

Double Shear Face-Mount Hangers

CDLDS

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

Product Data & Ordering Information:

Material	Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)
Coating	G90 (Z275) hot-dipped galvanized coating (G185 available)
Thickness	18ga (43mil), 0.0451" Design thickness, 0.0428" Minimum thickness

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

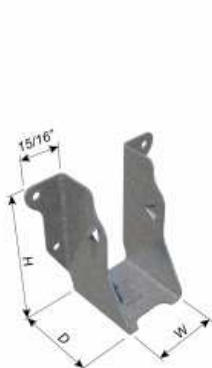
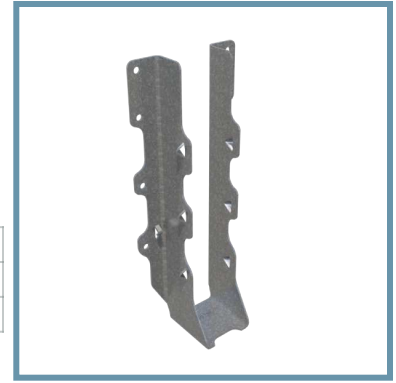
- [ASTM A653](#) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- [ASTM A1003](#) Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members
- [IBC 2021](#) International Building Code
- [IRC 2021](#) International Residential Code
- [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.

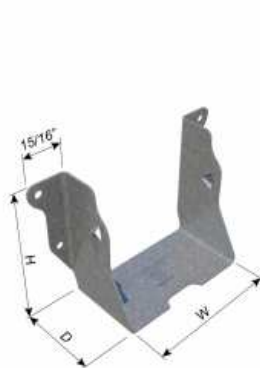
- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point)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

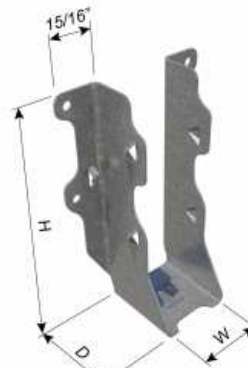
All stored materials shall be kept dry. Materials shall be stacked off the ground, supported on a level platform, and protected from the weather.



