

## Double Shear Face-Mount Hangers

### CDMDS

Double shear nailing distributes loads at two points across the joist nails, reducing the number of nails and enabling quicker installation. Use the enhanced nailing schedule for greater load carrying capacities.

#### Product Data & Ordering Information:

|                  |  |
|------------------|--|
| <b>Material</b>  | Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)  |
| <b>Coating</b>   | G90 (Z275) hot-dipped galvanized coating<br>(G185 available except CDMDS1.81/10, CDMDS210-3, CDMDS210-4, CDMDS26-3 & CDMDS28-4)  |
| <b>Thickness</b> | 18ga (43mil), 0.0451" Design thickness, 0.0428" Minimum thickness<br>16ga (54mil), 0.0566" Design thickness, 0.0538" Minimum thickness   |
| <b>Packaging</b> | CDMDS26 = 50 pcs/ctn<br>CDMDS26-2, CDMDS26-3, CDMDS28, CDMDS28-2, CDMDS28-3, CDMDS28-4, CDMDS1.81/10, CDMDS210, CDMDS210-2, CDMDS46, CDMDS48, CDMDS410 = 25 pcs/ctn<br>CDMDS210-3, CDMDS210-4 = 20 pcs/ctn |



#### Installation:

- Use all specified fasteners.
- Joist nails must be driven at an angle in the joist or truss to achieve the published loads.
- Not designed for welded applications

#### Code Approvals & Performance Standards

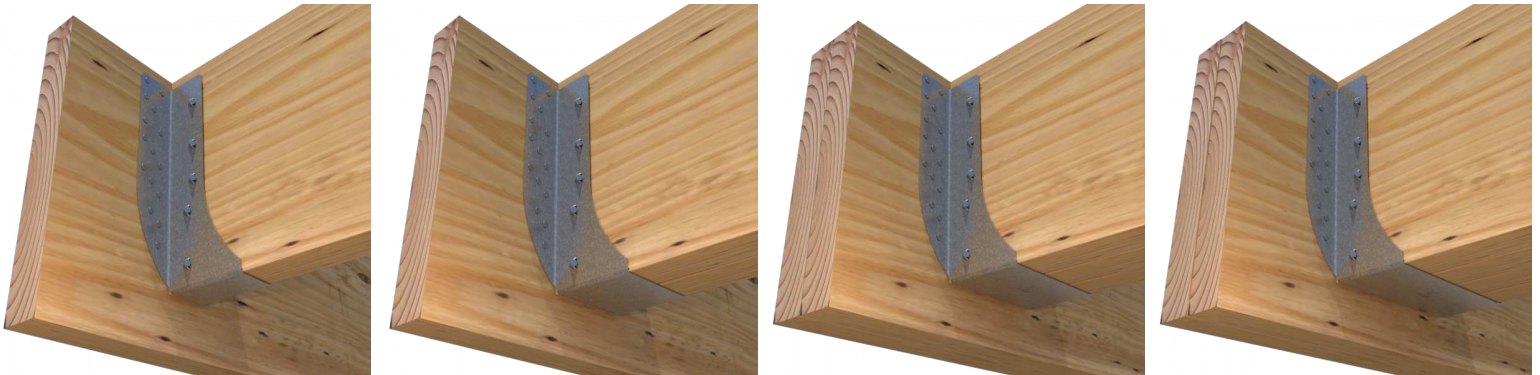
- [ASTM A653](#) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- [ASTM A1003](#) Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members
- [ICC-ES ESR-5062](#) Evaluation report for joist hangers
- [SDS For ASTM A1003 Steel Framing Products](#) For Interior Framing, Exterior Framing and Clips/Accessories

**Sustainability Credits** For more details and LEED letters contact Technical Services at 888-437-3244 or visit [clarkdietrich.com/LEED](http://clarkdietrich.com/LEED).

- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

#### Storage

All stored materials shall be kept dry. Materials shall be stacked off the ground, supported on a level platform, and protected from the weather.

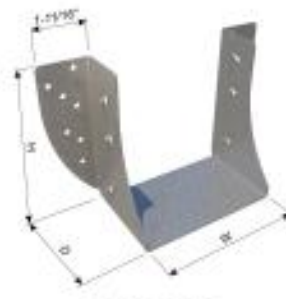




CDMDS26



CDMDS26-2



CDMDS26-3



CDMDS28



CDMDS28-2



CDMDS28-3



CDMDS28-4



CDMDS1-81/10



CDMDS210



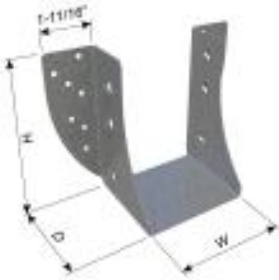
CDMDS210-2



CDMDS210-3



CDMDS210-4



CDMDS46



CDMDS48



CDMDS410

**Hangers** 06.00.00 (Wood, Plastics and Composites)
**Spruce-Pine Fir (0.42 Specific Gravity)**

| Product Code | Fastening | Total Supported Breadth (in) | Gauge | Hanger Dimension (in) |                |               | Nails    |          |        | Allowable Loads (lbs) |                      |                      |                      |
|--------------|-----------|------------------------------|-------|-----------------------|----------------|---------------|----------|----------|--------|-----------------------|----------------------|----------------------|----------------------|
|              |           |                              |       | Clear Seat Width      | Overall Height | Overall Depth | Type     | Quantity |        | Downward              |                      |                      | Uplift               |
|              |           |                              |       |                       |                |               |          | Joist    | Header | C <sub>D</sub> =1.00  | C <sub>D</sub> =1.15 | C <sub>D</sub> =1.25 | C <sub>D</sub> =1.60 |
| CDMDS26      | Standard  | 1.5                          | 18    | 1-5/8                 | 5-11/64        | 3-5/32        | 16d Comm | 6        | 14     | 2395                  | 2560                 | 2560                 | 1310                 |
| CDMDS28      | Standard  | 1.5                          | 18    | 1-5/8                 | 6-15/16        | 3-5/32        | 16d Comm | 8        | 22     | 3505                  | 3745                 | 3905                 | 2805                 |
| CDMDS210     | Standard  | 1.5                          | 18    | 1-5/8                 | 8-13/16        | 3-5/32        | 16d Comm | 10       | 30     | 3905                  | 4205                 | 4405                 | 2970                 |
| CDMDS1.81/10 | Standard  | 1.75                         | 18    | 1-13/16               | 8-13/16        | 3-5/32        | 16d Comm | 10       | 30     | 4225                  | 4525                 | 4665                 | 2970                 |
| CDMDS26-2    | Standard  | 3                            | 16    | 3-1/4                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 2425                  | 2790                 | 3035                 | 1295                 |
| CDMDS28-2    | Standard  | 3                            | 16    | 3-1/4                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 3645                  | 4190                 | 4555                 | 2085                 |
| CDMDS210-2   | Standard  | 3                            | 16    | 3-1/4                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 4860                  | 5590                 | 6075                 | 3105                 |
| CDMDS46      | Standard  | 3.5                          | 16    | 3-5/8                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 2425                  | 2790                 | 3035                 | 1295                 |
| CDMDS48      | Standard  | 3.5                          | 16    | 3-5/8                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 3645                  | 4190                 | 4555                 | 2085                 |
| CDMDS410     | Standard  | 3.5                          | 16    | 3-5/8                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 4860                  | 5590                 | 6075                 | 3105                 |
| CDMDS26-3    | Standard  | 4.5                          | 16    | 4-7/8                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 2425                  | 2790                 | 3035                 | 1295                 |
| CDMDS28-3    | Standard  | 4.5                          | 16    | 4-7/8                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 3645                  | 4190                 | 4555                 | 2085                 |
| CDMDS210-3   | Standard  | 4.5                          | 16    | 4-7/8                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 4860                  | 5590                 | 6075                 | 3105                 |
| CDMDS28-4    | Standard  | 6                            | 16    | 6-9/16                | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 3645                  | 4190                 | 4555                 | 2085                 |
| CDMDS210-4   | Standard  | 6                            | 16    | 6-9/16                | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 4860                  | 5590                 | 6075                 | 3105                 |

