

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® coating. Some models available in stainless steel or ZMAX.

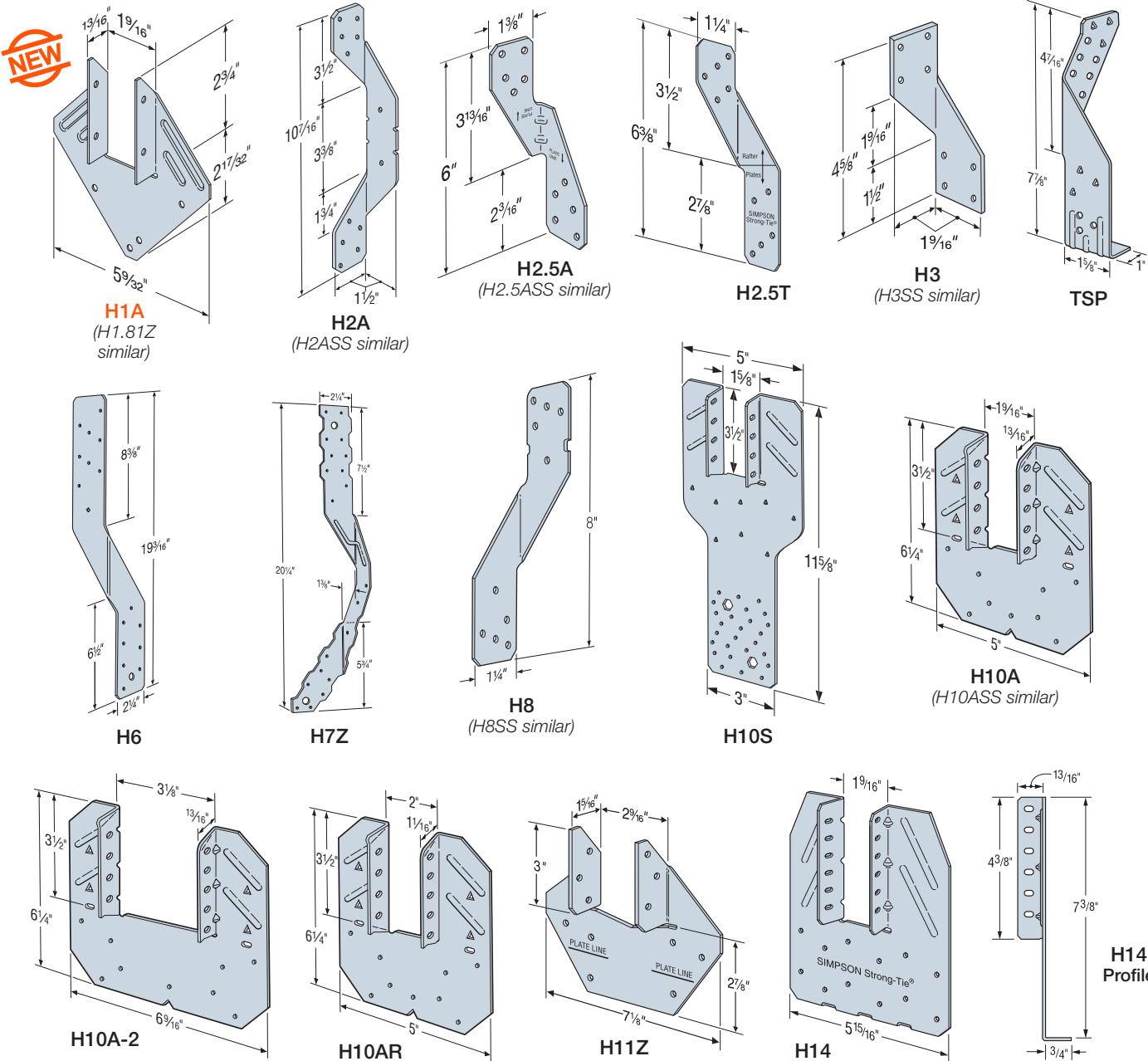
Installation:

- 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 2 1/2" nails. Slots allow maximum field bending up to a pitch of 6:12, use H10A sloped loads for field-bent installation.

