37	0.33	0.30 *	0.27 *	0.24 *	0.22 *	0.20 *
	362S162-43	33	4.43	4.30	4.12	3.91	3.67	3.40	3.13	2.58	2.06	1.60	1.28	1.05	0.89	0.77	0.68	0.59	0.51	0.44	0.39 *	0.35 *	0.31 *	0.28 *	0.25 *
	362S162-54	50	7.99	7.74	7.44	6.87	6.24	5.60	4.96	3.76	2.75	2.13	1.73	1.45	1.21	1.00	0.84	0.72	0.62	0.54	0.47 *	0.42 *	0.37 *	0.34 *	0.30 *
	362S162-68	50	10.79	10.31	9.68	8.95	8.16	7.31	6.46	4.92	3.70	2.94	2.28	1.80	1.46	1.20	1.01	0.86	0.74	0.65 *	0.57 *	0.50 *	0.45 *	0.40 *	0.36 *
	362S162-97	50	15.24	14.50	13.58	12.55	11.48	10.43	9.43	7.30	5.21	3.83	2.93	2.32	1.88	1.55	1.30	1.11	0.96	0.83 *	0.73 *	0.65 *	0.58 *	0.52 *	0.47 *
	362S200-33	33	3.41	3.35	3.26	3.15	3.02	2.88	2.72	2.35	1.96	1.53	1.21	0.99	0.82	0.69	0.59	0.52	0.46	0.41	0.37	0.33	0.30	0.28	0.26 *
	362S200-43	33	5.12	5.03	4.88	4.70	4.47	4.20	3.90	3.28	2.68	2.12	1.66	1.35	1.13	0.96	0.83	0.73	0.66	0.59	0.54	0.50	0.46	0.43	0.40 *
	362S200-54	50	8.79	8.62	8.41	8.12	7.70	7.02	6.30	4.90	3.62	2.75	2.18	1.79	1.51	1.31	1.15	1.03	0.93	0.85	0.78	0.72	0.68	0.62	0.56 *
	362S200-68	50	12.43	12.11	11.64	10.87	10.02	9.12	8.15	6.30	4.72	3.64	2.94	2.46	2.11	1.85	1.65	1.50	1.37	1.21	1.06	0.94	0.84	0.75 *	0.68 *
	362S200-97	50	18.07	17.33	16.37	15.26	14.06	12.82	11.61	9.35	7.44	5.96	4.98	4.30	3.58	2.96	2.49	2.12	1.83	1.59	1.40	1.24	1.11	0.99 *	0.90 *
	362S250-43	33	5.25	5.16	5.04	4.89	4.71	4.51	4.29	3.80	3.15	2.49	1.95	1.57	1.30	1.09	0.94	0.82	0.73	0.65	0.59	0.53	0.49	0.45	0.42
	362S250-54	50	9.00	8.77	8.46	8.08	7.63	7.13	6.64	5.67	4.25	3.20	2.51	2.04	1.70	1.45	1.26	1.11	0.99	0.90	0.82	0.75	0.70	0.65	0.61
	362S250-68	50	12.44	12.16	11.78	11.32	10.80	10.00	9.13	7.36	5.46	4.15	3.30	2.72	2.30	1.99	1.75	1.57	1.42	1.30	1.19	1.11	1.04	0.98	0.92
	362S250-97	50	19.64	18.98	18.14	17.19	16.24	14.88	13.43	10.69	8.30	6.50	5.32	4.50	3.91	3.47	3.12	2.84	2.62	2.43	2.27	2.13	1.96	1.76	1.59
4" Stud	400S137-33	33	2.69	2.62	2.53	2.42	2.27	2.09	1.90	1.52	1.18	0.91	0.72	0.58	0.48	0.39	0.33	0.28 *	0.24 *	0.21 *	0.19 *	0.17 *	0.15 *	0.13 *	0.12 *
	400S137-43	33	3.86	3.73	3.56	3.36	3.13	2.88	2.63	2.13	1.62	1.23	0.95	0.75	0.61	0.50	0.42	0.36 *	0.31 *	0.27 *	0.24 *	0.21 *	0.19 *	0.17 *	0.15 *
	400S137-54	50	6.99	6.74	6.39	5.85	5.28	4.68	4.04	2.85	2.03	1.49	1.14	0.90	0.73	0.60	0.51	0.43 *	0.37 *	0.32 *	0.28 *	0.25 *	0.23 *	0.20 *	0.18 *
	400S137-68	50	9.51	9.04	8.44	7.70	6.89	6.04	5.18	3.47	2.41	1.77	1.35	1.07	0.87	0.72	0.60 *	0.51 *	0.44 *	0.39 *	0.34 *	0.30 *	0.27 *	0.24 *	0.22 *
	400S137-97	50	14.09	13.24	12.13	10.84	9.45	8.03	6.66	4.35	3.02	2.22	1.70	1.34	1.09	0.90	0.76 *	0.64 *	0.56 *	0.48 *	0.42 *	0.38 *	0.34 *	0.30 *	0.27 *
	400S162-33	33	3.15	3.08	3.00	2.89	2.75	2.58	2.39	1.99	1.60	1.25	1.01	0.83	0.70	0.61	0.53	0.46	0.41	0.36	0.32 *	0.28 *	0.25 *	0.23 *	0.21 *
	400S162-43	33	4.49	4.37	4.20	4.01	3.78	3.54	3.28	2.75	2.24	1.78	1.45	1.20	1.01	0.86	0.73	0.62	0.53	0.47	0.41 *	0.36 *	0.32 *	0.29 *	0.26 *
	400S162-54	50	8.10	7.88	7.59	7.10	6.51	5.90	5.28	4.10	3.10	2.43	1.96	1.57	1.27	1.05	0.88	0.75	0.65	0.56 *	0.50 *	0.44 *	0.39 *	0.35 *	0.32 *
	400S162-68	50	11.03	10.58	10.00	9.32	8.58	7.80	7.03	5.56	4.21	3.11	2.38	1.88	1.53	1.26	1.06	0.90	0.78	0.68 *	0.60 *	0.53 *	0.47 *	0.42 *	0.38 *
	400S162-97	50	16.31	15.59	14.68	13.64	12.55	11.45	10.21	7.69	5.47	4.02	3.07	2.43	1.97	1.63	1.37	1.16	1.00	0.87 *	0.77 *	0.68 *	0.61 *	0.55 *	0.49 *
	400S200-33	33	3.44	3.38	3.30	3.20	3.09	2.96	2.81	2.48	2.12	1.71	1.36	1.11	0.93	0.80	0.69	0.60	0.53	0.47	0.42	0.38	0.35	0.32	0.30 *
	400S200-43	33	5.17	5.09	4.96	4.80	4.60	4.35	4.08	3.50	2.92	2.38	1.91	1.57	1.31	1.11	0.96	0.84	0.75	0.68	0.62	0.56	0.52	0.48	0.45 *
	400S200-54	50	8.89	8.75	8.55	8.32	7.93	7.40	6.72	5.37	4.13	3.20	2.53	2.07	1.75	1.50	1.32	1.17	1.06	0.96	0.88	0.81	0.72	0.65 *	0.59 *
	400S200-68	50	12.66	12.37	12.00	11.30	10.52	9.68	8.82	7.12	5.50	4.22	3.39	2.83	2.42	2.11	1.88	1.69	1.45	1.27	1.11	0.99	0.88	0.79 *	0.71 *
	400S200-97	50	19.17	18.46	17.55	16.47	15.29	14.07	12.84	10.51	8.49	6.83	5.68	4.63	3.75	3.10	2.61	2.22	1.91	1.67	1.47	1.30	1.16	1.04 *	0.94 *
	400S250-43	33	5.30	5.22	5.12	4.99	4.83	4.66	4.46	4.01	3.47	2.84	2.27	1.85	1.54	1.29	1.11	0.97	0.85	0.76	0.69	0.62	0.57	0.53	0.49
	400S250-54	50	9.12	8.92	8.65	8.31	7.91	7.47	6.98	6.15	4.94	3.78	2.98	2.41	2.01	1.71	1.48	1.30	1.16	1.04	0.95	0.87	0.80	0.75	0.70
	400S250-68	50	12.67	12.42	12.09	11.69	11.22	10.59	9.82	8.37	6.49	4.92	3.90	3.20	2.69	2.32	2.03	1.81	1.63	1.49	1.37	1.27	1.19	1.11	1.05
	400S250-97	50	20.74	20.13	19.33	18.41	17.45	16.34	14.92	12.15	9.68	7.61	6.20	5.22	4.51	3.98	3.58	3.25	2.99	2.77	2.59	2.30	2.05	1.84	1.66

Notes:

- 1 Listed axial loads marked with " * " indicate the KL/r > 300.
- 2 Listed axial loads marked with "ws" indicate that h/t > 200. This indicates that web stiffeners are required to prevent web crippling at points of concentrated loads.
- 3 Listed capacities are calculated per AISI-NASPEC S100-12.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE UNBRACED AXIAL LOADS

Based on length (Kips)

Member		Fy (ksi)	Unbraced Length (ft)																						
			1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5-1/2" Stud	550S162-33	33	3.20	3.15	3.07	2.99	2.87	2.74	2.57	2.20	1.81	1.45	1.15	0.94	0.78	0.67	0.58	0.50	0.44	0.39 *	0.35 *	0.32 *	0.29 *	0.26 *	0.23 *
	550S162-43	33	4.60	4.50	4.36	4.19	3.99	3.77	3.53	3.02	2.50	1.99	1.59	1.30	1.09	0.92	0.80	0.69	0.61	0.53 *	0.47 *	0.41 *	0.37 *	0.33 *	0.30 *
	550S162-54	50	8.32	8.13	7.87	7.50	6.96	6.38	5.76	4.53	3.39	2.61	2.08	1.70	1.42	1.20	1.01	0.86	0.74	0.65 *	0.57 *	0.50 *	0.45 *	0.40 *	0.36 *
	550S162-68	50	11.47	11.08	10.56	9.92	9.20	8.41	7.59	5.93	4.43	3.40	2.70	2.16	1.75	1.45	1.22	1.04	0.89	0.78 *	0.68 *	0.61 *	0.54 *	0.49 *	0.44 *
	550S162-97	50	17.79	17.15	16.29	15.26	14.07	12.80	11.46	8.78	6.30	4.63	3.54	2.80	2.27	1.87	1.57	1.34	1.16 *	1.01 *	0.89 *	0.78 *	0.70 *	0.63 *	0.57 *
	550S200-33	33	3.49	3.45	3.39	3.32	3.23	3.13	3.02	2.76	2.46	2.15	1.80	1.48	1.24	1.06	0.92	0.81	0.72	0.65	0.59	0.54	0.49	0.45 *	0.41 *
	550S200-43	33	5.28	5.22	5.13	5.01	4.86	4.69	4.48	4.00	3.50	3.00	2.53	2.09	1.77	1.52	1.33	1.18	1.05	0.94	0.84	0.75	0.68	0.61 *	0.55 *
	550S200-54	50	9.11	9.00	8.85	8.67	8.46	8.12	7.67	6.50	5.34	4.27	3.45	2.87	2.45	2.09	1.80	1.56	1.37	1.20	1.05	0.93	0.83	0.75 *	0.67 *
	550S200-68	50	13.11	12.90	12.62	12.20	11.58	10.90	10.18	8.68	7.22	5.87	4.74	3.86	3.21	2.70	2.27	1.94	1.67	1.45	1.28	1.13	1.01	0.91 *	0.82 *
	550S200-97	50	20.73	20.24	19.57	18.77	17.85	16.86	15.82	13.54	11.12	8.78	6.75	5.33	4.32	3.57	3.00	2.56	2.20	1.92	1.69	1.49	1.33 *	1.20 *	1.08 *
	550S250-43	33	5.41	5.36	5.29	5.20	5.09	4.96	4.82	4.50	4.14	3.72	3.19	2.69	2.25	1.92	1.67	1.47	1.30	1.17	1.06	0.97	0.89	0.82	0.76
	550S250-54	50	9.36	9.22	9.03	8.80	8.52	8.20	7.85	7.06	6.41	5.46	4.39	3.61	3.05	2.62	2.29	2.02	1.81	1.63	1.49	1.35	1.24	1.14	1.06
550S250-68	50	13.13	12.96	12.73	12.44	12.11	11.73	11.31	10.04	8.87	7.35	5.97	4.96	4.21	3.65	3.21	2.84	2.53	2.28	2.08	1.91	1.76	1.58	1.43	
550S250-97	50	22.32	21.92	21.39	20.75	20.04	19.28	18.54	16.26	13.97	11.82	9.86	8.20	6.98	6.07	5.30	4.52	3.89	3.39	2.98	2.64	2.36	2.11	1.91	
6" Stud	600S137-33	33	2.73	2.66	2.56	2.45	2.29	2.09	1.89	1.48	1.11	0.86	0.69	0.57	0.48	0.41	0.35 *	0.31 *	0.27 *	0.24 *	0.22 *	0.20 *	0.17 *	0.16 *	0.14 *
	600S137-43	33	3.96	3.83	3.65	3.43	3.18	2.91	2.62	2.05	1.54	1.20	0.96	0.79	0.67	0.57	0.49 *	0.42 *	0.37 *	0.32 *	0.28 *	0.25 *	0.22 *	0.20 *	0.18 *
	600S137-54	50	7.20	6.93	6.51	5.91	5.26	4.58	3.91	2.75	2.03	1.58	1.27	1.04	0.86	0.71	0.60 *	0.51 *	0.44 *	0.38 *	0.34 *	0.30 *	0.27 *	0.24 *	0.22 *
	600S137-68	50	9.92	9.39	8.69	7.87	6.98	6.06	5.15	3.60	2.66	2.06	1.61	1.27	1.03	0.85	0.71 *	0.61 *	0.53 *	0.46 *	0.40 *	0.36 *	0.32 *	0.29 *	0.26 *
	600S137-97	50	15.65	14.74	13.56	12.19	10.69	9.15	7.64	5.19	3.61	2.65	2.03	1.60	1.30	1.07 *	0.90 *	0.77 *	0.66 *	0.58 *	0.51 *	0.45 *	0.40 *	0.36 *	0.32 *
	600S162-33	33	3.20	3.15	3.08	2.99	2.87	2.73	2.56	2.18	1.79	1.42	1.13	0.93	0.77	0.66	0.57	0.50	0.44	0.39 *	0.35 *	0.32 *	0.29 *	0.26 *	0.24 *
	600S162-43	33	4.61	4.51	4.37	4.19	3.99	3.77	3.52	3.00	2.47	1.97	1.57	1.29	1.08	0.92	0.79	0.69	0.61	0.54 *	0.48 *	0.43 *	0.38 *	0.34 *	0.31 *
	600S162-54	50	8.35	8.15	7.89	7.49	6.95	6.35	5.73	4.48	3.35	2.58	2.06	1.69	1.42	1.20	1.04	0.89	0.77	0.67 *	0.59 *	0.52 *	0.47 *	0.42 *	0.38 *
	600S162-68	50	11.53	11.13	10.59	9.94	9.20	8.40	7.56	5.89	4.39	3.39	2.70	2.21	1.81	1.50	1.26	1.07	0.93	0.81 *	0.71 *	0.63 *	0.56 *	0.50 *	0.45 *
	600S162-97	50	17.99	17.33	16.45	15.38	14.18	12.87	11.51	8.80	6.47	4.79	3.67	2.90	2.35	1.94	1.63	1.39	1.20 *	1.04 *	0.92 *	0.81 *	0.73 *	0.65 *	0.59 *
	600S200-33	33	3.50	3.46	3.41	3.34	3.25	3.16	3.05	2.81	2.53	2.23	1.90	1.57	1.31	1.12	0.97	0.86	0.76	0.68	0.60	0.54	0.49	0.45 *	0.41 *
	600S200-43	33	5.30	5.24	5.16	5.04	4.90	4.75	4.55	4.09	3.61	3.12	2.65	2.21	1.87	1.59	1.37	1.20	1.05	0.94	0.84	0.75	0.68	0.62 *	0.57 *
	600S200-54	50	9.15	9.05	8.91	8.74	8.54	8.22	7.84	6.71	5.57	4.51	3.61	2.95	2.46	2.09	1.80	1.57	1.38	1.22	1.09	0.96	0.86	0.77 *	0.70 *
	600S200-68	50	13.19	12.99	12.72	12.35	11.76	11.11	10.42	8.96	7.44	5.95	4.73	3.86	3.22	2.73	2.34	2.01	1.73	1.51	1.32	1.17	1.05	0.94 *	0.85 *
	600S200-97	50	20.97	20.50	19.87	19.08	18.16	17.13	16.02	13.63	11.18	8.82	6.98	5.53	4.48	3.70	3.11	2.65	2.28	1.99	1.75	1.55	1.38 *	1.24 *	1.12 *
	600S250-43	33	5.43	5.38	5.32	5.23	5.14	5.02	4.89	4.59	4.25	3.88	3.39	2.89	2.44	2.08	1.80	1.59	1.41	1.27	1.15	1.05	0.96	0.89	0.82
	600S250-54	50	9.40	9.27	9.10	8.89	8.63	8.33	8.00	7.27	6.62	5.82	4.75	3.91	3.30	2.83	2.47	2.19	1.96	1.77	1.61	1.48	1.36	1.27	1.18
	600S250-68	50	13.21	13.05	12.84	12.58	12.27	11.91	11.53	10.38	9.22	7.86	6.46	5.36	4.55	3.94	3.47	3.09	2.78	2.53	2.30	2.05	1.83	1.64	1.48
	600S250-97	50	22.56	22.19	21.70	21.11	20.44	19.72	19.00	16.96	14.74	12.62	10.67	9.00	7.76	6.54	5.49	4.68	4.04	3.52	3.09	2.74	2.44	2.19	1.98
	600S300-54	50	9.56	9.45	9.30	9.11	8.88	8.62	8.33	7.67	6.93	6.14	5.40	4.68	3.98	3.39	2.94	2.59	2.30	2.06	1.87	1.70	1.56	1.44	1.34
	600S300-68	50	13.52	13.36	13.14	12.86	12.52	12.13	11.71	10.76	9.85	8.83	7.56	6.41	5.40	4.64	4.05	3.58	3.20	2.88	2.61	2.38	2.18	2.01	1.86
	600S300-97	50	23.94	23.66	23.29	22.82	22.26	21.47	20.51	18.45	16.38	14.49	12.46	10.44	8.90	7.67	6.69	5.93	5.32	4.82	4.42	4.08	3.80	3.49	3.15

Notes:

- 1 Listed axial loads marked with " * " indicate the KL/r > 300.
- 2 Listed axial loads marked with "ws" indicate that h/t > 200. This indicates that web stiffeners are required to prevent web crippling at points of concentrated loads.
- 3 Listed capacities are calculated per AISI-NASPEC S100-12.

Complies with AISI S100-12 • IBC 2015

ALLOWABLE UNBRACED AXIAL LOADS

Based on length (Kips)

Member		Fy (ksi)	Unbraced Length (ft)																						
			1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
8" Stud	800S137-33	33	2.74 ws	2.66 ws	2.55 ws	2.43 ws	2.23 ws	2.01 ws	1.79 ws	1.36 ws	1.01 ws	0.79 ws	0.63 ws	0.52 ws	0.44 ws	0.38 * ws	0.33 * ws	0.29 * ws	0.26 * ws	0.23 * ws	0.21 * ws	0.19 * ws	0.18 * ws	0.16 * ws	0.15 * ws
	800S137-43	33	3.98	3.83	3.63	3.38	3.11	2.81	2.51	1.91	1.42	1.11	0.90	0.75	0.63	0.55 *	0.48 *	0.42 *	0.37 *	0.33 *	0.30 *	0.27 *	0.24 *	0.22 *	0.20 *
	800S137-54	50	7.24	6.94	6.43	5.77	5.06	4.33	3.63	2.54	1.90	1.49	1.21	1.01	0.85	0.73 *	0.64 *	0.56 *	0.49 *	0.43 *	0.37 *	0.33 *	0.30 *	0.26 *	0.24 *
	800S137-68	50	10.02	9.42	8.63	7.73	6.75	5.77	4.81	3.38	2.54	1.99	1.61	1.33	1.12	0.94 *	0.79 *	0.67 *	0.58 *	0.51 *	0.45 *	0.39 *	0.35 *	0.32 *	0.28 *
	800S137-97	50	16.03	15.00	13.67	12.14	10.51	8.87	7.29	5.13	3.83	2.94	2.25	1.78	1.44 *	1.19 *	1.00 *	0.85 *	0.73 *	0.64 *	0.56 *	0.50 *	0.44 *	0.40 *	0.36 *
	800S162-33	33	3.21 ws	3.16 ws	3.08 ws	2.98 ws	2.84 ws	2.68 ws	2.49 ws	2.09 ws	1.68 ws	1.31 ws	1.05 ws	0.86 ws	0.72 ws	0.62 ws	0.54 ws	0.47 ws	0.42 * ws	0.37 * ws	0.34 * ws	0.31 * ws	0.28 * ws	0.26 * ws	0.24 * ws
	800S162-43	33	4.64	4.52	4.37	4.18	3.96	3.71	3.45	2.89	2.34	1.83	1.47	1.21	1.02	0.88	0.76	0.67	0.59 *	0.53 *	0.48 *	0.43 *	0.40 *	0.36 *	0.33 *
	800S162-54	50	8.41	8.19	7.90	7.42	6.82	6.18	5.52	4.22	3.13	2.43	1.96	1.62	1.37	1.17	1.02	0.90	0.79 *	0.71 *	0.64 *	0.58 *	0.52 *	0.46 *	0.42 *
	800S162-68	50	11.65	11.20	10.61	9.89	9.09	8.22	7.33	5.58	4.15	3.24	2.61	2.16	1.82	1.56	1.35	1.18	1.03 *	0.90 *	0.79 *	0.70 *	0.62 *	0.56 *	0.50 *
	800S162-97	50	18.41	17.68	16.70	15.53	14.21	12.80	11.35	8.50	6.33	4.93	3.96	3.23	2.61	2.16	1.81	1.55 *	1.33 *	1.16 *	1.02 *	0.90 *	0.81 *	0.72 *	0.65 *
	800S200-33	33	3.52 ws	3.48 ws	3.42 ws	3.35 ws	3.27 ws	3.18 ws	3.07 ws	2.83 ws	2.54 ws	2.23 ws	1.88 ws	1.54 ws	1.29 ws	1.09 ws	0.94 ws	0.82 ws	0.72 ws	0.65 ws	0.58 ws	0.52 ws	0.48 * ws	0.44 * ws	0.40 * ws
	800S200-43	33	5.34	5.28	5.20	5.08	4.94	4.78	4.58	4.11	3.61	3.09	2.59	2.13	1.78	1.52	1.31	1.15	1.02	0.91	0.82	0.74	0.67 *	0.61 *	0.56 *
	800S200-54	50	9.23	9.12	8.98	8.81	8.61	8.27	7.85	6.66	5.45	4.30	3.43	2.82	2.36	2.02	1.75	1.53	1.36	1.21	1.09	0.98	0.89 *	0.82 *	0.75 *
	800S200-68	50	13.34	13.13	12.86	12.45	11.83	11.13	10.38	8.79	7.19	5.68	4.54	3.74	3.14	2.68	2.33	2.04	1.80	1.60	1.44	1.30	1.17 *	1.05 *	0.94 *
	800S200-97	50	21.43	20.92	20.23	19.37	18.38	17.27	16.08	13.55	11.00	8.64	6.93	5.70	4.78	4.07	3.47	2.96	2.55	2.22	1.95	1.73 *	1.54 *	1.38 *	1.25 *
	800S250-43	33	5.48	5.44	5.39	5.32	5.24	5.15	5.04	4.79	4.51	4.19	3.85	3.39	2.94	2.52	2.18	1.90	1.68	1.49	1.34	1.21	1.09	1.00	0.92
	800S250-54	50	9.50	9.40	9.26	9.08	8.87	8.63	8.36	7.74	7.07	6.51	5.71	4.72	3.93	3.34	2.88	2.51	2.22	1.97	1.77	1.60	1.45	1.33	1.22
	800S250-68	50	13.39	13.27	13.09	12.88	12.63	12.33	12.01	11.16	10.05	8.97	7.53	6.20	5.18	4.41	3.81	3.33	2.94	2.62	2.35	2.12	1.92	1.75	1.61
	800S250-97	50	23.10	22.80	22.40	21.89	21.30	20.65	19.96	18.24	15.99	13.69	11.45	9.41	7.88	6.71	5.79	5.05	4.45	3.93	3.45	3.06	2.73	2.45	2.21
	800S300-54	50	9.66	9.58	9.46	9.32	9.15	8.95	8.72	8.20	7.61	6.97	6.28	5.60	5.00	4.38	3.80	3.33	2.95	2.65	2.39	2.18	2.00	1.84	1.71
	800S300-68	50	13.72	13.59	13.43	13.21	12.96	12.66	12.33	11.57	10.75	9.95	9.08	7.95	6.96	5.97	5.20	4.59	4.09	3.69	3.35	3.07	2.83	2.62	2.41
	800S300-97	50	24.49	24.28	24.00	23.64	23.21	22.72	22.03	20.33	18.51	16.71	15.04	13.27	11.41	9.90	8.72	7.66	6.74	5.98	5.35	4.81	4.35	3.90	3.52
10" Stud	1000S162-43	33	4.65 ws	4.52 ws	4.35 ws	4.14 ws	3.90 ws	3.63 ws	3.35 ws	2.76 ws	2.18 ws	1.70 ws	1.37 ws	1.13 ws	0.96 ws	0.82 ws	0.72 ws	0.64 * ws	0.57 * ws	0.51 * ws	0.46 * ws	0.42 * ws	0.38 * ws	0.35 * ws	0.32 * ws
	1000S162-54	50	8.43	8.18	7.88	7.30	6.66	5.97	5.27	3.91	2.91	2.27	1.84	1.53	1.30	1.12	0.98	0.86 *	0.77 *	0.69 *	0.62 *	0.57 *	0.52 *	0.47 *	0.44 *
	1000S162-68	50	11.69	11.20	10.54	9.76	8.88	7.96	7.01	5.19	3.89	3.05	2.48	2.06	1.75	1.51	1.32	1.16 *	1.03 *	0.92 *	0.83 *	0.75 *	0.67 *	0.60 *	0.54 *
	1000S162-97	50	18.59	17.77	16.69	15.41	13.98	12.46	10.93	8.01	6.04	4.75	3.85	3.20	2.70	2.31	1.95	1.66 *	1.43 *	1.25 *	1.10 *	0.97 *	0.87 *	0.78 *	0.70 *
	1000S200-43	33	5.35 ws	5.29 ws	5.20 ws	5.07 ws	4.92 ws	4.75 ws	4.52 ws	4.02 ws	3.49 ws	2.95 ws	2.44 ws	2.00 ws	1.68 ws	1.43 ws	1.24 ws	1.09 ws	0.97 ws	0.86 ws	0.78 ws	0.71 * ws	0.64 * ws	0.59 * ws	0.55 * ws
	1000S200-54	50	9.26	9.14	8.99	8.80	8.56	8.20	7.68	6.42	5.17	4.03	3.23	2.66	2.24	1.92	1.66	1.46	1.30	1.16	1.05	0.95 *	0.87 *	0.80 *	0.74 *
	1000S200-68	50	13.41	13.18	12.88	12.40	11.72	10.98	10.18	8.50	6.84	5.35	4.30	3.55	3.00	2.57	2.24	1.97	1.75	1.57	1.41	1.28 *	1.17 *	1.07 *	0.98 *
	1000S200-97	50	21.64	21.08	20.33	19.40	18.32	17.13	15.86	13.19	10.55	8.26	6.67	5.53	4.67	4.01	3.48	3.05	2.70	2.39	2.10	1.86 *	1.66 *	1.49 *	1.35 *
	1000S250-43	33	5.50 ws	5.46 ws	5.40 ws	5.33 ws	5.25 ws	5.16 ws	5.05 ws	4.79 ws	4.50 ws	4.16 ws	3.79 ws	3.30 ws	2.83 ws	2.40 ws	2.07 ws	1.81 ws	1.59 ws	1.42 ws	1.27 ws	1.15 ws	1.05 ws	0.96 ws	0.88 ws
	1000S250-54	50	9.53	9.43	9.29	9.11	8.89	8.63	8.35	7.70	7.02	6.37	5.46	4.46	3.73	3.17	2.74	2.40	2.12	1.89	1.70	1.54	1.40	1.29	1.18
	1000S250-68	50	13.47	13.34	13.15	12.93	12.66	12.35	12.00	11.04	9.88	8.66	7.19	5.90	4.94	4.22	3.66	3.21	2.84	2.54	2.28	2.07	1.88	1.73	1.59
	1000S250-97	50	23.33	23.01	22.57	22.03	21.40	20.71	19.99	18.05	15.69	13.31	11.00	9.07	7.63	6.53	5.67	4.97	4.40	3.93	3.53	3.19	2.90	2.64	2.39
	1000S300-54	50	9.71	9.64	9.54	9.42	9.27	9.09	8.90	8.44	7.92	7.34	6.71	6.05	5.45	4.83	4.22	3.68	3.24	2.88	2.58	2.33	2.12	1.93	1.77
	1000S300-68	50	13.81	13.71	13.56	13.38	13.15	12.89	12.60	11.92	11.13	10.38	9.59	8.54	7.48	6.46	5.57	4.87	4.30	3.83	3.43	3.10	2.82	2.58	2.37
	1000S300-97	50	24.75	24.57	24.31	23.99	23.60	23.15	22.59	20.96	19.17	17.32	15.54	13.68	11.60	9.89	8.56	7.49	6.62	5.91	5.31	4.80	4.36	3.98	3.65

Notes:

- 1 Listed axial loads marked with " * " indicate the KL/r > 300.
- 2 Listed axial loads marked with "ws" indicate that h/t > 200. This indicates that web stiffeners are required to prevent web crippling at points of concentrated loads.
- 3 Listed capacities are calculated per AISI-NASPEC S100-12.

