

PRODUCT CATALOG



 **StudRite**®

MARINO WARE®

YOUR SUCCESS DEPENDS ON QUALITY BUILDING PRODUCTS AND SO DOES OURS.

Marino\WARE® brings solutions to market for the steel framing industry. The StudRite® cold-formed steel framing system has one of the best strength-to-mass ratios of any stud in the industry. Designed for structural and non-structural application, the lip reinforced continuous triangular shaped knockouts provide increased structural performance and greater efficiency for mechanical, electrical and plumbing trades. As an added benefit, StudRite has been tested in multiple types of wall assemblies and achieved excellent acoustic ratings and reduced thermal transfer, and is fire-rated.

Marino\WARE is committed to providing a superior customer experience through a vast selection of readily available products, a knowledgeable sales team, comprehensive technical support and services, prompt delivery through our fleet of trucks, and an extensive distribution network.

CODE COMPLIANCE



TECHNICAL SERVICES + SUPPORT | *DesignGroup*

Our commitment to quality products extends to best-in-class design support. The Marino\WARE® DesignGroup™ offers a full range of technical support and engineering services, including professionally engineered stamped shop drawings, design and installation assistance on all Marino\WARE manufactured products, and expert advice on structural, nonstructural, fire and acoustic assemblies.

If you have questions or need more information on any of the products listed in this catalog, contact our Technical Services department at technicalservices@marinoware.com, or at 866.545.1545. In most cases Technical Services representatives can provide an immediate response.

Warranty & Limitations

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

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

Governing Law

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

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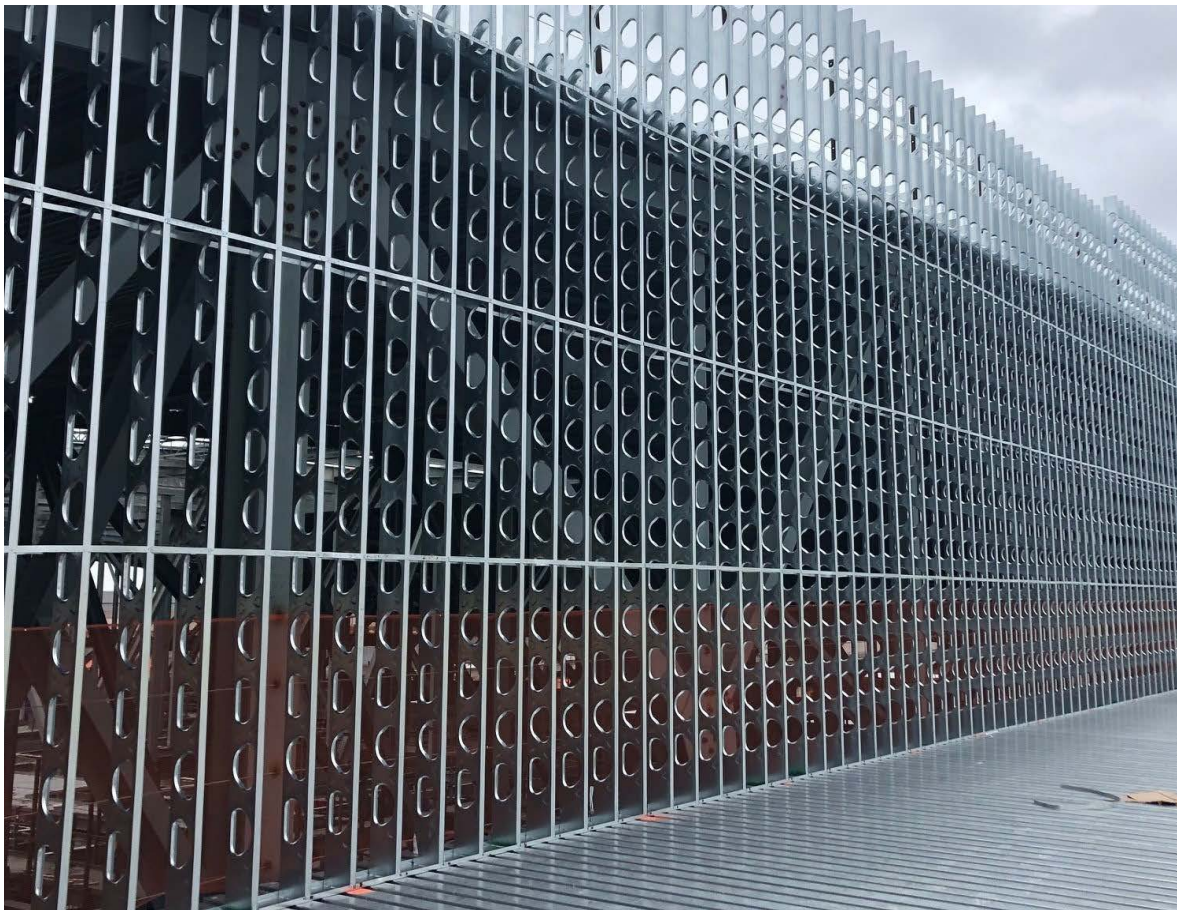
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For more information, please contact MarinoWARE® Technical Services at 866-545-1545.
This technical information reflects the most current information available and supersedes any and all previous publications effective May 22, 2023 | MW StudRite Technical Catalog | © WARE Industries, Inc. 2023



SUPERIOR ENGINEERED WALL SECTION

The StudRite® Wall System is a specially designed cold formed steel C-stud that has one of the best strength-to-mass ratios of any stud in the industry. It can be used to frame interior bearing and non-bearing walls, as well as the exterior walls without any limitations. Exterior applications include low rise bearing and high rise non-bearing.

StudRite® is also ideal for companies that build pre-fabricated wall panels. StudRite® significantly reduces the weight of pre-fabricated wall panels due to the large repetitive triangular cutouts. This technology reduces the weight of the stud significantly.

Triangular Cutout Technology

The StudRite® Wall System achieves maximum structural performance due to its lip reinforced repetitive triangular cutouts and embossments. These embossments and cutouts not only increase the structural performance of the wall but also greatly reduce thermal and sound transfer through the wall since a large percentage of the steel has been removed. Additionally, the open web design and the shape of the lip in the cutout make StudRite® easier and safer to handle.

One of the greatest attributes of the large triangular cutouts is the increased efficiencies for trade installation. Now for the first time, electricians, plumbers and HVAC installers can run their products right through the knockouts without cutting a single stud member. This technology has never been available before. Ordinarily a lot of time is wasted in cutting and reinforcing holes that have to be drilled or cut into steel wall studs. This new technology saves construction professionals valuable time and reduces labor costs. StudRite® is an ideal framing product for assisted living facilities, medical complexes, hospitals, single and multiple family homes and apartment buildings.

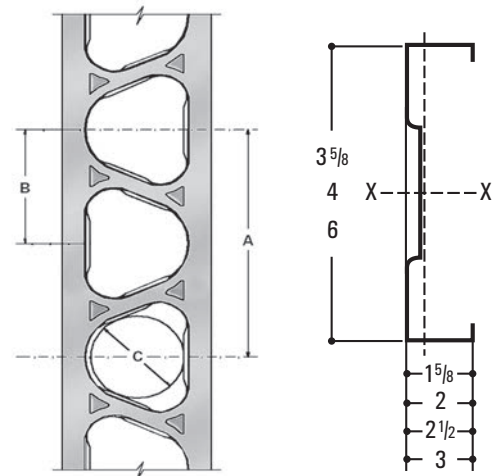
Design Flexibility

Architects, engineers and builders have the option to use stick or panel construction, or a combination of both. With StudRite® almost any structural design is possible. StudRite® is supplied in a complete range of sizes to meet engineering specifications for exterior wind-bearing walls or interior/exterior load-bearing walls and roof trusses. It is strong enough to support up to seven stories as a self-supporting load-bearing structure and can be utilized in much higher structures when used as an infill application. StudRite® can be supplied in precision lengths from the factory, saving time on the jobsite. The factory can even add solid sections anywhere along the length of the stud if desired.

HOLE SIZES:

| Section Depth in. | A | B | C |
|-------------------------|--------------|------------------|---------------------|
| | Pitch in. | 1/2 Pitch in. | Max Diameter in. |
| 3-5/8 | 7.0 | 3.5 | 1-3/4 |
| 4 | 7.0 | 3.5 | 1-3/4 |
| 6 | 8.1 | 4.0 | 2-7/8 |
| 8* | 14.0 | 7.0 | 5-1/2 |

* check with factory for confirmation of hole size used.



1. The information contained in this catalog is intended as a general guide only and all designs shall be verified by a design professional having experience with cold-formed steel design.
2. The data in this catalog is based on allowable strength design (ASD) of the 2016 Edition of the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-16 (S100) as referenced by the 2018 and 2021 International Building Code (IBC).
3. A rational engineering analysis was used with confirmatory tests in accordance with Section A.1.2(b) of S100. All confirmatory tests were carried out at the STaR Structural Testing Laboratory in Cambridge, Ontario, Canada.
4. The effective moment of inertia for deflection is calculated at a stress of $0.6 F_y$.
5. Various sections may be manufactured with yield stresses of 33, 40 or 50 ksi. The yield stress used for calculations is indicated in the tables.
6. For sections available in both 33, 40 and 50 ksi, the specifier must clearly indicate which yield stress is required. For example: 362SR162-54 (50 ksi).
7. Review IAMPO ES ER-781 for additional product information and usage.
8. Review fire rated assemblies for additional requirements for installation.



THERMAL

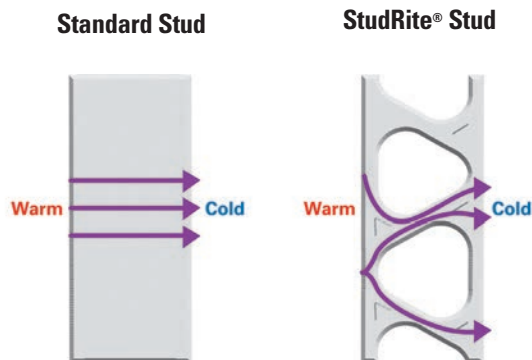
The open web design of StudRite® sections reduces conductivity, thereby enhancing thermal efficiency. We compared 6" 16 gauge StudRite® to 6" conventional stud and StudRite® has 15% less heat flow.

FIRE

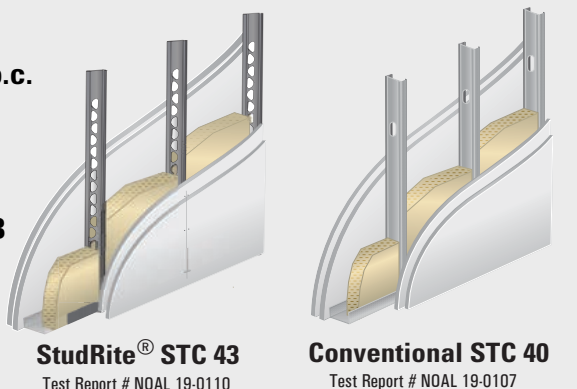
Extensive fire tests have been performed at UL laboratories with the StudRite® Wall system classified in 1, 2, 3 & 4 hour non-load bearing assemblies. Additionally, StudRite® is listed in UL V457 for 1, 2 & 3 hour bearing wall, and exterior wall assemblies. See page 8 for the full list of non-load bearing assemblies.

ACOUSTIC

StudRite® has been tested to ASTM E90 in multiple types of wall assemblies, achieving excellent acoustic ratings. Listing of results is located on page 8. Additional comparison tests of 6" StudRite® 16 gauge versus conventional 16 gauge stud shows that StudRite® has an improved STC rating of 3 points.



- 6 inch stud - 16" o.c.
- 6 inch fiberglass
- 2 layers 5/8" GWB both sides



DURABILITY

StudRite® will not swell, warp, burn, rot, attract or support insect (termite) infestations and mold growth.

Available Grades of Steel and Finish

- 18, 30, 33 & 43 mils: $F_y = 33$ or 40 ksi
Coating G40, G40EQ, G60, G90
- 54, 68, 97 mils: $F_y = 50$ ksi
Coating G60, G90

LENGTHS

Precut stud lengths are stocked, while custom length sizes are available upon request. Shorter lengths may be cut in the field. Contact Technical Services for questions on cutting.



| Physical Properties | | | | | Net Properties | | | | | | | Net Effective Properties | | | | Torsional Properties | | | | | |
|---------------------|-----------|---------|----------------------|--------------|-------------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-------------------------------------|------------------------------------------------|-----------------------|----------------------|----------------------------------------|-----------------------------------|----------------------|---------|----------------------|-------|----------------------|
| Member | Lip (in.) | t (in.) | F _y (ksi) | Weight (plf) | Area (in ²) | I _x (in ⁴) | S _x (in ³) | r _x (in.) | I _y (in ⁴) | r _y (in.) | I _{xed} (in ⁴) | S _{x_{xe}} (in ³) | M _a (k-in) | V _a (kip) | J x 10 ³ (in ⁴) | C _w (in ⁶) | x _o (in.) | m (in.) | r _o (in.) | β | L _u (in.) |
| 362SR125-18 | 0.25 | 0.0190 | 40 | 0.36 | 0.100 | 0.240 | 0.132 | 1.55 | 0.0187 | 0.432 | 0.219 | 0.104 | 1.87 | 0.094 | 0.0118 | 0.0584 | -0.951 | 0.532 | 1.87 | 0.740 | 25.6 |
| 362SR125-30 | 0.25 | 0.0312 | 40 | 0.59 | 0.165 | 0.392 | 0.216 | 1.54 | 0.0300 | 0.426 | 0.383 | 0.188 | 3.84 | 0.219 | 0.0535 | 0.0929 | -0.938 | 0.524 | 1.85 | 0.744 | 25.4 |
| 362SR125-33 | 0.25 | 0.0346 | 40 | 0.65 | 0.182 | 0.432 | 0.239 | 1.54 | 0.0329 | 0.425 | 0.424 | 0.214 | 4.43 | 0.262 | 0.0727 | 0.102 | -0.934 | 0.522 | 1.85 | 0.745 | 25.3 |
| 362SR125-43 | 0.25 | 0.0451 | 40 | 0.84 | 0.235 | 0.556 | 0.307 | 1.54 | 0.0416 | 0.420 | 0.556 | 0.293 | 6.38 | 0.419 | 0.160 | 0.128 | -0.923 | 0.515 | 1.84 | 0.749 | 25.2 |
| 400SR125-18 | 0.25 | 0.0188 | 40 | 0.38 | 0.107 | 0.302 | 0.151 | 1.68 | 0.0199 | 0.430 | 0.277 | 0.120 | 2.09 | 0.094 | 0.0127 | 0.0735 | -0.904 | 0.512 | 1.95 | 0.786 | 25.8 |
| 400SR125-30 | 0.25 | 0.0312 | 40 | 0.63 | 0.176 | 0.494 | 0.247 | 1.67 | 0.0318 | 0.425 | 0.483 | 0.216 | 4.30 | 0.219 | 0.0573 | 0.117 | -0.891 | 0.504 | 1.94 | 0.790 | 25.5 |
| 400SR125-33 | 0.25 | 0.0346 | 40 | 0.69 | 0.195 | 0.545 | 0.273 | 1.67 | 0.0350 | 0.423 | 0.535 | 0.246 | 4.98 | 0.262 | 0.0779 | 0.128 | -0.887 | 0.502 | 1.94 | 0.791 | 25.5 |
| 400SR125-43 | 0.25 | 0.0451 | 40 | 0.90 | 0.252 | 0.701 | 0.350 | 1.67 | 0.0442 | 0.419 | 0.701 | 0.336 | 7.20 | 0.419 | 0.171 | 0.161 | -0.877 | 0.496 | 1.93 | 0.794 | 25.3 |
| 600SR125-18 | 0.25 | 0.0188 | 40 | 0.46 | 0.119 | 0.776 | 0.259 | 2.55 | 0.0216 | 0.426 | 0.718 | 0.210 | 2.93 | 0.094 | 0.0141 | 0.180 | -0.799 | 0.459 | 2.71 | 0.913 | 25.1 |
| 600SR125-30 | 0.25 | 0.0312 | 40 | 0.76 | 0.197 | 1.27 | 0.424 | 2.54 | 0.0347 | 0.420 | 1.25 | 0.376 | 6.25 | 0.219 | 0.0638 | 0.287 | -0.786 | 0.451 | 2.70 | 0.915 | 24.9 |
| 600SR125-33 | 0.25 | 0.0346 | 40 | 0.84 | 0.217 | 1.41 | 0.468 | 2.54 | 0.0381 | 0.419 | 1.38 | 0.427 | 7.29 | 0.262 | 0.0868 | 0.315 | -0.783 | 0.449 | 2.69 | 0.915 | 24.8 |
| 600SR125-43 | 0.25 | 0.0451 | 40 | 1.09 | 0.281 | 1.81 | 0.604 | 2.54 | 0.0482 | 0.414 | 1.81 | 0.580 | 10.8 | 0.419 | 0.191 | 0.397 | -0.773 | 0.443 | 2.68 | 0.917 | 24.6 |

Notes:

- The centerline bend radius is based on the inside bend radius in the steel thickness table.
- Net section properties are taken through any punchout location without consideration of local buckling in edge stiffener or flange.
- Net effective section properties are taken through any punchout location with consideration of local buckling in edge stiffener and flange.
- For deflection calculations, use effective moment of inertia.
- t = design thickness.