**Douglas Fir-Larch (0.50 Specific Gravity)**

| Product Code | Fastening | Total Supported Breadth (in) | Gauge | Hanger Dimension (in) |                |               | Nails    |          |        | Allowable Loads (lbs) |                      |                      |                      |
|--------------|-----------|------------------------------|-------|-----------------------|----------------|---------------|----------|----------|--------|-----------------------|----------------------|----------------------|----------------------|
|              |           |                              |       | Clear Seat Width      | Overall Height | Overall Depth | Type     | Quantity |        | Downward              |                      |                      | Uplift               |
|              |           |                              |       |                       |                |               |          | Joist    | Header | C <sub>D</sub> =1.00  | C <sub>D</sub> =1.15 | C <sub>D</sub> =1.25 | C <sub>D</sub> =1.60 |
| CDMDS26      | Standard  | 1.5                          | 18    | 1-5/8                 | 5-11/64        | 3-5/32        | 16d Comm | 6        | 14     | 2800                  | 3045                 | 3045                 | 1560                 |
| CDMDS28      | Standard  | 1.5                          | 18    | 1-5/8                 | 6-15/16        | 3-5/32        | 16d Comm | 8        | 22     | 4200                  | 4710                 | 4710                 | 2480                 |
| CDMDS210     | Standard  | 1.5                          | 18    | 1-5/8                 | 8-13/16        | 3-5/32        | 16d Comm | 10       | 30     | 5160                  | 5515                 | 5555                 | 3540                 |
| CDMDS1.81/10 | Standard  | 1.75                         | 18    | 1-13/16               | 8-13/16        | 3-5/32        | 16d Comm | 10       | 30     | 5555                  | 5555                 | 5555                 | 3540                 |
| CDMDS26-2    | Standard  | 3                            | 16    | 3-1/4                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 2835                  | 3260                 | 3545                 | 1545                 |
| CDMDS28-2    | Standard  | 3                            | 16    | 3-1/4                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4255                  | 4890                 | 5315                 | 2480                 |
| CDMDS210-2   | Standard  | 3                            | 16    | 3-1/4                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 5670                  | 6520                 | 7090                 | 3695                 |
| CDMDS46      | Standard  | 3.5                          | 16    | 3-5/8                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 2835                  | 3260                 | 3545                 | 1545                 |
| CDMDS48      | Standard  | 3.5                          | 16    | 3-5/8                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4255                  | 4890                 | 5315                 | 2480                 |
| CDMDS410     | Standard  | 3.5                          | 16    | 3-5/8                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 5670                  | 6520                 | 7090                 | 3695                 |
| CDMDS26-3    | Standard  | 4.5                          | 16    | 4-7/8                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 2835                  | 3260                 | 3545                 | 1545                 |
| CDMDS28-3    | Standard  | 4.5                          | 16    | 4-7/8                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4255                  | 4890                 | 5315                 | 2480                 |
| CDMDS210-3   | Standard  | 4.5                          | 16    | 4-7/8                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 5670                  | 6520                 | 7090                 | 3695                 |
| CDMDS28-4    | Standard  | 6                            | 16    | 6-9/16                | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4255                  | 4890                 | 5315                 | 2480                 |
| CDMDS210-4   | Standard  | 6                            | 16    | 6-9/16                | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 5670                  | 6520                 | 7090                 | 3695                 |

