

H/LTA2

Seismic and Hurricane Ties / Lateral Truss Anchor

The Hurricane Tie series features various configurations of wind and seismic ties for trusses and rafters.

The H10S provides a high-capacity connection from truss/rafter to wall. Also suitable for wood-to-wood applications (see pp. 270–271).

The HM9 is designed to retrofit roof truss/rafters for block construction. The HM9 hurricane tie provides high uplift and lateral capacity using Titen® 2 concrete and masonry screws.

The presloped 5/12 seat of the H16 provides for a tight fit and reduced deflection. The strap length provides for various truss heights up to a maximum of 13½". Minimum heel height for H16 series is 4".

The LTA2 is an embedded truss anchor for grout-filled CMU and concrete walls that develops high loads with shallow embedment. Designed for 2x4 minimum truss chords, the LTA2 resists uplift and lateral loads parallel and perpendicular to the wall with a minimum heel height requirement.

Material: H Ties — see table; LTA2 — 18 gauge

Finish: Galvanized; see Corrosion Information, pp. 13–15

Installation:

- Use all specified fasteners; see General Notes.

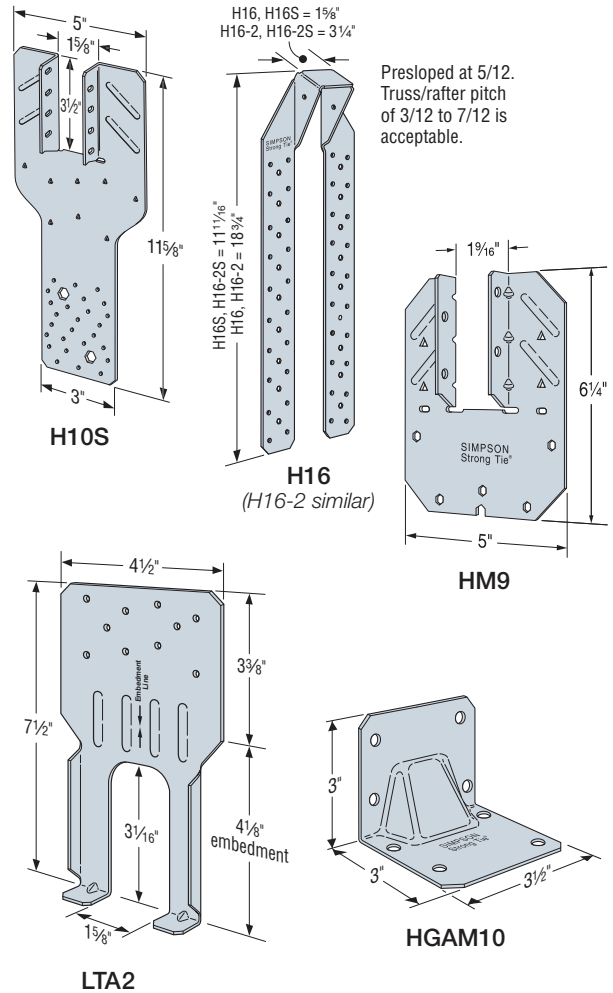
H Ties:

- Connectors attached using hex head Titen® 2 screws.
- Attach to grouted concrete block with a minimum one #5 rebar horizontal in the course.
- Hurricane ties do not replace solid blocking.

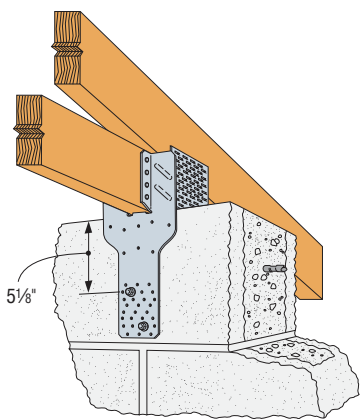
LTA2:

- Whether in grout-filled CMU or concrete, the LTA2 must be embedded to the depth of the embedment line stamped on the part.
- A minimum of one horizontal #5 rebar is required at top of concrete or in the top course of grout-filled CMU.
- For parallel-to-wall applications, install the LTA2 with flanges facing the center of the wall. Minimum edge distance of 1½" required.

