

**HDU** *Holdown*



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The HDU series of holdowns combine the advantages of low deflection and high capacity from the pre-deflected geometry with the ease of installation of Simpson Strong-Tie® patented SDS screws.

**HDU SPECIAL FEATURES:**

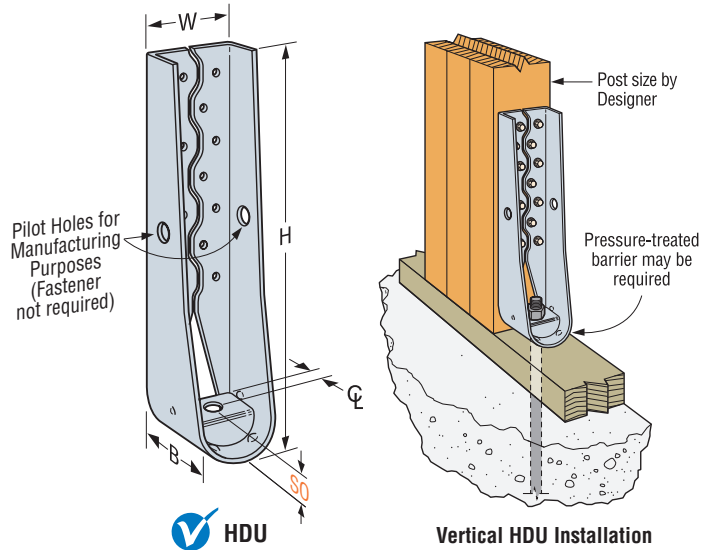
- Pre-deflected body virtually eliminates deflection due to material stretch.
- Uses SDS screws which install easily, reduce fastener slip, and provide a greater net section area of the post compared to bolts.
- SDS ¼"x2½" screws are supplied with the holdowns. (*Lag screws will not achieve the same load.*) This ensures the proper fasteners are used and is convenient for the installer.
- No stud bolts to countersink at openings.

**MATERIAL:** See table

**FINISH:** Galvanized

**INSTALLATION:** • Use all specified fasteners. See General Notes.

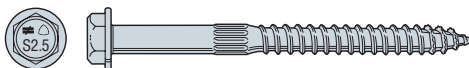
- Place the HDU over the anchor bolt.
- No additional washer required.
- To tie multiple 2x members together, the Designer must determine the fasteners required to join the members to act as one unit without splitting the wood. See page 15 for SDS values.
- See SSTB Anchor Bolts on pages 20-21 for anchorage options.
- **SDS screws install best with a low speed high torque drill with a ⅝" hex head driver.**
- Refer to technical bulletin T-ANCHORSPEC for post-installed anchorage solutions.



For holdowns, per ASTM test standards, anchor bolt nut should be finger-tight plus ⅓ to ½ turn with a hand wrench, with consideration given to possible future wood shrinkage. Care should be taken to not over-torque the nut. Impact wrenches should not be used.

Model No.	Ga	Dimensions (in.)					Fasteners		Factored Tensile Resistance (K <sub>D</sub> =1.15)	
		W	H	B	C	SO	Anchor Bolt Dia. (in.)	SDS Screws	D.Fir-L	S-P-F
									lbs	lbs
HDU2-SDS2.5	14	3	8 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	⅝	6-SDS ¼"x2½"	3210	2815
HDU4-SDS2.5	14	3	10 <sup>15</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	⅝	10-SDS ¼"x2½"	14.30	12.54
HDU5-SDS2.5	14	3	13 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	⅝	14-SDS ¼"x2½"	5350	4690
HDU8-SDS2.5	10	3	16 <sup>5</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	⅞	20-SDS ¼"x2½"	23.83	20.89
HDU11-SDS2.5	10	3	22 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1	30-SDS ¼"x2½"	6675	5855
<b>NEW</b> HDU14-SDS2.5	7	3	25 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	1	36-SDS ¼"x2½"	10785	9500
									48.04	42.32
									14075	12470
									62.69	55.55
									16445	14590
									73.25	64.99

1. Factored resistances have been increased 15% for short term loading with no further increase allowed. Reduce where other load durations govern.
2. The Designer must specify anchor bolt type, length and embedment.
3. When using structural composite lumber columns, screws must be applied to the wide face of the column.
4. Post design shall be by Designer.
5. **Tabulated values may be doubled when the HDU is installed on opposite sides of the wood member provided either the post is large enough to prevent opposing holdown screw interference or the holdowns are offset to eliminate screw interferences.**
6. **HDU14 requires heavy hex anchor nut to achieve tabulated values.**
7. **Post design by Designer. Factored resistances are based on a minimum wood member thickness in the direction of the fastener penetration. Posts may consist of multiple 2x members provided they are designed to act as one unit independently of the holdown fasteners. Holdowns shall be installed centered along the width of the attached post.**



**SDS ¼"x2½"**

(See page 15 for more information)