**Southern Pine (0.55 Specific Gravity)**

| Product Code | Fastening | Total Supported Breadth (in) | Gauge | Hanger Dimension (in) |                |               | Nails    |          |        | Allowable Loads (lbs) |                      |                      |                      |
|--------------|-----------|------------------------------|-------|-----------------------|----------------|---------------|----------|----------|--------|-----------------------|----------------------|----------------------|----------------------|
|              |           |                              |       | Clear Seat Width      | Overall Height | Overall Depth | Type     | Quantity |        | Downward              |                      |                      | Uplift               |
|              |           |                              |       |                       |                |               |          | Joist    | Header | C <sub>D</sub> =1.00  | C <sub>D</sub> =1.15 | C <sub>D</sub> =1.25 | C <sub>D</sub> =1.60 |
| CDMDS26      | Standard  | 1.5                          | 18    | 1-5/8                 | 5-11/64        | 3-5/32        | 16d Comm | 6        | 14     | 3045                  | 3350                 | 3350                 | 1715                 |
| CDMDS28      | Standard  | 1.5                          | 18    | 1-5/8                 | 6-15/16        | 3-5/32        | 16d Comm | 8        | 22     | 4210                  | 4520                 | 4725                 | 2730                 |
| CDMDS210     | Standard  | 1.5                          | 18    | 1-5/8                 | 8-13/16        | 3-5/32        | 16d Comm | 10       | 30     | 4725                  | 5110                 | 5365                 | 3890                 |
| CDMDS1.81/10 | Standard  | 1.75                         | 18    | 1-13/16               | 8-13/16        | 3-5/32        | 16d Comm | 10       | 30     | 5085                  | 5470                 | 5725                 | 3890                 |
| CDMDS26-2    | Standard  | 3                            | 16    | 3-1/4                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 3080                  | 3540                 | 3850                 | 1700                 |
| CDMDS28-2    | Standard  | 3                            | 16    | 3-1/4                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4620                  | 5310                 | 5775                 | 2730                 |
| CDMDS210-2   | Standard  | 3                            | 16    | 3-1/4                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 6160                  | 7080                 | 7525                 | 4065                 |
| CDMDS46      | Standard  | 3.5                          | 16    | 3-5/8                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 3080                  | 3540                 | 3850                 | 1700                 |
| CDMDS48      | Standard  | 3.5                          | 16    | 3-5/8                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4620                  | 5310                 | 5775                 | 2730                 |
| CDMDS410     | Standard  | 3.5                          | 16    | 3-5/8                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 6160                  | 7080                 | 7700                 | 4065                 |
| CDMDS26-3    | Standard  | 4.5                          | 16    | 4-7/8                 | 5-3/16         | 3-3/16        | 16d Comm | 6        | 14     | 3080                  | 3540                 | 3850                 | 1700                 |
| CDMDS28-3    | Standard  | 4.5                          | 16    | 4-7/8                 | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4620                  | 5310                 | 5775                 | 2730                 |
| CDMDS210-3   | Standard  | 4.5                          | 16    | 4-7/8                 | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 6160                  | 7080                 | 7700                 | 4065                 |
| CDMDS28-4    | Standard  | 6                            | 16    | 6-9/16                | 6-7/8          | 3-3/16        | 16d Comm | 8        | 22     | 4620                  | 5310                 | 5775                 | 2730                 |
| CDMDS210-4   | Standard  | 6                            | 16    | 6-9/16                | 8-13/16        | 3-3/16        | 16d Comm | 10       | 30     | 6160                  | 7080                 | 7700                 | 4065                 |

**Notes:**

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 See images for hanger dimension definitions of W, H, and D.

2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.

3 The tabulated allowable loads have been adjusted for the load duration factors, C<sub>D</sub>, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.

4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F<sub>c</sub>-perp, respectively for the wood species noted in the table.

5 The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.

6 CDMDS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).