



Expanding Your Solutions

Steel Framing and Accessories

ICC ESR-3016 | 2012 and 2015 IBC, IRC

Table of Contents

| | |
|---|-------|
| Introduction to CEMCO | 3 |
| Product Identification | 4-5 |
| LEED Certification and California's Proposition 65 Warning | 6 |
| General Product Information | 7-8 |
| Structural Section Properties for Studs and Tracks | 9-15 |
| Allowable Heights for Curtain Walls | 16-21 |
| Wall Bracing Options | 22 |
| Combined Axial and Lateral Load Tables | 23-70 |
| Floor Joist Bridging and Bracing Notes Floor Joist Span Table Notes | 71 |
| Floor Joist Span Tables | 72-78 |
| Web Crippling Notes | 79 |
| Web Crippling Load Table | 80 |
| Ceiling Span Tables | 81-82 |
| Header Loads Table | 83-85 |
| Section Properties and Ceiling Spans Tables for U-Channels | 86 |
| Section Properties and Ceiling Spans Tables for Hat Channels | 87 |
| SFIA Code Compliance Certification Program | 88 |

Introduction

CEMCO®

California Expanded Metal Products Co. Inc., commonly known as CEMCO, was founded in 1974. CEMCO is the leader in quality, service, and product development, always striving to deliver the cutting-edge solutions that save both time and money during the entire construction process. Our commitment to quality control and the use of mill-certified prime steel ensures stellar product performance long after the project is finished.

CEMCO manufactures all of our products in the USA in each of our four state-of-the-art facilities located in City of Industry, CA; Pittsburg, CA; Denver, CO; and Ft. Worth, TX.

CEMCO is one of the few manufacturers to produce all of our products from high quality mill-certified PRIME hot-dipped galvanized steel. Our products are manufactured to the stringent tolerances established by the American Iron and Steel Institute, and the most recent IBC, IRC, and CBC Building Codes.

We are proud to offer one of the broadest product lines available in the cold-formed steel-framing industry. Each of our products has been manufactured here in the USA, and typically qualifies for credits in the Leadership in Energy and Environmental Design program, commonly known as LEED. Our metal lath, plastering accessories, and water management products are manufactured to handle both interior and exterior applications. Like all CEMCO products, they're produced from high-quality, mill-certified hot-dipped galvanized PRIME steel to guarantee proper performance long after the finish coat is applied.

With our state-of-the-art facilities, CEMCO can handle any size construction project. We distribute products throughout the United States, Canada, Mexico, and the Pacific Rim. Our products are available only through building material dealers, who work closely with contractors on technical assistance, specifications and submittals.

All of our CEMCO literature, product data, and catalog information are located on our website at www.cemcosteel.com.

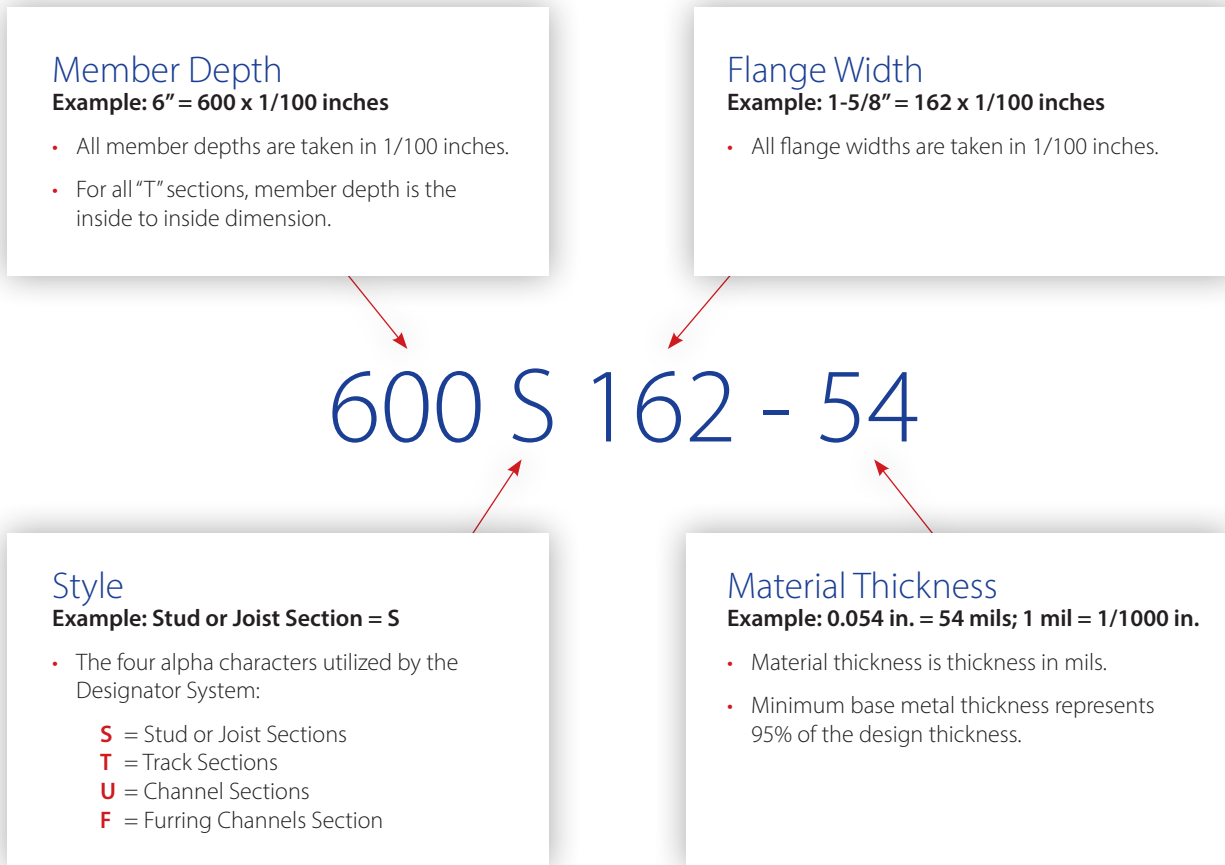
Disclaimer

All data, specifications, and details contained in this publication are intended as a general guide for using CEMCO cold-formed steel framing products and accessories. These products are not to be used in design or construction without an independent evaluation by a licensed and qualified engineer or architect to verify the suitability of a particular product for use in a specific application. CEMCO and its entities assume no liability for failure resulting from the use or misapplication of computations, detail drawings, and specifications contained herein. This publication contains the latest information available at the time of printing. CEMCO and its entities reserve the right to make changes or modifications to the materials of any of its products without prior notice or obligation. Contact CEMCO at 800-775-2362 or www.cemcosteel.com for the latest information on these or any other CEMCO products.

Product Identification

Introduction to CEMCO Nomenclature

CEMCO and other industry leaders have developed a four part identification code which identifies the size (both depth, and flange width), style, and material thickness of each member.



Note: For those sections where two different yield strengths (33 ksi and 50 ksi) are shown, the yield strength used in the design, if greater than 33 ksi, needs to be identified on the design and ordering of steel. (i.e. 600S162-54 (50 ksi))

C-Stud/Joist
S-Sections



Track
T-Sections



Channel
U-Sections



Furring Channel
F-Sections



Product Identification

Code Approvals

Products manufactured by CEMCO are recognized by the ICC Evaluation Services' ICC ES ESR-3016 and under the tolerances of a code compliance program. Code approvals include 2012/2015 IBC, 2013/2016 CBC, 2015 IRC.

Material Specifications

Products manufactured by CEMCO are formed from hot-dipped galvanized steel meeting or exceeding the following ASTM, AISI standards, UL, Intertek, and additional code approval agencies.

| Product Type | Material Specifications | Min. Yield | Min. Tensile | Min. Metallic Coating Designation |
|--|-------------------------------------|------------|--------------|---|
| Non-Structural ASTM C645 | ASTM A653, SS Grade 33 | 33 ksi | 45 ksi | G40 ¹ |
| | ASTM A1003, Grade 33 (NS33) | 33 ksi | 45 ksi | G40 ¹ , A40 ¹ , AZ50 ² , GF30 ³ , T1-25 ⁴ , T2-100 ⁴ , 60G/60G ⁵ |
| Structural Products ASTM C955 (CP60 Coatings) | ASTM A653, SS Grade 33 | 33 ksi | 45 ksi | G60 ¹ , A60 ¹ |
| | ASTM A653, SS GRADE 50 Class 1 | 50 ksi | 65 ksi | G60 ¹ , A60 ¹ |
| | ASTM A1003, Grade 50 Type H (ST50H) | 50 ksi | 65 ksi | G60 ¹ , A60 ¹ , AZ50 ² , GF30 ³ |

Notes:

1. A653 Standard for steel sheet, zinc coated (galvanized) or zinc-iron alloy (galvannealed) by the hot-dip process.
2. A792 Standard for steel sheet, 55% aluminum-zinc alloy-coated by the hot-dip process.
3. A875 Standard for steel sheet, zinc-5% aluminum coated by the hot-dip process.
4. A463 Standard for steel sheet, aluminum coated by the hot-dip process.
5. A879 Standard for steel sheet, zinc coated by the electrolytic process for application requiring designation of the coating mss on each surface.

CEMCO Steel framing products are manufactured according to the AISI specification for the Design of Cold-Formed Steel Structural Member, AISI S100-2012 AISI. The 2013 CBC is acceptable for use in fire and sound rated assemblies listed in the Code and Gypsum Association Fire Resistance Design Manual.

UL® testing Standards and UL® Certified Products and Follow-Up Service.

Intertek Fire Endurance Test Program.

- ASTM C955 (Structural Product)
- ASTM C1007 (Structural Installation)
- ASTM A924/A924M (Coating)
- ASTM A653/A653M (Steel)
- ASTM A1003/A1003M
- ASTM C645 (Non-Structural Product)
- ASTM C754 (Non-Structural Installation)

LEED Certification

LEED v4 for Building & Design Construction

- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

Recycled Content

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%

Proposition 65

California's Proposition 65 Warning

California's Safe Drinking Water and Toxic Enforcement Act of 1986 – commonly referred to as Proposition 65 ("Prop 65") (27 Cal. Code Reg. § 25600, et seq.) – has recently changed, requiring manufacturers to provide a warning based on its knowledge about the presence of one or more of the almost 900 listed chemicals which are known to the State of California to cause cancer and birth defects, or other reproductive harm. With a few exceptions, manufacturers operating in the state of California as well as those entities who distribute, import, package, and/or supply products into the State of California are now required provide a "clear and reasonable" warning to consumers that their products may contain one or more of these listed chemicals or compounds. The complete list is available at www.P65Warnings.ca.gov.

In compliance with the new requirements, we are notifying each of our customers that CEMCO products contain Nickel (metallic) and/or other chemicals listed which are known to the State of California to cause cancer and birth defects or other reproductive harm. Safety data sheets from our major suppliers are available from CEMCO on our website at www.cemcosteel.com.



| Thickness Table | | | | | |
|------------------------|-----------------------|------------------------|---------------------|-------------------|------------|
| Steel Thickness (mils) | Design Thickness (in) | Minimum Thickness (in) | Inside Corner Radii | Gauge No. | Color Code |
| 18 | 0.0188 | 0.0179 | 0.0843 | 25 | None |
| 30 | 0.0312 | 0.0296 | 0.0781 | 20-Non-Structural | Pink |
| 33 | 0.0346 | 0.0329 | 0.0764 | 20-Structural | White |
| 43 | 0.0451 | 0.0428 | 0.0712 | 18 | Yellow |
| 54 | 0.0566 | 0.0538 | 0.0849 | 16 | Green |
| 68 | 0.0713 | 0.0677 | 0.1069 | 14 | Orange |
| 97 | 0.1017 | 0.0966 | 0.1525 | 12 | Red |
| 118 | 0.1242 | 0.1180 | 0.1863 | 10 | Blue |

| Design Stiffening Lip Length | | |
|------------------------------|-------------------|-----------------------------------|
| Section | Flange Width (in) | Design Stiffening Lip Length (in) |
| S137 | 1-3/8 | 0.375 |
| S162 | 1-5/8 | 0.500 |
| S200 | 2 | 0.625 |
| S250 | 2-1/2 | 0.625 |
| S300 | 3 | 0.875 |
| S350 | 3-1/2 | 1 |

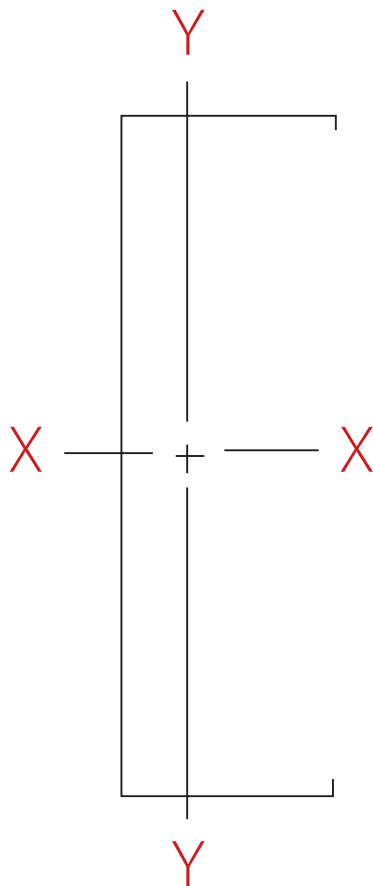
Notes:

1. Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on A2.4 of the AISI S100-2012.
2. The tables in this catalog are calculated based on the inside corner radii listed on this table.
3. The inside corner radius is the maximum of $3/32-t/2$, or 1.5t.

General Notes for All Tables

1. The values in this catalog are based on the 2012 edition of the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-12 as referenced by 2012/2015 International Building Code (IBC).
2. Where AISI S100 is referenced, it is the "North American Specification for the Design of Cold-Formed Steel Structural Members", S100-12.
3. The structural properties included in this catalog have been computed based on allowable strength design (ASD) method.
4. Distortional buckling calculations are based on the $K\Phi = 0$.
5. 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 Procedure 1 for serviceability determination has been used.
6. Various sections may be manufactured with yield strength of either 33 or 50 ksi. The yield strength used for calculations is indicated in the tables.
7. Conditions with loads that exceed the 10 psf limit for non-structural members require an approved CP60 coating.
8. When provided, factory punchouts will be located along the center-line of the webs of the members and will have a minimum center-to-center spacing of 24 inches. Punchouts for members greater than 2.5 inches deep are a maximum of 1.5 inches wide x 3.250 inches long. Members with depths of 2.5 inches and smaller are maximum of 3/4" wide x 2 inches long. Any configuration or combination of holes that fit within the punchout width and length limitations mentioned above shall be permitted; other punchout configurations and locations not in compliance with limitations listed above is permitted provided it is approved by a design professional.

Definitions of Structural Property Symbols



Gross Section Properties

| Symbol | Definition |
|--------|--|
| I_x | Moment of inertia of the cross section about the X-axis. |
| S_x | Section modulus about the X-axis. |
| R_x | Radius of gyration of cross section about the X-axis. |
| I_y | Moment of inertia of cross section about the Y-axis. |
| R_y | Radius of gyration of cross section about the Y-axis. |

Effective Section Properties

| Symbol | Definition |
|------------|--|
| I_{xe} | Effective moment of inertia about the X-axis. |
| S_{xe} | Effective section modulus about the X-axis. |
| M_{al} | Allowable moment based on local buckling. |
| M_{nd} | Nominal moment based on distortional buckling, assuming $K\Phi = 0$. |
| M_{ad} | Allowable moment based on distortional buckling, assuming $K\Phi = 0$. $M_{ad} = M_{nd}/\Omega$ ($\Omega = 1.67$ for members). |
| M_a | Allowable moment for track and channel members, based on local buckling only. |
| V_{ag} | Allowable strong axis shear away from punchout, calculated in accordance with AISI S100 section C3.2.1. |
| V_{anet} | Allowable strong axis shear at the punchout, calculated in accordance with AISI S100 C3.2.1. |

Torsional and Other Properties

| Symbol | Definition |
|---------|--|
| J | St. Venant torsional constant. The numbers shown in tables for J , have been multiplied by 1000. The actual values can be obtained by dividing the listed numbers by 1000. |
| C_w | Torsion warping constant. |
| X_o | Distance from the shear center to the centroid along the principal X-axis. |
| m | Distance from shear center to mid-plane of web. |
| R_o | Polar radius of gyration of cross section about the shear center. |
| β | $1 - (X_o/R_o)^2$ |
| L_u | Critical unbraced length for lateral-torsional buckling. Members are considered fully braced when unbraced length is less than L_u . |
| $K\Phi$ | Distortional buckling moment (M_{ad}) is calculated without the beneficial effect of Sheathing to rotational stiffness, $K\Phi = 0$. |

Web Depth-to-Thickness (h/t) Ratios^{2,3,4}

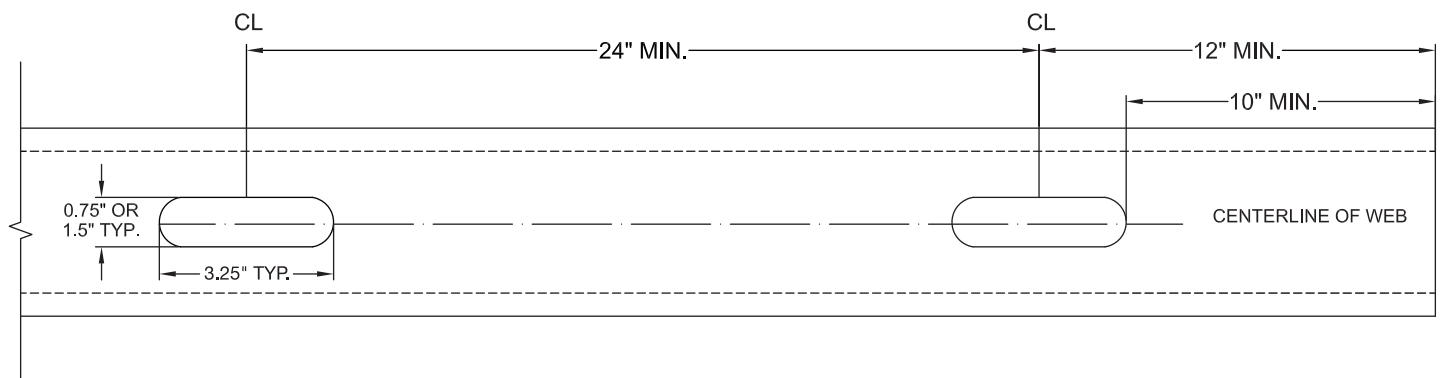
| Mil Thickness | 18 mil | | 30 mil | | 33 mil | | 43 mil | | 54 mil | | 68 mil | | 97 mil | | 118 mil | |
|-------------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-----|--------|-----|---------|-----|
| Design Thickness (in) | 0.0188 | | 0.0312 | | 0.0346 | | 0.0451 | | 0.0566 | | 0.0713 | | 0.1017 | | 0.1242 | |
| Inside Bend Radius (in) | 0.0844 | | 0.0782 | | 0.0765 | | 0.0712 | | 0.0849 | | 0.1069 | | 0.1526 | | 0.1863 | |
| Web Depth (in) | h (in) | h/t | h (in) | h/t | h (in) | h/t | h (in) | h/t | h (in) | h/t | h (in) | h/t | h (in) | h/t | h (in) | h/t |
| 1.625 | 1.419 | 75 | 1.406 | 45 | 1.403 | 41 | 1.392 | 31 | 1.342 | 24 | 1.269 | 18 | 1.116 | 11 | 1.004 | 8 |
| 2.5 | 2.294 | 122 | 2.281 | 73 | 2.278 | 66 | 2.267 | 50 | 2.217 | 39 | 2.144 | 30 | 1.991 | 20 | 1.879 | 15 |
| 3.5 | 3.294 | 175 | 3.281 | 105 | 3.278 | 95 | 3.267 | 72 | 3.217 | 57 | 3.144 | 44 | 2.991 | 29 | 2.879 | 23 |
| 3.625 | 3.419 | 182 | 3.406 | 109 | 3.403 | 98 | 3.392 | 75 | 3.342 | 59 | 3.269 | 46 | 3.116 | 31 | 3.004 | 24 |
| 4 | 3.794 | 202 ¹ | 3.781 | 121 | 3.778 | 109 | 3.767 | 84 | 3.717 | 66 | 3.644 | 51 | 3.491 | 34 | 3.379 | 27 |
| 5.5 | 5.294 | - | 5.281 | 169 | 5.278 | 153 | 5.267 | 117 | 5.217 | 92 | 5.144 | 72 | 4.991 | 49 | 4.879 | 39 |
| 6 | 5.794 | - | 5.781 | 185 | 5.778 | 167 | 5.767 | 128 | 5.717 | 101 | 5.644 | 79 | 5.491 | 54 | 5.379 | 43 |
| 8 | 7.794 | - | 7.781 | 249 ¹ | 7.778 | 225 ¹ | 7.767 | 172 | 7.717 | 136 | 7.644 | 107 | 7.491 | 74 | 7.379 | 59 |
| 10 | 9.794 | - | 9.781 | - | 9.778 | - | 9.767 | 217 ¹ | 9.717 | 172 | 9.644 | 135 | 9.491 | 93 | 9.379 | 76 |
| 12 | 11.794 | - | 11.781 | - | 11.778 | - | 11.767 | - | 11.717 | 207 ¹ | 11.644 | 163 | 11.491 | 113 | 11.379 | 92 |
| 14 | 13.794 | - | 13.781 | - | 13.778 | - | 13.767 | - | 13.717 | 242 ¹ | 13.644 | 191 | 13.491 | 133 | 13.379 | 108 |

Notes:

- h/t exceeds 200.
- h value used for h/t calculation is the flat width of the web. For (S) members, this is the out-to-out member size, minus twice the thickness, minus twice the inside bend radius.
- h/t values exceeding 260 are marked with a dash (-).
- h/t values in this table apply to S (studs and joists) members only, and do not apply to tracks and channels.

Section Property Table Notes

- Web depth for track sections equals nominal depth plus 2 times the design thickness plus bend radius.
- The centerline bend radius is based on inside corner radii shown in the Steel Thickness table found in this catalog.
- Effective properties include the strength increase from cold-work of forming per AISI S100 section A7.2 where applicable.
- Tabulated gross properties are based on full, unreduced section away from punchouts.
- Effective properties for all "S" sections based on punched sections. Track sections are considered unpunched.
- Allowable moment is the lesser of M_{al} and M_{ad} . Stud distortional buckling is based on an assumed $K\Phi = 0$.
- For deflection determination, use the effective moment of inertia.
- For sections with properties listed for both 33ksi and 50 ksi yield point, the required yield point should be specified in the design documents.
- Where effective properties are not listed for a section at 33 ksi or 50 ksi, web-to-thickness limits from the AISI S100 are exceeded, only gross properties are available.



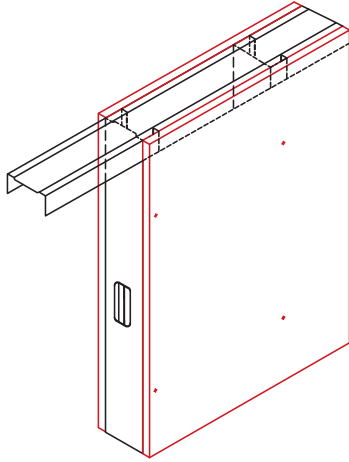
| Section | Fy (ksi) | Spacing (in) oc | 5 psf | | | 15 psf | | | 20 psf | | | 25 psf | | | 30 psf | | | 40 psf | | | | | | |
|------------|----------|--------------------|---------|---------|---------|-----------|----------|-----------|-----------|----------|----------|-----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| | | | L/120 | L/240 | L/360 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | L/240 | L/360 | L/600 | | | | |
| 550S162-33 | 33 | 12 | 33' 8" | 26' 9" | 23' 4" | 20' 11" e | 18' 3" | 15' 5" | 18' 4" e | 16' 7" e | 14' 0" | 16' 5" e | 15' 5" e | 13' 0" e | 15' 0" e | 14' 6" e | 12' 3" e | 13' 0" e | 13' 0" e | 11' 1" e | 11' 1" e | | | |
| | | 16 | 30' 7" | 24' 4" | 21' 3" | 18' 4" e | 16' 7" e | 14' 0" | 15' 11" e | 15' 1" e | 12' 8" e | 14' 3" e | 14' 0" e | 11' 9" e | 13' 0" e | 13' 0" e | 11' 1" e | 11' 3" e | 11' 3" e | 10' 1" e | 10' 1" e | | | |
| | | 24 | 26' 0" | 21' 3" | 18' 6" | 15' 0" e | 14' 6" e | 12' 3" e | 13' 0" e | 13' 0" e | 11' 1" e | 11' 7" e | 11' 7" e | 10' 4" e | 10' 7" e | 10' 7" e | 9' 8" e | 9' 2" e | 9' 2" e | 8' 10" e | 8' 10" e | | | |
| 550S200-33 | 33 | 12 | 35' 4" | 28' 1" | 24' 6" | 20' 10" e | 19' 2" | 16' 2" | 18' 0" e | 17' 5" e | 14' 8" | 16' 1" e | 16' 1" e | 13' 7" e | 14' 9" e | 14' 9" e | 12' 10" e | 12' 9" e | 12' 9" e | 11' 7" e | 11' 7" e | | | |
| | | 16 | 31' 3" | 25' 6" | 22' 3" | 18' 0" e | 17' 5" e | 14' 8" | 15' 7" e | 15' 7" e | 13' 4" e | 13' 11" e | 13' 11" e | 12' 4" e | 12' 9" e | 12' 9" e | 11' 7" e | 11' 0" e | 11' 0" e | 10' 7" e | 10' 7" e | | | |
| | | 24 | 25' 6" | 22' 3" | 19' 5" | 14' 9" e | 14' 9" e | 12' 10" e | 12' 9" e | 12' 9" e | 11' 7" e | 11' 5" e | 11' 5" e | 10' 9" e | 10' 5" e | 10' 5" e | 10' 2" e | 9' 0" e | 9' 0" e | 9' 0" e | 9' 0" e | | | |
| 550S162-43 | 33 | 12 | 36' 8" | 29' 1" | 25' 5" | 22' 9" | 19' 10" | 16' 9" | 20' 8" | 18' 1" | 15' 3" | 19' 2" | 16' 9" | 14' 2" | 18' 1" e | 15' 9" | 13' 4" | 15' 8" e | 14' 4" e | 12' 1" | 13' 7" e | 13' 0" e | 11' 0" e | 11' 0" e |
| | | 16 | 33' 4" | 26' 5" | 23' 1" | 20' 8" | 18' 1" | 15' 3" | 18' 9" | 16' 5" | 13' 10" | 17' 2" e | 15' 3" | 12' 10" | 15' 8" e | 14' 4" e | 12' 1" | 13' 7" e | 13' 0" e | 11' 0" e | 11' 0" e | | | |
| | | 24 | 29' 1" | 23' 1" | 20' 2" | 18' 1" e | 15' 9" | 13' 4" | 15' 8" e | 14' 4" e | 12' 1" | 14' 1" e | 13' 4" e | 11' 3" e | 12' 10" e | 12' 6" e | 10' 7" e | 11' 1" e | 11' 1" e | 11' 1" e | 9' 7" e | 9' 7" e | | |
| 550S200-43 | 33 | 12 | 38' 6" | 30' 7" | 26' 8" | 23' 10" | 20' 10" | 17' 7" | 21' 6" | 18' 11" | 16' 0" | 19' 3" | 17' 7" | 14' 10" | 17' 7" e | 16' 6" | 13' 11" | 15' 3" e | 15' 0" e | 12' 8" | 13' 2" e | 13' 2" e | 11' 6" e | 11' 6" e |
| | | 16 | 35' 0" | 27' 9" | 24' 3" | 21' 6" | 18' 11" | 16' 0" | 18' 8" | 17' 2" | 14' 6" | 16' 8" e | 16' 0" e | 13' 5" | 15' 3" e | 15' 0" e | 12' 8" | 13' 2" e | 13' 2" e | 11' 6" e | 11' 6" e | | | |
| | | 24 | 30' 6" | 24' 3" | 21' 2" | 17' 5" | 16' 6" | 13' 11" | 15' 3" e | 15' 0" e | 12' 8" | 13' 7" e | 13' 7" e | 11' 9" e | 12' 5" e | 12' 5" e | 11' 1" e | 10' 9" e | 10' 9" e | 10' 0" e | 10' 0" e | | | |
| 550S162-54 | 50 | 12 | 39' 4" | 31' 3" | 27' 3" | 24' 5" | 21' 4" | 18' 0" | 22' 2" | 19' 4" | 16' 4" | 20' 7" | 18' 0" | 15' 2" | 19' 4" | 16' 11" | 14' 3" | 17' 7" | 15' 4" | 14' 3" | 13' 0" | 16' 0" | 14' 0" | 11' 9" |
| | | 16 | 35' 9" | 28' 5" | 24' 9" | 22' 2" | 19' 4" | 16' 4" | 20' 2" | 17' 7" | 14' 10" | 18' 8" | 16' 4" | 13' 9" | 17' 7" | 15' 4" | 13' 0" | 16' 0" | 14' 0" | 12' 2" | 10' 3" | 10' 3" | | |
| | | 24 | 31' 3" | 24' 9" | 21' 8" | 19' 4" | 16' 11" | 14' 3" | 17' 7" | 15' 4" | 13' 0" | 16' 4" | 14' 3" | 12' 0" | 15' 4" | 13' 5" | 11' 4" | 14' 0" | 12' 2" | 10' 3" | 10' 3" | | | |
| 550S200-54 | 50 | 12 | 41' 4" | 32' 10" | 28' 8" | 25' 7" | 22' 5" | 18' 10" | 23' 3" | 20' 4" | 17' 2" | 21' 7" | 18' 10" | 15' 11" | 20' 4" | 17' 9" | 15' 0" | 18' 6" | 16' 1" | 13' 7" | 16' 9" | 14' 8" | 12' 4" | 12' 4" |
| | | 16 | 37' 7" | 29' 10" | 26' 0" | 23' 3" | 20' 4" | 17' 2" | 21' 2" | 18' 6" | 15' 7" | 19' 7" | 17' 2" | 14' 5" | 18' 6" | 16' 1" | 13' 7" | 16' 9" | 14' 8" | 12' 4" | 12' 4" | | | |
| | | 24 | 32' 10" | 26' 0" | 22' 9" | 20' 4" | 17' 9" | 15' 0" | 18' 6" | 16' 1" | 13' 7" | 17' 2" | 15' 0" | 12' 7" | 16' 1" | 14' 1" | 11' 10" | 14' 4" | 12' 9" | 10' 9" | 10' 9" | | | |
| 550S162-68 | 50 | 12 | 42' 2" | 33' 6" | 29' 3" | 26' 2" | 22' 10" | 19' 3" | 23' 9" | 20' 9" | 17' 6" | 22' 1" | 19' 3" | 16' 3" | 20' 9" | 18' 2" | 15' 3" | 18' 10" | 16' 6" | 13' 11" | 17' 2" | 15' 0" | 12' 7" | 12' 7" |
| | | 16 | 38' 4" | 30' 5" | 26' 7" | 23' 9" | 20' 9" | 17' 6" | 21' 7" | 18' 10" | 15' 11" | 20' 0" | 17' 6" | 14' 9" | 18' 10" | 16' 6" | 13' 11" | 17' 2" | 15' 0" | 12' 7" | 12' 7" | | | |
| | | 24 | 33' 6" | 26' 7" | 23' 3" | 20' 9" | 18' 2" | 15' 3" | 18' 10" | 16' 6" | 13' 11" | 17' 6" | 15' 3" | 12' 11" | 16' 6" | 14' 5" | 12' 2" | 15' 0" | 13' 1" | 11' 0" | 11' 0" | | | |
| 550S200-68 | 50 | 12 | 44' 4" | 35' 2" | 30' 9" | 27' 6" | 24' 0" | 20' 3" | 25' 0" | 21' 10" | 18' 5" | 23' 2" | 20' 3" | 17' 1" | 21' 10" | 19' 1" | 16' 1" | 19' 10" | 17' 4" | 14' 7" | 14' 7" | | | |
| | | 16 | 40' 4" | 32' 0" | 27' 11" | 25' 0" | 21' 10" | 18' 5" | 22' 8" | 19' 10" | 16' 8" | 21' 1" | 18' 5" | 15' 6" | 19' 10" | 17' 4" | 14' 7" | 18' 0" | 15' 9" | 13' 3" | 13' 3" | | | |
| | | 24 | 35' 2" | 27' 11" | 24' 5" | 21' 10" | 19' 1" | 16' 1" | 19' 10" | 17' 4" | 14' 7" | 18' 5" | 16' 1" | 13' 6" | 17' 4" | 15' 1" | 12' 9" | 15' 9" | 13' 9" | 11' 7" | 11' 7" | | | |
| 550S162-97 | 50 | 12 | 46' 8" | 37' 1" | 32' 5" | 28' 11" | 25' 3" | 21' 4" | 26' 4" | 23' 0" | 19' 5" | 24' 5" | 21' 4" | 18' 0" | 23' 0" | 20' 1" | 16' 11" | 20' 11" | 18' 3" | 15' 5" | 15' 5" | | | |
| | | 16 | 42' 5" | 33' 8" | 29' 5" | 26' 4" | 23' 0" | 19' 5" | 23' 11" | 20' 11" | 17' 7" | 22' 2" | 19' 5" | 16' 4" | 20' 11" | 18' 3" | 15' 5" | 19' 0" | 16' 7" | 14' 0" | 14' 0" | | | |
| | | 24 | 37' 1" | 29' 5" | 25' 8" | 23' 0" | 20' 1" | 16' 11" | 20' 11" | 18' 3" | 15' 5" | 19' 5" | 16' 11" | 14' 3" | 15' 11" | 13' 5" | 16' 7" | 14' 6" | 12' 3" | 12' 3" | | | | |
| 550S200-97 | 50 | 12 | 49' 3" | 39' 1" | 34' 2" | 30' 6" | 26' 8" | 22' 6" | 27' 8" | 24' 2" | 20' 5" | 25' 9" | 22' 6" | 18' 11" | 24' 2" | 21' 2" | 17' 10" | 22' 0" | 19' 2" | 16' 2" | 16' 2" | | | |
| | | 16 | 44' 9" | 35' 6" | 31' 0" | 27' 8" | 24' 2" | 20' 5" | 25' 2" | 22' 0" | 18' 6" | 23' 4" | 20' 5" | 17' 2" | 22' 0" | 19' 2" | 16' 2" | 20' 0" | 17' 5" | 14' 8" | 14' 8" | | | |
| | | 24 | 39' 1" | 31' 0" | 27' 1" | 24' 2" | 21' 2" | 17' 10" | 22' 0" | 19' 2" | 16' 2" | 20' 5" | 17' 10" | 15' 0" | 19' 2" | 16' 9" | 14' 2" | 17' 5" | 15' 3" | 12' 10" | 12' 10" | | | |

Notes:

- "e" Requires web stiffeners at end supports
- Strength Multiplier = 1.0
- Deflection Multiplier = 1.0 for 5 psf
- Deflection Multiplier = 0.7 for 15 psf and greater
- Studs considered unpunched for web crippling and shear
- 1 Span

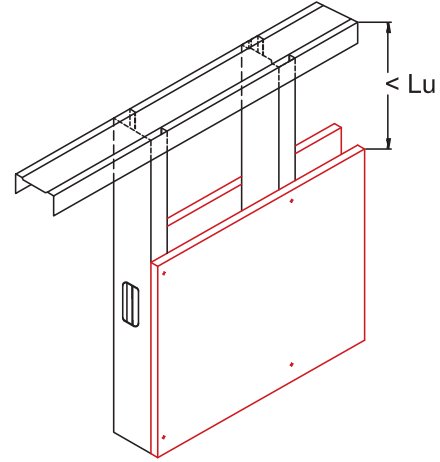
Non-Composite | Fully Braced

Gypsum Board Full Height
Both Sides



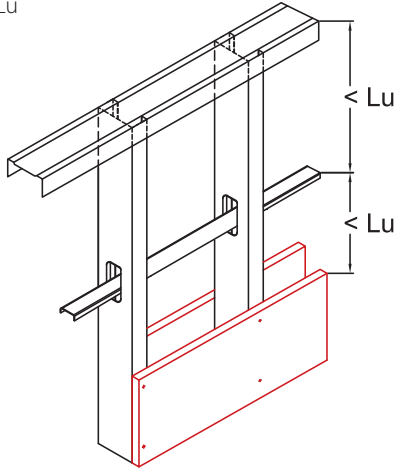
Non-Composite | Fully Braced

Unbraced Length is Less Than L_u



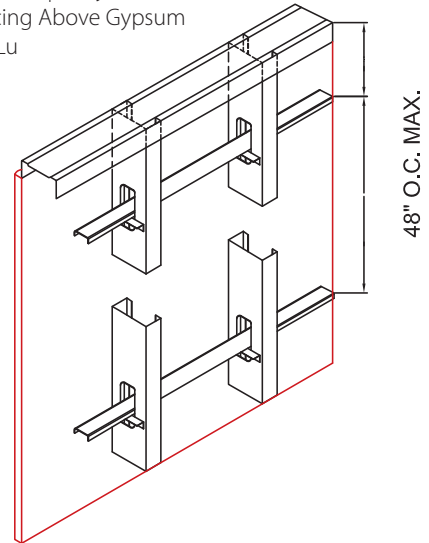
Non-Composite | Fully Braced

Bracing Spacing Above Gypsum
is Less Than L_u



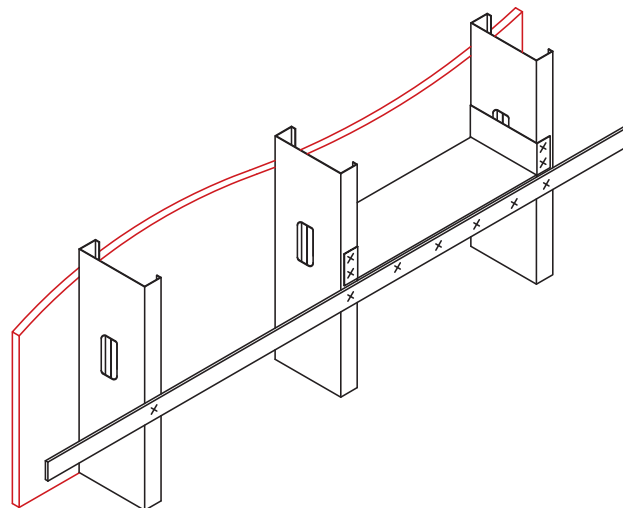
Non-Composite | Fully Braced

Bracing Spacing Above Gypsum
is Less Than L_u



Non-Composite | Fully Braced

Single Flat Strap with Blocking



Combined Loading Allowable Axial Load Table Notes

1. Allowable axial loads listed in kips (1 kip = 1000 pounds)
2. Allowable axial loads based on lateral and torsional bracing at a maximum of 4 feet on center.
3. Studs are assumed to be adequately braced at a maximum spacing of Lu to develop full allowable moment.
4. All tables are based on simple (single) spans.
5. Stud distortional based on an assumed $K\phi = 0$.

