### HDU/DT

# Strong-Tie

## Holdowns



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.

HDU holdowns are predeflected during the manufacturing process, virtually eliminating deflection under load due to material stretch. They use Strong-Drive® SDS Heavy-Duty Connector screws which install easily, reduce fastener slip and provide a greater net section when compared to bolts.

The DTT tension ties are designed for lighter-duty holdown applications on single 2x posts. The DTT1Z is installed with nails or Strong-Drive SD Connector screws and the DTT2 installs easily with the Strong-Drive SDS Heavy-Duty Connector screws (included). The DTT1Z holdowns have been tested for use in designed shearwalls and prescriptive braced wall panels as well as prescriptive wood-deck applications (see pp. 314-315 for deck applications).

For more information on holdown options, contact Simpson Strong-Tie.

#### **HDU Features:**

- Uses Strong-Drive SDS Heavy-Duty Connector screws which install easily, reduce fastener slip and provide a greater net section area of the post compared to bolts
- Strong-Drive SDS Heavy-Duty Connector screws are supplied with the holdowns to ensure proper fasteners are used
- · No stud bolts to countersink at openings

Material: See table

Finish: HDU — galvanized; DTT1Z and DTT2Z — ZMAX® coating; DTT2SS - stainless steel

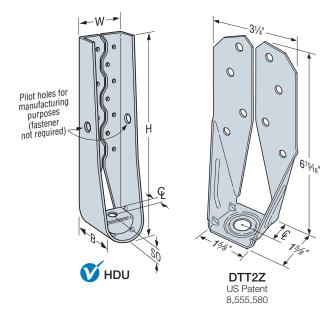
### Installation:

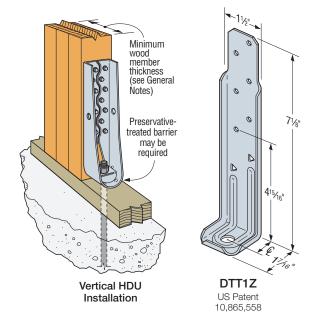
- See Holdown and Tension Tie General Notes on pp. 51-52.
- The HDU requires no additional washer; the DTT requires a standard-cut washer (included) be installed between the nut and the seat.
- Strong-Drive SDS Heavy-Duty Connector screws install best with a low-speed high-torque drill with a %" hex-head driver.
- · Fasteners and crescent washer are included with the holdowns. To order replacements, order part no. SDS25212-HDU\_. (Fill in the size needed, e.g., HDU2.)

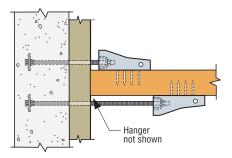
Codes: Codes: See p. 13 for Code Reference Key Chart

Web Applications: Visit app.strongtie.com/pfd to access our Post-to-Foundation Designer web application.









Horizontal HDU Offset Installation (plan view)

See Holdown and Tension Tie General Notes on pp 51-52.

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## SIMPSON Strong-Tie

## Holdowns (cont.)

These products are available with additional corrosion protection. For more information, see p. 16.

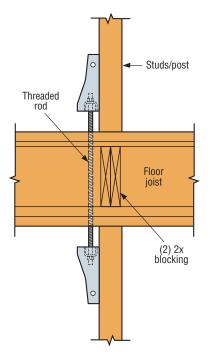
For stainless-steel fasteners, see p. 23.

Many of these products are approved for installation with Strong-Drive® SD Connector screws.

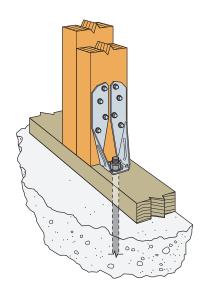
See pp. 362–366 for more information.

	Model			Dimensions (in.)					Fasteners (in.)		Allowable Tension Loads (160)			Code
	No.	Ga.	W	Н	В	CL	S0	Anchor Bolt Dia. (in.)	Wood Fasteners	Member Size (in.)	DF/SP	SPF/HF	Deflection at Allowable Load (in.)	Ref.
									(6) #9 x 11/2" SD		840	840	0.17	
	DTT1Z	14	1½	71/8	1 1/16	3/4	3/16	3/8	(6) 0.148 x 1½	1½ x <mark>3½</mark>	910	640	0.167	-
									(8) 0.148 x 1½		910	850	0.167	
SS	DTT2Z	14	31/4	615/16	1%	13/16	3/16	1/2	(8) 1/4 x 1 1/2 SDS	1½ x 3½	1,825	1,800	0.105	
00/									(8) 1/4 x 1 1/2 SDS	3 x 3½	2,145	1,835	0.128	
SS	DTT2Z-SDS2.5								(8) 1/4 x 21/2 SDS	3 x 3½	2,145	2,105	0.128	
	HDU2-SDS2.5	14	3	811/16	31/4	1 5/16	1%	5/8	(6) 1/4 x 21/2 SDS	3 x 3½	3,075	2,215	0.088	IBC®,
	HDU4-SDS2.5	14	3	1015/16	31/4	1 5/16	1%	5/8	(10) 1/4 x 21/2 SDS	3 x 3½	4,565	3,285	0.114	FL, LA
	HDU5-SDS2.5	14	3	133/16	31/4	1 5/16	1%	5/8	(14) 1/4 x 21/2 SDS	3 x 3½	5,645	4,340	0.115	
	HDU8-SDS2.5	10	3	16%	3½	13/8	1½	7/8	(20) ¼ x 2½ SDS	3 x 3½	6,765	5,820	0.11	-
										3½ x 3½	6,970	5,995	0.116	
										3½ x 4½	7,870	6,580	0.113	
	HDU11-SDS2.5	10	3	221/4	3½	1%	1½	1	(30) 1/4 x 21/2 SDS	3½ x 5½	9,535	8,030	0.137	
										3½ x 7¼	11,175	9,610	0.137	
	HDU14-SDS2.5	7	3	2511/16	3½	1%6	1%6	1	(36) ¼ x 2½ SDS	3½ x 5½	10,770	9,260	0.122	_
										3½ x 7¼	14,390	12,375	0.177	IBC, FL, LA
										5½ x 5½	14,445	12,425	0.172	

- 1. HDU14 requires heavy-hex anchor nut to achieve tabulated loads (supplied with holdown).
- $2.\, \text{HDU14 loads on } 4\text{x6 post are applicable to installation on either the narrow or the wide face of the post.}$
- 3. Fasteners: Nail dimensions are listed diameter by length. SD and SDS screws are Simpson Strong-Tie Strong-Drive SD Connector and SDS Heavy-Duty Connector screws. See pp. 23–24 for fastener information.



Typical HDU Tie Between Floors



Typical DTT2Z Installation