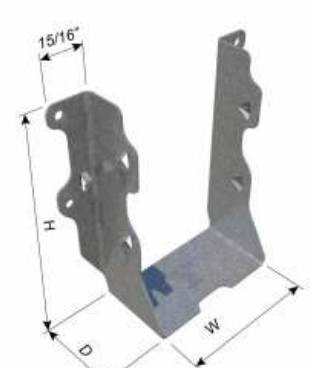
CDLDS24



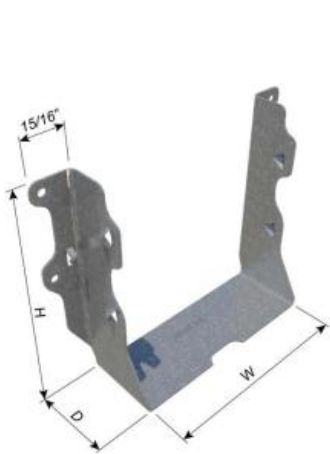
CDLDS24-2



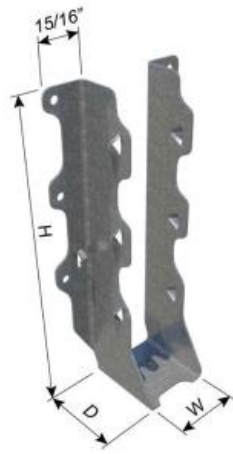
CDLDS26



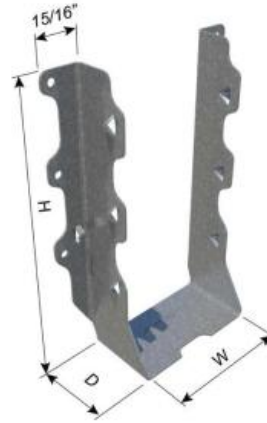
CDLDS26-2



CDLDS26-3



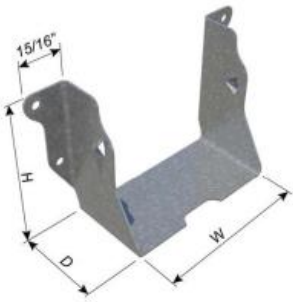
CDLDS28



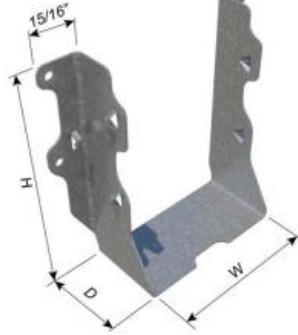
CDLDS28-2



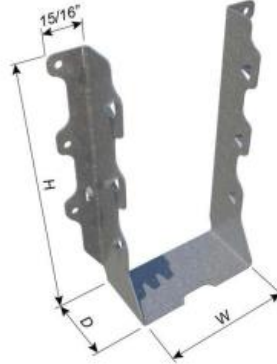
CDLDS28-3



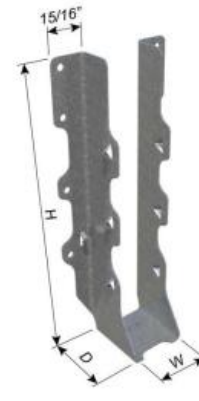
CDLDS44



CDLDS46



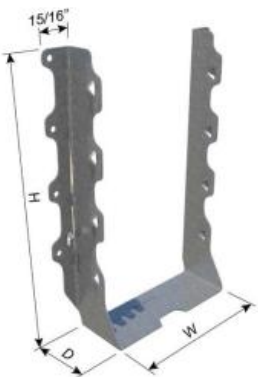
CDLDS48



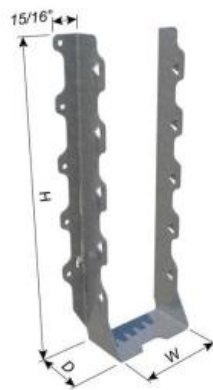
CDLDS210



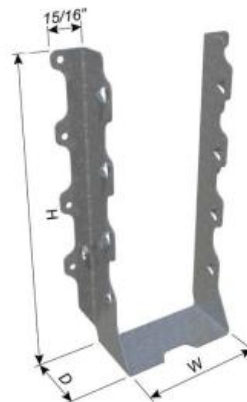
CDLDS210-2



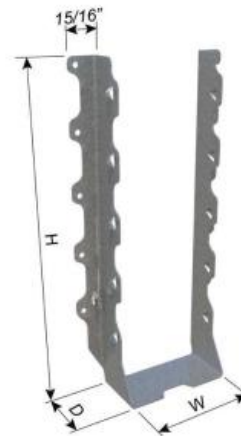
CDLDS210-3



CDLDS212-2



CDLDS410



CDLDS412

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 _D =1.00	C _D =1.15	C _D =1.25	C _D =1.60
CDLDS24	Standard	1.5	18	1-9/16	3-3/32	1-15/16	10d Comm	2	4	600	690	755	455
CDLDS26	Standard	1.5	18	1-9/16	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
CDLDS28	Standard	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	4	6	1005	1155	1255	800
	Enhanced	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	6	6	1205	1385	1505	1180
CDLDS210	Standard	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	4	8	1205	1385	1450	775
	Enhanced	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	6	8	1405	1615	1755	1055
CDLDS24-2	Standard	3	18	3-1/4	3-3/32	1-15/16	10d Comm	2	4	600	690	755	455
	Standard	3	18	3-1/4	3-3/32	1-15/16	16d Comm	2	4	720	825	855	455
CDLDS26-2	Standard	3	18	3-1/4	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
	Standard	3	18	3-1/4	5-1/32	1-15/16	16d Comm	4	4	960	1100	1195	885
CDLDS28-2	Standard	3	18	3-1/4	6-31/32	1-15/16	10d Comm	4	6	1005	1155	1255	800
	Standard	3	18	3-1/4	6-31/32	1-15/16	16d Comm	4	6	1195	1375	1495	1105
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	10d Comm	6	6	1205	1385	1505	1180
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	16d Comm	6	6	1435	1650	1740	1180
CDLDS210-2	Standard	3	18	3-1/4	8-7/8	1-15/16	16d Comm	6	8	1675	1840	1840	1325
	Enhanced	3	18	3-1/4	8-7/8	1-15/16	16d Comm	8	8	1915	2200	2355	2240
CDLDS212-2	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	6	10	1915	2205	2395	1240
	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	10	10	2395	2755	2990	2445
CDLDS44	Standard	3.5	18	3-9/16	3-3/32	1-15/16	10d Comm	2	4	600	690	755	455
	Standard	3.5	18	3-9/16	3-3/32	1-15/16	16d Comm	2	4	720	825	855	455
CDLDS46	Standard	3.5	18	3-9/16	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
	Standard	3.5	18	3-9/16	5-1/32	1-15/16	16d Comm	4	4	960	1100	1195	885
CDLDS48	Standard	3.5	18	3-9/16	6-15/16	1-15/16	10d Comm	4	6	1005	1155	1255	800
	Standard	3.5	18	3-9/16	6-15/16	1-15/16	16d Comm	4	6	1195	1375	1495	1105
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	10d Comm	6	6	1205	1385	1505	1180
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	16d Comm	6	6	1435	1650	1740	1180
CDLDS410	Standard	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	6	8	1675	1840	1840	1325
	Enhanced	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	8	8	1915	2200	2355	2240
CDLDS412	Standard	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	6	10	1915	2205	2395	1240
	Enhanced	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	10	10	2395	2755	2990	2445
CDLDS26-3	Standard	4.5	18	4-7/8	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
	Standard	4.5	18	4-7/8	5-1/32	1-15/16	16d Comm	4	4	960	1100	1195	885
CDLDS28-3	Standard	4.5	18	4-7/8	6-31/32	1-15/16	10d Comm	4	6	1005	1155	1255	800
	Standard	4.5	18	4-7/8	6-31/32	1-15/16	16d Comm	4	6	1195	1375	1495	1105
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	10d Comm	6	6	1205	1385	1505	1180
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	16d Comm	6	6	1435	1650	1740	1180
CDLDS210-3	Standard	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	6	8	1675	1840	1840	1325
	Enhanced	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	8	8	1915	2200	2355	2240