| Wall Ht. (ft) | Spacing (in) o.c. | 250S137-mils (Fy) | | | | | 250S162-mils (Fy) | | | | |
|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 0.95 ⁶ | 1.37 ⁶ | 1.90 ⁶ | 2.54 ⁶ | 3.99 ⁶ | 1.20 ⁶ | 1.70 ⁶ | 2.31 ⁶ | 3.00 ⁶ | 4.53 ⁶ |
| | 16 | 0.87 ⁶ | 1.30 ⁶ | 1.85 ⁶ | 2.48 ⁶ | 3.91 ⁶ | 1.11 ⁶ | 1.62 ⁶ | 2.25 ⁶ | 2.94 ⁶ | 4.45 ⁶ |
| | 24 | 0.73 ⁶ | 1.16 ⁶ | 1.74 ⁶ | 2.36 ⁶ | 3.76 ⁶ | 0.96 ⁶ | 1.47 ⁶ | 2.13 ⁶ | 2.81 ⁶ | 4.30 ⁶ |
| 9 | 12 | 0.80 ⁶ | 1.18 ⁶ | 1.66 ⁶ | 2.21 ⁶ | 3.39 ⁶ | 1.02 ⁶ | 1.47 ⁶ | 2.01 ⁶ | 2.61 ⁶ | 3.88 ⁶ |
| | 16 | 0.72 ⁵ | 1.10 ⁶ | 1.60 ⁶ | 2.14 ⁶ | 3.30 ⁶ | 0.92 ⁶ | 1.37 ⁶ | 1.94 ⁶ | 2.53 ⁶ | 3.80 ⁶ |
| | 24 | 0.57 ³ | 0.94 ⁴ | 1.47 ⁵ | 2.00 ⁶ | 3.14 ⁶ | 0.75 ⁴ | 1.20 ⁵ | 1.80 ⁶ | 2.39 ⁶ | 3.63 ⁶ |
| 10 | 12 | 0.67 ⁵ | 1.00 ⁶ | 1.44 ⁶ | 1.90 ⁶ | 2.87 ⁶ | 0.84 ⁶ | 1.24 ⁶ | 1.73 ⁶ | 2.25 ⁶ | 3.32 ⁶ |
| | 16 | 0.58 ⁴ | 0.91 ⁵ | 1.36 ⁶ | 1.82 ⁶ | 2.78 ⁶ | 0.74 ⁴ | 1.14 ⁵ | 1.65 ⁶ | 2.17 ⁶ | 3.23 ⁶ |
| | 24 | 0.42 ² | 0.74 ³ | 1.23 ⁴ | 1.68 ⁵ | 2.60 ⁶ | 0.56 ³ | 0.96 ³ | 1.51 ⁴ | 2.01 ⁵ | 3.05 ⁶ |
| 12 | 12 | 0.43 ³ | 0.69 ³ | 1.05 ⁴ | 1.39 ⁵ | 2.06 ⁶ | 0.56 ³ | 0.86 ³ | 1.27 ⁵ | 1.66 ⁶ | 2.43 ⁶ |
| | 16 | 0.34 ² | 0.59 ² | 0.97 ³ | 1.31 ⁴ | 1.96 ⁵ | 0.46 ² | 0.76 ⁴ | 1.18 ⁴ | 1.57 ⁵ | 2.33 ⁶ |
| | 24 | 0.18 ¹ | 0.43 ¹ | 0.82 ² | 1.15 ² | 1.78 ³ | 0.28 ¹ | 0.58 ² | 1.03 ² | 1.40 ³ | 2.14 ⁴ |
| 14 | 12 | 0.26 ¹ | 0.46 ² | 0.76 ³ | 1.01 ³ | 1.50 ⁴ | 0.35 ² | 0.59 ² | 0.93 ³ | 1.22 ⁴ | 1.79 ⁵ |
| | 16 | 0.17 ¹ | 0.37 ¹ | 0.68 ² | 0.93 ² | 1.40 ³ | 0.26 ¹ | 0.49 ² | 0.84 ² | 1.13 ³ | 1.69 ⁴ |
| | 24 | 0.02 | 0.21 ¹ | 0.54 ¹ | 0.78 ¹ | 1.23 ² | 0.09 ¹ | 0.32 ¹ | 0.69 ¹ | 0.97 ² | 1.51 ² |
| 16 | 12 | 0.15 ¹ | 0.30 ¹ | 0.55 ² | 0.74 ² | 1.11 ³ | 0.21 ¹ | 0.40 ¹ | 0.68 ² | 0.91 ² | 1.34 ⁴ |
| | 16 | 0.06 | 0.22 ¹ | 0.47 ¹ | 0.66 ¹ | 1.02 ² | 0.12 ¹ | 0.31 ¹ | 0.59 ¹ | 0.82 ² | 1.25 ² |
| | 24 | 0.00 | 0.07 | 0.34 ¹ | 0.52 ¹ | 0.86 ¹ | 0.00 | 0.15 | 0.45 ¹ | 0.67 ¹ | 1.08 ¹ |

| Wall Ht. (ft) | Spacing (in) o.c. | 350S162-mils (Fy) | | | | | 350S200-mils (Fy) | | | | |
|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 1.81 ⁶ | 2.56 ⁶ | 3.97 ⁶ | 5.08 ⁶ | 7.48 ⁶ | 2.19 ⁶ | 3.17 ⁶ | 4.95 ⁶ | 6.30 ⁶ | 9.01 ⁶ |
| | 16 | 1.74 ⁶ | 2.48 ⁶ | 3.90 ⁶ | 5.01 ⁶ | 7.41 ⁶ | 2.10 ⁶ | 3.09 ⁶ | 4.87 ⁶ | 6.23 ⁶ | 8.93 ⁶ |
| | 24 | 1.58 ⁶ | 2.32 ⁶ | 3.76 ⁶ | 4.87 ⁶ | 7.27 ⁶ | 1.94 ⁶ | 2.92 ⁶ | 4.71 ⁶ | 6.07 ⁶ | 8.77 ⁶ |
| 9 | 12 | 1.67 ⁶ | 2.38 ⁶ | 3.65 ⁶ | 4.67 ⁶ | 6.88 ⁶ | 2.03 ⁶ | 2.95 ⁶ | 4.55 ⁶ | 5.78 ⁶ | 8.27 ⁶ |
| | 16 | 1.57 ⁶ | 2.28 ⁶ | 3.56 ⁶ | 4.58 ⁶ | 6.79 ⁶ | 1.92 ⁶ | 2.84 ⁶ | 4.44 ⁶ | 5.68 ⁶ | 8.16 ⁶ |
| | 24 | 1.39 ⁶ | 2.09 ⁶ | 3.39 ⁶ | 4.41 ⁶ | 6.62 ⁶ | 1.72 ⁶ | 2.64 ⁶ | 4.24 ⁶ | 5.49 ⁶ | 7.96 ⁶ |
| 10 | 12 | 1.51 ⁶ | 2.18 ⁶ | 3.29 ⁶ | 4.23 ⁶ | 6.22 ⁶ | 1.85 ⁶ | 2.71 ⁶ | 4.09 ⁶ | 5.22 ⁶ | 7.46 ⁶ |
| | 16 | 1.40 ⁶ | 2.07 ⁶ | 3.19 ⁶ | 4.12 ⁶ | 6.12 ⁶ | 1.73 ⁶ | 2.58 ⁶ | 3.97 ⁶ | 5.10 ⁶ | 7.34 ⁶ |
| | 24 | 1.19 ⁶ | 1.84 ⁶ | 2.99 ⁶ | 3.92 ⁶ | 5.92 ⁶ | 1.49 ⁶ | 2.34 ⁶ | 3.74 ⁶ | 4.88 ⁶ | 7.10 ⁶ |
| 12 | 12 | 1.18 ⁶ | 1.75 ⁶ | 2.56 ⁶ | 3.31 ⁶ | 4.86 ⁶ | 1.47 ⁶ | 2.19 ⁶ | 3.16 ⁶ | 4.07 ⁶ | 5.83 ⁶ |
| | 16 | 1.04 ⁵ | 1.61 ⁶ | 2.44 ⁶ | 3.18 ⁶ | 4.73 ⁶ | 1.32 ⁶ | 2.03 ⁶ | 3.02 ⁶ | 3.93 ⁶ | 5.68 ⁶ |
| | 24 | 0.79 ³ | 1.34 ⁴ | 2.21 ⁶ | 2.94 ⁶ | 4.50 ⁶ | 1.03 ⁶ | 1.73 ⁶ | 2.75 ⁶ | 3.67 ⁶ | 5.39 ⁶ |
| 14 | 12 | 0.86 ⁴ | 1.33 ⁶ | 1.95 ⁶ | 2.54 ⁶ | 3.75 ⁶ | 1.09 ⁵ | 1.68 ⁶ | 2.41 ⁶ | 3.13 ⁶ | 4.50 ⁶ |
| | 16 | 0.71 ³ | 1.17 ⁴ | 1.82 ⁵ | 2.40 ⁶ | 3.61 ⁶ | 0.92 ⁴ | 1.51 ⁵ | 2.25 ⁶ | 2.98 ⁶ | 4.34 ⁶ |
| | 24 | 0.46 ² | 0.89 ³ | 1.58 ³ | 2.16 ⁴ | 3.36 ⁶ | 0.63 ² | 1.20 ³ | 1.98 ⁴ | 2.71 ⁵ | 4.04 ⁶ |
| 16 | 12 | 0.59 ³ | 0.96 ⁴ | 1.48 ⁵ | 1.95 ⁶ | 2.90 ⁶ | 0.76 ³ | 1.23 ⁴ | 1.83 ⁶ | 2.42 ⁶ | 3.50 ⁶ |
| | 16 | 0.45 ² | 0.80 ³ | 1.35 ³ | 1.81 ⁴ | 2.77 ⁶ | 0.60 ² | 1.06 ³ | 1.68 ⁴ | 2.27 ⁵ | 3.33 ⁶ |
| | 24 | 0.21 ¹ | 0.54 ² | 1.12 ² | 1.57 ³ | 2.52 ⁴ | 0.32 ¹ | 0.76 ² | 1.41 ³ | 1.93 ³ | 3.03 ⁵ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



| Wall | Spacing | 550S162-mils (Fy) | | | | | 550S200-mils (Fy) | | | | |
|----------|-----------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Ht. (ft) | (in) o.c. | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 2.39 ⁶ | 3.38 ⁶ | 5.63 ⁶ | 7.45 ⁶ | 11.32 ⁶ | 2.80 ⁶ | 4.19 ⁶ | 7.20 ⁶ | 9.62 ⁶ | 15.02 ⁶ |
| | 16 | 2.34 ⁶ | 3.33 ⁶ | 5.58 ⁶ | 7.41 ⁶ | 11.28 ⁶ | 2.74 ⁶ | 4.14 ⁶ | 7.14 ⁶ | 9.56 ⁶ | 14.97 ⁶ |
| | 24 | 2.24 ⁶ | 3.23 ⁶ | 5.49 ⁶ | 7.32 ⁶ | 11.19 ⁶ | 2.64 ⁶ | 4.03 ⁶ | 7.03 ⁶ | 9.46 ⁶ | 14.87 ⁶ |
| 9 | 12 | 2.32 ⁶ | 3.31 ⁶ | 5.55 ⁶ | 7.41 ⁶ | 11.27 ⁶ | 2.72 ⁶ | 4.09 ⁶ | 7.02 ⁶ | 9.39 ⁶ | 14.69 ⁶ |
| | 16 | 2.26 ⁶ | 3.24 ⁶ | 5.49 ⁶ | 7.35 ⁶ | 11.22 ⁶ | 2.66 ⁶ | 4.02 ⁶ | 6.94 ⁶ | 9.32 ⁶ | 14.62 ⁶ |
| | 24 | 2.13 ⁶ | 3.12 ⁶ | 5.38 ⁶ | 7.24 ⁶ | 11.10 ⁶ | 2.52 ⁶ | 3.88 ⁶ | 6.80 ⁶ | 9.19 ⁶ | 14.48 ⁶ |
| 10 | 12 | 2.25 ⁶ | 3.22 ⁶ | 5.41 ⁶ | 7.35 ⁶ | 11.22 ⁶ | 2.64 ⁶ | 3.97 ⁶ | 6.80 ⁶ | 9.12 ⁶ | 14.28 ⁶ |
| | 16 | 2.16 ⁶ | 3.14 ⁶ | 5.34 ⁶ | 7.27 ⁶ | 11.14 ⁶ | 2.55 ⁶ | 3.88 ⁶ | 6.71 ⁶ | 9.03 ⁶ | 14.19 ⁶ |
| | 24 | 2.00 ⁶ | 2.99 ⁶ | 5.19 ⁶ | 7.12 ⁶ | 10.99 ⁶ | 2.39 ⁶ | 3.71 ⁶ | 6.53 ⁶ | 8.86 ⁶ | 14.02 ⁶ |
| 12 | 12 | 2.05 ⁶ | 3.00 ⁶ | 5.04 ⁶ | 6.87 ⁶ | 11.04 ⁶ | 2.43 ⁶ | 3.68 ⁶ | 6.24 ⁶ | 8.42 ⁶ | 13.23 ⁶ |
| | 16 | 1.93 ⁶ | 2.89 ⁶ | 4.93 ⁶ | 6.76 ⁶ | 10.91 ⁶ | 2.31 ⁶ | 3.55 ⁶ | 6.11 ⁶ | 8.30 ⁶ | 13.10 ⁶ |
| | 24 | 1.71 ⁶ | 2.68 ⁶ | 4.71 ⁶ | 6.54 ⁶ | 10.66 ⁶ | 2.07 ⁶ | 3.30 ⁶ | 5.85 ⁶ | 8.05 ⁶ | 12.83 ⁶ |
| 14 | 12 | 1.81 ⁶ | 2.72 ⁶ | 4.54 ⁶ | 6.23 ⁶ | 10.00 ⁶ | 2.16 ⁶ | 3.31 ⁶ | 5.56 ⁶ | 7.56 ⁶ | 11.91 ⁶ |
| | 16 | 1.66 ⁶ | 2.57 ⁶ | 4.39 ⁶ | 6.07 ⁶ | 9.83 ⁶ | 2.01 ⁶ | 3.14 ⁶ | 5.38 ⁶ | 7.39 ⁶ | 11.72 ⁶ |
| | 24 | 1.37 ⁶ | 2.29 ⁶ | 4.11 ⁶ | 5.78 ⁶ | 9.49 ⁶ | 1.71 ⁶ | 2.81 ⁶ | 5.05 ⁶ | 7.06 ⁶ | 11.37 ⁶ |
| 16 | 12 | 1.53 ⁶ | 2.39 ⁶ | 3.95 ⁶ | 5.45 ⁶ | 8.76 ⁶ | 1.87 ⁶ | 2.90 ⁶ | 4.80 ⁶ | 6.59 ⁶ | 10.42 ⁶ |
| | 16 | 1.35 ⁶ | 2.20 ⁶ | 3.77 ⁶ | 5.26 ⁶ | 8.54 ⁶ | 1.68 ⁶ | 2.69 ⁶ | 4.59 ⁶ | 6.38 ⁶ | 10.19 ⁶ |
| | 24 | 1.02 ⁴ | 1.87 ⁶ | 3.43 ⁶ | 4.90 ⁶ | 8.12 ⁶ | 1.33 ⁵ | 2.30 ⁶ | 4.20 ⁶ | 5.98 ⁶ | 9.74 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 5psf Lateral Load

| Wall | Spacing | 1000S162-mils (Fy) | | | | | 1000S200-mils (Fy) | | | | | |
|------|---------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | | 3.28 ⁶ | 5.20 ⁶ | 6.95 ⁶ | 10.86 ⁶ | 13.76 ⁶ | 4.44 ⁶ | 7.60 ⁶ | 10.10 ⁶ | 15.78 ⁶ | 20.31 ⁶ |
| | 16 | | 3.25 ⁶ | 5.18 ⁶ | 6.93 ⁶ | 10.84 ⁶ | 13.70 ⁶ | 4.41 ⁶ | 7.57 ⁶ | 10.07 ⁶ | 15.75 ⁶ | 20.28 ⁶ |
| | 24 | | 3.20 ⁶ | 5.14 ⁶ | 6.89 ⁶ | 10.80 ⁶ | 13.58 ⁶ | 4.35 ⁶ | 7.52 ⁶ | 10.02 ⁶ | 15.70 ⁶ | 20.23 ⁶ |
| 9 | 12 | | 3.26 ⁶ | 5.19 ⁶ | 6.93 ⁶ | 10.84 ⁶ | 13.71 ⁶ | 4.41 ⁶ | 7.58 ⁶ | 10.08 ⁶ | 15.75 ⁶ | 20.29 ⁶ |
| | 16 | | 3.22 ⁶ | 5.16 ⁶ | 6.91 ⁶ | 10.82 ⁶ | 13.63 ⁶ | 4.38 ⁶ | 7.54 ⁶ | 10.05 ⁶ | 15.72 ⁶ | 20.26 ⁶ |
| | 24 | | 3.16 ⁶ | 5.10 ⁶ | 6.86 ⁶ | 10.77 ⁶ | 13.49 ⁶ | 4.30 ⁶ | 7.47 ⁶ | 9.98 ⁶ | 15.66 ⁶ | 20.19 ⁶ |
| 10 | 12 | | 3.23 ⁶ | 5.16 ⁶ | 6.92 ⁶ | 10.82 ⁶ | 13.65 ⁶ | 4.38 ⁶ | 7.55 ⁶ | 10.05 ⁶ | 15.73 ⁶ | 20.26 ⁶ |
| | 16 | | 3.19 ⁶ | 5.13 ⁶ | 6.88 ⁶ | 10.79 ⁶ | 13.56 ⁶ | 4.3 ⁶ | 7.51 ⁶ | 10.01 ⁶ | 15.69 ⁶ | 20.22 ⁶ |
| | 24 | | 3.12 ⁶ | 5.06 ⁶ | 6.82 ⁶ | 10.73 ⁶ | 13.38 ⁶ | 4.25 ⁶ | 7.42 ⁶ | 9.93 ⁶ | 15.61 ⁶ | 20.14 ⁶ |
| 12 | 12 | | 3.18 ⁶ | 5.12 ⁶ | 6.87 ⁶ | 10.78 ⁶ | 13.52 ⁶ | 4.32 ⁶ | 7.49 ⁶ | 9.99 ⁶ | 15.67 ⁶ | 20.20 ⁶ |
| | 16 | | 3.12 ⁶ | 5.07 ⁶ | 6.82 ⁶ | 10.73 ⁶ | 13.38 ⁶ | 4.26 ⁶ | 7.42 ⁶ | 9.93 ⁶ | 15.61 ⁶ | 20.14 ⁶ |
| | 24 | | 3.01 ⁶ | 4.97 ⁶ | 6.72 ⁶ | 10.64 ⁶ | 13.11 ⁶ | 4.13 ⁶ | 7.29 ⁶ | 9.81 ⁶ | 15.49 ⁶ | 20.02 ⁶ |
| 14 | 12 | | 3.11 ⁶ | 5.06 ⁶ | 6.81 ⁶ | 10.72 ⁶ | 13.35 ⁶ | 4.25 ⁶ | 7.41 ⁶ | 9.92 ⁶ | 15.59 ⁶ | 20.13 ⁶ |
| | 16 | | 3.04 ⁶ | 4.99 ⁶ | 6.74 ⁶ | 10.66 ⁶ | 13.16 ⁶ | 4.15 ⁶ | 7.32 ⁶ | 9.83 ⁶ | 15.51 ⁶ | 20.04 ⁶ |
| | 24 | | 2.88 ⁶ | 4.85 ⁶ | 6.61 ⁶ | 10.53 ⁶ | 12.78 ⁶ | 3.97 ⁶ | 7.14 ⁶ | 9.65 ⁶ | 15.33 ⁶ | 19.87 ⁶ |
| 16 | 12 | | 3.04 ⁶ | 4.98 ⁶ | 6.74 ⁶ | 10.65 ⁶ | 13.15 ⁶ | 4.15 ⁶ | 7.31 ⁶ | 9.82 ⁶ | 15.50 ⁶ | 20.03 ⁶ |
| | 16 | | 2.93 ⁶ | 4.89 ⁶ | 6.65 ⁶ | 10.57 ⁶ | 12.89 ⁶ | 4.03 ⁶ | 7.19 ⁶ | 9.70 ⁶ | 15.38 ⁶ | 19.91 ⁶ |
| | 24 | | 2.73 ⁶ | 4.71 ⁶ | 6.47 ⁶ | 10.39 ⁶ | 12.38 ⁶ | 3.79 ⁶ | 6.95 ⁶ | 9.46 ⁶ | 15.14 ⁶ | 19.67 ⁶ |

| Wall | Spacing | 1000S250-mils (Fy) | | | | 1000S300-mils (Fy) | | | | | |
|------|---------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | | 4.96 ⁶ | 8.27 ⁶ | 11.91 ⁶ | 19.91 ⁶ | 25.94 ⁶ | 10.04 ⁶ | 13.59 ⁶ | 23.53 ⁶ | 31.49 ⁶ |
| | 16 | | 4.93 ⁶ | 8.24 ⁶ | 11.88 ⁶ | 19.88 ⁶ | 25.91 ⁶ | 10.01 ⁶ | 13.56 ⁶ | 23.50 ⁶ | 31.46 ⁶ |
| | 24 | | 4.87 ⁶ | 8.18 ⁶ | 11.82 ⁶ | 19.82 ⁶ | 25.85 ⁶ | 9.95 ⁶ | 13.50 ⁶ | 23.44 ⁶ | 31.40 ⁶ |
| 9 | 12 | | 4.93 ⁶ | 8.24 ⁶ | 11.89 ⁶ | 19.88 ⁶ | 25.91 ⁶ | 9.99 ⁶ | 13.53 ⁶ | 23.43 ⁶ | 31.40 ⁶ |
| | 16 | | 4.89 ⁶ | 8.21 ⁶ | 11.85 ⁶ | 19.85 ⁶ | 25.88 ⁶ | 9.95 ⁶ | 13.49 ⁶ | 23.39 ⁶ | 31.37 ⁶ |
| | 24 | | 4.82 ⁶ | 8.13 ⁶ | 11.78 ⁶ | 19.77 ⁶ | 25.81 ⁶ | 9.87 ⁶ | 13.42 ⁶ | 23.31 ⁶ | 31.28 ⁶ |
| 10 | 12 | | 4.91 ⁶ | 8.22 ⁶ | 11.86 ⁶ | 19.85 ⁶ | 25.88 ⁶ | 9.93 ⁶ | 13.46 ⁶ | 23.31 ⁶ | 31.27 ⁶ |
| | 16 | | 4.86 ⁶ | 8.17 ⁶ | 11.81 ⁶ | 19.81 ⁶ | 25.84 ⁶ | 9.88 ⁶ | 13.41 ⁶ | 23.26 ⁶ | 31.23 ⁶ |
| | 24 | | 4.76 ⁶ | 8.08 ⁶ | 11.72 ⁶ | 19.72 ⁶ | 25.75 ⁶ | 9.79 ⁶ | 13.31 ⁶ | 23.16 ⁶ | 31.13 ⁶ |
| 12 | 12 | | 4.84 ⁶ | 8.15 ⁶ | 11.79 ⁶ | 19.79 ⁶ | 25.82 ⁶ | 9.78 ⁶ | 13.26 ⁶ | 22.98 ⁶ | 30.92 ⁶ |
| | 16 | | 4.76 ⁶ | 8.08 ⁶ | 11.72 ⁶ | 19.72 ⁶ | 25.75 ⁶ | 9.70 ⁶ | 13.19 ⁶ | 22.90 ⁶ | 30.85 ⁶ |
| | 24 | | 4.63 ⁶ | 7.95 ⁶ | 11.58 ⁶ | 19.58 ⁶ | 25.62 ⁶ | 9.56 ⁶ | 13.05 ⁶ | 22.75 ⁶ | 30.70 ⁶ |
| 14 | 12 | | 4.73 ⁶ | 8.03 ⁶ | 11.68 ⁶ | 19.70 ⁶ | 25.73 ⁶ | 9.56 ⁶ | 12.98 ⁶ | 22.51 ⁶ | 30.42 ⁶ |
| | 16 | | 4.63 ⁶ | 7.93 ⁶ | 11.58 ⁶ | 19.60 ⁶ | 25.63 ⁶ | 9.47 ⁶ | 12.88 ⁶ | 22.40 ⁶ | 30.35 ⁶ |
| | 24 | | 4.45 ⁶ | 7.75 ⁶ | 11.39 ⁶ | 19.41 ⁶ | 25.44 ⁶ | 9.27 ⁶ | 12.69 ⁶ | 22.19 ⁶ | 30.11 ⁶ |
| 16 | 12 | | 4.58 ⁶ | 7.80 ⁶ | 11.42 ⁶ | 19.37 ⁶ | 25.38 ⁶ | 9.28 ⁶ | 12.61 ⁶ | 21.88 ⁶ | 29.51 ⁶ |
| | 16 | | 4.46 ⁶ | 7.68 ⁶ | 11.29 ⁶ | 19.24 ⁶ | 25.25 ⁶ | 9.15 ⁶ | 12.49 ⁶ | 21.74 ⁶ | 29.37 ⁶ |
| | 24 | | 4.21 ⁶ | 7.44 ⁶ | 11.03 ⁶ | 18.97 ⁶ | 24.99 ⁶ | 8.90 ⁶ | 12.23 ⁶ | 21.46 ⁶ | 29.09 ⁶ |

| Wall | Spacing | 1000S350-mils (Fy) | | | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | | 11.29 ⁶ | 16.23 ⁶ | 26.70 ⁶ | 35.85 ⁶ |
| | 16 | | 11.26 ⁶ | 16.20 ⁶ | 26.67 ⁶ | 35.82 ⁶ |
| | 24 | | 11.20 ⁶ | 16.13 ⁶ | 26.60 ⁶ | 35.75 ⁶ |
| 9 | 12 | | 11.22 ⁶ | 16.15 ⁶ | 26.60 ⁶ | 35.69 ⁶ |
| | 16 | | 11.19 ⁶ | 16.11 ⁶ | 26.55 ⁶ | 35.65 ⁶ |
| | 24 | | 11.11 ⁶ | 16.03 ⁶ | 26.47 ⁶ | 35.57 ⁶ |
| 10 | 12 | | 11.15 ⁶ | 16.06 ⁶ | 26.48 ⁶ | 35.50 ⁶ |
| | 16 | | 11.10 ⁶ | 16.00 ⁶ | 26.42 ⁶ | 35.45 ⁶ |
| | 24 | | 11.00 ⁶ | 15.90 ⁶ | 26.32 ⁶ | 35.35 ⁶ |
| 12 | 12 | | 10.94 ⁶ | 15.81 ⁶ | 26.16 ⁶ | 34.99 ⁶ |
| | 16 | | 10.87 ⁶ | 15.73 ⁶ | 26.08 ⁶ | 34.91 ⁶ |
| | 24 | | 10.73 ⁶ | 15.58 ⁶ | 25.93 ⁶ | 34.76 ⁶ |
| 14 | 12 | | 10.68 ⁶ | 15.47 ⁶ | 25.73 ⁶ | 34.31 ⁶ |
| | 16 | | 10.58 ⁶ | 15.37 ⁶ | 25.62 ⁶ | 34.21 ⁶ |
| | 24 | | 10.39 ⁶ | 15.17 ⁶ | 25.40 ⁶ | 34.00 ⁶ |
| 16 | 12 | | 10.34 ⁶ | 15.06 ⁶ | 25.02 ⁶ | 33.50 ⁶ |
| | 16 | | 10.22 ⁶ | 14.92 ⁶ | 24.87 ⁶ | 33.35 ⁶ |
| | 24 | | 9.97 ⁶ | 14.65 ⁶ | 24.58 ⁶ | 33.06 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



| Wall | Spacing | 1200S162-mils (Fy) | | | 1200S200-mils (Fy) | | |
|------|---------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) |
| 8 | 12 | 4.95* ⁶ | 6.63 ⁶ | 10.38 ⁶ | 6.69* ⁶ | 9.66 ⁶ | 15.46 ⁶ |
| | 16 | 4.93* ⁶ | 6.61 ⁶ | 10.36 ⁶ | 6.67* ⁶ | 9.64 ⁶ | 15.44 ⁶ |
| | 24 | 4.90* ⁶ | 6.58 ⁶ | 10.33 ⁶ | 6.63* ⁶ | 9.60 ⁶ | 15.40 ⁶ |
| 9 | 12 | 4.94* ⁶ | 6.61 ⁶ | 10.36 ⁶ | 6.67* ⁶ | 9.64 ⁶ | 15.45 ⁶ |
| | 16 | 4.92* ⁶ | 6.59 ⁶ | 10.34 ⁶ | 6.65* ⁶ | 9.62 ⁶ | 15.42 ⁶ |
| | 24 | 4.87* ⁶ | 6.55 ⁶ | 10.31 ⁶ | 6.60* ⁶ | 9.56 ⁶ | 15.37 ⁶ |
| 10 | 12 | 4.92* ⁶ | 6.60 ⁶ | 10.35 ⁶ | 6.65* ⁶ | 9.62 ⁶ | 15.43 ⁶ |
| | 16 | 4.89* ⁶ | 6.57 ⁶ | 10.33 ⁶ | 6.62* ⁶ | 9.59 ⁶ | 15.39 ⁶ |
| | 24 | 4.84* ⁶ | 6.52 ⁶ | 10.28 ⁶ | 6.56* ⁶ | 9.53 ⁶ | 15.33 ⁶ |
| 12 | 12 | 4.89* ⁶ | 6.56 ⁶ | 10.32 ⁶ | 6.61* ⁶ | 9.58 ⁶ | 15.38 ⁶ |
| | 16 | 4.85* ⁶ | 6.52 ⁶ | 10.28 ⁶ | 6.57* ⁶ | 9.53 ⁶ | 15.33 ⁶ |
| | 24 | 4.77* ⁶ | 6.45 ⁶ | 10.21 ⁶ | 6.48* ⁶ | 9.43 ⁶ | 15.24 ⁶ |
| 14 | 12 | 4.84* ⁶ | 6.52 ⁶ | 10.27 ⁶ | 6.57* ⁶ | 9.52 ⁶ | 15.33 ⁶ |
| | 16 | 4.79* ⁶ | 6.47 ⁶ | 10.23 ⁶ | 6.51* ⁶ | 9.45 ⁶ | 15.26 ⁶ |
| | 24 | 4.68* ⁶ | 6.36 ⁶ | 10.13 ⁶ | 6.38* ⁶ | 9.32 ⁶ | 15.01 ⁶ |
| 16 | 12 | 4.79* ⁶ | 6.47 ⁶ | 10.23 ⁶ | 6.51* ⁶ | 9.45 ⁶ | 15.26 ⁶ |
| | 16 | 4.71* ⁶ | 6.40 ⁶ | 10.16 ⁶ | 6.43* ⁶ | 9.36 ⁶ | 15.17 ⁶ |
| | 24 | 4.57* ⁶ | 6.26 ⁶ | 10.03 ⁶ | 6.27* ⁶ | 9.18 ⁶ | 14.99 ⁶ |

| Wall | Spacing | 1200S250-mils (Fy) | | | 1200S300-mils (Fy) | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) |
| 8 | 12 | 7.70* ⁶ | 11.11 ⁶ | 19.49 ⁶ | 8.80* ⁶ | 12.26 ⁶ | 23.59 ⁶ |
| | 16 | 7.67* ⁶ | 11.09 ⁶ | 19.47 ⁶ | 8.78* ⁶ | 12.20 ⁶ | 23.56 ⁶ |
| | 24 | 7.63* ⁶ | 11.04 ⁶ | 19.42 ⁶ | 8.73* ⁶ | 12.15 ⁶ | 23.51 ⁶ |
| 9 | 12 | 7.68* ⁶ | 11.09 ⁶ | 19.47 ⁶ | 8.78* ⁶ | 12.21 ⁶ | 23.57 ⁶ |
| | 16 | 7.65* ⁶ | 11.06 ⁶ | 19.44 ⁶ | 8.75* ⁶ | 12.18 ⁶ | 23.54 ⁶ |
| | 24 | 7.60* ⁶ | 11.00 ⁶ | 19.38 ⁶ | 8.69* ⁶ | 12.12 ⁶ | 23.47 ⁶ |
| 10 | 12 | 7.70* ⁶ | 11.07 ⁶ | 19.45 ⁶ | 8.76* ⁶ | 12.18 ⁶ | 23.54 ⁶ |
| | 16 | 7.63* ⁶ | 11.03 ⁶ | 19.41 ⁶ | 8.72* ⁶ | 12.15 ⁶ | 23.50 ⁶ |
| | 24 | 7.60* ⁶ | 10.96 ⁶ | 19.33 ⁶ | 8.65* ⁶ | 12.07 ⁶ | 23.42 ⁶ |
| 12 | 12 | 7.62* ⁶ | 11.02 ⁶ | 19.39 ⁶ | 8.71* ⁶ | 12.13 ⁶ | 23.49 ⁶ |
| | 16 | 7.57* ⁶ | 10.97 ⁶ | 19.34 ⁶ | 8.65* ⁶ | 12.08 ⁶ | 23.42 ⁶ |
| | 24 | 7.47* ⁶ | 10.86 ⁶ | 19.23 ⁶ | 8.54* ⁶ | 11.97 ⁶ | 23.30 ⁶ |
| 14 | 12 | 7.56* ⁶ | 10.96 ⁶ | 19.33 ⁶ | 8.62* ⁶ | 12.07 ⁶ | 23.39 ⁶ |
| | 16 | 7.50* ⁶ | 10.88 ⁶ | 19.25 ⁶ | 8.54* ⁶ | 11.99 ⁶ | 23.30 ⁶ |
| | 24 | 7.37* ⁶ | 10.74 ⁶ | 19.09 ⁶ | 8.39* ⁶ | 11.94 ⁶ | 23.13 ⁶ |
| 16 | 12 | 7.50* ⁶ | 10.88 ⁶ | 19.24 ⁶ | 8.46* ⁶ | 11.99 ⁶ | 23.00 ⁶ |
| | 16 | 7.42* ⁶ | 10.79 ⁶ | 19.14 ⁶ | 8.36* ⁶ | 11.88 ⁶ | 22.88 ⁶ |
| | 24 | 7.25* ⁶ | 10.59 ⁶ | 18.93 ⁶ | 8.16* ⁶ | 11.68 ⁶ | 22.66 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0



| Wall | Spacing (in) o.c. | 362S200-mils (Fy) | | | | | | 362S250-mils (Fy) | | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | |
| 8 | 12 | 1.77 ⁶ | 2.79 ⁶ | 4.71 ⁶ | 6.22 ⁶ | 9.15 ⁶ | 11.26 ⁶ | 3.19 ⁶ | 5.32 ⁶ | 7.25 ⁶ | 10.62 ⁶ | 13.00 ⁶ | |
| | 16 | 1.55 ⁶ | 2.56 ⁶ | 4.49 ⁶ | 6.01 ⁶ | 8.95 ⁶ | 11.05 ⁶ | 2.95 ⁶ | 5.08 ⁶ | 7.01 ⁶ | 10.41 ⁶ | 12.79 ⁶ | |
| | 24 | 1.13 ⁶ | 2.13 ⁶ | 4.06 ⁶ | 5.58 ⁶ | 8.55 ⁶ | 10.64 ⁶ | 2.48 ⁶ | 4.62 ⁶ | 6.53 ⁶ | 9.99 ⁶ | 12.37 ⁶ | |
| 9 | 12 | 1.51 ⁶ | 2.47 ⁶ | 4.21 ⁶ | 5.60 ⁶ | 8.32 ⁶ | 10.24 ⁶ | 2.87 ⁶ | 4.84 ⁶ | 6.54 ⁶ | 9.69 ⁶ | 11.89 ⁶ | |
| | 16 | 1.25 ⁶ | 2.19 ⁶ | 3.94 ⁶ | 5.34 ⁶ | 8.07 ⁶ | 9.98 ⁶ | 2.57 ⁶ | 4.55 ⁶ | 6.24 ⁶ | 9.43 ⁶ | 11.62 ⁶ | |
| | 24 | 0.77 ⁵ | 1.68 ⁶ | 3.44 ⁶ | 4.84 ⁶ | 7.59 ⁶ | 9.49 ⁶ | 2.01 ⁵ | 4.00 ⁶ | 5.68 ⁶ | 8.92 ⁶ | 11.11 ⁶ | |
| 10 | 12 | 1.25 ⁶ | 2.13 ⁶ | 3.69 ⁶ | 4.95 ⁶ | 7.44 ⁶ | 9.17 ⁶ | 2.51 ⁶ | 4.33 ⁶ | 5.79 ⁶ | 8.71 ⁶ | 10.71 ⁶ | |
| | 16 | 0.95 ⁶ | 1.82 ⁶ | 3.38 ⁶ | 4.65 ⁶ | 7.15 ⁶ | 8.87 ⁶ | 2.17 ⁶ | 3.99 ⁶ | 5.45 ⁶ | 8.40 ⁶ | 10.39 ⁶ | |
| | 24 | 0.42 ⁴ | 1.25 ⁵ | 2.83 ⁶ | 4.09 ⁶ | 6.60 ⁶ | 8.29 ⁶ | 1.54 ⁴ | 3.37 ⁵ | 4.82 ⁵ | 7.82 ⁶ | 9.80 ⁶ | |
| 12 | 12 | 0.74 ⁴ | 1.46 ⁶ | 2.65 ⁶ | 3.66 ⁶ | 5.66 ⁶ | 7.00 ⁶ | 1.77 ⁴ | 3.17 ⁶ | 4.32 ⁶ | 6.72 ⁶ | 8.31 ⁶ | |
| | 16 | 0.41 ³ | 1.11 ⁴ | 2.32 ⁵ | 3.32 ⁶ | 5.32 ⁶ | 6.65 ⁶ | 1.37 ³ | 2.79 ⁴ | 3.93 ³ | 6.35 ⁶ | 7.93 ⁶ | |
| | 24 | 0.00 | 0.49 ³ | 1.73 ³ | 2.72 ⁴ | 4.72 ⁶ | 6.01 ⁶ | 0.67 ² | 2.12 ³ | 3.25 ³ | 5.69 ⁵ | 7.25 ⁶ | |
| 14 | 12 | 0.32 ² | 0.90 ³ | 1.82 ⁴ | 2.61 ⁵ | 4.19 ⁶ | 5.20 ⁶ | 1.12 ³ | 2.20 ³ | 3.11 ⁴ | 5.03 ⁶ | 6.27 ⁶ | |
| | 16 | 0.00 | 0.54 ² | 1.49 ³ | 2.28 ⁴ | 3.85 ⁵ | 4.84 ⁴ | 0.71 ² | 1.82 ² | 2.72 ³ | 4.66 ⁴ | 5.88 ⁵ | |
| | 24 | 0.00 | 0.00 | 0.92 ² | 1.69 ² | 3.24 ³ | 4.20 ³ | 0.01 ¹ | 1.17 ¹ | 2.05 ² | 3.99 ³ | 5.19 ³ | |
| 16 | 12 | 0.01 ¹ | 0.46 ² | 1.22 ³ | 1.85 ³ | 3.10 ⁵ | 3.89 ⁴ | 0.61 ² | 1.49 ² | 2.22 ³ | 3.77 ⁴ | 4.75 ⁵ | |
| | 16 | 0.00 | 0.12 ¹ | 0.91 ² | 1.53 ² | 2.77 ³ | 3.54 ³ | 0.22 ¹ | 1.14 ¹ | 1.85 ² | 3.41 ³ | 4.37 ³ | |
| | 24 | 0.00 | 0.00 | 0.38 ¹ | 0.97 ¹ | 2.20 ² | 2.93 ² | 0.00 ¹ | 0.53 ¹ | 1.21 ¹ | 2.77 ² | 3.70 ² | |

