

H-Series™ Universal Header Hanger

Connect box headers to jambs or beams to columns.

The H-Series™ universal header hanger is used to connect box headers to jambs or beams to columns and transfer large vertical loads. This universal hanger is designed so one part can be used for either side of the connection. The hanger also features a support tab for proper alignment and easy installation.

The H-Series hanger is also prepunched with a series of round, square and triangle holes to ensure proper fastener placement for specified loads.

ALTERNATIVE PRODUCTS

HDS® Framing System, HDSC Header Bracket, GP-Series™ Unpunched Gusset Plate

PRODUCT DIMENSIONS

6" x 8-1/2"

MATERIAL SPECIFICATIONS

Gauge: 18 gauge (43mil)

Design Thickness: 0.0451 inches

Gauge: 16 gauge (54mil)

Design Thickness: 0.0566 inches

Gauge: 14 gauge (68mil)

Design Thickness: 0.0713 inches

Coating: G90

Yield Strength: 33ksi for 18 gauge

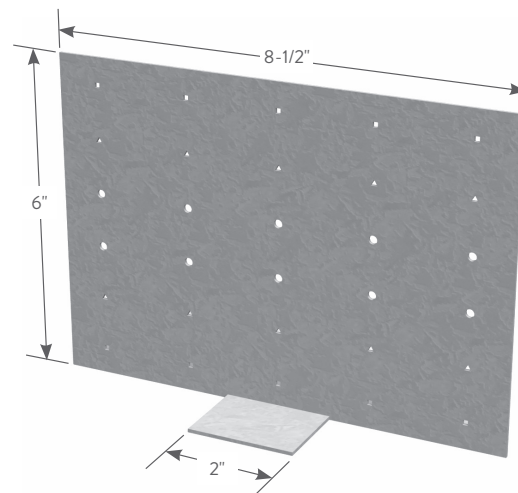
50ksi for 14 & 16 gauge

ASTM: A653/A653M

INSTALLATION

Install the H-Series universal header hanger to the jamb studs with the required number of screws as needed to achieve required loading. Normally two connectors are required, one on each side of the header.

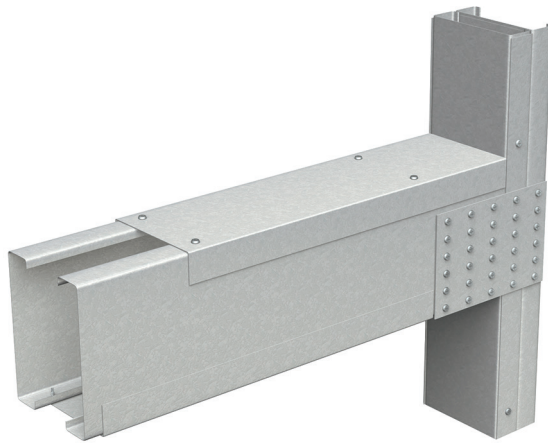
Position header on header support tabs and secure header to header hanger with number of fasteners required by design.



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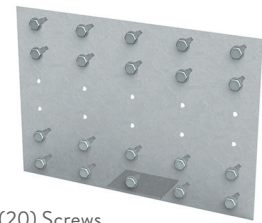
| Product code | Thickness | | Size (in) | Packaging Pcs./Bucket |
|--------------|--------------|-----------------------|-----------|-----------------------|
| | Mils (Gauge) | Design thickness (in) | | |
| H436 | 43mil (18ga) | 0.0451 | 6 x 8-1/2 | 50 |
| H546 | 54mil (16ga) | 0.0566 | 6 x 8-1/2 | 50 |
| H686 | 68mil (14ga) | 0.0713 | 6 x 8-1/2 | 50 |