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ALLOWABLE UNBRACED AXIAL LOADS

Based on length (Kips)

12" Stud	Member	Fy (ksi)	Unbraced Length (ft)																						
			1	1.5	2	2.5	3	3.5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1200S162-54	50	8.43 ws	8.16 ws	7.80 ws	7.17 ws	6.47 ws	5.74 ws	5.01 ws	3.63 ws	2.71 ws	2.12 ws	1.72 ws	1.44 ws	1.22 ws	1.06 ws	0.93 ws	0.82 * ws	0.73 * ws	0.66 * ws	0.60 * ws	0.55 * ws	0.50 * ws	0.46 * ws	0.43 * ws
	1200S162-68	50	11.70	11.15	10.44	9.59	8.65	7.67	6.68	4.84	3.64	2.87	2.34	1.96	1.67	1.44	1.27 *	1.12 *	1.00 *	0.90 *	0.81 *	0.74 *	0.68 *	0.62 *	0.57 *
	1200S162-97	50	18.66	17.77	16.59	15.19	13.65	12.04	10.43	7.54	5.72	4.53	3.70	3.09	2.63	2.27	1.98 *	1.74 *	1.51 *	1.31 *	1.15 *	1.02 *	0.91 *	0.82 *	0.74 *
	1200S200-54	50	9.27 ws	9.15 ws	8.98 ws	8.78 ws	8.49 ws	8.11 ws	7.49 ws	6.17 ws	4.88 ws	3.78 ws	3.03 ws	2.50 ws	2.11 ws	1.81 ws	1.58 ws	1.39 ws	1.24 ws	1.11 ws	1.01 ws	0.91 * ws	0.84 * ws	0.77 * ws	0.71 * ws
	1200S200-68	50	13.44	13.19	12.88	12.30	11.58	10.79	9.94	8.18	6.47	5.03	4.06	3.36	2.85	2.45	2.14	1.89	1.68	1.51	1.37 *	1.25 *	1.14 *	1.05 *	0.97 *
	1200S200-97	50	21.74	21.14	20.32	19.31	18.15	16.88	15.53	12.73	10.00	7.84	6.36	5.30	4.50	3.88	3.38	2.99	2.66	2.38	2.14 *	1.94 *	1.76 *	1.58 *	1.42 *
	1200S250-54	50	9.55 ws	9.44 ws	9.29 ws	9.09 ws	8.86 ws	8.59 ws	8.28 ws	7.59 ws	6.92 ws	6.18 ws	5.15 ws	4.21 ws	3.53 ws	3.01 ws	2.60 ws	2.28 ws	2.02 ws	1.81 ws	1.63 ws	1.48 ws	1.35 ws	1.23 ws	1.14 ws
	1200S250-68	50	13.51	13.37	13.17	12.93	12.64	12.31	11.94	10.86	9.67	8.31	6.80	5.59	4.70	4.02	3.49	3.06	2.72	2.44	2.20	2.00	1.82	1.67	1.54
	1200S250-97	50	23.46	23.11	22.64	22.06	21.39	20.66	19.91	17.75	15.28	12.82	10.48	8.66	7.32	6.28	5.47	4.82	4.28	3.84	3.46	3.14	2.87	2.63	2.42 *
	1200S300-54	50	9.73 ws	9.65 ws	9.55 ws	9.42 ws	9.26 ws	9.08 ws	8.87 ws	8.40 ws	7.84 ws	7.22 ws	6.57 ws	5.88 ws	5.30 ws	4.66 ws	4.02 ws	3.50 ws	3.09 ws	2.75 ws	2.47 ws	2.23 ws	2.03 ws	1.86 ws	1.71 ws
1200S300-68	50	13.85	13.74	13.59	13.39	13.15	12.88	12.57	11.84	11.03	10.25	9.43	8.27	7.22	6.16	5.32	4.66	4.12	3.67	3.30	2.99	2.72	2.49	2.29	
1200S300-97	50	24.89	24.69	24.42	24.08	23.66	23.18	22.53	20.82	18.95	17.04	15.25	13.19	11.12	9.51	8.25	7.24	6.42	5.74	5.17	4.69	4.27	3.91	3.60	

- Notes:
- 1 Listed axial loads marked with " * " indicate the KL/r > 300.
 - 2 Listed axial loads marked with "ws" indicate that h/t > 200. This indicates that web stiffeners are required to prevent web crippling at points of concentrated loads.
 - 3 Listed capacities are calculated per AISI-NASPEC S100-12.

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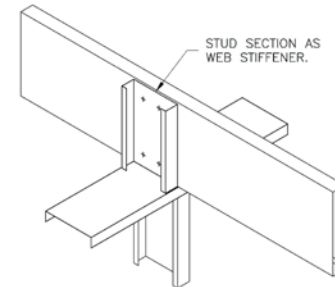
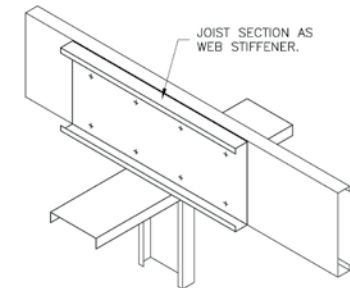
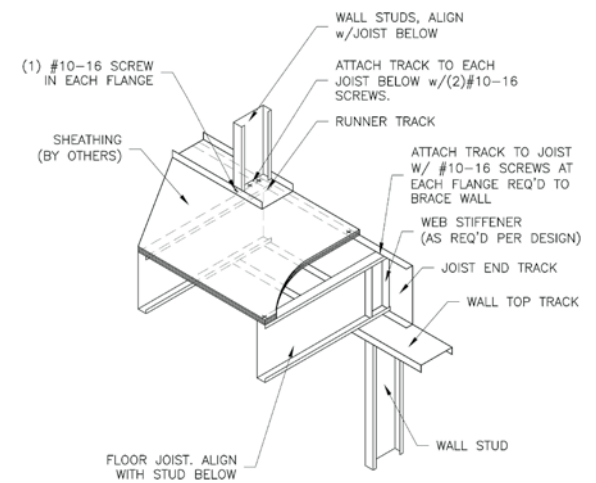
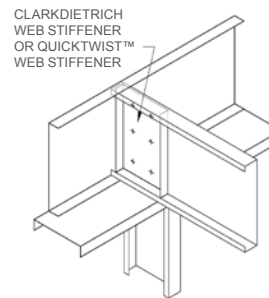
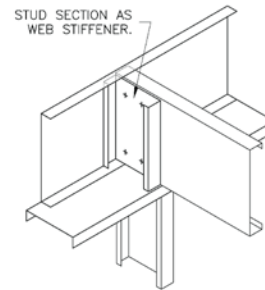
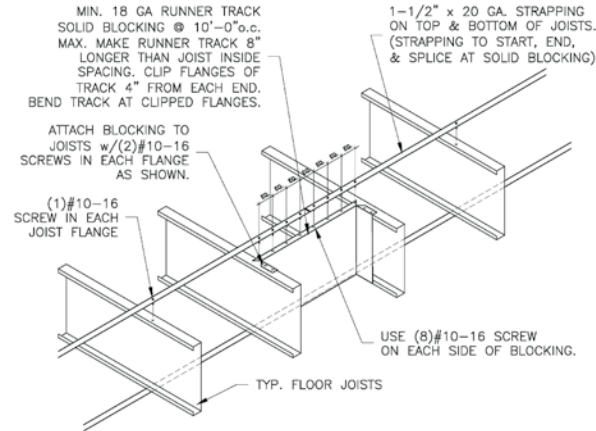
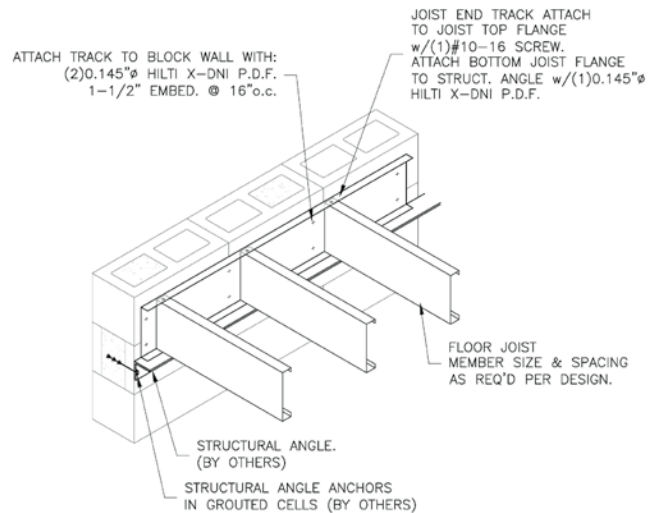


FLOOR JOIST FRAMING

Overview

General Notes:

- 1 Spans are based on continuous support of compression flange over the full length of the joist.
- 2 Joist deflection limitations are based upon $L/240$ for the total load (TL) and $L/360$ or $L/480$ for live load (LL).
- 3 For two equal spans, the listed span is the distance from either end to the center support, with the joist continuous over the center support.
- 4 Joists must be braced against rotation at all supports.
- 5 For two equal, continuous span conditions, alternate span live load has been considered.
- 6 The strength increase due to cold work of forming was incorporated for flexural strength as applicable per the AISI-NASPEC A7.2.
- 7 The yield stress (33ksi or 50ksi) used to calculate tabulated values is indicated in each table.
- 8 A 3-1/2" bearing length was used at all support locations in the preparation of these tables. Joist flanges must be fastened to the support.
- 9 A punchout pattern for ClarkDietrich joists is a 4" long by 1-1/2" wide oval.
- 10 Unpunched joists are available, but must be indicated when ordering.
- 11 Web punchouts located near a bearing location may need reinforcement.
- 12 Listed capacities are calculated per AISI-NASPEC S100-2012. Stud distortional buckling based on an assumed $K\phi=0$.
- 13 Joist bridging opposite the sheathed flange is recommended at a maximum of 8 ft. o.c. when sheathing is applied to only the compression flange.



Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 20psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	13' 6"	11' 8"	9' 6" e	13' 6" i	11' 8" i	9' 6" i	13' 6"	11' 8"	9' 6" e	13' 6" i	11' 8" i	9' 6" i
600S137-43	33	16' 3"	14' 0"	11' 6"	16' 3" i	14' 0" i	11' 6" i	14' 11"	13' 7"	11' 6"	16' 3" i	14' 0" i	11' 6" i
600S137-54	50	17' 8"	16' 0"	14' 0"	19' 10"	18' 0" i	15' 4" i	16' 0"	14' 7"	12' 9"	18' 0"	16' 4"	14' 4" i
600S137-68	50	18' 11"	17' 2"	15' 0"	21' 3"	19' 3"	16' 10" i	17' 2"	15' 7"	13' 8"	19' 3"	17' 6"	15' 4"
600S137-97	50	20' 11"	19' 0"	16' 7"	23' 6"	21' 4"	18' 8"	19' 0"	17' 3"	15' 1"	21' 4"	19' 5"	16' 11"
600S162-33	33	14' 6"	12' 7" e	10' 3" e	14' 6" i	12' 7" i	10' 3" a	14' 4"	12' 7" e	10' 3" e	14' 6" i	12' 7" i	10' 3" a
600S162-43	33	17' 2"	15' 6"	12' 8"	17' 11" i	15' 6" i	12' 8" i	15' 7"	14' 2"	12' 5"	17' 6" i	15' 6" i	12' 8" i
600S162-54	50	18' 5"	16' 9"	14' 7"	20' 8"	18' 9" i	16' 5" i	16' 9"	15' 2"	13' 3"	18' 9"	17' 1"	14' 11" i
600S162-68	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"
600S162-97	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"
600S200-33	33	15' 6"	13' 5" e	10' 11" e	15' 6" i	13' 5" i	10' 11" a	15' 0"	13' 5" e	10' 11" e	15' 6" i	13' 5" i	10' 11" a
600S200-43	33	18' 0"	16' 0"	13' 1"	18' 6" i	16' 0" i	13' 1" i	16' 5"	14' 11"	13' 0"	18' 5" i	16' 0" i	13' 1" i
600S200-54	50	19' 4"	17' 7"	15' 4"	21' 9"	19' 9" i	17' 3" i	17' 7"	16' 0"	14' 0"	19' 9"	17' 11"	15' 8" i
600S200-68	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"
600S200-97	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"
600S250-43	33	18' 11"	16' 5"	13' 5" e	19' 0" i	16' 5" i	13' 5" i	17' 2"	15' 7"	13' 5" e	19' 0" i	16' 5" i	13' 5" i
600S250-54	50	20' 2"	18' 4"	16' 0"	22' 8"	20' 7" i	17' 10" i	18' 4"	16' 8"	14' 7"	20' 7"	18' 9"	16' 4" i
600S250-68	50	21' 9"	19' 9"	17' 3"	24' 5"	22' 3"	19' 5" i	19' 9"	18' 0"	15' 8"	22' 3"	20' 2"	17' 8"
600S250-97	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"
600S300-54	50	20' 7"	18' 9"	16' 4"	23' 2"	21' 0" i	18' 2" i	18' 9"	17' 0"	14' 10"	21' 0"	19' 1"	16' 8" i
600S300-68	50	22' 6"	20' 5"	17' 10"	25' 3"	23' 0"	20' 1" i	20' 5"	18' 7"	16' 3"	23' 0"	20' 10"	18' 3"
600S300-97	50	25' 2"	22' 10"	20' 0"	28' 3"	25' 8"	22' 5"	22' 10"	20' 9"	18' 2"	25' 8"	23' 4"	20' 4"
800S137-33	33	15' 5" a	13' 4" a	10' 11" a	15' 5" a	13' 4" a	10' 0" a	15' 5" a	13' 4" a	10' 11" a	15' 5" a	13' 4" a	10' 0" a
800S137-43	33	18' 9"	16' 3"	13' 3" e	18' 9" i	16' 3" i	13' 3" i	18' 9"	16' 3"	13' 3" e	18' 9" i	16' 3" i	13' 3" i
800S137-54	50	22' 2"	20' 2"	17' 7"	24' 10" i	21' 9" i	17' 9" i	20' 2"	18' 3"	16' 0"	22' 7"	20' 6" i	17' 9" i
800S137-68	50	23' 11"	21' 9"	19' 0"	26' 11"	24' 5" i	21' 0" i	21' 9"	19' 9"	17' 3"	24' 5"	22' 2"	19' 5" i
800S137-97	50	26' 7"	24' 2"	21' 1"	29' 10"	27' 1"	23' 8"	24' 2"	21' 11"	19' 2"	27' 1"	24' 8"	21' 6"
800S162-33	33	16' 9" a	14' 6" a	11' 10" a	16' 9" a	14' 0" a	10' 6" a	16' 9" a	14' 6" a	11' 10" a	16' 9" a	14' 0" a	10' 6" a
800S162-43	33	20' 2"	17' 6"	14' 3" e	20' 2" i	17' 6" i	14' 3" i	19' 6"	17' 6"	14' 3" e	20' 2" i	17' 6" i	14' 3" i
800S162-54	50	23' 1"	20' 11"	18' 3"	25' 10" i	23' 5" i	19' 1" i	20' 11"	19' 0"	16' 7"	23' 6"	21' 4" i	18' 8" i
800S162-68	50	24' 11"	22' 8"	19' 9"	28' 0"	25' 5" i	22' 2" i	22' 8"	20' 7"	18' 0"	25' 5"	23' 1"	20' 2" i
800S162-97	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"

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 20psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	18' 0" a	15' 7" a	12' 8" a	17' 10" a	14' 7" a	10' 10" a	18' 0" a	15' 7" a	12' 8" a	17' 10" a	14' 7" a	10' 10" a
800S200-43	33	21' 7"	18' 8"	15' 3" e	21' 7" i	18' 8" i	15' 3" a	20' 7"	18' 8"	15' 3" e	21' 7" i	18' 8" i	15' 3" a
800S200-54	50	24' 4"	22' 1"	19' 4"	27' 3" i	24' 10" i	20' 5" i	22' 1"	20' 1"	17' 6"	24' 10"	22' 6" i	19' 8" i
800S200-68	50	26' 1"	23' 9"	20' 9"	29' 4"	26' 8"	23' 3" i	23' 9"	21' 7"	18' 10"	26' 8"	24' 2"	21' 2"
800S200-97	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"
800S250-43	33	22' 2"	19' 2" e	15' 8" e	22' 2" i	19' 2" i	15' 8" a	21' 5"	19' 2" e	15' 8" e	22' 2" i	19' 2" i	15' 8" a
800S250-54	50	25' 3"	22' 11"	20' 1"	28' 4" i	25' 7" i	20' 10" i	22' 11"	20' 10"	18' 3"	25' 9"	23' 5" i	20' 5" i
800S250-68	50	27' 3"	24' 9"	21' 7"	30' 7"	27' 9" i	24' 3" i	24' 9"	22' 6"	19' 8"	27' 9"	25' 3"	22' 1" i
800S250-97	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"
800S300-54	50	25' 10"	23' 5"	20' 6"	29' 0" i	25' 11" i	21' 2" i	23' 5"	21' 4"	18' 7"	26' 4" i	23' 11" i	20' 11" i
800S300-68	50	28' 0"	25' 6"	22' 3"	31' 6"	28' 7" i	24' 10" i	25' 6"	23' 2"	20' 3"	28' 7"	26' 0"	22' 8" i
800S300-97	50	31' 5"	28' 6"	24' 11"	35' 3"	32' 0"	28' 0"	28' 6"	25' 11"	22' 8"	32' 0"	29' 1"	25' 5"
1000S162-43	33	22' 4" a	19' 4" a	15' 10" a	22' 4" a	19' 4" a	15' 9" a	22' 4" a	19' 4" a	15' 10" a	22' 4" a	19' 4" a	15' 9" a
1000S162-54	50	27' 5"	24' 10"	21' 2"	30' 0" i	25' 11" i	21' 2" i	24' 10"	22' 7"	19' 9"	27' 11" i	25' 4" i	21' 2" i
1000S162-68	50	29' 8"	27' 0"	23' 7"	33' 4" i	30' 3" i	25' 0" i	27' 0"	24' 6"	21' 5"	30' 3"	27' 6" i	24' 0" i
1000S162-97	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"
1000S200-43	33	24' 1" a	20' 11" a	17' 1" a	24' 1" a	20' 11" a	16' 6" a	24' 1" a	20' 11" a	17' 1" a	24' 1" a	20' 11" a	16' 6" a
1000S200-54	50	28' 8"	26' 0"	22' 9"	32' 2" i	27' 11" i	22' 9" i	26' 0"	23' 8"	20' 8"	29' 3" i	26' 7" i	22' 9" i
1000S200-68	50	31' 0"	28' 2"	24' 7"	34' 10" i	31' 8" i	26' 9" i	28' 2"	25' 7"	22' 4"	31' 8"	28' 9"	25' 1" i
1000S200-97	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"
1000S250-54	50	30' 3"	27' 6"	23' 5"	33' 1" i	28' 8" i	23' 5" i	27' 6"	25' 0"	21' 10"	30' 10" i	28' 0" i	23' 5" i
1000S250-68	50	32' 6"	29' 7"	25' 10"	36' 6" i	33' 2" i	27' 6" i	29' 7"	26' 10"	23' 5"	33' 2"	30' 2" i	26' 4" i
1000S250-97	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"
1000S300-54	50	30' 10"	28' 0"	23' 9"	33' 7" i	29' 1" i	23' 9" i	28' 0"	25' 6"	22' 3"	31' 6" i	28' 7" i	23' 9" i
1000S300-68	50	33' 5"	30' 4"	26' 6"	37' 6" i	34' 1" i	28' 0" i	30' 4"	27' 7"	24' 1"	34' 1"	31' 0" i	27' 1" i
1000S300-97	50	37' 5"	34' 0"	29' 8"	42' 0"	38' 2"	33' 4" i	34' 0"	30' 11"	27' 0"	38' 2"	34' 8"	30' 4"
1200S162-54	50	31' 6" a	27' 11" a	22' 10" a	32' 3" a	27' 11" a	22' 10" a	28' 7" a	26' 0" a	22' 9" a	32' 2" a	27' 11" a	22' 10" a
1200S162-68	50	34' 3"	31' 1"	27' 1"	38' 4" i	33' 3" i	27' 1" i	31' 1"	28' 3"	24' 8"	34' 11" i	31' 9" i	27' 1" i
1200S162-97	50	38' 10"	35' 3"	30' 10"	43' 7"	39' 7"	34' 7" i	35' 3"	32' 0"	28' 0"	39' 7"	36' 0"	31' 5"
1200S200-54	50	32' 11" a	29' 11" a	24' 8" a	34' 11" a	30' 3" a	24' 8" a	29' 11" a	27' 2" a	23' 9" a	33' 7" a	30' 3" a	24' 8" a
1200S200-68	50	35' 9"	32' 5"	28' 4"	40' 1" i	35' 9" i	29' 2" i	32' 5"	29' 6"	25' 9"	36' 5"	33' 1" i	28' 11" i
1200S200-97	50	40' 5"	36' 8"	32' 1"	45' 4"	41' 3"	36' 0" i	36' 8"	33' 4"	29' 2"	41' 3"	37' 5"	32' 9"

Notes:

- 1 Web punchouts are not considered for shear and web crippling.
- 2 Deflection checks are computed using unbalanced loads for the two equal span conditions.
- 3 "e" indicates that the web stiffeners are required at the end support only.
- 4 "i" indicates that the web stiffeners are required at the interior support only.
- 5 "a" indicates that the web stiffeners are required at all supports.
- 6 Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- 7 See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 20psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	34' 3" a	31' 2" a	25' 6" a	36' 0" a	31' 2" a	25' 6" a	31' 2" a	28' 4" a	24' 9" a	35' 0" a	31' 2" a	25' 6" a
1200S250-68	50	37' 3"	33' 10"	29' 6"	41' 9" i	36' 11" i	30' 1" i	33' 10"	30' 9"	26' 10"	37' 11" i	34' 6" i	30' 1" i
1200S250-97	50	42' 0"	38' 2"	33' 4"	47' 1"	42' 10"	37' 5" i	38' 2"	34' 8"	30' 3"	42' 10"	38' 11"	34' 0"
1200S300-54	50	35' 10" a	31' 10" a	26' 0" a	36' 9" a	31' 10" a	25' 10" a	32' 7" a	29' 7" a	25' 10" a	36' 7" a	31' 10" a	25' 10" a
1200S300-68	50	38' 8"	35' 2"	30' 8"	43' 5" i	37' 7" i	30' 8" i	35' 2"	31' 11"	27' 11"	39' 6" i	35' 10" i	30' 8" i
1200S300-97	50	43' 3"	39' 4"	34' 4"	48' 7"	44' 2"	38' 7" i	39' 4"	35' 9"	31' 2"	44' 2"	40' 1"	35' 0"
1400S162-54	50	34' 1" a	29' 6" a	24' 1" a	34' 1" a	29' 6" a	23' 2" a	32' 2" a	29' 3" a	24' 1" a	34' 1" a	29' 6" a	23' 2" a
1400S162-68	50	38' 8"	35' 1"	28' 10"	40' 9" i	35' 3" i	28' 10" i	35' 1"	31' 11"	27' 10"	39' 5" i	35' 3" i	28' 10" i
1400S162-97	50	44' 0"	39' 11"	34' 11"	49' 4"	44' 10" i	37' 9" i	39' 11"	36' 4"	31' 8"	44' 10"	40' 9"	35' 7" i
1400S200-54	50	37' 0" a	32' 1" a	26' 2" a	37' 0" a	32' 1" a	24' 5" a	33' 8" a	30' 7" a	26' 2" a	37' 0" a	32' 1" a	24' 5" a
1400S200-68	50	40' 3"	36' 7"	31' 1"	44' 0" i	38' 1" i	31' 1" i	36' 7"	33' 3"	29' 0"	41' 0" i	37' 3" i	31' 1" i
1400S200-97	50	45' 8"	41' 6"	36' 3"	51' 3"	46' 7" i	40' 5" i	41' 6"	37' 8"	32' 11"	46' 7"	42' 4"	37' 0" i
1400S250-54	50	38' 6" a	33' 4" a	27' 2" a	38' 6" a	33' 2" a	24' 11" a	35' 0" a	31' 10" a	27' 2" a	38' 6" a	33' 2" a	24' 11" a
1400S250-68	50	41' 10"	38' 0"	32' 3"	45' 8" i	39' 7" i	32' 3" i	38' 0"	34' 7"	30' 2"	42' 8" i	38' 10" i	32' 3" i
1400S250-97	50	47' 4"	43' 0"	37' 7"	53' 2"	48' 4" i	41' 11" i	43' 0"	39' 1"	34' 2"	48' 4"	43' 11"	38' 4" i
1400S300-54	50	39' 1" a	34' 1" a	27' 10" a	39' 5" a	33' 8" a	25' 3" a	35' 6" a	32' 3" a	27' 10" a	39' 5" a	33' 8" a	25' 3" a
1400S300-68	50	43' 0"	39' 0"	33' 1"	46' 9" i	40' 6" i	33' 1" i	39' 0"	35' 6"	31' 0"	43' 10" i	39' 10" i	33' 1" i
1400S300-97	50	48' 10"	44' 4"	38' 9"	54' 10"	49' 10" i	42' 11" i	44' 4"	40' 4"	35' 2"	49' 10"	45' 3"	39' 6" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 40psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	10' 5" e	9' 1" e	7' 5" e	10' 5" i	9' 1" a	7' 3" a	10' 5" e	9' 1" e	7' 5" e	10' 5" i	9' 1" a	7' 3" a
600S137-43	33	12' 7"	10' 10"	8' 11" e	12' 7" i	10' 10" i	8' 11" i	11' 10"	10' 9"	8' 11" e	12' 7" i	10' 10" i	8' 11" i
600S137-54	50	14' 0"	12' 9"	11' 1"	15' 9" i	14' 4" i	11' 11" i	12' 9"	11' 7"	10' 1"	14' 4"	13' 0" i	11' 4" i
600S137-68	50	15' 0"	13' 8"	11' 11"	16' 10"	15' 4"	13' 4" i	13' 8"	12' 5"	10' 10"	15' 4"	13' 11"	12' 2"
600S137-97	50	16' 7"	15' 1"	13' 2"	18' 8"	16' 11"	14' 10"	15' 1"	13' 8"	12' 0"	16' 11"	15' 5"	13' 5"
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
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
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"	13' 7" i	11' 10" i
600S162-68	50	15' 8"	14' 3"	12' 5"	17' 7"	16' 0"	14' 0" i	14' 3"	12' 11"	11' 4"	16' 0"	14' 6"	12' 8"
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"
600S200-33	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
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
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"	14' 3" i	12' 5" i
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"
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"
600S250-43	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
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"	14' 10" i	13' 0" i
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
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"
600S300-54	50	16' 4"	14' 10"	13' 0"	18' 5" i	16' 8" i	14' 1" i	14' 10"	13' 6"	11' 10"	16' 8"	15' 2" i	13' 3" i
600S300-68	50	17' 10"	16' 3"	14' 2"	20' 1"	18' 3" i	15' 11" i	16' 3"	14' 9"	12' 11"	18' 3"	16' 7"	14' 6" i
600S300-97	50	20' 0"	18' 2"	15' 10"	22' 5"	20' 4"	17' 9"	18' 2"	16' 6"	14' 5"	20' 4"	18' 6"	16' 2"
800S137-33	33	11' 11" a	10' 4" a	8' 5" a	11' 5" a	9' 3" a	6' 10" a	11' 11" a	10' 4" a	8' 5" a	11' 5" a	9' 3" a	6' 10" a
800S137-43	33	14' 6"	12' 7" e	10' 3" e	14' 6" i	12' 7" i	10' 3" a	14' 6"	12' 7" e	10' 3" e	14' 6" i	12' 7" i	10' 3" a
800S137-54	50	17' 7"	16' 0"	13' 9"	19' 6" i	16' 11" i	13' 9" i	16' 0"	14' 6"	12' 8"	17' 11" i	16' 4" i	13' 9" i
800S137-68	50	19' 0"	17' 3"	15' 1"	21' 4" i	19' 5" i	16' 3" i	17' 3"	15' 8"	13' 8"	19' 5"	17' 7" i	15' 5" i
800S137-97	50	21' 1"	19' 2"	16' 9"	23' 8"	21' 6"	18' 10"	19' 2"	17' 5"	15' 3"	21' 6"	19' 7"	17' 1"
800S162-33	33	13' 0" a	11' 3" a	9' 2" a	11' 11" a	9' 8" a	7' 1" a	13' 0" a	11' 3" a	9' 2" a	11' 11" a	9' 8" a	7' 1" 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
800S162-54	50	18' 3"	16' 7"	14' 6"	20' 6" i	18' 1" i	14' 10" i	16' 7"	15' 1"	13' 2"	18' 8" i	16' 11" i	14' 10" i
800S162-68	50	19' 9"	18' 0"	15' 8"	22' 2" i	20' 2" i	17' 4" i	18' 0"	16' 4"	14' 3"	20' 2"	18' 4"	16' 0" i
800S162-97	50	22' 0"	20' 0"	17' 5"	24' 8"	22' 5"	19' 7"	20' 0"	18' 2"	15' 10"	22' 5"	20' 4"	17' 10"

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 40psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	13' 11" a	12' 1" a	9' 6" a	12' 5" a	10' 0" a	7' 3" a	13' 11" a	12' 1" a	9' 6" a	12' 5" a	10' 0" a	7' 3" a
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
800S200-54	50	19' 4" "	17' 6" "	15' 4" "	21' 8" i	19' 4" i	15' 9" i	17' 6" "	15' 11" "	13' 11" "	19' 8" i	17' 11" i	15' 7" i
800S200-68	50	20' 9" "	18' 10" "	16' 5" "	23' 3" "	21' 2" i	18' 6" i	18' 10" "	17' 1" "	14' 11" "	21' 2" "	19' 2" "	16' 9" i
800S200-97	50	23' 1" "	20' 11" "	18' 4" "	25' 11" "	23' 6" "	20' 6" "	20' 11" "	19' 0" "	16' 7" "	23' 6" "	21' 4" "	18' 8" "
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
800S250-54	50	20' 1" "	18' 3" "	15' 11" "	22' 6" i	19' 9" i	16' 2" i	18' 3" "	16' 7" "	14' 6" "	20' 5" i	18' 7" i	16' 2" i
800S250-68	50	21' 7" "	19' 8" "	17' 2" "	24' 3" i	22' 1" i	18' 11" i	19' 8" "	17' 10" "	15' 7" "	22' 1" "	20' 0" i	17' 6" i
800S250-97	50	24' 1" "	21' 11" "	19' 1" "	27' 1" "	24' 7" "	21' 6" "	21' 11" "	19' 11" "	17' 4" "	24' 7" "	22' 4" "	19' 6" "
800S300-54	50	20' 6" "	18' 7" "	16' 3" "	23' 0" i	20' 1" i	16' 5" i	18' 7" "	16' 11" "	14' 9" "	20' 11" i	19' 0" i	16' 5" i
800S300-68	50	22' 3" "	20' 3" "	17' 8" "	25' 0" i	22' 8" i	19' 3" i	20' 3" "	18' 4" "	16' 1" "	22' 8" "	20' 7" i	18' 0" i
800S300-97	50	24' 11" "	22' 8" "	19' 9" "	28' 0" "	25' 5" "	22' 3" i	22' 8" "	20' 7" "	18' 0" "	25' 5" "	23' 1" "	20' 2" "
1000S162-43	33	17' 4" a	15' 0" a	12' 3" a	17' 4" a	14' 8" a	10' 11" a	17' 4" a	15' 0" a	12' 3" a	17' 4" a	14' 8" a	10' 11" a
1000S162-54	50	21' 9" "	19' 9" "	16' 5" "	23' 2" i	20' 1" i	16' 5" i	19' 9" "	17' 11" "	15' 8" "	22' 2" i	20' 1" i	16' 5" i
1000S162-68	50	23' 7" "	21' 5" "	18' 8" "	26' 6" i	23' 9" i	19' 5" i	21' 5" "	19' 5" "	17' 0" "	24' 0" i	21' 10" i	19' 1" i
1000S162-97	50	26' 6" "	24' 1" "	21' 0" "	29' 9" "	27' 0" "	23' 7" i	24' 1" "	21' 10" "	19' 1" "	27' 0" "	24' 6" "	21' 5" "
1000S200-43	33	18' 8" a	16' 2" a	13' 2" a	18' 8" a	15' 4" a	11' 4" a	18' 8" a	16' 2" a	13' 2" a	18' 8" a	15' 4" a	11' 4" a
1000S200-54	50	22' 9" "	20' 8" "	17' 8" e	24' 11" i	21' 7" i	17' 8" i	20' 8" "	18' 9" "	16' 5" "	23' 2" i	21' 1" i	17' 8" i
1000S200-68	50	24' 7" "	22' 4" "	19' 7" "	27' 8" i	25' 1" i	20' 9" i	22' 4" "	20' 4" "	17' 9" "	25' 1" i	22' 10" i	19' 11" i
1000S200-97	50	27' 8" "	25' 1" "	21' 11" "	31' 0" "	28' 2" "	24' 8" i	25' 1" "	22' 10" "	19' 11" "	28' 2" "	25' 7" "	22' 5" "
1000S250-54	50	24' 0" "	21' 10" "	18' 1" e	25' 7" i	22' 2" i	18' 1" i	21' 10" "	19' 10" "	17' 4" e	24' 6" i	22' 2" i	18' 1" i
1000S250-68	50	25' 10" "	23' 5" "	20' 6" "	29' 0" i	26' 1" i	21' 4" i	23' 5" "	21' 4" "	18' 7" "	26' 4" i	23' 11" i	20' 11" i
1000S250-97	50	28' 9" "	26' 2" "	22' 10" "	32' 4" "	29' 4" "	25' 8" i	26' 2" "	23' 9" "	20' 9" "	29' 4" "	26' 8" "	23' 4" "
1000S300-54	50	24' 6" "	22' 3" "	18' 5" e	26' 0" i	22' 6" i	18' 5" i	22' 3" "	20' 3" "	17' 8" e	25' 0" i	22' 6" i	18' 5" i
1000S300-68	50	26' 6" "	24' 1" "	21' 1" "	29' 9" i	26' 6" i	21' 8" i	24' 1" "	21' 11" "	19' 2" "	27' 1" i	24' 7" i	21' 6" i
1000S300-97	50	29' 8" "	27' 0" "	23' 7" "	33' 4" "	30' 4" "	26' 6" i	27' 0" "	24' 6" "	21' 5" "	30' 4" "	27' 6" "	24' 1" i
1200S162-54	50	25' 0" a	21' 8" a	17' 8" a	25' 0" a	21' 8" a	16' 9" a	22' 9" a	20' 8" a	17' 8" a	25' 0" a	21' 8" a	16' 9" a
1200S162-68	50	27' 2" "	24' 8" "	21' 0" "	29' 8" i	25' 9" i	21' 0" i	24' 8" "	22' 5" "	19' 7" "	27' 9" i	25' 2" i	21' 0" i
1200S162-97	50	30' 10" "	28' 0" "	24' 5" "	34' 7" "	31' 5" i	27' 3" i	28' 0" "	25' 5" "	22' 3" "	31' 5" "	28' 7" "	24' 11" i
1200S200-54	50	26' 2" a	23' 5" a	19' 1" a	27' 0" a	23' 3" a	17' 6" a	23' 9" a	21' 7" a	18' 10" a	26' 8" a	23' 3" a	17' 6" a
1200S200-68	50	28' 4" "	25' 9" "	22' 6" "	31' 10" i	27' 8" i	22' 7" i	25' 9" "	23' 5" "	20' 5" "	28' 11" i	26' 3" i	22' 7" i
1200S200-97	50	32' 1" "	29' 2" "	25' 5" "	36' 0" "	32' 9" i	28' 7" i	29' 2" "	26' 6" "	23' 1" "	32' 9" "	29' 9" "	26' 0" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 40psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	27' 3" a	24' 2" a	19' 9" a	27' 11" a	23' 9" a	17' 10" a	24' 9" a	22' 6" a	19' 7" a	27' 9" a	23' 9" a	17' 10" a
1200S250-68	50	29' 6"	26' 10"	23' 4"	33' 0" i	28' 7" i	23' 4" i	26' 10"	24' 5"	21' 4"	30' 2" i	27' 4" i	23' 4" i
1200S250-97	50	33' 4"	30' 3"	26' 5"	37' 5"	34' 0" i	29' 8" i	30' 3"	27' 6"	24' 0"	34' 0"	30' 11"	27' 0" i
1200S300-54	50	28' 5" e	24' 8" e	20' 1" e	28' 5" a	24' 1" a	18' 0" a	25' 10" e	23' 6" e	20' 1" e	28' 5" a	24' 1" a	18' 0" a
1200S300-68	50	30' 9"	27' 11"	23' 9"	33' 8" i	29' 2" i	23' 9" i	27' 11"	25' 4"	22' 2"	31' 4" i	28' 6" i	23' 9" i
1200S300-97	50	34' 4"	31' 2"	27' 3"	38' 7"	35' 0" i	30' 7" i	31' 2"	28' 4"	24' 9"	35' 0"	31' 10"	27' 10" i
1400S162-54	50	26' 4" a	22' 10" a	18' 8" a	26' 4" a	21' 7" a	16' 1" a	25' 7" a	22' 10" a	18' 8" a	26' 4" a	21' 7" a	16' 1" a
1400S162-68	50	30' 8"	27' 4"	22' 4"	31' 6" i	27' 4" i	22' 4" i	27' 10"	25' 4"	22' 1"	31' 3" i	27' 4" i	22' 4" i
1400S162-97	50	34' 11"	31' 8"	27' 8"	39' 2" i	35' 7" i	29' 3" i	31' 8"	28' 10"	25' 2"	35' 7"	32' 4" i	28' 3" 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
1400S200-68	50	31' 11"	29' 0"	24' 1" e	34' 1" i	29' 6" i	24' 1" i	29' 0"	26' 4"	23' 0"	32' 7" i	29' 6" i	24' 1" i
1400S200-97	50	36' 3"	32' 11"	28' 9"	40' 8" i	37' 0" i	31' 4" i	32' 11"	29' 11"	26' 2"	37' 0"	33' 7" i	29' 4" i
1400S250-54	50	29' 10" a	25' 10" a	21' 1" a	28' 5" a	23' 1" a	17' 0" a	27' 9" a	25' 3" a	21' 1" a	28' 5" a	23' 1" a	17' 0" a
1400S250-68	50	33' 3"	30' 2"	25' 0" e	35' 4" i	30' 8" i	25' 0" i	30' 2"	27' 5"	24' 0"	33' 11" i	30' 8" i	25' 0" i
1400S250-97	50	37' 7"	34' 2"	29' 10"	42' 3" i	38' 4" i	32' 6" i	34' 2"	31' 0"	27' 1"	38' 4"	34' 10" i	30' 5" i
1400S300-54	50	30' 6" a	26' 5" a	21' 7" a	28' 9" a	23' 5" a	17' 3" a	28' 2" a	25' 7" a	21' 7" a	28' 9" a	23' 5" a	17' 3" a
1400S300-68	50	34' 1"	31' 0"	25' 7" e	36' 2" i	31' 4" i	25' 7" i	31' 0"	28' 2"	24' 7" e	34' 9" i	31' 4" i	25' 7" i
1400S300-97	50	38' 9"	35' 2"	30' 9"	43' 6" i	39' 6" i	33' 3" i	35' 2"	32' 0"	27' 11"	39' 6"	35' 11" i	31' 4" i

Notes:

- 1 Web punchouts are not considered for shear and web crippling.
- 2 Deflection checks are computed using unbalanced loads for the two equal span conditions.
- 3 "e" indicates that the web stiffeners are required at the end support only.
- 4 "i" indicates that the web stiffeners are required at the interior support only.
- 5 "a" indicates that the web stiffeners are required at all supports.
- 6 Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- 7 See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 50psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	9' 6" e	8' 3" e	6' 9" e	9' 6" a	8' 3" a	6' 5" a	9' 6" e	8' 3" e	6' 9" e	9' 6" a	8' 3" a	6' 5" a
600S137-43	33	11' 6"	9' 11"	8' 1" e	11' 6" i	9' 11" i	8' 1" a	11' 0"	9' 11"	8' 1" e	11' 6" i	9' 11" i	8' 1" a
600S137-54	50	13' 0"	11' 10"	10' 4"	14' 7" i	13' 3" i	10' 10" i	11' 10"	10' 9"	9' 5"	13' 3"	12' 1" i	10' 6" i
600S137-68	50	13' 11"	12' 8"	11' 1"	15' 8"	14' 3" i	12' 5" i	12' 8"	11' 6"	10' 1"	14' 3"	12' 11"	11' 3" i
600S137-97	50	15' 5"	14' 0"	12' 3"	17' 4"	15' 9"	13' 9"	14' 0"	12' 9"	11' 1"	15' 9"	14' 3"	12' 6"
600S162-33	33	10' 3" e	8' 11" e	7' 3" e	10' 3" a	8' 11" a	6' 8" a	10' 3" e	8' 11" e	7' 3" e	10' 3" a	8' 11" a	6' 8" a
600S162-43	33	12' 8"	11' 0" e	9' 0" e	12' 8" i	11' 0" i	9' 0" a	11' 6"	10' 5" e	9' 0" e	12' 8" i	11' 0" i	9' 0" a
600S162-54	50	13' 7"	12' 4"	10' 9"	15' 3" i	13' 10" i	12' 0" i	12' 4"	11' 2"	9' 9"	13' 10"	12' 7" i	11' 0" i
600S162-68	50	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0" i	13' 3"	12' 0"	10' 6"	14' 10"	13' 6"	11' 9" i
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"
600S200-33	33	10' 11" e	9' 6" e	7' 9" e	10' 11" a	9' 3" a	6' 11" a	10' 11" e	9' 6" e	7' 9" e	10' 11" a	9' 3" a	6' 11" a
600S200-43	33	13' 1"	11' 4" e	9' 3" e	13' 1" i	11' 4" i	9' 3" a	12' 1"	11' 0" e	9' 3" e	13' 1" i	11' 4" i	9' 3" a
600S200-54	50	14' 3"	13' 0"	11' 4"	16' 0" i	14' 7" i	12' 4" i	13' 0"	11' 9"	10' 3"	14' 7"	13' 3" i	11' 7" i
600S200-68	50	15' 4"	13' 11"	12' 2"	17' 2"	15' 7"	13' 8" i	13' 11"	12' 8"	11' 0"	15' 7"	14' 2"	12' 5" i
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"
600S250-43	33	13' 5" e	11' 7" e	9' 6" e	13' 5" i	11' 7" i	9' 6" a	12' 8"	11' 6" e	9' 6" e	13' 5" i	11' 7" i	9' 6" a
600S250-54	50	14' 11"	13' 6"	11' 10"	16' 8" i	15' 2" i	12' 8" i	13' 6"	12' 3"	10' 9"	15' 2" i	13' 9" i	12' 1" i
600S250-68	50	16' 1"	14' 7"	12' 9"	18' 0"	16' 4" i	14' 4" i	14' 7"	13' 3"	11' 7"	16' 4"	14' 10"	13' 0" i
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"
600S300-54	50	15' 2"	13' 10"	12' 1"	17' 1" i	15' 6" i	12' 10" i	13' 10"	12' 7"	10' 11"	15' 6" i	14' 1" i	12' 4" i
600S300-68	50	16' 7"	15' 1"	13' 2"	18' 7"	16' 11" i	14' 9" i	15' 1"	13' 8"	12' 0"	16' 11"	15' 4"	13' 5" i
600S300-97	50	18' 6"	16' 10"	14' 9"	20' 10"	18' 11"	16' 6"	16' 10"	15' 4"	13' 4"	18' 11"	17' 2"	15' 0"
800S137-33	33	10' 11" a	9' 5" a	7' 9" a	10' 0" a	8' 1" a	5' 11" a	10' 11" a	9' 5" a	7' 9" a	10' 0" a	8' 1" a	5' 11" a
800S137-43	33	13' 3" e	11' 6" e	9' 4" e	13' 3" i	11' 6" a	9' 4" a	13' 3" e	11' 6" e	9' 4" e	13' 3" i	11' 6" a	9' 4" a
800S137-54	50	16' 4"	14' 10"	12' 7"	17' 9" i	15' 5" i	12' 7" i	14' 10"	13' 6"	11' 9"	16' 8" i	15' 2" i	12' 7" i
800S137-68	50	17' 8"	16' 0"	14' 0"	19' 10" i	18' 0" i	14' 10" i	16' 0"	14' 7"	12' 9"	18' 0"	16' 4" i	14' 3" i
800S137-97	50	19' 7"	17' 10"	15' 7"	22' 0"	20' 0"	17' 5" i	17' 10"	16' 2"	14' 2"	20' 0"	18' 2"	15' 10"
800S162-33	33	11' 10" a	10' 3" a	7' 11" a	10' 6" a	8' 5" a	6' 2" a	11' 10" a	10' 3" a	7' 11" a	10' 6" a	8' 5" a	6' 2" a
800S162-43	33	14' 3" e	12' 4" e	10' 1" e	14' 3" i	12' 4" a	10' 0" a	14' 3" e	12' 4" e	10' 1" e	14' 3" i	12' 4" a	10' 0" a
800S162-54	50	17' 0"	15' 5"	13' 6"	19' 1" i	16' 6" i	13' 6" i	15' 5"	14' 0"	12' 3"	17' 4" i	15' 9" i	13' 6" i
800S162-68	50	18' 4"	16' 8"	14' 7"	20' 7" i	18' 9" i	15' 10" i	16' 8"	15' 2"	13' 3"	18' 9"	17' 0" i	14' 10" i
800S162-97	50	20' 5"	18' 6"	16' 2"	22' 11"	20' 10"	18' 2" i	18' 6"	16' 10"	14' 9"	20' 10"	18' 11"	16' 6"