| Wall | Spacing (in) o.c. | 362S300-mils (Fy) | | | | 362S350-mils (Fy) | | | |
|------|----------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 6.40 ⁶ | 8.66 ⁶ | 12.84 ⁶ | 15.69 ⁶ | 7.30 ⁶ | 10.52 ⁶ | 15.55 ⁶ | 18.96 ⁶ |
| | 16 | 6.15 ⁶ | 8.40 ⁶ | 12.59 ⁶ | 15.46 ⁶ | 7.05 ⁶ | 10.24 ⁶ | 15.26 ⁶ | 18.71 ⁶ |
| | 24 | 5.68 ⁶ | 7.89 ⁶ | 12.11 ⁶ | 15.01 ⁶ | 6.55 ⁶ | 9.70 ⁶ | 14.72 ⁶ | 18.23 ⁶ |
| 9 | 12 | 5.86 ⁶ | 7.97 ⁶ | 11.71 ⁶ | 14.36 ⁶ | 6.69 ⁶ | 9.62 ⁶ | 14.16 ⁶ | 17.35 ⁶ |
| | 16 | 5.56 ⁶ | 7.64 ⁶ | 11.40 ⁶ | 14.08 ⁶ | 6.38 ⁶ | 9.28 ⁶ | 13.82 ⁶ | 17.04 ⁶ |
| | 24 | 4.98 ⁶ | 7.03 ⁶ | 10.81 ⁶ | 13.53 ⁶ | 5.78 ⁶ | 8.62 ⁶ | 13.15 ⁶ | 16.44 ⁶ |
| 10 | 12 | 5.28 ⁶ | 7.13 ⁶ | 10.52 ⁶ | 12.96 ⁶ | 6.04 ⁶ | 8.67 ⁶ | 12.72 ⁶ | 15.67 ⁶ |
| | 16 | 4.92 ⁶ | 6.75 ⁶ | 10.16 ⁶ | 12.62 ⁶ | 5.67 ⁶ | 8.26 ⁶ | 12.31 ⁶ | 15.30 ⁶ |
| | 24 | 4.26 ⁶ | 6.05 ⁶ | 9.48 ⁶ | 11.98 ⁶ | 4.99 ⁶ | 7.51 ⁶ | 11.54 ⁶ | 14.60 ⁶ |
| 12 | 12 | 4.01 ⁶ | 5.36 ⁶ | 8.13 ⁶ | 10.13 ⁶ | 4.69 ⁶ | 6.62 ⁶ | 9.85 ⁶ | 12.29 ⁶ |
| | 16 | 3.59 ⁶ | 4.93 ⁶ | 7.71 ⁶ | 9.72 ⁶ | 4.24 ⁵ | 6.15 ⁶ | 9.37 ⁶ | 11.84 ⁶ |
| | 24 | 2.85 ⁶ | 4.17 ⁴ | 6.94 ⁶ | 8.98 ⁶ | 3.46 ³ | 5.31 ⁵ | 8.48 ⁶ | 11.01 ⁶ |
| 14 | 12 | 0.85 ⁴ | 3.89 ⁵ | 6.09 ⁶ | 7.68 ⁶ | 3.41 ⁴ | 4.82 ⁶ | 7.36 ⁶ | 9.31 ⁶ |
| | 16 | 0.74 ³ | 3.46 ⁴ | 5.65 ⁵ | 7.26 ⁶ | 2.96 ³ | 4.35 ⁴ | 6.86 ⁶ | 8.84 ⁶ |
| | 24 | 0.55 ² | 2.70 ² | 4.88 ³ | 6.49 ⁴ | 2.18 ² | 3.53 ³ | 5.98 ⁴ | 8.00 ⁵ |
| 16 | 12 | 0.60 | 2.80 ³ | 4.57 ⁵ | 5.86 ⁵ | 2.44 ³ | 3.51 ⁴ | 5.52 ⁵ | 7.11 ⁶ |
| | 16 | 0.50 | 2.39 ² | 4.15 ³ | 5.44 ⁴ | 2.00 ² | 3.06 ³ | 5.04 ⁴ | 6.65 ⁵ |
| | 24 | 0.30 | 1.68 ¹ | 3.40 ² | 4.70 ² | 1.26 ¹ | 2.29 ² | 4.20 ² | 5.83 ³ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports

Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 15psf Lateral Load



| Wall | Spacing (in) o.c. | 550S162-mils (Fy) | | | | | 550S200-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 2.08 ⁶ | 3.09 ⁶ | 5.36 ⁶ | 7.19 ⁶ | 11.06 ⁶ | 2.48 ⁶ | 3.86 ⁶ | 6.87 ⁶ | 9.31 ⁶ | 14.71 ⁶ |
| | 16 | 1.93 ⁶ | 2.95 ⁶ | 5.22 ⁶ | 7.06 ⁶ | 10.93 ⁶ | 2.33 ⁶ | 3.70 ⁶ | 6.70 ⁶ | 9.15 ⁶ | 14.56 ⁶ |
| | 24 | 1.64 ⁶ | 2.68 ⁶ | 4.96 ⁶ | 6.80 ⁶ | 10.67 ⁶ | 2.02 ⁶ | 3.38 ⁶ | 6.38 ⁶ | 8.85 ⁶ | 14.25 ⁶ |
| 9 | 12 | 1.94 ⁶ | 2.94 ⁶ | 5.20 ⁶ | 7.07 ⁶ | 10.93 ⁶ | 2.32 ⁶ | 3.67 ⁶ | 6.59 ⁶ | 8.99 ⁶ | 14.28 ⁶ |
| | 16 | 1.75 ⁶ | 2.77 ⁶ | 5.03 ⁶ | 6.90 ⁶ | 10.76 ⁶ | 2.13 ⁶ | 3.46 ⁶ | 6.38 ⁶ | 8.79 ⁶ | 14.08 ⁶ |
| | 24 | 1.38 ⁶ | 2.42 ⁶ | 4.69 ⁶ | 6.56 ⁶ | 10.42 ⁶ | 1.75 ⁶ | 3.06 ⁶ | 5.97 ⁶ | 8.40 ⁶ | 13.68 ⁶ |
| 10 | 12 | 1.77 ⁶ | 2.77 ⁶ | 4.97 ⁶ | 6.90 ⁶ | 10.77 ⁶ | 2.15 ⁶ | 3.45 ⁶ | 6.26 ⁶ | 8.61 ⁶ | 13.76 ⁶ |
| | 16 | 1.54 ⁶ | 2.56 ⁶ | 4.76 ⁶ | 6.69 ⁶ | 10.55 ⁶ | 1.91 ⁶ | 3.20 ⁶ | 6.01 ⁶ | 8.37 ⁶ | 13.51 ⁶ |
| | 24 | 1.10 ⁶ | 2.14 ⁶ | 4.35 ⁶ | 6.26 ⁶ | 10.11 ⁶ | 1.46 ⁶ | 2.71 ⁶ | 5.51 ⁶ | 7.89 ⁶ | 13.01 ⁶ |
| 12 | 12 | 1.39 ⁶ | 2.36 ⁶ | 4.40 ⁶ | 6.22 ⁶ | 10.30 ⁶ | 1.74 ⁶ | 2.94 ⁶ | 5.48 ⁶ | 7.69 ⁶ | 12.45 ⁶ |
| | 16 | 1.08 ⁶ | 2.07 ⁶ | 4.10 ⁶ | 5.91 ⁶ | 9.96 ⁶ | 1.42 ⁶ | 2.59 ⁶ | 5.12 ⁶ | 7.34 ⁶ | 12.08 ⁶ |
| | 24 | 0.52 ⁵ | 1.51 ⁶ | 3.54 ⁶ | 5.32 ⁶ | 9.29 ⁶ | 0.83 ⁴ | 1.94 ⁵ | 4.45 ⁶ | 6.68 ⁶ | 11.37 ⁶ |
| 14 | 12 | 0.97 ⁶ | 1.90 ⁶ | 3.71 ⁶ | 5.36 ⁶ | 9.00 ⁶ | 1.29 ⁵ | 2.36 ⁶ | 4.58 ⁶ | 6.59 ⁶ | 10.85 ⁶ |
| | 16 | 0.61 ⁴ | 1.53 ⁶ | 3.34 ⁶ | 4.97 ⁶ | 8.55 ⁶ | 0.91 ⁴ | 1.94 ⁵ | 4.14 ⁶ | 6.15 ⁶ | 10.37 ⁶ |
| | 24 | 0.00 | 0.86 ⁴ | 2.66 ⁵ | 4.24 ⁶ | 7.72 ⁶ | 0.21 ² | 1.17 ³ | 3.35 ⁴ | 5.35 ⁵ | 9.48 ⁶ |
| 16 | 12 | 0.58 ⁴ | 1.42 ⁵ | 2.98 ⁶ | 4.42 ⁶ | 7.55 ⁶ | 0.85 ³ | 1.78 ⁴ | 3.67 ⁵ | 5.44 ⁶ | 9.13 ⁶ |
| | 16 | 0.18 ³ | 1.00 ⁴ | 2.57 ⁵ | 3.97 ⁶ | 7.03 ⁶ | 0.43 ² | 1.31 ³ | 3.19 ⁴ | 4.94 ⁵ | 8.58 ⁶ |
| | 24 | 0.00 | 0.28 ² | 1.83 ³ | 3.18 ⁴ | 6.10 ⁵ | 0.00 | 0.48 ² | 2.33 ² | 4.06 ³ | 7.58 ⁴ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 20psf Lateral Load

| Wall | Spacing | 1000S162-mils (Fy) | | | | | 1000S200-mils (Fy) | | | | |
|------|---------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) |
| 8 | 12 | 3.13 ⁶ | 5.07 ⁶ | 6.83 ⁶ | 10.74 ⁶ | 13.87 ⁶ | 4.27 ⁶ | 7.43 ⁶ | 9.94 ⁶ | 15.62 ⁶ | 20.31 ⁶ |
| | 16 | 3.06 ⁶ | 5.01 ⁶ | 6.77 ⁶ | 10.68 ⁶ | 13.85 ⁶ | 4.18 ⁶ | 7.35 ⁶ | 9.86 ⁶ | 15.55 ⁶ | 20.28 ⁶ |
| | 24 | 2.91 ⁶ | 4.88 ⁶ | 6.64 ⁶ | 10.57 ⁶ | 13.85 ⁶ | 4.01 ⁶ | 7.19 ⁶ | 9.71 ⁶ | 15.39 ⁶ | 20.23 ⁶ |
| 9 | 12 | 3.07 ⁶ | 5.02 ⁶ | 6.78 ⁶ | 10.69 ⁶ | 13.86 ⁶ | 4.20 ⁶ | 7.37 ⁶ | 9.88 ⁶ | 15.56 ⁶ | 20.29 ⁶ |
| | 16 | 2.98 ⁶ | 4.94 ⁶ | 6.70 ⁶ | 10.62 ⁶ | 13.83 ⁶ | 4.09 ⁶ | 7.26 ⁶ | 9.78 ⁶ | 15.46 ⁶ | 20.26 ⁶ |
| | 24 | 2.79 ⁶ | 4.77 ⁶ | 6.54 ⁶ | 10.47 ⁶ | 13.78 ⁶ | 3.87 ⁶ | 7.05 ⁶ | 9.57 ⁶ | 15.27 ⁶ | 20.20 ⁶ |
| 10 | 12 | 3.00 ⁶ | 4.96 ⁶ | 6.72 ⁶ | 10.64 ⁶ | 13.84 ⁶ | 4.12 ⁶ | 7.29 ⁶ | 9.80 ⁶ | 15.48 ⁶ | 20.26 ⁶ |
| | 16 | 2.88 ⁶ | 4.86 ⁶ | 6.62 ⁶ | 10.54 ⁶ | 13.81 ⁶ | 3.98 ⁶ | 7.16 ⁶ | 9.68 ⁶ | 15.36 ⁶ | 20.22 ⁶ |
| | 24 | 2.66 ⁶ | 4.65 ⁶ | 6.43 ⁶ | 10.36 ⁶ | 13.74 ⁶ | 3.71 ⁶ | 6.90 ⁶ | 9.42 ⁶ | 15.12 ⁶ | 20.14 ⁶ |
| 12 | 12 | 2.84 ⁶ | 4.82 ⁶ | 6.58 ⁶ | 10.53 ⁶ | 13.79 ⁶ | 3.93 ⁶ | 7.10 ⁶ | 9.62 ⁶ | 15.31 ⁶ | 20.20 ⁶ |
| | 16 | 2.68 ⁶ | 4.67 ⁶ | 6.44 ⁶ | 10.37 ⁶ | 13.75 ⁶ | 3.73 ⁶ | 6.91 ⁶ | 9.43 ⁶ | 15.12 ⁶ | 20.14 ⁶ |
| | 24 | 2.34 ⁶ | 4.37 ⁶ | 6.15 ⁶ | 10.09 ⁶ | 13.66 ⁶ | 3.35 ⁶ | 6.53 ⁶ | 9.06 ⁶ | 14.76 ⁶ | 20.02 ⁶ |
| 14 | 12 | 2.65 ⁶ | 4.64 ⁶ | 6.41 ⁶ | 10.34 ⁶ | 13.74 ⁶ | 3.70 ⁶ | 6.87 ⁶ | 9.39 ⁶ | 15.08 ⁶ | 20.13 ⁶ |
| | 16 | 2.42 ⁶ | 4.44 ⁶ | 6.21 ⁶ | 10.14 ⁶ | 13.67 ⁶ | 3.43 ⁶ | 6.60 ⁶ | 9.13 ⁶ | 14.82 ⁶ | 20.04 ⁶ |
| | 24 | 1.98 ⁶ | 4.03 ⁶ | 5.82 ⁶ | 9.76 ⁶ | 13.54 ⁶ | 2.91 ⁶ | 6.08 ⁶ | 8.62 ⁶ | 14.32 ⁶ | 19.87 ⁶ |
| 16 | 12 | 2.42 ⁶ | 4.43 ⁶ | 6.20 ⁶ | 10.13 ⁶ | 13.67 ⁶ | 3.43 ⁶ | 6.59 ⁶ | 9.11 ⁶ | 14.80 ⁶ | 20.03 ⁶ |
| | 16 | 2.13 ⁶ | 4.16 ⁶ | 5.94 ⁶ | 9.87 ⁶ | 13.58 ⁶ | 3.08 ⁶ | 6.23 ⁶ | 8.77 ⁶ | 14.45 ⁶ | 19.91 ⁶ |
| | 24 | 1.55 ⁶ | 3.63 ⁶ | 5.42 ⁶ | 9.36 ⁶ | 13.41 ⁶ | 2.40 ⁶ | 5.54 ⁶ | 8.09 ⁶ | 13.77 ⁶ | 19.67 ⁶ |

| Wall | Spacing | 1000S250-mils (Fy) | | | | 1000S300-mils (Fy) | | | | |
|------|---------|--------------------|-------------------|--------------------|----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) |
| 8 | 12 | 4.78 ⁶ | 8.10 ⁶ | 11.74 ⁶ | 19.74 | 25.94 ⁶ | 10.74 ⁶ | 14.41 ⁶ | 24.63 ⁶ | 29.36 ⁶ |
| | 16 | 4.69 ⁶ | 8.01 ⁶ | 11.65 ⁶ | 19.65 | 25.91 ⁶ | 10.71 ⁶ | 14.38 ⁶ | 24.60 ⁶ | 29.33 ⁶ |
| | 24 | 4.51 ⁶ | 7.84 ⁶ | 11.47 ⁶ | 19.48 | 25.85 ⁶ | 10.56 ⁶ | 14.32 ⁶ | 24.53 ⁶ | 29.27 ⁶ |
| 9 | 12 | 4.70 ⁶ | 8.03 ⁶ | 11.66 ⁶ | 19.67 | 25.91 ⁶ | 10.68 ⁶ | 14.34 ⁶ | 24.54 ⁶ | 29.33 ⁶ |
| | 16 | 4.59 ⁶ | 7.92 ⁶ | 11.55 ⁶ | 19.56 | 25.88 ⁶ | 10.64 ⁶ | 14.31 ⁶ | 24.49 ⁶ | 29.29 ⁶ |
| | 24 | 4.36 ⁶ | 7.70 ⁶ | 11.32 ⁶ | 19.34 | 25.81 ⁶ | 10.56 ⁶ | 14.23 ⁶ | 24.41 ⁶ | 29.22 ⁶ |
| 10 | 12 | 4.62 ⁶ | 7.95 ⁶ | 11.58 ⁶ | 19.58 | 25.89 ⁶ | 10.61 ⁶ | 14.26 ⁶ | 24.42 ⁶ | 29.19 ⁶ |
| | 16 | 4.48 ⁶ | 7.81 ⁶ | 11.44 ⁶ | 19.45 | 25.84 ⁶ | 10.56 ⁶ | 14.22 ⁶ | 24.37 ⁶ | 29.14 ⁶ |
| | 24 | 4.19 ⁶ | 7.54 ⁶ | 11.16 ⁶ | 19.18 | 25.75 ⁶ | 10.47 ⁶ | 14.12 ⁶ | 24.26 ⁶ | 29.04 ⁶ |
| 12 | 12 | 4.42 ⁶ | 7.75 ⁶ | 11.37 ⁶ | 19.38 | 25.82 ⁶ | 10.43 ⁶ | 14.05 ⁶ | 24.10 ⁶ | 28.79 ⁶ |
| | 16 | 4.22 ⁶ | 7.56 ⁶ | 11.16 ⁶ | 19.18 | 25.75 ⁶ | 10.36 ⁶ | 13.98 ⁶ | 24.02 ⁶ | 28.72 ⁶ |
| | 24 | 3.81 ⁶ | 7.16 ⁶ | 10.75 ⁶ | 18.78 | 25.62 ⁶ | 10.22 ⁶ | 13.84 ⁶ | 23.87 ⁶ | 28.57 ⁶ |
| 14 | 12 | 4.16 ⁶ | 7.48 ⁶ | 11.09 ⁶ | 19.12 | 25.73 ⁶ | 10.18 ⁶ | 13.75 ⁶ | 23.66 ⁶ | 28.20 ⁶ |
| | 16 | 3.88 ⁶ | 7.20 ⁶ | 10.80 ⁶ | 18.84 | 25.63 ⁶ | 10.08 ⁶ | 13.65 ⁶ | 23.55 ⁶ | 28.10 ⁶ |
| | 24 | 3.33 ⁶ | 6.67 ⁶ | 10.23 ⁶ | 18.27 | 25.44 ⁶ | 9.09 ⁶ | 13.46 ⁶ | 23.33 ⁶ | 27.87 ⁶ |
| 16 | 12 | 3.84 ⁶ | 7.08 ⁶ | 10.64 ⁶ | 18.59 | 25.73 ⁶ | 9.86 ⁶ | 13.36 ⁶ | 23.09 ⁶ | 27.40 ⁶ |
| | 16 | 3.48 ⁶ | 6.72 ⁶ | 10.25 ⁶ | 18.20 | 25.63 ⁶ | 9.73 ⁶ | 13.23 ⁶ | 22.94 ⁶ | 27.26 ⁶ |
| | 24 | 2.77 ⁶ | 6.03 ⁶ | 9.50 ⁶ | 17.45 | 25.44 ⁶ | 9.47 ⁶ | 12.97 ⁶ | 22.65 ⁶ | 26.99 ⁶ |

| Wall | Spacing | 1000S350-mils (Fy) | | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) |
| 8 | 12 | 11.29 ⁶ | 16.23 ⁶ | 26.70 ⁶ | 35.85 ⁶ |
| | 16 | 11.26 ⁶ | 16.20 ⁶ | 26.67 ⁶ | 35.82 ⁶ |
| | 24 | 11.20 ⁶ | 16.13 ⁶ | 26.60 ⁶ | 35.75 ⁶ |
| 9 | 12 | 11.22 ⁶ | 16.15 ⁶ | 26.60 ⁶ | 35.69 ⁶ |
| | 16 | 11.19 ⁶ | 16.11 ⁶ | 26.56 ⁶ | 35.65 ⁶ |
| | 24 | 11.10 ⁶ | 16.03 ⁶ | 26.47 ⁶ | 35.57 ⁶ |
| 10 | 12 | 11.15 ⁶ | 16.06 ⁶ | 26.48 ⁶ | 35.50 ⁶ |
| | 16 | 11.10 ⁶ | 16.00 ⁶ | 26.42 ⁶ | 35.45 ⁶ |
| | 24 | 11.00 ⁶ | 15.90 ⁶ | 26.32 ⁶ | 35.35 ⁶ |
| 12 | 12 | 10.94 ⁶ | 15.81 ⁶ | 26.16 ⁶ | 34.99 ⁶ |
| | 16 | 10.87 ⁶ | 15.73 ⁶ | 26.08 ⁶ | 34.91 ⁶ |
| | 24 | 10.73 ⁶ | 15.58 ⁶ | 25.93 ⁶ | 34.76 ⁶ |
| 14 | 12 | 10.68 ⁶ | 15.47 ⁶ | 25.73 ⁶ | 34.31 ⁶ |
| | 16 | 10.58 ⁶ | 15.37 ⁶ | 25.62 ⁶ | 34.21 ⁶ |
| | 24 | 10.39 ⁶ | 15.17 ⁶ | 25.41 ⁶ | 34.00 ⁶ |
| 16 | 12 | 10.34 ⁶ | 15.06 ⁶ | 25.02 ⁶ | 33.49 ⁶ |
| | 16 | 10.22 ⁶ | 14.92 ⁶ | 24.87 ⁶ | 33.35 ⁶ |
| | 24 | 9.97 ⁶ | 14.65 ⁶ | 24.58 ⁶ | 33.06 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports

Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 15psf Lateral Load



| Wall | Spacing | 1200S162-mils (Fy) | | | 1200S200-mils (Fy) | | | |
|------|---------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 4.85* ⁶ | 6.53 ⁶ | 10.28 ⁶ | 6.57* ⁶ | 9.54 ⁶ | 15.34 ⁶ |
| | 16 | | 4.80* ⁶ | 6.48 ⁶ | 10.24 ⁶ | 6.51* ⁶ | 9.47 ⁶ | 15.28 ⁶ |
| | 24 | | 4.69* ⁶ | 6.38 ⁶ | 10.15 ⁶ | 6.39* ⁶ | 9.35 ⁶ | 15.16 ⁶ |
| 9 | 12 | | 4.81* ⁶ | 6.49 ⁶ | 10.25 ⁶ | 6.52* ⁶ | 9.48 ⁶ | 15.29 ⁶ |
| | 16 | | 4.74* ⁶ | 6.42 ⁶ | 10.19 ⁶ | 6.45* ⁶ | 9.41 ⁶ | 15.21 ⁶ |
| | 24 | | 4.61* ⁶ | 6.30 ⁶ | 10.07 ⁶ | 6.30* ⁶ | 9.25 ⁶ | 15.06 ⁶ |
| 10 | 12 | | 4.76* ⁶ | 6.44 ⁶ | 10.20 ⁶ | 6.47* ⁶ | 9.43 ⁶ | 15.23 ⁶ |
| | 16 | | 4.68* ⁶ | 6.36 ⁶ | 10.13 ⁶ | 6.38* ⁶ | 9.33 ⁶ | 15.14 ⁶ |
| | 24 | | 4.51* ⁶ | 6.21 ⁶ | 9.99 ⁶ | 6.19* ⁶ | 9.13 ⁶ | 14.95 ⁶ |
| 12 | 12 | | 4.65* ⁶ | 6.33 ⁶ | 10.10 ⁶ | 6.35* ⁶ | 9.29 ⁶ | 15.10 ⁶ |
| | 16 | | 4.53* ⁶ | 6.22 ⁶ | 10.00 ⁶ | 6.21* ⁶ | 9.14 ⁶ | 14.96 ⁶ |
| | 24 | | 4.29* ⁶ | 6.00 ⁶ | 9.79 ⁶ | 5.95* ⁶ | 8.86 ⁶ | 14.68 ⁶ |
| 14 | 12 | | 4.51* ⁶ | 6.20 ⁶ | 9.98 ⁶ | 6.20* ⁶ | 9.12 ⁶ | 14.93 ⁶ |
| | 16 | | 4.35* ⁶ | 6.05 ⁶ | 9.83 ⁶ | 6.02* ⁶ | 8.92 ⁶ | 14.74 ⁶ |
| | 24 | | 4.02* ⁶ | 5.74 ⁶ | 9.54 ⁶ | 5.66* ⁶ | 8.52 ⁶ | 14.35 ⁶ |
| 16 | 12 | | 4.35* ⁶ | 6.05 ⁶ | 9.83 ⁶ | 6.04* ⁶ | 8.92 ⁶ | 14.73 ⁶ |
| | 16 | | 4.13* ⁶ | 5.84 ⁶ | 9.64 ⁶ | 5.80* ⁶ | 8.65 ⁶ | 14.47 ⁶ |
| | 24 | | 3.70* ⁶ | 5.43 ⁶ | 9.25 ⁶ | 5.33* ⁶ | 8.13 ⁶ | 13.95 ⁶ |

| Wall | Spacing | 1200S250-mils (Fy) | | | 1200S300-mils (Fy) | | | |
|------|---------|--------------------|-------------------|----------|--------------------|---------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 7.57 ⁶ | 10.97 | 19.35 ⁶ | 10.57* ⁶ | 14.48 ⁶ | 24.72 ⁶ |
| | 16 | | 7.50 ⁶ | 10.91 | 19.28 ⁶ | 10.55* ⁶ | 14.45 ⁶ | 24.69 ⁶ |
| | 24 | | 7.38 ⁶ | 10.77 | 19.13 ⁶ | 10.50* ⁶ | 14.40 ⁶ | 24.64 ⁶ |
| 9 | 12 | | 7.52 ⁶ | 10.92 | 19.29 ⁶ | 10.55* ⁶ | 14.46 ⁶ | 24.70 ⁶ |
| | 16 | | 7.44 ⁶ | 10.83 | 19.20 ⁶ | 10.52* ⁶ | 14.42 ⁶ | 24.66 ⁶ |
| | 24 | | 7.27 ⁶ | 10.66 | 19.01 ⁶ | 10.46* ⁶ | 14.36 ⁶ | 24.60 ⁶ |
| 10 | 12 | | 7.46 ⁶ | 10.85 | 19.22 ⁶ | 10.53* ⁶ | 14.43 ⁶ | 24.67 ⁶ |
| | 16 | | 7.36 ⁶ | 10.75 | 19.11 ⁶ | 10.49* ⁶ | 14.39 ⁶ | 24.63 ⁶ |
| | 24 | | 7.16 ⁶ | 10.53 | 18.88 ⁶ | 10.41* ⁶ | 14.31 ⁶ | 24.54 ⁶ |
| 12 | 12 | | 7.33 ⁶ | 10.71 | 19.06 ⁶ | 10.47* ⁶ | 14.38 ⁶ | 24.61 ⁶ |
| | 16 | | 7.19 ⁶ | 10.55 | 18.89 ⁶ | 10.41* ⁶ | 14.32 ⁶ | 24.55 ⁶ |
| | 24 | | 6.99 ⁶ | 10.24 | 18.56 ⁶ | 10.30* ⁶ | 14.20 ⁶ | 24.43 ⁶ |
| 14 | 12 | | 7.17 ⁶ | 10.52 | 18.86 ⁶ | 10.40* ⁶ | 14.23 ⁶ | 24.48 ⁶ |
| | 16 | | 6.98 ⁶ | 10.31 | 18.62 ⁶ | 10.32* ⁶ | 14.15 ⁶ | 24.39 ⁶ |
| | 24 | | 6.59 ⁶ | 9.88 | 18.16 ⁶ | 10.16* ⁶ | 14.00 ⁶ | 24.22 ⁶ |
| 16 | 12 | | 6.99 ⁶ | 10.30 | 18.61 ⁶ | 10.32* ⁶ | 13.98 ⁶ | 21.11 ⁶ |
| | 16 | | 6.74 ⁶ | 10.02 | 18.30 ⁶ | 10.21* ⁶ | 13.87 ⁶ | 23.99 ⁶ |
| | 24 | | 6.23 ⁶ | 9.45 | 17.67 ⁶ | 10.00* ⁶ | 13.66 ⁶ | 23.76 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0



| Wall | Spacing (in) o.c. | 362S200-mils (Fy) | | | | | | 362S250-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 1.55 ⁶ | 2.56 ⁶ | 4.49 ⁶ | 6.01 ⁶ | 8.95 ⁶ | 11.05 ⁶ | 2.95 ⁶ | 5.08 ⁶ | 7.01 ⁶ | 10.41 ⁶ | 12.79 ⁶ |
| | 16 | 1.27 ⁶ | 2.27 ⁶ | 4.20 ⁶ | 5.72 ⁶ | 8.68 ⁶ | 10.77 ⁶ | 2.63 ⁶ | 4.77 ⁶ | 6.69 ⁶ | 10.13 ⁶ | 12.51 ⁶ |
| | 24 | 0.74 ⁵ | 1.71 ⁶ | 3.65 ⁶ | 5.18 ⁶ | 8.17 ⁶ | 10.24 ⁶ | 2.03 ⁶ | 4.19 ⁶ | 6.08 ⁶ | 9.59 ⁶ | 11.96 ⁶ |
| 9 | 12 | 1.25 ⁶ | 2.19 ⁶ | 3.94 ⁶ | 5.34 ⁶ | 8.07 ⁶ | 9.98 ⁶ | 2.57 ⁶ | 4.55 ⁶ | 6.24 ⁶ | 9.43 ⁶ | 11.62 ⁶ |
| | 16 | 0.92 ⁶ | 1.85 ⁶ | 3.60 ⁶ | 5.00 ⁶ | 7.75 ⁶ | 9.65 ⁶ | 2.19 ⁶ | 4.18 ⁶ | 5.86 ⁶ | 9.09 ⁶ | 11.28 ⁶ |
| | 24 | 0.32 ⁴ | 1.21 ⁵ | 2.97 ⁶ | 4.37 ⁶ | 7.14 ⁶ | 9.01 ⁶ | 1.49 ⁴ | 3.49 ⁶ | 5.15 ⁶ | 8.44 ⁶ | 10.62 ⁶ |
| 10 | 12 | 0.95 ⁴ | 1.82 ⁶ | 3.38 ⁶ | 4.65 ⁶ | 7.15 ⁶ | 8.87 ⁶ | 2.17 ⁶ | 3.99 ⁶ | 5.45 ⁶ | 8.40 ⁶ | 10.39 ⁶ |
| | 16 | 0.59 ⁴ | 1.43 ⁵ | 3.00 ⁶ | 4.27 ⁶ | 6.78 ⁶ | 8.48 ⁶ | 1.74 ⁴ | 3.57 ⁶ | 5.02 ⁶ | 8.01 ⁶ | 9.99 ⁶ |
| | 24 | 0.00 | 0.74 ³ | 2.32 ⁴ | 3.58 ⁵ | 6.10 ⁵ | 7.76 ⁶ | 0.97 ³ | 2.81 ³ | 4.24 ⁴ | 7.28 ⁶ | 9.24 ⁶ |
| 12 | 12 | 0.41 ³ | 1.11 ⁴ | 2.32 ⁵ | 3.32 ⁶ | 5.32 ⁶ | 6.65 ⁶ | 1.37 ³ | 2.79 ⁴ | 3.93 ⁵ | 6.35 ⁶ | 7.93 ⁶ |
| | 16 | 0.01 ² | 0.69 ³ | 1.92 ⁴ | 2.91 ⁵ | 4.91 ⁶ | 6.21 ⁵ | 0.89 ² | 2.33 ³ | 3.47 ⁴ | 5.91 ⁵ | 7.47 ⁶ |
| | 24 | 0.00 | 0.00 | 1.21 ² | 2.19 ³ | 4.17 ⁴ | 5.42 ³ | 0.06 ¹ | 1.53 ² | 2.64 ² | 5.10 ³ | 6.63 ⁴ |
| 14 | 12 | 0.00 | 0.54 ² | 1.49 ³ | 2.28 ⁴ | 3.85 ⁵ | 4.84 ⁴ | 0.71 ² | 1.82 ² | 2.72 ³ | 4.66 ⁴ | 5.88 ⁵ |
| | 16 | 0.00 | 0.12 ² | 1.10 ² | 1.88 ³ | 3.44 ⁴ | 4.41 ³ | 0.23 ¹ | 1.38 ² | 2.26 ² | 4.20 ³ | 5.41 ⁴ |
| | 24 | 0.00 | 0.00 | 0.43 ¹ | 1.18 ² | 2.71 ² | 3.64 ² | 0.00 ¹ | 0.61 ¹ | 1.46 ¹ | 3.40 ² | 4.57 ² |
| 16 | 12 | 0.00 | 0.12 ¹ | 0.91 ² | 1.53 ² | 2.77 ³ | 3.54 ³ | 0.22 ¹ | 1.14 ¹ | 1.85 ² | 3.41 ³ | 4.37 ³ |
| | 16 | 0.00 | 0.00 | 0.54 ¹ | 1.15 ² | 2.38 ² | 3.12 ² | 0.00 | 0.72 ¹ | 1.41 ¹ | 2.97 ² | 3.91 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.50 ¹ | 1.70 ¹ | 2.40 ¹ | 0.00 | 0.00 | 0.66 ¹ | 2.21 ¹ | 3.11 ¹ |

| Wall | Spacing (in) o.c. | 362S300-mils (Fy) | | | | 362S350-mils (Fy) | | | |
|------|----------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 5.17 ⁶ | 8.40 ⁶ | 12.59 ⁶ | 14.50 ⁶ | 7.05 ⁶ | 10.24 ⁶ | 15.26 ⁶ | 18.71 ⁶ |
| | 16 | 4.87 ⁶ | 8.06 ⁶ | 12.27 ⁶ | 14.22 ⁶ | 6.72 ⁶ | 9.88 ⁶ | 14.90 ⁶ | 18.39 ⁶ |
| | 24 | 4.31 ⁶ | 7.41 ⁶ | 11.64 ⁶ | 13.67 ⁶ | 6.08 ⁶ | 9.18 ⁶ | 14.19 ⁶ | 17.57 ⁶ |
| 9 | 12 | 4.66 ⁶ | 7.64 ⁶ | 11.40 ⁶ | 13.23 ⁶ | 6.38 ⁶ | 9.28 ⁶ | 13.82 ⁶ | 17.04 ⁶ |
| | 16 | 4.30 ⁶ | 7.23 ⁶ | 11.01 ⁶ | 12.89 ⁶ | 5.98 ⁶ | 8.84 ⁶ | 13.37 ⁶ | 16.64 ⁶ |
| | 24 | 3.63 ⁵ | 6.45 ⁶ | 10.25 ⁶ | 12.22 ⁶ | 5.22 ⁶ | 8.00 ⁶ | 12.51 ⁶ | 15.87 ⁶ |
| 10 | 12 | 4.12 ⁶ | 6.75 ⁶ | 10.16 ⁶ | 11.90 ⁶ | 5.67 ⁶ | 8.26 ⁶ | 13.31 ⁶ | 15.30 ⁶ |
| | 16 | 3.71 ⁶ | 6.28 ⁶ | 9.70 ⁶ | 11.50 ⁶ | 5.21 ⁶ | 7.75 ⁶ | 11.79 ⁶ | 14.83 ⁶ |
| | 24 | 2.96 ⁴ | 5.41 ⁵ | 8.85 ⁶ | 10.73 ⁶ | 4.36 ⁴ | 6.81 ⁶ | 10.82 ⁶ | 13.93 ⁶ |
| 12 | 12 | 3.08 ⁴ | 4.93 ⁶ | 7.71 ⁶ | 9.22 ⁶ | 4.24 ³ | 6.15 ⁶ | 9.37 ⁶ | 11.84 ⁶ |
| | 16 | 2.59 ³ | 4.41 ⁴ | 7.19 ⁶ | 8.73 ⁶ | 3.71 ⁴ | 5.58 ⁵ | 8.77 ⁶ | 11.26 ⁶ |
| | 24 | 1.74 ² | 3.48 ³ | 6.24 ⁴ | 7.85 ⁵ | 2.77 ² | 4.56 ³ | 7.69 ⁶ | 10.26 ⁶ |
| 14 | 12 | 2.11 ³ | 3.46 ⁴ | 5.65 ⁵ | 6.93 ⁵ | 2.96 ³ | 4.35 ⁴ | 6.86 ⁶ | 8.84 ⁶ |
| | 16 | 1.62 ² | 2.94 ³ | 5.12 ⁴ | 6.43 ⁴ | 2.43 ² | 3.79 ³ | 6.26 ⁴ | 8.27 ⁵ |
| | 24 | 0.76 ¹ | 2.05 ² | 4.19 ² | 5.54 ³ | 1.51 ¹ | 2.81 ¹ | 5.20 ³ | 7.26 ³ |
| 16 | 12 | 1.34 ² | 2.39 ² | 4.15 ³ | 5.22 ⁴ | 2.00 ² | 3.06 ³ | 5.04 ⁴ | 6.65 ⁵ |
| | 16 | 0.87 ¹ | 1.90 ² | 3.63 ² | 4.72 ³ | 1.49 ¹ | 2.53 ² | 4.47 ³ | 6.10 ³ |
| | 24 | 0.07 ¹ | 1.07 ¹ | 2.75 ¹ | 3.86 ² | 0.62 ¹ | 1.62 ¹ | 3.47 ² | 5.12 ² |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