Codes: See p. 13 for Code Reference Key Chart

Web Applications: Visit app.strongtie.com/rws to access our Roof-to-Wall Selector web application.



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Seismic and Hurricane Ties (cont.)

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

SS For stainless-steel fasteners, see p. 23.

SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 362–366 for more information.

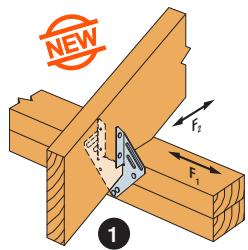
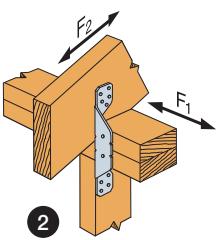
NEW

Model No.	Ga.	Fasteners (in.)			DF/SP Allowable Loads			Uplift with 0.131" x 1 1/2" Nails (160)	SPF/HF Allowable Loads			Uplift with 0.131" x 1 1/2" Nails (160)	Code Ref.			
		To Rafters/Truss	To Plates	To Studs	Uplift (160)	Lateral (160)			Uplift (160)	Lateral (160)						
						F ₁	F ₂			F ₁	F ₂					
H1A	18	(4) 0.131 x 1 1/2	(4) 0.131 x 1 1/2	—	545	420	265	—	470	360	205	—	IBC®, FL, LA			
H1.81Z	18	(6) 0.131 x 1 1/2	(4) 0.131 x 2 1/2	—	540	440	170	460	465	380	130	395	—			
H2A	18	(5) 0.131 x 1 1/2	(2) 0.131 x 1 1/2	(5) 0.131 x 1 1/2	525	130	55	—	495	130	55	—	IBC, FL, LA			
SS H2ASS	18	(5) 0.131 x 1 1/2	(2) 0.131 x 1 1/2	(5) 0.131 x 1 1/2	400	130	55	400	345	130	55	345	—			
H2.5A	18	(5) 0.131 x 2 1/2	(5) 0.131 x 2 1/2	—	700	110	110	625	615	110	110	540	IBC, FL, LA			
SS H2.5ASS	18	(5) 0.131 x 2 1/2	(5) 0.131 x 2 1/2	—	440	75	70	365	380	75	70	310	—			
H2.5T	18	(5) 0.131 x 2 1/2	(5) 0.131 x 2 1/2	—	590	135	145	480	565	135	145	475	IBC, FL, LA			
H3	18	(4) 0.131 x 2 1/2	(4) 0.131 x 2 1/2	—	400	210	170	400	365	180	145	290				
SS H3SS	18	(4) 0.131 x 2 1/2	(4) 0.131 x 2 1/2	—	280	145	120	275	225	100	85	210	—			
H6 (to Plates)	16	—	(8) 0.131 x 2 1/2	(8) 0.131 x 2 1/2	930	—	—	—	800	—	—	—	IBC, FL, LA			
H6 (to Rim)	16	(8) 0.131 x 2 1/2	—	(8) 0.131 x 2 1/2	1,230	—	—	—	1,065	—	—	—				
H7Z	16	(4) 0.131 x 2 1/2	(2) 0.131 x 1 1/2	(8) 0.131 x 2 1/2	830	410	—	—	715	355	—	—				
H8	18	(5) 0.148 x 1 1/2	(5) 0.148 x 1 1/2	—	780	95	90	630	710	95	90	510	—			
SS H8SS	18	(5) 0.148 x 1 1/2	(5) 0.148 x 1 1/2	—	610	90	120	440	370	90	55	335	—			
H10A Field Bent	18	(9) 0.148 x 1 1/2	(9) 0.148 x 1 1/2	—	780	565	285	—	760	485	285	—	IBC, FL, LA			
H10A	18	(9) 0.148 x 1 1/2	(9) 0.148 x 1 1/2	—	1,040	565	285	—	1,015	485	285	—				
SS H10ASS	18	(9) 0.148 x 1 1/2	(9) 0.148 x 1 1/2	—	970	565	170	—	835	485	170	—	—			
H10AR	18	(9) 0.148 x 1 1/2	(9) 0.148 x 1 1/2	—	1,050	490	285	—	905	420	285	—	—			
H10S	18	(8) 0.131 x 1 1/2	(8) 0.131 x 1 1/2	(8) 0.131 x 2 1/2	910	660	215	550	785	570	185	475	IBC, FL, LA			
H10A-2	18	(9) 0.148 x 1 1/2	(9) 0.148 x 1 1/2	—	1,080	680	260	—	930	585	225	—				
H11Z	18	(6) 0.162 x 2 1/2	(6) 0.162 x 2 1/2	—	830	525	760	—	715	450	655	—	—			
H14	18	(12) 0.131 x 1 1/2	(13) 0.131 x 2 1/2	—	1,275	725	285	—	1,050	480	245	—	IBC, FL, LA			
		(12) 0.131 x 1 1/2	(15) 0.131 x 2 1/2	—	1,340	670	230	—	1,050	480	245	—				
TSP	16	(9) 0.148 x 1 1/2	(6) 0.148 x 1 1/2	—	755	310	190	—	650	265	160	—	—			
		(9) 0.148 x 1 1/2	(6) 0.148 x 3	—	1,015	310	190	—	875	265	160	—				

