H *Seismic & Hurricane Ties* / LTA1 *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 page 156)*.

The HM9 is designed to retrofit roof truss/rafters for block construction. The HM9 hurricane tie provides high uplift and lateral capacity using Simpson Strong-Tie® concrete fasteners.

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 LTA1 develops high uplift and lateral loads at a minimum heel height. The side tabs act as a locator in the block and the four embedded hooks allow for higher loads with a relatively shallow embedment.

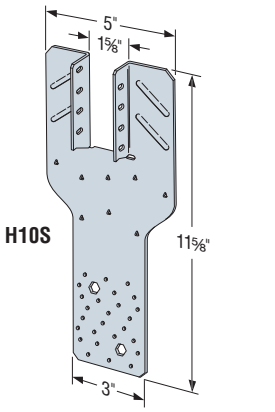
MATERIAL: See table.

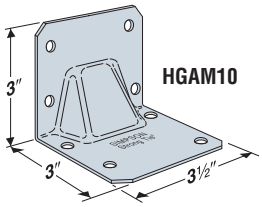
FINISH: Galvanized; see Corrosion Information, page 10-11.

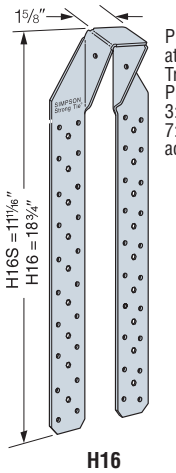
INSTALLATION: • Use all specified fasteners. See General Notes.

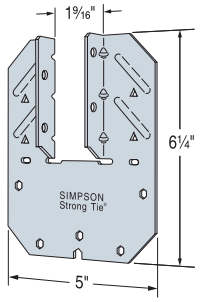
- Connectors attached using hex head Titen® screws.
- Attach to grouted concrete block with a minimum one #5 rebar horizontal in the course.
- Hurricane Ties do not replace solid blocking.

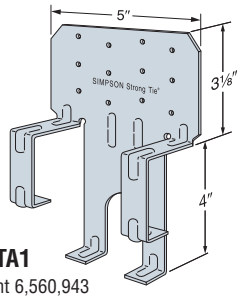
CODES: See page 12 for Code Reference Key Chart.





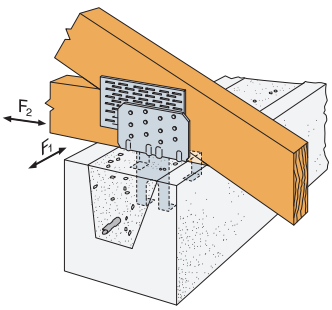




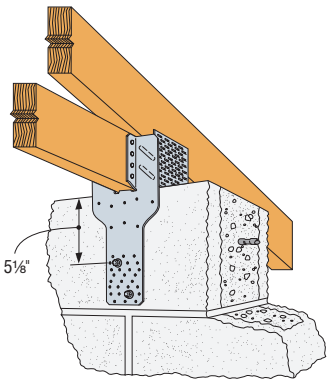


Model No.	Ga	W	L	Fasteners: To Rafters/ Truss	Fasteners: To CMU	Fasteners: To Concrete	DF/SP Allowable Loads[1,2]: Uplift[4] (160)	DF/SP Allowable Loads[1,2]: Lateral (160) F_1	DF/SP Allowable Loads[1,2]: Lateral (160) F_2	SPF/HF Allowable Loads[1,2]: Uplift[4] (160)	SPF/HF Allowable Loads[1,2]: Lateral (160) F_1	SPF/HF Allowable Loads[1,2]: Lateral (160) F_2	Code Ref.
HM9KT[3]	18	1⁹⁄₁₆	6¼	4-SDS¼x1½	5-¼x2¼ Titen	5-¼x1¾ Titen	595	425	200	595	425	200	F27
HGAM10KTA[3,4]	14	—	—	4-SDS¼x1½	4-¼x2¾ Titen	4-¼x1¾ Titen	850	1005	1105[8]	610	725	795[8]	
H10S	18	1⅝	11⅝	8-8dx1½	2-⅜x4 Titen HD	2-⅜x4 Titen HD	1065	—	—	915	—	—	IP1, F25
LTA1	18	—	—	12-10dx1½	Embed	Embed	1420	485	1425	1220	415	1225	
H16	18	1⅝	18¾	2-10dx1½	6-¼x2¼ Titen	6-¼x1¾ Titen	1470	—	—	1265	—	—	F26
H16S	18	1⅝	11¹¹⁄₁₆	2-10dx1½	6-¼x2¼ Titen	6-¼x1¾ Titen	1470	—	—	1265	—	—	
H16-2	18	3¼	18¾	2-10dx1½	6-¼x2¼ Titen	6-¼x1¾ Titen	1470	—	—	1265	—	—	
H16-2S	18	3¼	11¹¹⁄₁₆	2-10dx1½	6-¼x2¼ Titen	6-¼x1¾ Titen	1470	—	—	1265	—	—	

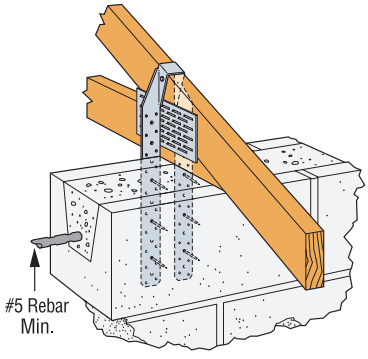
1. Loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
2. Allowable loads are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.
3. The HM9KT and HGAM10KTA are kits packaged with Simpson Strong-Tie® Strong-Drive® screws (SDS) and 2¼" and 2¾" Titen® screws respectively. *(1¾" Titen screws for concrete installations sold separately.)*
4. Minimum edge distance 1½" using Titen screws.
5. See page 139 for Titen screw information.
6. Table allowable loads were determined using test ultimate/3 or fastener calculation values.
7. Products shall be installed such that the Titen screws and Titen HD® anchors are not exposed to the weather.
8. HGAM10 F_2 loads are for forces into the connector. See illustration 2 for loads away from the connector.
9. **NAILS:** 10dx1½ = 0.148" dia. x 1½" long, 8dx1½ = 0.131" dia.x1½" long. See page 16-17 for other nail sizes and information.



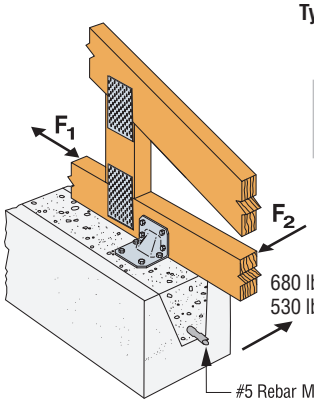
Typical LTA1 Installation



Typical H10S Installation

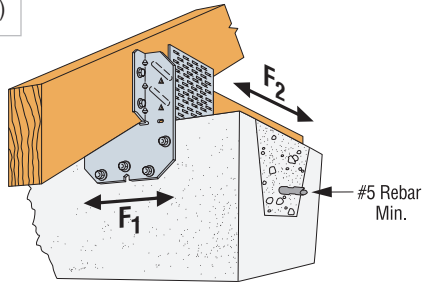


1 H16S Installed into Masonry



2 HGAM10 Installed into Masonry

Moisture barrier not shown (Typ.)



3 HM9 Attaching Truss to Masonry