StudRite® Identification System

Below is our color coded Identification System as it complies with industry standards.



| MILS | DESIGN (IN.) | MINIMUM (IN.) | GAUGE | COLOR CODE |
|------|--------------|---------------|-------|------------|
| 18 | 0.0188 | 0.0179 | 25 | NONE |
| 30 | 0.0312 | 0.0296 | 20DW | PINK |
| 33 | 0.0346 | 0.0329 | 20STR | WHITE |
| 43 | 0.0451 | 0.0428 | 18 | YELLOW |
| 54 | 0.0566 | 0.0538 | 16 | GREEN |
| 68 | 0.0713 | 0.0677 | 14 | ORANGE |
| 97 | 0.1017 | 0.0966 | 12 | RED |
| 118 | 0.1242 | 0.1180 | 10 | BLUE |

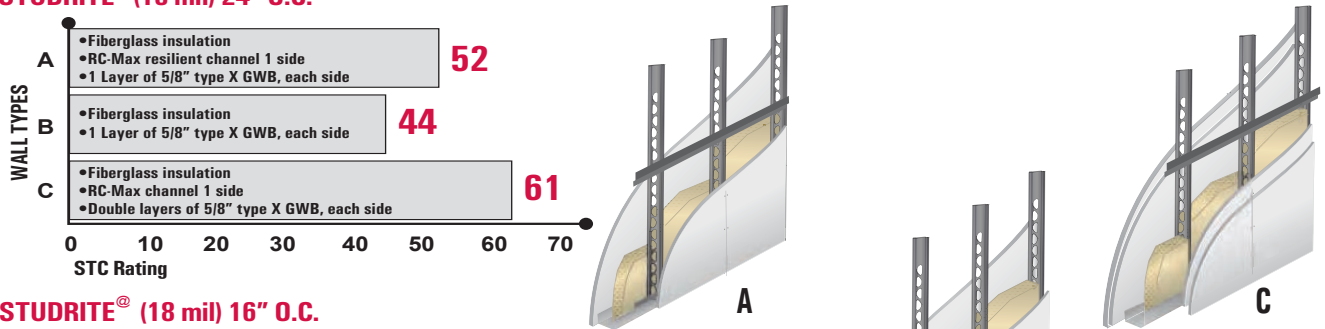
Symbols & Definitions

- F_y Minimum guaranteed yield stress
- I_x Moment of inertia of net section about x-axis
- S_x Section modulus of net section about x-axis
- r_x Radius of gyration of net section about x-axis
- I_y Moment of inertia of net section about y-axis
- r_y Radius of gyration of net section about y-axis
- I_{xed} Effective moment of inertia of net section about x-axis based on a stress of 0.6F_y (deflection determination)
- S_{x_{xe}} Effective section modulus of net section about x-axis based on a stress of F_y (strength determination)
- M_a Allowable bending moment
- V_a Allowable shear force
- J Saint-Venant torsion constant of net section
- C_w Torsional warping constant of net section
- r_o Polar radius of gyration of net section about shear
- x_o Distance from centroid the shear center in principle x-axis direction
- m Distance from shear center to mid-plane of web of C-section
- β 1 - (x_o/r_o)²
- L_u Limit of unbraced length below which lateral-torsional buckling is not considered

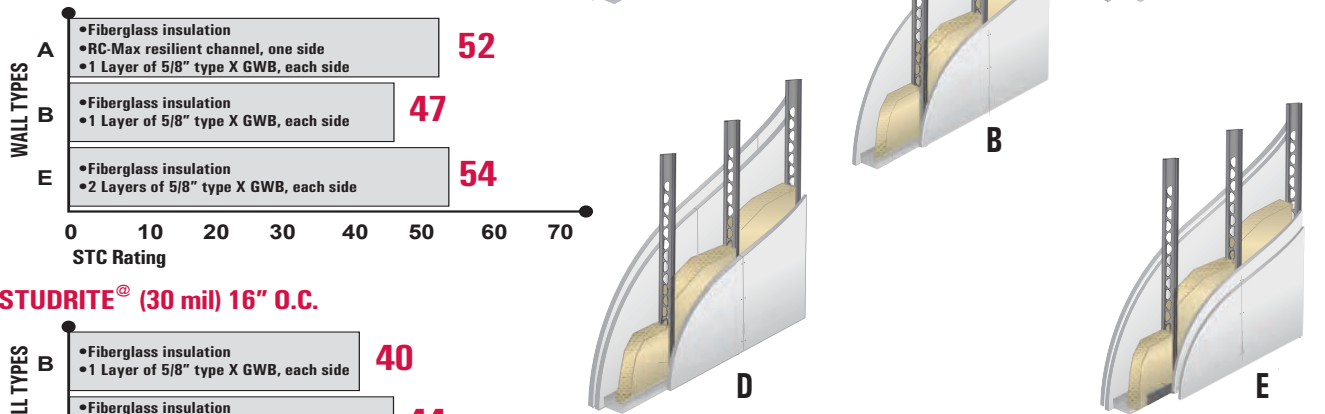
Sound Testing

(Sound Test Reports available from Technical Services)

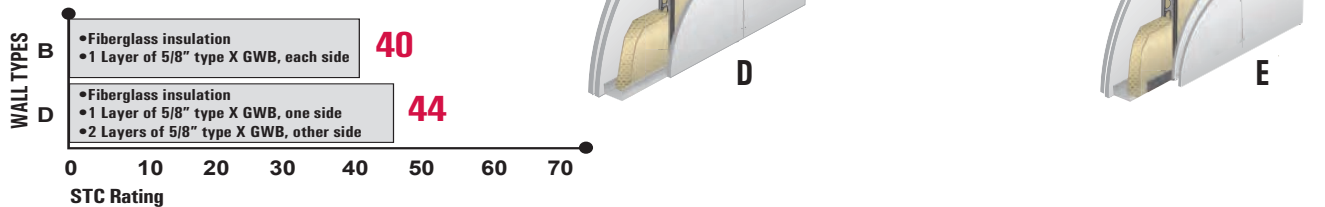
3 5/8" STUDDRITE® (18 mil) 24" O.C.



3 5/8" STUDDRITE® (18 mil) 16" O.C.



3 5/8" STUDDRITE® (30 mil) 16" O.C.



FIRE TESTING DATA (ASTM E119)

| STUDDRITE® DESIGN NOS. | WALL RATING | STUDDRITE® DESIGN NOS. | WALL RATING | STUDDRITE® DESIGN NOS. | WALL RATING |
|------------------------|-----------------|------------------------|-----------------|------------------------|-----------------|
| U403 | 2 HR | U475 | 1, 2, 3 or 4 HR | V443 | 4 HR |
| U407 | 1/2 or 1 HR | U478 | 3 HR | V444 | 1 HR |
| U408 | 2 HR | U491 | 2 HR | V448 | 1 HR |
| U411 | 2 HR | U494 | 1 HR | V449 | 2 HR |
| U412 | 2 HR | U495 | 1 or 2 HR | V452 | 1 and 2 HR |
| U419 | 1, 2, 3 or 4 HR | U496 | 1 HR | V469 | 1 and 2 HR |
| U421 | 2 HR | V410 | 2 HR | V476 | 1, 3 or 4 HR |
| U431 | 4 HR | V412 | 2 HR | V477 | 1, 2, 3 or 4 HR |
| U435 | 3 HR or 4 HR | V416 | 1 HR | V496 | 1 or 2 HR |
| U450 | 1, 3 or 4 HR | V417 | 1 HR | V498 | 1, 2, 3 or 4 HR |
| U451 | 1 HR | V418 | 2 HR | W411 | 1/2 or 1 HR |
| U454 | 2 HR | V419 | 2 HR | W415 | 1 or 2 HR |
| U463 | 3 or 4 HR | V425 | 1 HR | W424 | 1/2 or 1 HR |
| U466 | 1 HR | V435 | 1 HR | W433 | 1/2 HR |
| U465 | 1 HR | V437 | 1 HR | W440 | 1, 2, 3 or 4 HR |
| U471 | 1-1/2 HR | V438 | 1, 2, 3 or 4 HR | | |

Notes:
 1. 3-5/8", 18 mil is the minimum web and thickness. All heavier and deeper sections qualify.
 2. Gypsum wallboard can be either vertical or horizontal, without joints backed.



| MEMBER | GAUGE | Spacing o.c. (in.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-----------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 362SR125-18 | 25 | 12 | 21' 6" | 17' 9" | 15' 6" | 17' 6" | 15' 6" | 13' 7" | 15' 2" | 14' 1" | 12' 4" |
| | | 16 | 18' 7" | 16' 2" | 14' 1" | 15' 2" | 14' 1" | 12' 4" | 13' 2" | 12' 10" | 11' 1" |
| | | 24 | 15' 2" | 14' 1" | 12' 4" | 12' 4" | 12' 4" | 10' 7" | 10' 9" | 10' 9" | 9' 5" |
| 362SR125-30 | 20DW | 12 | 23' 5" | 18' 7" | 16' 3" | 20' 6" | 16' 3" | 14' 2" | 18' 7" | 14' 9" | 12' 11" |
| | | 16 | 21' 3" | 16' 11" | 14' 9" | 18' 7" | 14' 9" | 12' 11" | 16' 11" | 13' 5" | 11' 8" |
| | | 24 | 18' 7" | 14' 9" | 12' 11" | 16' 3" | 12' 11" | 11' 2" | 14' 9" | 11' 8" | 9' 11" |
| 362SR125-33 | 20STR | 12 | 24' 4" | 19' 4" | 16' 10" | 21' 3" | 16' 10" | 14' 9" | 19' 4" | 15' 4" | 13' 5" |
| | | 16 | 22' 1" | 17' 7" | 15' 4" | 19' 4" | 15' 4" | 13' 5" | 17' 7" | 13' 11" | 12' 2" |
| | | 24 | 19' 4" | 15' 4" | 13' 5" | 16' 10" | 13' 5" | 11' 8" | 15' 4" | 12' 2" | 10' 4" |
| 362SR125-43 | 18 | 12 | 27' 1" | 21' 6" | 18' 9" | 23' 8" | 18' 9" | 16' 5" | 21' 6" | 17' 0" | 14' 11" |
| | | 16 | 24' 7" | 19' 6" | 17' 0" | 21' 6" | 17' 0" | 14' 11" | 19' 6" | 15' 6" | 13' 6" |
| | | 24 | 21' 6" | 17' 0" | 14' 11" | 18' 9" | 14' 11" | 12' 10" | 14' 4" | 13' 6" | - |

| MEMBER | GAUGE | Spacing o.c. (in.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 400SR125-18 | 25 | 12 | 22' 5" | 18' 9" | 16' 5" | 18' 3" | 16' 5" | 14' 4" | 15' 10" | 14' 11" | 13' 0" |
| | | 16 | 19' 5" | 17' 1" | 14' 11" | 15' 10" | 14' 11" | 13' 0" | 13' 9" | 13' 6" | 11' 10" |
| | | 24 | 15' 10" | 14' 11" | 13' 0" | 12' 11" | 12' 11" | 11' 4" | 11' 2" | 11' 2" | 10' 2" |
| 400SR125-30 | 20DW | 12 | 25' 3" | 20' 0" | 17' 6" | 22' 0" | 17' 6" | 15' 3" | 20' 0" | 15' 10" | 13' 10" |
| | | 16 | 22' 11" | 18' 2" | 15' 10" | 20' 0" | 15' 10" | 13' 10" | 18' 2" | 14' 5" | 12' 7" |
| | | 24 | 20' 0" | 15' 10" | 13' 10" | 17' 6" | 13' 10" | 12' 1" | 15' 10" | 12' 7" | 10' 10" |
| 400SR125-33 | 20STR | 12 | 26' 3" | 20' 10" | 18' 2" | 22' 11" | 18' 2" | 15' 11" | 20' 10" | 16' 6" | 14' 5" |
| | | 16 | 23' 10" | 18' 11" | 16' 6" | 20' 10" | 16' 6" | 14' 5" | 18' 11" | 15' 0" | 13' 1" |
| | | 24 | 20' 10" | 16' 6" | 14' 5" | 18' 2" | 14' 5" | 12' 7" | 16' 6" | 13' 1" | 11' 5" |
| 400SR125-43 | 18 | 12 | 29' 7" | 23' 6" | 20' 6" | 25' 10" | 20' 6" | 17' 11" | 23' 6" | 18' 8" | 16' 3" |
| | | 16 | 26' 11" | 21' 4" | 18' 8" | 23' 6" | 18' 8" | 16' 3" | 21' 4" | 16' 11" | 14' 9" |
| | | 24 | 23' 6" | 18' 8" | 16' 3" | 20' 6" | 16' 3" | 14' 3" | 18' 8" | 14' 9" | 12' 10" |

| MEMBER | GAUGE | Spacing o.c. (in.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 600SR125-18 | 25 | 12 | 27' 9" | 24' 9" | 21' 8" | 22' 8" | 21' 8" | 18' 11" | 19' 7" | 19' 7" | 17' 2" |
| | | 16 | 24' 0" | 22' 6" | 19' 8" | 19' 7" | 19' 7" | 17' 2" | 17' 0" | 17' 0" | 15' 7" |
| | | 24 | 19' 7" | 19' 7" | 17' 2" | 16' 0" | 16' 0" | 14' 11" | 13' 10" | 13' 10" | 13' 5" |
| 600SR125-30 | 20DW | 12 | 33' 7" | 26' 8" | 23' 4" | 29' 4" | 23' 4" | 20' 4" | 26' 8" | 21' 2" | 18' 6" |
| | | 16 | 30' 6" | 24' 3" | 21' 2" | 26' 8" | 21' 2" | 18' 6" | 24' 3" | 19' 3" | 16' 9" |
| | | 24 | 26' 8" | 21' 2" | 18' 6" | 23' 4" | 18' 6" | 16' 2" | 21' 2" | 16' 9" | 14' 6" |
| 600SR125-33 | 20STR | 12 | 34' 9" | 27' 6" | 24' 1" | 30' 4" | 24' 1" | 21' 0" | 27' 6" | 21' 10" | 19' 1" |
| | | 16 | 31' 6" | 25' 0" | 21' 10" | 27' 6" | 21' 10" | 19' 1" | 25' 0" | 19' 10" | 17' 4" |
| | | 24 | 27' 6" | 21' 10" | 19' 1" | 24' 1" | 19' 1" | 16' 8" | 21' 10" | 17' 4" | 15' 1" |
| 600SR125-43 | 18 | 12 | 38' 11" | 30' 10" | 26' 11" | 34' 0" | 26' 11" | 23' 6" | 30' 10" | 24' 6" | 21' 5" |
| | | 16 | 35' 4" | 28' 0" | 24' 6" | 30' 10" | 24' 6" | 21' 5" | 28' 0" | 22' 3" | 19' 5" |
| | | 24 | 30' 10" | 24' 6" | 21' 5" | 26' 11" | 21' 5" | 18' 8" | 22' 4" | 19' 5" | 16' 10" |