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
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- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 50psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	12' 8" a	11' 0" a	7' 11" a	10' 10" a	8' 9" a	6' 4" a	12' 8" a	11' 0" a	7' 11" a	10' 10" a	8' 9" a	6' 4" a
800S200-43	33	15' 3" e	13' 3" e	10' 10" e	15' 3" a	13' 3" a	10' 5" a	15' 2" e	13' 3" e	10' 10" e	15' 3" a	13' 3" a	10' 5" a
800S200-54	50	17' 11"	16' 3"	14' 3"	20' 1" i	17' 8" i	14' 5" i	16' 3"	14' 9"	12' 11"	18' 3" i	16' 7" i	14' 5" i
800S200-68	50	19' 3"	17' 6"	15' 3"	21' 7" i	19' 7" i	17' 2" i	17' 6"	15' 11"	13' 10"	19' 7"	17' 10" i	15' 7" i
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"
800S250-43	33	15' 8" e	13' 7" e	11' 1" e	15' 8" a	13' 7" a	10' 6" a	15' 8" e	13' 7" e	11' 1" e	15' 8" a	13' 7" a	10' 6" a
800S250-54	50	18' 7"	16' 11"	14' 9" e	20' 10" i	18' 1" i	14' 9" i	16' 11"	15' 4"	13' 5"	19' 0" i	17' 3" i	14' 9" i
800S250-68	50	20' 1"	18' 3"	15' 11"	22' 6" i	20' 6" i	17' 3" i	18' 3"	16' 7"	14' 6"	20' 6"	18' 7" i	16' 3" i
800S250-97	50	22' 4"	20' 4"	17' 9"	25' 1"	22' 10"	19' 11" i	20' 4"	18' 5"	16' 1"	22' 10"	20' 9"	18' 1"
800S300-54	50	19' 0"	17' 3"	14' 11" e	21' 2" i	18' 4" i	14' 11" i	17' 3"	15' 8"	13' 9"	19' 5" i	17' 7" i	14' 11" i
800S300-68	50	20' 8"	18' 9"	16' 5"	23' 2" i	21' 1" i	17' 7" i	18' 9"	17' 1"	14' 11"	21' 1"	19' 2" i	16' 9" i
800S300-97	50	23' 2"	21' 0"	18' 4"	26' 0"	23' 7"	20' 7" i	21' 0"	19' 1"	16' 8"	23' 7"	21' 5"	18' 9"
1000S162-43	33	15' 10" a	13' 8" a	11' 2" a	15' 9" a	12' 10" a	9' 7" a	15' 10" a	13' 8" a	11' 2" a	15' 9" a	12' 10" a	9' 7" a
1000S162-54	50	20' 2"	18' 4"	15' 0" e	21' 2" i	18' 4" i	15' 0" i	18' 4"	16' 8"	14' 7" e	20' 7" i	18' 4" i	15' 0" i
1000S162-68	50	21' 11"	19' 11"	17' 4"	24' 7" i	21' 8" i	17' 8" i	19' 11"	18' 1"	15' 9"	22' 4" i	20' 3" i	17' 8" i
1000S162-97	50	24' 7"	22' 4"	19' 6"	27' 7"	25' 1"	21' 11" i	22' 4"	20' 3"	17' 9"	25' 1"	22' 9"	19' 11" i
1000S200-43	33	17' 1" a	14' 9" a	12' 1" a	16' 6" a	13' 5" a	9' 11" a	17' 1" a	14' 9" a	12' 1" a	16' 6" a	13' 5" a	9' 11" a
1000S200-54	50	21' 1"	19' 2"	16' 1" e	22' 9" i	19' 9" i	15' 10" i	19' 2"	17' 5"	15' 3" e	21' 6" i	19' 7" i	15' 10" i
1000S200-68	50	22' 10"	20' 9"	18' 2"	25' 8" i	23' 2" i	18' 11" i	20' 9"	18' 10"	16' 6"	23' 4" i	21' 2" i	18' 6" i
1000S200-97	50	25' 8"	23' 4"	20' 4"	28' 10"	26' 2"	22' 10" i	23' 4"	21' 2"	18' 6"	26' 2"	23' 9"	20' 9" i
1000S250-54	50	22' 3"	20' 3"	16' 6" e	23' 5" i	20' 3" i	16' 1" i	20' 3"	18' 5"	16' 1" e	22' 9" i	20' 3" i	16' 1" i
1000S250-68	50	24' 0"	21' 9"	19' 0"	26' 11" i	23' 10" i	19' 6" i	21' 9"	19' 9"	17' 3"	24' 5" i	22' 3" i	19' 5" i
1000S250-97	50	26' 9"	24' 3"	21' 3"	30' 0"	27' 3"	23' 10" i	24' 3"	22' 1"	19' 3"	27' 3"	24' 9"	21' 8" i
1000S300-54	50	22' 9"	20' 7"	16' 9" e	23' 9" i	20' 7" i	16' 3" i	20' 8"	18' 9"	16' 5" e	23' 2" i	20' 7" i	16' 3" i
1000S300-68	50	24' 8"	22' 5"	19' 7"	27' 8" i	24' 3" i	19' 9" i	22' 5"	20' 4"	17' 9"	25' 2" i	22' 10" i	19' 9" i
1000S300-97	50	27' 7"	25' 1"	21' 11"	30' 11"	28' 1" i	24' 7" i	25' 1"	22' 9"	19' 11"	28' 1"	25' 7"	22' 4" i
1200S162-54	50	22' 10" a	19' 9" a	16' 1" a	22' 10" a	19' 6" a	14' 8" a	21' 1" a	19' 2" a	16' 1" a	22' 10" a	19' 6" a	14' 8" a
1200S162-68	50	25' 3"	22' 11"	19' 2"	27' 1" i	23' 6" i	19' 2" i	22' 11"	20' 10"	18' 2"	25' 9" i	23' 5" i	19' 2" i
1200S162-97	50	28' 7"	26' 0"	22' 8"	32' 1"	29' 2" i	24' 11" i	26' 0"	23' 7"	20' 7"	29' 2"	26' 6"	23' 2" i
1200S200-54	50	24' 3" a	21' 4" a	17' 5" a	24' 8" a	20' 6" a	15' 4" a	22' 0" a	20' 0" a	17' 5" a	24' 8" a	20' 6" a	15' 4" a
1200S200-68	50	26' 4"	23' 11"	20' 8" e	29' 2" i	25' 3" i	20' 8" i	23' 11"	21' 9"	19' 0"	26' 10" i	24' 5" i	20' 8" i
1200S200-97	50	29' 9"	27' 1"	23' 8"	33' 5"	30' 4" i	26' 6" i	27' 1"	24' 7"	21' 6"	30' 4"	27' 7"	24' 1" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 50psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	25' 3" a	22' 1" a	18' 0" a	25' 6" a	20' 11" a	15' 7" a	22' 11" a	20' 10" a	18' 0" a	25' 6" a	20' 11" a	15' 7" a
1200S250-68	50	27' 5"	24' 11"	21' 4" e	30' 1" i	26' 1" i	21' 4" i	24' 11"	22' 8"	19' 9"	28' 0" i	25' 5" i	21' 4" i
1200S250-97	50	30' 11"	28' 1"	24' 7"	34' 9"	31' 7" i	27' 5" i	28' 1"	25' 6"	22' 4"	31' 7"	28' 8"	25' 0" i
1200S300-54	50	26' 0" a	22' 6" a	18' 4" a	25' 10" a	21' 2" a	15' 9" a	24' 0" a	21' 9" a	18' 4" a	25' 10" a	21' 2" a	15' 9" a
1200S300-68	50	28' 6"	25' 11"	21' 9" e	30' 8" i	26' 7" i	21' 9" i	25' 11"	23' 6"	20' 7"	29' 1" i	26' 5" i	21' 9" i
1200S300-97	50	31' 11"	29' 0"	25' 4"	35' 10" i	32' 6" i	28' 0" i	29' 0"	26' 4"	23' 0"	32' 6"	29' 7" i	25' 10" i
1400S162-54	50	24' 1" a	20' 10" a	17' 0" a	23' 2" a	18' 11" a	14' 0" a	23' 9" a	20' 10" a	17' 0" a	23' 2" a	18' 11" a	14' 0" a
1400S162-68	50	28' 6"	24' 11"	20' 4" e	28' 10" i	24' 11" i	20' 4" i	25' 10"	23' 6"	20' 4" e	28' 10" i	24' 11" i	20' 4" i
1400S162-97	50	32' 5"	29' 5"	25' 9"	36' 4" i	32' 8" i	26' 8" i	29' 5"	26' 9"	23' 4"	33' 1"	30' 0" i	26' 3" i
1400S200-54	50	26' 2" a	22' 8" a	18' 6" a	24' 5" a	19' 10" a	14' 7" a	24' 9" a	22' 6" a	18' 6" a	24' 5" a	19' 10" a	14' 7" a
1400S200-68	50	29' 8"	26' 11"	22' 0" e	31' 1" i	26' 11" i	22' 0" i	26' 11"	24' 6"	21' 5" e	30' 3" i	26' 11" i	22' 0" i
1400S200-97	50	33' 8"	30' 7"	26' 9"	37' 9" i	34' 4" i	28' 7" i	30' 7"	27' 9"	24' 3"	34' 4"	31' 2" i	27' 3" i
1400S250-54	50	27' 2" a	23' 7" a	19' 3" a	24' 11" a	20' 2" a	14' 10" a	25' 9" a	23' 5" a	19' 3" a	24' 11" a	20' 2" a	14' 10" a
1400S250-68	50	30' 10"	28' 0"	22' 10" e	32' 3" i	28' 0" i	22' 6" i	28' 0"	25' 6"	22' 3" e	31' 6" i	28' 0" i	22' 6" i
1400S250-97	50	34' 11"	31' 9"	27' 8"	39' 2" i	35' 7" i	29' 8" i	31' 9"	28' 10"	25' 2"	35' 7"	32' 4" i	28' 3" i
1400S300-54	50	27' 10" a	24' 2" a	19' 7" a	25' 3" a	20' 5" a	14' 11" a	26' 2" a	23' 9" a	19' 7" a	25' 3" a	20' 5" a	14' 11" a
1400S300-68	50	31' 8"	28' 7"	23' 4" e	33' 1" i	28' 7" i	22' 10" i	28' 9"	26' 2"	22' 10" e	32' 4" i	28' 7" i	22' 10" i
1400S300-97	50	36' 0"	32' 8"	28' 7"	40' 5" i	36' 8" i	30' 4" i	32' 8"	29' 8"	25' 11"	36' 8"	33' 4" i	29' 1" i

Notes:

- 1 Web punchouts are not considered for shear and web crippling.
- 2 Deflection checks are computed using unbalanced loads for the two equal span conditions.
- 3 "e" indicates that the web stiffeners are required at the end support only.
- 4 "i" indicates that the web stiffeners are required at the interior support only.
- 5 "a" indicates that the web stiffeners are required at all supports.
- 6 Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- 7 See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 100psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	7' 1" e	6' 1" e	5' 0" e	6' 10" a	5' 7" a	4' 1" a	7' 1" e	6' 1" e	5' 0" e	6' 10" a	5' 7" a	4' 1" a
600S137-43	33	8' 6" e	7' 4" e	6' 0" e	8' 6" a	7' 4" a	6' 0" a	8' 6" e	7' 4" e	6' 0" e	8' 6" a	7' 4" a	6' 0" a
600S137-54	50	10' 4"	9' 5"	8' 0"	11' 4" i	9' 10" i	8' 0" i	9' 5"	8' 6"	7' 5"	10' 6" i	9' 7" i	8' 0" i
600S137-68	50	11' 1"	10' 1"	8' 9"	12' 5" i	11' 3" i	9' 4" i	10' 1"	9' 2"	8' 0"	11' 3"	10' 3" i	8' 11" i
600S137-97	50	12' 3"	11' 1"	9' 9"	13' 9"	12' 6"	10' 11" i	11' 1"	10' 1"	8' 10"	12' 6"	11' 4"	9' 11"
600S162-33	33	7' 7" e	6' 7" e	5' 4" e	7' 1" a	5' 9" a	4' 3" a	7' 7" e	6' 7" e	5' 4" e	7' 1" a	5' 9" a	4' 3" a
600S162-43	33	9' 4" e	8' 1" e	6' 7" e	9' 4" a	8' 1" a	6' 7" a	9' 1" e	8' 1" e	6' 7" e	9' 4" a	8' 1" a	6' 7" a
600S162-54	50	10' 9"	9' 9"	8' 7" e	12' 1" i	10' 10" i	8' 10" i	9' 9"	8' 11"	7' 9"	11' 0" i	10' 0" i	8' 9" i
600S162-68	50	11' 7"	10' 6"	9' 2"	13' 0" i	11' 9" i	10' 4" i	10' 6"	9' 6"	8' 4"	11' 9"	10' 8" i	9' 4" i
600S162-97	50	12' 10"	11' 8"	10' 2"	14' 4"	13' 1"	11' 5" i	11' 8"	10' 7"	9' 3"	13' 1"	11' 10"	10' 4"
600S200-33	33	8' 1" e	7' 0" e	5' 9" e	7' 4" a	6' 0" a	4' 4" a	8' 1" e	7' 0" e	5' 9" e	7' 4" a	6' 0" a	4' 4" a
600S200-43	33	9' 8" e	8' 4" e	6' 10" e	9' 8" a	8' 4" a	6' 10" a	9' 7" e	8' 4" e	6' 10" e	9' 8" a	8' 4" a	6' 10" a
600S200-54	50	11' 4"	10' 3"	9' 0" e	12' 9" i	11' 2" i	9' 1" i	10' 3"	9' 4"	8' 2"	11' 7" i	10' 6" i	9' 1" i
600S200-68	50	12' 2"	11' 0"	9' 8"	13' 8" i	12' 5" i	10' 10" i	11' 0"	10' 0"	8' 9"	12' 5"	11' 3" i	9' 10" i
600S200-97	50	13' 6"	12' 3"	10' 8"	15' 2"	13' 9"	12' 0" i	12' 3"	11' 2"	9' 9"	13' 9"	12' 6"	10' 11"
600S250-43	33	9' 11" e	8' 7" e	7' 0" e	9' 11" a	8' 7" a	7' 0" a	9' 11" e	8' 7" e	7' 0" e	9' 11" a	8' 7" a	7' 0" a
600S250-54	50	11' 10"	10' 9"	9' 4" e	13' 2" i	11' 5" i	9' 4" i	10' 9"	9' 9"	8' 6" e	12' 1" i	10' 11" i	9' 4" i
600S250-68	50	12' 9"	11' 7"	10' 1"	14' 4" i	13' 0" i	10' 11" i	11' 7"	10' 6"	9' 2"	13' 0" i	11' 10" i	10' 4" i
600S250-97	50	14' 2"	12' 10"	11' 3"	15' 11"	14' 5"	12' 7" i	12' 10"	11' 8"	10' 3"	14' 5"	13' 1"	11' 6"
600S300-54	50	12' 1"	10' 11"	9' 6" e	13' 5" i	11' 7" i	9' 6" i	10' 11"	9' 11"	8' 8" e	12' 4" i	11' 2" i	9' 6" i
600S300-68	50	13' 2"	12' 0"	10' 5"	14' 9" i	13' 5" i	11' 1" i	12' 0"	10' 10"	9' 6"	13' 5" i	12' 2" i	10' 8" i
600S300-97	50	14' 9"	13' 4"	11' 8"	16' 6"	15' 0"	13' 1" i	13' 4"	12' 2"	10' 7"	15' 0"	13' 8"	11' 11" i
800S137-33	33	8' 1" a	6' 6" a	4' 4" a	6' 4" a	5' 1" a	3' 5" a	8' 1" a	6' 6" a	4' 4" a	6' 4" a	5' 1" a	3' 5" a
800S137-43	33	9' 9" e	8' 6" e	6' 11" e	9' 9" a	8' 3" a	6' 2" a	9' 9" e	8' 6" e	6' 11" e	9' 9" a	8' 3" a	6' 2" a
800S137-54	50	12' 11"	11' 5"	9' 3" e	13' 2" i	11' 5" i	9' 3" a	11' 9"	10' 8"	9' 3" e	13' 2" i	11' 5" i	9' 3" a
800S137-68	50	14' 0"	12' 9"	10' 11"	15' 6" i	13' 5" i	10' 11" i	12' 9"	11' 7"	10' 1"	14' 3" i	13' 0" i	10' 11" i
800S137-97	50	15' 7"	14' 2"	12' 4"	17' 5"	15' 10" i	13' 10" i	14' 2"	12' 10"	11' 3"	15' 10"	14' 5"	12' 7" i
800S162-33	33	8' 7" a	6' 6" a	4' 4" a	6' 7" a	5' 2" a	3' 5" a	8' 7" a	6' 6" a	4' 4" a	6' 7" a	5' 2" a	3' 5" a
800S162-43	33	10' 7" e	9' 2" e	7' 5" e	10' 7" a	8' 8" a	6' 5" a	10' 7" e	9' 2" e	7' 5" e	10' 7" a	8' 8" a	6' 5" a
800S162-54	50	13' 6"	12' 3" e	10' 0" e	14' 1" i	12' 3" i	10' 0" a	12' 3"	11' 1"	9' 9" e	13' 9" i	12' 3" i	10' 0" a
800S162-68	50	14' 7"	13' 3"	11' 7"	16' 4" i	14' 4" i	11' 8" i	13' 3"	12' 0"	10' 6"	14' 10" i	13' 6" i	11' 8" i
800S162-97	50	16' 2"	14' 9"	12' 10"	18' 2"	16' 6" i	14' 5" i	14' 9"	13' 4"	11' 8"	16' 6"	15' 0"	13' 1" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 100psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	8' 7" a	6' 6" a	4' 4" a	6' 9" a	5' 2" a	3' 5" a	8' 7" a	6' 6" a	4' 4" a	6' 9" a	5' 2" a	3' 5" a
800S200-43	33	11' 3" e	9' 9" e	8' 0" e	11' 0" a	9' 0" a	6' 8" a	11' 3" e	9' 9" e	8' 0" e	11' 0" a	9' 0" a	6' 8" a
800S200-54	50	14' 3" e	12' 11" e	10' 8" e	15' 1" i	13' 0" i	10' 8" a	12' 11" e	11' 9" e	10' 3" e	14' 6" i	13' 0" i	10' 8" a
800S200-68	50	15' 3" e	13' 10" e	12' 1" e	17' 2" i	15' 7" i	12' 11" i	13' 10" e	12' 7" e	11' 0" e	15' 7" i	14' 2" i	12' 4" i
800S200-97	50	17' 0" e	15' 5" e	13' 6" e	19' 1" i	17' 4" i	15' 2" i	15' 5" e	14' 0" e	12' 3" e	17' 4" e	15' 9" e	13' 9" i
800S250-43	33	11' 7" e	10' 0" e	8' 2" e	11' 2" a	9' 2" a	6' 9" a	11' 7" e	10' 0" e	8' 2" e	11' 2" a	9' 2" a	6' 9" a
800S250-54	50	14' 9" e	13' 4" e	10' 11" e	15' 5" i	13' 4" i	10' 9" a	13' 5" e	12' 2" e	10' 8" e	15' 1" i	13' 4" i	10' 9" a
800S250-68	50	15' 11" e	14' 6" e	12' 8" e	17' 11" i	15' 8" i	12' 9" i	14' 6" e	13' 2" e	11' 6" e	16' 3" i	14' 9" i	12' 9" i
800S250-97	50	17' 9" e	16' 1" e	14' 1" e	19' 11" i	18' 1" i	15' 10" i	16' 1" e	14' 8" e	12' 10" e	18' 1" i	16' 5" e	14' 4" i
800S300-54	50	15' 1" e	13' 6" e	11' 1" e	15' 7" i	13' 6" i	10' 11" a	13' 9" e	12' 5" e	10' 11" e	15' 5" i	13' 6" i	10' 11" a
800S300-68	50	16' 5" e	14' 11" e	13' 0" e	18' 4" i	15' 11" i	13' 0" i	14' 11" e	13' 6" e	11' 10" e	16' 9" i	15' 2" i	13' 0" i
800S300-97	50	18' 4" e	16' 8" e	14' 7" e	20' 7" i	18' 9" i	16' 4" i	16' 8" e	15' 2" e	13' 3" e	18' 9" e	17' 0" e	14' 10" i
1000S162-43	33	11' 8" a	10' 1" a	7' 7" a	10' 2" a	8' 2" a	5' 11" a	11' 8" a	10' 1" a	7' 7" a	10' 2" a	8' 2" a	5' 11" a
1000S162-54	50	15' 8" e	13' 7" e	11' 1" e	15' 8" i	13' 2" i	9' 11" a	14' 7" e	13' 3" e	11' 1" e	15' 8" i	13' 2" i	9' 11" a
1000S162-68	50	17' 4" e	15' 9" e	13' 1" e	18' 6" i	16' 0" i	13' 1" i	15' 9" e	14' 4" e	12' 6" e	17' 9" i	16' 0" i	13' 1" i
1000S162-97	50	19' 6" e	17' 9" e	15' 6" e	21' 11" i	19' 11" i	16' 9" i	17' 9" e	16' 1" e	14' 1" e	19' 11" i	18' 1" i	15' 9" i
1000S200-43	33	12' 7" a	10' 11" a	7' 7" a	10' 7" a	8' 6" a	6' 1" a	12' 7" a	10' 11" a	7' 7" a	10' 7" a	8' 6" a	6' 1" a
1000S200-54	50	16' 9" e	14' 7" e	11' 11" e	16' 10" i	13' 9" a	10' 3" a	15' 3" e	13' 10" e	11' 11" e	16' 10" i	13' 9" a	10' 3" a
1000S200-68	50	18' 2" e	16' 6" e	14' 0" e	19' 9" i	17' 2" i	14' 0" a	16' 6" e	15' 0" e	13' 1" e	18' 6" i	16' 10" i	14' 0" a
1000S200-97	50	20' 4" e	18' 6" e	16' 2" e	22' 10" i	20' 9" i	17' 10" i	18' 6" e	16' 10" e	14' 8" e	20' 9" e	18' 11" i	16' 6" i
1000S250-54	50	17' 3" e	14' 11" e	12' 3" e	17' 1" i	14' 0" a	10' 5" a	16' 1" e	14' 7" e	12' 3" e	17' 1" i	14' 0" a	10' 5" a
1000S250-68	50	19' 0" e	17' 3" e	14' 4" e	20' 4" i	17' 7" i	14' 4" a	17' 3" e	15' 8" e	13' 9" e	19' 5" i	17' 7" i	14' 4" a
1000S250-97	50	21' 3" e	19' 3" e	16' 10" e	23' 10" i	21' 8" i	18' 11" i	19' 3" e	17' 6" e	15' 4" e	21' 8" e	19' 8" i	17' 2" i
1000S300-54	50	17' 6" e	15' 2" e	12' 5" e	17' 3" i	14' 1" a	10' 6" a	16' 5" e	14' 11" e	12' 5" e	17' 3" i	14' 1" a	10' 6" a
1000S300-68	50	19' 7" e	17' 9" e	14' 7" e	20' 8" i	17' 11" i	14' 7" a	17' 9" e	16' 2" e	14' 1" e	19' 11" i	17' 11" i	14' 7" a
1000S300-97	50	21' 11" e	19' 11" e	17' 4" e	24' 7" i	22' 4" i	18' 9" i	19' 11" e	18' 1" e	15' 9" e	22' 3" i	20' 3" i	17' 9" i
1200S162-54	50	16' 10" a	14' 7" a	11' 11" a	15' 8" a	12' 8" a	9' 4" a	16' 9" a	14' 7" a	11' 11" a	15' 8" a	12' 8" a	9' 4" a
1200S162-68	50	20' 0" e	17' 4" e	14' 2" e	20' 0" i	17' 4" i	14' 1" a	18' 2" e	16' 6" e	14' 2" e	20' 0" i	17' 4" i	14' 1" a
1200S162-97	50	22' 8" e	20' 7" e	18' 0" e	25' 6" i	22' 6" i	18' 4" i	20' 7" e	18' 9" e	16' 4" e	23' 2" i	21' 0" i	18' 4" i
1200S200-54	50	18' 3" a	15' 9" a	12' 6" a	16' 4" a	13' 2" a	9' 8" a	17' 6" a	15' 9" a	12' 6" a	16' 4" a	13' 2" a	9' 8" a
1200S200-68	50	20' 11" e	18' 8" e	15' 3" e	21' 7" i	18' 8" i	14' 9" a	19' 0" e	17' 3" e	15' 1" e	21' 4" i	18' 8" i	14' 9" a
1200S200-97	50	23' 8" e	21' 6" e	18' 9" e	26' 6" i	24' 0" i	19' 7" i	21' 6" e	19' 6" e	17' 0" e	24' 1" i	21' 11" i	19' 2" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

Pub. No. CD-STR-TechGuide 6/17

The technical content of this literature is effective 6/1/17 and supersedes all previous information.

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FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 100psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	18' 10" a	16' 4" a	12' 6" a	16' 7" a	13' 5" a	9' 9" a	18' 3" a	16' 4" a	12' 6" a	16' 7" a	13' 5" a	9' 9" a
1200S250-68	50	21' 9"	19' 3" e	15' 9" e	22' 3" i	19' 3" i	15' 1" a	19' 9"	18' 0" e	15' 8" e	22' 2" i	19' 3" i	15' 1" a
1200S250-97	50	24' 7"	22' 4"	19' 6"	27' 7" i	24' 10" i	20' 3" i	22' 4"	20' 3"	17' 8"	25' 0" i	22' 9" i	19' 10" i
1200S300-54	50	19' 2" a	16' 7" a	12' 6" a	16' 10" a	13' 6" a	9' 10" a	19' 0" a	16' 7" a	12' 6" a	16' 10" a	13' 6" a	9' 10" a
1200S300-68	50	22' 8" e	19' 8" e	16' 0" e	22' 8" i	19' 8" a	15' 3" a	20' 7"	18' 8" e	16' 0" e	22' 8" i	19' 8" a	15' 3" a
1200S300-97	50	25' 4"	23' 0"	20' 1"	28' 5" i	25' 4" i	20' 8" i	23' 0"	20' 11"	18' 3"	25' 10" i	23' 5" i	20' 6" i
1400S162-54	50	17' 9" a	15' 5" a	10' 8" a	14' 11" a	12' 0" a	8' 7" a	17' 9" a	15' 5" a	10' 8" a	14' 11" a	12' 0" a	8' 7" a
1400S162-68	50	21' 3"	18' 5" e	15' 0" e	21' 3" i	18' 3" i	13' 8" a	20' 6"	18' 5" e	15' 0" e	21' 3" i	18' 3" i	13' 8" a
1400S162-97	50	25' 9"	23' 4"	19' 8"	27' 10" i	24' 2" i	19' 8" i	23' 4"	21' 3"	18' 7"	26' 3" i	23' 10" i	19' 8" i
1400S200-54	50	19' 4" a	16' 0" a	10' 8" a	15' 7" a	12' 5" a	8' 7" a	19' 4" a	16' 0" a	10' 8" a	15' 7" a	12' 5" a	8' 7" a
1400S200-68	50	23' 0" e	19' 11" e	16' 3" e	23' 0" i	19' 2" a	14' 4" a	21' 5"	19' 5" e	16' 3" e	23' 0" i	19' 2" a	14' 4" a
1400S200-97	50	26' 9"	24' 3"	21' 1" e	29' 10" i	25' 10" i	21' 1" i	24' 3"	22' 1"	19' 3"	27' 3" i	24' 9" i	21' 1" i
1400S250-54	50	20' 1" a	16' 0" a	10' 8" a	15' 10" a	12' 7" a	8' 7" a	20' 1" a	16' 0" a	10' 8" a	15' 10" a	12' 7" a	8' 7" a
1400S250-68	50	23' 10" e	20' 8" e	16' 10" e	23' 10" i	19' 7" a	14' 7" a	22' 3" e	20' 2" e	16' 10" e	23' 10" i	19' 7" a	14' 7" a
1400S250-97	50	27' 8"	25' 2"	21' 11" e	30' 11" i	26' 10" i	21' 11" i	25' 2"	22' 10"	20' 0"	28' 3" i	25' 8" i	21' 11" i
1400S300-54	50	20' 7" a	16' 0" a	10' 8" a	16' 0" a	12' 8" a	8' 7" a	20' 7" a	16' 0" a	10' 8" a	16' 0" a	12' 8" a	8' 7" a
1400S300-68	50	24' 5" e	21' 2" e	17' 3" e	24' 3" i	19' 10" a	14' 9" a	22' 10" e	20' 9" e	17' 3" e	24' 3" i	19' 10" a	14' 9" a
1400S300-97	50	28' 7"	25' 11"	22' 5" e	31' 8" i	27' 5" i	22' 5" i	25' 11"	23' 7"	20' 7"	29' 1" i	26' 5" i	22' 5" i

Notes:

- 1 Web punchouts are not considered for shear and web crippling.
- 2 Deflection checks are computed using unbalanced loads for the two equal span conditions.
- 3 "e" indicates that the web stiffeners are required at the end support only.
- 4 "i" indicates that the web stiffeners are required at the interior support only.
- 5 "a" indicates that the web stiffeners are required at all supports.
- 6 Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- 7 See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	6' 4" e	5' 6" e	4' 6" e	5' 11" a	4' 9" a	3' 6" a	6' 4" e	5' 6" e	4' 6" e	5' 11" a	4' 9" a	3' 6" a
600S137-43	33	7' 8" e	6' 7" e	5' 5" e	7' 8" a	6' 7" a	5' 5" a	7' 8" e	6' 7" e	5' 5" e	7' 8" a	6' 7" a	5' 5" a
600S137-54	50	9' 7"	8' 8"	7' 3" e	10' 3" i	8' 10" i	7' 3" i	8' 8"	7' 11"	6' 11" e	9' 9" i	8' 10" i	7' 3" i
600S137-68	50	10' 3"	9' 4"	8' 2"	11' 6" i	10' 4" i	8' 5" i	9' 4"	8' 6"	7' 5"	10' 6" i	9' 6" i	8' 4" i
600S137-97	50	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1" i	10' 4"	9' 4"	8' 2"	11' 7"	10' 6"	9' 2"
600S162-33	33	6' 10" e	5' 11" e	4' 9" e	6' 2" a	5' 0" a	3' 7" a	6' 10" e	5' 11" e	4' 9" e	6' 2" a	5' 0" a	3' 7" a
600S162-43	33	8' 5" e	7' 4" e	6' 0" e	8' 5" a	7' 4" a	5' 11" a	8' 5" e	7' 4" e	6' 0" e	8' 5" a	7' 4" a	5' 11" a
600S162-54	50	10' 0"	9' 1"	7' 11" e	11' 3" i	9' 10" i	8' 0" a	9' 1"	8' 3"	7' 3" e	10' 2" i	9' 3" i	8' 0" a
600S162-68	50	10' 9"	9' 9"	8' 6"	12' 0" i	10' 11" i	9' 5" i	9' 9"	8' 10"	7' 9"	10' 11" i	9' 11" i	8' 8" 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"	11' 0"	9' 7"
600S200-33	33	7' 4" e	6' 4" e	4' 9" e	6' 4" a	5' 1" a	3' 8" a	7' 4" e	6' 4" e	4' 9" e	6' 4" a	5' 1" a	3' 8" a
600S200-43	33	8' 9" e	7' 7" e	6' 2" e	8' 9" a	7' 7" a	6' 0" a	8' 9" e	7' 7" e	6' 2" e	8' 9" a	7' 7" a	6' 0" a
600S200-54	50	10' 6"	9' 7"	8' 3" e	11' 8" i	10' 1" i	8' 3" a	9' 7"	8' 8"	7' 7" e	10' 9" i	9' 9" i	8' 3" a
600S200-68	50	11' 3"	10' 3"	8' 11"	12' 8" i	11' 6" i	9' 11" i	10' 3"	9' 4"	8' 2"	11' 6" i	10' 5" i	9' 2" 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"
600S250-43	33	8' 11" e	7' 9" e	6' 4" e	8' 11" a	7' 9" a	6' 1" a	8' 11" e	7' 9" e	6' 4" e	8' 11" a	7' 9" a	6' 1" a
600S250-54	50	11' 0"	9' 11"	8' 5" e	11' 11" i	10' 4" i	8' 5" a	9' 11"	9' 1"	7' 11" e	11' 2" i	10' 2" i	8' 5" a
600S250-68	50	11' 10"	10' 9"	9' 5"	13' 3" i	12' 0" i	9' 10" i	10' 9"	9' 9"	8' 6"	12' 1" i	10' 11" i	9' 7" i
600S250-97	50	13' 2"	11' 11"	10' 5"	14' 9"	13' 5"	11' 9" i	11' 11"	10' 10"	9' 6"	13' 5"	12' 2"	10' 8" i
600S300-54	50	11' 2"	10' 2" e	8' 7" e	12' 1" i	10' 6" i	8' 7" a	10' 2"	9' 3"	8' 1" e	11' 5" i	10' 5" i	8' 7" a
600S300-68	50	12' 3"	11' 1"	9' 8"	13' 9" i	12' 3" i	10' 0" i	11' 1"	10' 1"	8' 10"	12' 6" i	11' 4" i	9' 11" i
600S300-97	50	13' 8"	12' 5"	10' 10"	15' 4"	13' 11" i	12' 2" i	12' 5"	11' 3"	9' 10"	13' 11"	12' 8"	11' 1" i
800S137-33	33	7' 0" a	5' 3" a	3' 6" a	5' 5" a	4' 3" a	2' 10" a	7' 0" a	5' 3" a	3' 6" a	5' 5" a	4' 3" a	2' 10" a
800S137-43	33	8' 10" e	7' 8" e	6' 3" e	8' 9" a	7' 2" a	5' 4" a	8' 10" e	7' 8" e	6' 3" e	8' 9" a	7' 2" a	5' 4" a
800S137-54	50	11' 10"	10' 3" e	8' 5" e	11' 10" i	10' 3" i	8' 5" a	10' 11"	9' 11" e	8' 5" e	11' 10" i	10' 3" i	8' 5" a
800S137-68	50	13' 0"	11' 10"	9' 11" e	14' 0" i	12' 1" i	9' 11" i	11' 10"	10' 9"	9' 5"	13' 3" i	12' 1" i	9' 11" i
800S137-97	50	14' 5"	13' 1"	11' 5"	16' 2" i	14' 9" i	12' 7" i	13' 1"	11' 11"	10' 5"	14' 9"	13' 5" i	11' 8" i
800S162-33	33	7' 0" a	5' 3" a	3' 6" a	5' 7" a	4' 3" a	2' 10" a	7' 0" a	5' 3" a	3' 6" a	5' 7" a	4' 3" a	2' 10" a
800S162-43	33	9' 6" e	8' 3" e	6' 9" e	9' 2" a	7' 6" a	5' 6" a	9' 6" e	8' 3" e	6' 9" e	9' 2" a	7' 6" a	5' 6" a
800S162-54	50	12' 6"	11' 0" e	9' 0" e	12' 9" i	11' 0" i	8' 10" a	11' 4"	10' 4" e	9' 0" e	12' 9" i	11' 0" i	8' 10" a
800S162-68	50	13' 6"	12' 3"	10' 7" e	14' 11" i	12' 11" i	10' 7" i	12' 3"	11' 2"	9' 9"	13' 10" i	12' 6" i	10' 7" i
800S162-97	50	15' 0"	13' 8"	11' 11"	16' 11" i	15' 4" i	13' 4" i	13' 8"	12' 5"	10' 10"	15' 4"	13' 11" i	12' 2" i

Notes:

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Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	7' 0" a	5' 3" a	3' 6" a	5' 7" a	4' 3" a	2' 10" a	7' 0" a	5' 3" a	3' 6" a	5' 7" a	4' 3" a	2' 10" a
800S200-43	33	10' 2" e	8' 10" e	7' 2" e	9' 7" a	7' 9" a	5' 9" a	10' 2" e	8' 10" e	7' 2" e	9' 7" a	7' 9" a	5' 9" a
800S200-54	50	13' 2" e	11' 9" e	9' 7" e	13' 7" i	11' 9" a	9' 3" a	12' 0" e	10' 11" e	9' 6" e	13' 6" i	11' 9" a	9' 3" a
800S200-68	50	14' 2" e	12' 11" e	11' 3" e	15' 11" i	14' 3" i	11' 7" a	12' 11" e	11' 8" e	10' 3" e	14' 5" i	13' 2" i	11' 6" a
800S200-97	50	15' 9" e	14' 4" e	12' 6" e	17' 8" e	16' 1" i	14' 1" i	14' 4" e	13' 0" e	11' 4" e	16' 1" e	14' 7" e	12' 9" i
800S250-43	33	10' 5" e	9' 0" e	7' 5" e	9' 8" a	7' 10" a	5' 9" a	10' 5" e	9' 0" e	7' 5" e	9' 8" a	7' 10" a	5' 9" a
800S250-54	50	13' 9" e	12' 0" e	9' 10" e	13' 11" i	12' 0" a	9' 4" a	12' 6" e	11' 4" e	9' 10" e	13' 11" i	12' 0" a	9' 4" a
800S250-68	50	14' 9" e	13' 5" e	11' 6" e	16' 4" i	14' 1" i	11' 6" a	13' 5" e	12' 2" e	10' 8" e	15' 1" i	13' 8" i	11' 6" a
800S250-97	50	16' 6" e	15' 0" e	13' 1" e	18' 6" i	16' 10" i	14' 8" i	15' 0" e	13' 7" e	11' 11" e	16' 10" e	15' 3" i	13' 4" i
800S300-54	50	14' 0" e	12' 2" e	10' 0" e	14' 1" i	12' 2" a	9' 5" a	12' 9" e	11' 7" e	10' 0" e	14' 1" i	12' 2" a	9' 5" a
800S300-68	50	15' 3" e	13' 10" e	11' 8" e	16' 7" i	14' 4" i	11' 8" a	13' 10" e	12' 7" e	11' 0" e	15' 6" i	14' 1" i	11' 8" a
800S300-97	50	17' 1" e	15' 6" e	13' 6" e	19' 2" i	17' 5" i	14' 11" i	15' 6" e	14' 1" e	12' 4" e	17' 5" e	15' 10" i	13' 10" i
1000S162-43	33	10' 6" a	9' 2" a	6' 2" a	8' 9" a	7' 0" a	4' 11" a	10' 6" a	9' 2" a	6' 2" a	8' 9" a	7' 0" a	4' 11" a
1000S162-54	50	14' 1" e	12' 3" e	10' 0" e	13' 11" i	11' 5" a	8' 6" a	13' 6" e	12' 3" e	10' 0" e	13' 11" i	11' 5" a	8' 6" a
1000S162-68	50	16' 1" e	14' 5" e	11' 10" e	16' 8" i	14' 5" i	11' 10" a	14' 8" e	13' 4" e	11' 7" e	16' 5" i	14' 5" i	11' 10" a
1000S162-97	50	18' 1" e	16' 5" e	14' 4" e	20' 4" i	18' 6" i	15' 1" i	16' 5" e	14' 11" e	13' 1" e	18' 6" i	16' 9" i	14' 8" i
1000S200-43	33	11' 4" a	9' 3" a	6' 2" a	9' 1" a	7' 3" a	4' 11" a	11' 4" a	9' 3" a	6' 2" a	9' 1" a	7' 3" a	4' 11" a
1000S200-54	50	15' 2" e	13' 2" e	10' 9" e	14' 7" a	11' 11" a	8' 10" a	14' 2" e	12' 10" e	10' 9" e	14' 7" a	11' 11" a	8' 10" a
1000S200-68	50	16' 10" e	15' 4" e	12' 7" e	17' 10" i	15' 6" i	12' 7" a	15' 4" e	13' 11" e	12' 2" e	17' 2" i	15' 6" i	12' 7" a
1000S200-97	50	18' 11" e	17' 2" e	15' 0" e	21' 3" i	19' 3" i	16' 1" i	17' 2" e	15' 7" e	13' 8" e	19' 3" i	17' 6" i	15' 4" i
1000S250-54	50	15' 7" e	13' 6" e	11' 0" e	14' 10" a	12' 1" a	8' 11" a	14' 11" e	13' 6" e	11' 0" e	14' 10" a	12' 1" a	8' 11" a
1000S250-68	50	17' 8" e	15' 11" e	13' 0" e	18' 4" i	15' 11" i	13' 0" a	16' 0" e	14' 7" e	12' 9" e	18' 0" i	15' 11" i	13' 0" a
1000S250-97	50	19' 8" e	17' 11" e	15' 8" e	22' 1" i	20' 1" i	17' 3" i	17' 11" e	16' 3" e	14' 2" e	20' 1" i	18' 3" i	15' 11" i
1000S300-54	50	15' 10" e	13' 8" e	11' 2" e	14' 11" a	12' 2" a	9' 0" a	15' 3" e	13' 8" e	11' 2" e	14' 11" a	12' 2" a	9' 0" a
1000S300-68	50	18' 2" e	16' 2" e	13' 2" e	18' 8" i	16' 2" i	13' 2" a	16' 6" e	15' 0" e	13' 1" e	18' 6" i	16' 2" i	13' 2" a
1000S300-97	50	20' 4" e	18' 5" e	16' 1" e	22' 10" i	20' 8" i	16' 11" i	18' 5" e	16' 9" e	14' 8" e	20' 9" i	18' 10" i	16' 5" i
1200S162-54	50	15' 2" a	13' 2" a	10' 2" a	13' 6" a	10' 10" a	7' 11" a	15' 2" a	13' 2" a	10' 2" a	13' 6" a	10' 10" a	7' 11" a
1200S162-68	50	18' 1" e	15' 8" e	12' 9" e	18' 1" i	15' 8" i	12' 3" a	16' 11" e	15' 4" e	12' 9" e	18' 1" i	15' 8" i	12' 3" a
1200S162-97	50	21' 1" e	19' 2" e	16' 7" e	23' 5" i	20' 4" i	16' 7" i	19' 2" e	17' 5" e	15' 2" e	21' 6" i	19' 6" i	16' 7" i
1200S200-54	50	16' 5" a	14' 3" a	10' 2" a	14' 0" a	11' 3" a	8' 2" a	16' 3" a	14' 3" a	10' 2" a	14' 0" a	11' 3" a	8' 2" a
1200S200-68	50	19' 5" e	16' 10" e	13' 9" e	19' 5" i	16' 10" a	12' 10" a	17' 7" e	16' 0" e	13' 9" e	19' 5" i	16' 10" a	12' 10" a
1200S200-97	50	21' 11" e	19' 11" e	17' 5" e	24' 8" i	21' 8" i	17' 8" i	19' 11" e	18' 1" e	15' 10" e	22' 4" i	20' 4" i	17' 8" i

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Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	17' 0" a	14' 9" a	10' 2" a	14' 3" a	11' 5" a	8' 2" a	16' 11" a	14' 9" a	10' 2" a	14' 3" a	11' 5" a	8' 2" a
1200S250-68	50	20' 1" e	17' 5" e	14' 2" e	20' 1" i	17' 4" a	13' 0" a	18' 4" e	16' 8" e	14' 2" e	20' 1" i	17' 4" a	13' 0" a
1200S250-97	50	22' 9" e	20' 8" e	18' 1" e	25' 7" i	22' 5" i	18' 3" i	20' 8" e	18' 10" e	16' 5" e	23' 3" i	21' 1" i	18' 3" i
1200S300-54	50	17' 4" a	15' 0" a	10' 2" a	14' 5" a	11' 6" a	8' 2" a	17' 4" a	15' 0" a	10' 2" a	14' 5" a	11' 6" a	8' 2" a
1200S300-68	50	20' 6" e	17' 9" e	14' 6" e	20' 6" i	17' 6" a	13' 2" a	19' 1" e	17' 4" e	14' 6" e	20' 6" i	17' 6" a	13' 2" a
1200S300-97	50	23' 6" e	21' 4" e	18' 8" e	26' 5" i	22' 10" i	18' 8" i	21' 4" e	19' 5" e	16' 11" e	24' 0" i	21' 9" i	18' 8" i
1400S162-54	50	16' 1" a	13' 1" a	8' 9" a	12' 9" a	10' 2" a	7' 0" a	16' 1" a	13' 1" a	8' 9" a	12' 9" a	10' 2" a	7' 0" a
1400S162-68	50	19' 2" e	16' 7" e	13' 7" e	19' 2" i	15' 10" a	11' 10" a	19' 1" e	16' 7" e	13' 7" e	19' 2" i	15' 10" a	11' 10" a
1400S162-97	50	23' 10" e	21' 8" e	17' 9" e	25' 2" i	21' 9" i	17' 9" i	21' 8" e	19' 8" e	17' 3" e	24' 4" i	21' 9" i	17' 9" i
1400S200-54	50	17' 5" a	13' 1" a	8' 9" a	13' 3" a	10' 5" a	7' 0" a	17' 5" a	13' 1" a	8' 9" a	13' 3" a	10' 5" a	7' 0" a
1400S200-68	50	20' 9" e	18' 0" e	14' 8" e	20' 3" i	16' 7" a	12' 4" a	19' 10" e	18' 0" e	14' 8" e	20' 3" i	16' 7" a	12' 4" a
1400S200-97	50	24' 10" e	22' 6" e	19' 1" e	26' 11" i	23' 4" i	19' 1" i	22' 6" e	20' 6" e	17' 11" e	25' 4" i	23' 0" i	19' 1" i
1400S250-54	50	17' 5" a	13' 1" a	8' 9" a	13' 6" a	10' 5" a	7' 0" a	17' 5" a	13' 1" a	8' 9" a	13' 6" a	10' 5" a	7' 0" a
1400S250-68	50	21' 6" e	18' 8" e	15' 3" e	20' 9" a	16' 11" a	12' 6" a	20' 8" e	18' 8" e	15' 3" e	20' 9" a	16' 11" a	12' 6" a
1400S250-97	50	25' 9" e	23' 4" e	19' 9" e	27' 11" i	24' 2" i	19' 9" a	23' 4" e	21' 3" e	18' 7" e	26' 3" i	23' 10" i	19' 9" a
1400S300-54	50	17' 5" a	13' 1" a	8' 9" a	13' 7" a	10' 5" a	7' 0" a	17' 5" a	13' 1" a	8' 9" a	13' 7" a	10' 5" a	7' 0" a
1400S300-68	50	22' 0" e	19' 1" e	15' 7" e	21' 0" a	17' 1" a	12' 8" a	21' 2" e	19' 1" e	15' 7" e	21' 0" a	17' 1" a	12' 8" a
1400S300-97	50	26' 6" e	24' 1" e	20' 3" e	28' 7" i	24' 9" i	20' 3" a	24' 1" e	21' 11" e	19' 1" e	27' 0" i	24' 7" i	20' 3" a

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
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- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

15psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	6' 3" e	5' 5" e	4' 5" e	5' 9" a	4' 8" a	3' 5" a	6' 3" e	5' 5" e	4' 5" e	5' 9" a	4' 8" a	3' 5" a
600S137-43	33	7' 6" e	6' 6" e	5' 4" e	7' 6" a	6' 6" a	5' 4" a	7' 6" e	6' 6" e	5' 4" e	7' 6" a	6' 6" a	5' 4" a
600S137-54	50	9' 7"	8' 8"	7' 1" e	10' 1" i	8' 9" i	7' 1" i	8' 8"	7' 11"	6' 11" e	9' 9" i	8' 9" i	7' 1" i
600S137-68	50	10' 3"	9' 4"	8' 2"	11' 6" i	10' 2" i	8' 4" i	9' 4"	8' 6"	7' 5"	10' 6" i	9' 6" i	8' 4" i
600S137-97	50	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 1" i	10' 4"	9' 4"	8' 2"	11' 7"	10' 6"	9' 2"
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
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
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
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
600S162-97	50	11' 11"	10' 10"	9' 5"	13' 4"	12' 1"	10' 7" i	10' 10"	9' 10"	8' 7"	12' 1"	11' 0"	9' 7" i
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
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
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
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
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
600S250-43	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
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
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
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"	12' 2"	10' 8" i
600S300-54	50	11' 2"	10' 2" e	8' 5" e	11' 11" i	10' 3" i	8' 5" a	10' 2"	9' 3"	8' 1" e	11' 5" i	10' 3" i	8' 5" a
600S300-68	50	12' 3"	11' 1"	9' 8"	13' 9" i	12' 0" i	9' 10" i	11' 1"	10' 1"	8' 10"	12' 6" i	11' 4" i	9' 10" i
600S300-97	50	13' 8"	12' 5"	10' 10"	15' 4"	13' 11" i	12' 2" i	12' 5"	11' 3"	9' 10"	13' 11"	12' 8"	11' 1" i
800S137-33	33	6' 9" a	5' 1" a	3' 5" a	5' 3" a	4' 1" a	2' 8" a	6' 9" a	5' 1" a	3' 5" a	5' 3" a	4' 1" a	2' 8" a
800S137-43	33	8' 8" e	7' 6" e	6' 2" e	8' 7" a	7' 0" a	5' 2" a	8' 8" e	7' 6" e	6' 2" e	8' 7" a	7' 0" a	5' 2" a
800S137-54	50	11' 8"	10' 1" e	8' 3" e	11' 8" i	10' 1" i	8' 3" a	10' 11"	9' 11" e	8' 3" e	11' 8" i	10' 1" i	8' 3" a
800S137-68	50	13' 0"	11' 10"	9' 9" e	13' 9" i	11' 11" i	9' 9" i	11' 10"	10' 9"	9' 5"	13' 3" i	11' 11" i	9' 9" i
800S137-97	50	14' 5"	13' 1"	11' 5"	16' 2" i	14' 9" i	12' 4" i	13' 1"	11' 11"	10' 5"	14' 9"	13' 5" i	11' 8" i
800S162-33	33	6' 9" a	5' 1" a	3' 5" a	5' 5" a	4' 1" a	2' 8" a	6' 9" a	5' 1" a	3' 5" a	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
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
800S162-68	50	13' 6"	12' 3"	10' 4" e	14' 8" i	12' 8" i	10' 4" i	12' 3"	11' 2"	9' 9" e	13' 10" i	12' 6" i	10' 4" i
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

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
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- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

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FLOOR JOIST SPAN LIMITATIONS

15psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	6' 9" a	5' 1" a	3' 5" a	5' 5" a	4' 1" a	2' 8" a	6' 9" a	5' 1" a	3' 5" a	5' 5" a	4' 1" a	2' 8" 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
800S200-54	50	13' 2" e	11' 7" e	9' 5" e	13' 4" i	11' 7" a	9' 0" a	12' 0" e	10' 11" e	9' 5" e	13' 4" i	11' 7" a	9' 0" a
800S200-68	50	14' 2" e	12' 11" e	11' 3" e	15' 11" i	14' 0" i	11' 5" a	12' 11" e	11' 8" e	10' 3" e	14' 5" i	13' 2" i	11' 5" a
800S200-97	50	15' 9" e	14' 4" e	12' 6" e	17' 8" i	16' 1" i	14' 1" i	14' 4" e	13' 0" e	11' 4" e	16' 1" e	14' 7" i	12' 9" i
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
800S250-54	50	13' 8" e	11' 10" e	9' 8" e	13' 8" i	11' 10" a	9' 1" a	12' 6" e	11' 4" e	9' 8" e	13' 8" i	11' 10" a	9' 1" a
800S250-68	50	14' 9" e	13' 5" e	11' 4" e	16' 0" i	13' 10" i	11' 4" a	13' 5" e	12' 2" e	10' 8" e	15' 1" i	13' 8" i	11' 4" a
800S250-97	50	16' 6" e	15' 0" e	13' 1" e	18' 6" i	16' 10" i	14' 8" i	15' 0" e	13' 7" e	11' 11" e	16' 10" e	15' 3" i	13' 4" i
800S300-54	50	13' 10" e	12' 0" e	9' 9" e	13' 10" i	12' 0" a	9' 2" a	12' 9" e	11' 7" e	9' 9" e	13' 10" i	12' 0" a	9' 2" a
800S300-68	50	15' 3" e	13' 10" e	11' 6" e	16' 3" i	14' 1" i	11' 6" a	13' 10" e	12' 7" e	11' 0" e	15' 6" i	14' 1" i	11' 6" a
800S300-97	50	17' 1" e	15' 6" e	13' 6" e	19' 2" i	17' 5" i	14' 8" i	15' 6" e	14' 1" e	12' 4" e	17' 5" e	15' 10" i	13' 10" i
1000S162-43	33	10' 4" a	8' 11" a	6' 0" a	8' 6" a	6' 9" a	4' 9" a	10' 4" a	8' 11" a	6' 0" a	8' 6" a	6' 9" 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
1000S162-68	50	16' 1" e	14' 2" e	11' 7" e	16' 5" i	14' 2" i	11' 7" a	14' 8" e	13' 4" e	11' 7" e	16' 5" i	14' 2" i	11' 7" a
1000S162-97	50	18' 1" e	16' 5" e	14' 4" e	20' 4" i	18' 2" i	14' 10" i	16' 5" e	14' 11" e	13' 1" e	18' 6" i	16' 9" i	14' 8" i
1000S200-43	33	11' 2" a	8' 11" a	6' 0" a	8' 10" a	7' 0" a	4' 9" a	11' 2" a	8' 11" a	6' 0" a	8' 10" a	7' 0" a	4' 9" 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
1000S200-68	50	16' 10" e	15' 2" e	12' 5" e	17' 6" i	15' 2" i	12' 5" a	15' 4" e	13' 11" e	12' 2" e	17' 2" i	15' 2" i	12' 5" a
1000S200-97	50	18' 11" e	17' 2" e	15' 0" e	21' 3" i	19' 3" i	15' 10" i	17' 2" e	15' 7" e	13' 8" e	19' 3" i	17' 6" i	15' 4" i
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
1000S250-68	50	17' 8" e	15' 7" e	12' 9" e	18' 0" i	15' 7" i	12' 9" a	16' 0" e	14' 7" e	12' 9" e	18' 0" i	15' 7" i	12' 9" a
1000S250-97	50	19' 8" e	17' 11" e	15' 8" e	22' 1" i	20' 1" i	16' 11" i	17' 11" e	16' 3" e	14' 2" e	20' 1" i	18' 3" i	15' 11" i
1000S300-54	50	15' 6" e	13' 5" e	11' 0" e	14' 7" a	11' 10" a	8' 8" a	15' 3" e	13' 5" e	11' 0" e	14' 7" a	11' 10" a	8' 8" a
1000S300-68	50	18' 2" e	15' 10" e	12' 11" e	18' 4" i	15' 10" a	12' 11" a	16' 6" e	15' 0" e	12' 11" e	18' 4" i	15' 10" a	12' 11" a
1000S300-97	50	20' 4" e	18' 5" e	16' 1" e	22' 10" i	20' 4" i	16' 7" i	18' 5" e	16' 9" e	14' 8" e	20' 9" i	18' 10" i	16' 5" i
1200S162-54	50	14' 11" a	12' 11" a	9' 10" a	13' 2" a	10' 7" a	7' 8" a	14' 11" a	12' 11" a	9' 10" a	13' 2" a	10' 7" a	7' 8" a
1200S162-68	50	17' 9" e	15' 4" e	12' 7" e	17' 9" i	15' 4" i	11' 11" a	16' 11" e	15' 4" e	12' 7" e	17' 9" i	15' 4" i	11' 11" a
1200S162-97	50	21' 1" e	19' 2" e	16' 3" e	23' 0" i	19' 11" i	16' 3" i	19' 2" e	17' 5" e	15' 2" e	21' 6" i	19' 6" i	16' 3" i
1200S200-54	50	16' 2" a	14' 0" a	9' 10" a	13' 8" a	11' 0" a	7' 10" a	16' 2" a	14' 0" a	9' 10" a	13' 8" a	11' 0" a	7' 10" a
1200S200-68	50	19' 1" e	16' 6" e	13' 6" e	19' 1" i	16' 6" a	12' 6" a	17' 7" e	16' 0" e	13' 6" e	19' 1" i	16' 6" a	12' 6" a
1200S200-97	50	21' 11" e	19' 11" e	17' 5" e	24' 7" i	21' 4" i	17' 5" i	19' 11" e	18' 1" e	15' 10" e	22' 4" i	20' 4" i	17' 5" i