Refer to last page of CDLDS submittal for table notes.

Hangers
06.00.00 (Wood, Plastics and Composites)
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 _D =1.00	C _D =1.15	C _D =1.25	
CDLDS24	Standard	1.5	18	1-9/16	3-3/32	1-15/16	10d Comm	2	4	705	810	880	540
CDLDS26	Standard	1.5	18	1-9/16	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
CDLDS28	Standard	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	4	6	1175	1350	1465	950
	Enhanced	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	6	6	1410	1620	1760	1405
CDLDS210	Standard	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	4	8	1410	1620	1730	925
	Enhanced	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	6	8	1645	1890	2055	1260
CDLDS24-2	Standard	3	18	3-1/4	3-3/32	1-15/16	10d Comm	2	4	705	810	880	540
	Standard	3	18	3-1/4	3-3/32	1-15/16	16d Comm	2	4	840	965	1020	540
CDLDS26-2	Standard	3	18	3-1/4	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
	Standard	3	18	3-1/4	5-1/32	1-15/16	16d Comm	4	4	1120	1290	1400	1055
CDLDS28-2	Standard	3	18	3-1/4	6-31/32	1-15/16	10d Comm	4	6	1175	1350	1465	950
	Standard	3	18	3-1/4	6-31/32	1-15/16	16d Comm	4	6	1400	1610	1750	1315
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	10d Comm	6	6	1410	1620	1760	1405
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	16d Comm	6	6	1685	1935	2075	1405
CDLDS210-2	Standard	3	18	3-1/4	8-7/8	1-15/16	16d Comm	6	8	1960	2190	2190	1575
	Enhanced	3	18	3-1/4	8-7/8	1-15/16	16d Comm	8	8	2245	2580	2805	2665
CDLDS212-2	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	6	10	2240	2575	2800	1475
	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	10	10	2805	3225	3505	2910
CDLDS44	Standard	3.5	18	3-9/16	3-3/32	1-15/16	10d Comm	2	4	705	810	880	540
	Standard	3.5	18	3-9/16	3-3/32	1-15/16	16d Comm	2	4	840	965	1020	540
CDLDS46	Standard	3.5	18	3-9/16	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
	Standard	3.5	18	3-9/16	5-1/32	1-15/16	16d Comm	4	4	1120	1290	1400	1055
CDLDS48	Standard	3.5	18	3-9/16	6-15/16	1-15/16	10d Comm	4	6	1175	1350	1465	950
	Standard	3.5	18	3-9/16	6-15/16	1-15/16	16d Comm	4	6	1400	1610	1750	1315
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	10d Comm	6	6	1410	1620	1760	1405
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	16d Comm	6	6	1685	1935	2075	1405
CDLDS410	Standard	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	6	8	1960	2190	2190	1575
	Enhanced	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	8	8	2245	2580	2805	2665
CDLDS412	Standard	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	6	10	2240	2575	2800	1475
	Enhanced	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	10	10	2805	3225	3505	2910
CDLDS26-3	Standard	4.5	18	4-7/8	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
	Standard	4.5	18	4-7/8	5-1/32	1-15/16	16d Comm	4	4	1120	1290	1400	1055
CDLDS28-3	Standard	4.5	18	4-7/8	6-31/32	1-15/16	10d Comm	4	6	1175	1350	1465	950
	Standard	4.5	18	4-7/8	6-31/32	1-15/16	16d Comm	4	6	1400	1610	1750	1315
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	10d Comm	6	6	1410	1620	1760	1405
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	16d Comm	6	6	1685	1935	2075	1405
CDLDS210-3	Standard	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	6	8	1960	2190	2190	1575
	Enhanced	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	8	8	2245	2580	2805	2665

Refer to last page of CDLDS submittal for table notes.