Notes:

1. Composite limiting wall heights are based on testing in accordance with ICC-ES AC86-2019.
2. No screws are required between stud and track, except as required by ASTM C754.
3. Composite heights are based on a single layer of 5/8" type X gypsum board applied vertically to both sides of the wall, over the full height.
4. Composite limiting heights are based on studs cut through the center of the punchout.
5. Composite limiting heights are based on standard top track with gypsum board mechanically attached to the track. For deflection track usage contact Technical Services.
6. See IAMPO ES ER-781 for additional information. Review fire rated assemblies for additional requirements.

| MEMBER | GAUGE | L _u (in.) | Spacing (in. o.c.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-------------------------|-----------------------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| | | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 362RS125-18 | 25 | 25.6 | 12 | 16' 1" | 14' 2" | 12' 4" | 13' 1" | 12' 4" | 10' 9" | 11' 4" | 11' 3" | 9' 10" |
| | | | 16 | 13' 10" | 12' 10" | 11' 3" | 11' 4" | 11' 3" | 9' 10" | 9' 9" | 9' 9" | 9' 0" |
| | | | 24 | 11' 4" | 11' 3" | 9' 10" | 9' 3" | 9' 3" | 8' 7" | 8' 0" | 8' 0" | 7' 9" |
| 362SR125-30 | 20DW | 25.4 | 12 | 21' 7" | 17' 1" | 15' 0" | 18' 9" | 15' 0" | 13' 1" | 16' 3" | 13' 7" | 11' 10" |
| | | | 16 | 19' 7" | 15' 7" | 13' 7" | 16' 3" | 13' 7" | 11' 10" | 14' 1" | 12' 3" | 10' 9" |
| | | | 24 | 16' 3" | 13' 7" | 11' 10" | 13' 3" | 11' 10" | 10' 4" | 11' 6" | 10' 9" | 9' 4" |
| 362SR125-33 | 20STR | 25.3 | 12 | 22' 3" | 17' 8" | 15' 6" | 19' 6" | 15' 6" | 13' 6" | 17' 6" | 14' 1" | 12' 3" |
| | | | 16 | 20' 3" | 16' 1" | 14' 1" | 17' 6" | 14' 1" | 12' 3" | 15' 2" | 12' 9" | 11' 2" |
| | | | 24 | 17' 6" | 14' 1" | 12' 3" | 14' 3" | 12' 3" | 10' 8" | 12' 4" | 11' 2" | 9' 8" |
| 362SR125-43 | 18 | 25.2 | 12 | 24' 4" | 19' 4" | 16' 10" | 21' 3" | 16' 10" | 14' 9" | 19' 4" | 15' 4" | 13' 4" |
| | | | 16 | 22' 2" | 17' 7" | 15' 4" | 19' 4" | 15' 4" | 13' 4" | 17' 7" | 14' 0" | 12' 2" |
| | | | 24 | 19' 4" | 15' 4" | 13' 4" | 16' 10" | 13' 4" | 11' 8" | 14' 9" | 12' 2" | 10' 8" |

| MEMBER | GAUGE | L _u (in.) | Spacing (in. o.c.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-------------------------|-----------------------|---------|---------|--------|---------|---------|--------|---------|---------|--------|
| | | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 400SR125-18 | 25 | 25.8 | 12 | 16' 10" | 15' 4" | 13' 4" | 13' 9" | 13' 4" | 11' 8" | 11' 10" | 11' 10" | 10' 8" |
| | | | 16 | 14' 7" | 14' 0" | 12' 2" | 11' 10" | 11' 10" | 10' 8" | 10' 3" | 10' 3" | 9' 8" |
| | | | 24 | 11' 10" | 11' 10" | 10' 8" | 9' 9" | 9' 9" | 9' 3" | 8' 4" | 8' 4" | 8' 4" |
| 400SR125-30 | 20DW | 25.5 | 12 | 23' 3" | 18' 6" | 16' 2" | 19' 9" | 16' 2" | 14' 1" | 17' 2" | 14' 8" | 12' 9" |
| | | | 16 | 21' 0" | 16' 9" | 14' 8" | 17' 2" | 14' 8" | 12' 9" | 14' 10" | 13' 3" | 11' 8" |
| | | | 24 | 17' 2" | 14' 8" | 12' 9" | 14' 0" | 12' 9" | 11' 2" | 12' 1" | 11' 8" | 10' 2" |
| 400SR125-33 | 20STR | 25.5 | 12 | 24' 1" | 19' 1" | 16' 8" | 21' 1" | 16' 8" | 14' 7" | 18' 6" | 15' 2" | 13' 3" |
| | | | 16 | 21' 10" | 17' 4" | 15' 2" | 18' 6" | 15' 2" | 13' 3" | 16' 0" | 13' 9" | 12' 1" |
| | | | 24 | 18' 6" | 15' 2" | 13' 3" | 15' 1" | 13' 3" | 11' 7" | 13' 1" | 12' 1" | 10' 6" |
| 400SR125-43 | 18 | 25.3 | 12 | 26' 4" | 20' 10" | 18' 3" | 23' 1" | 18' 3" | 16' 0" | 20' 10" | 16' 7" | 14' 6" |
| | | | 16 | 24' 0" | 19' 0" | 16' 7" | 20' 10" | 16' 7" | 14' 6" | 19' 0" | 15' 1" | 13' 2" |
| | | | 24 | 20' 10" | 16' 7" | 14' 6" | 18' 1" | 14' 6" | 12' 8" | 15' 8" | 13' 2" | 11' 6" |

| MEMBER | GAUGE | L _u (in.) | Spacing (in. o.c.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 600SR125-18 | 25 | 25.1 | 12 | 20' 2" | 20' 2" | 18' 4" | 16' 6" | 16' 6" | 16' 1" | 14' 3" | 14' 3" | 14' 3" |
| | | | 16 | 17' 6" | 17' 6" | 16' 9" | 14' 3" | 14' 3" | 14' 3" | 12' 4" | 12' 4" | 12' 4" |
| | | | 24 | 14' 3" | 14' 3" | 14' 3" | 11' 7" | 11' 7" | 11' 7" | 9' 4" | 9' 4" | 9' 4" |
| 600SR125-30 | 20DW | 24.9 | 12 | 29' 6" | 25' 4" | 22' 2" | 24' 1" | 22' 2" | 19' 4" | 20' 9" | 20' 2" | 17' 7" |
| | | | 16 | 25' 6" | 23' 1" | 20' 2" | 20' 9" | 20' 2" | 17' 7" | 18' 0" | 18' 0" | 16' 0" |
| | | | 24 | 20' 9" | 20' 2" | 17' 7" | 17' 0" | 17' 0" | 15' 4" | 14' 8" | 14' 8" | 14' 0" |
| 600SR125-33 | 20STR | 24.8 | 12 | 31' 9" | 26' 3" | 22' 10" | 26' 0" | 22' 10" | 20' 0" | 22' 6" | 20' 9" | 18' 2" |
| | | | 16 | 27' 7" | 23' 10" | 20' 9" | 22' 6" | 20' 9" | 18' 2" | 19' 6" | 18' 10" | 16' 6" |
| | | | 24 | 22' 6" | 20' 9" | 18' 2" | 18' 4" | 18' 2" | 15' 10" | 15' 10" | 15' 10" | 14' 4" |
| 600SR125-43 | 18 | 24.6 | 12 | 36' 2" | 28' 8" | 25' 1" | 31' 7" | 25' 1" | 21' 10" | 27' 4" | 22' 9" | 19' 10" |
| | | | 16 | 32' 10" | 26' 1" | 22' 9" | 27' 4" | 22' 9" | 19' 10" | 23' 8" | 20' 8" | 18' 1" |
| | | | 24 | 27' 4" | 22' 9" | 19' 10" | 22' 4" | 19' 10" | 17' 4" | 19' 4" | 18' 1" | 15' 9" |

Notes:

1. Studs are assumed to be fully braced on both sides by sheathing, or braced at a maximum spacing of L_u or a combination of both.
2. Non-composite limiting heights are based on studs cut through the center of the punchout.
3. Use non-composite fully braced table with 1/2" gypsum board or horizontal gypsum board. Also use for RC and/or furring channel (with or without sound clips) spaced at less than L_u.
4. See IAMPO ES ER-781 for additional information. Review fire rated assemblies for additional requirements.

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

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| MEMBER | GAUGE | L _u (in.) | Spacing (in. o.c.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-------------------------|-----------------------|--------|---------|---------|---------|---------|---------|---------|--------|---------|
| | | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 362SR125-18 | 25 | 25.6 | 12 | 15' 6" | 14' 2" | 12' 4" | 12' 8" | 12' 4" | 10' 9" | 11' 0" | 11' 0" | 9' 10" |
| | | | 16 | 13' 4" | 12' 10" | 11' 3" | 11' 0" | 11' 0" | 9' 10" | 9' 6" | 9' 6" | 9' 0" |
| | | | 24 | 11' 0" | 11' 0" | 9' 10" | 8' 10" | 8' 10" | 8' 7" | 7' 8" | 7' 8" | 7' 8" |
| 362SR125-30 | 20DW | 25.4 | 12 | 20' 9" | 17' 1" | 15' 0" | 17' 0" | 15' 0" | 13' 1" | 14' 8" | 13' 7" | 11' 10" |
| | | | 16 | 18' 0" | 15' 7" | 13' 7" | 14' 8" | 13' 7" | 11' 10" | 12' 8" | 12' 3" | 10' 9" |
| | | | 24 | 14' 8" | 13' 7" | 11' 10" | 12' 0" | 11' 10" | 10' 4" | 10' 4" | 10' 4" | 9' 4" |
| 362SR125-33 | 20STR | 25.3 | 12 | 22' 2" | 17' 8" | 15' 6" | 18' 1" | 15' 6" | 13' 6" | 15' 8" | 14' 1" | 12' 3" |
| | | | 16 | 19' 2" | 16' 1" | 14' 1" | 15' 8" | 14' 1" | 12' 3" | 13' 7" | 12' 9" | 11' 2" |
| | | | 24 | 15' 8" | 14' 1" | 12' 3" | 12' 9" | 12' 3" | 10' 8" | 11' 1" | 11' 1" | 9' 8" |
| 362SR125-43 | 18 | 25.2 | 12 | 24' 4" | 19' 4" | 16' 10" | 21' 2" | 16' 10" | 14' 9" | 18' 4" | 15' 4" | 13' 4" |
| | | | 16 | 22' 2" | 17' 7" | 15' 4" | 18' 4" | 15' 4" | 13' 4" | 15' 10" | 14' 0" | 12' 2" |
| | | | 24 | 18' 4" | 15' 4" | 13' 4" | 15' 0" | 13' 4" | 11' 8" | 13' 0" | 12' 2" | 10' 8" |

| MEMBER | GAUGE | L _u (in.) | Spacing (in. o.c.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-------------------------|-----------------------|--------|---------|--------|---------|--------|--------|---------|---------|--------|
| | | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 400SR125-18 | 25 | 25.8 | 12 | 16' 8" | 15' 4" | 13' 4" | 13' 7" | 13' 4" | 11' 8" | 11' 9" | 11' 9" | 10' 8" |
| | | | 16 | 14' 4" | 14' 0" | 12' 2" | 11' 9" | 11' 9" | 10' 8" | 10' 2" | 10' 2" | 9' 8" |
| | | | 24 | 11' 9" | 11' 9" | 10' 8" | 9' 7" | 9' 7" | 9' 3" | 8' 3" | 8' 3" | 8' 3" |
| 400SR125-30 | 20DW | 25.5 | 12 | 22' 3" | 18' 6" | 16' 2" | 18' 2" | 16' 2" | 14' 1" | 15' 9" | 14' 8" | 12' 9" |
| | | | 16 | 19' 3" | 16' 9" | 14' 8" | 15' 9" | 14' 8" | 12' 9" | 13' 8" | 13' 3" | 11' 8" |
| | | | 24 | 15' 9" | 14' 8" | 12' 9" | 12' 10" | 12' 9" | 11' 2" | 11' 2" | 11' 2" | 10' 2" |
| 400SR125-33 | 20STR | 25.5 | 12 | 23' 9" | 19' 1" | 16' 8" | 19' 4" | 16' 8" | 14' 7" | 16' 9" | 15' 2" | 13' 3" |
| | | | 16 | 20' 7" | 17' 4" | 15' 2" | 16' 9" | 15' 2" | 13' 3" | 14' 7" | 13' 9" | 12' 1" |
| | | | 24 | 16' 9" | 15' 2" | 13' 3" | 13' 9" | 13' 3" | 11' 7" | 11' 10" | 11' 10" | 10' 6" |
| 400SR125-43 | 18 | 25.3 | 12 | 26' 4" | 20' 10" | 18' 3" | 22' 8" | 18' 3" | 16' 0" | 19' 8" | 16' 7" | 14' 6" |
| | | | 16 | 24' 0" | 19' 0" | 16' 7" | 19' 8" | 16' 7" | 14' 6" | 17' 0" | 15' 1" | 13' 2" |
| | | | 24 | 19' 8" | 16' 7" | 14' 6" | 16' 1" | 14' 6" | 12' 8" | 13' 10" | 13' 2" | 11' 6" |

| MEMBER | GAUGE | L _u (in.) | Spacing (in. o.c.) | 5 psf | | | 7.5 psf | | | 10 psf | | |
|-------------|-------|-------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 600SR125-18 | 25 | 25.1 | 12 | 20' 2" | 20' 2" | 18' 4" | 16' 6" | 16' 6" | 16' 1" | 14' 3" | 14' 3" | 14' 3" |
| | | | 16 | 17' 6" | 17' 6" | 16' 9" | 14' 3" | 14' 3" | 14' 3" | 12' 4" | 12' 4" | 12' 4" |
| | | | 24 | 14' 3" | 14' 3" | 14' 3" | 11' 7" | 11' 7" | 11' 7" | 9' 4" | 9' 4" | 9' 4" |
| 600SR125-30 | 20DW | 24.9 | 12 | 29' 0" | 25' 4" | 22' 2" | 23' 8" | 22' 2" | 19' 4" | 20' 6" | 20' 2" | 17' 7" |
| | | | 16 | 25' 1" | 23' 1" | 20' 2" | 20' 6" | 20' 2" | 17' 7" | 17' 9" | 17' 9" | 16' 0" |
| | | | 24 | 20' 6" | 20' 2" | 17' 7" | 16' 8" | 16' 8" | 15' 4" | 14' 6" | 14' 6" | 14' 0" |
| 600SR125-33 | 20STR | 24.8 | 12 | 30' 10" | 26' 3" | 22' 10" | 25' 2" | 22' 10" | 20' 0" | 21' 9" | 20' 9" | 18' 2" |
| | | | 16 | 26' 8" | 23' 10" | 20' 9" | 21' 9" | 20' 9" | 18' 2" | 18' 10" | 18' 10" | 16' 6" |
| | | | 24 | 21' 9" | 20' 9" | 18' 2" | 17' 9" | 17' 9" | 15' 10" | 15' 4" | 15' 4" | 14' 4" |
| 600SR125-43 | 18 | 24.6 | 12 | 35' 9" | 28' 8" | 25' 1" | 29' 3" | 25' 1" | 21' 10" | 25' 3" | 22' 9" | 19' 10" |
| | | | 16 | 31' 0" | 26' 1" | 22' 9" | 25' 3" | 22' 9" | 19' 10" | 21' 10" | 20' 8" | 18' 1" |
| | | | 24 | 25' 3" | 22' 9" | 19' 10" | 20' 8" | 19' 10" | 17' 4" | 17' 10" | 17' 10" | 15' 9" |

- Notes:
1. Non-composite limiting heights are based on studs cut through the center of the punchout.
 2. Use non-composite braced 48" o.c. table when studs are laterally braced a maximum of 48" o.c..
 3. See IAMPO ES ER-781 for additional information. Review fire rated assemblies for additional requirements.