Notes:

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- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
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FLOOR JOIST SPAN LIMITATIONS

15psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	16' 8" a	14' 5" a	9' 10" a	13' 10" a	11' 1" a	7' 10" a	16' 8" a	14' 5" a	9' 10" a	13' 10" a	11' 1" a	7' 10" a
1200S250-68	50	19' 9" e	17' 1" e	13' 11" e	19' 9" i	16' 10" a	12' 8" a	18' 4" e	16' 8" e	13' 11" e	19' 9" i	16' 10" a	12' 8" a
1200S250-97	50	22' 9"	20' 8"	18' 0" e	25' 5" i	22' 0" i	18' 0" i	20' 8"	18' 10"	16' 5"	23' 3" i	21' 1" i	18' 0" i
1200S300-54	50	17' 0" a	14' 9" a	9' 10" a	14' 0" a	11' 3" a	7' 10" a	17' 0" a	14' 9" a	9' 10" a	14' 0" a	11' 3" a	7' 10" a
1200S300-68	50	20' 1" e	17' 5" e	14' 3" e	20' 1" i	17' 1" a	12' 10" a	19' 1" e	17' 4" e	14' 3" e	20' 1" i	17' 1" a	12' 10" a
1200S300-97	50	23' 6"	21' 4"	18' 4" e	25' 11" i	22' 5" i	18' 4" i	21' 4"	19' 5"	16' 11" e	24' 0" i	21' 9" i	18' 4" i
1400S162-54	50	15' 9" a	12' 7" a	8' 5" a	12' 5" a	9' 10" a	6' 9" a	15' 9" a	12' 7" a	8' 5" a	12' 5" a	9' 10" a	6' 9" a
1400S162-68	50	18' 10" e	16' 4" e	13' 4" e	18' 10" i	15' 5" a	11' 6" a	18' 10" e	16' 4" e	13' 4" e	18' 10" i	15' 5" a	11' 6" a
1400S162-97	50	23' 10"	21' 5"	17' 6" e	24' 8" i	21' 5" i	17' 6" i	21' 8"	19' 8"	17' 3" e	24' 4" i	21' 5" i	17' 6" i
1400S200-54	50	16' 10" a	12' 7" a	8' 5" a	12' 11" a	10' 1" a	6' 9" a	16' 10" a	12' 7" a	8' 5" a	12' 11" a	10' 1" a	6' 9" a
1400S200-68	50	20' 4" e	17' 8" e	14' 5" e	19' 9" i	16' 2" a	12' 0" a	19' 10" e	17' 8" e	14' 5" e	19' 9" i	16' 2" a	12' 0" a
1400S200-97	50	24' 10"	22' 6"	18' 9" e	26' 6" i	22' 11" i	18' 9" i	22' 6"	20' 6"	17' 11" e	25' 4" i	22' 11" i	18' 9" i
1400S250-54	50	16' 10" a	12' 7" a	8' 5" a	13' 1" a	10' 1" a	6' 9" a	16' 10" a	12' 7" a	8' 5" a	13' 1" a	10' 1" a	6' 9" a
1400S250-68	50	21' 2" e	18' 4" e	14' 11" e	20' 3" a	16' 6" a	12' 2" a	20' 8" e	18' 4" e	14' 11" e	20' 3" a	16' 6" a	12' 2" a
1400S250-97	50	25' 9"	23' 4"	19' 5" e	27' 5" i	23' 9" i	19' 5" a	23' 4"	21' 3"	18' 7" e	26' 3" i	23' 9" i	19' 5" a
1400S300-54	50	16' 10" a	12' 7" a	8' 5" a	13' 2" a	10' 1" a	6' 9" a	16' 10" a	12' 7" a	8' 5" a	13' 2" a	10' 1" a	6' 9" a
1400S300-68	50	21' 8" e	18' 9" e	15' 4" e	20' 6" a	16' 8" a	12' 4" a	21' 2" e	18' 9" e	15' 4" e	20' 6" a	16' 8" a	12' 4" a
1400S300-97	50	26' 6"	24' 1"	19' 10" e	28' 1" i	24' 4" i	19' 10" a	24' 1"	21' 11"	19' 1" e	27' 0" i	24' 4" i	19' 10" a

Notes:

- 1 Web punchouts are not considered for shear and web crippling.

2 Deflection checks are computed using unbalanced loads for the two equal span conditions.
- 3 "e" indicates that the web stiffeners are required at the end support only.

4 "i" indicates that the web stiffeners are required at the interior support only.

5 "a" indicates that the web stiffeners are required at all supports.
- 6 Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.

7 See additional floor joist notes on page 67.

FLOOR JOIST SPAN LIMITATIONS

25psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	6' 0" e	5' 3" e	4' 3" e	5' 5" a	4' 5" a	3' 3" a	6' 0" e	5' 3" e	4' 3" e	5' 5" a	4' 5" a	3' 3" a
600S137-43	33	7' 3" e	6' 3" e	5' 2" e	7' 3" a	6' 3" a	5' 2" a	7' 3" e	6' 3" e	5' 2" e	7' 3" a	6' 3" a	5' 2" a
600S137-54	50	9' 7"	8' 5"	6' 10" e	9' 9" i	8' 5" i	6' 10" i	8' 8"	7' 11"	6' 10" e	9' 9" i	8' 5" i	6' 10" i
600S137-68	50	10' 3"	9' 4"	8' 0"	11' 4" i	9' 10" i	8' 0" i	9' 4"	8' 6"	7' 5"	10' 6" i	9' 6" i	8' 0" i
600S137-97	50	11' 4"	10' 4"	9' 0"	12' 9"	11' 7" i	10' 1" i	10' 4"	9' 4"	8' 2"	11' 7"	10' 6"	9' 2" i
600S162-33	33	6' 6" e	5' 7" e	4' 3" e	5' 8" a	4' 7" a	3' 4" a	6' 6" e	5' 7" e	4' 3" e	5' 8" a	4' 7" a	3' 4" a
600S162-43	33	8' 0" e	6' 11" e	5' 8" e	8' 0" a	6' 11" a	5' 6" a	8' 0" e	6' 11" e	5' 8" e	8' 0" a	6' 11" a	5' 6" a
600S162-54	50	10' 0"	9' 1"	7' 7" e	10' 9" i	9' 4" i	7' 7" a	9' 1"	8' 3"	7' 3" e	10' 2" i	9' 3" i	7' 7" a
600S162-68	50	10' 9"	9' 9"	8' 6"	12' 0" i	10' 11" i	8' 11" i	9' 9"	8' 10"	7' 9"	10' 11" i	9' 11" i	8' 8" i
600S162-97	50	11' 11"	10' 10"	9' 5"	13' 4"	12' 1" i	10' 7" i	10' 10"	9' 10"	8' 7"	12' 1"	11' 0"	9' 7" i
600S200-33	33	6' 11" e	6' 0" e	4' 3" e	5' 11" a	4' 8" a	3' 5" a	6' 11" e	6' 0" e	4' 3" e	5' 11" a	4' 8" a	3' 5" a
600S200-43	33	8' 3" e	7' 2" e	5' 10" e	8' 3" a	7' 2" a	5' 7" a	8' 3" e	7' 2" e	5' 10" e	8' 3" a	7' 2" a	5' 7" a
600S200-54	50	10' 6"	9' 7" e	7' 10" e	11' 0" i	9' 7" i	7' 10" a	9' 7"	8' 8"	7' 7" e	10' 9" i	9' 7" i	7' 10" a
600S200-68	50	11' 3"	10' 3"	8' 11"	12' 8" i	11' 6" i	9' 5" i	10' 3"	9' 4"	8' 2"	11' 6" i	10' 5" i	9' 2" i
600S200-97	50	12' 6"	11' 4"	9' 11"	14' 1"	12' 9" i	11' 2" i	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 2" i
600S250-43	33	8' 6" e	7' 4" e	6' 0" e	8' 6" a	7' 4" a	5' 9" a	8' 6" e	7' 4" e	6' 0" e	8' 6" a	7' 4" a	5' 9" a
600S250-54	50	11' 0"	9' 9" e	8' 0" e	11' 4" i	9' 9" i	8' 0" a	9' 11"	9' 1"	7' 11" e	11' 2" i	9' 9" i	8' 0" a
600S250-68	50	11' 10"	10' 9"	9' 4" e	13' 2" i	11' 5" i	9' 4" i	10' 9"	9' 9"	8' 6"	12' 1" i	10' 11" i	9' 4" 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"	12' 2"	10' 8" i
600S300-54	50	11' 2"	9' 11" e	8' 1" e	11' 6" i	9' 11" i	8' 1" a	10' 2"	9' 3" e	8' 1" e	11' 5" i	9' 11" i	8' 1" a
600S300-68	50	12' 3"	11' 1"	9' 6" e	13' 5" i	11' 7" i	9' 6" i	11' 1"	10' 1"	8' 10"	12' 6" i	11' 4" i	9' 6" i
600S300-97	50	13' 8"	12' 5"	10' 10"	15' 4" i	13' 11" i	12' 0" i	12' 5"	11' 3"	9' 10"	13' 11"	12' 8" i	11' 1" i
800S137-33	33	6' 4" a	4' 9" a	3' 2" a	5' 0" a	3' 9" a	2' 6" a	6' 4" a	4' 9" a	3' 2" a	5' 0" a	3' 9" a	2' 6" a
800S137-43	33	8' 5" e	7' 3" e	5' 11" e	8' 2" a	6' 8" a	4' 11" a	8' 5" e	7' 3" e	5' 11" e	8' 2" a	6' 8" a	4' 11" a
800S137-54	50	11' 3"	9' 9" e	7' 11" e	11' 3" i	9' 9" i	7' 10" a	10' 11"	9' 9" e	7' 11" e	11' 3" i	9' 9" i	7' 10" a
800S137-68	50	13' 0"	11' 6"	9' 5" e	13' 3" i	11' 6" i	9' 5" i	11' 10"	10' 9"	9' 5" e	13' 3" i	11' 6" i	9' 5" i
800S137-97	50	14' 5"	13' 1"	11' 5"	16' 2" i	14' 7" i	11' 11" i	13' 1"	11' 11"	10' 5"	14' 9"	13' 5" i	11' 8" i
800S162-33	33	6' 4" a	4' 9" a	3' 2" a	5' 1" a	3' 9" a	2' 6" a	6' 4" a	4' 9" a	3' 2" a	5' 1" a	3' 9" a	2' 6" a
800S162-43	33	9' 0" e	7' 10" e	6' 5" e	8' 6" a	6' 11" a	5' 1" a	9' 0" e	7' 10" e	6' 5" e	8' 6" a	6' 11" a	5' 1" a
800S162-54	50	12' 1" e	10' 6" e	8' 6" e	12' 1" i	10' 6" a	8' 3" a	11' 4"	10' 4" e	8' 6" e	12' 1" i	10' 6" a	8' 3" a
800S162-68	50	13' 6"	12' 3"	10' 0" e	14' 2" i	12' 3" i	10' 0" i	12' 3"	11' 2"	9' 9" e	13' 10" i	12' 3" i	10' 0" i
800S162-97	50	15' 0"	13' 8"	11' 11"	16' 11" i	15' 4" i	12' 8" i	13' 8"	12' 5"	10' 10"	15' 4"	13' 11" i	12' 2" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

25psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	6' 4" a	4' 9" a	3' 2" a	5' 1" a	3' 9" a	2' 6" a	6' 4" a	4' 9" a	3' 2" a	5' 1" a	3' 9" a	2' 6" a
800S200-43	33	9' 8" e	8' 4" e	6' 10" e	8' 10" a	7' 2" a	5' 3" a	9' 8" e	8' 4" e	6' 10" e	8' 10" a	7' 2" a	5' 3" a
800S200-54	50	12' 11" e	11' 2" e	9' 1" e	12' 11" i	11' 2" a	8' 7" a	12' 0" e	10' 11" e	9' 1" e	12' 11" i	11' 2" a	8' 7" a
800S200-68	50	14' 2" e	12' 11" e	11' 0" e	15' 7" i	13' 6" i	11' 0" a	12' 11" e	11' 8" e	10' 3" e	14' 5" i	13' 2" i	11' 0" a
800S200-97	50	15' 9" e	14' 4" e	12' 6" e	17' 8" i	16' 1" i	14' 1" i	14' 4" e	13' 0" e	11' 4" e	16' 1" e	14' 7" i	12' 9" i
800S250-43	33	9' 11" e	8' 7" e	7' 0" e	9' 0" a	7' 3" a	5' 4" a	9' 11" e	8' 7" e	7' 0" e	9' 0" a	7' 3" a	5' 4" a
800S250-54	50	13' 2" e	11' 5" e	9' 4" e	13' 2" i	11' 5" a	8' 8" a	12' 6" e	11' 4" e	9' 4" e	13' 2" i	11' 5" a	8' 8" a
800S250-68	50	14' 9" e	13' 5" e	10' 11" e	15' 6" i	13' 5" i	10' 11" a	13' 5" e	12' 2" e	10' 8" e	15' 1" i	13' 5" i	10' 11" a
800S250-97	50	16' 6" e	15' 0" e	13' 1" e	18' 6" i	16' 10" i	14' 5" i	15' 0" e	13' 7" e	11' 11" e	16' 10" e	15' 3" i	13' 4" i
800S300-54	50	13' 4" e	11' 7" e	9' 5" e	13' 4" i	11' 7" a	8' 9" a	12' 9" e	11' 7" e	9' 5" e	13' 4" i	11' 7" a	8' 9" a
800S300-68	50	15' 3" e	13' 7" e	11' 1" e	15' 8" i	13' 7" i	11' 1" a	13' 10" e	12' 7" e	11' 0" e	15' 6" i	13' 7" i	11' 1" a
800S300-97	50	17' 1" e	15' 6" e	13' 6" e	19' 2" i	17' 4" i	14' 2" i	15' 6" e	14' 1" e	12' 4" e	17' 5" i	15' 10" i	13' 10" i
1000S162-43	33	10' 0" a	8' 4" a	5' 7" a	8' 1" a	6' 5" a	4' 5" a	10' 0" a	8' 4" a	5' 7" a	8' 1" a	6' 5" a	4' 5" a
1000S162-54	50	13' 5" e	11' 7" e	9' 6" e	13' 0" i	10' 7" a	7' 10" a	13' 5" e	11' 7" e	9' 6" e	13' 0" i	10' 7" a	7' 10" a
1000S162-68	50	15' 10" e	13' 9" e	11' 2" e	15' 10" i	13' 9" i	11' 2" a	14' 8" e	13' 4" e	11' 2" e	15' 10" i	13' 9" i	11' 2" a
1000S162-97	50	18' 1" e	16' 5" e	14' 4" e	20' 3" i	17' 7" i	14' 4" i	16' 5" e	14' 11" e	13' 1" e	18' 6" i	16' 9" i	14' 4" i
1000S200-43	33	10' 9" a	8' 4" a	5' 7" a	8' 4" a	6' 8" a	4' 5" a	10' 9" a	8' 4" a	5' 7" a	8' 4" a	6' 8" a	4' 5" a
1000S200-54	50	14' 5" e	12' 6" e	10' 2" e	13' 7" a	11' 0" a	8' 1" a	14' 2" e	12' 6" e	10' 2" e	13' 7" a	11' 0" a	8' 1" a
1000S200-68	50	16' 10" e	14' 8" e	12' 0" e	16' 11" i	14' 8" i	12' 0" a	15' 4" e	13' 11" e	12' 0" e	16' 11" i	14' 8" i	12' 0" a
1000S200-97	50	18' 11" e	17' 2" e	15' 0" e	21' 3" i	18' 8" i	15' 3" i	17' 2" e	15' 7" e	13' 8" e	19' 3" i	17' 6" i	15' 3" i
1000S250-54	50	14' 9" e	12' 10" e	10' 5" e	13' 9" a	11' 2" a	8' 2" a	14' 9" e	12' 10" e	10' 5" e	13' 9" a	11' 2" a	8' 2" a
1000S250-68	50	17' 5" e	15' 1" e	12' 4" e	17' 5" i	15' 1" a	12' 4" a	16' 0" e	14' 7" e	12' 4" e	17' 5" i	15' 1" a	12' 4" a
1000S250-97	50	19' 8" e	17' 11" e	15' 8" e	22' 1" i	20' 0" i	16' 4" i	17' 11" e	16' 3" e	14' 2" e	20' 1" i	18' 3" i	15' 11" i
1000S300-54	50	15' 0" e	13' 0" e	10' 7" e	13' 11" a	11' 3" a	8' 3" a	15' 0" e	13' 0" e	10' 7" e	13' 11" a	11' 3" a	8' 3" a
1000S300-68	50	17' 8" e	15' 4" e	12' 6" e	17' 8" i	15' 4" a	12' 6" a	16' 6" e	15' 0" e	12' 6" e	17' 8" i	15' 4" a	12' 6" a
1000S300-97	50	20' 4" e	18' 5" e	16' 0" e	22' 8" i	19' 8" i	16' 0" i	18' 5" e	16' 9" e	14' 8" e	20' 9" i	18' 10" i	16' 0" i
1200S162-54	50	14' 5" a	12' 6" a	9' 2" a	12' 6" a	10' 0" a	7' 3" a	14' 5" a	12' 6" a	9' 2" a	12' 6" a	10' 0" a	7' 3" a
1200S162-68	50	17' 2" e	14' 10" e	12' 2" e	17' 2" i	14' 10" a	11' 5" a	16' 11" e	14' 10" e	12' 2" e	17' 2" i	14' 10" a	11' 5" a
1200S162-97	50	21' 1" e	19' 2" e	15' 9" e	22' 3" i	19' 3" i	15' 9" i	19' 2" e	17' 5" e	15' 2" e	21' 6" i	19' 3" i	15' 9" i
1200S200-54	50	15' 7" a	13' 6" a	9' 2" a	13' 0" a	10' 5" a	7' 4" a	15' 7" a	13' 6" a	9' 2" a	13' 0" a	10' 5" a	7' 4" a
1200S200-68	50	18' 5" e	16' 0" e	13' 1" e	18' 5" i	15' 9" a	11' 10" a	17' 7" e	16' 0" e	13' 1" e	18' 5" i	15' 9" a	11' 10" a
1200S200-97	50	21' 11" e	19' 11" e	16' 10" e	23' 9" i	20' 7" i	16' 10" i	19' 11" e	18' 1" e	15' 10" e	22' 4" i	20' 4" i	16' 10" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

25psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	16' 1" a	13' 9" a	9' 2" a	13' 2" a	10' 6" a	7' 4" a	16' 1" a	13' 9" a	9' 2" a	13' 2" a	10' 6" a	7' 4" a
1200S250-68	50	19' 1" e	16' 6" e	13' 6" e	19' 1" i	16' 1" a	12' 1" a	18' 4" e	16' 6" e	13' 6" e	19' 1" i	16' 1" a	12' 1" a
1200S250-97	50	22' 9" e	20' 8" e	17' 4" e	24' 6" i	21' 3" i	17' 4" i	20' 8" e	18' 10" e	16' 5" e	23' 3" i	21' 1" i	17' 4" i
1200S300-54	50	16' 5" a	13' 9" a	9' 2" a	13' 3" a	10' 7" a	7' 4" a	16' 5" a	13' 9" a	9' 2" a	13' 3" a	10' 7" a	7' 4" a
1200S300-68	50	19' 5" e	16' 10" e	13' 9" e	19' 5" a	16' 3" a	12' 2" a	19' 1" e	16' 10" e	13' 9" e	19' 5" a	16' 3" a	12' 2" a
1200S300-97	50	23' 6" e	21' 4" e	17' 9" e	25' 1" i	21' 8" i	17' 9" i	21' 4" e	19' 5" e	16' 11" e	24' 0" i	21' 8" i	17' 9" i
1400S162-54	50	15' 3" a	11' 9" a	7' 10" a	11' 9" a	9' 4" a	6' 3" a	15' 3" a	11' 9" a	7' 10" a	11' 9" a	9' 4" a	6' 3" a
1400S162-68	50	18' 3" e	15' 9" e	12' 11" e	18' 0" i	14' 8" a	10' 11" a	18' 3" e	15' 9" e	12' 11" e	18' 0" i	14' 8" a	10' 11" a
1400S162-97	50	23' 10" e	20' 8" e	16' 10" e	23' 10" i	20' 8" i	16' 10" i	21' 8" e	19' 8" e	16' 10" e	23' 10" i	20' 8" i	16' 10" i
1400S200-54	50	15' 8" a	11' 9" a	7' 10" a	12' 3" a	9' 5" a	6' 3" a	15' 8" a	11' 9" a	7' 10" a	12' 3" a	9' 5" a	6' 3" a
1400S200-68	50	19' 8" e	17' 1" e	13' 11" e	18' 10" a	15' 4" a	11' 4" a	19' 8" e	17' 1" e	13' 11" e	18' 10" a	15' 4" a	11' 4" a
1400S200-97	50	24' 10" e	22' 2" e	18' 1" e	25' 7" i	22' 2" i	18' 1" a	22' 6" e	20' 6" e	17' 11" e	25' 4" i	22' 2" i	18' 1" a
1400S250-54	50	15' 8" a	11' 9" a	7' 10" a	12' 5" a	9' 5" a	6' 3" a	15' 8" a	11' 9" a	7' 10" a	12' 5" a	9' 5" a	6' 3" a
1400S250-68	50	20' 5" e	17' 8" e	14' 5" e	19' 3" a	15' 8" a	11' 6" a	20' 5" e	17' 8" e	14' 5" e	19' 3" a	15' 8" a	11' 6" a
1400S250-97	50	25' 9" e	22' 11" e	18' 9" e	26' 6" i	22' 11" i	18' 9" a	23' 4" e	21' 3" e	18' 7" e	26' 3" i	22' 11" i	18' 9" a
1400S300-54	50	15' 8" a	11' 9" a	7' 10" a	12' 6" a	9' 5" a	6' 3" a	15' 8" a	11' 9" a	7' 10" a	12' 6" a	9' 5" a	6' 3" a
1400S300-68	50	20' 11" e	18' 1" e	14' 9" e	19' 6" a	15' 10" a	11' 8" a	20' 11" e	18' 1" e	14' 9" e	19' 6" a	15' 10" a	11' 8" a
1400S300-97	50	26' 6" e	23' 6" e	19' 2" e	27' 1" i	23' 6" i	19' 2" a	24' 1" e	21' 11" e	19' 1" e	27' 0" i	23' 6" i	19' 2" a

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

40psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
600S137-33	33	5' 9" e	5' 0" e	3' 10" e	5' 1" a	4' 1" a	3' 0" a	5' 9" e	5' 0" e	3' 10" e	5' 1" a	4' 1" a	3' 0" a
600S137-43	33	6' 11" e	6' 0" e	4' 11" e	6' 11" a	6' 0" a	4' 10" a	6' 11" e	6' 0" e	4' 11" e	6' 11" a	6' 0" a	4' 10" a
600S137-54	50	9' 3"	8' 0"	6' 7" e	9' 3" i	8' 0" i	6' 7" a	8' 8"	7' 11"	6' 7" e	9' 3" i	8' 0" i	6' 7" a
600S137-68	50	10' 9"	9' 4"	7' 8"	10' 10" i	9' 4" i	7' 8" i	9' 4"	8' 6"	7' 5"	10' 6" i	9' 4" i	7' 8" i
600S137-97	50	11' 4"	10' 4"	9' 0"	12' 9"	11' 7" i	10' 1" i	10' 4"	9' 4"	8' 2"	11' 7"	10' 6"	9' 2" i
600S162-33	33	6' 2" e	5' 4" e	3' 10" e	5' 3" a	4' 3" a	3' 1" a	6' 2" e	5' 4" e	3' 10" e	5' 3" a	4' 3" a	3' 1" a
600S162-43	33	7' 8" e	6' 7" e	5' 5" e	7' 8" a	6' 7" a	5' 2" a	7' 8" e	6' 7" e	5' 5" e	7' 8" a	6' 7" a	5' 2" a
600S162-54	50	10' 0"	8' 10" e	7' 3" e	10' 3" i	8' 10" i	7' 3" a	9' 1"	8' 3"	7' 3" e	10' 2" i	8' 10" i	7' 3" a
600S162-68	50	10' 9"	9' 9"	8' 6" e	12' 0" i	10' 5" i	8' 6" i	9' 9"	8' 10"	7' 9"	10' 11" i	9' 11" i	8' 6" i
600S162-97	50	11' 11"	10' 10"	9' 5"	13' 4"	12' 1" i	10' 7" i	10' 10"	9' 10"	8' 7"	12' 1"	11' 0"	9' 7" i
600S200-33	33	6' 7" e	5' 9" e	3' 10" e	5' 6" a	4' 4" a	3' 1" a	6' 7" e	5' 9" e	3' 10" e	5' 6" a	4' 4" a	3' 1" a
600S200-43	33	7' 11" e	6' 10" e	5' 7" e	7' 11" a	6' 10" a	5' 3" a	7' 11" e	6' 10" e	5' 7" e	7' 11" a	6' 10" a	5' 3" a
600S200-54	50	10' 6"	9' 1" e	7' 5" e	10' 6" i	9' 1" i	7' 5" a	9' 7"	8' 8" e	7' 5" e	10' 6" i	9' 1" i	7' 5" a
600S200-68	50	11' 3"	10' 3"	8' 11" e	12' 8" i	11' 0" i	8' 11" i	10' 3"	9' 4"	8' 2"	11' 6" i	10' 5" i	8' 11" i
600S200-97	50	12' 6"	11' 4"	9' 11"	14' 1" i	12' 9" i	11' 2" i	11' 4"	10' 4"	9' 0"	12' 9"	11' 7"	10' 2" i
600S250-43	33	8' 1" e	7' 0" e	5' 9" e	8' 1" a	7' 0" a	5' 4" a	8' 1" e	7' 0" e	5' 9" e	8' 1" a	7' 0" a	5' 4" a
600S250-54	50	10' 9"	9' 4" e	7' 7" e	10' 9" i	9' 4" i	7' 7" a	9' 11"	9' 1" e	7' 7" e	10' 9" i	9' 4" i	7' 7" a
600S250-68	50	11' 10"	10' 9"	8' 11" e	12' 7" i	10' 11" i	8' 11" i	10' 9"	9' 9"	8' 6" e	12' 1" i	10' 11" i	8' 11" i
600S250-97	50	13' 2"	11' 11"	10' 5"	14' 9" i	13' 5" i	11' 7" i	11' 11"	10' 10"	9' 6"	13' 5"	12' 2" i	10' 8" i
600S300-54	50	10' 11"	9' 6" e	7' 9" e	10' 11" i	9' 6" i	7' 9" a	10' 2"	9' 3" e	7' 9" e	10' 11" i	9' 6" i	7' 9" a
600S300-68	50	12' 3"	11' 1"	9' 1" e	12' 10" i	11' 1" i	9' 1" i	11' 1"	10' 1"	8' 10" e	12' 6" i	11' 1" i	9' 1" i
600S300-97	50	13' 8"	12' 5"	10' 10"	15' 4" i	13' 11" i	11' 5" i	12' 5"	11' 3"	9' 10"	13' 11"	12' 8" i	11' 1" i
800S137-33	33	5' 9" a	4' 4" a	2' 10" a	4' 7" a	3' 5" a	2' 4" a	5' 9" a	4' 4" a	2' 10" a	4' 7" a	3' 5" a	2' 4" a
800S137-43	33	8' 0" e	6' 11" e	5' 8" e	7' 7" a	6' 2" a	4' 7" a	8' 0" e	6' 11" e	5' 8" e	7' 7" a	6' 2" a	4' 7" a
800S137-54	50	10' 9" e	9' 3" e	7' 7" e	10' 9" i	9' 3" i	7' 5" a	10' 9" e	9' 3" e	7' 7" e	10' 9" i	9' 3" i	7' 5" a
800S137-68	50	12' 8"	10' 11"	8' 11" e	12' 8" i	10' 11" i	8' 11" i	11' 10"	10' 9"	8' 11" e	12' 8" i	10' 11" i	8' 11" i
800S137-97	50	14' 5"	13' 1"	11' 4"	16' 1" i	13' 11" i	11' 4" i	13' 1"	11' 11"	10' 5"	14' 9" i	13' 5" i	11' 4" i
800S162-33	33	5' 9" a	4' 4" a	2' 10" a	4' 7" a	3' 5" a	2' 4" a	5' 9" a	4' 4" a	2' 10" a	4' 7" a	3' 5" a	2' 4" a
800S162-43	33	8' 7" e	7' 5" e	6' 1" e	8' 0" a	6' 5" a	4' 9" a	8' 7" e	7' 5" e	6' 1" e	8' 0" a	6' 5" a	4' 9" a
800S162-54	50	11' 6" e	10' 0" e	8' 2" e	11' 6" i	10' 0" a	7' 8" a	11' 4" e	10' 0" e	8' 2" e	11' 6" i	10' 0" a	7' 8" a
800S162-68	50	13' 6"	11' 8"	9' 7" e	13' 6" i	11' 8" i	9' 7" a	12' 3"	11' 2"	9' 7" e	13' 6" i	11' 8" i	9' 7" a
800S162-97	50	15' 0"	13' 8"	11' 11"	16' 11" i	14' 9" i	12' 1" i	13' 8"	12' 5"	10' 10"	15' 4" i	13' 11" i	12' 1" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