| Wall | Spacing (in) o.c. | 550S162-mils (Fy) | | | | | 550S200-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 1.93 ⁶ | 2.95 ⁶ | 5.22 ⁶ | 7.06 ⁶ | 10.93 ⁶ | 2.33 ⁶ | 3.70 ⁶ | 6.70 ⁶ | 9.15 ⁶ | 14.56 ⁶ |
| | 16 | 1.74 ⁶ | 2.77 ⁶ | 5.05 ⁶ | 6.89 ⁶ | 10.76 ⁶ | 2.12 ⁶ | 3.48 ⁶ | 6.49 ⁶ | 8.95 ⁶ | 14.35 ⁶ |
| | 24 | 1.35 ⁶ | 2.41 ⁶ | 4.70 ⁶ | 6.55 ⁶ | 10.41 ⁶ | 1.73 ⁶ | 3.06 ⁶ | 6.06 ⁶ | 8.55 ⁶ | 13.95 ⁶ |
| 9 | 12 | 1.75 ⁶ | 2.77 ⁶ | 5.03 ⁶ | 6.90 ⁶ | 10.76 ⁶ | 2.13 ⁶ | 3.70 ⁶ | 6.38 ⁶ | 8.79 ⁶ | 14.08 ⁶ |
| | 16 | 1.50 ⁶ | 2.54 ⁶ | 4.80 ⁶ | 6.67 ⁶ | 10.53 ⁶ | 1.88 ⁶ | 3.48 ⁶ | 6.11 ⁶ | 8.53 ⁶ | 13.81 ⁶ |
| | 24 | 1.03 ⁶ | 2.09 ⁶ | 4.36 ⁶ | 6.23 ⁶ | 10.08 ⁶ | 1.38 ⁶ | 3.06 ⁶ | 5.57 ⁶ | 8.02 ⁶ | 13.29 ⁶ |
| 10 | 12 | 1.54 ⁶ | 2.56 ⁶ | 4.76 ⁶ | 6.69 ⁶ | 10.55 ⁶ | 1.91 ⁶ | 3.20 ⁶ | 6.01 ⁶ | 8.37 ⁶ | 13.51 ⁶ |
| | 16 | 1.24 ⁶ | 2.28 ⁶ | 4.48 ⁶ | 6.40 ⁶ | 10.26 ⁶ | 1.60 ⁶ | 2.87 ⁶ | 5.67 ⁶ | 8.05 ⁶ | 13.17 ⁶ |
| | 24 | 0.69 ⁶ | 1.74 ⁶ | 3.95 ⁶ | 5.85 ⁶ | 9.69 ⁶ | 1.02 ⁵ | 2.24 ⁶ | 5.03 ⁶ | 7.42 ⁶ | 12.53 ⁶ |
| 12 | 12 | 1.08 ⁶ | 2.07 ⁶ | 4.10 ⁶ | 5.91 ⁶ | 9.96 ⁶ | 1.42 ⁶ | 2.59 ⁶ | 5.12 ⁶ | 7.34 ⁶ | 12.08 ⁶ |
| | 16 | 0.70 ⁵ | 1.69 ⁶ | 3.72 ⁶ | 5.51 ⁶ | 9.51 ⁶ | 1.02 ⁴ | 2.15 ⁶ | 4.67 ⁶ | 6.89 ⁶ | 11.60 ⁶ |
| | 24 | 0.00 | 0.99 ⁵ | 3.01 ⁶ | 4.76 ⁶ | 8.67 ⁶ | 0.28 ³ | 1.34 ⁴ | 3.83 ⁵ | 6.05 ⁶ | 10.70 ⁶ |
| 14 | 12 | 0.61 ⁴ | 1.53 ⁶ | 3.34 ⁶ | 4.97 ⁶ | 8.55 ⁶ | 0.91 ⁴ | 1.94 ⁵ | 4.14 ⁴ | 6.15 ⁶ | 10.37 ⁶ |
| | 16 | 0.17 ³ | 1.08 ⁴ | 2.88 ⁵ | 4.48 ⁶ | 7.99 ⁶ | 0.44 ³ | 1.42 ³ | 3.61 ³ | 5.61 ⁵ | 9.77 ⁶ |
| | 24 | 0.00 | 0.26 ³ | 2.05 ³ | 3.59 ⁴ | 6.96 ⁶ | 0.00 | 0.48 ² | 2.63 ² | 4.61 ³ | 8.66 ⁶ |
| 16 | 12 | 0.18 ² | 1.00 ⁴ | 2.57 ⁵ | 3.97 ⁶ | 7.03 ⁶ | 0.43 ² | 1.31 ³ | 3.19 ⁴ | 4.94 ⁵ | 8.58 ⁶ |
| | 16 | 0.00 | 0.51 ³ | 2.07 ³ | 3.44 ⁴ | 6.40 ⁶ | 0.00 | 0.74 ² | 2.60 ³ | 4.34 ⁴ | 7.90 ⁶ |
| | 24 | 0.00 | 0.00 | 1.19 ² | 2.48 ³ | 5.29 ⁴ | 0.00 | 0.00 | 1.58 ² | 3.28 ² | 6.69 ⁴ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports

Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 20psf Lateral Load



| Wall | Spacing | 1200S162-mils (Fy) | | | 1200S200-mils (Fy) | | | |
|------|---------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 4.80* ⁶ | 6.48 ⁶ | 10.24 ⁶ | 6.51* ⁶ | 9.47 ⁶ | 15.28 ⁶ |
| | 16 | | 4.73* ⁶ | 6.41 ⁶ | 10.18 ⁶ | 6.43* ⁶ | 9.39 ⁶ | 15.20 ⁶ |
| | 24 | | 4.59* ⁶ | 6.28 ⁶ | 10.05 ⁶ | 6.27* ⁶ | 9.22 ⁶ | 15.04 ⁶ |
| 9 | 12 | | 4.74* ⁶ | 6.42 ⁶ | 10.19 ⁶ | 6.45* ⁶ | 9.41 ⁶ | 15.21 ⁶ |
| | 16 | | 4.65* ⁶ | 6.34 ⁶ | 10.11 ⁶ | 6.35* ⁶ | 9.30 ⁶ | 15.11 ⁶ |
| | 24 | | 4.48* ⁶ | 6.17 ⁶ | 9.95 ⁶ | 6.15* ⁶ | 9.09 ⁶ | 14.91 ⁶ |
| 10 | 12 | | 4.68* ⁶ | 6.36 ⁶ | 10.13 ⁶ | 6.38* ⁶ | 9.33 ⁶ | 15.14 ⁶ |
| | 16 | | 4.57* ⁶ | 6.26 ⁶ | 10.03 ⁶ | 6.25* ⁶ | 9.20 ⁶ | 15.01 ⁶ |
| | 24 | | 4.35* ⁶ | 6.05 ⁶ | 9.84 ⁶ | 6.01* ⁶ | 8.93 ⁶ | 14.76 ⁶ |
| 12 | 12 | | 4.53* ⁶ | 6.22 ⁶ | 10.00 ⁶ | 6.21* ⁶ | 9.14 ⁶ | 14.96 ⁶ |
| | 16 | | 4.37* ⁶ | 6.07 ⁶ | 9.86 ⁶ | 6.04* ⁶ | 8.95 ⁶ | 14.77 ⁶ |
| | 24 | | 4.05* ⁶ | 5.77 ⁶ | 9.57 ⁶ | 5.68* ⁶ | 8.57 ⁶ | 14.40 ⁶ |
| 14 | 12 | | 4.35* ⁶ | 6.05 ⁶ | 9.83 ⁶ | 6.02* ⁶ | 8.92 ⁶ | 14.74 ⁶ |
| | 16 | | 4.13* ⁶ | 5.84 ⁶ | 9.64 ⁶ | 5.78* ⁶ | 8.65 ⁶ | 14.48 ⁶ |
| | 24 | | 3.69* ⁶ | 5.43 ⁶ | 9.25 ⁶ | 5.30* ⁶ | 8.13 ⁶ | 13.96 ⁶ |
| 16 | 12 | | 4.13* ⁶ | 5.84 ⁶ | 9.64 ⁶ | 5.80* ⁶ | 8.65 ⁶ | 14.47 ⁶ |
| | 16 | | 3.85* ⁶ | 5.57 ⁶ | 9.38 ⁶ | 5.48* ⁶ | 8.30 ⁶ | 14.12 ⁶ |
| | 24 | | 3.28* ⁶ | 5.03 ⁶ | 8.87 ⁶ | 4.85* ⁶ | 7.61 ⁶ | 13.43 ⁶ |

| Wall | Spacing | 1200S250-mils (Fy) | | | 1200S300-mils (Fy) | | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 7.50* ⁶ | 10.91 ⁶ | 19.28 ⁶ | 10.35* ⁶ | 14.25 ⁶ | 24.48 ⁶ |
| | 16 | | 7.41* ⁶ | 10.82 ⁶ | 19.18 ⁶ | 10.25* ⁶ | 14.15 ⁶ | 24.38 ⁶ |
| | 24 | | 7.25* ⁶ | 10.64 ⁶ | 18.99 ⁶ | 10.05* ⁶ | 13.96 ⁶ | 24.17 ⁶ |
| 9 | 12 | | 7.44* ⁶ | 10.83 ⁶ | 19.20 ⁶ | 10.26* ⁶ | 14.17 ⁶ | 24.40 ⁶ |
| | 16 | | 7.33* ⁶ | 10.72 ⁶ | 19.07 ⁶ | 10.14* ⁶ | 14.04 ⁶ | 24.26 ⁶ |
| | 24 | | 7.11* ⁶ | 10.49 ⁶ | 18.83 ⁶ | 10.14* ⁶ | 13.79 ⁶ | 24.00 ⁶ |
| 10 | 12 | | 7.36* ⁶ | 10.75 ⁶ | 19.11 ⁶ | 10.17* ⁶ | 14.08 ⁶ | 24.30 ⁶ |
| | 16 | | 7.23* ⁶ | 10.61 ⁶ | 18.95 ⁶ | 10.01* ⁶ | 13.92 ⁶ | 24.13 ⁶ |
| | 24 | | 6.96* ⁶ | 10.32 ⁶ | 18.65 ⁶ | 9.70* ⁶ | 13.61 ⁶ | 23.80 ⁶ |
| 12 | 12 | | 7.19* ⁶ | 10.55 ⁶ | 18.89 ⁶ | 9.95* ⁶ | 13.86 ⁶ | 24.06 ⁶ |
| | 16 | | 6.99* ⁶ | 10.34 ⁶ | 18.67 ⁶ | 9.72* ⁶ | 13.63 ⁶ | 23.81 ⁶ |
| | 24 | | 6.61* ⁶ | 9.93 ⁶ | 18.22 ⁶ | 9.26* ⁶ | 13.17 ⁶ | 23.33 ⁶ |
| 14 | 12 | | 6.98* ⁶ | 10.31 ⁶ | 18.62 ⁶ | 9.68* ⁶ | 13.51 ⁶ | 23.70 ⁶ |
| | 16 | | 6.72* ⁶ | 10.02 ⁶ | 18.31 ⁶ | 9.36* ⁶ | 13.19 ⁶ | 23.36 ⁶ |
| | 24 | | 6.20* ⁶ | 9.45 ⁶ | 17.69 ⁶ | 8.72* ⁶ | 12.56 ⁶ | 22.68 ⁶ |
| 16 | 12 | | 6.74* ⁶ | 10.02 ⁶ | 18.30 ⁶ | 9.35* ⁶ | 13.03 ⁶ | 23.08 ⁶ |
| | 16 | | 6.40* ⁶ | 9.63 ⁶ | 17.88 ⁶ | 8.93* ⁶ | 12.61 ⁶ | 22.62 ⁶ |
| | 24 | | 5.72* ⁶ | 8.88 ⁶ | 17.06 ⁶ | 8.09* ⁶ | 11.79 ⁶ | 21.72 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0



| Wall | Spacing (in) o.c. | 362S200-mils (Fy) | | | | | | 362S250-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 1.34 ⁶ | 2.34 ⁶ | 4.27 ⁶ | 5.79 ⁶ | 8.75 ⁶ | 10.84 ⁶ | 2.71 ⁶ | 4.85 ⁶ | 6.77 ⁶ | 10.20 ⁶ | 12.58 ⁶ |
| | 16 | 1.00 ⁶ | 1.99 ⁶ | 3.92 ⁶ | 5.45 ⁶ | 8.42 ⁶ | 10.50 ⁶ | 2.33 ⁶ | 4.48 ⁶ | 6.38 ⁶ | 9.86 ⁶ | 12.23 ⁶ |
| | 24 | 0.37 ⁴ | 1.33 ⁶ | 3.26 ⁶ | 4.79 ⁶ | 7.80 ⁶ | 9.85 ⁶ | 1.61 ⁵ | 3.77 ⁶ | 5.65 ⁶ | 9.20 ⁶ | 11.57 ⁶ |
| 9 | 12 | 1.00 ⁶ | 1.93 ⁶ | 3.68 ⁶ | 5.08 ⁶ | 7.83 ⁶ | 9.73 ⁶ | 2.28 ⁶ | 4.27 ⁶ | 5.96 ⁶ | 9.17 ⁶ | 11.36 ⁶ |
| | 16 | 0.61 ⁴ | 1.52 ⁶ | 3.28 ⁶ | 4.68 ⁶ | 7.44 ⁶ | 9.32 ⁶ | 1.83 ⁵ | 3.82 ⁶ | 5.50 ⁶ | 8.76 ⁶ | 10.95 ⁶ |
| | 24 | 0.00 | 0.78 ⁴ | 2.54 ⁵ | 3.93 ⁶ | 6.71 ⁶ | 8.55 ⁶ | 1.01 ³ | 3.01 ⁴ | 4.65 ⁵ | 7.98 ⁶ | 10.15 ⁶ |
| 10 | 12 | 0.68 ⁴ | 1.53 ⁶ | 3.10 ⁶ | 4.36 ⁶ | 6.87 ⁶ | 8.57 ⁶ | 1.84 ⁵ | 3.67 ⁶ | 5.13 ⁶ | 8.11 ⁶ | 10.09 ⁶ |
| | 16 | 0.25 ³ | 1.07 ⁴ | 2.65 ⁵ | 3.91 ⁶ | 6.43 ⁶ | 8.11 ⁶ | 1.34 ³ | 3.18 ⁴ | 4.62 ⁶ | 7.64 ⁶ | 9.61 ⁶ |
| | 24 | 0.00 | 0.27 ³ | 1.86 ³ | 3.11 ⁴ | 5.62 ⁵ | 7.25 ⁵ | 0.45 ² | 2.28 ³ | 3.71 ³ | 6.77 ⁵ | 8.71 ⁶ |
| 12 | 12 | 0.11 ² | 0.79 ³ | 2.01 ⁴ | 3.01 ⁵ | 5.01 ⁶ | 6.32 ⁶ | 1.01 ² | 2.44 ³ | 3.58 ⁴ | 6.02 ⁶ | 7.58 ⁶ |
| | 16 | 0.00 | 0.30 ² | 1.55 ³ | 2.53 ⁴ | 4.53 ⁵ | 5.80 ⁴ | 0.46 ² | 1.92 ² | 3.04 ³ | 5.49 ⁴ | 7.04 ⁵ |
| | 24 | 0.00 | 0.00 | 0.75 ² | 1.70 ² | 3.67 ³ | 4.89 ³ | 0.00 ¹ | 1.00 ¹ | 2.09 ² | 4.55 ³ | 6.05 ³ |
| 14 | 12 | 0.00 | 0.22 ² | 1.20 ² | 1.97 ³ | 3.53 ⁴ | 4.51 ³ | 0.35 | 1.48 ² | 2.37 ² | 4.31 ³ | 5.52 ⁴ |
| | 16 | 0.00 | 0.00 | 0.75 ² | 1.51 ² | 3.06 ³ | 4.01 ² | 0.00 | 0.98 ¹ | 1.84 ² | 3.79 ² | 4.97 ³ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.72 ¹ | 2.23 ² | 3.13 ¹ | 0.00 | 0.11 ¹ | 0.93 ¹ | 2.88 ¹ | 4.01 ² |
| 16 | 12 | 0.00 | 0.00 | 0.63 ¹ | 1.24 ² | 2.47 ³ | 3.22 ² | 0.00 | 0.82 ¹ | 1.51 ¹ | 3.07 ² | 4.02 ³ |
| | 16 | 0.00 | 0.00 | 0.22 ¹ | 0.81 ¹ | 2.02 ² | 2.75 ¹ | 0.00 | 0.34 ¹ | 1.02 ¹ | 2.57 ¹ | 3.49 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.08 ¹ | 1.25 ¹ | 1.93 ¹ | 0.00 | 0.00 | 0.17 | 1.71 ¹ | 2.58 ¹ |

| Wall | Spacing (in) o.c. | 362S300-mils (Fy) | | | | 362S350-mils (Fy) | | | |
|------|----------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| | | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 6.25 ⁶ | 8.73 ⁶ | 12.83 ⁶ | 15.80 ⁶ | 6.80 ⁶ | 9.97 ⁶ | 14.99 ⁶ | 18.47 ⁶ |
| | 16 | 5.86 ⁶ | 8.30 ⁶ | 12.42 ⁶ | 15.43 ⁶ | 6.39 ⁶ | 9.53 ⁶ | 14.54 ⁶ | 18.07 ⁶ |
| | 24 | 5.12 ⁶ | 7.49 ⁶ | 11.63 ⁶ | 14.70 ⁶ | 5.63 ⁶ | 8.68 ⁶ | 13.67 ⁶ | 17.30 ⁶ |
| 9 | 12 | 5.54 ⁶ | 7.72 ⁶ | 11.52 ⁶ | 14.29 ⁶ | 6.08 ⁶ | 8.94 ⁶ | 13.48 ⁶ | 16.74 ⁶ |
| | 16 | 5.07 ⁶ | 7.21 ⁶ | 11.03 ⁶ | 13.82 ⁶ | 5.59 ⁶ | 8.41 ⁶ | 12.93 ⁶ | 16.25 ⁶ |
| | 24 | 4.21 ⁴ | 6.26 ⁶ | 10.09 ⁶ | 12.95 ⁶ | 4.69 ³ | 7.42 ⁶ | 11.90 ⁶ | 15.32 ⁶ |
| 10 | 12 | 4.80 ⁶ | 6.68 ⁶ | 10.16 ⁶ | 12.72 ⁶ | 5.32 ⁶ | 7.88 ⁶ | 11.92 ⁶ | 14.94 ⁶ |
| | 16 | 4.28 ⁵ | 6.15 ⁶ | 9.61 ⁶ | 12.19 ⁶ | 4.77 ⁵ | 7.27 ⁶ | 11.30 ⁶ | 14.37 ⁶ |
| | 24 | 3.34 ³ | 5.09 ⁴ | 8.57 ⁶ | 11.19 ⁶ | 3.77 ³ | 6.17 ⁵ | 10.14 ⁶ | 13.31 ⁶ |
| 12 | 12 | 3.40 ⁴ | 4.75 ⁵ | 7.56 ⁶ | 9.63 ⁶ | 3.83 ⁴ | 5.72 ⁶ | 8.91 ⁶ | 11.41 ⁶ |
| | 16 | 2.82 ³ | 4.14 ⁴ | 6.93 ⁵ | 9.03 ⁶ | 3.22 ³ | 5.05 ⁴ | 8.21 ⁶ | 10.75 ⁶ |
| | 24 | 1.81 ² | 3.08 ² | 5.81 ³ | 7.92 ⁴ | 2.14 ² | 3.89 ³ | 6.96 ⁴ | 9.56 ⁴ |
| 14 | 12 | 2.18 ² | 3.22 ³ | 5.41 ⁴ | 7.05 ⁵ | 2.56 ² | 3.92 ³ | 6.40 ⁵ | 8.41 ⁶ |
| | 16 | 1.63 ¹ | 2.63 ² | 4.79 ³ | 6.44 ³ | 1.95 ² | 3.28 ² | 5.71 ³ | 7.74 ⁴ |
| | 24 | 0.69 ¹ | 1.62 ¹ | 3.71 ² | 5.37 ² | 0.90 ¹ | 2.17 ¹ | 4.51 ² | 6.58 ² |
| 16 | 12 | 1.34 ¹ | 2.14 ² | 3.86 ² | 5.19 ³ | 1.62 ¹ | 2.66 ² | 4.60 ³ | 6.23 ⁴ |
| | 16 | 0.82 ¹ | 1.59 ¹ | 3.28 ² | 4.61 ² | 1.04 ¹ | 2.05 ¹ | 3.95 ² | 5.59 ³ |
| | 24 | 0.00 | 0.65 ¹ | 2.27 ¹ | 3.59 ¹ | 0.06 | 1.03 ¹ | 2.82 ¹ | 4.49 ² |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 25psf Lateral Load

| Wall | Spacing | 400S137-mils (Fy) | | | | | 400S162-mils (Fy) | | | | | |
|------|---------|-------------------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) |
| 8 | 12 | 0.89 ⁶ | 1.56 ⁶ | 2.98 ⁶ | 4.24 ⁶ | 5.91 | 1.23 ⁶ | 2.05 ⁶ | 3.85 ⁶ | 5.37 ⁶ | 8.36 ⁶ | 10.47 ⁶ |
| | 16 | 0.61 ⁶ | 1.27 ⁶ | 2.71 ⁶ | 3.94 ⁶ | 5.68 | 0.93 ⁶ | 1.74 ⁶ | 3.55 ⁶ | 5.06 ⁶ | 8.05 ⁶ | 10.15 ⁶ |
| | 24 | 0.10 ⁴ | 0.72 ⁵ | 2.19 ⁶ | 3.39 ⁶ | 5.22 | 0.37 ⁵ | 1.15 ⁶ | 2.98 ⁶ | 4.45 ⁶ | 7.47 ⁶ | 9.54 ⁶ |
| 9 | 12 | 0.64 ⁶ | 1.27 ⁶ | 2.63 ⁶ | 3.84 ⁶ | 5.66 | 0.94 ⁶ | 1.72 ⁶ | 3.41 ⁶ | 4.84 ⁶ | 7.64 ⁶ | 9.59 ⁶ |
| | 16 | 0.32 ⁴ | 0.93 ⁵ | 2.31 ⁶ | 3.49 ⁶ | 5.35 | 0.59 ⁵ | 1.35 ⁶ | 3.06 ⁶ | 4.45 ⁶ | 7.26 ⁶ | 9.20 ⁶ |
| | 24 | 0.00 | 0.29 ³ | 1.70 ⁴ | 2.82 ⁵ | 4.78 | 0.00 | 0.66 ⁴ | 2.39 ⁵ | 3.73 ⁶ | 6.56 ⁶ | 8.45 ⁶ |
| 10 | 12 | 0.39 ⁴ | 0.97 ⁵ | 2.26 ⁶ | 3.36 ⁶ | 5.35 | 0.65 ⁵ | 1.38 ⁶ | 2.95 ⁶ | 4.26 ⁶ | 6.84 ⁶ | 8.61 ⁶ |
| | 16 | 0.03 ³ | 0.59 ⁴ | 1.89 ⁵ | 2.95 ⁶ | 4.97 | 0.26 ³ | 0.96 ⁷ | 2.54 ⁶ | 3.82 ⁶ | 6.41 ⁶ | 8.15 ⁶ |
| | 24 | 0.00 | 0.00 | 1.22 ³ | 2.21 ⁴ | 4.27 | 0.00 | 0.20 ³ | 1.81 ⁴ | 3.01 ⁵ | 5.60 ⁶ | 7.29 ⁵ |
| 12 | 12 | 0.00 | 0.41 ³ | 1.51 ⁴ | 2.37 ⁵ | 4.26 | 0.13 ³ | 0.72 ³ | 2.03 ⁴ | 3.06 ⁵ | 5.19 ⁶ | 6.58 ⁶ |
| | 16 | 0.00 | 0.00 | 1.09 ³ | 1.91 ³ | 3.79 | 0.00 | 0.25 ² | 1.58 ³ | 2.56 ⁴ | 4.69 ⁵ | 6.05 ⁴ |
| | 24 | 0.00 | 0.00 | 0.37 ² | 1.11 ² | 2.96 | 0.00 | 0.00 | 0.78 ² | 1.70 ² | 3.79 ³ | 5.09 ³ |
| 14 | 12 | 0.00 | 0.00 | 0.87 ² | 1.52 ³ | 2.99 | 0.00 | 0.18 ² | 1.26 ² | 2.02 ³ | 3.71 ⁴ | 4.75 ⁴ |
| | 16 | 0.00 | 0.00 | 0.46 ¹ | 1.06 ² | 2.53 | 0.00 | 0.00 | 0.81 ² | 1.54 ² | 3.20 ³ | 4.22 ³ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.28 ¹ | 1.72 | 0.00 | 0.00 | 0.03 ¹ | 0.70 ¹ | 2.33 ² | 3.28 ² |
| 16 | 12 | 0.00 | 0.00 | 0.40 ¹ | 0.89 ² | 2.05 | 0.00 | 0.00 | 0.68 ² | 1.27 ² | 2.59 ³ | 3.39 ² |
| | 16 | 0.00 | 0.00 | 0.00 | 0.46 ¹ | 1.61 | 0.00 | 0.00 | 0.25 ¹ | 0.81 ¹ | 2.12 ² | 2.88 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.02 ¹ | 1.30 ¹ | 2.01 ¹ |

| Wall | Spacing | 400S200-mils (Fy) | | | | | 400S250-mils (Fy) | | | | | |
|------|---------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) |
| 8 | 12 | 1.55 ⁶ | 2.67 ⁶ | 4.89 ⁶ | 6.76 ⁶ | 10.25 ⁶ | 12.65 ⁶ | 3.03 ⁶ | 5.37 ⁶ | 7.72 ⁶ | 11.94 ⁶ | 14.67 ⁶ |
| | 16 | 1.22 ⁶ | 2.32 ⁶ | 4.55 ⁶ | 6.41 ⁶ | 9.93 ⁶ | 12.32 ⁶ | 2.66 ⁶ | 5.02 ⁶ | 7.34 ⁶ | 11.60 ⁶ | 14.33 ⁶ |
| | 24 | 0.60 ³ | 1.67 ⁶ | 3.89 ⁶ | 5.75 ⁶ | 9.31 ⁶ | 11.67 ⁶ | 1.97 ⁶ | 4.34 ⁶ | 6.61 ⁶ | 10.94 ⁶ | 13.66 ⁶ |
| 9 | 12 | 1.23 ⁶ | 2.28 ⁶ | 4.34 ⁶ | 6.10 ⁶ | 9.38 ⁶ | 11.60 ⁶ | 2.63 ⁶ | 4.89 ⁶ | 7.06 ⁶ | 10.95 ⁶ | 13.50 ⁶ |
| | 16 | 0.84 ⁶ | 1.87 ⁶ | 3.92 ⁶ | 5.68 ⁶ | 8.98 ⁶ | 11.19 ⁶ | 2.19 ⁶ | 4.45 ⁶ | 6.60 ⁶ | 10.53 ⁶ | 13.08 ⁶ |
| | 24 | 0.14 ⁴ | 1.12 ⁵ | 3.16 ⁶ | 4.89 ⁶ | 8.23 ⁶ | 10.40 ⁶ | 1.38 ⁴ | 3.64 ⁵ | 5.72 ⁶ | 9.73 ⁶ | 12.27 ⁶ |
| 10 | 12 | 0.90 ⁵ | 1.87 ⁶ | 3.75 ⁶ | 5.39 ⁶ | 8.42 ⁶ | 10.46 ⁶ | 2.20 ⁶ | 4.32 ⁶ | 6.31 ⁶ | 9.88 ⁶ | 12.25 ⁶ |
| | 16 | 0.47 ⁴ | 1.41 ⁵ | 3.29 ⁶ | 4.91 ⁶ | 7.96 ⁶ | 9.98 ⁶ | 1.70 ⁴ | 3.82 ⁵ | 5.76 ⁶ | 9.39 ⁶ | 11.75 ⁶ |
| | 24 | 0.00 | 0.58 ³ | 2.45 ⁴ | 4.03 ⁵ | 7.10 ⁶ | 9.08 ⁶ | 0.80 ³ | 2.90 ³ | 4.77 ⁴ | 8.47 ⁶ | 10.80 ⁶ |
| 12 | 12 | 0.30 ³ | 1.10 ⁴ | 2.62 ⁵ | 3.95 ⁶ | 6.47 ⁶ | 8.11 ⁶ | 1.37 ³ | 3.16 ⁴ | 4.66 ⁵ | 7.69 ⁶ | 9.64 ⁶ |
| | 16 | 0.00 | 0.58 ³ | 2.11 ⁴ | 3.41 ⁵ | 5.93 ⁶ | 7.54 ⁵ | 0.79 ² | 2.57 ³ | 4.05 ⁴ | 7.10 ⁵ | 9.03 ⁶ |
| | 24 | 0.00 | 0.00 | 1.20 ² | 2.45 ³ | 4.96 ⁴ | 6.51 ³ | 0.00 ¹ | 1.54 ² | 2.95 ² | 6.04 ³ | 7.93 ⁴ |
| 14 | 12 | 0.00 | 0.46 ² | 1.67 ³ | 2.69 ⁴ | 4.70 ⁵ | 5.96 ⁴ | 0.63 ² | 2.05 ² | 3.21 ³ | 5.68 ⁴ | 7.22 ⁵ |
| | 16 | 0.00 | 0.00 | 1.16 ² | 2.15 ³ | 4.15 ⁴ | 5.38 ³ | 0.03 ¹ | 1.47 ² | 2.60 ² | 5.07 ³ | 6.59 ⁴ |
| | 24 | 0.00 | 0.00 | 0.28 ¹ | 1.23 ² | 3.20 ² | 4.36 ² | 0.00 ¹ | 0.46 ¹ | 1.53 ¹ | 4.01 ² | 5.47 ² |
| 16 | 12 | 0.00 | 0.00 | 0.97 ² | 1.76 ² | 3.36 ³ | 4.33 ³ | 0.07 ¹ | 1.23 ¹ | 2.13 ² | 4.12 ³ | 5.33 ³ |
| | 16 | 0.00 | 0.00 | 0.49 ¹ | 1.26 ² | 2.84 ² | 3.78 ² | 0.00 | 0.67 ¹ | 1.54 ¹ | 3.54 ² | 4.72 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.39 ¹ | 1.93 ¹ | 2.82 ¹ | 0.00 | 0.00 | 0.55 ¹ | 2.53 ¹ | 3.65 ¹ |

| Wall | Spacing | 400S300-mils (Fy) | | | | 400S350-mils (Fy) | | | |
|------|---------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) |
| 8 | 12 | 5.53 ⁶ | 8.09 ⁶ | 12.92 ⁶ | 16.64 ⁶ | 7.49 ⁶ | 11.07 ⁶ | 17.19 ⁶ | 21.12 ⁶ |
| | 16 | 5.19 ⁶ | 7.72 ⁶ | 12.55 ⁶ | 16.29 ⁶ | 7.11 ⁶ | 10.66 ⁶ | 16.75 ⁶ | 20.74 ⁶ |
| | 24 | 4.52 ⁶ | 7.00 ⁶ | 11.83 ⁶ | 15.62 ⁶ | 6.38 ⁶ | 9.85 ⁶ | 15.90 ⁶ | 19.98 ⁶ |
| 9 | 12 | 5.02 ⁶ | 7.47 ⁶ | 11.96 ⁶ | 15.38 ⁶ | 6.83 ⁶ | 10.22 ⁶ | 15.76 ⁶ | 19.49 ⁶ |
| | 16 | 4.60 ⁶ | 7.01 ⁶ | 11.50 ⁶ | 14.95 ⁶ | 6.37 ⁶ | 9.70 ⁶ | 15.21 ⁶ | 19.01 ⁶ |
| | 24 | 3.80 ⁵ | 6.13 ⁶ | 10.62 ⁶ | 14.12 ⁶ | 5.49 ⁶ | 8.71 ⁶ | 14.17 ⁶ | 18.08 ⁶ |
| 10 | 12 | 4.46 ⁶ | 6.79 ⁶ | 10.95 ⁶ | 14.02 ⁶ | 6.13 ⁶ | 9.25 ⁶ | 14.23 ⁶ | 17.75 ⁶ |
| | 16 | 3.97 ⁶ | 6.24 ⁶ | 10.39 ⁶ | 13.50 ⁶ | 5.58 ⁶ | 8.64 ⁶ | 13.59 ⁶ | 17.17 ⁶ |
| | 24 | 3.06 ⁴ | 5.22 ⁵ | 9.36 ⁶ | 12.53 ⁶ | 4.58 ⁴ | 7.50 ⁶ | 12.39 ⁶ | 16.08 ⁶ |
| 12 | 12 | 3.32 ⁴ | 5.18 ⁶ | 8.70 ⁶ | 11.18 ⁶ | 4.67 ⁵ | 7.19 ⁶ | 11.13 ⁶ | 14.17 ⁶ |
| | 16 | 2.74 ³ | 4.53 ⁴ | 8.02 ⁶ | 10.54 ⁶ | 4.03 ⁴ | 6.46 ⁵ | 10.36 ⁶ | 13.45 ⁶ |
| | 24 | 1.69 ² | 3.36 ³ | 6.79 ⁴ | 9.39 ⁵ | 2.87 ² | 5.15 ³ | 8.98 ⁵ | 12.14 ⁶ |
| 14 | 12 | 2.31 ³ | 3.71 ⁴ | 6.44 ⁵ | 8.49 ⁶ | 3.32 ³ | 5.17 ⁴ | 8.31 ⁶ | 10.80 ⁶ |
| | 16 | 1.68 ² | 3.03 ³ | 5.74 ⁴ | 7.83 ⁴ | 2.64 ² | 4.42 ³ | 7.51 ⁴ | 10.05 ⁵ |
| | 24 | 0.59 ¹ | 1.86 ² | 4.51 ² | 6.64 ³ | 1.47 ¹ | 3.14 ² | 6.12 ³ | 8.70 ³ |
| 16 | 12 | 1.45 ² | 2.51 ² | 4.68 ³ | 6.36 ⁴ | 2.23 ² | 3.58 ³ | 6.06 ⁴ | 8.09 ⁵ |
| | 16 | 0.83 ¹ | 1.86 ² | 3.99 ² | 5.70 ³ | 1.56 ¹ | 2.88 ² | 5.30 ³ | 7.36 ³ |
| | 24 | 0.00 ¹ | 0.74 ¹ | 2.83 ¹ | 4.56 ² | 0.44 ¹ | 1.68 ¹ | 3.99 ² | 6.07 ² |

Notes:
 • ¹ Deflection meets L/120 • ³ Deflection meets L/360 • ⁵ Deflection meets L/600 • Axial Load Multiplier = 1 • Lateral Load Multiplier - Strength = 1 • * h/t > 200, stiffeners are required at supports
 • ² Deflection meets L/240 • ⁴ Deflection meets L/480 • ⁶ Deflection meets L/720 • KyLy & KtLt = 48 • Lateral Load Multiplier - Deflection = 1.0



| Wall | Spacing (in) o.c. | 550S162-mils (Fy) | | | | | 550S200-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 1.79 ⁶ | 2.82 ⁶ | 5.09 ⁶ | 6.93 ⁶ | 10.80 ⁶ | 2.17 ⁶ | 3.54 ⁶ | 6.54 ⁶ | 9.00 ⁶ | 14.40 ⁶ |
| | 16 | 1.54 ⁶ | 2.59 ⁶ | 4.87 ⁶ | 6.72 ⁶ | 10.58 ⁶ | 1.92 ⁶ | 3.27 ⁶ | 6.27 ⁶ | 8.75 ⁶ | 14.15 ⁶ |
| | 24 | 1.07 ⁶ | 2.14 ⁶ | 4.44 ⁶ | 6.30 ⁶ | 10.16 ⁶ | 1.43 ⁶ | 2.75 ⁶ | 5.75 ⁶ | 8.25 ⁶ | 13.65 ⁶ |
| 9 | 12 | 1.56 ⁶ | 2.59 ⁶ | 4.86 ⁶ | 6.73 ⁶ | 10.59 ⁶ | 1.94 ⁶ | 3.26 ⁶ | 6.18 ⁶ | 8.60 ⁶ | 13.88 ⁶ |
| | 16 | 1.26 ⁶ | 2.31 ⁶ | 4.58 ⁶ | 6.45 ⁶ | 10.31 ⁶ | 1.63 ⁶ | 2.93 ⁶ | 5.84 ⁶ | 8.28 ⁶ | 13.55 ⁶ |
| | 24 | 0.68 ⁶ | 1.76 ⁶ | 4.04 ⁶ | 5.91 ⁶ | 9.76 ⁶ | 1.03 ⁶ | 2.28 ⁶ | 5.18 ⁶ | 7.65 ⁶ | 12.91 ⁶ |
| 10 | 12 | 1.32 ⁶ | 2.34 ⁶ | 4.55 ⁶ | 6.47 ⁶ | 10.33 ⁶ | 1.68 ⁶ | 2.95 ⁶ | 5.75 ⁶ | 8.13 ⁶ | 13.26 ⁶ |
| | 16 | 0.96 ⁶ | 2.00 ⁶ | 4.21 ⁶ | 6.13 ⁶ | 9.97 ⁶ | 1.31 ⁶ | 2.55 ⁶ | 5.34 ⁶ | 7.73 ⁶ | 12.85 ⁶ |
| | 24 | 0.29 ⁵ | 1.35 ⁶ | 3.56 ⁶ | 5.46 ⁶ | 9.28 ⁶ | 0.61 ⁴ | 1.79 ⁵ | 4.56 ⁶ | 6.97 ⁶ | 12.05 ⁶ |
| 12 | 12 | 0.79 ⁶ | 1.78 ⁶ | 3.82 ⁶ | 5.61 ⁶ | 9.62 ⁶ | 1.12 ⁵ | 2.26 ⁶ | 4.78 ⁶ | 7.00 ⁶ | 11.72 ⁶ |
| | 16 | 0.34 ⁴ | 1.33 ⁶ | 3.36 ⁶ | 5.13 ⁶ | 9.08 ⁶ | 0.64 ³ | 1.74 ⁴ | 4.24 ⁶ | 6.47 ⁶ | 11.14 ⁶ |
| | 24 | 0.00 | 0.50 ⁴ | 2.51 ⁵ | 4.24 ⁶ | 8.07 ⁶ | 0.00 ² | 0.78 ³ | 3.24 ⁴ | 5.46 ⁵ | 10.05 ⁶ |
| 14 | 12 | 0.28 ³ | 1.19 ⁵ | 2.99 ⁶ | 4.59 ⁶ | 8.13 ⁶ | 0.55 ³ | 1.54 ⁴ | 3.74 ⁵ | 5.74 ⁶ | 9.92 ⁶ |
| | 16 | 0.00 | 0.66 ³ | 2.45 ⁴ | 4.02 ⁵ | 7.46 ⁶ | 0.00 ² | 0.93 ³ | 3.10 ³ | 5.09 ⁴ | 9.20 ⁶ |
| | 24 | 0.00 | 0.00 | 1.49 ³ | 2.98 ³ | 6.26 ⁵ | 0.00 ¹ | 0.00 ² | 1.97 ² | 3.93 ³ | 7.90 ⁴ |
| 16 | 12 | 0.00 | 0.63 ³ | 2.19 ⁴ | 3.56 ⁵ | 6.56 ⁶ | 0.04 ² | 0.88 ² | 2.74 ³ | 4.49 ⁴ | 8.06 ⁵ |
| | 16 | 0.00 | 0.06 ² | 1.61 ³ | 2.94 ³ | 5.82 ⁵ | 0.00 ¹ | 0.22 ² | 2.07 ² | 3.79 ³ | 7.27 ⁴ |
| | 24 | 0.00 | 0.00 | 0.60 ² | 1.84 ² | 4.55 ³ | 0.00 ¹ | 0.00 ¹ | 0.90 ¹ | 2.57 ² | 5.88 ² |

Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0



Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 30psf Lateral Load

| Wall | Spacing | 600S137-mils (Fy) | | | | | 600S162-mils (Fy) | | | | | |
|------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) |
| 8 | 12 | 1.31 ⁶ | 2.06 ⁶ | 3.43 ⁶ | 4.68 ⁶ | 7.22 ⁶ | 1.87 ⁶ | 2.89 ⁶ | 5.14 ⁶ | 6.99 ⁶ | 10.94 ⁶ | 13.76 ⁶ |
| | 16 | 1.12 ⁶ | 1.87 ⁶ | 3.27 ⁶ | 4.52 ⁶ | 7.09 ⁶ | 1.64 ⁶ | 2.69 ⁶ | 4.94 ⁶ | 6.80 ⁶ | 10.76 ⁶ | 13.57 ⁶ |
| | 24 | 0.75 ⁶ | 1.51 ⁶ | 2.96 ⁶ | 4.22 ⁶ | 6.83 ⁶ | 1.21 ⁶ | 2.28 ⁶ | 4.56 ⁶ | 6.43 ⁶ | 10.39 ⁶ | 13.19 ⁶ |
| 9 | 12 | 1.15 ⁶ | 1.90 ⁶ | 3.29 ⁶ | 4.54 ⁶ | 7.10 ⁶ | 1.68 ⁶ | 2.71 ⁶ | 4.96 ⁶ | 6.81 ⁶ | 10.77 ⁶ | 13.58 ⁶ |
| | 16 | 0.91 ⁶ | 1.67 ⁶ | 3.09 ⁶ | 4.34 ⁶ | 6.93 ⁶ | 1.40 ⁶ | 2.45 ⁶ | 4.71 ⁶ | 6.57 ⁶ | 10.53 ⁶ | 13.33 ⁶ |
| | 24 | 0.46 ⁶ | 1.21 ⁶ | 2.70 ⁶ | 3.95 ⁶ | 6.59 ⁶ | 0.86 ⁶ | 1.95 ⁶ | 4.22 ⁶ | 6.09 ⁶ | 10.05 ⁶ | 12.83 ⁶ |
| 10 | 12 | 0.97 ⁶ | 1.72 ⁶ | 3.13 ⁶ | 4.38 ⁶ | 6.96 ⁶ | 1.46 ⁶ | 2.51 ⁶ | 4.75 ⁶ | 6.61 ⁶ | 10.56 ⁶ | 13.35 ⁶ |
| | 16 | 0.69 ⁶ | 1.44 ⁶ | 2.88 ⁶ | 4.13 ⁶ | 6.75 ⁶ | 1.13 ⁶ | 2.19 ⁶ | 4.44 ⁶ | 6.30 ⁶ | 10.25 ⁶ | 13.03 ⁶ |
| | 24 | 0.14 ³ | 0.89 ⁶ | 2.40 ⁶ | 3.65 ⁶ | 6.32 ⁶ | 0.48 ⁶ | 1.58 ⁶ | 3.84 ⁶ | 5.71 ⁶ | 9.65 ⁶ | 12.40 ⁶ |
| 12 | 12 | 0.58 ⁶ | 1.32 ⁶ | 2.75 ⁶ | 3.99 ⁶ | 6.61 ⁶ | 0.97 ⁶ | 2.01 ⁶ | 4.20 ⁶ | 6.09 ⁶ | 10.01 ⁶ | 12.76 ⁶ |
| | 16 | 0.20 ³ | 0.93 ⁶ | 2.40 ⁶ | 3.64 ⁶ | 6.28 ⁶ | 0.53 ⁵ | 1.58 ⁶ | 3.77 ⁶ | 5.64 ⁶ | 9.54 ⁶ | 12.27 ⁶ |
| | 24 | 0.00 | 0.20 ⁴ | 1.73 ⁵ | 2.95 ⁶ | 5.66 ⁶ | 0.00 | 0.76 ⁵ | 2.94 ⁶ | 4.79 ⁶ | 8.66 ⁶ | 11.32 ⁶ |
| 14 | 12 | 0.16 ⁴ | 0.86 ⁵ | 2.30 ⁶ | 3.51 ⁶ | 6.14 ⁶ | 0.45 ⁴ | 1.44 ⁶ | 3.44 ⁶ | 5.21 ⁶ | 9.22 ⁶ | 11.92 ⁶ |
| | 16 | 0.00 | 0.38 ⁴ | 1.84 ⁵ | 3.04 ⁶ | 5.70 ⁶ | 0.00 | 0.91 ⁴ | 2.90 ⁵ | 4.64 ⁶ | 8.58 ⁶ | 11.22 ⁶ |
| | 24 | 0.00 | 0.00 | 1.00 ³ | 2.16 ⁴ | 4.86 ⁵ | 0.00 | 0.00 | 1.92 ³ | 3.60 ⁴ | 7.39 ⁶ | 9.93 ⁵ |
| 16 | 12 | 0.00 | 0.39 ³ | 1.80 ⁴ | 2.96 ⁵ | 5.56 ⁶ | 0.00 | 0.87 ⁴ | 2.64 ⁵ | 4.21 ⁶ | 7.74 ⁶ | 10.34 ⁶ |
| | 16 | 0.00 | 0.00 | 1.25 ³ | 2.38 ⁴ | 4.99 ⁵ | 0.00 | 0.29 ³ | 2.04 ³ | 3.57 ⁴ | 6.99 ⁶ | 9.50 ⁵ |
| | 24 | 0.00 | 0.00 | 0.28 ² | 1.35 ² | 3.95 ³ | 0.00 | 0.00 | 0.98 ² | 2.42 ³ | 5.67 ⁴ | 8.00 ³ |

| Wall | Spacing | 600S200-mils (Fy) | | | | | 600S250-mils (Fy) | | | | | |
|------|---------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) |
| 8 | 12 | 2.29 ⁶ | 3.71 ⁶ | 6.86 ⁶ | 9.41 ⁶ | 15.09 ⁶ | 19.46 ⁶ | 4.04 ⁶ | 7.06 ⁶ | 10.43 ⁶ | 17.65 ⁶ | 22.73 ⁶ |
| | 16 | 2.06 ⁶ | 3.46 ⁶ | 6.61 ⁶ | 9.18 ⁶ | 14.86 ⁶ | 19.21 ⁶ | 3.79 ⁶ | 6.82 ⁶ | 10.17 ⁶ | 17.39 ⁶ | 22.47 ⁶ |
| | 24 | 1.60 ⁶ | 2.98 ⁶ | 6.12 ⁶ | 8.72 ⁶ | 14.40 ⁶ | 18.73 ⁶ | 3.29 ⁶ | 6.35 ⁶ | 9.65 ⁶ | 16.88 ⁶ | 21.95 ⁶ |
| 9 | 12 | 2.08 ⁶ | 3.46 ⁶ | 6.54 ⁶ | 9.07 ⁶ | 14.66 ⁶ | 19.05 ⁶ | 3.79 ⁶ | 6.76 ⁶ | 10.04 ⁶ | 17.11 ⁶ | 22.08 ⁶ |
| | 16 | 1.79 ⁶ | 3.15 ⁶ | 6.23 ⁶ | 8.78 ⁶ | 14.36 ⁶ | 18.73 ⁶ | 3.47 ⁶ | 6.46 ⁶ | 9.71 ⁶ | 16.77 ⁶ | 21.74 ⁶ |
| | 24 | 1.23 ⁶ | 2.55 ⁶ | 5.61 ⁶ | 8.19 ⁶ | 13.77 ⁶ | 18.09 ⁶ | 2.85 ⁶ | 5.87 ⁶ | 9.06 ⁶ | 16.12 ⁶ | 21.08 ⁶ |
| 10 | 12 | 1.84 ⁶ | 3.18 ⁶ | 6.17 ⁶ | 8.67 ⁶ | 14.14 ⁶ | 18.41 ⁶ | 3.51 ⁶ | 6.42 ⁶ | 9.59 ⁶ | 16.47 ⁶ | 21.31 ⁶ |
| | 16 | 1.49 ⁶ | 2.81 ⁶ | 5.79 ⁶ | 8.30 ⁶ | 13.76 ⁶ | 18.01 ⁶ | 3.12 ⁶ | 6.05 ⁶ | 9.18 ⁶ | 16.05 ⁶ | 20.89 ⁶ |
| | 24 | 0.82 ⁶ | 2.08 ⁶ | 5.05 ⁶ | 7.59 ⁶ | 13.03 ⁶ | 17.22 ⁶ | 2.38 ⁶ | 5.32 ⁶ | 8.39 ⁶ | 15.24 ⁶ | 20.05 ⁶ |
| 12 | 12 | 1.31 ⁶ | 2.55 ⁶ | 5.30 ⁶ | 7.68 ⁶ | 12.83 ⁶ | 16.78 ⁶ | 2.87 ⁶ | 5.61 ⁶ | 8.53 ⁶ | 14.89 ⁶ | 19.41 ⁶ |
| | 16 | 0.85 ⁶ | 2.04 ⁶ | 4.78 ⁶ | 7.17 ⁶ | 12.28 ⁶ | 16.19 ⁶ | 2.34 ⁶ | 5.09 ⁶ | 7.95 ⁶ | 14.29 ⁶ | 18.78 ⁶ |
| | 24 | 0.00 | 1.10 ⁵ | 3.79 ⁶ | 6.20 ⁶ | 11.25 ⁶ | 15.06 ⁶ | 1.35 ⁴ | 4.11 ⁵ | 6.86 ⁶ | 13.15 ⁶ | 17.59 ⁶ |
| 14 | 12 | 0.76 ⁵ | 1.86 ⁶ | 4.31 ⁶ | 6.51 ⁶ | 11.20 ⁶ | 14.73 ⁶ | 2.16 ⁵ | 4.69 ⁶ | 7.29 ⁶ | 13.00 ⁶ | 17.09 ⁶ |
| | 16 | 0.21 ⁴ | 1.25 ⁵ | 3.67 ⁶ | 5.87 ⁶ | 10.50 ⁶ | 13.96 ⁶ | 1.51 ⁴ | 4.05 ⁵ | 6.57 ⁶ | 12.23 ⁶ | 16.28 ⁶ |
| | 24 | 0.00 | 0.14 ³ | 2.51 ⁴ | 4.70 ⁵ | 9.21 ⁶ | 12.53 ⁶ | 0.34 ² | 2.86 ³ | 5.24 ⁴ | 10.80 ⁶ | 14.76 ⁶ |
| 16 | 12 | 0.23 ³ | 1.18 ⁴ | 3.31 ⁶ | 5.28 ⁶ | 9.42 ⁶ | 12.47 ⁶ | 1.44 ³ | 3.78 ⁴ | 6.02 ⁵ | 10.97 ⁶ | 14.57 ⁶ |
| | 16 | 0.00 | 0.50 ³ | 2.61 ⁴ | 4.57 ⁵ | 8.61 ⁶ | 11.57 ⁶ | 0.71 ² | 3.03 ³ | 5.18 ⁴ | 10.07 ⁶ | 13.61 ⁶ |
| | 24 | 0.00 | 0.00 | 1.37 ³ | 3.28 ³ | 7.16 ⁵ | 9.96 ⁴ | 0.00 ¹ | 1.70 ² | 3.70 ³ | 8.47 ⁴ | 11.88 ⁴ |

| Wall | Spacing | 600S300-mils (Fy) | | | | 600S350-mils (Fy) | | | |
|------|---------|-------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) |
| 8 | 12 | 7.36 ⁶ | 10.59 ⁶ | 18.82 ⁶ | 24.70 ⁶ | 9.62 ⁶ | 14.11 ⁶ | 23.31 ⁶ | 31.10 ⁶ |
| | 16 | 7.12 ⁶ | 10.34 ⁶ | 18.54 ⁶ | 24.43 ⁶ | 9.37 ⁶ | 13.84 ⁶ | 23.02 ⁶ | 30.82 ⁶ |
| | 24 | 6.65 ⁶ | 9.84 ⁶ | 17.98 ⁶ | 23.90 ⁶ | 8.87 ⁶ | 13.30 ⁶ | 22.44 ⁶ | 30.25 ⁶ |
| 9 | 12 | 7.06 ⁶ | 10.22 ⁶ | 18.23 ⁶ | 24.03 ⁶ | 9.25 ⁶ | 13.66 ⁶ | 22.65 ⁶ | 30.15 ⁶ |
| | 16 | 6.76 ⁶ | 9.90 ⁶ | 17.87 ⁶ | 23.68 ⁶ | 8.93 ⁶ | 13.31 ⁶ | 22.28 ⁶ | 29.78 ⁶ |
| | 24 | 6.16 ⁶ | 9.28 ⁶ | 17.16 ⁶ | 23.00 ⁶ | 8.30 ⁶ | 12.62 ⁶ | 21.53 ⁶ | 29.05 ⁶ |
| 10 | 12 | 6.71 ⁶ | 9.80 ⁶ | 17.55 ⁶ | 23.25 ⁶ | 8.83 ⁶ | 13.13 ⁶ | 21.91 ⁶ | 29.06 ⁶ |
| | 16 | 6.34 ⁶ | 9.41 ⁶ | 17.10 ⁶ | 22.81 ⁶ | 8.44 ⁶ | 12.69 ⁶ | 21.43 ⁶ | 28.60 ⁶ |
| | 24 | 5.61 ⁶ | 8.64 ⁶ | 16.21 ⁶ | 21.96 ⁶ | 7.67 ⁶ | 11.84 ⁶ | 20.50 ⁶ | 27.68 ⁶ |
| 12 | 12 | 5.90 ⁶ | 8.82 ⁶ | 15.91 ⁶ | 21.38 ⁶ | 7.85 ⁶ | 11.88 ⁶ | 20.15 ⁶ | 26.48 ⁶ |
| | 16 | 5.38 ⁶ | 8.27 ⁶ | 15.26 ⁶ | 20.74 ⁶ | 7.30 ⁶ | 11.26 ⁶ | 19.45 ⁶ | 25.80 ⁶ |
| | 24 | 4.40 ⁶ | 7.20 ⁶ | 14.01 ⁶ | 19.50 ⁶ | 6.25 ⁶ | 10.07 ⁶ | 18.11 ⁶ | 24.50 ⁶ |
| 14 | 12 | 4.97 ⁶ | 7.70 ⁶ | 13.99 ⁶ | 19.20 ⁶ | 6.73 ⁶ | 10.41 ⁶ | 17.96 ⁶ | 23.49 ⁶ |
| | 16 | 4.32 ⁵ | 6.98 ⁶ | 13.14 ⁶ | 18.34 ⁶ | 6.03 ⁶ | 9.61 ⁶ | 17.04 ⁶ | 22.58 ⁶ |
| | 24 | 3.12 ³ | 5.64 ⁵ | 11.57 ⁶ | 16.72 ⁶ | 4.73 ⁴ | 8.12 ⁵ | 15.31 ⁶ | 20.89 ⁶ |
| 16 | 12 | 3.99 ⁵ | 6.48 ⁶ | 11.95 ⁶ | 16.55 ⁶ | 5.55 ⁶ | 8.83 ⁶ | 15.28 ⁶ | 20.26 ⁶ |
| | 16 | 3.25 ³ | 5.63 ⁵ | 10.95 ⁶ | 15.52 ⁶ | 4.74 ⁴ | 7.88 ⁵ | 14.19 ⁶ | 19.17 ⁶ |
| | 24 | 1.89 ² | 4.10 ³ | 9.16 ⁴ | 13.65 ⁵ | 3.28 ³ | 6.18 ³ | 12.23 ⁵ | 17.21 ⁶ |

Notes:
 • ¹ Deflection meets L/120 • ³ Deflection meets L/360 • ⁵ Deflection meets L/600 • Axial Load Multiplier = 1 • Lateral Load Multiplier - Strength = 1 • * h/t > 200, stiffeners are required at supports
 • ² Deflection meets L/240 • ⁴ Deflection meets L/480 • ⁶ Deflection meets L/720 • KyLy & KtLt = 48 • Lateral Load Multiplier - Deflection = 1.0



| Wall Ht. (ft) | Spacing (in) o.c. | 800S137-mils (Fy) | | | | | 800S162-mils (Fy) | | | | | |
|------------------|----------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 1.38* ⁶ | 2.11 ⁶ | 3.31 ⁶ | 4.50 ⁶ | 6.98 ⁶ | 2.00* ⁶ | 2.98 ⁶ | 5.09 ⁶ | 6.92 ⁶ | 10.93 ⁶ | 14.02 ⁶ |
| | 16 | 1.24* ⁶ | 1.98 ⁶ | 3.21 ⁶ | 4.40 ⁶ | 6.89 ⁶ | 1.84* ⁶ | 2.82 ⁶ | 4.95 ⁶ | 6.78 ⁶ | 10.80 ⁶ | 13.91 ⁶ |
| | 24 | 0.97* ⁶ | 1.72 ⁶ | 3.00 ⁶ | 4.20 ⁶ | 6.70 ⁶ | 1.52* ⁶ | 2.52 ⁶ | 4.67 ⁶ | 6.51 ⁶ | 10.53 ⁶ | 13.67 ⁶ |
| 9 | 12 | 1.27* ⁶ | 2.01 ⁶ | 3.22 ⁶ | 4.42 ⁶ | 6.90 ⁶ | 1.87* ⁶ | 2.85 ⁶ | 4.97 ⁶ | 6.80 ⁶ | 10.82 ⁶ | 13.92 ⁶ |
| | 16 | 1.09* ⁶ | 1.84 ⁶ | 3.09 ⁶ | 4.29 ⁶ | 6.78 ⁶ | 1.66* ⁶ | 2.65 ⁶ | 4.79 ⁶ | 6.62 ⁶ | 10.64 ⁶ | 13.77 ⁶ |
| | 24 | 0.75* ⁶ | 1.51 ⁶ | 2.82 ⁶ | 4.03 ⁶ | 6.54 ⁶ | 1.26* ⁶ | 2.26 ⁶ | 4.44 ⁶ | 6.27 ⁶ | 10.30 ⁶ | 13.47 ⁶ |
| 10 | 12 | 1.14* ⁶ | 1.88 ⁶ | 3.12 ⁶ | 4.32 ⁶ | 6.81 ⁶ | 1.72* ⁶ | 2.70 ⁶ | 4.84 ⁶ | 6.66 ⁶ | 10.68 ⁶ | 13.80 ⁶ |
| | 16 | 0.93* ⁶ | 1.68 ⁶ | 2.96 ⁶ | 4.16 ⁶ | 6.66 ⁶ | 1.47* ⁶ | 2.46 ⁶ | 4.61 ⁶ | 6.44 ⁶ | 10.46 ⁶ | 13.61 ⁶ |
| | 24 | 0.52* ⁶ | 1.28 ⁶ | 2.63 ⁶ | 3.84 ⁶ | 6.36 ⁶ | 0.97* ⁶ | 1.98 ⁶ | 4.17 ⁶ | 6.01 ⁶ | 10.03 ⁶ | 13.23 ⁶ |
| 12 | 12 | 0.85* ⁶ | 1.60 ⁶ | 2.89 ⁶ | 4.09 ⁶ | 6.59 ⁶ | 1.37* ⁶ | 2.36 ⁶ | 4.51 ⁶ | 6.34 ⁶ | 10.35 ⁶ | 13.51 ⁶ |
| | 16 | 0.56* ⁶ | 1.31 ⁶ | 2.65 ⁶ | 3.86 ⁶ | 6.37 ⁶ | 1.02* ⁶ | 2.01 ⁶ | 4.18 ⁶ | 6.02 ⁶ | 10.03 ⁶ | 13.22 ⁶ |
| | 24 | 0.00* ⁶ | 0.75 ⁶ | 2.17 ⁶ | 3.40 ⁶ | 5.92 ⁶ | 0.33* ⁶ | 1.34 ⁶ | 3.55 ⁶ | 5.38 ⁶ | 9.39 ⁶ | 12.66 ⁶ |
| 14 | 12 | 0.52* ⁶ | 1.27 ⁶ | 2.60 ⁶ | 3.81 ⁶ | 6.31 ⁶ | 0.97* ⁶ | 1.96 ⁶ | 4.11 ⁶ | 5.93 ⁶ | 9.93 ⁶ | 13.12 ⁶ |
| | 16 | 0.14* ⁶ | 0.89 ⁶ | 2.28 ⁶ | 3.49 ⁶ | 6.00 ⁶ | 0.51* ⁶ | 1.49 ⁶ | 3.66 ⁶ | 5.49 ⁶ | 9.48 ⁶ | 12.72 ⁶ |
| | 24 | 0.00* ⁶ | 0.16 ⁵ | 1.64 ⁶ | 2.87 ⁶ | 5.39 ⁶ | 0.00* ⁶ | 0.62 ⁶ | 2.81 ⁶ | 4.63 ⁶ | 8.60 ⁶ | 11.92 ⁶ |
| 16 | 12 | 0.17* ⁵ | 0.90 ⁶ | 2.27 ⁶ | 3.47 ⁶ | 5.97 ⁶ | 0.53* ⁶ | 1.50 ⁶ | 3.63 ⁶ | 5.44 ⁶ | 9.40 ⁶ | 12.63 ⁶ |
| | 16 | 0.00* ⁶ | 0.42 ⁵ | 1.85 ⁶ | 3.06 ⁶ | 5.56 ⁶ | 0.00* ⁶ | 0.93 ⁶ | 3.07 ⁶ | 4.86 ⁶ | 8.79 ⁶ | 12.08 ⁶ |
| | 24 | 0.00* ⁶ | 0.00 | 1.06 ⁴ | 2.27 ⁵ | 4.77 ⁶ | 0.00* ⁶ | 0.00 | 2.01 ⁵ | 3.78 ⁶ | 7.65 ⁶ | 11.02 ⁶ |

| Wall Ht. (ft) | Spacing (in) o.c. | 800S200-mils (Fy) | | | | | 800S250-mils (Fy) | | | | | |
|------------------|----------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 2.55* ⁶ | 4.03 ⁶ | 7.31 ⁶ | 9.89 ⁶ | 15.60 ⁶ | 20.09 ⁶ | 4.44 ⁶ | 7.74 ⁶ | 11.34 ⁶ | 19.32 ⁶ | 25.41 ⁶ |
| | 16 | 2.37* ⁶ | 3.85 ⁶ | 7.14 ⁶ | 9.73 ⁶ | 15.45 ⁶ | 19.94 ⁶ | 4.25 ⁶ | 7.56 ⁶ | 11.15 ⁶ | 19.14 ⁶ | 25.23 ⁶ |
| | 24 | 2.03* ⁶ | 3.49 ⁶ | 6.78 ⁶ | 9.41 ⁶ | 15.14 ⁶ | 19.64 ⁶ | 3.88 ⁶ | 7.20 ⁶ | 10.78 ⁶ | 18.77 ⁶ | 24.85 ⁶ |
| 9 | 12 | 2.40* ⁶ | 3.88 ⁶ | 7.16 ⁶ | 9.75 ⁶ | 15.47 ⁶ | 19.96 ⁶ | 4.27 ⁶ | 7.55 ⁶ | 11.14 ⁶ | 19.08 ⁶ | 25.16 ⁶ |
| | 16 | 2.18* ⁶ | 3.65 ⁶ | 6.93 ⁶ | 9.54 ⁶ | 15.27 ⁶ | 19.76 ⁶ | 4.03 ⁶ | 7.33 ⁶ | 10.89 ⁶ | 18.84 ⁶ | 24.92 ⁶ |
| | 24 | 1.75* ⁶ | 3.20 ⁶ | 6.48 ⁶ | 9.13 ⁶ | 14.87 ⁶ | 19.37 ⁶ | 3.56 ⁶ | 6.87 ⁶ | 10.41 ⁶ | 18.36 ⁶ | 24.44 ⁶ |
| 10 | 12 | 2.24* ⁶ | 3.71 ⁶ | 6.98 ⁶ | 9.59 ⁶ | 15.31 ⁶ | 19.80 ⁶ | 4.08 ⁶ | 7.34 ⁶ | 10.90 ⁶ | 18.78 ⁶ | 24.77 ⁶ |
| | 16 | 1.97* ⁶ | 3.42 ⁶ | 6.70 ⁶ | 9.33 ⁶ | 15.05 ⁶ | 19.55 ⁶ | 3.78 ⁶ | 7.05 ⁶ | 10.59 ⁶ | 18.48 ⁶ | 24.47 ⁶ |
| | 24 | 1.43* ⁶ | 2.86 ⁶ | 6.13 ⁶ | 8.81 ⁶ | 14.55 ⁶ | 19.05 ⁶ | 3.20 ⁶ | 6.49 ⁶ | 9.99 ⁶ | 17.88 ⁶ | 23.87 ⁶ |
| 12 | 12 | 1.86* ⁶ | 3.30 ⁶ | 6.55 ⁶ | 9.18 ⁶ | 14.91 ⁶ | 19.39 ⁶ | 3.62 ⁶ | 6.81 ⁶ | 10.30 ⁶ | 18.03 ⁶ | 23.74 ⁶ |
| | 16 | 1.48* ⁶ | 2.89 ⁶ | 6.13 ⁶ | 8.80 ⁶ | 14.53 ⁶ | 19.01 ⁶ | 3.20 ⁶ | 6.40 ⁶ | 9.85 ⁶ | 17.58 ⁶ | 23.29 ⁶ |
| | 24 | 0.73* ⁶ | 2.10 ⁶ | 5.32 ⁶ | 8.04 ⁶ | 13.78 ⁶ | 18.26 ⁶ | 2.38 ⁶ | 5.60 ⁶ | 8.99 ⁶ | 16.70 ⁶ | 22.40 ⁶ |
| 14 | 12 | 1.40* ⁶ | 2.78 ⁶ | 5.93 ⁶ | 8.61 ⁶ | 14.38 ⁶ | 18.85 ⁶ | 3.08 ⁶ | 6.15 ⁶ | 9.48 ⁶ | 16.94 ⁶ | 22.34 ⁶ |
| | 16 | 0.91* ⁶ | 2.24 ⁶ | 5.37 ⁶ | 8.08 ⁶ | 13.83 ⁶ | 18.30 ⁶ | 2.53 ⁶ | 5.61 ⁶ | 8.89 ⁶ | 16.32 ⁶ | 21.71 ⁶ |
| | 24 | 0.00* ⁶ | 1.22 ⁶ | 4.30 ⁶ | 7.05 ⁶ | 12.79 ⁶ | 17.23 ⁶ | 1.47 ⁶ | 4.57 ⁶ | 7.74 ⁶ | 15.13 ⁶ | 20.50 ⁶ |
| 16 | 12 | 0.91* ⁶ | 2.18 ⁶ | 5.12 ⁶ | 7.71 ⁶ | 13.34 ⁶ | 17.90 ⁶ | 2.47 ⁶ | 5.39 ⁶ | 8.48 ⁶ | 15.47 ⁶ | 20.59 ⁶ |
| | 16 | 0.31* ⁵ | 1.53 ⁶ | 4.43 ⁶ | 7.04 ⁶ | 12.64 ⁶ | 17.16 ⁶ | 1.79 ⁵ | 4.71 ⁶ | 7.73 ⁶ | 14.69 ⁶ | 19.78 ⁶ |
| | 24 | 0.00* ⁶ | 0.32 ⁴ | 3.15 ⁶ | 5.77 ⁶ | 11.29 ⁶ | 15.75 ⁶ | 0.53 ³ | 3.44 ⁴ | 6.32 ⁵ | 13.19 ⁶ | 18.23 ⁶ |

| Wall Ht. (ft) | Spacing (in) o.c. | 800S300-mils (Fy) | | | | 800S350-mils (Fy) | | | |
|------------------|----------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 8.08 ⁶ | 11.62 ⁶ | 21.04 ⁶ | 27.70 ⁶ | 10.50 ⁶ | 15.28 ⁶ | 25.44 ⁶ | 34.02 ⁶ |
| | 16 | 7.90 ⁶ | 11.43 ⁶ | 20.84 ⁶ | 27.50 ⁶ | 10.31 ⁶ | 15.08 ⁶ | 25.23 ⁶ | 33.82 ⁶ |
| | 24 | 7.54 ⁶ | 11.06 ⁶ | 20.42 ⁶ | 27.12 ⁶ | 9.93 ⁶ | 14.68 ⁶ | 24.81 ⁶ | 33.41 ⁶ |
| 9 | 12 | 7.88 ⁶ | 11.39 ⁶ | 20.71 ⁶ | 27.32 ⁶ | 10.26 ⁶ | 15.01 ⁶ | 25.12 ⁶ | 33.60 ⁶ |
| | 16 | 7.65 ⁶ | 11.15 ⁶ | 20.44 ⁶ | 27.07 ⁶ | 10.02 ⁶ | 14.75 ⁶ | 24.85 ⁶ | 33.34 ⁶ |
| | 24 | 7.19 ⁶ | 10.68 ⁶ | 19.90 ⁶ | 26.57 ⁶ | 9.54 ⁶ | 14.24 ⁶ | 24.31 ⁶ | 32.81 ⁶ |
| 10 | 12 | 7.65 ⁶ | 11.13 ⁶ | 20.30 ⁶ | 26.88 ⁶ | 9.99 ⁶ | 14.69 ⁶ | 24.74 ⁶ | 33.10 ⁶ |
| | 16 | 7.37 ⁶ | 10.83 ⁶ | 19.97 ⁶ | 26.56 ⁶ | 9.69 ⁶ | 14.37 ⁶ | 24.40 ⁶ | 32.77 ⁶ |
| | 24 | 6.81 ⁶ | 10.24 ⁶ | 19.30 ⁶ | 25.93 ⁶ | 9.10 ⁶ | 13.74 ⁶ | 23.73 ⁶ | 32.11 ⁶ |
| 12 | 12 | 7.11 ⁶ | 10.48 ⁶ | 19.29 ⁶ | 25.74 ⁶ | 9.33 ⁶ | 13.92 ⁶ | 23.61 ⁶ | 31.88 ⁶ |
| | 16 | 6.70 ⁶ | 10.05 ⁶ | 18.80 ⁶ | 25.27 ⁶ | 8.90 ⁶ | 13.45 ⁶ | 23.11 ⁶ | 31.39 ⁶ |
| | 24 | 5.90 ⁶ | 9.21 ⁶ | 17.83 ⁶ | 24.34 ⁶ | 8.06 ⁶ | 12.54 ⁶ | 22.13 ⁶ | 30.41 ⁶ |
| 14 | 12 | 6.44 ⁶ | 9.67 ⁶ | 17.99 ⁶ | 24.26 ⁶ | 8.54 ⁶ | 12.95 ⁶ | 22.22 ⁶ | 30.15 ⁶ |
| | 16 | 5.89 ⁶ | 9.09 ⁶ | 17.32 ⁶ | 23.61 ⁶ | 7.97 ⁶ | 12.31 ⁶ | 21.53 ⁶ | 29.46 ⁶ |
| | 24 | 4.84 ⁶ | 7.97 ⁶ | 16.01 ⁶ | 22.34 ⁶ | 6.86 ⁶ | 11.09 ⁶ | 20.19 ⁶ | 28.11 ⁶ |
| 16 | 12 | 5.67 ⁶ | 8.73 ⁶ | 16.45 ⁶ | 22.49 ⁶ | 7.64 ⁶ | 11.80 ⁶ | 20.60 ⁶ | 27.84 ⁶ |
| | 16 | 4.99 ⁶ | 7.99 ⁶ | 15.59 ⁶ | 21.64 ⁶ | 6.92 ⁶ | 10.99 ⁶ | 19.71 ⁶ | 26.94 ⁶ |
| | 24 | 3.70 ⁶ | 6.61 ⁶ | 13.95 ⁶ | 20.02 ⁶ | 5.55 ⁵ | 9.47 ⁶ | 17.99 ⁶ | 25.22 ⁶ |

Notes:
 • ¹ Deflection meets L/120 • ³ Deflection meets L/360 • ⁵ Deflection meets L/600 • Axial Load Multiplier = 1 • Lateral Load Multiplier - Strength = 1 • * h/t > 200, stiffeners are required at supports
 • ² Deflection meets L/240 • ⁴ Deflection meets L/480 • ⁶ Deflection meets L/720 • KyLy & KtLt = 48 • Lateral Load Multiplier - Deflection = 1.0



Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 25psf Lateral Load

| Wall | Spacing | 1000S162-mils (Fy) | | | | | 1000S200-mils (Fy) | | | | |
|------|---------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) |
| 8 | 12 | 2.98 ⁶ | 4.95 ⁶ | 6.70 ⁶ | 10.62 ⁶ | 13.64 ⁶ | 4.10 ⁶ | 7.27 ⁶ | 9.78 ⁶ | 15.47 ⁶ | 20.01 ⁶ |
| | 16 | 2.86 ⁶ | 4.84 ⁶ | 6.60 ⁶ | 10.53 ⁶ | 13.54 ⁶ | 3.95 ⁶ | 7.13 ⁶ | 9.65 ⁶ | 15.34 ⁶ | 19.88 ⁶ |
| | 24 | 2.62 ⁶ | 4.62 ⁶ | 6.39 ⁶ | 10.33 ⁶ | 13.35 ⁶ | 3.67 ⁶ | 6.86 ⁶ | 9.39 ⁶ | 15.09 ⁶ | 19.63 ⁶ |
| 9 | 12 | 2.88 ⁶ | 4.86 ⁶ | 6.62 ⁶ | 10.54 ⁶ | 13.56 ⁶ | 3.98 ⁶ | 7.16 ⁶ | 9.67 ⁶ | 15.36 ⁶ | 19.90 ⁶ |
| | 16 | 2.73 ⁶ | 4.72 ⁶ | 6.48 ⁶ | 10.42 ⁶ | 13.44 ⁶ | 3.80 ⁶ | 6.98 ⁶ | 9.50 ⁶ | 15.20 ⁶ | 19.74 ⁶ |
| | 24 | 2.42 ⁶ | 4.45 ⁶ | 6.23 ⁶ | 10.17 ⁶ | 13.19 ⁶ | 3.44 ⁶ | 6.64 ⁶ | 9.17 ⁶ | 14.88 ⁶ | 19.41 ⁶ |
| 10 | 12 | 2.77 ⁶ | 4.76 ⁶ | 6.52 ⁶ | 10.45 ⁶ | 13.47 ⁶ | 3.85 ⁶ | 7.03 ⁶ | 9.54 ⁶ | 15.24 ⁶ | 19.78 ⁶ |
| | 16 | 2.58 ⁶ | 4.59 ⁶ | 6.36 ⁶ | 10.30 ⁶ | 13.31 ⁶ | 3.63 ⁶ | 6.81 ⁶ | 9.34 ⁶ | 15.04 ⁶ | 19.57 ⁶ |
| | 24 | 2.20 ⁶ | 4.25 ⁶ | 6.03 ⁶ | 9.98 ⁶ | 13.01 ⁶ | 3.18 ⁶ | 6.38 ⁶ | 8.92 ⁶ | 14.63 ⁶ | 19.17 ⁶ |
| 12 | 12 | 2.51 ⁶ | 4.52 ⁶ | 6.29 ⁶ | 10.23 ⁶ | 13.25 ⁶ | 3.54 ⁶ | 6.72 ⁶ | 9.24 ⁶ | 14.94 ⁶ | 19.48 ⁶ |
| | 16 | 2.24 ⁶ | 4.27 ⁶ | 6.05 ⁶ | 10.00 ⁶ | 13.02 ⁶ | 3.22 ⁶ | 6.40 ⁶ | 8.94 ⁶ | 14.64 ⁶ | 19.18 ⁶ |
| | 24 | 1.69 ⁶ | 3.79 ⁶ | 5.58 ⁶ | 9.55 ⁶ | 12.57 ⁶ | 2.58 ⁶ | 5.78 ⁶ | 8.33 ⁶ | 14.05 ⁶ | 18.58 ⁶ |
| 14 | 12 | 2.20 ⁶ | 4.23 ⁶ | 6.01 ⁶ | 9.95 ⁶ | 12.97 ⁶ | 3.17 ⁶ | 6.34 ⁶ | 8.87 ⁶ | 14.57 ⁶ | 19.10 ⁶ |
| | 16 | 1.83 ⁶ | 3.90 ⁶ | 5.68 ⁶ | 9.65 ⁶ | 12.66 ⁶ | 2.73 ⁶ | 5.90 ⁶ | 8.45 ⁶ | 14.15 ⁶ | 18.67 ⁶ |
| | 24 | 1.11 ⁶ | 3.23 ⁶ | 5.04 ⁶ | 9.01 ⁶ | 12.03 ⁶ | 1.88 ⁶ | 5.05 ⁶ | 7.61 ⁶ | 13.32 ⁶ | 17.83 ⁶ |
| 16 | 12 | 1.84 ⁶ | 3.89 ⁶ | 5.67 ⁶ | 9.62 ⁶ | 12.63 ⁶ | 2.74 ⁶ | 5.89 ⁶ | 8.42 ⁶ | 14.11 ⁶ | 18.62 ⁶ |
| | 16 | 1.37 ⁶ | 3.45 ⁶ | 5.24 ⁶ | 9.20 ⁶ | 12.21 ⁶ | 2.18 ⁶ | 5.32 ⁶ | 7.86 ⁶ | 13.55 ⁶ | 18.05 ⁶ |
| | 24 | 0.45 ⁴ | 2.60 ⁶ | 4.41 ⁶ | 8.37 ⁶ | 11.38 ⁶ | 1.11 ⁵ | 4.22 ⁶ | 6.77 ⁶ | 12.45 ⁶ | 16.92 ⁶ |

| Wall | Spacing | 1000S250-mils (Fy) | | | | 1000S300-mils (Fy) | | | | |
|------|---------|--------------------|-------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) |
| 8 | 12 | 4.60 ⁶ | 7.93 ⁶ | 11.56 ⁶ | 19.57 ⁶ | 25.61 ⁶ | 8.42 ⁶ | 12.10 ⁶ | 22.07 ⁶ | 28.99 ⁶ |
| | 16 | 4.45 ⁶ | 7.79 ⁶ | 11.41 ⁶ | 19.43 ⁶ | 25.47 ⁶ | 8.27 ⁶ | 11.95 ⁶ | 21.91 ⁶ | 28.84 ⁶ |
| | 24 | 4.15 ⁶ | 7.51 ⁶ | 11.12 ⁶ | 19.15 ⁶ | 25.19 ⁶ | 7.99 ⁶ | 11.65 ⁶ | 21.58 ⁶ | 28.54 ⁶ |
| 9 | 12 | 4.48 ⁶ | 7.81 ⁶ | 11.44 ⁶ | 19.45 ⁶ | 25.49 ⁶ | 8.28 ⁶ | 11.94 ⁶ | 21.86 ⁶ | 28.86 ⁶ |
| | 16 | 4.29 ⁶ | 7.63 ⁶ | 11.25 ⁶ | 19.27 ⁶ | 25.31 ⁶ | 8.10 ⁶ | 11.75 ⁶ | 21.65 ⁶ | 28.67 ⁶ |
| | 24 | 3.91 ⁶ | 7.27 ⁶ | 10.88 ⁶ | 18.91 ⁶ | 24.96 ⁶ | 7.73 ⁶ | 11.38 ⁶ | 21.23 ⁶ | 28.28 ⁶ |
| 10 | 12 | 4.34 ⁶ | 7.68 ⁶ | 11.30 ⁶ | 19.31 ⁶ | 25.35 ⁶ | 8.12 ⁶ | 11.77 ⁶ | 21.62 ⁶ | 28.60 ⁶ |
| | 16 | 4.10 ⁶ | 7.45 ⁶ | 11.06 ⁶ | 19.09 ⁶ | 25.13 ⁶ | 7.89 ⁶ | 11.53 ⁶ | 21.35 ⁶ | 28.36 ⁶ |
| | 24 | 3.63 ⁶ | 7.01 ⁶ | 10.60 ⁶ | 18.64 ⁶ | 24.69 ⁶ | 7.44 ⁶ | 11.06 ⁶ | 20.83 ⁶ | 27.87 ⁶ |
| 12 | 12 | 4.01 ⁶ | 7.36 ⁶ | 10.96 ⁶ | 18.98 ⁶ | 25.02 ⁶ | 7.73 ⁶ | 11.33 ⁶ | 20.98 ⁶ | 27.92 ⁶ |
| | 16 | 3.67 ⁶ | 7.03 ⁶ | 10.61 ⁶ | 18.64 ⁶ | 24.68 ⁶ | 7.40 ⁶ | 10.99 ⁶ | 20.60 ⁶ | 27.56 ⁶ |
| | 24 | 3.00 ⁶ | 6.39 ⁶ | 9.93 ⁶ | 17.98 ⁶ | 24.03 ⁶ | 6.75 ⁶ | 10.31 ⁶ | 19.84 ⁶ | 26.84 ⁶ |
| 14 | 12 | 3.60 ⁶ | 6.93 ⁶ | 10.51 ⁶ | 18.55 ⁶ | 24.59 ⁶ | 7.25 ⁶ | 10.77 ⁶ | 20.14 ⁶ | 26.99 ⁶ |
| | 16 | 3.14 ⁶ | 6.49 ⁶ | 10.04 ⁶ | 18.08 ⁶ | 24.12 ⁶ | 6.80 ⁶ | 10.30 ⁶ | 19.61 ⁶ | 26.48 ⁶ |
| | 24 | 2.25 ⁶ | 5.61 ⁶ | 9.10 ⁶ | 17.16 ⁶ | 23.19 ⁶ | 5.92 ⁶ | 9.39 ⁶ | 18.56 ⁶ | 25.49 ⁶ |
| 16 | 12 | 3.12 ⁶ | 6.37 ⁶ | 9.88 ⁶ | 17.82 ⁶ | 23.82 ⁶ | 6.67 ⁶ | 10.08 ⁶ | 19.06 ⁶ | 25.78 ⁶ |
| | 16 | 2.53 ⁶ | 5.80 ⁶ | 9.26 ⁶ | 17.20 ⁶ | 23.19 ⁶ | 6.09 ⁶ | 9.48 ⁶ | 18.37 ⁶ | 25.12 ⁶ |
| | 24 | 1.14 ⁶ | 4.69 ⁶ | 8.05 ⁶ | 15.97 ⁶ | 21.95 ⁶ | 4.98 ⁶ | 8.30 ⁶ | 17.02 ⁶ | 23.82 ⁶ |

| Wall | Spacing | 1000S350-mils (Fy) | | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) |
| 8 | 12 | 10.93 ⁶ | 15.85 ⁶ | 26.31 ⁶ | 35.47 ⁶ |
| | 16 | 10.78 ⁶ | 15.69 ⁶ | 26.15 ⁶ | 35.31 ⁶ |
| | 24 | 10.48 ⁶ | 15.38 ⁶ | 25.82 ⁶ | 34.99 ⁶ |
| 9 | 12 | 10.76 ⁶ | 15.67 ⁶ | 26.10 ⁶ | 35.21 ⁶ |
| | 16 | 10.57 ⁶ | 15.47 ⁶ | 25.89 ⁶ | 35.01 ⁶ |
| | 24 | 10.19 ⁶ | 15.06 ⁶ | 25.48 ⁶ | 34.60 ⁶ |
| 10 | 12 | 10.58 ⁶ | 15.45 ⁶ | 25.85 ⁶ | 34.89 ⁶ |
| | 16 | 10.34 ⁶ | 15.20 ⁶ | 25.59 ⁶ | 34.64 ⁶ |
| | 24 | 9.87 ⁶ | 14.71 ⁶ | 25.08 ⁶ | 34.14 ⁶ |
| 12 | 12 | 10.11 ⁶ | 14.92 ⁶ | 25.24 ⁶ | 34.09 ⁶ |
| | 16 | 9.77 ⁶ | 14.56 ⁶ | 24.86 ⁶ | 33.72 ⁶ |
| | 24 | 9.09 ⁶ | 13.84 ⁶ | 24.10 ⁶ | 32.98 ⁶ |
| 14 | 12 | 9.54 ⁶ | 14.25 ⁶ | 24.44 ⁶ | 33.05 ⁶ |
| | 16 | 9.07 ⁶ | 13.76 ⁶ | 23.91 ⁶ | 32.53 ⁶ |
| | 24 | 8.16 ⁶ | 12.77 ⁶ | 22.86 ⁶ | 31.50 ⁶ |
| 16 | 12 | 8.86 ⁶ | 13.45 ⁶ | 23.30 ⁶ | 31.79 ⁶ |
| | 16 | 8.26 ⁶ | 12.80 ⁶ | 22.60 ⁶ | 31.10 ⁶ |
| | 24 | 7.09 ⁶ | 11.53 ⁶ | 21.23 ⁶ | 29.74 ⁶ |

Notes:

- ¹ Deflection meets L/120 • ³ Deflection meets L/360 • ⁵ Deflection meets L/600 • Axial Load Multiplier = 1 • Lateral Load Multiplier - Strength = 1 • * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240 • ⁴ Deflection meets L/480 • ⁶ Deflection meets L/720 • KyLy & KtLt = 48 • Lateral Load Multiplier - Deflection = 1.0

Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 25psf Lateral Load



| Wall | Spacing | 1200S162-mils (Fy) | | | 1200S200-mils (Fy) | | |
|------|---------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) |
| 8 | 12 | 4.75* | 6.43 ⁶ | 10.19 ⁶ | 6.45* | 9.41 ⁶ | 15.22 ⁶ |
| | 16 | 4.66* | 6.35 ⁶ | 10.12 ⁶ | 6.34* | 9.31 ⁶ | 15.12 ⁶ |
| | 24 | 4.49* | 6.18 ⁶ | 9.96 ⁶ | 6.14* | 9.10 ⁶ | 14.92 ⁶ |
| 9 | 12 | 4.68* | 6.36 ⁶ | 10.13 ⁶ | 6.37* | 9.33 ⁶ | 15.13 ⁶ |
| | 16 | 4.56* | 6.26 ⁶ | 10.03 ⁶ | 6.25* | 9.19 ⁶ | 15.01 ⁶ |
| | 24 | 4.34* | 6.05 ⁶ | 9.84 ⁶ | 6.00* | 8.93 ⁶ | 14.75 ⁶ |
| 10 | 12 | 4.60* | 6.29 ⁶ | 10.06 ⁶ | 6.28* | 9.23 ⁶ | 15.04 ⁶ |
| | 16 | 4.46* | 6.16 ⁶ | 9.94 ⁶ | 6.13* | 9.06 ⁶ | 14.88 ⁶ |
| | 24 | 4.19* | 5.90 ⁶ | 9.70 ⁶ | 5.82* | 8.74 ⁶ | 14.56 ⁶ |
| 12 | 12 | 4.41* | 6.11 ⁶ | 9.89 ⁶ | 6.08* | 9.00 ⁶ | 14.82 ⁶ |
| | 16 | 4.21* | 5.92 ⁶ | 9.72 ⁶ | 5.90* | 8.76 ⁶ | 14.58 ⁶ |
| | 24 | 3.81* | 5.54 ⁶ | 9.36 ⁶ | 5.42* | 8.28 ⁶ | 14.12 ⁶ |
| 14 | 12 | 4.18* | 5.89 ⁶ | 9.69 ⁶ | 5.84* | 8.72 ⁶ | 14.54 ⁶ |
| | 16 | 3.91* | 5.63 ⁶ | 9.44 ⁶ | 5.54* | 8.39 ⁶ | 14.22 ⁶ |
| | 24 | 3.37* | 5.12 ⁶ | 8.96 ⁶ | 4.94* | 7.73 ⁶ | 13.57 ⁶ |
| 16 | 12 | 3.92* | 5.64 ⁶ | 9.45 ⁶ | 5.56* | 8.39 ⁶ | 14.21 ⁶ |
| | 16 | 3.56* | 5.30 ⁶ | 9.12 ⁶ | 5.17* | 7.95 ⁶ | 13.78 ⁶ |
| | 24 | 2.86* | 4.63 ⁶ | 8.49 ⁶ | 4.38* | 7.09 ⁶ | 12.92 ⁶ |

| Wall | Spacing | 1200S250-mils (Fy) | | | 1200S300-mils (Fy) | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) |
| 8 | 12 | 7.44* | 10.84 ⁶ | 19.20 ⁶ | 8.52* | 11.94 ⁶ | 21.16 ⁶ |
| | 16 | 7.33* | 10.73 ⁶ | 19.08 ⁶ | 8.40* | 11.82 ⁶ | 21.03 ⁶ |
| | 24 | 7.12* | 10.50 ⁶ | 18.85 ⁶ | 8.16* | 11.58 ⁶ | 20.78 ⁶ |
| 9 | 12 | 7.36* | 10.75 ⁶ | 19.11 ⁶ | 8.10* | 11.84 ⁶ | 21.05 ⁶ |
| | 16 | 7.22* | 10.60 ⁶ | 18.95 ⁶ | 7.95* | 11.69 ⁶ | 20.89 ⁶ |
| | 24 | 6.95* | 10.32 ⁶ | 18.65 ⁶ | 7.66* | 11.39 ⁶ | 20.57 ⁶ |
| 10 | 12 | 7.26* | 10.64 ⁶ | 18.99 ⁶ | 7.99* | 11.73 ⁶ | 20.93 ⁶ |
| | 16 | 7.09* | 10.46 ⁶ | 18.80 ⁶ | 7.81* | 11.54 ⁶ | 20.73 ⁶ |
| | 24 | 6.76* | 10.11 ⁶ | 18.42 ⁶ | 7.45* | 11.17 ⁶ | 20.33 ⁶ |
| 12 | 12 | 7.04* | 10.39 ⁶ | 18.72 ⁶ | 7.74* | 11.47 ⁶ | 20.65 ⁶ |
| | 16 | 6.80* | 10.13 ⁶ | 18.44 ⁶ | 7.48* | 11.19 ⁶ | 20.35 ⁶ |
| | 24 | 6.32* | 9.62 ⁶ | 17.89 ⁶ | 6.95* | 10.65 ⁶ | 19.77 ⁶ |
| 14 | 12 | 6.78* | 10.09 ⁶ | 18.39 ⁶ | 7.44* | 11.15 ⁶ | 20.30 ⁶ |
| | 16 | 6.46* | 9.73 ⁶ | 18.00 ⁶ | 7.08* | 10.77 ⁶ | 19.89 ⁶ |
| | 24 | 5.81* | 9.02 ⁶ | 17.23 ⁶ | 6.36* | 10.02 ⁶ | 19.07 ⁶ |
| 16 | 12 | 6.48* | 9.73 ⁶ | 17.99 ⁶ | 7.08* | 10.77 ⁶ | 19.87 ⁶ |
| | 16 | 6.06* | 9.26 ⁶ | 17.47 ⁶ | 6.60* | 10.27 ⁶ | 19.32 ⁶ |
| | 24 | 5.21* | 8.32 ⁶ | 16.44 ⁶ | 5.66* | 9.28 ⁶ | 18.24 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0



Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 30psf Lateral Load

| Wall Ht. (ft) | Spacing (in) o.c. | 250S137-mils (Fy) | | | | | 2250S162-mils (Fy) | | | | |
|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 0.06 ¹ | 0.47 ² | 1.17 ² | 1.74 ³ | 2.99 ⁴ | 0.22 ² | 0.71 ² | 1.51 ³ | 2.16 ³ | 3.54 ⁵ |
| | 16 | 0.00 | 0.19 ¹ | 0.92 ² | 1.48 ² | 2.66 ³ | 0.00 | 0.40 ¹ | 1.24 ² | 1.87 ² | 3.21 ³ |
| | 24 | 0.00 | 0.00 | 0.49 ¹ | 1.00 ¹ | 2.08 ² | 0.00 | 0.00 | 0.77 ¹ | 1.36 ¹ | 2.61 ² |
| 9 | 12 | 0.00 | 0.21 ¹ | 0.85 ¹ | 1.33 ² | 2.32 ³ | 0.00 | 0.41 ¹ | 1.13 ² | 1.68 ² | 2.81 ³ |
| | 16 | 0.00 | 0.00 | 0.60 ¹ | 1.06 ¹ | 1.99 ² | 0.00 | 0.09 ¹ | 0.86 ¹ | 1.38 ² | 2.46 ² |
| | 24 | 0.00 | 0.00 | 0.15 | 0.57 ¹ | 1.41 ¹ | 0.00 | 0.00 | 0.37 ¹ | 0.86 ¹ | 1.85 ¹ |
| 10 | 12 | 0.00 | 0.01 ¹ | 0.59 ¹ | 0.99 ¹ | 1.78 ² | 0.00 | 0.16 ¹ | 0.81 ¹ | 1.27 ¹ | 2.20 ² |
| | 16 | 0.00 | 0.00 | 0.33 ¹ | 0.71 ¹ | 1.45 ¹ | 0.00 | 0.00 | 0.54 ¹ | 0.98 ¹ | 1.86 ¹ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.23 | 0.89 ¹ | 0.00 | 0.00 | 0.06 | 0.46 | 1.26 ¹ |
| 12 | 12 | 0.00 | 0.00 | 0.20 | 0.48 | 1.00 ¹ | 0.00 | 0.00 | 0.35 | 0.67 ¹ | 1.31 ¹ |
| | 16 | 0.00 | 0.00 | 0.00 | 0.22 | 0.70 | 0.00 | 0.00 | 0.09 | 0.39 | 0.99 ¹ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 |
| 14 | 12 | 0.00 | 0.00 | 0.00 | 0.15 | 0.52 | 0.00 | 0.00 | 0.05 | 0.29 | 0.74 |
| | 16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.03 | 0.44 |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.04 | 0.37 |
| | 16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Wall Ht. (ft) | Spacing (in) o.c. | 350S162-mils (Fy) | | | | | 350S200-mils (Fy) | | | | |
|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 0.78 ⁶ | 1.49 ⁶ | 2.99 ⁶ | 4.08 ⁶ | 6.51 ⁶ | 1.05 ⁵ | 2.00 ⁶ | 3.82 ⁶ | 5.22 ⁶ | 8.03 ⁶ |
| | 16 | 0.43 ⁴ | 1.11 ⁵ | 2.64 ⁶ | 3.72 ⁶ | 6.15 ⁶ | 0.66 ³ | 1.59 ⁴ | 3.42 ⁶ | 4.83 ⁶ | 7.66 ⁶ |
| | 24 | 0.00 | 0.42 ³ | 1.99 ⁴ | 3.05 ⁶ | 5.47 ⁶ | 0.00 ² | 0.83 ³ | 2.67 ⁴ | 4.08 ⁴ | 6.93 ⁶ |
| 9 | 12 | 0.46 ⁴ | 1.11 ⁷ | 2.48 ⁶ | 3.48 ⁶ | 5.70 ⁶ | 0.68 ³ | 1.56 ⁴ | 3.20 ⁵ | 4.48 ⁶ | 7.07 ⁶ |
| | 16 | 0.07 ³ | 0.69 ⁵ | 2.08 ⁵ | 3.06 ⁶ | 5.28 ⁶ | 0.25 ² | 1.09 ³ | 2.75 ⁴ | 4.03 ⁵ | 6.63 ⁶ |
| | 24 | 0.00 | 0.00 | 1.37 ³ | 2.31 ⁴ | 4.50 ⁵ | 0.00 ¹ | 0.26 ² | 1.92 ² | 3.19 ³ | 5.80 ⁴ |
| 10 | 12 | 0.17 ³ | 0.74 ⁴ | 1.99 ⁵ | 2.88 ⁶ | 4.87 ⁶ | 0.34 ² | 1.13 ³ | 2.59 ⁴ | 3.75 ⁵ | 6.09 ⁶ |
| | 16 | 0.00 | 0.29 ³ | 1.56 ³ | 2.43 ⁴ | 4.41 ⁶ | 0.00 ¹ | 0.63 ² | 2.10 ³ | 3.26 ³ | 5.60 ⁵ |
| | 24 | 0.00 | 0.00 | 0.81 ² | 1.63 ³ | 3.58 ⁴ | 0.00 ¹ | 0.00 ¹ | 1.24 ² | 2.37 ² | 4.70 ³ |
| 12 | 12 | 0.00 | 0.13 ² | 1.13 ² | 1.81 ³ | 3.34 ⁴ | 0.00 ¹ | 0.40 ¹ | 1.53 ² | 2.44 ² | 4.27 ³ |
| | 16 | 0.00 | 0.00 | 0.70 ² | 1.35 ² | 2.86 ³ | 0.00 ¹ | 0.00 ¹ | 1.04 ¹ | 1.94 ² | 3.75 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.56 ¹ | 2.03 ² | 0.00 | 0.00 | 0.20 ¹ | 1.06 ¹ | 2.84 ¹ |
| 14 | 12 | 0.00 | 0.00 | 0.53 ¹ | 1.04 ² | 2.21 ³ | 0.00 | 0.00 ¹ | 0.79 ¹ | 1.49 ¹ | 2.91 ² |
| | 16 | 0.00 | 0.00 | 0.13 ¹ | 0.60 ¹ | 1.75 ² | 0.00 | 0.00 | 0.33 ¹ | 1.01 ¹ | 2.41 ¹ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.96 ¹ | 0.00 | 0.00 | 0.00 | 0.18 | 1.54 ¹ |
| 16 | 12 | 0.00 | 0.00 | 0.13 ¹ | 0.51 ¹ | 1.42 ² | 0.00 | 0.00 | 0.29 ¹ | 0.84 ¹ | 1.95 ¹ |
| | 16 | 0.00 | 0.00 | 0.00 | 0.11 ¹ | 0.99 ¹ | 0.00 | 0.00 | 0.00 | 0.39 ¹ | 1.48 ¹ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 |

| Wall Ht. (ft) | Spacing (in) o.c. | 362S137-mils (Fy) | | | | | 362S162-mils (Fy) | | | | | |
|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 0.56 ² | 1.16 ⁶ | 2.43 ⁶ | 3.44 ⁶ | 5.30 | 0.85 ⁶ | 1.59 ⁶ | 3.17 ⁶ | 4.38 ⁶ | 6.93 ⁶ | 8.78 ⁶ |
| | 16 | 0.24 ⁴ | 0.81 ⁵ | 2.11 ⁶ | 3.10 ⁶ | 4.99 | 0.50 ⁵ | 1.21 ⁶ | 2.82 ⁶ | 4.01 ⁶ | 6.57 ⁶ | 8.39 ⁶ |
| | 24 | 0.00 | 0.18 ³ | 1.52 ⁴ | 2.47 ⁵ | 4.40 | 0.00 | 0.52 ⁴ | 2.16 ⁵ | 3.32 ⁶ | 5.89 ⁶ | 7.66 ⁶ |
| 9 | 12 | 0.28 ⁴ | 0.83 ⁵ | 2.03 ⁶ | 2.94 | 4.95 | 0.53 ⁴ | 1.21 ⁶ | 2.68 ⁶ | 3.77 ⁶ | 6.13 ⁶ | 7.78 ⁶ |
| | 16 | 0.00 | 0.44 ³ | 1.66 ⁴ | 2.55 ⁶ | 4.56 | 0.13 ³ | 0.78 ⁴ | 2.27 ⁵ | 3.34 ⁶ | 5.71 ⁶ | 7.33 ⁶ |
| | 24 | 0.00 | 0.00 | 0.99 ³ | 1.84 ⁵ | 3.83 | 0.00 | 0.02 ³ | 1.54 ³ | 2.57 ⁴ | 4.91 ⁶ | 6.48 ⁵ |
| 10 | 12 | 0.02 ² | 0.51 ³ | 1.62 ⁴ | 2.44 ³ | 4.35 | 0.23 ³ | 0.84 ⁴ | 2.18 ⁵ | 3.15 ⁶ | 5.30 ⁶ | 6.75 ⁶ |
| | 16 | 0.00 ³ | 0.09 ² | 1.22 ³ | 2.01 ⁵ | 3.91 | 0.00 | 0.38 ³ | 1.74 ⁴ | 2.69 ⁵ | 4.82 ⁶ | 6.24 ⁵ |
| | 24 | 0.00 | 0.00 | 0.51 ² | 1.25 ⁴ | 3.10 | 0.00 | 0.00 | 0.96 ² | 1.86 ³ | 3.96 ⁴ | 5.32 ³ |
| 12 | 12 | 0.00 | 0.00 | 0.89 ² | 1.51 ² | 2.99 | 0.00 | 0.20 ² | 1.29 ³ | 2.03 ³ | 3.70 ⁵ | 4.78 ⁴ |
| | 16 | 0.00 | 0.00 | 0.48 ² | 1.06 ³ | 2.52 | 0.00 | 0.00 | 0.84 ² | 1.55 ² | 3.20 ³ | 4.24 ³ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.29 ² | 1.70 | 0.00 | 0.00 | 0.05 ¹ | 0.71 ¹ | 2.32 ² | 3.29 ² |
| 14 | 12 | 0.00 | 0.00 | 0.35 ¹ | 0.82 ¹ | 1.94 | 0.00 | 0.00 | 0.64 ¹ | 1.19 ² | 2.48 ³ | 3.27 ² |
| | 16 | 0.00 | 0.00 | 0.00 | 0.39 ² | 1.49 | 0.00 | 0.00 | 0.21 ¹ | 0.73 ¹ | 2.00 ² | 2.74 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 ¹ | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 1.16 ¹ | 1.86 ² |
| 16 | 12 | 0.00 | 0.00 | 0.00 | 0.34 ¹ | 1.21 | 0.00 | 0.00 | 0.19 ¹ | 0.62 ¹ | 1.62 ² | 2.21 ¹ |
| | 16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.19 ¹ | 1.17 ¹ | 1.73 ¹ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.40 ¹ | 0.90 |

Notes:
 • ¹ Deflection meets L/120 • ³ Deflection meets L/360 • ⁵ Deflection meets L/600 • Axial Load Multiplier = 1 • Lateral Load Multiplier - Strength = 1 • * h/t > 200, stiffeners are required at supports
 • ² Deflection meets L/240 • ⁴ Deflection meets L/480 • ⁶ Deflection meets L/720 • KyLy & KtLt = 48 • Lateral Load Multiplier - Deflection = 1.0



| Wall | Spacing (in) o.c. | 362S200-mils (Fy) | | | | | | 362S250-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 1.13 ⁶ | 2.13 ⁶ | 4.06 ⁶ | 5.58 ⁶ | 8.55 ⁶ | 10.64 ⁶ | 2.48 ⁶ | 4.62 ⁶ | 6.53 ⁶ | 9.99 ⁶ | 12.37 ⁶ |
| | 16 | 0.74 ⁵ | 1.71 ⁶ | 3.65 ⁶ | 5.18 ⁶ | 8.17 ⁶ | 10.24 ⁶ | 2.03 ⁶ | 4.19 ⁶ | 6.08 ⁶ | 9.59 ⁶ | 11.96 ⁶ |
| | 24 | 0.02 ³ | 0.95 ⁵ | 2.89 ⁶ | 4.42 ⁶ | 7.44 ⁶ | 9.48 ⁶ | 1.21 ⁴ | 3.37 ⁵ | 5.23 ⁶ | 8.82 ⁶ | 11.18 ⁶ |
| 9 | 12 | 0.77 ⁵ | 1.68 ⁶ | 3.44 ⁶ | 4.84 ⁶ | 7.59 ⁶ | 9.49 ⁶ | 2.01 ⁵ | 4.00 ⁶ | 5.68 ⁶ | 8.92 ⁶ | 11.11 ⁶ |
| | 16 | 0.32 ⁴ | 1.21 ⁵ | 2.97 ⁶ | 4.37 ⁶ | 7.14 ⁶ | 9.01 ⁶ | 1.49 ⁴ | 3.49 ⁵ | 5.15 ⁶ | 8.44 ⁶ | 10.62 ⁶ |
| | 24 | 0.00 | 0.37 ³ | 2.12 ⁴ | 3.51 ⁵ | 6.29 ⁶ | 8.11 ⁶ | 0.56 ² | 2.56 ³ | 4.18 ⁴ | 7.54 ⁶ | 9.69 ⁶ |
| 10 | 12 | 0.42 ⁴ | 1.25 ⁵ | 2.83 ⁶ | 4.09 ⁶ | 6.60 ⁶ | 8.29 ⁶ | 1.54 ⁴ | 3.37 ⁵ | 4.82 ⁶ | 7.82 ⁶ | 9.80 ⁶ |
| | 16 | 0.00 | 0.74 ³ | 2.32 ⁴ | 3.58 ⁵ | 6.10 ⁶ | 7.76 ⁶ | 0.97 ³ | 2.81 ³ | 4.24 ⁴ | 7.28 ⁶ | 9.24 ⁶ |
| | 24 | 0.00 | 0.00 | 1.43 ³ | 2.66 ³ | 5.17 ⁵ | 6.77 ⁴ | 0.00 ² | 1.80 ² | 3.20 ³ | 6.28 ⁴ | 8.21 ⁵ |
| 12 | 12 | 0.00 | 0.49 ³ | 1.73 ³ | 2.72 ⁴ | 4.72 ⁶ | 6.01 ⁵ | 0.67 ² | 2.12 ³ | 3.25 ³ | 5.69 ⁵ | 7.24 ⁶ |
| | 16 | 0.00 | 0.00 | 1.21 ² | 2.19 ³ | 4.17 ⁴ | 5.42 ³ | 0.06 ¹ | 1.53 ² | 2.64 ² | 5.10 ³ | 6.63 ⁴ |
| | 24 | 0.00 | 0.00 | 0.31 ¹ | 1.26 ² | 3.21 ³ | 4.39 ² | 0.00 ¹ | 0.51 ¹ | 1.57 ¹ | 4.04 ² | 5.51 ³ |
| 14 | 12 | 0.00 | 0.00 | 0.92 ² | 1.69 ² | 3.24 ³ | 4.20 ³ | 0.01 ¹ | 1.17 ¹ | 2.05 ² | 3.99 ³ | 5.19 ³ |
| | 16 | 0.00 | 0.00 | 0.43 ¹ | 1.18 ² | 2.71 ² | 3.64 ² | 0.00 | 0.61 ¹ | 1.46 ¹ | 3.40 ² | 4.57 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.31 ¹ | 1.80 ¹ | 2.66 ¹ | 0.00 | 0.00 | 0.45 ¹ | 2.38 ¹ | 3.50 ¹ |
| 16 | 12 | 0.00 | 0.00 | 0.38 ¹ | 0.97 ¹ | 2.20 ² | 2.93 ² | 0.00 | 0.53 ¹ | 1.21 ¹ | 2.77 ² | 3.70 ² |
| | 16 | 0.00 | 0.00 | 0.00 | 0.50 ¹ | 1.70 ¹ | 2.40 ¹ | 0.00 | 0.00 | 0.66 ¹ | 2.21 ¹ | 3.11 ¹ |
| | 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 ¹ | 1.49 ¹ | 0.00 | 0.00 | 0.00 | 1.25 ¹ | 2.10 ¹ |

| Wall | Spacing (in) o.c. | 362S300-mils (Fy) | | | | 362S350-mils (Fy) | | | |
|------|----------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| | | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) | -118 (50) |
| 8 | 12 | 6.02 ⁶ | 8.47 ⁶ | 12.58 ⁶ | 15.57 ⁶ | 6.55 ⁶ | 9.70 ⁶ | 14.72 ⁶ | 18.23 ⁶ |
| | 16 | 5.56 ⁶ | 7.97 ⁶ | 12.10 ⁶ | 15.13 ⁶ | 6.08 ⁶ | 9.18 ⁶ | 14.19 ⁶ | 17.76 ⁶ |
| | 24 | 4.69 ³ | 7.02 ⁶ | 11.18 ⁶ | 14.27 ⁶ | 5.19 ⁶ | 8.20 ⁶ | 13.17 ⁶ | 16.85 ⁶ |
| 9 | 12 | 5.26 ⁶ | 7.41 ⁶ | 11.22 ⁶ | 14.01 ⁶ | 5.78 ⁶ | 8.62 ⁶ | 13.15 ⁶ | 16.44 ⁶ |
| | 16 | 4.72 ⁶ | 6.82 ⁶ | 10.65 ⁶ | 13.47 ⁶ | 5.22 ⁶ | 8.00 ⁶ | 12.51 ⁶ | 15.87 ⁶ |
| | 24 | 3.73 ⁴ | 5.74 ⁵ | 9.57 ⁶ | 12.45 ⁶ | 4.19 ⁴ | 6.86 ⁵ | 11.32 ⁶ | 14.78 ⁶ |
| 10 | 12 | 4.48 ⁶ | 6.34 ⁶ | 9.83 ⁶ | 12.40 ⁶ | 4.99 ⁶ | 7.51 ⁶ | 11.54 ⁶ | 14.60 ⁶ |
| | 16 | 3.89 ⁴ | 5.69 ⁵ | 9.18 ⁶ | 11.78 ⁶ | 4.36 ⁴ | 6.81 ⁶ | 10.82 ⁶ | 13.93 ⁶ |
| | 24 | 2.82 ³ | 4.53 ³ | 8.00 ⁵ | 10.64 ⁶ | 3.22 ³ | 5.56 ⁴ | 9.50 ⁵ | 12.71 ⁶ |
| 12 | 12 | 3.04 ³ | 4.38 ⁴ | 7.17 ⁶ | 9.26 ⁶ | 3.46 ³ | 5.31 ⁵ | 8.48 ⁶ | 11.01 ⁶ |
| | 16 | 2.40 ² | 3.69 ² | 6.46 ⁴ | 8.57 ⁵ | 2.77 ² | 4.56 ³ | 7.69 ⁵ | 10.26 ⁶ |
| | 24 | 1.28 ¹ | 2.50 ² | 5.21 ² | 7.33 ³ | 1.56 ¹ | 3.26 ² | 6.28 ³ | 8.91 ⁴ |
| 14 | 12 | 1.84 ² | 2.86 ² | 5.03 ³ | 6.68 ⁴ | 2.18 ² | 3.53 ³ | 5.98 ⁴ | 8.00 ⁵ |
| | 16 | 1.23 ¹ | 2.20 ² | 4.34 ² | 6.00 ³ | 1.51 ¹ | 2.81 ² | 5.20 ³ | 7.26 ³ |
| | 24 | 0.19 ¹ | 1.08 ¹ | 3.14 ¹ | 4.80 ² | 0.35 ¹ | 1.59 ¹ | 3.86 ² | 5.94 ² |
| 16 | 12 | 1.02 ¹ | 1.80 ¹ | 3.51 ² | 4.83 ² | 1.26 ¹ | 2.29 ² | 4.20 ² | 5.83 ³ |
| | 16 | 0.46 ¹ | 1.19 ¹ | 2.85 ¹ | 4.18 ² | 0.62 ¹ | 1.62 ¹ | 3.47 ² | 5.12 ² |
| | 24 | 0.00 | 0.00 | 1.74 ¹ | 3.06 ¹ | 0.00 | 0.48 ¹ | 2.22 ¹ | 3.9 ¹ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



| Wall | Spacing (in) o.c. | 550S162-mils (Fy) | | | | | 550S200-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 1.64 ⁶ | 2.68 ⁶ | 4.96 ⁶ | 6.80 ⁶ | 10.67 ⁶ | 2.02 ⁶ | 3.38 ⁶ | 6.38 ⁶ | 8.85 ⁶ | 14.25 ⁶ |
| | 16 | 1.35 ⁶ | 2.41 ⁶ | 4.70 ⁶ | 6.55 ⁶ | 10.41 ⁶ | 1.73 ⁶ | 3.06 ⁶ | 6.06 ⁶ | 8.55 ⁶ | 13.95 ⁶ |
| | 24 | 0.79 ⁶ | 1.88 ⁶ | 4.19 ⁶ | 6.05 ⁶ | 9.91 ⁶ | 1.15 ⁶ | 2.44 ⁶ | 5.44 ⁶ | 7.96 ⁶ | 13.00 ⁶ |
| 9 | 12 | 1.38 ⁶ | 2.42 ⁶ | 4.69 ⁶ | 6.56 ⁶ | 10.42 ⁶ | 1.75 ⁶ | 3.06 ⁶ | 5.97 ⁶ | 8.40 ⁶ | 13.68 ⁶ |
| | 16 | 1.03 ⁶ | 2.09 ⁶ | 4.36 ⁶ | 6.23 ⁶ | 10.08 ⁶ | 1.38 ⁶ | 2.67 ⁶ | 5.57 ⁶ | 8.02 ⁶ | 13.29 ⁶ |
| | 24 | 0.35 ⁶ | 1.44 ⁶ | 3.72 ⁶ | 5.59 ⁶ | 9.43 ⁶ | 0.68 ⁵ | 1.91 ⁶ | 4.80 ⁶ | 7.28 ⁶ | 12.53 ⁶ |
| 10 | 12 | 1.10 ⁶ | 2.14 ⁶ | 4.35 ⁶ | 6.26 ⁶ | 10.11 ⁶ | 1.46 ⁶ | 2.71 ⁶ | 5.51 ⁶ | 7.89 ⁶ | 13.01 ⁶ |
| | 16 | 6.85 ⁶ | 1.74 ⁶ | 3.95 ⁶ | 5.85 ⁶ | 9.69 ⁶ | 1.02 ⁵ | 2.24 ⁶ | 5.03 ⁶ | 7.42 ⁶ | 12.53 ⁶ |
| | 24 | 0.00 | 0.97 ⁵ | 3.18 ⁶ | 5.07 ⁶ | 8.87 ⁶ | 0.21 ³ | 1.35 ⁴ | 4.11 ⁵ | 6.53 ⁶ | 11.59 ⁶ |
| 12 | 12 | 0.52 ⁵ | 1.51 ⁶ | 3.54 ⁶ | 5.32 ⁶ | 9.29 ⁶ | 0.83 ⁴ | 1.94 ⁵ | 4.45 ⁶ | 6.68 ⁶ | 11.40 ⁶ |
| | 16 | 0.00 | 0.99 ⁵ | 3.01 ⁶ | 4.76 ⁶ | 8.67 ⁶ | 0.28 ³ | 1.34 ⁴ | 3.82 ⁵ | 6.05 ⁶ | 10.70 ⁶ |
| | 24 | 0.00 | 0.04 ³ | 2.04 ⁴ | 3.74 ⁵ | 7.50 ⁶ | 0.00 ² | 0.24 ² | 2.68 ³ | 4.90 ⁴ | 9.44 ⁵ |
| 14 | 12 | 0.00 | 0.86 ⁴ | 2.66 ⁵ | 4.24 ⁶ | 7.72 ⁶ | 0.21 ² | 1.17 ³ | 3.35 ⁴ | 5.34 ⁵ | 9.48 ⁶ |
| | 16 | 0.00 | 0.26 ³ | 2.05 ³ | 3.59 ⁴ | 6.96 ⁶ | 0.00 ² | 0.48 ² | 2.63 ³ | 4.61 ³ | 8.66 ⁵ |
| | 24 | 0.00 | 0.00 | 0.96 ² | 2.41 ³ | 5.60 ⁴ | 0.00 ¹ | 0.00 ¹ | 1.36 ² | 3.30 ² | 7.19 ³ |
| 16 | 12 | 0.00 | 0.28 ² | 1.83 ³ | 3.18 ⁴ | 6.10 ⁵ | 0.00 ¹ | 0.47 ² | 2.33 ² | 4.06 ³ | 7.58 ⁴ |
| | 16 | 0.00 | 0.00 | 1.19 ² | 2.48 ³ | 5.29 ⁴ | 0.00 ¹ | 0.00 ¹ | 1.58 ² | 3.28 ² | 6.69 ³ |
| | 24 | 0.00 | 0.00 | 0.06 ¹ | 1.26 ² | 3.86 ² | 0.00 | 0.00 ¹ | 0.28 ¹ | 1.92 ¹ | 5.14 ² |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



Table 1: Allowable Combined Axial and Bending Loads for 800S137-mils (Fy) and 800S162-mils (Fy) walls. Columns include Wall Ht. (ft), Spacing (in) o.c., and load capacities for various heights and spacings.