Table with columns: Section Identification, Fy (ksi), Spacing (in.) o.c., and load capacities (5 psf, 10 psf) for various L/120, L/240, and L/360 ratios.

Table with columns: Section Identification, Fy (ksi), Spacing (in.) o.c., and load capacities (5 psf, 10 psf) for various L/120, L/240, and L/360 ratios.

- Notes: 1. 5 psf, and 10 psf loads have not been reduced for strength or deflection checks. Full lateral load is applied. 2. Limiting heights are based on continuous support of each flange over the full length of the stud. 3. Web crippling checks are based on end-one flange loading condition using 1-inch end bearing. 4. Allowable flexural strength is based on lateral and torsional bracing at 48" on center. 5. Limiting heights are based on steel properties only (non-composite).

Table with columns: Member, Fy (ksi), Spacing (in.) o.c., and load categories (15 psf, 20 psf, 25 psf, 30 psf, 35 psf, 40 psf, 50 psf) with sub-columns for L/240, L/360, and L/600.

Notes:

- 1. Listed wind pressure represent the calculated nominal design wind pressure (0.6W based on 2018 and 2021 IBC).
2. For deflection calculations, listed nominal wind pressures have been adjusted in accordance with footnote (f) to IBC 1604.3. No further reductions are allowed
3. Studs must be braced against rotation and lateral displacement at all supports.
4. Studs are assumed to be adequately braced at a maximum spacing of Lp to develop the full allowable moment, Mp.
5. Limiting heights are based on studs cut through the center of the punchout.

Notes:

- Allowable axial loads listed are based on simple one span condition and are given in kips (1 kip = 1,000 lb).
Allowable axial loads are determined based on Section H1 of AISI S100-16 with the assumption that the axial load passes through the centroid of the effective section.
Allowable axial loads are based on 48" o.c. bracing.
Studs are assumed to be adequately braced at a maximum spacing of Lu to develop full allowable moment, Ma.
Listed wind pressures represent the calculated design wind pressure (0.6W based on 2018 and 2021 IBC). For deflection calculations, the listed wind pressures have been reduced by 0.70 as per IBC. The 5 psf pressure has not been reduced for deflection checks. Values are based on studs cut through the center of the punchout.

3-5/8"

5 psf Lateral Load (Interior Walls Only)

Table with 22 columns: Wall Height (ft), Stud Spacing (in.) o.c., 362SR162 (33 ksi, 50 ksi), 362SR200 (33 ksi, 50 ksi), 362SR250 (33 ksi, 50 ksi), 362SR300 (33 ksi, 50 ksi). Rows for wall heights 8, 9, 10, 12, 14, 16.

3-5/8"

15 psf Lateral Load

Table with 22 columns: Wall Height (ft), Stud Spacing (in.) o.c., 362SR162 (33 ksi, 50 ksi), 362SR200 (33 ksi, 50 ksi), 362SR250 (33 ksi, 50 ksi), 362SR300 (33 ksi, 50 ksi). Rows for wall heights 8, 9, 10, 12, 14, 16.

3-5/8"

20 psf Lateral Load

Table with 22 columns: Wall Height (ft), Stud Spacing (in.) o.c., 362SR162 (33 ksi, 50 ksi), 362SR200 (33 ksi, 50 ksi), 362SR250 (33 ksi, 50 ksi), 362SR300 (33 ksi, 50 ksi). Rows for wall heights 8, 9, 10, 12, 14, 16.

1. Deflection meets L/120 2. Deflection meets L/240 3. Deflection meets L/360 4. Deflection meets L/600 *If no note, deflection meets L/720

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3-5/8"

40 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 362SR162 | | | | | 362SR200 | | | | | 362SR250 | | | | | 362SR300 | | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|-------------------|-------------------|-------------------|-------------------|----|----|
| | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | |
| | | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 |
| 8 | 12 | 0.63 ³ | 1.40 | 3.07 | -- | -- | 0.95 ⁴ | 1.95 | 4.00 | -- | -- | 1.15 | 2.29 | 4.57 | -- | -- | 1.28 | 2.42 | 4.71 | -- | -- |
| | 16 | 0.13 ³ | 0.89 ³ | 2.60 ⁴ | -- | -- | 0.41 ³ | 1.39 ⁴ | 3.45 | -- | -- | 0.60 ³ | 1.69 | 3.99 | -- | -- | 0.72 ⁴ | 1.82 | 4.14 | -- | -- |
| | 24 | | 1.73 ³ | | | | 0.38 ³ | 2.45 ³ | | | | 0.60 ³ | 2.91 ⁴ | | | | 0.71 ³ | 3.09 ⁴ | | | |
| 9 | 12 | 0.21 ³ | 0.93 ³ | 2.49 ⁴ | -- | -- | 0.48 ³ | 1.40 ⁴ | 3.27 | -- | -- | 0.66 ³ | 1.70 | 3.81 | -- | -- | 0.78 ³ | 1.83 | 3.98 | -- | -- |
| | 16 | | 0.36 ³ | 1.95 ³ | -- | -- | 0.78 ³ | 2.66 ³ | 1.56 ³ | -- | -- | 1.03 ³ | 3.15 ⁴ | -- | -- | 0.15 ³ | 1.14 ⁴ | 3.32 ⁴ | -- | -- | |
| | 24 | | 1.00 ² | | | | | | | | | 1.95 ³ | | | | | 2.13 ³ | | | | |
| 10 | 12 | | 0.49 ³ | 1.93 ³ | -- | -- | | 0.88 ³ | 2.57 ³ | -- | -- | 0.21 ³ | 1.14 ³ | 3.08 ⁴ | -- | -- | 0.31 ³ | 1.25 ³ | 3.25 ⁴ | -- | -- |
| | 16 | | | 1.36 ³ | -- | -- | | 0.22 ² | 1.92 ³ | -- | -- | | 0.41 ³ | 2.35 ³ | -- | -- | | 0.50 ³ | 2.53 ³ | -- | -- |
| | 24 | | | 0.36 ² | | | | | 0.79 ² | | | | 1.09 ² | | | | | 1.25 ² | | | |
| 12 | 12 | | | 0.96 ² | -- | -- | | | 1.39 ² | -- | -- | | 0.16 ² | 1.74 ³ | -- | -- | | 0.24 ² | 1.94 ³ | -- | -- |
| | 16 | | | 0.38 ¹ | | | | | 0.73 ² | | | | | | | | | | 1.16 ² | | |
| | 24 | | | | | | | | | | | | | | | | | | | | |
| 14 | 12 | | | 0.27 ¹ | -- | -- | | | 0.54 ¹ | -- | -- | | | 0.74 ¹ | -- | -- | | | 0.91 ² | -- | -- |
| | 16 | | | | | | | | | | | | | | | | | 0.14 ¹ | -- | -- | |
| | 24 | | | | | | | | | | | | | | | | | | | | |
| 16 | 12 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | 0.16 ¹ | -- | -- |
| | 16 | | | | | | | | | | | | | | | | | | | | |
| | 24 | | | | | | | | | | | | | | | | | | | | |

3-5/8"

50 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 362SR162 | | | | | 362SR200 | | | | | 362SR250 | | | | | 362SR300 | | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|
| | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | |
| | | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 |
| 8 | 12 | 0.25 ³ | 1.02 ⁴ | 2.71 | -- | -- | 0.54 ³ | 1.53 | 3.58 | -- | -- | 0.73 ⁴ | 1.84 | 4.13 | -- | -- | 0.85 ⁴ | 1.96 | 4.28 | -- | -- |
| | 16 | | 0.42 ³ | 2.15 ³ | -- | -- | 0.87 ³ | 2.94 ⁴ | 1.76 ³ | -- | -- | 1.13 ⁴ | 3.44 | 2.17 ³ | -- | -- | 0.19 ³ | 1.25 ⁴ | 3.60 | -- | -- |
| | 24 | | 1.13 ³ | | | | | 1.76 ³ | | | | 2.17 ³ | | | | | | 2.35 ³ | | | |
| 9 | 12 | | 0.50 ³ | 2.08 ³ | -- | -- | 0.93 ³ | 2.81 ⁴ | 1.83 ³ | -- | -- | 0.20 ³ | 1.19 ³ | 3.31 ⁴ | -- | -- | 0.30 ³ | 1.31 ⁴ | 3.48 | -- | -- |
| | 16 | | | 1.46 ³ | -- | -- | 0.21 ³ | 2.09 ³ | 0.83 ² | -- | -- | 0.40 ³ | 2.53 ³ | -- | -- | | 0.50 ³ | 2.71 ³ | -- | -- | |
| | 24 | | | 0.36 ² | | | | 0.83 ² | | | | 1.15 ² | | | | | | 1.32 ³ | | | |
| 10 | 12 | | | 1.49 ³ | -- | -- | 0.38 ³ | 2.08 ³ | 1.33 ² | -- | -- | | 0.58 ³ | 2.53 ³ | -- | -- | | 0.68 ³ | 2.70 ³ | -- | -- |
| | 16 | | | 0.84 ² | | | | 1.33 ² | | | | | 1.70 ³ | -- | -- | | | 1.87 ³ | -- | -- | |
| | 24 | | | | | | | | | | | 0.25 ² | | | | | | 0.39 ² | | | |
| 12 | 12 | | | 0.52 ¹ | -- | -- | | 0.89 ² | 0.14 ¹ | -- | -- | | 1.17 ² | -- | -- | | | 1.35 ² | -- | -- | |
| | 16 | | | | | | | 0.14 ¹ | | | | 0.33 ¹ | -- | -- | | | | 0.46 ² | -- | -- | |
| | 24 | | | | | | | | | | | | | | | | | | | | |
| 14 | 12 | | | | -- | -- | | | | -- | -- | | 0.21 ¹ | -- | -- | | | 0.32 ¹ | -- | -- | |
| | 16 | | | | | | | | | | | | | | | | | | | | |
| | 24 | | | | | | | | | | | | | | | | | | | | |
| 16 | 12 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| | 16 | | | | | | | | | | | | | | | | | | | | |
| | 24 | | | | | | | | | | | | | | | | | | | | |

¹ Deflection meets L/120 ² Deflection meets L/240 ³ Deflection meets L/360 ⁴ Deflection meets L/600 *If no note, deflection meets L/720



For more information, please contact MarinoWARE® Technical Services at 866-545-1545. This technical information reflects the most current information available and supersedes any and all previous publications effective May 22, 2023 | MW StudRite Technical Catalog | © WARE Industries, Inc. 2023

4"

40 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 400SR162 | | | | | 400SR200 | | | | | 400SR250 | | | | | 400SR300 | | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|
| | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | |
| | | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 |
| 8 | 12 | 0.90 | 1.78 | 3.74 | -- | -- | 1.27 | 2.40 | 4.86 | -- | -- | 1.47 | 2.78 | 5.35 | -- | -- | 1.61 | 2.92 | 5.57 | -- | -- |
| | 16 | 0.38 ³ | 1.26 | 3.24 | -- | -- | 0.72 ⁴ | 1.83 | 4.29 | -- | -- | 0.91 | 2.19 | 4.78 | -- | -- | 1.04 | 2.32 | 5.00 | -- | -- |
| | 24 | | 0.30 ³ | 2.32 ³ | -- | -- | | 0.78 ³ | 3.25 ⁴ | -- | -- | | 1.08 ⁴ | 3.70 | -- | -- | | 1.21 ⁴ | 3.93 | -- | -- |
| 9 | 12 | 0.45 ³ | 1.29 ⁴ | 3.14 | -- | -- | 0.78 ⁴ | 1.83 | 4.11 | -- | -- | 0.97 ⁴ | 2.19 | 4.65 | -- | -- | 1.10 | 2.33 | 4.84 | -- | -- |
| | 16 | | 0.70 ³ | 2.56 ⁴ | -- | -- | 0.16 ³ | 1.18 ³ | 3.47 | -- | -- | 0.32 ³ | 1.50 ⁴ | 3.97 | -- | -- | 0.45 ³ | 1.64 | 4.17 | -- | -- |
| | 24 | | | 1.53 ³ | -- | -- | | | 2.30 ³ | -- | -- | | 0.25 ³ | 2.73 ³ | -- | -- | | 0.37 ³ | 2.93 ³ | -- | -- |
| 10 | 12 | | 0.81 ³ | 2.53 ⁴ | -- | -- | 0.32 ³ | 1.27 ³ | 3.37 ⁴ | -- | -- | 0.48 ³ | 1.60 ⁴ | 3.91 | -- | -- | 0.60 ³ | 1.74 | 4.09 | -- | -- |
| | 16 | | 0.17 ³ | 1.90 ³ | -- | -- | | 0.57 ³ | 2.66 ³ | -- | -- | | 0.84 ³ | 3.14 ⁴ | -- | -- | | 0.96 ³ | 3.34 ⁴ | -- | -- |
| | 24 | | | 0.80 ² | -- | -- | | | 1.41 ² | -- | -- | | | 1.79 ³ | -- | -- | | | 1.98 ³ | -- | -- |
| 12 | 12 | | | 1.43 ² | -- | -- | | 0.30 ² | 2.02 ³ | -- | -- | | 0.53 ³ | 2.46 ³ | -- | -- | | 0.64 ³ | 2.65 ³ | -- | -- |
| | 16 | | | 0.76 ² | -- | -- | | | 1.28 ² | -- | -- | | | 1.63 ² | -- | -- | | | 1.81 ³ | -- | -- |
| | 24 | | | | -- | -- | | | 0.20 ¹ | -- | -- | | | 0.47 ¹ | -- | -- | | | 0.34 ² | -- | -- |
| 14 | 12 | | | 0.58 ¹ | -- | -- | | | 0.98 ² | -- | -- | | | 1.28 ² | -- | -- | | | 1.46 ² | -- | -- |
| | 16 | | | | -- | -- | | | 0.26 ¹ | -- | -- | | | 0.43 ¹ | -- | -- | | | 0.60 ¹ | -- | -- |
| | 24 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| 16 | 12 | | | | -- | -- | | | 0.26 ¹ | -- | -- | | | 0.43 ¹ | -- | -- | | | 0.56 ¹ | -- | -- |
| | 16 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| | 24 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |

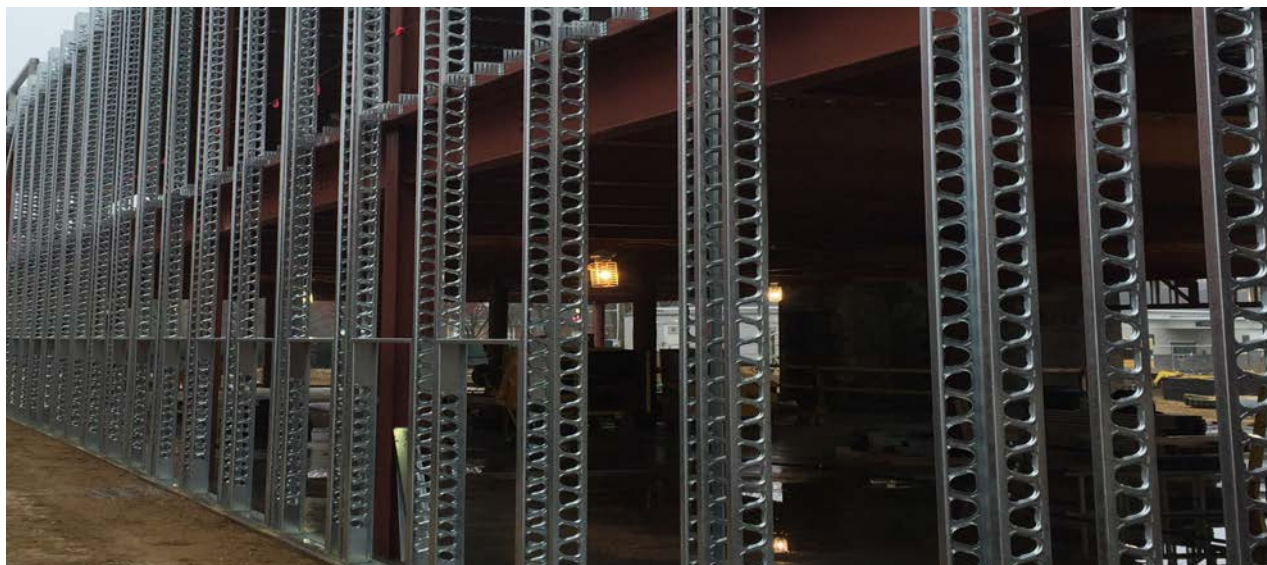
4"