Hangers 06.00.00 (Wood, Plastics and Composites)
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 _D =1.00	C _D =1.15	C _D =1.25	
CDLDS24	Standard	1.5	18	1-9/16	3-3/32	1-15/16	10d Comm	2	4	765	880	955	595
CDLDS26	Standard	1.5	18	1-9/16	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
CDLDS28	Standard	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	4	6	1275	1470	1595	1045
	Enhanced	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	6	6	1535	1765	1915	1545
CDLDS210	Standard	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	4	8	1530	1760	1900	1015
	Enhanced	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	6	8	1785	2055	2235	1385
CDLDS24-2	Standard	3	18	3-1/4	3-3/32	1-15/16	10d Comm	2	4	765	880	955	595
	Standard	3	18	3-1/4	3-3/32	1-15/16	16d Comm	2	4	915	1050	1125	595
CDLDS26-2	Standard	3	18	3-1/4	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
	Standard	3	18	3-1/4	5-1/32	1-15/16	16d Comm	4	4	1220	1405	1525	1160
CDLDS28-2	Standard	3	18	3-1/4	6-31/32	1-15/16	10d Comm	4	6	1275	1470	1595	1045
	Standard	3	18	3-1/4	6-31/32	1-15/16	16d Comm	4	6	1525	1755	1905	1640
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	10d Comm	6	6	1535	1765	1915	1545
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	16d Comm	6	6	1830	2105	2280	1545
CDLDS210-2	Standard	3	18	3-1/4	8-7/8	1-15/16	16d Comm	6	8	2135	2410	2410	1730
	Enhanced	3	18	3-1/4	8-7/8	1-15/16	16d Comm	8	8	2445	2810	3055	2935
CDLDS212-2	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	6	10	2440	2805	3045	1625
	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	10	10	3055	3510	3815	3200
CDLDS44	Standard	3.5	18	3-9/16	3-3/32	1-15/16	10d Comm	2	4	765	880	955	595
	Standard	3.5	18	3-9/16	3-3/32	1-15/16	16d Comm	2	4	915	1050	1125	595
CDLDS46	Standard	3.5	18	3-9/16	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
	Standard	3.5	18	3-9/16	5-1/32	1-15/16	16d Comm	4	4	1220	1405	1525	1160
CDLDS48	Standard	3.5	18	3-9/16	6-15/16	1-15/16	10d Comm	4	6	1275	1470	1595	1045
	Standard	3.5	18	3-9/16	6-15/16	1-15/16	16d Comm	4	6	1525	1755	1905	1045
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	10d Comm	6	6	1535	1765	1915	1545
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	16d Comm	6	6	1830	2105	2280	1545
CDLDS410	Standard	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	6	8	2135	2410	2410	1730
	Enhanced	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	8	8	2445	2810	3055	2935
CDLDS412	Standard	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	6	10	2440	2805	3045	1625
	Enhanced	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	10	10	3055	3510	3815	3200
CDLDS26-3	Standard	4.5	18	4-7/8	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
	Standard	4.5	18	4-7/8	5-1/32	1-15/16	16d Comm	4	4	1220	1405	1525	1160
CDLDS28-3	Standard	4.5	18	4-7/8	6-31/32	1-15/16	10d Comm	4	6	1275	1470	1595	1045
	Standard	4.5	18	4-7/8	6-31/32	1-15/16	16d Comm	4	6	1525	1755	1905	1045
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	10d Comm	6	6	1535	1765	1915	1545
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	16d Comm	6	6	1830	2105	2280	1545
CDLDS210-3	Standard	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	6	8	2135	2410	2410	1730
	Enhanced	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	8	8	2445	2810	3055	2935

Refer to last page of CDLDS submittal for table notes.

Double Shear Face-Mount Hangers

CDLDS

Table 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, CD, 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_c -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 CDLDS 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).