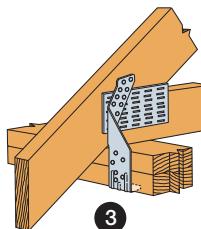
1. See pp. 276–277 for Straps and Ties General Notes.
2. Allowable loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are used on each side of the joist and on the same side of the plate (exception: connectors installed such that nails on opposite side don't 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. Southern pine allowable uplift loads for H10A = 1,105 lb. (160), H2.5A with 0.131" x 1 1/2" nails = 635 lb. (160) and H2.5A with 0.131" x 2 1/2" nails = 730 lb. (160).
7. 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).
8. H10S nails to plates are optional for uplift but required for lateral loads.
9. 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.
10. 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.
11. Simpson Strong-Tie offers stainless-steel Strong-Drive SCNR Ring-Shank Connector nails. For bulk SCNR nails, see p. 359; for collated SCNR nails, see p. 360. For general fastener information, see pp. 23–24.
12. 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 1 1/2" nails in the top plates and three 0.131" x 1 1/2" nails in the lowest three flange holes into the truss bottom chord is 260 lb. (160).
13. For TSP installed stud to single plate see pp. 291–293.
14. **Fasteners:** Nail dimensions are listed diameter by length. See pp. 23–24 for fastener information.
15. Using Strong-Drive SD Connector (SD9112) for 0.131" x 1 1/2" and 0.148" x 1 1/2", Strong-Drive SD Connector (SD9212) for 0.131" x 2 1/2" (and longer) and 0.148" x 2 1/2" (and longer), Strong-Drive SD Connector (SD10212) for 0.162" x 2 1/2" (and longer) will get the same load as nails.

H/TSP

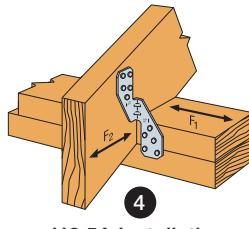
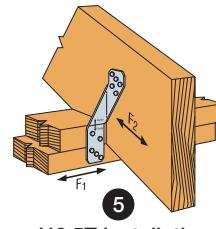
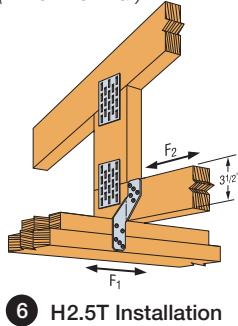
Seismic and Hurricane Ties (cont.)