50 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 400SR162 | | | | | 400SR200 | | | | | 400SR250 | | | | | 400SR300 | | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|-------------------|-------------------|-------------------|----|----|
| | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | |
| | | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 |
| 8 | 12 | 0.50 ⁴ | 1.39 | 3.36 | -- | -- | 0.85 ⁴ | 1.97 | 4.43 | -- | -- | 1.05 | 2.33 | 4.92 | -- | -- | 1.18 | 2.47 | 5.14 | -- | -- |
| | 16 | | 0.77 ³ | 2.77 ⁴ | -- | -- | 0.21 ³ | 1.29 ⁴ | 3.76 | -- | -- | 0.38 ³ | 1.62 | 4.23 | -- | -- | 0.50 ⁴ | 1.76 | 4.46 | -- | -- |
| | 24 | | | 1.69 ³ | -- | -- | | | 2.53 ³ | -- | -- | | 0.32 ³ | 2.95 ⁴ | -- | -- | | 0.44 ³ | 3.18 ⁴ | -- | -- |
| 9 | 12 | | 0.84 ³ | 2.70 ⁴ | -- | -- | 0.31 ³ | 1.34 ⁴ | 3.62 | -- | -- | 0.48 ³ | 1.67 | 4.13 | -- | -- | 0.60 ³ | 1.80 | 4.34 | -- | -- |
| | 16 | | 0.15 ³ | 2.03 ³ | -- | -- | | 0.57 ³ | 2.86 ³ | -- | -- | | 0.86 ³ | 3.33 ⁴ | -- | -- | | 0.98 ⁴ | 3.54 ⁴ | -- | -- |
| | 24 | | | 0.83 ² | -- | -- | | | 1.50 ³ | -- | -- | | | 1.88 ³ | -- | -- | | | 2.08 ³ | -- | -- |
| 10 | 12 | | 0.32 ³ | 2.05 ³ | -- | -- | | 0.74 ³ | 2.83 ³ | -- | -- | | 1.02 ³ | 3.33 ⁴ | -- | -- | | 1.15 ³ | 3.52 ⁴ | -- | -- |
| | 16 | | | 1.33 ³ | -- | -- | | | 2.01 ³ | -- | -- | | 0.14 ³ | 2.44 ³ | -- | -- | | 0.25 ³ | 2.63 ³ | -- | -- |
| | 24 | | | | -- | -- | | | 0.58 ² | -- | -- | | | 0.88 ² | -- | -- | | | 1.06 ² | -- | -- |
| 12 | 12 | | | 0.92 ² | -- | -- | | | 1.45 ² | -- | -- | | | 1.83 ³ | -- | -- | | | 2.01 ³ | -- | -- |
| | 16 | | | 0.17 ¹ | -- | -- | | | 0.61 ² | -- | -- | | | 0.88 ² | -- | -- | | | 1.04 ² | -- | -- |
| | 24 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| 14 | 12 | | | | -- | -- | | | 0.44 ¹ | -- | -- | | | 0.66 ¹ | -- | -- | | | 0.81 ² | -- | -- |
| | 16 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| | 24 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| 16 | 12 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| | 16 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |
| | 24 | | | | -- | -- | | | | -- | -- | | | | -- | -- | | | | -- | -- |

¹ Deflection meets L/120 ² Deflection meets L/240 ³ Deflection meets L/360 ⁴ Deflection meets L/600 *If no note, deflection meets L/720

STRUCTURAL FRAMING



6" 25 psf Lateral Load

Table with 20 columns: Wall Height (ft), Stud Spacing (in.) o.c., 600SR162 (33 ksi, 50 ksi), 600SR200 (33 ksi, 50 ksi), 600SR250 (33 ksi, 50 ksi), 600SR300 (33 ksi, 50 ksi). Rows include wall heights from 8 to 16 ft and stud spacings of 12, 16, and 24 inches.

6" 30 psf Lateral Load

Table with 20 columns: Wall Height (ft), Stud Spacing (in.) o.c., 600SR162 (33 ksi, 50 ksi), 600SR200 (33 ksi, 50 ksi), 600SR250 (33 ksi, 50 ksi), 600SR300 (33 ksi, 50 ksi). Rows include wall heights from 8 to 16 ft and stud spacings of 12, 16, and 24 inches.

6" 35 psf Lateral Load

Table with 20 columns: Wall Height (ft), Stud Spacing (in.) o.c., 600SR162 (33 ksi, 50 ksi), 600SR200 (33 ksi, 50 ksi), 600SR250 (33 ksi, 50 ksi), 600SR300 (33 ksi, 50 ksi). Rows include wall heights from 8 to 16 ft and stud spacings of 12, 16, and 24 inches.

1. Deflection meets L/120 2. Deflection meets L/240 3. Deflection meets L/360 4. Deflection meets L/600 *If no note, deflection meets L/720

6"

40 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 600SR162 | | | | | 600SR200 | | | | | 600SR250 | | | | | 600SR300 | | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|------|
| | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | |
| | | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 |
| 8 | 12 | 1.43 | 2.57 | 5.29 | 7.65 | 10.7 | 1.93 | 3.34 | 6.71 | 9.87 | 14.8 | 2.11 | 3.64 | 7.23 | 10.6 | 17.5 | 2.22 | 3.81 | 7.52 | 11.0 | 18.7 |
| | 16 | 1.08 | 2.20 | 4.91 | 7.25 | 10.3 | 1.55 | 2.93 | 6.29 | 9.46 | 14.4 | 1.73 | 3.23 | 6.81 | 10.1 | 17.1 | 1.83 | 3.40 | 7.10 | 10.6 | 18.3 |
| | 24 | 0.41 | 1.49 | 4.17 | 6.48 | 9.60 | 0.81 | 2.15 | 5.47 | 8.64 | 13.7 | 0.97 | 2.43 | 5.98 | 9.25 | 16.2 | 1.08 | 2.61 | 6.28 | 9.72 | 17.3 |
| 9 | 12 | 1.14 | 2.25 | 4.94 | 7.28 | 10.4 | 1.61 | 2.99 | 6.32 | 9.47 | 14.3 | 1.79 | 3.28 | 6.84 | 10.2 | 16.8 | 1.89 | 3.46 | 7.14 | 10.6 | 18.0 |
| | 16 | 0.71 | 1.79 | 4.46 | 6.77 | 9.88 | 1.14 | 2.48 | 5.79 | 8.94 | 13.8 | 1.31 | 2.77 | 6.31 | 9.58 | 16.3 | 1.41 | 2.95 | 6.60 | 10.1 | 17.4 |
| | 24 | | 0.92 | 3.54 | 5.80 | 8.94 | 0.24 | 1.51 | 4.77 | 7.91 | 12.8 | 0.39 | 1.79 | 5.27 | 8.47 | 15.2 | 0.49 | 1.96 | 5.57 | 8.95 | 16.2 |
| 10 | 12 | 0.82 | 1.90 | 4.55 | 6.85 | 9.94 | 1.26 | 2.60 | 5.87 | 9.00 | 13.6 | 1.43 | 2.89 | 6.40 | 9.66 | 16.1 | 1.54 | 3.07 | 6.70 | 10.1 | 17.2 |
| | 16 | 0.32 | 1.35 | 3.97 | 6.23 | 9.34 | 0.70 | 1.99 | 5.22 | 8.34 | 13.0 | 0.86 | 2.27 | 5.74 | 8.94 | 15.4 | 0.96 | 2.45 | 6.04 | 9.43 | 16.4 |
| | 24 | | 0.32 ⁴ | 2.86 | 5.04 | 8.19 | | 0.84 | 3.99 | 7.07 | 11.9 | | 1.09 | 4.48 | 7.58 | 14.1 | | 1.27 | 4.78 | 8.07 | 15.0 |
| 12 | 12 | 0.16 ³ | 1.13 | 3.63 | 5.69 | 8.90 | 0.50 ⁴ | 1.73 | 4.83 | 7.60 | 12.1 | 0.65 ⁴ | 2.00 | 5.34 | 8.41 | 14.2 | 0.75 | 2.19 | 5.66 | 8.78 | 15.2 |
| | 16 | | 0.42 ³ | 2.85 ⁴ | 4.85 | 8.04 | | 0.93 ⁴ | 3.94 | 6.70 | 11.2 | | 1.18 | 4.43 | 7.41 | 13.2 | | 1.35 | 4.75 | 7.80 | 14.1 |
| | 24 | | 1.42 ³ | 3.32 ³ | 6.45 | | | 2.33 ³ | 5.06 ⁴ | 9.62 | | | 2.77 ³ | 5.57 | 11.5 | | | 1.31 ³ | 3.06 ⁴ | 5.98 | 12.2 |
| 14 | 12 | | 0.34 ³ | 2.63 ³ | 4.40 ⁴ | 7.52 | | 0.82 ³ | 3.65 ⁴ | 6.03 | 10.22 | | 1.06 ⁴ | 4.14 | 6.68 | 12.0 | | 1.23 ⁴ | 4.46 | 7.12 | 12.9 |
| | 16 | | | 1.68 ³ | 3.40 ³ | 6.44 ⁴ | | | 2.58 ³ | 4.96 ⁴ | 9.16 | | | 3.02 ³ | 5.49 ⁴ | 10.8 | | 0.21 ³ | 3.33 ³ | 5.93 | 11.6 |
| | 24 | | | 1.65 ² | 4.51 ³ | | | | 0.72 ² | 3.08 ³ | 7.24 ³ | | | 1.06 ³ | 3.38 ³ | 8.68 ⁴ | | | 1.31 ³ | 3.78 ³ | 9.22 |
| 16 | 12 | | | 1.61 ³ | 3.12 ³ | 5.87 ⁴ | | | 2.40 ³ | 4.48 ³ | 8.25 | | 0.14 ³ | 2.80 ³ | 4.99 ⁴ | 9.73 | | 0.28 ³ | 3.08 ³ | 5.45 ⁴ | 10.5 |
| | 16 | | | 0.59 ² | 2.05 ² | 4.67 ³ | | | 1.26 ² | 3.34 ³ | 7.07 ³ | | | 1.60 ³ | 3.70 ³ | 8.40 ⁴ | | | 1.85 ³ | 4.12 ³ | 9.01 |
| | 24 | | | 0.21 ¹ | 2.60 ² | | | | 1.37 ² | 5.00 ³ | | | | 1.47 ² | 6.09 ³ | | | | 1.81 ² | 6.45 ³ | |

6"

50 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 600SR162 | | | | | 600SR200 | | | | | 600SR250 | | | | | 600SR300 | | | | |
|------------------|-------------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | | 33 ksi | | 50 ksi | | |
| | | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 | 33 | 43 | 54 | 68 | 97 |
| 8 | 12 | 1.17 | 2.29 | 5.00 | 7.35 | 10.4 | 1.64 | 3.03 | 6.39 | 9.56 | 14.5 | 1.82 | 3.33 | 6.91 | 10.2 | 17.2 | 1.93 | 3.51 | 7.20 | 10.7 | 18.4 |
| | 16 | 0.74 | 1.84 | 4.54 | 6.87 | 9.97 | 1.18 | 2.54 | 5.88 | 9.05 | 14.0 | 1.35 | 2.83 | 6.39 | 9.69 | 16.6 | 1.45 | 3.00 | 6.68 | 10.2 | 17.8 |
| | 24 | | 0.96 | 3.63 | 5.92 | 9.07 | 0.28 | 1.57 | 4.88 | 8.05 | 13.1 | 0.43 | 1.85 | 5.38 | 8.61 | 15.6 | 0.53 | 2.03 | 5.67 | 9.08 | 16.7 |
| 9 | 12 | 0.82 | 1.91 | 4.58 | 6.90 | 9.99 | 1.25 | 2.61 | 5.92 | 9.07 | 13.9 | 1.43 | 2.90 | 6.44 | 9.72 | 16.4 | 1.53 | 3.08 | 6.74 | 10.2 | 17.5 |
| | 16 | 0.30 | 1.35 | 4.00 | 6.28 | 9.41 | 0.68 | 1.99 | 5.27 | 8.42 | 13.3 | 0.84 | 2.27 | 5.78 | 9.02 | 15.8 | 0.94 | 2.45 | 6.08 | 9.49 | 16.8 |
| | 24 | | 0.29 ⁴ | 2.88 | 5.10 | 8.26 | | 0.82 | 4.03 | 7.16 | 12.1 | | 1.07 | 4.52 | 7.66 | 14.4 | | 1.25 | 4.81 | 8.14 | 15.4 |
| 10 | 12 | 0.44 | 1.49 | 4.11 | 6.38 | 9.49 | 0.83 | 2.14 | 5.38 | 8.50 | 13.2 | 1.00 | 2.42 | 5.90 | 9.12 | 15.6 | 1.10 | 2.60 | 6.20 | 9.60 | 16.6 |
| | 16 | | 0.83 | 3.40 | 5.63 | 8.76 | 0.16 ⁴ | 1.40 | 4.60 | 7.70 | 12.4 | 0.30 | 1.67 | 5.10 | 8.25 | 14.7 | 0.40 | 1.85 | 5.40 | 8.74 | 15.7 |
| | 24 | | | 2.08 ⁴ | 4.20 | 7.36 | | | 3.12 | 6.17 | 11.0 | | 0.26 ⁴ | 3.58 | 6.61 | 13.1 | | 0.42 | 3.88 | 7.10 | 13.9 |
| 12 | 12 | | 0.59 ³ | 3.04 ⁴ | 5.06 | 8.25 | | 1.12 ⁴ | 4.16 | 6.92 | 11.4 | | 1.38 | 4.66 | 7.65 | 13.5 | 0.18 ⁴ | 1.56 | 4.97 | 8.04 | 14.4 |
| | 16 | | | 2.11 ³ | 4.07 ⁴ | 7.23 | | 0.18 ³ | 3.11 ⁴ | 5.86 | 10.4 | | 0.40 ³ | 3.58 ⁴ | 6.47 | 12.3 | | 0.56 ⁴ | 3.89 | 6.87 | 13.1 |
| | 24 | | | 0.45 ² | 2.27 ³ | 5.34 ⁴ | | | 1.24 ³ | 3.93 ³ | 8.50 ⁴ | | | 1.62 ³ | 4.30 ³ | 10.2 | | 1.90 ³ | 4.71 ⁴ | 10.8 | |
| 14 | 12 | | | 1.91 ³ | 3.64 ³ | 6.70 | | 0.10 ³ | 2.84 ³ | 5.22 ⁴ | 9.41 | | 0.31 ³ | 3.29 ³ | 5.78 | 11.1 | | 0.46 ³ | 3.60 ⁴ | 6.22 | 11.9 |
| | 16 | | | 0.83 ² | 2.49 ³ | 5.44 ³ | | | 1.61 ³ | 3.99 ³ | 8.17 ⁴ | | | 2.00 ³ | 4.39 ³ | 9.72 | | | 2.28 ³ | 4.82 ⁴ | 10.4 |
| | 24 | | | 0.49 ² | 3.21 ³ | | | | 1.83 ² | 5.94 ³ | | | | 1.96 ³ | 7.23 ³ | | | | 2.34 ³ | 7.62 ³ | |
| 16 | 12 | | | 0.83 ² | 2.31 ³ | 4.96 ³ | | | 1.53 ² | 3.61 ³ | 7.35 ³ | | | 1.88 ³ | 4.01 ³ | 8.72 ⁴ | | | 2.14 ³ | 4.44 ³ | 9.36 |
| | 16 | | | | 1.09 ² | 3.59 ³ | | | 0.24 ² | 2.31 ² | 5.99 ³ | | | 0.52 ² | 2.54 ³ | 7.20 ³ | | | 0.73 ² | 2.92 ³ | 7.68 ³ |
| | 24 | | | | | 1.24 ² | | | | | 3.63 ² | | | | 4.56 ² | | | | 0.29 ² | 4.76 ³ | |