Table 2: Allowable Combined Axial and Bending Loads for 800S200-mils (Fy) and 800S250-mils (Fy) walls. Columns include Wall Ht. (ft), Spacing (in) o.c., and load capacities for various heights and spacings.

Table 3: Allowable Combined Axial and Bending Loads for 800S300-mils (Fy) and 800S350-mils (Fy) walls. Columns include Wall Ht. (ft), Spacing (in) o.c., and load capacities for various heights and spacings.

- Notes:
- 1 Deflection meets L/120
- 2 Deflection meets L/240
- 3 Deflection meets L/360
- 4 Deflection meets L/480
- 5 Deflection meets L/600
- 6 Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports

Tables | Combined Axial and Lateral Load

Allowable Combined Axial and Bending Loads 30psf Lateral Load



| Wall | Spacing | 1200S162-mils (Fy) | | | 1200S200-mils (Fy) | | | |
|------|---------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 4.69* ⁶ | 6.38 ⁶ | 10.15 ⁶ | 6.39* ⁶ | 9.35 ⁶ | 15.16 ⁶ |
| | 16 | | 4.59* ⁶ | 6.28 ⁶ | 10.05 ⁶ | 6.27* ⁶ | 9.22 ⁶ | 15.04 ⁶ |
| | 24 | | 4.38* ⁶ | 6.08 ⁶ | 9.87 ⁶ | 6.04* ⁶ | 8.97 ⁶ | 14.80 ⁶ |
| 9 | 12 | | 4.61* ⁶ | 6.30 ⁶ | 10.07 ⁶ | 6.30* ⁶ | 9.25 ⁶ | 15.06 ⁶ |
| | 16 | | 4.48* ⁶ | 6.17 ⁶ | 9.95 ⁶ | 6.15* ⁶ | 9.38 ⁶ | 14.91 ⁶ |
| | 24 | | 4.21* ⁶ | 5.92 ⁶ | 9.72 ⁶ | 5.85* ⁶ | 9.10 ⁶ | 14.60 ⁶ |
| 10 | 12 | | 4.51* ⁶ | 6.21 ⁶ | 9.99 ⁶ | 6.19* ⁶ | 9.13 ⁶ | 14.95 ⁶ |
| | 16 | | 4.35* ⁶ | 6.05 ⁶ | 9.84 ⁶ | 6.01* ⁶ | 8.93 ⁶ | 14.76 ⁶ |
| | 24 | | 4.02* ⁶ | 5.74 ⁶ | 9.55 ⁶ | 5.64* ⁶ | 8.54 ⁶ | 14.37 ⁶ |
| 12 | 12 | | 4.29* ⁶ | 6.00 ⁶ | 9.79 ⁶ | 5.95* ⁶ | 8.86 ⁶ | 14.68 ⁶ |
| | 16 | | 4.05* ⁶ | 5.77 ⁶ | 9.57 ⁶ | 5.68* ⁶ | 8.57 ⁶ | 14.40 ⁶ |
| | 24 | | 3.58* ⁶ | 5.32 ⁶ | 9.15 ⁶ | 5.15* ⁶ | 8.00 ⁶ | 13.84 ⁶ |
| 14 | 12 | | 4.02* ⁶ | 5.74 ⁶ | 9.54 ⁶ | 5.66* ⁶ | 8.52 ⁶ | 14.35 ⁶ |
| | 16 | | 3.69* ⁶ | 5.43 ⁶ | 9.25 ⁶ | 5.30* ⁶ | 8.13 ⁶ | 13.96 ⁶ |
| | 24 | | 3.05* ⁶ | 4.82 ⁶ | 8.67 ⁶ | 4.57* ⁶ | 7.34 ⁶ | 13.19 ⁶ |
| 16 | 12 | | 3.70* ⁶ | 5.43 ⁶ | 9.25 ⁶ | 5.33* ⁶ | 8.13 ⁶ | 13.95 ⁶ |
| | 16 | | 3.28* ⁶ | 5.03 ⁶ | 8.87 ⁶ | 4.85* ⁶ | 7.61 ⁶ | 13.43 ⁶ |
| | 24 | | 2.45* ⁶ | 4.23 ⁶ | 8.11 ⁶ | 3.91* ⁶ | 6.58 ⁶ | 12.41 ⁶ |

| Wall | Spacing | 1200S250-mils (Fy) | | | 1200S300-mils (Fy) | | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 7.38* ⁶ | 10.77 ⁶ | 19.13 ⁶ | 10.20* ⁶ | 14.10 ⁶ | 24.33 ⁶ |
| | 16 | | 7.25* ⁶ | 10.64 ⁶ | 18.99 ⁶ | 10.05* ⁶ | 13.96 ⁶ | 24.17 ⁶ |
| | 24 | | 6.99* ⁶ | 10.37 ⁶ | 18.70 ⁶ | 9.75* ⁶ | 13.66 ⁶ | 23.86 ⁶ |
| 9 | 12 | | 7.27* ⁶ | 10.66 ⁶ | 19.01 ⁶ | 10.07* ⁶ | 13.98 ⁶ | 24.20 ⁶ |
| | 16 | | 7.11* ⁶ | 10.49 ⁶ | 18.83 ⁶ | 9.88* ⁶ | 13.79 ⁶ | 24.00 ⁶ |
| | 24 | | 6.79* ⁶ | 10.15 ⁶ | 18.47 ⁶ | 9.50* ⁶ | 13.41 ⁶ | 23.60 ⁶ |
| 10 | 12 | | 7.16* ⁶ | 10.53 ⁶ | 18.88 ⁶ | 9.93* ⁶ | 13.84 ⁶ | 24.05 ⁶ |
| | 16 | | 6.96* ⁶ | 10.32 ⁶ | 18.65 ⁶ | 9.70* ⁶ | 13.61 ⁶ | 23.80 ⁶ |
| | 24 | | 6.56* ⁶ | 9.90 ⁶ | 18.20 ⁶ | 9.22* ⁶ | 13.14 ⁶ | 23.30 ⁶ |
| 12 | 12 | | 6.90* ⁶ | 10.24 ⁶ | 18.56 ⁶ | 9.60* ⁶ | 13.51 ⁶ | 23.69 ⁶ |
| | 16 | | 6.61* ⁶ | 9.93 ⁶ | 18.22 ⁶ | 9.26* ⁶ | 13.17 ⁶ | 23.33 ⁶ |
| | 24 | | 6.04* ⁶ | 9.31 ⁶ | 17.56 ⁶ | 8.57* ⁶ | 12.48 ⁶ | 22.60 ⁶ |
| 14 | 12 | | 6.59* ⁶ | 9.88 ⁶ | 18.16 ⁶ | 9.20* ⁶ | 13.03 ⁶ | 23.19 ⁶ |
| | 16 | | 6.20* ⁶ | 9.45 ⁶ | 17.69 ⁶ | 8.72* ⁶ | 12.56 ⁶ | 22.68 ⁶ |
| | 24 | | 5.42* ⁶ | 8.60 ⁶ | 16.77 ⁶ | 7.78* ⁶ | 11.62 ⁶ | 21.67 ⁶ |
| 16 | 12 | | 6.23* ⁶ | 9.45 ⁶ | 17.67 ⁶ | 8.72* ⁶ | 12.40 ⁶ | 22.40 ⁶ |
| | 16 | | 5.72* ⁶ | 8.88 ⁶ | 17.06 ⁶ | 8.09* ⁶ | 11.79 ⁶ | 21.72 ⁶ |
| | 24 | | 4.70* ⁶ | 7.77 ⁶ | 15.84 ⁶ | 6.87* ⁶ | 10.57 ⁶ | 20.40 ⁶ |

Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0



| Wall | Spacing | 362S200-mils (Fy) | | | | | | 362S250-mils (Fy) | | | | | |
|------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | | 0.74 ⁵ | 1.71 ⁶ | 3.65 ⁶ | 5.18 ⁶ | 8.17 ⁶ | 10.24 ⁶ | 2.03 ⁶ | 4.19 ⁶ | 6.08 ⁶ | 9.59 ⁶ | 11.96 ⁶ |
| | 16 | | 0.25 ⁴ | 1.20 ⁵ | 3.14 ⁶ | 4.67 ⁶ | 7.68 ⁶ | 9.73 ⁶ | 1.47 ⁴ | 3.64 ⁵ | 5.50 ⁶ | 9.07 ⁶ | 11.44 ⁶ |
| | 24 | | 0.00 | 0.26 ³ | 2.19 ⁴ | 3.72 ⁴ | 6.76 ⁶ | 8.75 ⁶ | 0.45 ³ | 2.62 ³ | 4.43 ⁴ | 8.09 ⁶ | 10.43 ⁶ |
| 9 | 12 | | 0.32 ⁴ | 1.21 ⁵ | 2.97 ⁶ | 4.37 ⁶ | 7.14 ⁶ | 9.01 ⁶ | 1.49 ⁴ | 3.49 ⁵ | 5.15 ⁶ | 8.44 ⁶ | 10.62 ⁶ |
| | 16 | | 0.00 | 0.64 ⁴ | 2.40 ⁴ | 3.79 ⁶ | 6.57 ⁶ | 8.41 ⁶ | 0.86 ³ | 2.86 ⁴ | 4.49 ⁵ | 7.83 ⁶ | 10.00 ⁶ |
| | 24 | | 0.00 | 0.00 | 1.36 ³ | 2.73 ⁴ | 5.51 ⁵ | 7.29 ⁴ | 0.00 | 1.72 ² | 3.30 ³ | 6.70 ⁴ | 8.83 ⁵ |
| 10 | 12 | | 0.00 | 0.74 ³ | 2.32 ⁴ | 3.58 ⁵ | 6.10 ⁶ | 7.76 ⁶ | 0.97 ³ | 2.81 ³ | 4.24 ⁴ | 7.28 ⁶ | 9.24 ⁶ |
| | 16 | | 0.00 | 0.13 ² | 1.71 ³ | 2.95 ⁴ | 5.47 ⁶ | 7.09 ⁴ | 0.28 ² | 2.12 ² | 3.54 ³ | 6.60 ⁴ | 8.54 ⁵ |
| | 24 | | 0.00 | 0.00 | 0.64 ² | 1.85 ² | 4.34 ⁴ | 5.89 ³ | 0.00 | 0.91 ¹ | 2.27 ² | 5.38 ³ | 7.26 ³ |
| 12 | 12 | | 0.00 | 0.00 | 1.21 ² | 2.19 ³ | 4.17 ⁴ | 5.42 ³ | 0.06 | 1.53 ² | 2.64 ² | 5.10 ³ | 6.63 ⁴ |
| | 16 | | 0.00 | 0.00 | 0.60 ² | 1.55 ² | 3.51 ³ | 4.72 ² | 0.00 | 0.83 ¹ | 1.91 ² | 4.38 ² | 5.87 ³ |
| | 24 | | 0.00 | 0.00 | 0.00 | 0.45 ¹ | 2.36 ² | 3.49 ¹ | 0.00 | 0.00 | 0.65 ¹ | 3.11 ¹ | 4.54 ² |
| 14 | 12 | | 0.00 | 0.00 | 0.43 ¹ | 1.18 ² | 2.71 ² | 3.64 ² | 0.00 | 0.61 ¹ | 1.46 ¹ | 3.40 ² | 4.57 ² |
| | 16 | | 0.00 | 0.00 | 0.00 | 0.58 ¹ | 2.08 ² | 2.97 ¹ | 0.00 | 0.00 | 0.77 ¹ | 2.71 ¹ | 3.84 ² |
| | 24 | | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 ¹ | 1.81 ¹ | 0.00 | 0.00 | 0.00 | 1.50 ¹ | 2.56 ¹ |
| 16 | 12 | | 0.00 | 0.00 | 0.00 | 0.50 ¹ | 1.70 ¹ | 2.40 ¹ | 0.00 | 0.00 | 0.66 ¹ | 2.21 ¹ | 3.11 ¹ |
| | 16 | | 0.00 | 0.00 | 0.00 | 0.00 | 1.12 ¹ | 1.74 ¹ | 0.00 | 0.00 | 0.02 | 1.55 ¹ | 2.42 ¹ |
| | 24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.71 | 0.00 | 0.00 | 0.00 | 0.43 | 1.23 |

| Wall | Spacing | 362S300-mils (Fy) | | | | 362S350-mils (Fy) | | | | |
|------|---------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -118 (50) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | | 5.56 ⁶ | 7.97 ⁶ | 12.10 ⁶ | 15.13 ⁶ | 6.08 ⁶ | 9.18 ⁶ | 14.19 ⁶ | 17.76 ⁶ |
| | 16 | | 4.98 ⁶ | 7.33 ⁶ | 11.48 ⁶ | 14.55 ⁶ | 5.48 ⁶ | 8.52 ⁶ | 13.50 ⁶ | 17.15 ⁶ |
| | 24 | | 3.89 ⁴ | 6.13 ⁶ | 10.31 ⁶ | 13.45 ⁶ | 4.35 ⁴ | 7.27 ⁶ | 12.20 ⁶ | 15.97 ⁶ |
| 9 | 12 | | 4.72 ⁶ | 6.82 ⁶ | 10.65 ⁶ | 13.47 ⁶ | 5.22 ⁶ | 8.00 ⁶ | 12.51 ⁶ | 15.87 ⁶ |
| | 16 | | 4.05 ⁴ | 6.09 ⁵ | 9.92 ⁶ | 12.79 ⁶ | 4.52 ⁵ | 7.23 ⁶ | 11.70 ⁶ | 15.13 ⁶ |
| | 24 | | 2.83 ³ | 4.75 ³ | 8.57 ⁵ | 11.50 ⁶ | 3.25 ³ | 5.81 ⁴ | 10.21 ⁶ | 13.76 ⁶ |
| 10 | 12 | | 3.89 ⁴ | 5.69 ⁵ | 9.18 ⁶ | 11.78 ⁶ | 4.36 ⁴ | 6.81 ⁶ | 10.82 ⁶ | 13.93 ⁶ |
| | 16 | | 3.16 ³ | 4.90 ⁴ | 8.37 ⁵ | 11.01 ⁶ | 3.59 ³ | 5.96 ⁴ | 9.92 ⁶ | 13.10 ⁶ |
| | 24 | | 1.87 ² | 3.49 ² | 6.92 ³ | 9.59 ⁴ | 2.21 ² | 4.43 ³ | 8.30 ⁴ | 11.57 ⁵ |
| 12 | 12 | | 2.40 ² | 3.69 ³ | 6.46 ⁴ | 8.57 ⁵ | 2.77 ² | 4.56 ³ | 7.69 ⁵ | 10.26 ⁶ |
| | 16 | | 1.63 ¹ | 2.88 ² | 5.60 ³ | 7.72 ⁴ | 1.94 ² | 3.67 ² | 6.73 ³ | 9.34 ⁴ |
| | 24 | | 0.32 ¹ | 1.46 ¹ | 4.11 ² | 6.23 ² | 0.52 ¹ | 2.13 ¹ | 5.05 ² | 7.71 ³ |
| 14 | 12 | | 1.23 ¹ | 2.20 ² | 4.34 ² | 6.00 ³ | 1.51 ¹ | 2.81 ² | 5.20 ³ | 7.26 ³ |
| | 16 | | 0.51 ¹ | 1.43 ¹ | 3.52 ² | 5.18 ² | 0.71 ¹ | 1.97 ¹ | 4.28 ² | 6.36 ² |
| | 24 | | 0.00 | 0.12 ¹ | 2.10 ¹ | 3.76 ¹ | 0.00 | 0.54 ¹ | 2.70 ¹ | 4.81 ¹ |
| 16 | 12 | | 0.46 ¹ | 1.19 ¹ | 2.85 ¹ | 4.18 ² | 0.62 ¹ | 1.62 ¹ | 3.47 ² | 5.12 ² |
| | 16 | | 0.00 | 0.48 ¹ | 2.09 ¹ | 3.41 ¹ | 0.00 | 0.85 ¹ | 2.61 ¹ | 4.28 ¹ |
| | 24 | | 0.00 | 0.00 | 0.78 | 2.09 ¹ | 0.00 | 0.00 | 1.15 ¹ | 2.84 ¹ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



| Wall | Spacing (in) o.c. | 550S162-mils (Fy) | | | | | 550S200-mils (Fy) | | | | |
|------|----------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) | -33 (33) | -43 (33) | -54 (50) | -68 (50) | -97 (50) |
| 8 | 12 | 1.35 ⁶ | 2.41 ⁶ | 4.70 ⁶ | 6.55 ⁶ | 10.41 ⁶ | 1.73 ⁶ | 3.06 ⁶ | 6.06 ⁶ | 8.55 ⁶ | 13.95 ⁶ |
| | 16 | 0.98 ⁶ | 2.06 ⁶ | 4.36 ⁶ | 6.21 ⁶ | 10.08 ⁶ | 1.34 ⁶ | 2.64 ⁶ | 5.64 ⁶ | 8.15 ⁶ | 13.55 ⁶ |
| | 24 | 0.26 ⁶ | 1.37 ⁶ | 3.69 ⁶ | 5.56 ⁶ | 9.42 ⁶ | 0.59 ⁵ | 1.84 ⁶ | 4.83 ⁶ | 7.38 ⁶ | 12.76 ⁶ |
| 9 | 12 | 1.03 ⁶ | 2.09 ⁶ | 4.36 ⁶ | 6.23 ⁶ | 10.08 ⁶ | 1.38 ⁶ | 2.67 ⁶ | 5.57 ⁶ | 8.02 ⁶ | 13.29 ⁶ |
| | 16 | 0.57 ⁶ | 1.65 ⁶ | 3.93 ⁶ | 5.80 ⁶ | 9.65 ⁶ | 0.91 ⁵ | 2.16 ⁶ | 5.05 ⁶ | 7.53 ⁶ | 12.78 ⁶ |
| | 24 | 0.00 | 0.82 ⁶ | 3.11 ⁶ | 4.98 ⁶ | 8.80 ⁶ | 0.02 ³ | 1.19 ⁶ | 4.06 ⁶ | 6.57 ⁶ | 11.79 ⁶ |
| 10 | 12 | 0.69 ⁶ | 1.74 ⁶ | 3.95 ⁶ | 5.85 ⁶ | 9.69 ⁶ | 1.02 ⁵ | 2.24 ⁶ | 5.03 ⁶ | 7.42 ⁶ | 12.53 ⁶ |
| | 16 | 0.16 ⁵ | 1.22 ⁶ | 3.43 ⁶ | 5.33 ⁶ | 9.14 ⁶ | 0.47 ⁴ | 1.64 ³ | 4.41 ⁶ | 6.82 ⁶ | 11.90 ⁶ |
| | 24 | 0.00 | 0.26 ⁴ | 2.46 ⁵ | 4.32 ⁶ | 8.09 ⁶ | 0.00 ² | 0.52 ³ | 3.25 ⁴ | 5.68 ⁵ | 10.69 ⁶ |
| 12 | 12 | 0.00 | 0.99 ⁵ | 3.01 ⁶ | 4.76 ⁶ | 8.67 ⁶ | 0.28 ³ | 1.34 ⁴ | 3.82 ⁵ | 6.05 ⁶ | 10.70 ⁶ |
| | 16 | 0.00 | 0.34 ³ | 2.35 ⁴ | 4.07 ⁵ | 7.88 ⁶ | 0.00 ² | 0.59 ³ | 3.05 ³ | 5.27 ⁴ | 9.84 ⁶ |
| | 24 | 0.00 | 0.00 | 1.16 ³ | 2.80 ³ | 6.43 ⁵ | 0.00 ¹ | 0.00 ² | 1.64 ² | 3.84 ³ | 8.27 ⁴ |
| 14 | 12 | 0.00 | 0.26 ³ | 2.05 ³ | 3.59 ⁴ | 6.96 ⁶ | 0.00 ² | 0.48 ² | 2.63 ³ | 4.61 ³ | 8.66 ⁵ |
| | 16 | 0.00 | 0.00 | 1.31 ² | 2.79 ³ | 6.03 ⁴ | 0.00 ¹ | 0.00 ¹ | 1.76 ² | 3.72 ² | 7.66 ⁴ |
| | 24 | 0.00 | 0.00 | 0.00 | 2.00 ² | 4.39 ³ | 0.00 ¹ | 0.00 ¹ | 0.24 ¹ | 2.14 ¹ | 5.87 ² |
| 16 | 12 | 0.00 | 0.00 | 1.19 ² | 2.48 ³ | 5.29 ⁴ | 0.00 ¹ | 0.00 ¹ | 1.58 ² | 3.28 ² | 6.69 ³ |
| | 16 | 0.00 | 0.00 | 0.42 ¹ | 1.64 ² | 4.31 ³ | 0.00 ¹ | 0.00 ¹ | 0.69 ¹ | 2.34 ² | 5.63 ² |
| | 24 | 0.00 | 0.00 | 0.00 | 0.20 ¹ | 2.62 ² | 0.00 | 0.00 | 0.00 ¹ | 0.73 ¹ | 3.79 ¹ |

Notes:

- ¹ Deflection meets L/120
- ² Deflection meets L/240
- ³ Deflection meets L/360
- ⁴ Deflection meets L/480
- ⁵ Deflection meets L/600
- ⁶ Deflection meets L/720
- Axial Load Multiplier = 1
- KyLy & KtLt = 48
- Lateral Load Multiplier - Strength = 1
- Lateral Load Multiplier - Deflection = 1.0
- * h/t > 200, stiffeners are required at supports



| Wall | Spacing | 1200S162-mils (Fy) | | | 1200S200-mils (Fy) | | | |
|------|---------|--------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 4.59* ⁶ | 6.28 ⁶ | 10.05 ⁶ | 6.27* ⁶ | 9.22 ⁶ | 15.04 ⁶ |
| | 16 | | 4.45* ⁶ | 6.15 ⁶ | 9.93 ⁶ | 6.12* ⁶ | 9.06 ⁶ | 14.88 ⁶ |
| | 24 | | 4.17* ⁶ | 5.89 ⁶ | 9.69 ⁶ | 5.80* ⁶ | 8.73 ⁶ | 14.56 ⁶ |
| 9 | 12 | | 4.48* ⁶ | 6.17 ⁶ | 9.95 ⁶ | 6.15* ⁶ | 9.09 ⁶ | 14.91 ⁶ |
| | 16 | | 4.30* ⁶ | 6.01 ⁶ | 9.80 ⁶ | 5.95* ⁶ | 8.88 ⁶ | 14.70 ⁶ |
| | 24 | | 3.95* ⁶ | 5.67 ⁶ | 9.49 ⁶ | 5.55* ⁶ | 8.45 ⁶ | 14.29 ⁶ |
| 10 | 12 | | 4.35* ⁶ | 6.05 ⁶ | 9.84 ⁶ | 6.01* ⁶ | 8.93 ⁶ | 14.76 ⁶ |
| | 16 | | 4.13* ⁶ | 5.85 ⁶ | 9.65 ⁶ | 5.76* ⁶ | 8.67 ⁶ | 14.50 ⁶ |
| | 24 | | 3.70* ⁶ | 5.43 ⁶ | 9.26 ⁶ | 5.27* ⁶ | 8.15 ⁶ | 13.99 ⁶ |
| 12 | 12 | | 4.05* ⁶ | 5.77 ⁶ | 9.57 ⁶ | 5.68* ⁶ | 8.57 ⁶ | 14.40 ⁶ |
| | 16 | | 3.74* ⁶ | 5.47 ⁶ | 9.29 ⁶ | 5.33* ⁶ | 8.19 ⁶ | 14.02 ⁶ |
| | 24 | | 3.11* ⁶ | 4.87 ⁶ | 8.73 ⁶ | 4.62* ⁶ | 7.43 ⁶ | 13.28 ⁶ |
| 14 | 12 | | 3.69* ⁶ | 5.43 ⁶ | 9.25 ⁶ | 5.30* ⁶ | 8.13 ⁶ | 13.96 ⁶ |
| | 16 | | 3.27* ⁶ | 5.02 ⁶ | 8.86 ⁶ | 4.81* ⁶ | 7.60 ⁶ | 13.44 ⁶ |
| | 24 | | 2.42* ⁶ | 4.21 ⁶ | 8.10 ⁶ | 3.85* ⁶ | 6.57 ⁶ | 12.42 ⁶ |
| 16 | 12 | | 3.28* ⁶ | 5.03 ⁶ | 8.87 ⁶ | 4.85* ⁶ | 7.61 ⁶ | 13.43 ⁶ |
| | 16 | | 2.72* ⁶ | 4.49 ⁶ | 8.36 ⁶ | 4.22* ⁶ | 6.92 ⁶ | 12.75 ⁶ |
| | 24 | | 1.64* ⁵ | 3.45 ⁶ | 7.36 ⁶ | 2.96* ⁶ | 5.58 ⁶ | 11.41 ⁶ |

| Wall | Spacing | 1200S250-mils (Fy) | | | 1200S300-mils (Fy) | | | |
|------|---------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Ht. (ft) | (in) o.c. | -54 (50) | -68 (50) | -97 (50) | -54 (50) | -68 (50) |
| 8 | 12 | | 7.25* ⁶ | 10.64 ⁶ | 18.99 ⁶ | 10.26 ⁶ | 13.96 ⁶ | 24.17 ⁶ |
| | 16 | | 7.08* ⁶ | 10.46 ⁶ | 18.80 ⁶ | 10.05 ⁶ | 13.76 ⁶ | 23.96 ⁶ |
| | 24 | | 6.74* ⁶ | 10.10 ⁶ | 18.42 ⁶ | 9.65 ⁶ | 13.36 ⁶ | 23.55 ⁶ |
| 9 | 12 | | 7.11* ⁶ | 10.49 ⁶ | 18.83 ⁶ | 10.09 ⁶ | 13.79 ⁶ | 24.00 ⁶ |
| | 16 | | 6.90* ⁶ | 10.26 ⁶ | 18.59 ⁶ | 9.83 ⁶ | 13.54 ⁶ | 23.73 ⁶ |
| | 24 | | 6.47* ⁶ | 9.80 ⁶ | 18.10 ⁶ | 9.31 ⁶ | 13.04 ⁶ | 23.20 ⁶ |
| 10 | 12 | | 6.96* ⁶ | 10.32 ⁶ | 18.65 ⁶ | 9.90 ⁶ | 13.61 ⁶ | 23.80 ⁶ |
| | 16 | | 6.70* ⁶ | 10.04 ⁶ | 18.35 ⁶ | 9.58 ⁶ | 13.29 ⁶ | 23.47 ⁶ |
| | 24 | | 6.16* ⁶ | 9.47 ⁶ | 17.74 ⁶ | 8.93 ⁶ | 12.67 ⁶ | 22.81 ⁶ |
| 12 | 12 | | 6.61* ⁶ | 9.93 ⁶ | 18.22 ⁶ | 9.45 ⁶ | 13.17 ⁶ | 23.33 ⁶ |
| | 16 | | 6.23* ⁶ | 9.51 ⁶ | 17.78 ⁶ | 8.98 ⁶ | 12.71 ⁶ | 22.84 ⁶ |
| | 24 | | 5.46* ⁶ | 8.70 ⁶ | 16.90 ⁶ | 8.05 ⁶ | 11.80 ⁶ | 21.87 ⁶ |
| 14 | 12 | | 6.20* ⁶ | 9.45 ⁶ | 17.69 ⁶ | 8.84 ⁶ | 12.56 ⁶ | 22.68 ⁶ |
| | 16 | | 5.68* ⁶ | 8.88 ⁶ | 17.08 ⁶ | 8.21 ⁶ | 11.93 ⁶ | 22.01 ⁶ |
| | 24 | | 4.63* ⁶ | 7.77 ⁶ | 15.86 ⁶ | 6.95 ⁶ | 10.70 ⁶ | 20.67 ⁶ |
| 16 | 12 | | 5.72* ⁶ | 8.88 ⁶ | 17.06 ⁶ | 8.11 ⁶ | 11.79 ⁶ | 21.72 ⁶ |
| | 16 | | 5.04* ⁶ | 8.14 ⁶ | 16.24 ⁶ | 7.29 ⁶ | 10.97 ⁶ | 20.84 ⁶ |
| | 24 | | 3.68* ⁶ | 6.69 ⁶ | 14.64 ⁶ | 5.68 ⁶ | 9.38 ⁶ | 19.09 ⁶ |

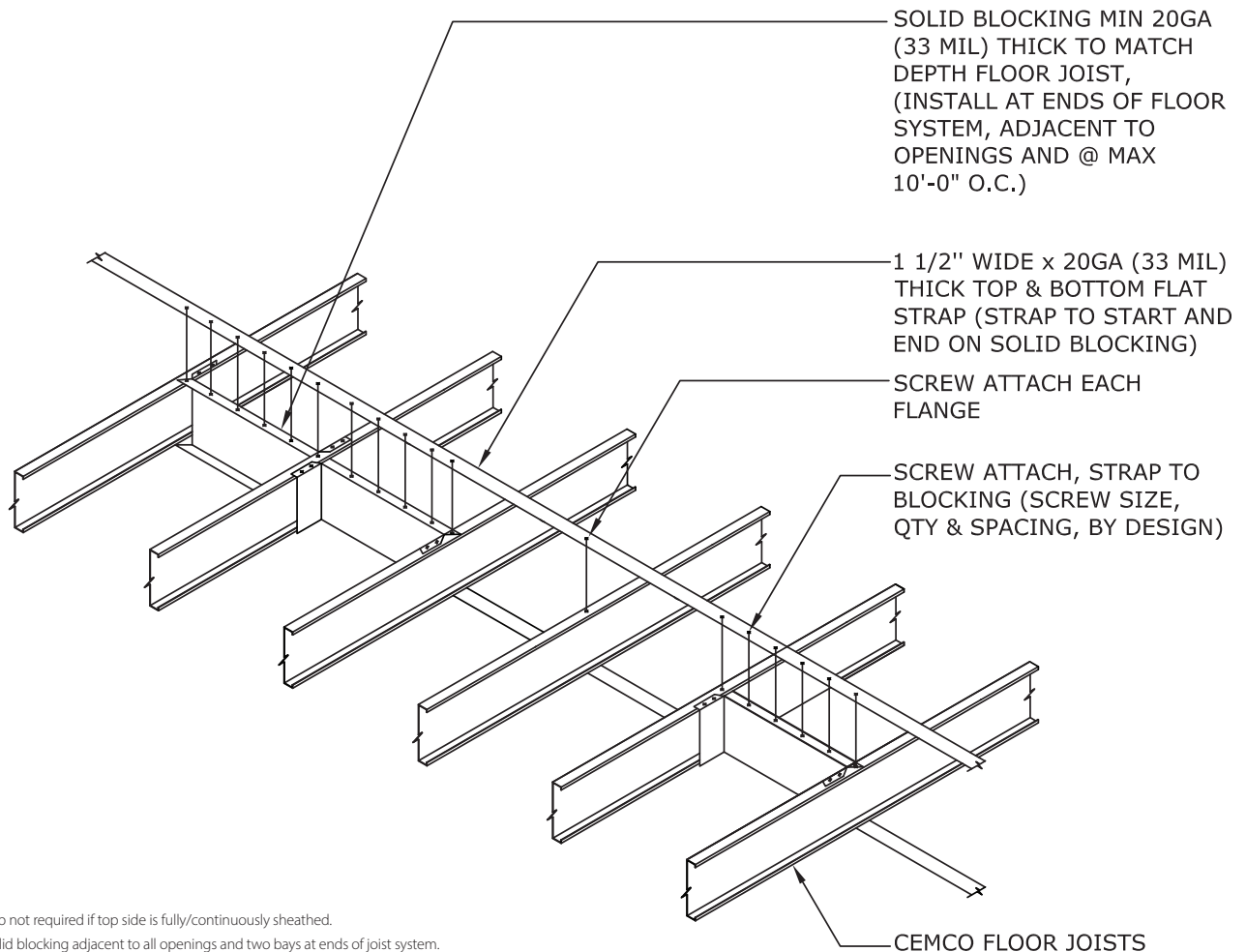
Notes:

- ¹ Deflection meets L/120
- ³ Deflection meets L/360
- ⁵ Deflection meets L/600
- Axial Load Multiplier = 1
- Lateral Load Multiplier - Strength = 1
- * h/t > 200, stiffeners are required at supports
- ² Deflection meets L/240
- ⁴ Deflection meets L/480
- ⁶ Deflection meets L/720
- KyLy & KtLt = 48
- Lateral Load Multiplier - Deflection = 1.0

Floor Joist Bridging and Bracing Notes

1. Bracing members shall be designed in accordance with section D3 of AISI S100.
2. Minimum number of rows required is shown in table, additional rows of bridging may be required by design.
3. All connections **MUST** be designed by a licensed professional engineer.

| Span (ft) | Minimum Number of Rows |
|------------|---------------------------------|
| Up to 16' | 1 row at the mid-span |
| 16' to 24' | 2 rows at 1/3 points |
| 24' to 32' | 3 rows at 1/4 points |
| Over 32' | Consult your Engineer of Record |



Notes:

1. Top strap not required if top side is fully/continuously sheathed.
2. Place solid blocking adjacent to all openings and two bays at ends of joist system.

Floor Joist Span Table Notes

1. Spans are based on continuous support of compression flange over the full length of the joist.
2. Spans are based on tension flange laterally braced at maximum spacing of 8'-0".
3. Joists must be braced against rotation at all supports.
4. End shear and web crippling capacity have not been reduced for punchouts.
5. End web crippling check is based on 3-1/2" end bearing.
6. "e" indicates web stiffeners are required at end supports.
7. Web stiffeners are required at interior support. Combined bending and web crippling check is not required when web stiffener is provided.
8. Shear capacity at interior support has been reduced for the presence of punchouts adjacent to the supports. Combined bending and shear check is based on unreinforced web in accordance with section C3.3.1 of AISI S100.
9. Total load deflection limited to L/240. Live load deflection limit as noted.
10. Alternate span live loading has been considered for two equal span conditions.
11. Stud distortional buckling based on assumed $K\Phi=0$.



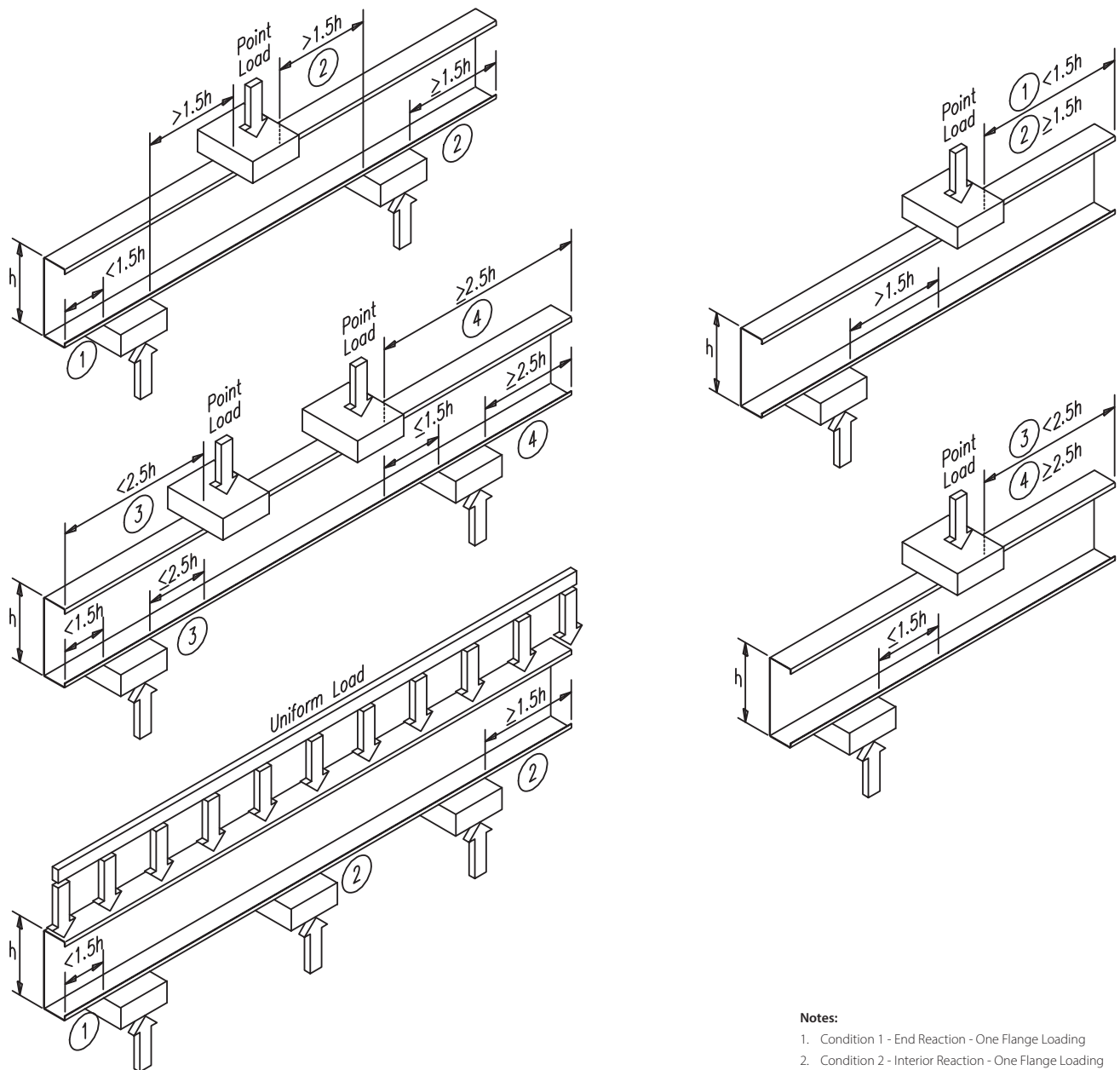
Table with columns for Section, Fy (Ksi), L/360 Live Load Deflection (Single Span Spacing and Two Equal Spans Spacing), and L/480 Live Load Deflection (Single Span Spacing and Two Equal Spans Spacing). Rows list various joist types and their corresponding span lengths.

