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> Holdowns and Tension Ties for Cold-Formed Steel Construction
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S/LTT, S/DTT and HTT Tension Ties



The HTT is a single-piece formed tension tie – no rivets, and a 4-ply formed seat. No washers are required.

S/DTT2Z tension tie is suitable for lighter-duty hold-down 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.); S/DTT2Z – 68 mil (14 ga.); S/LTT20B – strap: 97 mil (12 ga.), plate: 229 mil (3 ga.)

Finish

- HTT, S/LTT – galvanized; S/DTT2Z – ZMAX[®] coating

Installation

- 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/LTT20B raised off of the bottom track.
- See SB and SSTB Anchor Bolts for anchorage options.
- See SET-XP® and AT-XP® adhesive products for anchor bolt retrofit options.

Related Links

- [Cold-Formed Steel Connectors Technical and Installation Notes \(/products/connectors/cold-formed-steel-connectors/technical-notes\)](/products/connectors/cold-formed-steel-connectors/technical-notes)
- [General Notes \(/products/connectors/cold-formed-steel-connectors/technical-notes/general-notes\)](/products/connectors/cold-formed-steel-connectors/technical-notes/general-notes)

Related Literature



Cold-Formed Steel Connectors Catalog

C-CFS-15

Product information, specifications, load tables and installation illustrations for our cold-formed steel connectors and clips for commercial curtain-wall, mid-rise and residential construction.

CATALOG

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Wood Construction Connectors Catalog

C-C-2017

Complete product and application information, as well as load tables and installation information, for more than 3,000 wood-to-wood, wood-to-concrete and wood-to-masonry connectors.

CATALOG

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Conectores Metálicos Estructurales

2013-2015**C-2013SP**

Información completa de productos, de la aplicación, de las tablas de cargas y de la instalación, para conectores Simpson Strong-Tie® de madera a madera, madera a concreto y concreto a mampostería.

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■ These products are available with [additional corrosion protection \(/products/categories/zmax.html\)](/products/categories/zmax.html). Additional products on this page may also be available with this option, [check with Simpson Strong-Tie \(/contact_us.asp\)](/contact_us.asp) for details.


Model	Dimensions (in.)			Fasteners		Stud Member Thickness mil (ga.)	ASD (lbs.)		LRFD (lbs.)		Nominal Tension Load ⁴ (lbs.)
	W	H	℄	Anchor Bolt Diameter ¹ (in.)	Stud Fasteners ⁵		Tension Load	Deflection at ASD Load ³	Tension Load	Deflection at LRFD Load ³	
S/LTT20	2	20	1½	½	8 - #10	33 (20 ga)	1200	0.125	1890	0.250	4625
S/DTT2Z	1½	6¼	¾	½	8 - #14	33 (20 ga)	1570	0.138	2200	0.250	4265
						43 (18 ga)	1685	0.151	2355	0.250	5570
HTT4	2½	12¾	1¾	¾	18 - #10	2-33 (2-20 ga)	1735	0.153	2430	0.250	5735
						33 (20 ga)	3180	0.104	4770	0.187	8215
HTT5	2½	16	1¾	¾	26 - #10	2-33 (2-20 ga)	4395	0.125	6675	0.250	11835
						43 (18 ga)	4240	0.125	6505	0.250	11585
						2-43 (2-18 ga)	4670	0.125	6970	0.250	12195
						1-54 (1-16 ga)	4150	0.125	6425	0.250	12365

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.
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. See more on [Simpson Strong-Tie fasteners. \(/fasteners\)](/fasteners)

Code Reports

Part	IAPMO UES ER	ICC-ES ESR	City of Los Angeles	
HTT4	ER-102 ER-130 ER-124		RR25818 RR25489	@;setTimeout(%22documer @;setTimeout(%22documer
HTT5	ER-102 ER-130 ER-124		RR25818 RR25489	@;setTimeout(%22documer @;setTimeout(%22documer
S/HTT				

S/HTT14	 ER-102 http://www.iapmoes.org/Documents/ER_0102.pdf  ER-124 http://www.iapmoes.org/Documents/ER_0124.pdf		 RR25489 /ftp/coderpts/rr25489.pdf	@;setTimeout(%22documer
S/LTT				
S/LTT20	 ER-102 http://www.iapmoes.org/Documents/ER_0102.pdf  ER-124 http://www.iapmoes.org/Documents/ER_0124.pdf		 RR25489 /ftp/coderpts/rr25489.pdf	@;setTimeout(%22documer

Drawings


Related Products



SB
Anchor Bolt



SSTB®
Anchor Bolt



SET-XP®
High-Strength Epoxy Adhesive



AT-XP®
High-Strength Acrylic Adhesive



Simpson Strong-Tie® AutoCA D®



S/HDS and S/HDB
Holdowns