¹ Deflection meets L/120 ² Deflection meets L/240 ³ Deflection meets L/360 ⁴ Deflection meets L/600 *If no note, deflection meets L/720



STRUCTURAL FRAMING

8"

5 psf Lateral Load (Interior Walls Only)

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|----------|------|--------|------|----------|------|--------|------|----------|------|--------|------|----------|------|--------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 3.04 | 5.30 | 7.54 | 12.8 | 3.72 | 6.49 | 9.18 | 15.4 | 3.81 | 6.66 | 9.43 | 15.9 | 4.10 | 7.16 | 10.2 | 17.2 |
| | 16 | 3.02 | 5.27 | 7.51 | 12.8 | 3.69 | 6.46 | 9.15 | 15.4 | 3.78 | 6.63 | 9.40 | 15.8 | 4.07 | 7.13 | 10.1 | 17.2 |
| | 24 | 2.96 | 5.22 | 7.45 | 12.7 | 3.63 | 6.40 | 9.08 | 15.3 | 3.72 | 6.57 | 9.33 | 15.8 | 4.01 | 7.06 | 10.1 | 17.1 |
| 9 | 12 | 3.02 | 5.28 | 7.51 | 12.8 | 3.70 | 6.47 | 9.15 | 15.4 | 3.79 | 6.63 | 9.40 | 15.9 | 4.08 | 7.13 | 10.1 | 17.2 |
| | 16 | 2.98 | 5.24 | 7.48 | 12.7 | 3.66 | 6.43 | 9.11 | 15.3 | 3.75 | 6.59 | 9.36 | 15.8 | 4.03 | 7.09 | 10.1 | 17.1 |
| | 24 | 2.91 | 5.17 | 7.41 | 12.6 | 3.58 | 6.34 | 9.02 | 15.2 | 3.67 | 6.51 | 9.28 | 15.7 | 3.95 | 7.01 | 10.0 | 17.1 |
| 10 | 12 | 2.99 | 5.25 | 7.49 | 12.7 | 3.67 | 6.43 | 9.12 | 15.3 | 3.76 | 6.60 | 9.37 | 15.8 | 4.04 | 7.10 | 10.1 | 17.2 |
| | 16 | 2.95 | 5.21 | 7.44 | 12.7 | 3.62 | 6.38 | 9.06 | 15.3 | 3.71 | 6.55 | 9.32 | 15.8 | 3.99 | 7.05 | 10.1 | 17.1 |
| | 24 | 2.86 | 5.12 | 7.35 | 12.6 | 3.52 | 6.28 | 8.96 | 15.1 | 3.61 | 6.45 | 9.21 | 15.7 | 3.89 | 6.95 | 9.94 | 17.0 |
| 12 | 12 | 2.93 | 5.18 | 7.42 | 12.7 | 3.59 | 6.36 | 9.04 | 15.2 | 3.69 | 6.53 | 9.29 | 15.7 | 3.97 | 7.02 | 10.0 | 17.1 |
| | 16 | 2.86 | 5.12 | 7.35 | 12.6 | 3.52 | 6.28 | 8.96 | 15.1 | 3.62 | 6.45 | 9.21 | 15.6 | 3.90 | 6.95 | 9.94 | 17.0 |
| | 24 | 2.73 | 4.99 | 7.22 | 12.4 | 3.37 | 6.13 | 8.80 | 15.0 | 3.47 | 6.31 | 9.06 | 15.5 | 3.75 | 6.80 | 9.78 | 16.8 |
| 14 | 12 | 2.85 | 5.10 | 7.33 | 12.6 | 3.50 | 6.26 | 8.93 | 15.1 | 3.60 | 6.43 | 9.19 | 15.6 | 3.88 | 6.93 | 9.92 | 16.9 |
| | 16 | 2.76 | 5.01 | 7.24 | 12.5 | 3.40 | 6.15 | 8.82 | 15.0 | 3.50 | 6.33 | 9.08 | 15.5 | 3.78 | 6.82 | 9.80 | 16.8 |
| | 24 | 2.58 | 4.83 | 7.05 | 12.3 | 3.19 | 5.94 | 8.59 | 14.7 | 3.30 | 6.12 | 8.86 | 15.2 | 3.57 | 6.61 | 9.58 | 16.6 |
| 16 | 12 | 2.76 | 5.00 | 7.22 | 12.4 | 3.39 | 6.14 | 8.79 | 14.9 | 3.49 | 6.31 | 9.06 | 15.5 | 3.77 | 6.81 | 9.78 | 16.8 |
| | 16 | 2.64 | 4.88 | 7.09 | 12.3 | 3.25 | 5.99 | 8.64 | 14.8 | 3.36 | 6.17 | 8.90 | 15.3 | 3.63 | 6.66 | 9.63 | 16.6 |
| | 24 | 2.40 | 4.63 | 6.83 | 12.0 | 2.98 | 5.71 | 8.33 | 14.4 | 3.10 | 5.89 | 8.60 | 14.9 | 3.36 | 6.37 | 9.32 | 16.3 |

8"

15 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|----------|------|--------|------|----------|------|--------|------|----------|------|--------|------|----------|------|--------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.88 | 5.13 | 7.37 | 12.6 | 3.53 | 6.30 | 8.98 | 15.2 | 3.63 | 6.47 | 9.24 | 15.7 | 3.91 | 6.97 | 10.0 | 17.0 |
| | 16 | 2.79 | 5.05 | 7.29 | 12.5 | 3.44 | 6.21 | 8.88 | 15.1 | 3.54 | 6.38 | 9.14 | 15.6 | 3.82 | 6.87 | 9.87 | 16.9 |
| | 24 | 2.62 | 4.89 | 7.12 | 12.4 | 3.25 | 6.02 | 8.69 | 14.9 | 3.36 | 6.20 | 8.95 | 15.4 | 3.63 | 6.68 | 9.67 | 16.7 |
| 9 | 12 | 2.81 | 5.07 | 7.30 | 12.5 | 3.46 | 6.22 | 8.90 | 15.1 | 3.55 | 6.40 | 9.16 | 15.6 | 3.83 | 6.89 | 9.88 | 16.9 |
| | 16 | 2.70 | 4.96 | 7.19 | 12.4 | 3.33 | 6.10 | 8.77 | 15.0 | 3.44 | 6.28 | 9.03 | 15.5 | 3.71 | 6.77 | 9.76 | 16.8 |
| | 24 | 2.49 | 4.75 | 6.98 | 12.2 | 3.09 | 5.86 | 8.52 | 14.7 | 3.20 | 6.05 | 8.79 | 15.2 | 3.47 | 6.52 | 9.50 | 16.5 |
| 10 | 12 | 2.73 | 4.99 | 7.22 | 12.4 | 3.36 | 6.13 | 8.80 | 15.0 | 3.47 | 6.31 | 9.06 | 15.5 | 3.74 | 6.80 | 9.78 | 16.8 |
| | 16 | 2.59 | 4.86 | 7.08 | 12.3 | 3.21 | 5.98 | 8.64 | 14.8 | 3.32 | 6.16 | 8.91 | 15.3 | 3.59 | 6.64 | 9.63 | 16.6 |
| | 24 | 2.33 | 4.60 | 6.81 | 12.0 | 2.92 | 5.68 | 8.33 | 14.5 | 3.03 | 5.87 | 8.61 | 15.0 | 3.29 | 6.34 | 9.31 | 16.3 |
| 12 | 12 | 2.54 | 4.80 | 7.02 | 12.2 | 3.15 | 5.91 | 8.56 | 14.7 | 3.26 | 6.09 | 8.83 | 15.2 | 3.53 | 6.57 | 9.55 | 16.5 |
| | 16 | 2.35 | 4.60 | 6.82 | 12.0 | 2.93 | 5.69 | 8.33 | 14.5 | 3.05 | 5.88 | 8.60 | 15.0 | 3.31 | 6.35 | 9.31 | 16.3 |
| | 24 | 1.97 | 4.22 | 6.42 | 11.6 | 2.50 | 5.25 | 7.86 | 13.9 | 2.63 | 5.45 | 8.15 | 14.5 | 2.88 | 5.91 | 8.85 | 15.8 |
| 14 | 12 | 2.32 | 4.56 | 6.76 | 11.9 | 2.89 | 5.63 | 8.26 | 14.4 | 3.01 | 5.82 | 8.54 | 14.9 | 3.27 | 6.29 | 9.24 | 16.2 |
| | 16 | 2.05 | 4.29 | 6.48 | 11.6 | 2.59 | 5.32 | 7.93 | 14.0 | 2.72 | 5.52 | 8.22 | 14.5 | 2.97 | 5.98 | 8.91 | 15.8 |
| | 24 | 1.55 | 3.78 | 5.94 | 11.1 | 2.02 | 4.72 | 7.29 | 13.3 | 2.16 | 4.94 | 7.59 | 13.8 | 2.39 | 5.38 | 8.27 | 15.1 |
| 16 | 12 | 2.05 | 4.27 | 6.45 | 11.6 | 2.59 | 5.29 | 7.87 | 13.9 | 2.71 | 5.49 | 8.16 | 14.4 | 2.96 | 5.95 | 8.86 | 15.7 |
| | 16 | 1.72 | 3.92 | 6.08 | 11.2 | 2.20 | 4.88 | 7.43 | 13.4 | 2.34 | 5.09 | 7.74 | 14.0 | 2.58 | 5.54 | 8.42 | 15.2 |
| | 24 | 1.07 | 3.25 | 5.36 | 10.4 | 1.47 | 4.11 | 6.59 | 12.4 | 1.63 | 4.33 | 6.91 | 13.0 | 1.83 | 4.75 | 7.57 | 14.3 |

8"

20 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|-------------------|------|--------|------|-------------------|------|--------|------|----------|------|--------|------|----------|------|--------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.79 | 5.05 | 7.29 | 12.5 | 3.44 | 6.21 | 8.88 | 15.1 | 3.54 | 6.38 | 9.14 | 15.6 | 3.82 | 6.87 | 9.87 | 16.9 |
| | 16 | 2.68 | 4.94 | 7.17 | 12.4 | 3.31 | 6.09 | 8.75 | 14.9 | 3.42 | 6.26 | 9.02 | 15.4 | 3.69 | 6.75 | 9.74 | 16.8 |
| | 24 | 2.46 | 4.73 | 6.95 | 12.2 | 3.06 | 5.84 | 8.49 | 14.7 | 3.17 | 6.02 | 8.76 | 15.2 | 3.44 | 6.50 | 9.48 | 16.5 |
| 9 | 12 | 2.70 | 4.96 | 7.19 | 12.4 | 3.33 | 6.10 | 8.77 | 15.0 | 3.44 | 6.28 | 9.03 | 15.5 | 3.71 | 6.77 | 9.76 | 16.8 |
| | 16 | 2.56 | 4.82 | 7.05 | 12.3 | 3.17 | 5.94 | 8.61 | 14.8 | 3.28 | 6.12 | 8.87 | 15.3 | 3.55 | 6.61 | 9.59 | 16.6 |
| | 24 | 2.27 | 4.54 | 6.76 | 12.0 | 2.85 | 5.63 | 8.27 | 14.4 | 2.97 | 5.81 | 8.55 | 14.9 | 3.23 | 6.28 | 9.25 | 16.3 |
| 10 | 12 | 2.59 | 4.86 | 7.08 | 12.3 | 3.21 | 5.98 | 8.64 | 14.8 | 3.32 | 6.16 | 8.91 | 15.3 | 3.59 | 6.64 | 9.63 | 16.6 |
| | 16 | 2.42 | 4.68 | 6.90 | 12.1 | 3.02 | 5.78 | 8.43 | 14.6 | 3.13 | 5.97 | 8.71 | 15.1 | 3.39 | 6.44 | 9.42 | 16.4 |
| | 24 | 2.07 | 4.34 | 6.55 | 11.7 | 2.62 | 5.39 | 8.02 | 14.1 | 2.75 | 5.58 | 8.30 | 14.7 | 3.00 | 6.04 | 9.00 | 16.0 |
| 12 | 12 | 2.35 | 4.60 | 6.82 | 12.0 | 2.93 | 5.69 | 8.33 | 14.5 | 3.05 | 5.88 | 8.60 | 15.0 | 3.31 | 6.35 | 9.31 | 16.3 |
| | 16 | 2.10 | 4.35 | 6.55 | 11.7 | 2.65 | 5.40 | 8.02 | 14.1 | 2.77 | 5.59 | 8.30 | 14.7 | 3.02 | 6.05 | 9.00 | 16.0 |
| | 24 | 1.60 | 3.85 | 6.03 | 11.2 | 2.08 | 4.82 | 7.41 | 13.4 | 2.22 | 5.03 | 7.71 | 14.0 | 2.45 | 5.47 | 8.39 | 15.3 |
| 14 | 12 | 2.05 | 4.29 | 6.48 | 11.6 | 2.59 | 5.32 | 7.93 | 14.0 | 2.72 | 5.52 | 8.22 | 14.5 | 2.97 | 5.98 | 8.91 | 15.8 |
| | 16 | 1.71 | 3.95 | 6.12 | 11.2 | 2.21 | 4.92 | 7.50 | 13.5 | 2.34 | 5.13 | 7.80 | 14.1 | 2.58 | 5.58 | 8.48 | 15.4 |
| | 24 | 1.05 | 3.27 | 5.41 | 10.5 | 1.46 | 4.14 | 6.66 | 12.6 | 1.62 | 4.37 | 6.98 | 13.2 | 1.82 | 4.79 | 7.64 | 14.4 |
| 16 | 12 | 1.72 | 3.92 | 6.08 | 11.2 | 2.20 | 4.88 | 7.43 | 13.4 | 2.34 | 5.09 | 7.74 | 14.0 | 2.58 | 5.54 | 8.42 | 15.2 |
| | 16 | 1.28 | 3.47 | 5.60 | 10.6 | 1.71 | 4.36 | 6.87 | 12.7 | 1.86 | 4.58 | 7.18 | 13.3 | 2.08 | 5.01 | 7.85 | 14.6 |
| | 24 | 0.46 ³ | 2.61 | 4.68 | 9.60 | 0.78 ⁴ | 3.37 | 5.79 | 11.5 | 0.95 | 3.61 | 6.13 | 12.1 | 1.13 | 4.00 | 6.75 | 13.3 |

¹ Deflection meets L/120 ² Deflection meets L/240 ³ Deflection meets L/360 ⁴ Deflection meets L/600 *If no note, deflection meets L/720

8"