H1A Installation
(H.181Z similar)

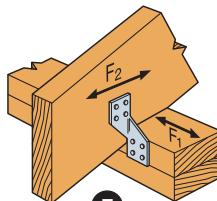
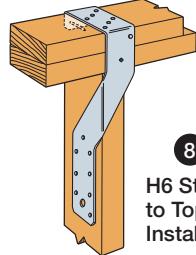
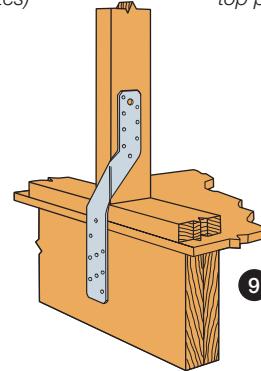
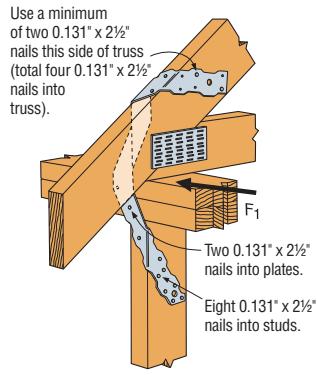
H2A Installation



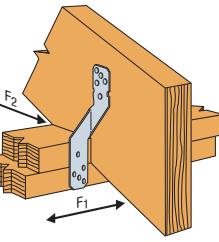
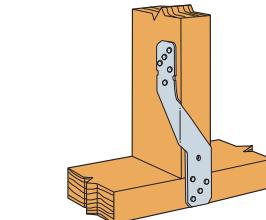
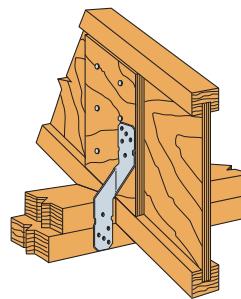
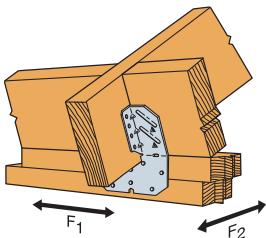
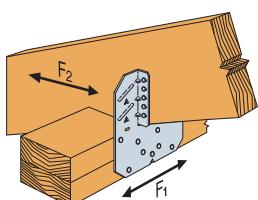
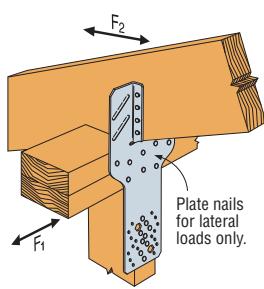
TSP Installation

H2.5A Installation
(nails into both
top plates)H2.5T Installation
(nails into both
top plates)

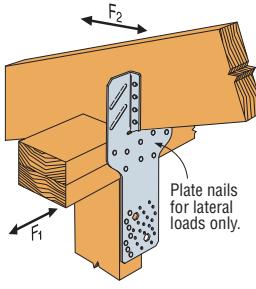
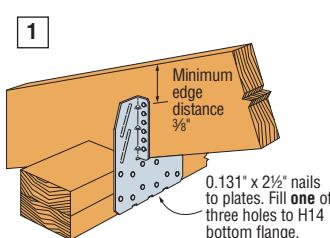
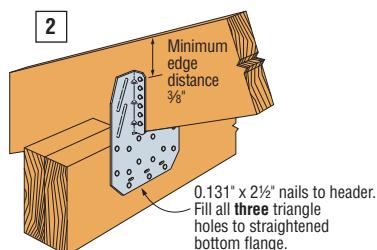
H2.5T Installation

H3 Installation
(nails into upper top plate)H6 Stud
to Top Plate
InstallationH6 Stud to
Rim Board
Installation

H7Z Installation

H8 Attaching
Rafter to Double
Top PlatesH8 attaching Stud to Sill
(4) 0.131" x 2 1/2" nails into plate,
(5) 0.131" x 2 1/2" nails into stud,
refer to footnote 3 for loadsH8 attaching I-Joist
to Double Top PlatesH10A Field-Bent
InstallationH10A
Installation

H10S Installation

H10S Installation
with Stud OffsetH14 Installation
to Double Top PlatesH14 Installation
to Double 2x Header

Visit app.strongtie.com/rws
to access our Roof-to-Wall
Selector web application.