### H/TSP



## Seismic and Hurricane Ties

Simpson Strong-Tie hurricane ties provide a positive connection between truss/rafter and the wall of the structure to resist wind and seismic forces.

#### Material: See table

Finish: Galvanized, H1.81Z, H7Z and H11Z – ZMAX<sup>®</sup> coating. Some models available in stainless steel or ZMAX; see Corrosion Information, pp. 12–15 or visit strongtie.com.

#### Installation:

- Use all specified fasteners; see General Notes.
- Hurricane ties can be installed with flanges facing inward or outward.

- H2.5T, H3 and H6 ties are shipped in equal quantities of right and left versions (right versions shown).
- Hurricane ties do not replace solid blocking.
- When installing ties on plated trusses (on the side opposite the truss plate) do not fasten through the truss plate from behind. This can force the truss plate off of the truss and compromise truss performance.
- H10A optional nailing to connect shear blocking, use 0.131" x 21/2" nails. Slots allow maximum field bending up to a pitch of 6:12, use H10A sloped loads for field-bent installation.

Codes: See p. 11 for Code Reference Key Chart



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### Seismic and Hurricane Ties (cont.)

These products are available with additional corrosion protection. For more information, see p. 14.

SS For stainless-steel fasteners, see p.21.

Many of these products are approved for installation SD with Strong-Drive® SD Connector screws. See pp. 348-352 for more information.

		Ga.	Fasteners (in.)			DF/SP Allowable Loads			Uplift with	SPF/HF Allowable Loads			Uplift with	
	Model No.		То	То	То	Uplift (160)	Lateral (160)		0.131" x 11⁄2" Nails	Uplift	Lateral (160)		0.131" x 1½" Nails	Code Ref.
			Rafters/Truss	Plates	Studs		F <sub>1</sub>	F <sub>2</sub>	(160)	(160)	F <sub>1</sub>	F <sub>2</sub>	(160)	
	H1	18	(6) 0.131 x 1 ½	(4) 0.131 x 2½	—	480	510	190	455	425	440	165	370	IBC, FL, LA
	H1.81Z	18	(6) 0.131 x 1 ½	(4) 0.131 x 2½	_	540	440	170	460	465	380	130	395	—
	H2A	18	(5) 0.131 x 1½	(2) 0.131 x 1 ½	(5) 0.131 x 1 ½	525	130	55	—	495	130	55	—	IBC, FL, LA
SS	H2ASS	18	(5) 0.131 x 1½	(2) 0.131 x 1 ½	(5) 0.131 x 1 ½	400	130	55	400	345	130	55	345	_
	H2.5A	18	(5) 0.131 x 2½	(5) 0.131 x 21⁄2	—	700	110	110	625	615	110	110	540	IBC, FL, LA
SS	H2.5ASS	18	(5) 0.131 x 2½	(5) 0.131 x 2½	—	440	75	70	365	380	75	70	310	_
	H2.5T	18	(5) 0.131 x 2½	(5) 0.131 x 21⁄2	—	590	135	145	480	565	135	145	475	IBC, FL, LA
	H3	18	(4) 0.131 x 2½	(4) 0.131 x 2½	—	400	210	170	400	365	180	145	290	
SS	H3SS	18	(4) 0.131 x 2½	(4) 0.131 x 21⁄2		280	145	120	275	225	100	85	210	
	H6	16		(8) 0.131 x 21⁄2	(8) 0.131 x 2½	1,230				1,065	—			IBC, FL, LA
	H7Z	16	(4) 0.131 x 2½	(2) 0.131 x 1 ½	(8) 0.131 x 2½	830	410	_	—	715	355		—	
	H8	18	(5) 0.148 x 1 ½	(5) 0.148 x 1 ½		780	95	90	630	710	95	90	510	
SS	H8SS	18	(5) 0.148 x 1 ½	(5) 0.148 x 1 ½	_	610	90	120	440	370	90	55	335	
	H10A Field Bent	18	(9) 0.148 x 1½	(9) 0.148 x 1 ½	—	780	590	285	—	760	505	285	—	IBC, FL, LA
	H10A	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	1,040	565	285		1,015	485	285	_	
SS	H10ASS	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	—	970	565	170	—	835	485	170	—	
	H10AR	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½	_	1,050	490	285		905	420	285	—	
	H10S	18	(8) 0.131 x 1 ½	(8) 0.131 x 1 ½	(8) 0.131 x 2½	910	660	215	550	785	570	185	475	IBC ELLA
	H10A-2	18	(9) 0.148 x 1 ½	(9) 0.148 x 1 ½		1,080	680	260		930	585	225		100, 1 L, LA
	H11Z	18	(6) 0.162 x 2½	(6) 0.162 x 21⁄2	—	830	525	760	—	715	450	655	—	
	H14	18	(12) 0.131 x 1 ½	(13) 0.131 x 2½		1,275	725	285		1,050	480	245	—	- IBC, FL, LA
			(12) 0.131 x 1 ½	(15) 0.131 x 2½		1,340	670	230		1,050	480	245		
	TSP	16	(9) 0.148 x 1 ½	(6) 0.148 x 1 ½	—	755	310	190	—	650	265	160	—	
			(9) 0.148 x 1 ½	(6) 0.148 x 3	_	1,015	310	190	—	875	265	160	—	

