



The table values are valid only when screws are used along the outside line of the prepunched holes as shown.

E-Series™ SUPPORT CLIPS ALLOWABLE CLIP CAPACITIES (LBS)

Using #10-16 self-drilling screws

| Product code | No. of screws to steel framing | Stud Thickness and Yield Strength | | | | | | | | |
|--------------|--------------------------------|-----------------------------------|-------------|------|--------------------|-------------|------|--------------------|-------------|------|
| | | 20ga (33mil) 33ksi | | | 18ga (43mil) 33ksi | | | 16ga (54mil) 50ksi | | |
| | | F1 | F2 | F3 | F1 | F2 | F3 | F1 | F2 | F3 |
| E543 | 3 | 101 (101) | 210 (531) | 507 | 150 (150) | 210 (788) | 507 | 266 (155) | 210 (1195) | 507 |
| E545 | 2 | 176 (176) | 354 (354) | 354 | 261 (261) | 371 (525) | 525 | 463 (453) | 371 (933) | 811 |
| | 5 | 251 (251) | 371 (885) | 885 | 372 (372) | 371 (1313) | 912 | 625 (479) | 371 (2105) | 912 |
| E547 | 4 | 380 (380) | 531 (708) | 708 | 564 (564) | 531 (1050) | 1050 | 1002 (970) | 531 (1867) | 1347 |
| | 7 | 455 (455) | 531 (1239) | 1239 | 675 (675) | 531 (1838) | 1318 | 1169 (960) | 531 (3015) | 1318 |
| E549 | 4 | 477 (477) | 692 (708) | 708 | 707 (707) | 692 (1050) | 1050 | 1257 (1257) | 692 (1867) | 1753 |
| | 9 | 706 (706) | 692 (1593) | 1593 | 1048 (1048) | 692 (2363) | 1724 | 1862 (1576) | 692 (3925) | 1724 |
| E541 | 6 | 727 (727) | 852 (1062) | 1062 | 1079 (1079) | 852 (1576) | 1576 | 1918 (1918) | 852 (2800) | 2053 |
| | 11 | 995 (995) | 852 (1947) | 1947 | 1476 (1476) | 852 (2889) | 2130 | 2623 (2301) | 852 (4835) | 2130 |
| E683 | 3 | 101 (101) | 333 (531) | 531 | 150 (150) | 333 (788) | 788 | 266 (196) | 333 (1400) | 1011 |
| E685 | 2 | 176 (176) | 354 (354) | 354 | 261 (261) | 525 (525) | 525 | 463 (463) | 587 (933) | 933 |
| | 5 | 251 (251) | 587 (885) | 885 | 372 (372) | 587 (1313) | 1313 | 661 (602) | 587 (2333) | 1817 |
| E687 | 4 | 380 (380) | 708 (708) | 708 | 564 (564) | 841 (1050) | 1050 | 1002 (1002) | 841 (1867) | 1867 |
| | 7 | 455 (455) | 841 (1239) | 1239 | 675 (675) | 841 (1838) | 1838 | 1200 (1200) | 841 (3267) | 2625 |
| E689 | 4 | 477 (477) | 708 (708) | 708 | 707 (707) | 1050 (1050) | 1050 | 1257 (1257) | 1095 (1867) | 1867 |
| | 9 | 706 (706) | 1095 (1593) | 1593 | 1048 (1048) | 1095 (2363) | 2363 | 1862 (1862) | 1095 (4200) | 3434 |
| E681 | 6 | 727 (727) | 1062 (1062) | 1062 | 1079 (1079) | 1349 (1576) | 1576 | 1918 (1918) | 1349 (2800) | 2800 |
| | 11 | 995 (995) | 1349 (1947) | 1947 | 1476 (1476) | 1349 (2889) | 2889 | 2623 (2623) | 1349 (5133) | 4244 |
| E973 | 3 | 101 (101) | 531 (531) | 531 | 150 (150) | 679 (788) | 788 | 266 (266) | 679 (1400) | 1400 |
| E975 | 2 | 176 (176) | 354 (354) | 354 | 261 (261) | 525 (525) | 525 | 463 (463) | 933 (933) | 933 |
| | 5 | 251 (251) | 885 (885) | 885 | 372 (372) | 1196 (1313) | 1313 | 661 (661) | 1196 (2333) | 2333 |
| E977 | 4 | 380 (380) | 708 (708) | 708 | 564 (564) | 1050 (1050) | 1050 | 1002 (1002) | 1713 (1867) | 1867 |
| | 7 | 455 (455) | 1239 (1239) | 1239 | 675 (675) | 1713 (1838) | 1838 | 1200 (1200) | 1713 (3267) | 3267 |
| E979 | 4 | 477 (477) | 708 (708) | 708 | 707 (707) | 1050 (1050) | 1050 | 1257 (1257) | 1867 (1867) | 1867 |
| | 9 | 706 (706) | 1593 (1593) | 1593 | 1048 (1048) | 2229 (2363) | 2363 | 1862 (1862) | 2229 (4200) | 4200 |
| E971 | 6 | 727 (727) | 1062 (1062) | 1062 | 1079 (1079) | 1576 (1576) | 1576 | 1918 (1918) | 2746 (2800) | 2800 |
| | 11 | 995 (995) | 1947 (1947) | 1947 | 1476 (1476) | 2746 (2889) | 2889 | 2623 (2623) | 2746 (5133) | 5133 |

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. See screw options on opposite page and above for examples.
- The allowable values for F1 are based only on the shear capacity of the 4" 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 using the 1-1/2" leg, and are along the vertical centerline of the clip leg. Mechanical fasteners to other materials and structures must be checked separately.
- This table is intended for use by qualified engineers only. It is the responsibility of the engineer to verify that the tabulated values apply to a specific connection application.
- 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.
- 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.

- Screws must be long enough so that at least 3 exposed threads are visible after installation.

- Allowable loads have not been increased 33% for wind or seismic.

- For connections made to 14ga (68mil) and 12ga (97mil), use the tabulated values for 16ga (54mil), 50ksi.

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" — 36ksi)
- Listed weld capacities are computed assuming an E70XX welding rod or wire.
- The clips are to be welded to the structure along the back corner 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.

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