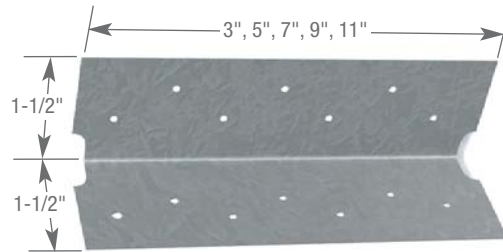


EasyClip™ S-Series™ Support Clips are used in any rigid connection application not requiring a long leg.

- 1-1/2" x 1-1/2" legs.
- Lengths available in 3", 5", 7", 9" and 11".
- Available in 16, 14 and 12 gauge.
- Prepunched for faster and more accurate fastener placement.

Dietrich™ EasyClip™ S-Series™ support clips are used for rigid connections in window and door framing. These clips are also used in joist, bypass or other miscellaneous connections to secure one framing member to another or to secure framing members to the structural frame. EasyClip™ S-Series™ clips are prepunched for faster and more accurate fastener placement.



EasyClip™ S-Series™ Support Clip

Alternative Products

EasyClip™ U-Series™, EasyClip™ X-Series™, EasyClip™ D-Series™ or EasyClip™ B-Series™

Product Dimensions

- 1-1/2" x 1-1/2" x 3" (38.1mm x 38.1mm x 76.2 mm)
- 1-1/2" x 1-1/2" x 5" (38.1mm x 38.1mm x 127 mm)
- 1-1/2" x 1-1/2" x 7" (38.1mm x 38.1mm x 178 mm)
- 1-1/2" x 1-1/2" x 9" (38.1mm x 38.1mm x 229 mm)
- 1-1/2" x 1-1/2" x 11" (38.1mm x 38.1mm x 279 mm)

Material Specifications

- Gauge:** 16 gauge (54 mils)
- Design Thickness:** 0.0566 inches (1.438 mm)
- Gauge:** 14 gauge (68 mils)
- Design Thickness:** 0.0713 inches (1.811 mm)
- Gauge:** 12 gauge (97 mils)
- Design Thickness:** 0.1017 inches (2.583 mm)
- Coating:** G90 (Z275) hot-dipped galvanized coating
- Yield Strength:** Mill-certified SS Grade 50 ksi (340 MPa)
- ASTM:** A 653/A 653M

Installation

E-Series™ support clips are attached to the cold-formed steel (CFS) framing members using #10 minimum self-drilling screws driven through the clip holes into the steel framing. When not filling all holes, install fasteners symmetrically starting at the top and bottom edges and move toward the center of the clip. Clip can also be welded to the CFS framing. Connections to the building frame can be made with powder-actuated fasteners, drill-in concrete anchors or welding. When using the tabular values for a welded clip, provide a full weld to the structure, top to bottom, along the outside of the clip. A 3/4" minimum weld on the outside edge of the 1-1/2" leg is also required to control warping or to hold the clip in place before final welding.

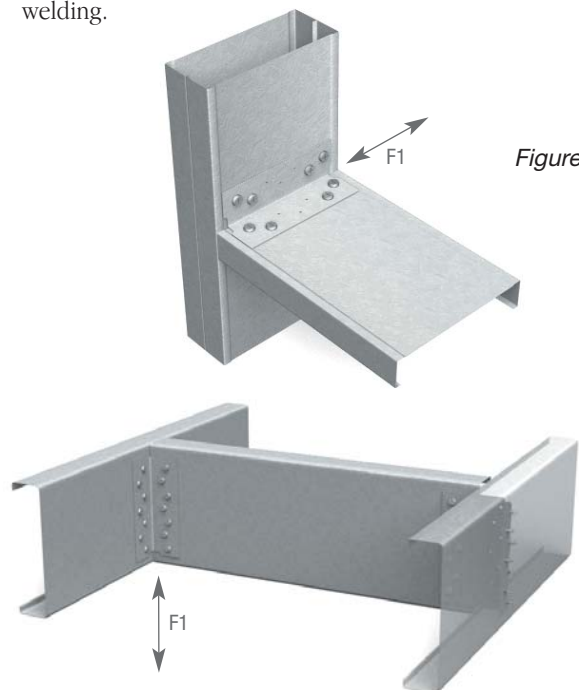
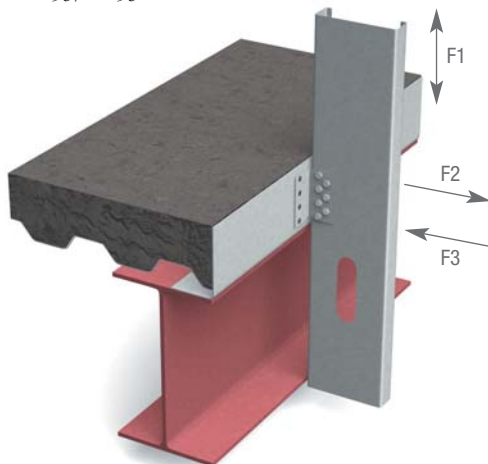