25 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800S162 | | | | 800S200 | | | | 800S250 | | | | 800S300 | | | |
|------------------|-------------------------|-------------------|-------------------|--------|------|-------------------|-------------------|--------|------|-------------------|------|--------|------|-------------------|------|--------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.71 | 4.97 | 7.20 | 12.4 | 3.34 | 6.12 | 8.79 | 15.0 | 3.45 | 6.29 | 9.05 | 15.5 | 3.72 | 6.78 | 9.77 | 16.8 |
| | 16 | 2.57 | 4.83 | 7.06 | 12.3 | 3.19 | 5.96 | 8.62 | 14.8 | 3.29 | 6.14 | 8.89 | 15.3 | 3.56 | 6.62 | 9.61 | 16.6 |
| | 24 | 2.29 | 4.56 | 6.78 | 12.0 | 2.87 | 5.65 | 8.30 | 14.5 | 2.99 | 5.84 | 8.58 | 15.0 | 3.25 | 6.31 | 9.28 | 16.3 |
| 9 | 12 | 2.59 | 4.86 | 7.08 | 12.3 | 3.21 | 5.98 | 8.65 | 14.8 | 3.32 | 6.16 | 8.91 | 15.3 | 3.59 | 6.65 | 9.63 | 16.7 |
| | 16 | 2.42 | 4.68 | 6.90 | 12.1 | 3.01 | 5.79 | 8.44 | 14.6 | 3.13 | 5.97 | 8.71 | 15.1 | 3.39 | 6.44 | 9.42 | 16.4 |
| | 24 | 2.06 | 4.34 | 6.55 | 11.8 | 2.62 | 5.39 | 8.02 | 14.1 | 2.74 | 5.58 | 8.31 | 14.7 | 2.99 | 6.05 | 9.01 | 16.0 |
| 10 | 12 | 2.46 | 4.73 | 6.95 | 12.2 | 3.07 | 5.83 | 8.49 | 14.6 | 3.18 | 6.02 | 8.76 | 15.2 | 3.44 | 6.49 | 9.47 | 16.5 |
| | 16 | 2.24 | 4.51 | 6.72 | 11.9 | 2.82 | 5.58 | 8.23 | 14.4 | 2.94 | 5.77 | 8.50 | 14.9 | 3.19 | 6.24 | 9.21 | 16.2 |
| | 24 | 1.81 | 4.08 | 6.28 | 11.5 | 2.33 | 5.09 | 7.71 | 13.8 | 2.46 | 5.30 | 8.00 | 14.3 | 2.70 | 5.75 | 8.69 | 15.6 |
| 12 | 12 | 2.16 | 4.41 | 6.62 | 11.8 | 2.72 | 5.47 | 8.10 | 14.2 | 2.84 | 5.66 | 8.38 | 14.7 | 3.09 | 6.13 | 9.08 | 16.0 |
| | 16 | 1.84 | 4.10 | 6.29 | 11.5 | 2.36 | 5.11 | 7.71 | 13.8 | 2.50 | 5.31 | 8.01 | 14.3 | 2.74 | 5.76 | 8.69 | 15.6 |
| | 24 | 1.23 | 3.48 | 5.65 | 10.8 | 1.67 | 4.40 | 6.96 | 12.9 | 1.82 | 4.62 | 7.28 | 13.5 | 2.04 | 5.04 | 7.94 | 14.8 |
| 14 | 12 | 1.80 | 4.03 | 6.21 | 11.3 | 2.30 | 5.02 | 7.60 | 13.6 | 2.44 | 5.23 | 7.90 | 14.2 | 2.68 | 5.68 | 8.59 | 15.5 |
| | 16 | 1.38 | 3.61 | 5.76 | 10.9 | 1.83 | 4.53 | 7.08 | 13.0 | 1.98 | 4.74 | 7.39 | 13.6 | 2.20 | 5.18 | 8.06 | 14.9 |
| | 24 | 0.58 ⁴ | 2.78 | 4.89 | 9.90 | 0.92 | 3.58 | 6.05 | 11.9 | 1.09 | 3.82 | 6.39 | 12.5 | 1.27 | 4.21 | 7.02 | 13.7 |
| 16 | 12 | 1.39 | 3.58 | 5.72 | 10.8 | 1.83 | 4.49 | 7.01 | 12.9 | 1.98 | 4.71 | 7.32 | 13.5 | 2.20 | 5.14 | 7.99 | 14.8 |
| | 16 | 0.86 ⁴ | 3.04 | 5.13 | 10.1 | 1.24 | 3.86 | 6.32 | 12.1 | 1.40 | 4.09 | 6.65 | 12.7 | 1.59 | 4.49 | 7.29 | 14.0 |
| | 24 | | 2.00 ³ | 4.02 | 8.86 | 0.12 ³ | 2.67 ⁴ | 5.02 | 10.6 | 0.31 ⁴ | 2.92 | 5.38 | 11.2 | 0.45 ⁴ | 3.27 | 5.96 | 12.4 |

8"

30 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|------|----------|-------------------|--------|------|----------|-------------------|--------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.62 | 4.89 | 7.12 | 12.4 | 3.25 | 6.02 | 8.69 | 14.9 | 3.36 | 6.20 | 8.95 | 15.4 | 3.63 | 6.68 | 9.67 | 16.7 |
| | 16 | 2.46 | 4.73 | 6.95 | 12.2 | 3.06 | 5.84 | 8.49 | 14.7 | 3.17 | 6.02 | 8.76 | 15.2 | 3.44 | 6.50 | 9.48 | 16.5 |
| | 24 | 2.12 | 4.40 | 6.62 | 11.8 | 2.69 | 5.47 | 8.11 | 14.2 | 2.81 | 5.66 | 8.39 | 14.8 | 3.06 | 6.12 | 9.09 | 16.1 |
| 9 | 12 | 2.49 | 4.75 | 6.98 | 12.2 | 3.09 | 5.86 | 8.52 | 14.7 | 3.20 | 6.05 | 8.79 | 15.2 | 3.47 | 6.52 | 9.50 | 16.5 |
| | 16 | 2.27 | 4.54 | 6.76 | 12.0 | 2.85 | 5.63 | 8.27 | 14.4 | 2.97 | 5.81 | 8.55 | 14.9 | 3.23 | 6.28 | 9.25 | 16.3 |
| | 24 | 1.86 | 4.13 | 6.34 | 11.5 | 2.38 | 5.15 | 7.78 | 13.9 | 2.51 | 5.36 | 8.07 | 14.4 | 2.75 | 5.81 | 8.76 | 15.7 |
| 10 | 12 | 2.33 | 4.60 | 6.81 | 12.0 | 2.92 | 5.68 | 8.33 | 14.5 | 3.03 | 5.87 | 8.61 | 15.0 | 3.29 | 6.34 | 9.31 | 16.3 |
| | 16 | 2.07 | 4.34 | 6.55 | 11.7 | 2.62 | 5.39 | 8.02 | 14.1 | 2.75 | 5.58 | 8.30 | 14.7 | 3.00 | 6.04 | 9.00 | 16.0 |
| | 24 | 1.55 | 3.83 | 6.02 | 11.2 | 2.04 | 4.80 | 7.40 | 13.5 | 2.18 | 5.01 | 7.71 | 14.0 | 2.41 | 5.45 | 8.38 | 15.3 |
| 12 | 12 | 1.97 | 4.22 | 6.42 | 11.6 | 2.50 | 5.25 | 7.86 | 13.9 | 2.63 | 5.45 | 8.15 | 14.5 | 2.88 | 5.91 | 8.85 | 15.8 |
| | 16 | 1.60 | 3.85 | 6.03 | 11.2 | 2.08 | 4.82 | 7.41 | 13.4 | 2.22 | 5.03 | 7.71 | 14.0 | 2.45 | 5.47 | 8.39 | 15.3 |
| | 24 | 0.87 | 3.12 | 5.27 | 10.4 | 1.26 | 3.98 | 6.52 | 12.4 | 1.43 | 4.21 | 6.85 | 13.0 | 1.63 | 4.62 | 7.49 | 14.3 |
| 14 | 12 | 1.55 | 3.78 | 5.94 | 11.1 | 2.02 | 4.72 | 7.29 | 13.3 | 2.16 | 4.94 | 7.59 | 13.8 | 2.39 | 5.38 | 8.27 | 15.1 |
| | 16 | 1.05 | 3.27 | 5.41 | 10.5 | 1.46 | 4.14 | 6.66 | 12.6 | 1.62 | 4.37 | 6.98 | 13.2 | 1.82 | 4.79 | 7.64 | 14.4 |
| | 24 | 0.11 ³ | 2.30 | 4.38 | 9.34 | 0.40 ⁴ | 3.03 | 5.46 | 11.2 | 0.58 | 3.28 | 5.81 | 11.8 | 0.74 | 3.65 | 6.42 | 13.1 |
| 16 | 12 | 1.07 | 3.25 | 5.36 | 10.4 | 1.47 | 4.11 | 6.59 | 12.4 | 1.63 | 4.33 | 6.91 | 13.0 | 1.83 | 4.75 | 7.57 | 14.3 |
| | 16 | 0.46 ³ | 2.61 | 4.68 | 9.60 | 0.78 ⁴ | 3.37 | 5.79 | 11.5 | 0.95 | 3.61 | 6.13 | 12.1 | 1.13 | 4.00 | 6.75 | 13.3 |
| | 24 | | 1.41 ³ | 3.39 ⁴ | 8.15 | | 2.00 ³ | 4.28 ⁴ | 9.72 | | 2.26 ⁴ | 4.65 | 10.4 | | 2.58 ⁴ | 5.21 | 11.6 |

8"

35 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|------|-------------------|-------------------|--------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.54 | 4.81 | 7.03 | 12.3 | 3.16 | 5.93 | 8.59 | 14.8 | 3.26 | 6.11 | 8.86 | 15.3 | 3.53 | 6.59 | 9.57 | 16.6 |
| | 16 | 2.35 | 4.62 | 6.84 | 12.1 | 2.94 | 5.71 | 8.37 | 14.5 | 3.05 | 5.90 | 8.64 | 15.0 | 3.31 | 6.37 | 9.35 | 16.4 |
| | 24 | 1.96 | 4.24 | 6.45 | 11.7 | 2.50 | 5.28 | 7.91 | 14.0 | 2.63 | 5.48 | 8.20 | 14.6 | 2.87 | 5.93 | 8.89 | 15.9 |
| 9 | 12 | 2.38 | 4.65 | 6.87 | 12.1 | 2.97 | 5.75 | 8.40 | 14.5 | 3.09 | 5.93 | 8.67 | 15.1 | 3.35 | 6.40 | 9.38 | 16.4 |
| | 16 | 2.13 | 4.41 | 6.62 | 11.8 | 2.70 | 5.47 | 8.11 | 14.2 | 2.82 | 5.66 | 8.39 | 14.8 | 3.07 | 6.12 | 9.09 | 16.1 |
| | 24 | 1.65 | 3.93 | 6.13 | 11.3 | 2.14 | 4.92 | 7.53 | 13.6 | 2.29 | 5.13 | 7.83 | 14.2 | 2.52 | 5.57 | 8.51 | 15.5 |
| 10 | 12 | 2.20 | 4.47 | 6.68 | 11.9 | 2.77 | 5.54 | 8.17 | 14.3 | 2.89 | 5.73 | 8.45 | 14.8 | 3.14 | 6.19 | 9.16 | 16.1 |
| | 16 | 1.90 | 4.17 | 6.37 | 11.6 | 2.43 | 5.19 | 7.81 | 13.9 | 2.56 | 5.39 | 8.10 | 14.5 | 2.80 | 5.85 | 8.79 | 15.7 |
| | 24 | 1.30 | 3.57 | 5.76 | 10.9 | 1.75 | 4.51 | 7.10 | 13.1 | 1.90 | 4.73 | 7.41 | 13.7 | 2.12 | 5.16 | 8.07 | 15.0 |
| 12 | 12 | 1.78 | 4.04 | 6.23 | 11.4 | 2.29 | 5.04 | 7.64 | 13.7 | 2.43 | 5.24 | 7.93 | 14.2 | 2.66 | 5.69 | 8.62 | 15.5 |
| | 16 | 1.35 | 3.61 | 5.78 | 10.9 | 1.81 | 4.54 | 7.11 | 13.1 | 1.96 | 4.76 | 7.42 | 13.7 | 2.17 | 5.19 | 8.09 | 15.0 |
| | 24 | 0.52 | 2.76 | 4.90 | 9.96 | 0.87 | 3.57 | 6.08 | 12.0 | 1.04 | 3.81 | 6.42 | 12.6 | 1.22 | 4.21 | 7.05 | 13.8 |
| 14 | 12 | 1.30 | 3.52 | 5.67 | 10.8 | 1.74 | 4.43 | 6.97 | 12.9 | 1.89 | 4.65 | 7.29 | 13.5 | 2.10 | 5.08 | 7.95 | 14.8 |
| | 16 | 0.73 | 2.94 | 5.06 | 10.1 | 1.10 | 3.77 | 6.25 | 12.1 | 1.26 | 4.00 | 6.59 | 12.7 | 1.46 | 4.40 | 7.23 | 14.0 |
| | 24 | | 1.84 ⁴ | 3.89 | 8.80 | | 2.50 | 4.89 | 10.5 | | 2.76 | 5.25 | 11.2 | 0.22 ⁴ | 3.10 | 5.83 | 12.4 |
| 16 | 12 | 0.76 ⁴ | 2.93 | 5.02 | 9.98 | 1.12 | 3.73 | 6.18 | 11.9 | 1.28 | 3.97 | 6.52 | 12.5 | 1.48 | 4.37 | 7.15 | 13.8 |
| | 16 | | 2.20 ⁴ | 4.24 | 9.11 | 0.34 ³ | 2.90 | 5.27 | 10.9 | 0.52 ⁴ | 3.15 | 5.62 | 11.5 | 0.67 ⁴ | 3.51 | 6.22 | 12.7 |
| | 24 | | 0.85 ³ | 2.78 ³ | 7.46 ⁴ | | 1.35 ³ | 3.57 ⁴ | 8.89 | | 1.62 ³ | 3.95 ⁴ | 9.58 | | 1.91 ³ | 4.47 | 10.7 |

¹ Deflection meets L/120 ² Deflection meets L/240 ³ Deflection meets L/360 ⁴ Deflection meets L/600 *If no note, deflection meets L/720

8"

40 psf Lateral Load

| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.46 | 4.73 | 6.95 | 12.2 | 3.06 | 5.84 | 8.49 | 14.7 | 3.17 | 6.02 | 8.76 | 15.2 | 3.44 | 6.50 | 9.48 | 16.5 |
| | 16 | 2.24 | 4.51 | 6.73 | 11.9 | 2.81 | 5.59 | 8.24 | 14.4 | 2.93 | 5.78 | 8.51 | 14.9 | 3.19 | 6.25 | 9.22 | 16.2 |
| | 24 | 1.80 | 4.08 | 6.29 | 11.5 | 2.31 | 5.10 | 7.72 | 13.8 | 2.45 | 5.30 | 8.02 | 14.4 | 2.69 | 5.75 | 8.70 | 15.7 |
| 9 | 12 | 2.27 | 4.54 | 6.76 | 12.0 | 2.85 | 5.63 | 8.27 | 14.4 | 2.97 | 5.81 | 8.55 | 14.9 | 3.23 | 6.28 | 9.25 | 16.3 |
| | 16 | 1.99 | 4.27 | 6.48 | 11.7 | 2.54 | 5.31 | 7.94 | 14.1 | 2.67 | 5.51 | 8.23 | 14.6 | 2.91 | 5.97 | 8.92 | 15.9 |
| | 24 | 1.44 | 3.72 | 5.92 | 11.1 | 1.91 | 4.69 | 7.29 | 13.3 | 2.06 | 4.90 | 7.59 | 13.9 | 2.28 | 5.33 | 8.26 | 15.2 |
| 10 | 12 | 2.07 | 4.34 | 6.55 | 11.7 | 2.62 | 5.39 | 8.02 | 14.1 | 2.75 | 5.58 | 8.30 | 14.7 | 3.00 | 6.04 | 9.00 | 16.0 |
| | 16 | 1.73 | 4.00 | 6.20 | 11.4 | 2.23 | 5.00 | 7.61 | 13.7 | 2.37 | 5.20 | 7.91 | 14.2 | 2.60 | 5.65 | 8.59 | 15.5 |
| | 24 | 1.05 | 3.32 | 5.50 | 10.6 | 1.47 | 4.23 | 6.80 | 12.8 | 1.63 | 4.45 | 7.12 | 13.4 | 1.83 | 4.87 | 7.77 | 14.6 |
| 12 | 12 | 1.60 | 3.85 | 6.03 | 11.2 | 2.08 | 4.82 | 7.41 | 13.4 | 2.22 | 5.03 | 7.71 | 14.0 | 2.45 | 5.47 | 8.39 | 15.3 |
| | 16 | 1.11 | 3.36 | 5.52 | 10.6 | 1.53 | 4.26 | 6.81 | 12.8 | 1.69 | 4.48 | 7.13 | 13.4 | 1.90 | 4.90 | 7.79 | 14.6 |
| | 24 | 0.17 ⁴ | 2.41 | 4.53 | 9.56 | 0.47 | 3.17 | 5.65 | 11.5 | 0.66 | 3.42 | 6.00 | 12.1 | 0.82 | 3.79 | 6.61 | 13.3 |
| 14 | 12 | 1.05 | 3.27 | 5.41 | 10.5 | 1.46 | 4.14 | 6.66 | 12.6 | 1.62 | 4.37 | 6.98 | 13.2 | 1.82 | 4.79 | 7.64 | 14.4 |
| | 16 | 0.42 ⁴ | 2.62 | 4.72 | 9.71 | 0.75 | 3.40 | 5.86 | 11.6 | 0.92 | 3.64 | 6.20 | 12.3 | 1.10 | 4.02 | 6.82 | 13.5 |
| | 24 | | 1.38 ³ | 3.40 ⁴ | 8.26 | | 1.98 ⁴ | 4.32 | 9.89 | | 2.25 ⁴ | 4.70 | 10.6 | | 2.57 | 5.26 | 11.7 |
| 16 | 12 | 0.46 ³ | 2.61 | 4.68 | 9.60 | 0.78 ⁴ | 3.37 | 5.79 | 11.5 | 0.95 | 3.61 | 6.13 | 12.1 | 1.13 | 4.00 | 6.75 | 13.3 |
| | 16 | | 1.80 ³ | 3.81 ⁴ | 8.62 | | 2.44 ⁴ | 4.77 | 10.3 | 0.10 ³ | 2.70 ⁴ | 5.13 | 10.9 | 0.23 ⁴ | 3.04 | 5.71 | 12.1 |
| | 24 | | 0.30 ³ | 2.18 ³ | 6.78 ⁴ | | 0.73 ³ | 2.89 ³ | 8.08 ⁴ | | 1.01 ³ | 3.28 ³ | 8.79 | | 1.26 ³ | 3.77 ⁴ | 9.89 |

