

The HTT is a single-piece formed tension tie — no rivets, and a four-ply formed seat. No washers are required.

S/DTT2Z tension tie is suitable for lighter-duty holdown applications on single or back-to-back studs, and installed easily with #14 self-drilling screws.

The HTT, S/DTT and S/LTT tension ties are ideal for retrofit or new construction projects. They provide high-strength, post-pour, concrete-to-steel connections

Material: HTT — 111 mil (11 ga.) DTT1Z, S/DTT2Z — 68 mil (14 ga.) S/LTT20 — Strap: 97 mil (12 ga.);

Plate: 229 mil (3 ga.)

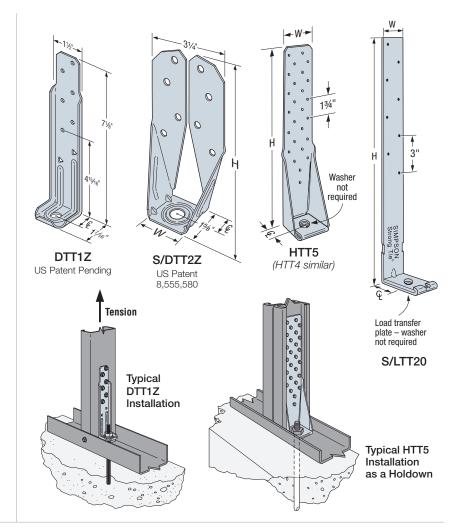
Finish: HTT, S/LTT — Galvanized (G90); DTT1Z, S/DTT2Z — ZMAX® coating

Installation:

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- Use all specified fasteners.
- Use the specified number of type of screws to attach the strap portion to the steel stud. Bolt the base to the wall or foundation with a suitable anchor; see table for the required bolt diameter.
- S/DTT2Z requires a standard cut washer (included) be installed between the nut and the seat.
- Do not install S/LTT20 raised off of the bottom track.
- See SB and SSTB Anchor Bolts on p. 183 for anchorage options.
- See SET-3G[™] and AT-XP[®] adhesive products at strongtie.com for anchor bolt retrofit options.

Codes: See p. 13 for Code Reference Key Chart



These products are available with additional corrosion protection. Additional products on this page may also be available with this option. Check with Simpson Strong-Tie for details.

	Model	Dimensions (in.)			Fasteners		Stud	ASD		LRFD		Nominal	
		W	Н	ę	Anchor Bolt Diameter ¹ (in.)	Stud Fasteners ⁵	Member Thickness mil (ga.)	Tension Load (lb.)	Deflection at ASD Load ³ (in.)	Tension Load (lb.)	Deflection at LRFD Load ³ (in.)	Tension Load ⁴ (lb.)	Code Ref.
	DTT1Z	1 1/2	71/8	3/4	3/8	(6) #10	33 (20)	905	0.156	1,270	0.250	3,485	_
	S/LTT20	2	20	1½	1/2	(8) #10	33 (20)	1,200	0.125	1,890	0.250	4,625	IBC, FL, LA
	S/DTT2Z	1%	615/16	13/16	1/2	(8) #14	33 (20)	1,570	0.138	2,200	0.250	4,265	
							43 (18)	1,685	0.151	2,355	0.250	5,570	
							2-33 (2-20)	1,735	0.153	2,430	0.250	5,735	
	HTT4	2½	12%	1%	5/8	(18) #10	33 (20)	3,180	0.104	4,770	0.187	8,215	
							2-33 (2-20)	4,395	0.125	6,675	0.250	11,835	
	HTT5	2½	16	1%	5/8	(26) #10	43 (18)	4,150	0.125	6,425	0.250	11,585	
							2-43 (2-18)	4,670	0.125	6,970	0.250	12,195	
							1-54 (1-16)	4,150	0.125	6,425	0.250	12,365	

- 1. The designer shall specify the foundation anchor material type, embedment and configuration.
- 2. Stud design by specifier. Tabulated loads are based on a minimum stud thickness for fastener connection.
- 3. Deflection at ASD or LRFD includes fastener slip, holdown deformation and anchor rod elongation for holdowns installed up to 4" above top of concrete. Holdowns may be installed raised, up to 18" above top of concrete, with no load reduction provided that additional elongation of the anchor rod is accounted for. See bottom of p. 191 for installation detail.
- 4. The Nominal Tension Load is based on the tested average ultimate (peak) load and is provided for design in accordance with section C5 of AISI S213 that requires a tension tie to have a nominal strength to resist the lesser of the amplified seismic load or the maximum force the system can deliver.
- 5. It is acceptable to use the capacity listed for the thickest single member or back-to-back members for thicker stud members in the same configuration. Stud design by specifier.
- 6. See the current Fastening Systems catalog at **strongtie.com** for more information on Simpson Strong-Tie fasteners.