Figure 1

EasyClip™ S-Series™ Support Clips

| DMF Product Code | Thickness | | | | Size | | Weight/Piece | | Packaging |
|------------------|-----------|------|------------------|-------|--------------------|--------------------|--------------|-------|------------|
| | Gauge | Mils | Design Thickness | | Inches | mm | lbs | kg | Pcs/Bucket |
| | | | Inches | mm | | | | | |
| S543 | 16 | 54 | 0.0566 | 1.438 | 1-1/2 x 1-1/2 x 3 | 38.1 x 38.1 x 76.2 | 0.140 | 0.064 | 400 |
| S545 | 16 | 54 | 0.0566 | 1.438 | 1-1/2 x 1-1/2 x 5 | 38.1 x 38.1 x 127 | 0.240 | 0.109 | 200 |
| S547 | 16 | 54 | 0.0566 | 1.438 | 1-1/2 x 1-1/2 x 7 | 38.1 x 38.1 x 178 | 0.340 | 0.154 | 100 |
| S549 | 16 | 54 | 0.0566 | 1.438 | 1-1/2 x 1-1/2 x 9 | 38.1 x 38.1 x 229 | 0.430 | 0.195 | 100 |
| S541 | 16 | 54 | 0.0566 | 1.438 | 1-1/2 x 1-1/2 x 11 | 38.1 x 38.1 x 279 | 0.530 | 0.240 | 100 |
| S683 | 14 | 68 | 0.0713 | 1.811 | 1-1/2 x 1-1/2 x 3 | 38.1 x 38.1 x 76.2 | 0.180 | 0.082 | 200 |
| S685 | 14 | 68 | 0.0713 | 1.811 | 1-1/2 x 1-1/2 x 5 | 38.1 x 38.1 x 127 | 0.300 | 0.136 | 200 |
| S687 | 14 | 68 | 0.0713 | 1.811 | 1-1/2 x 1-1/2 x 7 | 38.1 x 38.1 x 178 | 0.420 | 0.191 | 100 |
| S689 | 14 | 68 | 0.0713 | 1.811 | 1-1/2 x 1-1/2 x 9 | 38.1 x 38.1 x 229 | 0.540 | 0.245 | 100 |
| S681 | 14 | 68 | 0.0713 | 1.811 | 1-1/2 x 1-1/2 x 11 | 38.1 x 38.1 x 279 | 0.660 | 0.299 | 100 |
| S973 | 12 | 97 | 0.1017 | 2.583 | 1-1/2 x 1-1/2 x 3 | 38.1 x 38.1 x 76.2 | 0.260 | 0.118 | 200 |
| S975 | 12 | 97 | 0.1017 | 2.583 | 1-1/2 x 1-1/2 x 5 | 38.1 x 38.1 x 127 | 0.430 | 0.195 | 150 |
| S977 | 12 | 97 | 0.1017 | 2.583 | 1-1/2 x 1-1/2 x 7 | 38.1 x 38.1 x 178 | 0.600 | 0.272 | 100 |
| S979 | 12 | 97 | 0.1017 | 2.583 | 1-1/2 x 1-1/2 x 9 | 38.1 x 38.1 x 229 | 0.770 | 0.349 | 80 |
| S971 | 12 | 97 | 0.1017 | 2.583 | 1-1/2 x 1-1/2 x 11 | 38.1 x 38.1 x 279 | 0.940 | 0.426 | 70 |