Complies with AISI S100-12 • IBC 2015

FLOOR JOIST SPAN LIMITATIONS

40psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength Fy (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
800S200-33	33	5' 9" a	4' 4" a	2' 10" a	4' 7" a	3' 5" a	2' 4" a	5' 9" a	4' 4" a	2' 10" a	4' 7" a	3' 5" a	2' 4" a
800S200-43	33	9' 3" e	8' 0" e	6' 4" e	8' 3" a	6' 8" a	4' 11" a	9' 3" e	8' 0" e	6' 4" e	8' 3" a	6' 8" a	4' 11" a
800S200-54	50	12' 3" e	10' 8" e	8' 8" e	12' 3" i	10' 8" a	8' 0" a	12' 0" e	10' 8" e	8' 8" e	12' 3" i	10' 8" a	8' 0" a
800S200-68	50	14' 2" e	12' 11" e	10' 6" e	14' 10" i	12' 11" i	10' 6" a	12' 11" e	11' 8" e	10' 3" e	14' 5" i	12' 11" i	10' 6" a
800S200-97	50	15' 9" e	14' 4" e	12' 6" e	17' 8" i	16' 1" i	13' 6" i	14' 4" e	13' 0" e	11' 4" e	16' 1" i	14' 7" i	12' 9" i
800S250-43	33	9' 5" e	8' 2" e	6' 4" e	8' 5" a	6' 9" a	4' 11" a	9' 5" e	8' 2" e	6' 4" e	8' 5" a	6' 9" a	4' 11" a
800S250-54	50	12' 7" e	10' 11" e	8' 11" e	12' 7" a	10' 9" a	8' 1" a	12' 6" e	10' 11" e	8' 11" e	12' 7" a	10' 9" a	8' 1" a
800S250-68	50	14' 9" e	12' 9" e	10' 5" e	14' 9" i	12' 9" i	10' 5" a	13' 5" e	12' 2" e	10' 5" e	14' 9" i	12' 9" i	10' 5" a
800S250-97	50	16' 6" e	15' 0" e	13' 1" e	18' 6" i	16' 10" i	13' 9" i	15' 0" e	13' 7" e	11' 11" e	16' 10" i	15' 3" i	13' 4" i
800S300-54	50	12' 9" e	11' 1" e	9' 0" e	12' 9" a	10' 11" a	8' 2" a	12' 9" e	11' 1" e	9' 0" e	12' 9" a	10' 11" a	8' 2" a
800S300-68	50	15' 0" e	13' 0" e	10' 7" e	15' 0" i	13' 0" i	10' 7" a	13' 10" e	12' 7" e	10' 7" e	15' 0" i	13' 0" i	10' 7" a
800S300-97	50	17' 1" e	15' 6" e	13' 6" e	19' 1" i	16' 6" i	13' 6" i	15' 6" e	14' 1" e	12' 4" e	17' 5" i	15' 10" i	13' 6" i
1000S162-43	33	9' 6" a	7' 7" a	5' 1" a	7' 6" a	5' 11" a	4' 1" a	9' 6" a	7' 7" a	5' 1" a	7' 6" a	5' 11" a	4' 1" a
1000S162-54	50	12' 9" e	11' 1" e	9' 0" e	12' 2" a	9' 11" a	7' 4" a	12' 9" e	11' 1" e	9' 0" e	12' 2" a	9' 11" a	7' 4" a
1000S162-68	50	15' 1" e	13' 1" e	10' 8" e	15' 1" i	13' 1" i	10' 8" a	14' 8" e	13' 1" e	10' 8" e	15' 1" i	13' 1" i	10' 8" a
1000S162-97	50	18' 1" e	16' 5" e	13' 8" e	19' 4" i	16' 9" i	13' 8" i	16' 5" e	14' 11" e	13' 1" e	18' 6" i	16' 9" i	13' 8" i
1000S200-43	33	10' 2" a	7' 7" a	5' 1" a	7' 9" a	6' 1" a	4' 1" a	10' 2" a	7' 7" a	5' 1" a	7' 9" a	6' 1" a	4' 1" a
1000S200-54	50	13' 9" e	11' 11" e	9' 8" e	12' 8" a	10' 3" a	7' 6" a	13' 9" e	11' 11" e	9' 8" e	12' 8" a	10' 3" a	7' 6" a
1000S200-68	50	16' 2" e	14' 0" e	11' 5" e	16' 2" i	14' 0" a	11' 5" a	15' 4" e	13' 11" e	11' 5" e	16' 2" i	14' 0" a	11' 5" a
1000S200-97	50	18' 11" e	17' 2" e	14' 7" e	20' 7" i	17' 10" i	14' 7" i	17' 2" e	15' 7" e	13' 8" e	19' 3" i	17' 6" i	14' 7" i
1000S250-54	50	14' 1" e	12' 3" e	10' 0" e	12' 10" a	10' 5" a	7' 7" a	14' 1" e	12' 3" e	10' 0" e	12' 10" a	10' 5" a	7' 7" a
1000S250-68	50	16' 7" e	14' 4" e	11' 9" e	16' 7" i	14' 4" a	11' 7" a	16' 0" e	14' 4" e	11' 9" e	16' 7" i	14' 4" a	11' 7" a
1000S250-97	50	19' 8" e	17' 11" e	15' 7" e	22' 0" i	19' 1" i	15' 7" i	17' 11" e	16' 3" e	14' 2" e	20' 1" i	18' 3" i	15' 7" i
1000S300-54	50	14' 4" e	12' 5" e	10' 1" e	13' 0" a	10' 6" a	7' 8" a	14' 4" e	12' 5" e	10' 1" e	13' 0" a	10' 6" a	7' 8" a
1000S300-68	50	16' 10" e	14' 7" e	11' 11" e	16' 10" i	14' 7" a	11' 8" a	16' 6" e	14' 7" e	11' 11" e	16' 10" i	14' 7" a	11' 8" a
1000S300-97	50	20' 4" e	18' 5" e	15' 3" e	21' 7" i	18' 9" i	15' 3" i	18' 5" e	16' 9" e	14' 8" e	20' 9" i	18' 9" i	15' 3" i
1200S162-54	50	13' 9" a	11' 11" a	8' 4" a	11' 7" a	9' 4" a	6' 8" a	13' 9" a	11' 11" a	8' 4" a	11' 7" a	9' 4" a	6' 8" a
1200S162-68	50	16' 4" e	14' 2" e	11' 7" e	16' 4" i	14' 1" a	10' 7" a	16' 4" e	14' 2" e	11' 7" e	16' 4" i	14' 1" a	10' 7" a
1200S162-97	50	21' 1" e	18' 4" e	15' 0" e	21' 3" i	18' 4" i	15' 0" i	19' 2" e	17' 5" e	15' 0" e	21' 3" i	18' 4" i	15' 0" i
1200S200-54	50	14' 11" a	12' 6" a	8' 4" a	12' 1" a	9' 8" a	6' 8" a	14' 11" a	12' 6" a	8' 4" a	12' 1" a	9' 8" a	6' 8" a
1200S200-68	50	17' 7" e	15' 3" e	12' 5" e	17' 7" i	14' 9" a	11' 1" a	17' 7" e	15' 3" e	12' 5" e	17' 7" i	14' 9" a	11' 1" a
1200S200-97	50	21' 11" e	19' 7" e	16' 0" e	22' 8" i	19' 7" i	16' 0" i	19' 11" e	18' 1" e	15' 10" e	22' 4" i	19' 7" i	16' 0" i

Notes:

- Web punchouts are not considered for shear and web crippling.
- Deflection checks are computed using unbalanced loads for the two equal span conditions.
- "e" indicates that the web stiffeners are required at the end support only.
- "i" indicates that the web stiffeners are required at the interior support only.
- "a" indicates that the web stiffeners are required at all supports.
- Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- See additional floor joist notes on page 67.

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Pub. No. CD-STR-TechGuide 6/17

The technical content of this literature is effective 6/1/17 and supersedes all previous information.

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FLOOR JOIST SPAN LIMITATIONS

40psf Dead Load and 125psf Live Load (TL Deflection=L/240)

Member	Yield strength F _y (ksi)	Live Load Deflection L/360						Live Load Deflection L/480					
		Single span spacing (in) o.c.			Two equal span spacing (in) o.c.			Single span spacing (in) o.c.			Two equal span spacing (in) o.c.		
		12	16	24	12	16	24	12	16	24	12	16	24
1200S250-54	50	15' 4" a	12' 6" a	8' 4" a	12' 3" a	9' 9" a	6' 8" a	15' 4" a	12' 6" a	8' 4" a	12' 3" a	9' 9" a	6' 8" a
1200S250-68	50	18' 2" e	15' 9" e	12' 10" e	18' 2" a	15' 1" a	11' 3" a	18' 2" e	15' 9" e	12' 10" e	18' 2" a	15' 1" a	11' 3" a
1200S250-97	50	22' 9" i	20' 3" i	16' 7" e	23' 5" i	20' 3" i	16' 7" i	20' 8" i	18' 10" i	16' 5" e	23' 3" i	20' 3" i	16' 7" i
1200S300-54	50	15' 8" a	12' 6" a	8' 4" a	12' 4" a	9' 10" a	6' 8" a	15' 8" a	12' 6" a	8' 4" a	12' 4" a	9' 10" a	6' 8" a
1200S300-68	50	18' 6" e	16' 0" e	13' 1" e	18' 6" a	15' 3" a	11' 4" a	18' 6" e	16' 0" e	13' 1" e	18' 6" a	15' 3" a	11' 4" a
1200S300-97	50	23' 6" i	20' 8" i	16' 11" e	23' 11" i	20' 8" i	16' 11" i	21' 4" i	19' 5" i	16' 11" e	23' 11" i	20' 8" i	16' 11" i
1400S162-54	50	14' 3" a	10' 8" a	7' 2" a	10' 11" a	8' 7" a	5' 8" a	14' 3" a	10' 8" a	7' 2" a	10' 11" a	8' 7" a	5' 8" a
1400S162-68	50	17' 4" e	15' 0" e	12' 3" e	16' 10" i	13' 8" a	10' 2" a	17' 4" e	15' 0" e	12' 3" e	16' 10" i	13' 8" a	10' 2" a
1400S162-97	50	22' 9" i	19' 8" i	16' 1" e	22' 9" i	19' 8" i	16' 1" i	21' 8" i	19' 8" i	16' 1" e	22' 9" i	19' 8" i	16' 1" i
1400S200-54	50	14' 3" a	10' 8" a	7' 2" a	11' 3" a	8' 7" a	5' 8" a	14' 3" a	10' 8" a	7' 2" a	11' 3" a	8' 7" a	5' 8" a
1400S200-68	50	18' 9" e	16' 3" e	13' 3" e	17' 8" a	14' 4" a	10' 7" a	18' 9" e	16' 3" e	13' 3" e	17' 8" a	14' 4" a	10' 7" a
1400S200-97	50	24' 5" i	21' 1" e	17' 3" e	24' 5" i	21' 1" i	17' 3" a	22' 6" i	20' 6" i	17' 3" e	24' 5" i	21' 1" i	17' 3" a
1400S250-54	50	14' 3" a	10' 8" a	7' 2" a	11' 5" a	8' 7" a	5' 8" a	14' 3" a	10' 8" a	7' 2" a	11' 5" a	8' 7" a	5' 8" a
1400S250-68	50	19' 6" e	16' 10" e	13' 9" e	18' 0" a	14' 7" a	10' 9" a	19' 6" e	16' 10" e	13' 9" e	18' 0" a	14' 7" a	10' 9" a
1400S250-97	50	25' 3" i	21' 11" e	17' 10" e	25' 3" i	21' 11" i	17' 10" a	23' 4" i	21' 3" e	17' 10" e	25' 3" i	21' 11" i	17' 10" a
1400S300-54	50	14' 3" a	10' 8" a	7' 2" a	11' 5" a	8' 7" a	5' 8" a	14' 3" a	10' 8" a	7' 2" a	11' 5" a	8' 7" a	5' 8" a
1400S300-68	50	19' 11" e	17' 3" e	14' 1" e	18' 3" a	14' 9" a	10' 10" a	19' 11" e	17' 3" e	14' 1" e	18' 3" a	14' 9" a	10' 10" a
1400S300-97	50	25' 10" i	22' 5" e	18' 3" e	25' 10" i	22' 5" i	18' 3" a	24' 1" i	21' 11" e	18' 3" e	25' 10" i	22' 5" i	18' 3" a

Notes:

- 1 Web punchouts are not considered for shear and web crippling.
- 2 Deflection checks are computed using unbalanced loads for the two equal span conditions.
- 3 "e" indicates that the web stiffeners are required at the end support only.
- 4 "i" indicates that the web stiffeners are required at the interior support only.
- 5 "a" indicates that the web stiffeners are required at all supports.
- 6 Long spans utilizing shallow depth members may result in serviceability (annoying bounce) issues.
- 7 See additional floor joist notes on page 67.

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ALLOWABLE WEB CRIPPLING LOADS

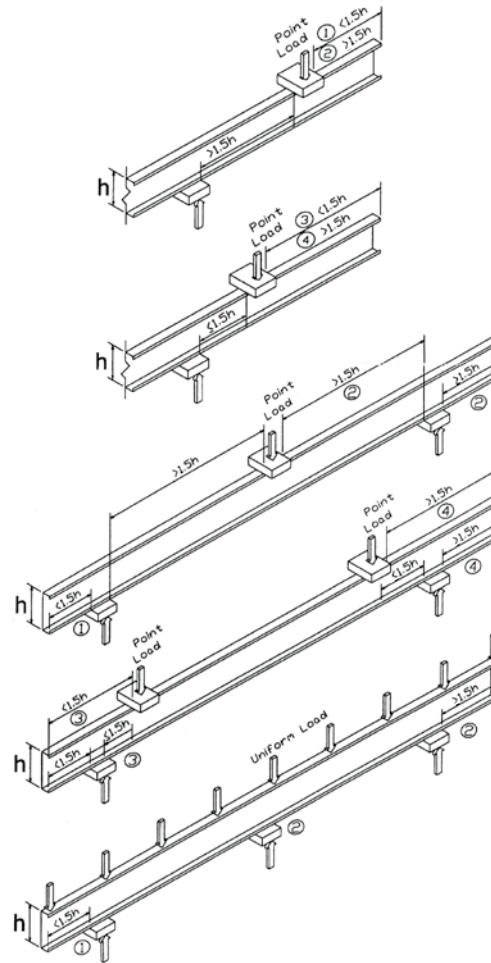
Overview

Web crippling

The tables that follow identify the loads that can be handled by the joist web under four different conditions without web stiffeners. Web crippling can occur at member ends or at interior points along the member. A point load is considered to be an interior point load if it is greater than $1\frac{1}{2}$ times the web depth (h) from the end. Web crippling also can occur either with point loading on one flange of the member or on both flanges. The following illustrations identify the four possible conditions.

General Notes:

- 1 Web crippling capacities have been calculated in conformance with AISI S100-2012.
- 2 The tabulated values are for a single member. For multiple members, multiply the tabulated values by the number of members in the assembly.
- 3 All web crippling capacities listed are for studs/members with stiffened flanges (S-Sections).
- 4 Listed allowable capacities are based on members 'fastened to supports', except back-to-back members under two-flange loading (conditions 3 and 4), for which data for 'fastened to supports' is unavailable in the AISI S100-2012.
- 5 Listed allowable capacities are for unpunched webs. Capacity reductions for end and interior one-flange loading (Conditions 1 and 2) near knockouts may be calculated using Section C3.4.2 of AISI specification.



Load Conditions:

- 1 End one flange loading
- 2 Interior one flange loading
- 3 End two flange loading
- 4 Interior two flange loading

ALLOWABLE WEB CRIPPLING LOADS

For single members (lb)

Member	Yield strength (ksi)	CONDITION 1: End One Flange Loading, Bearing Length (in)				CONDITION 2: Interior One Flange Loading, Bearing Length (in)				CONDITION 3: End Two Flange Loading, Bearing Length (in)				CONDITION 4: Interior Two Flange Loading, Bearing Length (in)			
		1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
250Sxxx - 33	33	173	271	285	336 ¹	330	453	472	535 ¹	150	201	209	235 ¹	411	519	535	591 ¹
250Sxxx - 43	33	287	443	466	547 ¹	580	780	810	913 ¹	267	351	364	407 ¹	720	892	918	1006 ¹
250Sxxx - 54	50	656	996	1046	1222 ¹	1350	1785	1850	2075 ¹	652	842	870	968 ¹	1730	2109	2165	2361 ¹
250Sxxx - 68	50	990	1480	1552	1805 ¹	2073	2694	2786	3106 ¹	1049	1333	1375	1521 ¹	2750	3302	3384	3669 ¹
350Sxxx - 33	33	166	260	274	323	324	445	463	526	131	175	182	205	384	484	499	551
350Sxxx - 43	33	278	428	451	528	571	768	798	900	240	315	326	365	680	842	866	949
350Sxxx - 54	50	637	967	1016	1186	1331	1761	1825	2046	594	768	794	883	1645	2005	2059	2245
350Sxxx - 68	50	965	1441	1512	1758	2047	2661	2752	3068	970	1232	1271	1406	2631	3159	3238	3510
362Sxxx - 33	33	165	259	273	322	323	444	462	525	129	173	179	202	381	480	495	547
362Sxxx - 43	33	277	427	449	526	570	767	796	898	236	311	322	360	675	836	860	943
362Sxxx - 54	50	634	963	1012	1182	1329	1758	1822	2043	588	760	785	874	1635	1994	2047	2232
362Sxxx - 68	50	962	1437	1507	1753	2044	2657	2748	3064	961	1221	1259	1393	2618	3143	3221	3492
362Sxxx - 97	50	1827	2659	2783	3212	3979	5036	5192	5738	2020	2501	2573	2821	5374	6313	6452	6936
400Sxxx - 33	33	163	256	269	317	322	442	460	522	122	164	170	192	372	469	483	534
400Sxxx - 43	33	274	422	444	520	567	763	792	893	227	299	309	346	662	819	843	924
400Sxxx - 54	50	628	954	1002	1170	1323	1750	1813	2034	569	735	760	846	1607	1960	2012	2194
400Sxxx - 68	50	953	1424	1494	1737	2036	2646	2737	3051	936	1188	1226	1356	2579	3097	3173	3441
400Sxxx - 97	50	1814	2640	2762	3189	3965	5018	5175	5718	1978	2448	2518	2761	5309	6236	6374	6853
550Sxxx - 33	33	155	243	256	302	315	432	450	511	100	134	139	157	339	428	441	487
550Sxxx - 43	33	262	405	426	499	556	749	778	877	195	256	265	297	614	760	782	858
550Sxxx - 54	50	606	920	966	1128	1302	1722	1784	2001	502	649	671	746	1508	1838	1887	2058
550Sxxx - 68	50	923	1380	1447	1683	2007	2608	2697	3007	844	1071	1105	1223	2441	2931	3003	3256
550Sxxx - 97	50	1766	2571	2691	3106	3917	4957	5112	5649	1826	2261	2326	2550	5079	5966	6097	6555
600Sxxx - 33	33	153	240	253	297	313	430	447	507	93	125	130	146	330	416	429	473
600Sxxx - 43	33	259	400	420	493	553	745	773	872	185	243	252	282	600	743	764	838
600Sxxx - 54	50	599	909	956	1116	1295	1713	1775	1991	482	623	644	716	1478	1802	1850	2017
600Sxxx - 68	50	914	1366	1433	1666	1998	2596	2685	2994	816	1036	1069	1183	2399	2881	2952	3201
600Sxxx - 97	50	1752	2551	2669	3081	3902	4939	5093	5628	1781	2205	2268	2487	5010	5885	6014	6466
800Sxxx - 43	33	247	381	401	470	542	730	757	854	150	197	204	228	548	678	698	765
800Sxxx - 54	50	575	872	917	1070	1272	1682	1743	1955	409	529	547	608	1370	1670	1714	1869
800Sxxx - 68	50	882	1318	1382	1607	1966	2555	2642	2946	716	910	939	1038	2250	2701	2768	3001
800Sxxx - 97	50	1702	2477	2592	2992	3850	4873	5025	5553	1618	2003	2060	2259	4761	5593	5716	6146
1000Sxxx - 54	50	553	840	882	1031	1251	1655	1715	1923	346	447	462	514	1275	1554	1595	1740
1000Sxxx - 68	50	854	1275	1338	1556	1938	2518	2604	2904	629	799	824	912	2119	2544	2607	2827
1000Sxxx - 97	50	1657	2413	2525	2914	3805	4816	4966	5488	1476	1827	1879	2060	4545	5338	5456	5866
1200Sxxx - 68	50	828	1237	1298	1509	1913	2486	2571	2866	551	699	721	798	2001	2402	2462	2669
1200Sxxx - 97	50	1618	2355	2464	2844	3764	4764	4912	5429	1348	1668	1716	1882	4350	5109	5222	5614
1400Sxxx - 68	50	805	1202	1261	1466	1890	2456	2540	2832	479	608	627	694	1892	2272	2329	2525
1400Sxxx - 97	50	1581	2302	2408	2780	3727	4717	4864	5375	1230	1523	1567	1718	4171	4900	5008	5384

¹Bearing length to web height ratio, N/h, exceeds limit of 1.0.

²Bearing length to thickness ratio, N/t, exceeds limit of 210.

For web crippling general notes, see page 93.