Notes:

- "e" Requires web stiffeners at end supports
- "a" Requires web stiffeners at all supports
- End bearing length = 3.5"
- Studs considered unpunched for web crippling and shear
- "i" Requires web stiffeners at interior supports
- Interior bearing length = 3.5"
- Alternate span loading considered

Web Crippling Table Notes

1. Listed allowable loads apply only to members with stiffened flanges (i.e. S-sections).
2. For back-to-back members, the listed loads are for the entire two-member assembly.
3. Listed allowable loads are based on members "fastened to supports".
4. For back-to-back members, the distance between the web connectors and the flange shall be kept to a minimum.
5. For listed punchout reductions factors, R_c , x is the nearest distance between the web hole and edge of bearing in inches.
6. Listed allowable loads are for unpunched webs. Capacity reductions for end and interior one flange loading (Conditions 1 & 2) near punchouts are listed per AISI S100 Section C3.4.2.
7. "h" refers to the flat dimension of the web. See web-to-depth Thickness Ratio table in this catalog.


Notes:

1. Condition 1 - End Reaction - One Flange Loading
2. Condition 2 - Interior Reaction - One Flange Loading
3. Condition 3 - End Reaction - Two Flange Loading
4. Condition 4 - Interior Reaction - Two Flange Loading

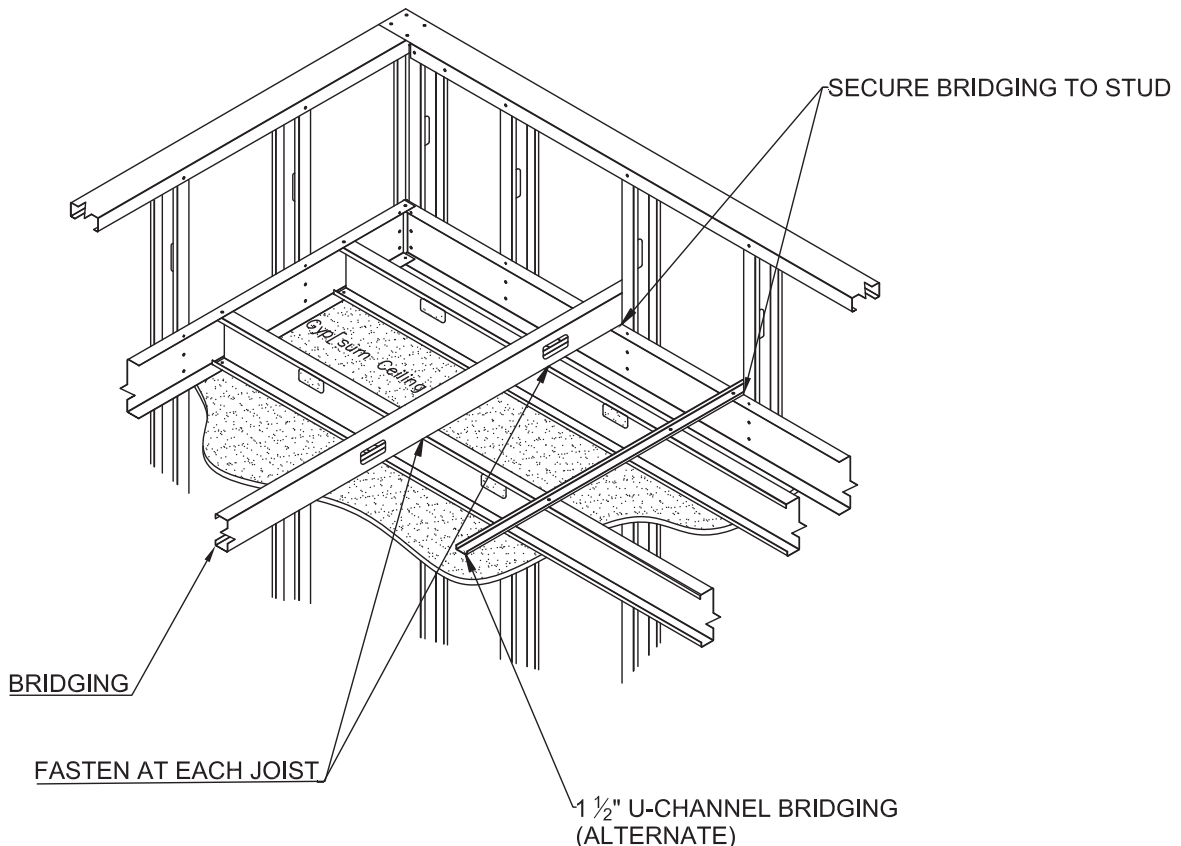
Allowable Ceiling Spans Notes

- For unbraced sections, allowable moment based on AISI S100 section C3.1.2 with unbraced length = listed span. For midspan braced sections, allowable moment based on AISI S100 section C3.1.2 with unbraced length = (listed span)/2.
- For spans listed with "e", web stiffeners are required at end reactions.
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punch-outs. If web punch-outs occur near supports, members must be checked for reduced shear and web crippling in accordance with the AISI S100.
- Values are for simple span conditions.
- Stud distortional buckling is based on an assumed $K\phi = 0$.

| Section | F _y (Ksi) | 4 psf Lateral Support of Compression Flange | | | | | | 6psf Lateral Support of Compression Flange | | | | | | 13 psf Lateral Support of Compression Flange | | | | | |
|------------|----------------------|---|--------|--------|---------------------------------|--------|--------|--|--------|--------|---------------------------------|--------|--------|--|--------|--------|---------------------------------|--------|---------|
| | | Unsupported Joist Spacing (in) o.c. | | | Midspan Joist Spacing (in) o.c. | | | Unsupported Joist Spacing (in) o.c. | | | Midspan Joist Spacing (in) o.c. | | | Unsupported Joist Spacing (in) o.c. | | | Midspan Joist Spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 250S137-33 | 33 | 11'9" | 10'10" | 9'9" | 14'11" | 13'6" | 11'10" | 10'6" | 9'9" | 8'8" | 13'0" | 11'10" | 10'4" | 8'6" | 7'11" | 7'1" | 0'0" | 9'1" | 8'0" |
| 250S137-43 | 33 | 13'2" | 12'1" | 10'9" | 16'2" | 14'8" | 12'10" | 11'8" | 10'9" | 9'7" | 14'2" | 12'10" | 11'2" | 9'4" | 8'7" | 7'8" | 10'11" | 9'11" | 8'8" |
| 250S162-33 | 33 | 13'5" | 12'5" | 11'1" | 15'8" | 14'2" | 12'5" | 12'0" | 11'1" | 10'0" | 13'8" | 12'5" | 10'10" | 9'9" | 9'0" | 8'0" | 10'7" | 9'7" | 8'4" |
| 250S162-43 | 33 | 14'11" | 13'9" | 12'3" | 17'0" | 15'5" | 13'6" | 13'3" | 12'3" | 10'11" | 14'10" | 13'6" | 11'9" | 10'8" | 9'10" | 8'9" | 11'6" | 10'5" | 9'1" |
| 350S137-33 | 33 | 12'9" | 11'9" | 10'6" | 18'1" | 16'9" | 15'0" | 11'5" | 10'6" | 9'5" | 16'3" | 15'0" | 13'3" | 9'3" | 8'6" | 7'8" | 12'11" | 11'9" | 10'0" |
| 350S137-43 | 33 | 14'1" | 13'0" | 11'7" | 19'10" | 18'4" | 16'4" | 12'7" | 11'7" | 10'4" | 17'8" | 16'4" | 14'6" | 10'1" | 9'4" | 8'4" | 14'2" | 12'10" | 11'2" |
| 350S162-33 | 33 | 14'6" | 13'5" | 12'0" | 20'3" | 18'5" | 16'1" | 13'0" | 12'0" | 10'9" | 17'8" | 16'1" | 14'0" | 10'6" | 9'9" | 8'9" | 13'8" | 12'5" | 10'10" |
| 350S162-43 | 33 | 16'0" | 14'9" | 13'2" | 22'0" | 20'0" | 17'6" | 14'3" | 13'2" | 11'9" | 19'3" | 17'6" | 15'3" | 11'6" | 10'8" | 9'6" | 14'10" | 13'6" | 11'9" |
| 362S137-33 | 33 | 12'10" | 11'11" | 10'7" | 18'3" | 16'11" | 15'2" | 11'6" | 10'8" | 9'6" | 16'5" | 15'2" | 13'5" | 9'4" | 8'7" | 7'9" | 13'1" | 11'10" | 10'2" |
| 362S137-43 | 33 | 14'3" | 13'1" | 11'8" | 20'0" | 18'6" | 16'6" | 12'8" | 11'8" | 10'5" | 17'10" | 16'6" | 14'9" | 10'2" | 9'5" | 8'5" | 14'5" | 13'1" | 11'4" |
| 362S162-33 | 33 | 14'8" | 13'6" | 12'1" | 20'9" | 18'11" | 16'6" | 13'1" | 12'1" | 10'10" | 18'2" | 16'6" | 14'5" | 10'8" | 9'10" | 8'10" | 14'0" | 12'9" | 11'1" |
| 362S162-43 | 33 | 16'1" | 14'10" | 13'3" | 22'7" | 20'7" | 17'11" | 14'4" | 13'3" | 11'10" | 19'9" | 17'11" | 15'8" | 11'7" | 10'9" | 9'7" | 15'3" | 13'10" | 12'1" |
| 400S137-33 | 33 | 13'2" | 12'2" | 10'11" | 18'9" | 17'4" | 15'6" | 11'9" | 10'11" | 9'9" | 16'9" | 15'6" | 13'10" | 9'7" | 8'10" | 7'11" | 13'6" | 12'4" | 10'7" |
| 400S137-43 | 33 | 14'7" | 13'5" | 12'0" | 20'6" | 18'11" | 16'11" | 13'0" | 12'0" | 10'8" | 18'4" | 16'11" | 15'2" | 10'5" | 9'8" | 8'8" | 14'10" | 13'7" | 11'10" |
| 400S162-33 | 33 | 15'0" | 13'10" | 12'5" | 21'4" | 19'10" | 17'9" | 13'5" | 12'5" | 11'2" | 19'2" | 17'9" | 15'6" | 10'11" | 10'1" | 9'1" | 15'2" | 13'9" | 11'8" |
| 400S162-43 | 33 | 16'6" | 15'3" | 13'7" | 23'4" | 21'7" | 19'4" | 14'9" | 13'7" | 12'2" | 20'10" | 19'4" | 16'11" | 11'11" | 11'0" | 9'10" | 16'6" | 14'11" | 13'1" |
| 550S137-33 | 33 | 14'6" | 13'5" | 12'0" | 20'10" | 19'4" | 17'5" | 13'0" | 12'0" | 10'10" | 18'9" | 17'5" | 15'8" | 10'7" | 9'10" | 8'10" | 15'4" | 14'3" | 12'8"e |
| 550S137-43 | 33 | 15'10" | 14'7" | 13'1" | 22'6" | 20'10" | 18'9" | 14'2" | 13'1" | 11'9" | 20'2" | 18'9" | 16'10" | 11'6" | 10'7" | 9'6" | 16'6" | 15'3" | 13'8" |
| 550S162-33 | 33 | 16'6" | 15'3" | 13'8" | 23'9" | 22'0" | 19'10" | 14'9" | 13'8" | 12'4" | 21'4" | 19'10" | 17'11" | 12'1" | 11'3" | 10'1" | 17'6" | 16'2" | 14'2"e |
| 550S162-43 | 33 | 17'11" | 16'7" | 14'10" | 25'7" | 23'9" | 21'4" | 16'1" | 14'10" | 13'4" | 23'0" | 21'4" | 19'2" | 13'0" | 12'1" | 10'10" | 18'10" | 17'5" | 15'5" |
| 600S137-33 | 33 | 14'10" | 13'9" | 12'4" | 21'4" | 19'10" | 17'10" | 13'4" | 12'4" | 11'1" | 19'3" | 17'10" | 16'0" | 10'11" | 10'1" | 9'1" | 15'8" | 14'5" | 12'10"e |
| 600S137-43 | 33 | 16'2" | 14'11" | 13'5" | 23'1" | 21'4" | 19'2" | 14'6" | 13'5" | 12'0" | 20'9" | 19'2" | 17'3" | 11'9" | 10'10" | 9'9" | 16'11" | 15'8" | 14'1" |
| 600S162-33 | 33 | 16'10" | 15'8" | 14'1" | 24'4" | 22'7" | 20'4" | 15'2" | 14'1" | 12'8" | 21'11" | 20'4" | 18'4" | 12'5" | 11'6" | 10'4" | 18'0" | 16'8" | 14'9"e |
| 600S162-43 | 33 | 18'4" | 17'0" | 15'3" | 26'3" | 24'4" | 21'10" | 16'5" | 15'3" | 13'8" | 23'7" | 21'10" | 19'8" | 13'4" | 12'5" | 11'2" | 19'3" | 17'11" | 16'0" |

Notes:

* Loads that exceed 10 psf limit require an approved CP60 coating.



Allowable Ceiling Spans Notes

- For unbraced sections, allowable moment based on AISI S100 section C3.1.2 with unbraced length = listed span. For midspan braced sections, allowable moment based on AISI S100 C3.1.2 with unbraced length = (listed span)/2.
- For spans listed with "e", web stiffeners are required at end reactions. and re-number list of notes
- Web crippling calculation based on bearing length = 1 inch.
- Web crippling and shear capacity have not been reduced for punch-outs. If web punch-outs occur near supports, members must be checked for reduced shear and web crippling in accordance with the AISI S100.
- Values are for simple span conditions.
- Stud distortional buckling is based on an assumed $K\phi = 0$.

| Section | Fy (Ksi) | 4 psf Lateral Support of Compression Flange | | | | | | 6 psf Lateral Support of Compression Flange | | | | | | 13 psf* Lateral Support of Compression Flange | | | | | |
|------------|----------|---|---------|---------|---------------------------------|---------|---------|---|---------|---------|---------------------------------|---------|---------|---|---------|---------|---------------------------------|---------|----------|
| | | Unsupported Joist Spacing (in) o.c. | | | Midspan Joist Spacing (in) o.c. | | | Unsupported Joist Spacing (in) o.c. | | | Midspan Joist Spacing (in) o.c. | | | Unsupported Joist Spacing (in) o.c. | | | Midspan Joist Spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 250S137-33 | 33 | 11' 9" | 10' 10" | 9' 9" | 13' 0" | 11' 10" | 10' 4" | 10' 6" | 9' 9" | 8' 8" | 11' 4" | 10' 4" | 9' 0" | 8' 6" | 7' 11" | 6' 11" | 8' 9" | 8' 0" | 6' 11" |
| 250S137-43 | 33 | 13' 2" | 12' 1" | 10' 9" | 14' 2" | 12' 10" | 11' 2" | 11' 8" | 10' 9" | 9' 7" | 12' 4" | 11' 2" | 9' 9" | 9' 4" | 8' 7" | 7' 7" | 9' 6" | 8' 8" | 7' 7" |
| 250S162-33 | 33 | 13' 5" | 12' 5" | 10' 10" | 13' 8" | 12' 5" | 10' 10" | 11' 11" | 10' 10" | 9' 5" | 11' 11" | 10' 10" | 9' 5" | 9' 2" | 8' 4" | 7' 4" | 9' 2" | 8' 4" | 7' 4" |
| 250S162-43 | 33 | 14' 10" | 13' 6" | 11' 9" | 14' 10" | 13' 6" | 11' 9" | 13' 0" | 11' 9" | 10' 3" | 13' 0" | 11' 9" | 10' 3" | 10' 0" | 9' 1" | 7' 11" | 10' 0" | 9' 1" | 7' 11" |
| 350S137-33 | 33 | 12' 9" | 11' 9" | 10' 6" | 16' 10" | 15' 4" | 13' 4" | 11' 5" | 10' 6" | 9' 5" | 14' 9" | 13' 4" | 11' 8" | 9' 3" | 8' 6" | 7' 8" | 11' 4" | 10' 4" | 9' 0" |
| 350S137-43 | 33 | 14' 1" | 13' 0" | 11' 7" | 18' 4" | 16' 8" | 14' 6" | 12' 7" | 11' 7" | 10' 4" | 16' 0" | 14' 6" | 12' 8" | 10' 1" | 9' 4" | 8' 4" | 12' 4" | 11' 3" | 9' 10" |
| 350S162-33 | 33 | 14' 6" | 13' 5" | 12' 0" | 17' 8" | 16' 1" | 14' 0" | 13' 0" | 12' 0" | 10' 9" | 15' 5" | 14' 0" | 12' 3" | 10' 6" | 9' 9" | 8' 9" | 11' 11" | 10' 10" | 9' 5" |
| 350S162-43 | 33 | 16' 0" | 14' 9" | 13' 2" | 19' 3" | 17' 6" | 15' 3" | 14' 3" | 13' 2" | 11' 9" | 16' 9" | 15' 3" | 13' 4" | 11' 6" | 10' 8" | 9' 6" | 13' 0" | 11' 9" | 10' 3" |
| 362S137-33 | 33 | 12' 10" | 11' 11" | 10' 7" | 17' 4" | 15' 9" | 13' 9" | 11' 6" | 10' 8" | 9' 6" | 15' 2" | 13' 9" | 12' 0" | 9' 4" | 8' 7" | 7' 9" | 11' 8" | 10' 7" | 9' 3" |
| 362S137-43 | 33 | 14' 3" | 13' 1" | 11' 8" | 18' 10" | 17' 1" | 14' 11" | 12' 8" | 11' 8" | 10' 5" | 16' 5" | 14' 11" | 13' 1" | 10' 2" | 9' 5" | 8' 5" | 12' 8" | 11' 6" | 10' 1" |
| 362S162-33 | 33 | 14' 8" | 13' 6" | 12' 1" | 18' 2" | 16' 6" | 14' 5" | 13' 1" | 12' 1" | 10' 10" | 15' 10" | 14' 5" | 12' 7" | 10' 8" | 9' 10" | 8' 10" | 12' 3" | 11' 1" | 9' 8" |
| 362S162-43 | 33 | 16' 1" | 14' 10" | 13' 3" | 19' 9" | 17' 11" | 15' 8" | 14' 4" | 13' 3" | 11' 10" | 17' 3" | 15' 8" | 13' 8" | 11' 7" | 10' 9" | 9' 7" | 13' 4" | 12' 1" | 10' 7" |
| 400S137-33 | 33 | 13' 2" | 12' 2" | 10' 11" | 18' 8" | 17' 0" | 14' 10" | 11' 9" | 10' 11" | 9' 9" | 16' 4" | 14' 10" | 12' 11" | 9' 7" | 8' 10" | 7' 11" | 12' 7" | 11' 5" | 10' 0" |
| 400S137-43 | 33 | 14' 7" | 13' 5" | 12' 0" | 20' 4" | 18' 6" | 16' 2" | 13' 0" | 12' 0" | 10' 8" | 17' 9" | 16' 2" | 14' 1" | 10' 5" | 9' 8" | 8' 8" | 13' 9" | 12' 6" | 10' 11" |
| 400S162-33 | 33 | 15' 0" | 13' 10" | 12' 5" | 19' 7" | 17' 10" | 15' 6" | 13' 5" | 12' 5" | 11' 2" | 17' 1" | 15' 6" | 13' 7" | 10' 11" | 10' 1" | 9' 1" | 13' 3" | 12' 0" | 10' 6" |
| 400S162-43 | 33 | 16' 6" | 15' 3" | 13' 7" | 21' 4" | 19' 4" | 16' 11" | 14' 9" | 13' 7" | 12' 2" | 18' 7" | 16' 11" | 14' 9" | 11' 11" | 11' 0" | 9' 10" | 14' 5" | 13' 1" | 11' 5" |
| 550S137-33 | 33 | 14' 6" | 13' 5" | 12' 0" | 20' 10" | 19' 4" | 17' 5" | 13' 0" | 12' 0" | 10' 10" | 18' 9" | 17' 5" | 15' 8" | 10' 7" | 9' 10" | 8' 10" | 15' 4" | 14' 3" | 12' 8"e |
| 550S137-43 | 33 | 15' 10" | 14' 7" | 13' 1" | 22' 6" | 20' 10" | 18' 9" | 14' 2" | 13' 1" | 11' 9" | 20' 2" | 18' 9" | 16' 10" | 11' 6" | 10' 7" | 9' 6" | 16' 6" | 15' 3" | 13' 8" |
| 550S162-33 | 33 | 16' 6" | 15' 3" | 13' 8" | 23' 9" | 22' 0" | 19' 10" | 14' 9" | 13' 8" | 12' 4" | 21' 4" | 19' 10" | 17' 5" | 12' 1" | 11' 3" | 10' 1" | 16' 11" | 15' 5" | 13' 5"e |
| 550S162-43 | 33 | 17' 11" | 16' 7" | 14' 10" | 25' 7" | 23' 9" | 21' 4" | 16' 1" | 14' 10" | 13' 4" | 23' 0" | 21' 4" | 18' 11" | 13' 0" | 12' 1" | 10' 10" | 18' 5" | 16' 9" | 14' 8" |
| 600S137-33 | 33 | 14' 10" | 13' 9" | 12' 4" | 21' 4" | 19' 10" | 17' 10" | 13' 4" | 12' 4" | 11' 1" | 19' 3" | 17' 10" | 16' 0" | 10' 11" | 10' 1" | 9' 1" | 15' 8" | 14' 5" | 12' 10" |
| 600S137-43 | 33 | 16' 2" | 14' 11" | 13' 5" | 23' 1" | 21' 4" | 19' 2" | 14' 6" | 13' 5" | 12' 0" | 20' 9" | 19' 2" | 17' 3" | 11' 9" | 10' 10" | 9' 9" | 16' 11" | 15' 8" | 14' 1" |
| 600S162-33 | 33 | 16' 10" | 15' 8" | 14' 1" | 24' 4" | 22' 7" | 20' 4" | 15' 2" | 14' 1" | 12' 8" | 21' 11" | 20' 4" | 18' 4" | 12' 5" | 11' 6" | 10' 4" | 18' 0" | 16' 6" | 14' 5" e |
| 600S162-43 | 33 | 18' 4" | 17' 0" | 15' 3" | 26' 3" | 24' 4" | 21' 10" | 16' 5" | 15' 3" | 13' 8" | 23' 7" | 21' 10" | 19' 8" | 13' 4" | 12' 5" | 11' 2" | 19' 3" | 17' 11" | 15' 8" |

Notes:
* Loads that exceed 10 psf limit require an approved CP60 coating.

| Member | Yield Strength (Ksi) | Header Allowable Uniform Loads (PLF) | | | | | | | | |
|--------------------------|----------------------|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Span | | | | | | | | |
| | | 3 (ft) | 4 (ft) | 5 (ft) | 6 (ft) | 8 (ft) | 10 (ft) | 12 (ft) | 14 (ft) | 16 (ft) |
| 1000S162-43 ¹ | 33 | 1114.6e | 835.9e | 668.7e | 557.3e | 418.0e | 334.4e | 238.3e | 175.1e | 134.0e |
| 1000S162-54 | 50 | 2214.5e | 1660.8e | 1328.7e | 1107.2e | 830.4e | 627.5e | 435.8e | 302.8e | 202.8e |
| 1000S162-68 | 50 | 4460.5e | 3345.4e | 2676.3e | 2230.3e | 1343.9e | 860.1e | 597.3e | 385.1e | 258.0e |
| 1000S162-97 | 50 | 13151.6e | 8157.3e | 5220.7e | 3625.5e | 2039.3e | 1305.2e | 858.2e | 540.5e | 362.1 |
| 1000S200-43 ¹ | 33 | 1114.6e | 835.9e | 668.7e | 557.3e | 418.0e | 334.4e | 269.0e | 197.6e | 151.3e |
| 1000S200-54 | 50 | 2214.5e | 1660.8e | 1328.7e | 1107.2e | 830.4e | 664.3e | 472.7e | 345.1e | 231.2e |
| 1000S200-68 | 50 | 4460.5e | 3345.4e | 2676.3e | 2230.3e | 1509.7e | 966.2e | 671.0e | 438.2e | 293.6e |
| 1000S200-97 | 50 | 13151.6e | 9333.3e | 5973.3e | 4148.1e | 2333.3e | 1493.3e | 978.1e | 615.9e | 412.6 |
| 1000S250-43 ¹ | 33 | 1114.6e | 835.9e | 668.7e | 557.3e | 418.0e | 334.4e | 278.6e | 217.3e | 166.4e |
| 1000S250-54 | 50 | 2214.5e | 1660.8e | 1328.7e | 1107.2e | 830.4e | 664.3e | 520.9e | 382.7e | 270.5e |
| 1000S250-68 | 50 | 4460.5e | 3345.4e | 2676.3e | 2230.3e | 1672.7e | 1105.1e | 767.5e | 501.7e | 336.1e |
| 1000S250-97 | 50 | 13151.6e | 9863.7e | 7500.1e | 5208.4e | 2929.7e | 1875.0e | 1104.1e | 695.3e | 465.8e |
| 1000S300-54 | 50 | 2214.5e | 1660.8e | 1328.7e | 1107.2e | 830.4e | 664.3e | 527.4e | 387.5e | 293.8e |
| 1000S300-68 | 50 | 4460.5e | 3345.4e | 2676.3e | 2230.3e | 1672.7e | 1118.5e | 776.8e | 549.9e | 368.4e |
| 1000S300-97 | 50 | 13151.6e | 9863.7e | 7183.5e | 4988.6e | 2806.1e | 1795.9e | 1230.1e | 774.6e | 518.9e |
| 1200S162-54 ¹ | 50 | 1836.5e | 1377.4e | 1101.9e | 918.2e | 688.7e | 550.9e | 459.1e | 389.9e | 298.5e |
| 1200S162-68 | 50 | 3694.3e | 2770.7e | 2216.6e | 1847.2e | 1385.4e | 1055.9e | 733.3e | 538.7e | 398.7e |
| 1200S162-97 | 50 | 10862.7e | 8147.0e | 6517.6e | 4536.6e | 2551.8e | 1633.2e | 1134.1e | 833.3e | 574.0e |
| 1200S200-54 ¹ | 50 | 1836.5e | 1377.4e | 1101.9e | 918.2e | 688.7e | 550.9e | 459.1e | 393.5e | 323.3e |
| 1200S200-68 | 50 | 3694.3e | 2770.7e | 2216.6e | 1847.2e | 1385.4e | 1108.3e | 821.4e | 603.5e | 450.2e |
| 1200S200-97 | 50 | 10862.7e | 8147.0e | 6517.6e | 5167.2e | 2906.5e | 1860.2e | 1291.8e | 949.1e | 647.3e |
| 1200S250-54 ¹ | 50 | 1836.5e | 1377.4e | 1101.9e | 918.2e | 688.7e | 550.9e | 459.1e | 393.5e | 335.1e |
| 1200S250-68 | 50 | 3694.3e | 2770.7e | 2216.6e | 1847.2e | 1385.4e | 1108.3e | 833.7e | 612.5e | 469.9e |
| 1200S250-97 | 50 | 10862.7e | 8147.0e | 6517.6e | 5431.3e | 3142.1e | 2010.9e | 1396.5e | 1026.0e | 725.7e |
| 1200S300-54 ¹ | 50 | 1836.5e | 1377.4e | 1101.9e | 918.2e | 688.7e | 550.9e | 459.1e | 393.5e | 344.3e |
| 1200S300-68 | 50 | 3694.3e | 2770.7e | 2216.6e | 1847.2e | 1385.4e | 1108.3e | 919.6e | 675.6e | 517.3e |
| 1200S300-97 | 50 | 10862.7e | 8147.0e | 6517.6e | 5431.3e | 3636.9e | 2327.6e | 1616.4e | 1187.6e | 802.7e |

Notes:

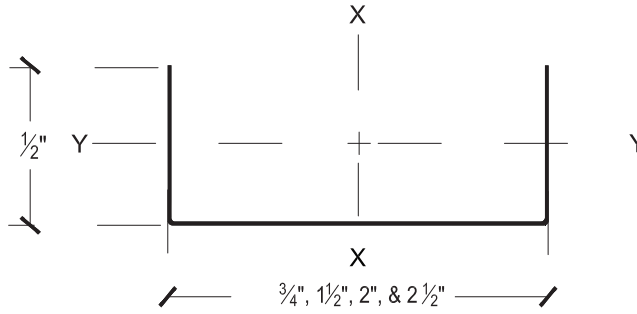
- Spans are based on continuous support of compression flange over the full length of header.
- For two equal spans, the listed span is the distance from either end to the center support, with the header continuous over the center support.
- Header must be braced against rotation at all supports.
- Web stiffeners required at mid-span supports.
- Web stiffeners required at mid-span supports.
- Values are for un-punched members.
- Total load deflection is limited to L/360.
- Allowable moment, shear and web crippling are based on twice the capacity of a single member. The moment of inertia is based on twice the value of the single member.
- Web crippling check is based on 1" bearing length at end supports.
- Allowable loads are for simply supported headers with uniform bending loads only.
- Headers are made from two "boxed" or "back-to-back" members.
- "e" web stiffeners are required at ends.

U-Channel Section Properties

| Section | Design Thickness (in) | Gross | | | | | | Effective Properties 33 ksi | | | |
|------------|-----------------------|-------------------------|----------------|-----------------------------------|---------------------|-----------------------------------|---------------------|-----------------------------------|-----------------------------------|-----------|---------|
| | | Area (in ²) | Weight (lb/ft) | I _x (in ⁴) | R _x (in) | I _y (in ⁴) | R _y (in) | I _x (in ⁴) | S _x (in ³) | Ma (in-k) | Va (lb) |
| 75U050-54 | 0.0566 | 0.087 | 0.30 | 0.007 | 0.288 | 0.002 | 0.155 | 0.007 | 0.019 | 0.45 | 315 |
| 150U050-54 | 0.0566 | 0.129 | 0.44 | 0.039 | 0.547 | 0.003 | 0.144 | 0.039 | 0.052 | 1.22 | 840 |
| 200U050-54 | 0.0566 | 0.157 | 0.54 | 0.079 | 0.709 | 0.003 | 0.136 | 0.079 | 0.079 | 1.87 | 1190 |
| 250U050-54 | 0.0566 | 0.186 | 0.63 | 0.139 | 0.866 | 0.003 | 0.128 | 0.139 | 0.111 | 2.64 | 1540 |

Property Notes:

- For Deflection calculations, use effective I_{xx}.
- Inside bend radius taken as 3/32".



Allowable U-Channel Ceiling Spans – L/240s

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

* Loads that exceed 10 psf limit require an approved CP60 coating.

Property Notes:

- For Deflection calculations, use effective I_{xx}.
- Inside bend radius taken as 3/32".

Allowable U-Channel Ceiling Spans – L/360

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

* Loads that exceed 10 psf limit require an approved CP60 coating.

Span Notes:

- F_y = 33 ksi for all sections.
- Multiple span indicates two or more equal spans with channel continuous over interior supports
- Bearing Lengths = 0.75".
- Allowable spans based on the compression flange laterally unbraced.
- Include Torsion.
- Loads that exceed 10 psf limit require an approved CP60 coating.

Structural Properties for Hat Furring Channels

| Section | Fy (ksi) | Design Thickness (in) | Gross Properties | | | | | | Effective Properties | | |
|------------|----------|-----------------------|-------------------------|----------------|-----------------------|---------|-----------------------|---------|-----------------------|-----------------------|------------|
| | | | Area (in ²) | Weight (lb/ft) | Ix (in ⁴) | Rx (in) | Iy (in ⁴) | Ry (in) | Ix (in ⁴) | Sx (in ³) | Ma (ft/lb) |
| 087F125-18 | 33 | 0.0188 | 0.070 | 0.239 | 0.009 | 0.356 | 0.0422 | 0.774 | 0.0086 | 0.0160 | 26.41 |
| 087F125-30 | 33 | 0.0312 | 0.115 | 0.392 | 0.014 | 0.352 | 0.0691 | 0.774 | 0.0143 | 0.0307 | 50.47 |
| 087F125-33 | 33 | 0.0346 | 0.127 | 0.433 | 0.016 | 0.351 | 0.0763 | 0.774 | 0.0157 | 0.0337 | 55.43 |

Notes:

- Hems and offset in flange, if present, are ingored.
- Design thickness used for determination of properties. Minimum delivered thickness must be no less than 95% of design thickness.
- Effective properties are given as the minimum value for positive or negative bending.

Hat Furring Channel Allowable Ceiling Spans – L/240

| Section | Fy (ksi) | | Uniform Load | | | | | | | | |
|------------|----------|----------|-----------------------|--------|--------|-----------------------|--------|-------|------------------------|--------|--------|
| | | | 4 psf Spacing (in) oc | | | 6 psf Spacing (in) oc | | | 13 psf Spacing (in) oc | | |
| | | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 087F125-18 | 33 | Single | 5' 2" | 4' 9" | 4' 1" | 4' 6" | 4' 1" | 3' 7" | 3' 6" | 3' 2" | 2' 9" |
| | | Multiple | 6' 5" | 5' 10" | 5' 1" | 5' 7" | 5' 1" | 4' 2" | 4' 0" | 3' 6" | 2' 10" |
| 087F125-30 | 33 | Single | 6' 2" | 5' 7" | 4' 11" | 5' 5" | 4' 11" | 4' 3" | 4' 2" | 3' 9" | 3' 4" |
| | | Multiple | 7' 7" | 6' 11" | 6' 1" | 6' 8" | 6' 1" | 5' 3" | 5' 2" | 4' 8" | 3' 11" |
| 087F125-33 | 33 | Single | 6' 4" | 5' 9" | 5' 1" | 5' 7" | 5' 1" | 4' 5" | 4' 4" | 3' 11" | 3' 5" |
| | | Multiple | 7' 10" | 7' 2" | 6' 3" | 6' 10" | 6' 3" | 5' 5" | 5' 4" | 4' 10" | 4' 1" |

Hat Furring Channel Allowable Ceiling Spans – L/360

| Section | Fy (ksi) | | Uniform Load | | | | | | | | |
|------------|----------|----------|-----------------------|--------|-------|-----------------------|-------|--------|------------------------|-------|--------|
| | | | 4 psf Spacing (in) oc | | | 6 psf Spacing (in) oc | | | 13 psf Spacing (in) oc | | |
| | | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 087F125-18 | 33 | Single | 4' 6" | 4' 1" | 3' 7" | 4' 0" | 3' 7" | 3' 2" | 3' 11" | 2' 9" | 2' 5" |
| | | Multiple | 5' 7" | 5' 1" | 4' 5" | 4' 11" | 4' 5" | 3' 11" | 3' 9" | 3' 5" | 2' 10" |
| 087F125-30 | 33 | Single | 5' 5" | 4' 11" | 4' 3" | 4' 8" | 4' 3" | 3' 9" | 3' 8" | 3' 4" | 2' 11" |
| | | Multiple | 6' 8" | 6' 1" | 5' 3" | 5' 10" | 5' 3" | 4' 7" | 4' 6" | 4' 1" | 3' 7" |
| 087F125-33 | 33 | Single | 5' 7" | 5' 1" | 4' 5" | 4' 10" | 4' 5" | 3' 10" | 3' 9" | 3' 5" | 3' 0" |
| | | Multiple | 6' 10" | 6' 3" | 5' 5" | 6' 0" | 5' 5" | 4' 9" | 4' 8" | 4' 3" | 3' 8" |

Notes:

- Single spans taken as the minimum span based on moment, shear, web crippling or deflection.
- Multiple spans indicate two or more equal, continuous spans with span length measured support to support.
- Multiple spans taken as the minimum span based on moment, shear, web crippling, deflection combined bending and shear or combined and web crippling.
- Web crippling values based on 1" bearing at end and interior supports.



STEEL FRAMING INDUSTRY ASSOCIATION

CODE COMPLIANCE CERTIFICATION PROGRAM

SFIA developed, an industry supported Code Compliance Certification Program endorsed by the Association of the Wall and Ceiling Industry. The program is accessible to all manufacturers to certify that structural and nonstructural cold-formed steel framing they produce complies with the IBC 2015 code requirements.

Structural and nonstructural cold-formed steel framing certification is administered and audited by an independent third Administrator meeting IAS AC98 requirements and demonstrating compliance with ISO/IEC Standard 17020.

The validation process includes a minimum of two unannounced manufacturing audits per year of each facility operated by a manufacturer, as well as on-going random selection and independent testing of certified structural and nonstructural cold-formed steel framing products.

| | | |
|--|---|---|
| | STRUCTURAL CERTIFIED CODE COMPLIANT TO ✓ IBC AND IRC ✓ ASTM C955 ✓ ASTM A1003/A1003M ✓ AISI S100 ✓ AISI S200 | IAS# AA-676 Independent Inspection by: intertek |
|--|---|---|

Steel Framing Industry Association—Service to the Industry

Manufacturing facilities that satisfy the requirements for certification are authorized to label structural and nonstructural cold-formed steel framing members they produce as “certified code compliant.” Check the updated list of Certified Production Facilities at Intertek’s website at <http://www.intertek.com/building/sfia/>.



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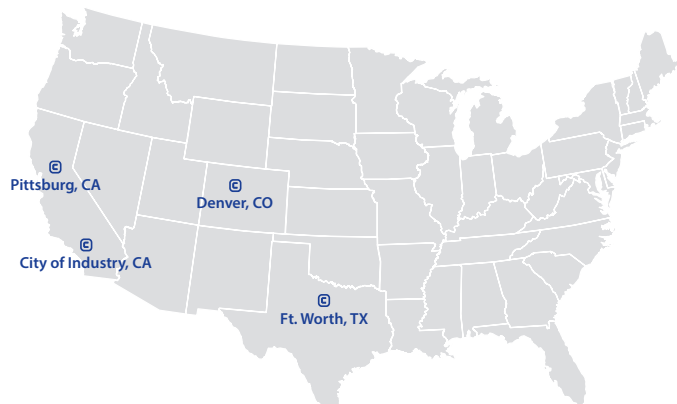
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