EasyClip™ S-Series™ Support Clips

EasyClip™ S-Series™ Support Clips Allowable Clip Capacities (lbs) Using #10–16 Self-Drilling Screws

| Clip | No. of Screws to Steel Framing (1) | Stud Thickness and Yield Strength | | | | | | | | | | | |
|------|------------------------------------|-----------------------------------|------------|------|----------------|------------|------|---------------|------------|------|------------|------------|------|
| | | 20 ga (33 mil) | | | 18 ga (43 mil) | | | 16 ga (54mil) | | | | | |
| | | 33 ksi | | | 33 ksi | | | 33 ksi | | | 50 ksi | | |
| | | F1 | F2 | F3 | F1 | F2 | F3 | F1 | F2 | F3 | F1 | F2 | F3 |
| S543 | 3 | 295(295) | 210(531) | 531 | 437(437) | 210(788) | 788 | 616(555) | 210(1110) | 1110 | 777(555) | 210(1195) | 1400 |
| S545 | 2 | 317(317) | 354(354) | 354 | 470(470) | 371(525) | 525 | 662(662) | 371(740) | 740 | 835(835) | 371(933) | 933 |
| S545 | 5 | 651(651) | 371(885) | 885 | 965(965) | 371(1313) | 1313 | 1361(1361) | 371(1850) | 1850 | 1716(1460) | 371(2105) | 2333 |
| S547 | 4 | 653(653) | 531(708) | 708 | 969(969) | 531(1050) | 1050 | 1365(1365) | 531(1480) | 1480 | 1722(1722) | 531(1867) | 1867 |
| S547 | 7 | 1029(1029) | 531(1239) | 1239 | 1526(1526) | 531(1838) | 1838 | 2151(2151) | 531(2591) | 2591 | 2712(2456) | 531(3015) | 3267 |
| S549 | 4 | 679(679) | 692(708) | 708 | 1007(1007) | 692(1050) | 1050 | 1420(1420) | 692(1480) | 1480 | 1790(1790) | 692(1867) | 1867 |
| S549 | 9 | 1408(1408) | 692(1593) | 1593 | 2090(2090) | 692(2363) | 2363 | 2945(2945) | 692(3331) | 3331 | 3714(3452) | 692(3925) | 4200 |
| S541 | 6 | 1015(1015) | 852(1062) | 1062 | 1505(1505) | 852(1576) | 1576 | 2121(2121) | 852(2221) | 2221 | 2675(2675) | 852(2800) | 2800 |
| S541 | 11 | 1785(1785) | 852(1947) | 1947 | 2648(2648) | 852(2889) | 2889 | 3732(3732) | 852(4071) | 4071 | 4706(4432) | 852(4835) | 5133 |
| S683 | 3 | 295(295) | 333(531) | 531 | 437(437) | 333(788) | 788 | 616(616) | 333(1110) | 1110 | 777(699) | 333(1400) | 1400 |
| S685 | 2 | 317(317) | 354(354) | 354 | 470(470) | 525(525) | 525 | 662(662) | 587(740) | 740 | 835(835) | 587(933) | 933 |
| S685 | 5 | 651(651) | 587(885) | 885 | 965(965) | 587(1313) | 1313 | 1361(1361) | 587(1850) | 1850 | 1716(1716) | 587(2333) | 2333 |
| S687 | 4 | 653(653) | 708(708) | 708 | 969(969) | 841(1050) | 1050 | 1365(1365) | 841(1480) | 1480 | 1722(1722) | 841(1867) | 1867 |
| S687 | 7 | 1029(1029) | 841(1239) | 1239 | 1526(1526) | 841(1838) | 1838 | 2151(2151) | 841(2591) | 2591 | 2712(2712) | 841(3267) | 3267 |
| S689 | 4 | 679(679) | 708(708) | 708 | 1007(1007) | 1050(1050) | 1050 | 1420(1420) | 1095(1480) | 1480 | 1790(1790) | 1095(1867) | 1867 |
| S689 | 9 | 1408(1408) | 1095(1593) | 1593 | 2090(2090) | 1095(2363) | 2363 | 2945(2945) | 1095(3331) | 3331 | 3714(3714) | 1095(4200) | 4200 |
| S681 | 6 | 1015(1015) | 1062(1062) | 1062 | 1505(1505) | 1349(1576) | 1576 | 2121(2121) | 1349(2221) | 2221 | 2675(2675) | 1349(2800) | 2800 |
| S681 | 11 | 1785(1785) | 1349(1947) | 1947 | 2648(2648) | 1349(2889) | 2889 | 3732(3732) | 1349(4071) | 4071 | 4706(4706) | 1349(5133) | 5133 |
| S973 | 3 | 295(295) | 531(531) | 531 | 437(437) | 679(788) | 788 | 616(616) | 679(1110) | 1110 | 777(777) | 679(1400) | 1400 |
| S975 | 2 | 317(317) | 354(354) | 354 | 470(470) | 525(525) | 525 | 662(662) | 740(740) | 740 | 835(835) | 933(933) | 933 |
| S975 | 5 | 651(651) | 885(885) | 885 | 965(965) | 1196(1313) | 1313 | 1361(1361) | 1196(1850) | 1850 | 1716(1716) | 1196(2333) | 2333 |
| S977 | 4 | 653(653) | 708(708) | 708 | 969(969) | 1050(1050) | 1050 | 1365(1365) | 1480(1480) | 1480 | 1722(1722) | 1713(1867) | 1867 |
| S977 | 7 | 1029(1029) | 1239(1239) | 1239 | 1526(1526) | 1713(1838) | 1838 | 2151(2151) | 1713(2591) | 2591 | 2712(2712) | 1713(3267) | 3267 |
| S979 | 4 | 679(679) | 708(708) | 708 | 1007(1007) | 1050(1050) | 1050 | 1420(1420) | 1480(1480) | 1480 | 1790(1790) | 1867(1867) | 1867 |
| S979 | 9 | 1408(1408) | 1593(1593) | 1593 | 2090(2090) | 2229(2363) | 2363 | 2945(2945) | 2229(3331) | 3331 | 3714(3714) | 2229(4200) | 4200 |
| S971 | 6 | 1015(1015) | 1062(1062) | 1062 | 1505(1505) | 1576(1576) | 1576 | 2121(2121) | 2221(2221) | 2221 | 2675(2675) | 2746(2800) | 2800 |
| S971 | 11 | 1785(1785) | 1947(1947) | 1947 | 2648(2648) | 2746(2889) | 2889 | 3732(3732) | 2746(4071) | 4071 | 4706(4706) | 2746(5133) | 5133 |