8"

50 psf Lateral Load

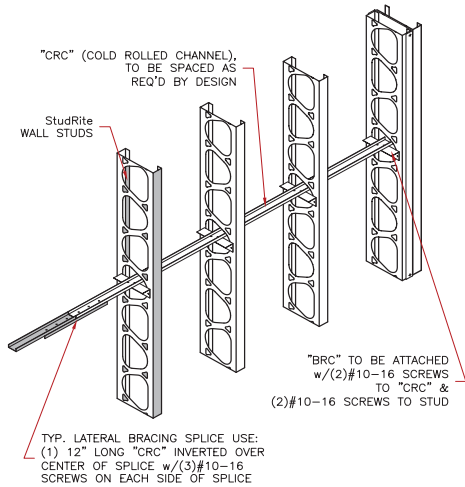
| Wall Height (ft) | Stud Spacing (in.) o.c. | 800SR162 | | | | 800SR200 | | | | 800SR250 | | | | 800SR300 | | | |
|------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | | 33 ksi | | 50 ksi | |
| | | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 | 43 | 54 | 68 | 97 |
| 8 | 12 | 2.29 | 4.56 | 6.78 | 12.0 | 2.87 | 5.65 | 8.30 | 14.5 | 2.99 | 5.84 | 8.58 | 15.0 | 3.25 | 6.31 | 9.28 | 16.3 |
| | 16 | 2.01 | 4.29 | 6.51 | 11.7 | 2.56 | 5.34 | 7.98 | 14.1 | 2.69 | 5.54 | 8.26 | 14.6 | 2.94 | 6.00 | 8.96 | 15.9 |
| | 24 | 1.47 | 3.76 | 5.96 | 11.1 | 1.94 | 4.73 | 7.34 | 13.4 | 2.09 | 4.94 | 7.64 | 14.0 | 2.32 | 5.38 | 8.31 | 15.3 |
| 9 | 12 | 2.06 | 4.34 | 6.55 | 11.8 | 2.62 | 5.39 | 8.02 | 14.1 | 2.74 | 5.58 | 8.31 | 14.7 | 2.99 | 6.05 | 9.01 | 16.0 |
| | 16 | 1.72 | 3.99 | 6.20 | 11.4 | 2.22 | 5.00 | 7.61 | 13.7 | 2.36 | 5.20 | 7.91 | 14.3 | 2.60 | 5.65 | 8.59 | 15.5 |
| | 24 | 1.03 | 3.32 | 5.50 | 10.7 | 1.45 | 4.22 | 6.80 | 12.8 | 1.61 | 4.45 | 7.12 | 13.4 | 1.82 | 4.86 | 7.77 | 14.7 |
| 10 | 12 | 1.81 | 4.08 | 6.28 | 11.5 | 2.33 | 5.09 | 7.71 | 13.8 | 2.46 | 5.30 | 8.00 | 14.3 | 2.70 | 5.75 | 8.69 | 15.6 |
| | 16 | 1.39 | 3.66 | 5.85 | 11.0 | 1.85 | 4.61 | 7.20 | 13.2 | 2.00 | 4.83 | 7.51 | 13.8 | 2.22 | 5.26 | 8.18 | 15.1 |
| | 24 | 0.55 | 2.83 | 4.99 | 10.1 | 0.91 | 3.66 | 6.20 | 12.1 | 1.08 | 3.90 | 6.54 | 12.8 | 1.27 | 4.29 | 7.16 | 14.0 |
| 12 | 12 | 1.23 | 3.48 | 5.65 | 10.8 | 1.67 | 4.40 | 6.96 | 12.9 | 1.82 | 4.62 | 7.28 | 13.5 | 2.04 | 5.04 | 7.94 | 14.8 |
| | 16 | 0.64 | 2.88 | 5.02 | 10.1 | 1.00 | 3.71 | 6.23 | 12.1 | 1.17 | 3.95 | 6.56 | 12.7 | 1.36 | 4.34 | 7.19 | 14.0 |
| | 24 | | 1.72 ⁴ | 3.80 | 8.78 | | 2.38 | 4.81 | 10.5 | | 2.65 | 5.18 | 11.2 | | 2.99 | 5.75 | 12.4 |
| 14 | 12 | 0.58 ⁴ | 2.78 | 4.89 | 9.90 | 0.92 | 3.58 | 6.05 | 11.9 | 1.09 | 3.82 | 6.39 | 12.5 | 1.27 | 4.21 | 7.02 | 13.7 |
| | 16 | | 1.99 ⁴ | 4.05 | 8.98 | | 2.68 | 5.08 | 10.8 | 0.25 ⁴ | 2.93 | 5.44 | 11.4 | 0.39 | 3.28 | 6.03 | 12.6 |
| | 24 | | 0.51 ³ | 2.46 ³ | 7.22 | | 0.98 ³ | 3.23 ⁴ | 8.64 | | 1.27 ³ | 3.63 ⁴ | 9.35 | | 1.54 ³ | 4.14 | 10.5 |
| 16 | 12 | | 2.00 ³ | 4.02 | 8.86 | 0.12 ³ | 2.67 ⁴ | 5.02 | 10.6 | 0.31 ⁴ | 2.92 | 5.38 | 11.2 | 0.45 ⁴ | 3.27 | 5.96 | 12.4 |
| | 16 | | 1.04 ³ | 2.98 ³ | 7.68 | | 1.57 ³ | 3.80 ⁴ | 9.16 | | 1.83 ³ | 4.18 ⁴ | 9.85 | | 2.13 ³ | 4.72 | 11.0 |
| | 24 | | | 1.05 ³ | 5.50 ³ | | | 1.58 ³ | 6.55 ³ | | | 1.99 ³ | 7.29 ⁴ | | | 2.41 ³ | 8.32 |

¹ Deflection meets L/120 ² Deflection meets L/240 ³ Deflection meets L/360 ⁴ Deflection meets L/600 *If no note, deflection meets L/720

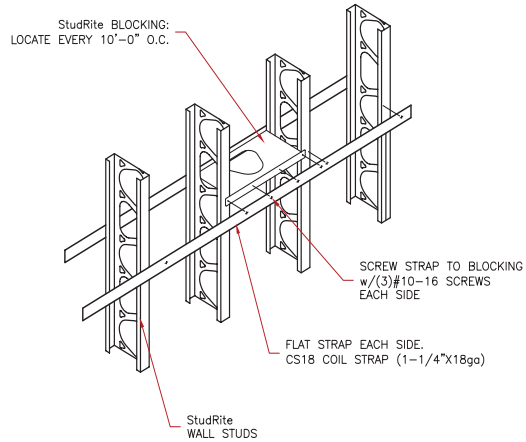


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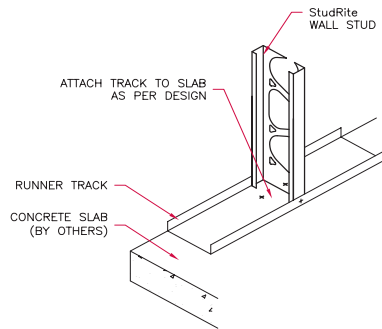
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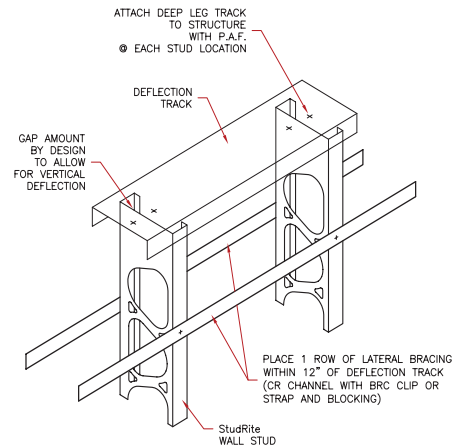
1 STUD BRACING
CR CHANNEL WITH BRC CLIP



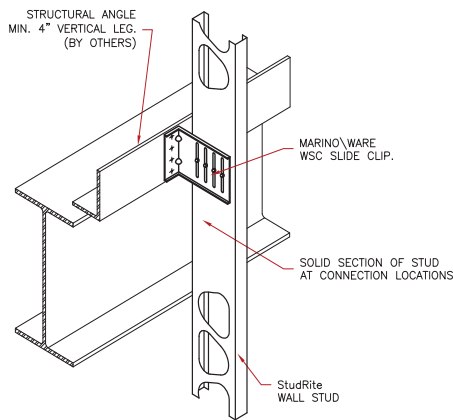
2 STUD BRACING
STRAP AND SOLID BLOCKING FOR 6" AND WIDER STUDS ONLY



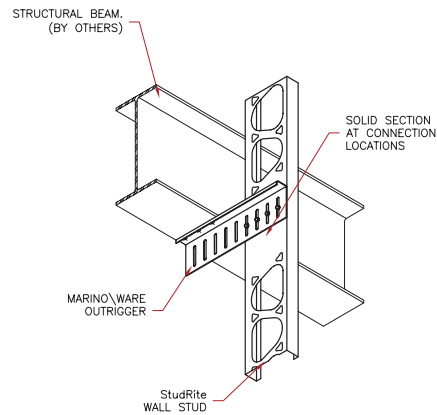
3 STUD TO TRACK DETAIL
ANCHORAGE TO STRUCTURE



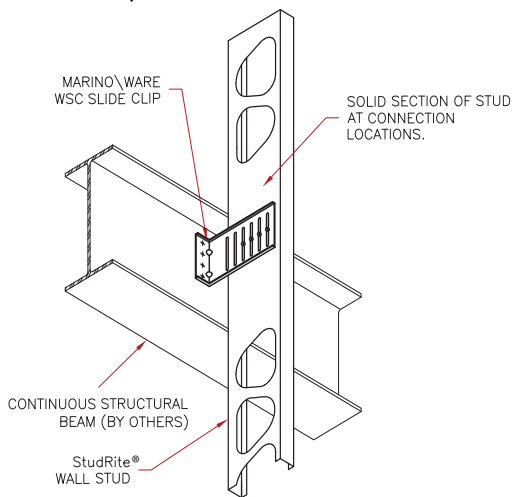
4 DEFLECTION TRACK
CURTAIN WALL STUD WITH LATERAL BRACING



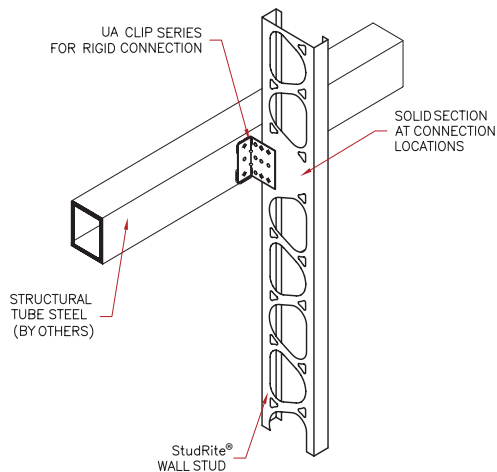
5 STUD ATTACHMENT
CURTAINWALL BY-PASS CONDITION USING MARINO WARE WSC SLIDE CLIP



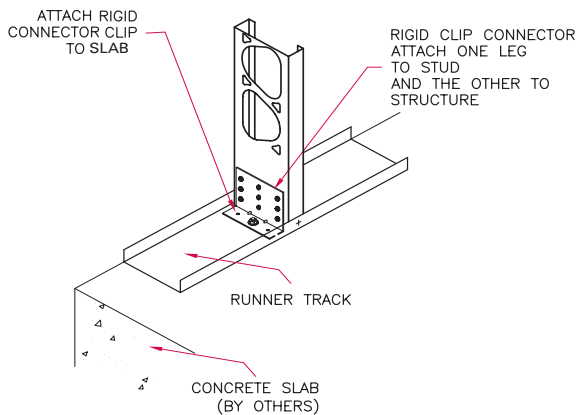
6 STUD ATTACHMENT
CURTAINWALL BY-PASS CONDITION USING MARINO WARE OUTRIGGER



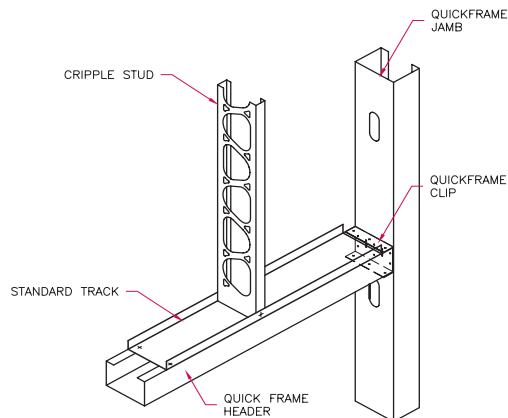
7 STUD ATTACHMENT
WSC TO NON-LOAD BEARING STUD



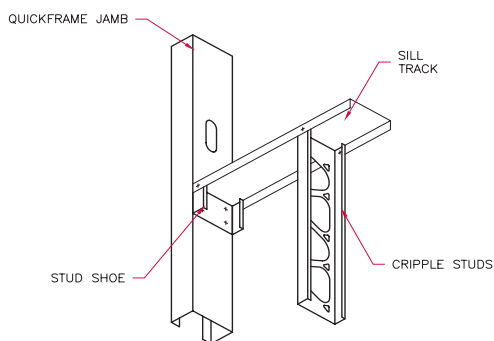
8 STUD ATTACHMENT
CLIP ANGLE WELDED TO STRUCTURE ANGLE AND SCREW ATTACHED TO STUD



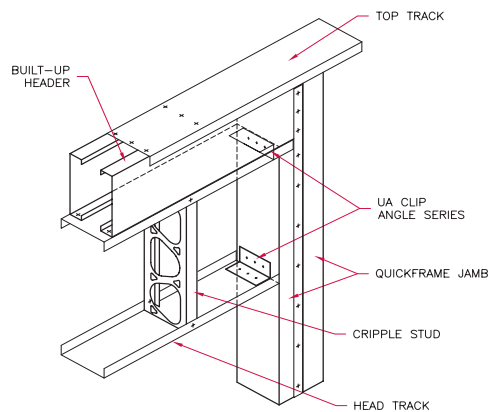
9 STUD TRACK ANCHORAGE



10 LAY-IN HEADER DETAIL
NON-LOAD BEARING CURTAIN WALL HEADER



11 SILL CONNECTION
CONNECTION OF SILL TO QUICK FRAME SYSTEM

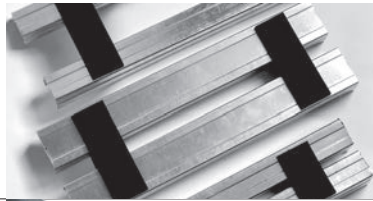


12 BOXED HEADER CONNECTION
LOAD BEARING HEADER - TWO MEMBER BOXED

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