1. See pp. 266–267 for Straps and Ties General Notes.

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2. Allowable loads are for one anchor. A minimum rafter thickness of 21/2" must be used when framing anchors are used on each side of the joist and on the same side of the plate (exception: connectors installed such that nails on opposite side don't interfere).

3. Allowable DF/SP uplift load for stud-to-bottom plate installation (see detail 12) is 390 lb. (H2.5A); 265 lb. (H2.5ASS); and 310 lb. (H8). For SPF/HF values, multiply these values by 0.86.

4. Allowable loads in the F1 direction are not intended to replace diaphragm boundary members and do not account for possible cross-grain bending of the truss or rafter members.

5. When cross-grain bending or cross-grain tension cannot be avoided in the members, mechanical reinforcement to resist such forces shall be considered by the designer.

6. Hurricane ties are shown installed on the outside of the wall for clarity and assume a minimum overhang of 31/2". Installation on the inside of the wall is acceptable. For uplift Continuous Load Path, connections in the same area (i.e., truss-to-plate connector and plate-to-stud connector) must be on same side of the wall.

7. Southern pine allowable uplift loads for H10A = 1,105 lb. (160), H2.5A with 0.131" x 1½" nails = 635 lb. (160) and H2.5A with 0.131" x 21/2" nails = 730 lb. (160)

8. Refer to Simpson Strong-Tie® technical bulletin T-C-HTIEBEAR at strongtie.com for allowable bearing enhancement loads.

9. H10S can have the stud offset a maximum of 1" from the rafter (center to center) for a reduced uplift of 890 lb. (DF/SP) and 765 lb. (SPF).

10. H10S nails to plates are optional for uplift but required for lateral loads.

11. Some load values for the stainless-steel connectors shown here are lower than those for the carbon-steel versions.

Ongoing test programs have shown this also to be the case with other stainless-steel connectors in the product line that are installed with nails. Visit strongtie.com/corrosion for updated information.

12. The allowable loads of stainless-steel connectors match carbon-steel connectors when installed with stainless-steel Strong-Drive® SCNR Ring-Shank Connector nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.

13. Simpson Strong-Tie offers stainless-steel Strong-Drive SCNR Ring-Shank Connector nails. For bulk SCNR nails, see p. 345; for collated SCNR nails, see p. 346. For general fastener information, see pp. 21-22

14. Allowable DF/SP/SPF uplift load for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using five 0.131" x 11/2" nails in the top plates and three 0.131" x 1½" nails in the lowest three flange holes into the truss bottom chord is 260 lb. (160). 15. For TSP installed stud to single plate see pp. 280-281.

16. For simultaneous loads in more than one direction, the connector must be evaluated using either the Unity Equation or the 75% Rule. as described in Straps and Ties General Notes on p. 267

17. Fasteners: Nail dimensions are listed diameter by length. See pp. 21-22 for fastener information.

### H/TSP

## SIMPSON Strong-Tie

# Seismic and Hurricane Ties (cont.)



0.131" x 2½" nails to plates. Fill **one** of three holes to H14

bottom flange

H14 Installation to

**Double Top Plates** 

18

0.131" x 2½" nails to header. Fill all **three** triangle holes to straightened bottom flange.

H14 Installation

to Double 2x Header

19

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Straps and Ties