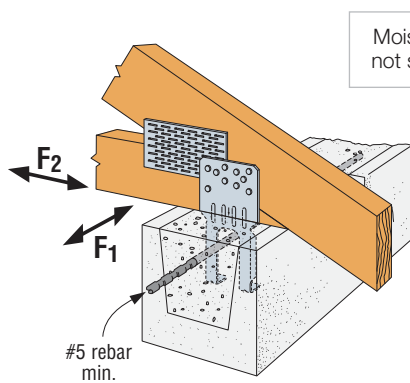
Codes: See p. 12 for Code Reference Key Chart



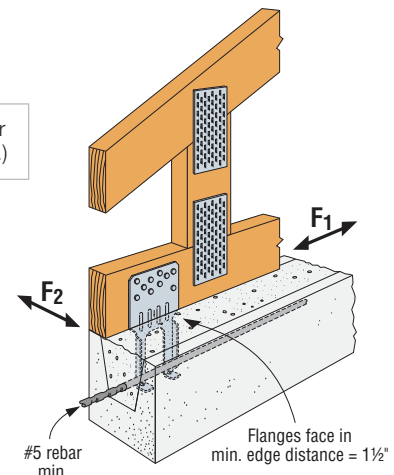
Masonry and Concrete Connectors



Typical H10S Installation



LTA2 Perpendicular-to-Wall Installation



LTA2 Parallel-to-Wall Installation

H/LTA2

Seismic and Hurricane Ties / Lateral Truss Anchor (cont.)

Model No.	Ga.	W (in.)	L (in.)	Fasteners (in.)			DF/SP Allowable Loads			SPF/HF Allowable Loads			Code Ref.
				To Rafter / Truss	To GFCMU	To Concrete	Uplift (160)	Lateral (160)		Uplift (160)	Lateral (160)		
								F ₁	F ₂		F ₁	F ₂	
HM9KT	18	1 1/16	6 1/4	(4) 1/4 x 1 1/2 SDS	(5) 1/4 x 2 1/4 Titen® 2	(5) 1/4 x 1 3/4 Titen® 2	760	670	190	760	670	190	FL
HGAM10KTA	14	—	—	(4) 1/4 x 1 1/2 SDS	(4) 1/4 x 2 3/4 Titen® 2	(4) 1/4 x 1 3/4 Titen® 2	810	875	1,105 ⁸	585	630	795 ⁸	FL
H10S	18	1 5/8	11 5/8	(8) 0.131 x 1 1/2	(2) 3/8 x 4 Titen HD®	(2) 3/8 x 4 Titen HD®	910	—	—	780	—	—	IBC, FL
LTA2 Perpendicular-to-Wall Installation	18	—	—	(10) 0.148 x 1 1/2	Embed	Embed	1,180 ⁹	415	875	990	415	735	FL
LTA2 Parallel-to-Wall Installation	18	—	—	(10) 0.148 x 1 1/2	Embed	Embed	1,180 ⁹	950	220	990	800	220	FL
H16	18	1 5/8	18 3/4	(2) 0.148 x 1 1/2	(6) 1/4 x 2 1/4 Titen® 2	(6) 1/4 x 1 3/4 Titen® 2	1,370	—	—	1,180	—	—	FL
H16S	18	1 5/8	11 1/16	(2) 0.148 x 1 1/2	(6) 1/4 x 2 1/4 Titen® 2	(6) 1/4 x 1 3/4 Titen® 2	1,370	—	—	1,180	—	—	FL
H16-2	18	3 1/4	18 3/4	(2) 0.148 x 1 1/2	(6) 1/4 x 2 1/4 Titen® 2	(6) 1/4 x 1 3/4 Titen® 2	1,370	—	—	1,180	—	—	FL
H16-2S	18	3 1/4	11 1/16	(2) 0.148 x 1 1/2	(6) 1/4 x 2 1/4 Titen® 2	(6) 1/4 x 1 3/4 Titen® 2	1,370	—	—	1,180	—	—	FL

1. Loads have been increased for wind or earthquake loading, with no further increase allowed. Reduce where other loads govern.
2. HGAM10KTA allowable loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. Grout-filled CMU (GFCMU) shall have a minimum compressive strength of $f'_m = 1,500$ psi.
5. The HM9KT and HGAM10KTA are kits with (20) HM9 and (10) HGAM10 connectors packaged with Strong-Drive® SDS Heavy-Duty Connector screws and 2 1/4" and 2 3/4" Titen® 2 screws, respectively. (1 3/4" Titen 2 screws for concrete installations sold separately.)
6. See p. 338 for Titen® 2 screw information.
7. Products shall be installed such that the Titen® 2 screws and Titen HD® screw anchors are not exposed to the weather.
8. HGAM10 F₂ loads are for forces into the connector. F₂ loads away from the connector are 640 lb. (DF/SP) and 460 lb. (SPF/HF).
9. LTA2 allowable uplift on SP is 1,350 lb. for perpendicular-to-wall installation and parallel-to-wall installation.