Table Notes

Screw Capacity Notes:

- The tabulated value indicates the number of screws in a single clip leg attached to the cold-formed steel (CFS) framing.
- Screws shall be attached in a symmetric manner, starting at the outside holes and moving to the center. Reference Figure 1 on opposite page
- The allowable values for F1 are based only on the shear capacity of the clip leg attached to the CFS framing. The capacity of the attachment to other materials and structures must be checked separately.
- The allowable values for F2 assume mechanical fasteners are attached to the structure, and are along the vertical centerline of the clip leg. Mechanical fasteners to other materials and structures must be checked separately.
- The screw diameter must be 0.19" (min.) for #10 screws.
- The ultimate screw shear strength must be a minimum of 1400 lbs. for #10 screws.
- When clips have combinations of F1, F2, and F3, use a linear interaction for combinations of F1 and F3, and a squared interaction for combinations of F1 and F2.
- Screws must be long enough so that at least 3 exposed threads are visible after installation.

- Screw capacity is based on the 1996 AISI Specification.
- Allowable loads have not been increased 33% for wind or seismic.
- For connections made to 14 ga. (68 mils.) and 12 ga. (97 mils.), use the tabulated values for 16 ga. (54 mils.), 50 ksi.
- It is the responsibility of the design professional to detail the drawings for proper clip attachment.
- Contact Dietrich Design Group at 1-800-873-2443 for technical assistance.

Weld Capacity Notes:

- F1 and F2 values in parentheses are maximum shear and tension capacities when the clips are welded to the base structure (min 3/16" — 36 ksi steel)
- Listed weld capacities are computed assuming a E60XX welding rod or wire.
- The clips are to be welded to the structure along the back corner and along the complete length of the clip. When secondary welds are used to hold the clip in place, they are not used in capacity calculations.