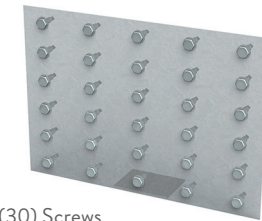
SCREW OPTIONS



(10) Screws
(6) at Header (4) at Jamb



(20) Screws
(12) at Header (8) at Jamb



(30) Screws
(18) at Header (12) at Jamb

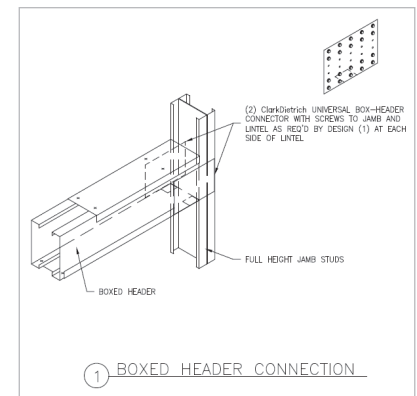
Allowable Loading Chart for Single Connectors

| Connector | Framing Mils (Gauge) | Framing Fy (ksi) | 10 Screws | | 20 Screws | | 30 Screws | |
|----------------------------|----------------------|------------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| | | | Jamb capacity | Header capacity | Jamb capacity | Header capacity | Jamb capacity | Header capacity |
| H436 Using #10"-16" Screws | 33mil (20ga) | 33 | 561 | 307 | 1121 | 507 | 1361 | 637 |
| | 43mil (18ga) | 33 | 832 | 455 | 1361 | 753 | 1361 | 945 |
| | 54mil (16ga) | 33 | 832 | 455 | 1361 | 753 | 1361 | 945 |
| | | 50 | 832 | 455 | 1361 | 753 | 1361 | 945 |
| | 68mil (14ga) | 33 | 832 | 455 | 1361 | 753 | 1361 | 945 |
| | | 50 | 832 | 455 | 1361 | 753 | 1361 | 945 |
| H546 Using #10"-16" Screws | 33mil (20ga) | 33 | 561 | 307 | 1121 | 507 | 1682 | 637 |
| | 43mil (18ga) | 33 | 832 | 455 | 1664 | 753 | 2496 | 945 |
| | 54mil (16ga) | 33 | 1172 | 641 | 2345 | 1061 | 2634 | 1332 |
| | | 50 | 1682 | 919 | 2634 | 1522 | 2634 | 1910 |
| | 68mil (14ga) | 33 | 1655 | 905 | 2634 | 1498 | 2634 | 1880 |
| | | 50 | 1682 | 919 | 2634 | 1522 | 2634 | 1910 |
| H686 Using 1/4"-14" Screws | 33mil (20ga) | 33 | 630 | 344 | 1260 | 570 | 1890 | 716 |
| | 43mil (18ga) | 33 | 935 | 511 | 1870 | 846 | 2805 | 1062 |
| | 54mil (16ga) | 33 | 1318 | 720 | 2635 | 1193 | 3821 | 1497 |
| | | 50 | 1997 | 1091 | 3821 | 1807 | 3821 | 2268 |
| | 68mil (14ga) | 33 | 1860 | 1017 | 3720 | 1684 | 3821 | 2113 |
| | | 50 | 2818 | 1541 | 3821 | 2551 | 3821 | 3201 |
| | 33 | 2818 | 1541 | 3821 | 2551 | 3821 | 3201 | |
| | 50 | 2818 | 1541 | 3821 | 2551 | 3821 | 3201 | |

Notes:

- To determine the connection capacity, use the minimum value from the jamb and header columns. For instance, using an H686 for the 30-screw option with a 16 gauge, 50ksi jamb stud and a 12 gauge, 50ksi header, the allowable load per plate is 3201 lbs (i.e., the minimum of 3821 lbs for the jamb and 3201 lbs for the header).
- For the H436 and the H546, the tabulated capacity is based on #10-16 screws with an ultimate screw shear capacity of 1400 lbs per screw. For the H686, the tabulated capacity is based on 1/4"-14 screws with an ultimate screw shear capacity of 2600 lbs per screw.
- H436 connectors are 33ksi, H546 and H686 connectors are 50ksi.
- Reference figures above for screw placement of the 10-, 20- and 30-screw options.
- Values are based on a minimum of (2) back-to-back jamb studs as shown above.

Typical Construction Details



Visit our CAD Library at clarkdietrich.com to view or download construction details in .dwg, .dxf, and .pdf formats.