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ALLOWABLE WEB CRIPPLING LOADS

For built-up members (lbs)

Member	Yield strength (ksi)	CONDITION 1: End One Flange Loading, Bearing Length (in)				CONDITION 2: Interior One Flange Loading, Bearing Length (in)				CONDITION 3: End Two Flange Loading, Bearing Length (in)				CONDITION 4: Interior Two Flange Loading, Bearing Length (in)			
		1	3.5	4	6	1	3.5	4	6	1	3.5	4	6	1	3.5	4	6
250Sxxx - 33	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
250Sxxx - 43	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
250Sxxx - 54	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
250Sxxx - 68	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
350Sxxx - 33	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
350Sxxx - 43	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
350Sxxx - 54	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
350Sxxx - 68	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
362Sxxx - 33	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
362Sxxx - 43	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
362Sxxx - 54	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
362Sxxx - 68	50	2143	3098 ¹	3239 ¹	3732 ¹	3307	4147 ¹	4271 ¹	4705 ¹	1661	1995 ¹	2044 ¹	2216 ¹	3592	4314 ¹	4421 ¹	4793 ¹
362Sxxx - 97	50	4001	5630 ¹	5872 ¹	6713 ¹	6416	7849 ¹	8061 ¹	8801 ¹	3473	4080 ¹	4170 ¹	4483 ¹	7511	8823 ¹	9018 ¹	9695 ¹
400Sxxx - 33	33	388	591	621 ¹	726 ¹	545	721	747 ¹	838 ¹	221	279	287 ¹	317 ¹	469	592	610 ¹	673 ¹
400Sxxx - 43	33	635	950	997 ¹	1159 ¹	930	1206	1247 ¹	1390 ¹	403	499	513 ¹	563 ¹	870	1077	1108 ¹	1215 ¹
400Sxxx - 54	50	1433	2107	2207 ¹	2556 ¹	2155	2748	2836 ¹	3143 ¹	998	1216	1249 ¹	1361 ¹	2157	2630	2700 ¹	2944 ¹
400Sxxx - 68	50	2142	3097	3238 ¹	3731 ¹	3305	4145	4270 ¹	4703 ¹	1627	1953	2002 ¹	2170 ¹	3518	4224	4329 ¹	4694 ¹
400Sxxx - 97	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
550Sxxx - 33	33	387	590	620	724 ¹	544	720	746	836 ¹	192	242	250	276 ¹	407	514	530	585 ¹
550Sxxx - 43	33	634	948	995	1157 ¹	928	1204	1245	1388 ¹	361	447	459	504 ¹	778	964	991	1087 ¹
550Sxxx - 54	50	1431	2104	2204	2552 ¹	2152	2744	2832	3138 ¹	909	1108	1138	1241 ¹	1966	2397	2461	2683 ¹
550Sxxx - 68	50	2139	3092	3234	3726 ¹	3301	4139	4264	4697 ¹	1504	1806	1851	2007 ¹	3253	3906	4003	4340 ¹
550Sxxx - 97	50	3995	5622	5863	6703 ¹	6406	7837	8049	8788 ¹	3211	3771	3855	4144 ¹	6944	8157	8337	8963 ¹
600Sxxx - 33	33	387	589	619	724 ¹	543	719	745	836 ¹	183	231	238	263 ¹	389	491	506	559 ¹
600Sxxx - 43	33	634	948	995	1157 ¹	928	1204	1245	1387 ¹	348	431	443	486 ¹	751	930	956	1048 ¹
600Sxxx - 54	50	1430	2103	2203	2551 ¹	2151	2743	2831	3136 ¹	883	1076	1105	1205 ¹	1909	2327	2389	2605 ¹
600Sxxx - 68	50	2138	3091	3233	3724 ¹	3299	4138	4262	4695 ¹	1467	1762	1806	1958 ¹	3173	3811	3905	4234 ¹
600Sxxx - 97	50	3994	5620	5861	6701 ¹	6404	7834	8046	8785 ¹	3150	3700	3781	4065 ¹	6812	8001	8178	8792 ¹
800Sxxx - 43	33	633	946	993	1154	926	1202	1242	1384	302	374	384	421	651	806	829	909
800Sxxx - 54	50	1428	2100	2200	2546	2147	2738	2826	3131	787	959	985	1074	1701	2074	2129	2322
800Sxxx - 68	50	2135	3087	3228	3719	3295	4132	4256	4688	1335	1602	1642	1780	2886	3466	3552	3851
800Sxxx - 97	50	3989	5613	5854	6692	6396	7825	8036	8774	2929	3441	3517	3781	6335	7442	7606	8177
1000Sxxx - 54	50	1426	2097	2196	2543	2144	2735	2822	3127	702	856	879	959	1519	1852	1901	2073
1000Sxxx - 68	50	2132	3083	3224	3714	3290	4126	4250	4682	1218	1463	1499	1625	2635	3164	3242	3515
1000Sxxx - 97	50	3985	5607	5848	6685	6389	7816	8028	8764	2737	3215	3286	3533	5919	6953	7107	7640
1200Sxxx - 68	50	2130	3079	3220	3710	3287	4122	4245	4676	1114	1337	1370	1486	2408	2892	2964	3213
1200Sxxx - 97	50	3981	5601	5842	6678	6383	7808	8020	8756	2564	3012	3078	3309	5545	6514	6658	7158
1400Sxxx - 68	50	2127	3076	3216	3706	3283	4117	4241	4671	1018	1222	1252	1358	2201	2642	2708	2936
1400Sxxx - 97	50	3977	5596	5837	6672	6377	7801	8013	8748	2406	2826	2888	3105	5203	6111	6246	6715

¹Bearing length to web height ratio, N/h, exceeds limit of 1.0.²Bearing length to thickness ratio, N/t, exceeds limit of 210.

For web crippling general notes, see page 93.

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REFERENCE



Fastening Options

Connections can be made using a variety of fastening options. It is critical to specify the proper fastener to ensure the proper performance of the connections in cold-formed steel construction. The most common and widely used connection methods are screw connections and weld connections. Each type of connection method has various advantages and disadvantages. Therefore, we provide data for both types so you can choose your preferred connection method.



Self-Drilling Screws—externally threaded fasteners with the ability to drill their own hole and form, or “tap,” their own internal threads without deforming their thread and without breaking during installation. These screws are high-strength, one-piece fasteners and are used if the connection of multiple thicknesses of 33mil steel or thicker. One of the more

common self-drilling screws is a #10-16 x 5/8 HWH SD, which indicates a #10 diameter shaft, 16 threads per inch, 5/8 length, hex washer head self-drilling screw.

Fillet Welds—used to make lap joints, corner joints and T-joint connections. As the illustration suggests, the fillet weld is roughly triangular in cross-section, although its shape is not always a right triangle or an isosceles triangle. Weld metal is deposited in a corner formed by the fit-up of the two members and penetrates and fuses with the base metal to form the joint.

Flare Welds—used to join rounded or curved pieces.

- A Flare Bevel groove weld is commonly used to join a rounded or curved piece to a flat piece.
- A Flare V groove weld is commonly used to join two rounded or curved parts.

ALLOWABLE SCREW DESIGN VALUES (LBS)

Mils (Gauge)	Design thickness (in)	Fy (ksi)	Fu (ksi)	#8-18 HWH Screws Dia. = 0.16"		#10-16 HWH Screws Dia. = 0.19"		#12-14 HWH Screws Dia. = 0.21"		1/4"-14 HWH Screws Dia. = 0.24"	
				Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension
33 (20)	0.0346	33	45	162	71	177	84	186	93	199	106
43 (18)	0.0451	33	45	241	92	263	109	277	121	296	138
54 (16)	0.0566	33	45	333	115	370	137	389	152	416	173
		50	65	333	167	467	198	562	219	600	250
68 (14)	0.0713	33	45	n/a	n/a	467	173	550	191	588	218
		50	65	n/a	n/a	467	249	667	276	849	315
97 (12)	0.1017	33	45	n/a	n/a	467	246	667	272	867	311
		50	65	n/a	n/a	467	356	667	393	867	450
118 (10)	0.1242	33	45	n/a	n/a	n/a	n/a	667	333	867	380
		50	65	n/a	n/a	n/a	n/a	667	480	867	549

Screw Value Notes:

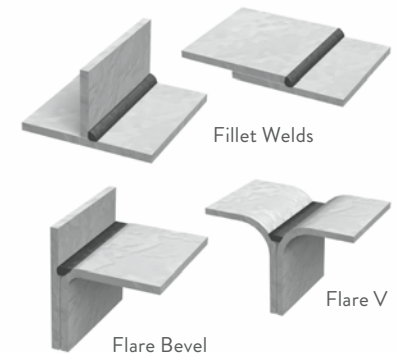
- 1 All values are calculated per the AISI-NASPEC, 2012.
- 2 Values are based on Buildex TEK2 HWH screw capacities. All screws must meet minimum criteria outlined.
- 3 Shear strength for #8, #10, #12, and 1/4" screws must be greater than or equal to 1000 lbs, 1400 lbs, 2000 lbs and 2600 lbs respectively.
- 4 Tension strength for #8, #10, #12, and 1/4" screws must be greater than or equal to 1545 lbs, 1936 lbs, 2778 lbs and 4060 lbs respectively.
- 5 The minimum head diameter for #8 screws is 1/4". The minimum head diameter for #10 and #12 screws are 3/8". The minimum head diameter for 1/4" screws is 1/2".
- 6 Allowable bearing and pullover for screws must be checked if unequal material thicknesses are used.

ALLOWABLE WELD VALUES (LBS)

Mils (Gauge)	Design thickness (in)	Fy (ksi)	Fu (ksi)	Weld (1 inch)	
				Fillet	Flare Groove
33 (20)	0.0346	33	45	—	—
43 (18)	0.0451	33	45	619	544
54 (16)	0.0566	33	45	822	682
		50	65	1188	985
68 (14)	0.0713	33	45	1082	859
		50	65	1563	1241
97 (12)	0.1017	33	45	1480	1226
		50	65	1480	1480
118 (10)	0.1242	33	45	1808	1497
		50	65	1808	1808

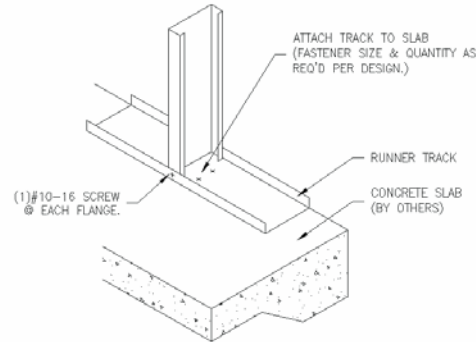
Weld Value Notes:

- 1 Weld strength is given in lbs/in.
- 2 All values are calculated per the AISI-NASPEC, 2012.
- 3 All values were based off of $F_{xx} \geq 70$ ksi and that $F_{xx} > F_u$.
- 4 Weld values listed are based on a minimum effective throat of 0.707 times the design thickness.
- 5 Values are based on the weld being loaded along its length (longitudinal).
- 6 Using multiples of lengths shown for longer welds will result in incorrect values.
- 7 Transversely loaded and longer weld values can be obtained from ClarkDietrich Engineering Services by calling 877-832-3206.

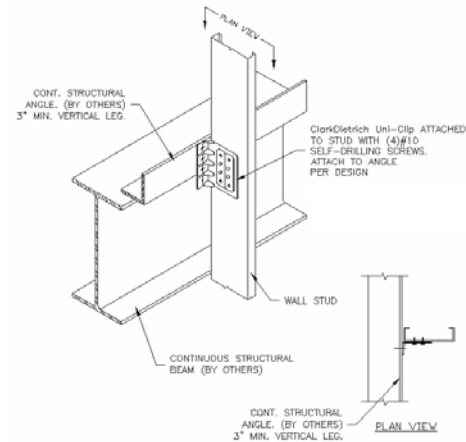


Rigid Connections

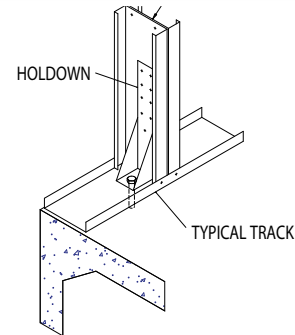
Stud to Track Connection



Rigid Bypass

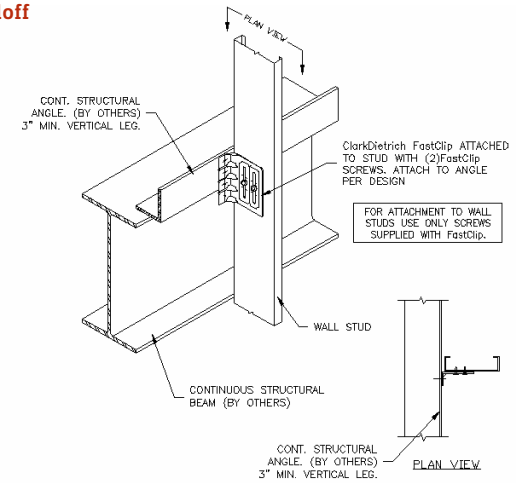


Hold Down Detail

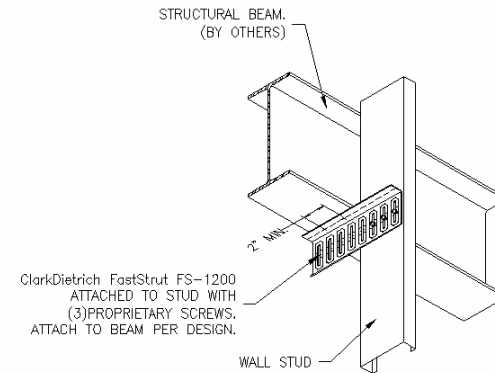


Bypass Deflection Connections

Minimal to Medium Standoff



Large Standoff



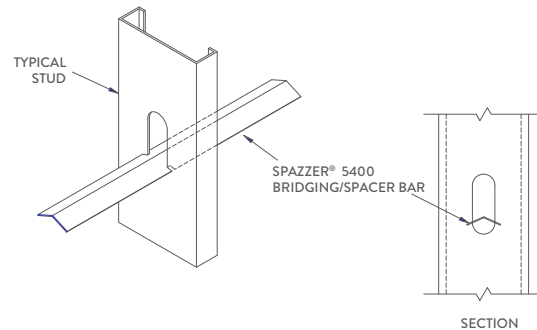
Details shown in this brochure are for example only. The engineer of record on the project is responsible for the design of the connection to the structure. Additional connection details can be found at clarkdietrich.com.

Typical Construction Details

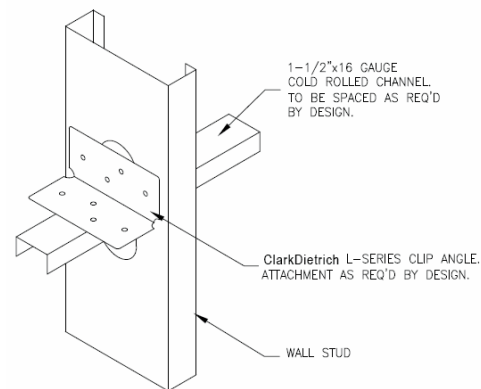
For a downloadable .pdf or .dwg version of all details, go to <http://cad.clarkdietrich.com>.

Bridging Details

Spazzer® 5400 Bridging

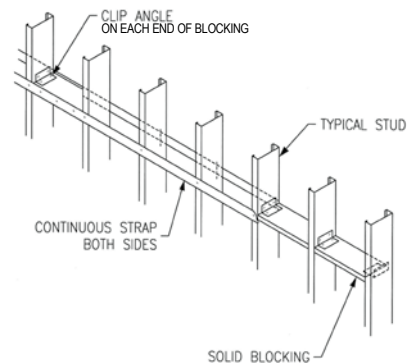


U-Channel Bridging Connection



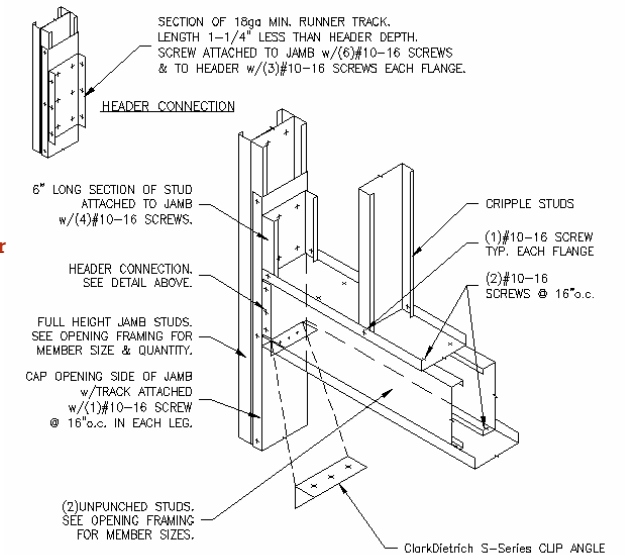
THIS DETAIL IS NOT SUITABLE FOR WALL STUDS DEEPER THAN 6"

Block and Strap Bridging

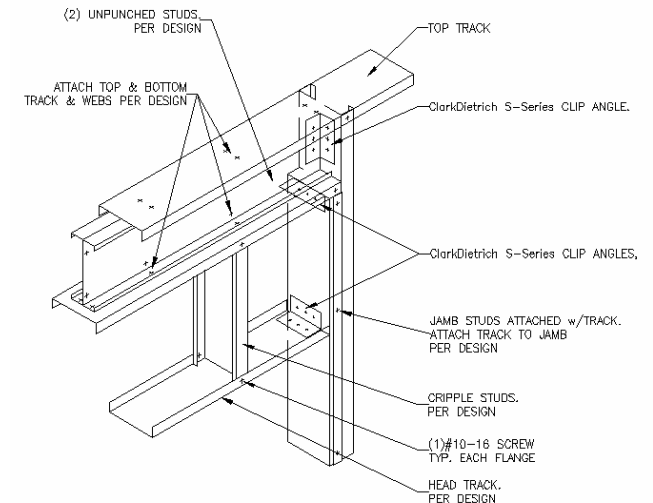


Header Details

Load-Bearing Boxed Header



Load-Bearing Back-to-Back Header

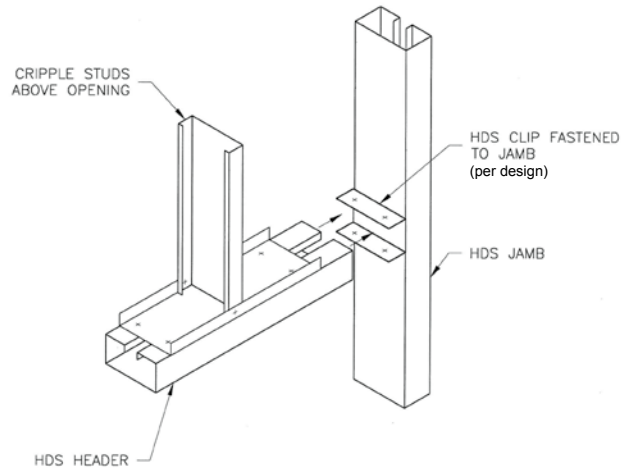


Details shown in this brochure are for example only. The engineer of record on the project is responsible for the design of the connection to the structure. Additional connection details can be found at clarkdietrich.com.

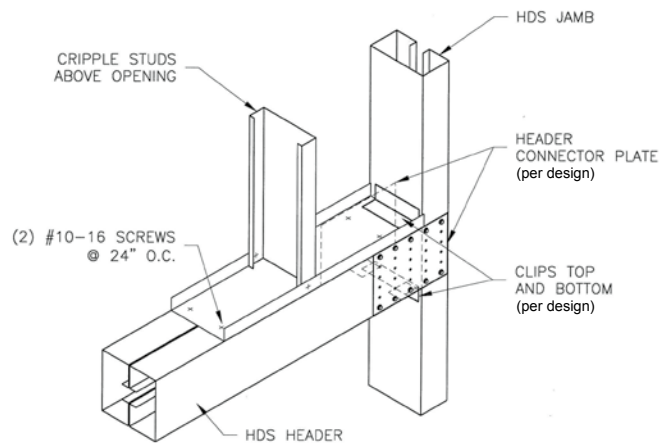
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Header Details

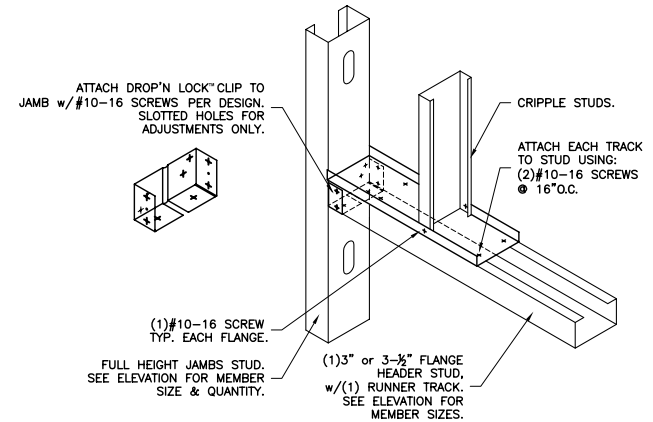
Curtain Wall HDS® Header & Jamb



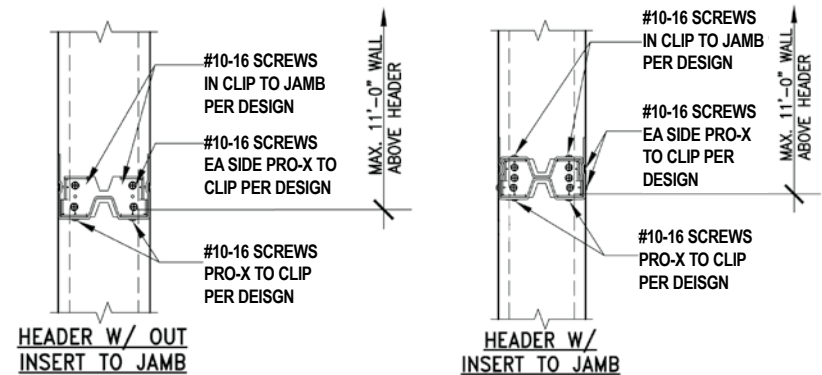
Load-Bearing HDS Header & Jamb



Curtain Wall RedHeader RO™ Header & Jamb



Curtain Wall ProX Header®



Details shown in this brochure are for example only. The engineer of record on the project is responsible for the design of the connection to the structure. Additional connection details can be found at clarkdietrich.com.

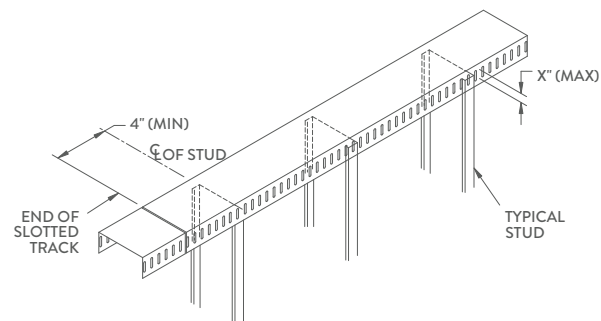
Complies with AISI S100-12 • IBC 2015

Typical Construction Details

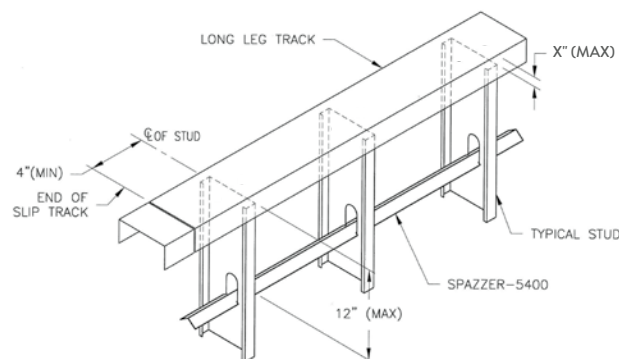
For a downloadable .pdf or .dwg version of all details, go to <http://cad.clarkdietrich.com>.

Head-of-Wall Deflection Typical Details

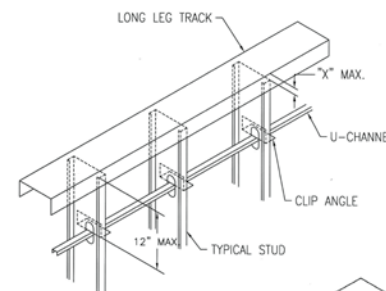
MaxTRAK® or SLP-TRK® Slotted Track



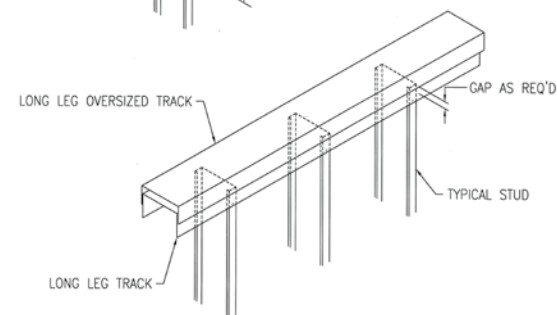
Long Leg Track with Spazzer® 5400



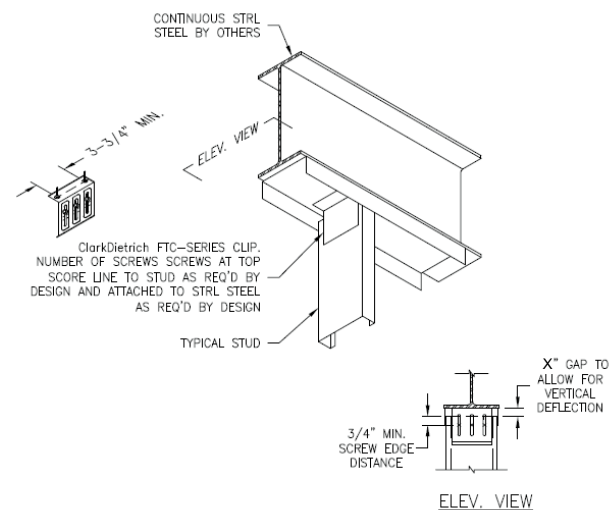
Long Leg Track with U-Channel



Double Track™



Long Leg Track with FastTop™ Clip



Details shown in this brochure are for example only. The engineer of record on the project is responsible for the design of the connection to the structure. Additional connection details can be found at clarkdietrich.com.



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Bristol, CT	Kapolei, HI	Vienna, OH	

ClarkDietrich Material Certification—Code Approvals and Performance

Structural framing standards

AISI S100-12 “North American Specification for the Design of Cold-Formed Steel Structural Members

ASTM C955 Load-bearing steel framing
ASTM C1007 Installation
ASTM A1003 Material specification for steel sheet

Protective coating standards

ASTM A653 Zinc-coated hot-dip process
ASTM A792 55% aluminum-zinc alloy-coated hot-dip process
ASTM A875 Zinc-5% aluminum alloy-coated hot-dip process
ASTM A924 Metallic-coated hot-dip process

Additional code approvals

SFIA (Steel Framing Industry Association)
Intertek CCRR 0206

ProSTUD® drywall framing standards

AISI S100 2012 “North American Specification for the Design of Cold-Formed Steel Structural Members”

ASTM American Society for Testing and Materials

A653 Zinc-coated hot-dip process
A1003 Material specification for steel sheet
C645 Standard specification for nonstructural steel framing
C754 Standard specification for installation of steel framing
C1002 Standard specification for steel self piercing tapping screw
E119 Standard test methods for fire tests
E72 Standard test methods of conducting strength tests
E90 Standard test method for sound transmission loss

UL® Underwriters Laboratories testing standard

UL 263 Fire Tests of Building Construction and Materials

Multiple UL® design listings for ProSTUD
Over 50 UL Designs; UL file number R26512

Additional code approvals

Intertek CCRR 0207

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Metal lath & accessories

ASTM C847 Metal lath
ASTM C841 Installation of interior lathing & furring
ASTM C1063 Installation of lathing & furring
ASTM A653 Zinc-coated hot-dip process
ASTM C1047 Accessories standards—control joints
ASTM A924 Metallic-coated hot-dip process
UUB790A APB type 1, grade D, style 2
CE 240.01 Furring (metal) lathing and plastering
EMLA 920 Guide specs for metal lathing & furring

Additional code approvals

Intertek CCRR 0204



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ClarkDietrich structural and nonstructural framing comply with the SFIA Code Compliance Program. ClarkDietrich is a member of SFIA.

Check the updated list of Certified Production Facilities at Architectural Testing's website at www.archtest.com.



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