

MBHA Masonry Hangers

The MBHA is a single piece, non-welded connector available for solid sawn, truss and engineered wood products.

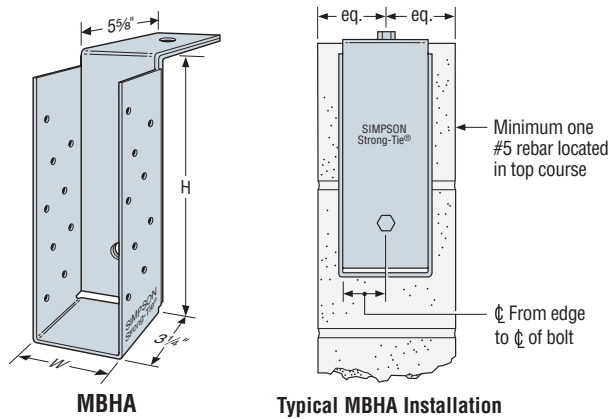
MATERIAL: 10 gauge

FINISH: Galvanized

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

OPTIONS: See Hanger Options, pages 200-202.

CODES: See page 20 for Code Reference Key Chart.



Model No.	C	Dimensions	
		W	H
MBHA3.12/9.25	1 1/16	3 3/8	9 1/4
MBHA3.12/11.25	1 1/16	3 3/8	11 1/4
MBHA3.56/7.25	1 3/4	3 3/16	7 1/4
MBHA3.56/9.25	1 3/4	3 3/16	9 1/4
MBHA3.56/11.25	1 3/4	3 3/16	11 1/4
MBHA3.56/11.88	1 3/4	3 3/16	11 7/8
MBHA3.56/14	1 3/4	3 3/16	14
MBHA3.56/16	1 3/4	3 3/16	16
MBHA3.56/18	1 3/4	3 3/16	18
MBHA5.50/7.25	2 3/4	5 1/2	7 1/4
MBHA5.50/9.25	2 3/4	5 1/2	9 1/4
MBHA5.50/11.25	2 3/4	5 1/2	11 1/4
MBHA5.50/11.88	2 3/4	5 1/2	11 7/8
MBHA5.50/14	2 3/4	5 1/2	14
MBHA5.50/16	2 3/4	5 1/2	16
MBHA5.50/18	2 3/4	5 1/2	18

Model No.	Fasteners ¹			Solid Concrete Allowable Loads DF/SP		Grouted CMU Allowable Loads DF/SP		Code Ref.
	Header		Joist	Uplift ⁷ (160)	Maximum Down Load	Uplift ⁷ (160)	Maximum Down Load	
	Top	Face						
MBHA	1-ATR ^{3/4}	1-ATR ^{3/4}	18-10d	3775	6050	3475	5330	I20, L16, F19
MBHA models with H = 7 1/4	1-ATR ^{3/4}	1-ATR ^{5/8}	18-10d	1885	4380	1885	4380	

1. ATR is all threaded rod.
2. Minimum concrete strength f_c shall be 2500 psi. CMU shall have a minimum grout strength of 2500 psi with standard ASTM C90 units and type N or S mortar.
3. Uplift loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
4. Loads are based on installation using Simpson Strong-Tie® ET Epoxy-Tie® adhesive 6 3/4" minimum embedment required. All thread rods to be 3/4" diameter, grade A307 or better. Refer to the Simpson Strong-Tie® Anchoring and Fastening

5. MBHA hangers with height of 7 1/4" require a 3 1/2" minimum embedment of the face bolt using ET Epoxy-Tie adhesive. All thread rods to be 3/4" diameter, grade A307 or better.
 6. Additional anchorage products to be designed by others.
 7. Uplift loads are for Southern Pine. For Doug Fir use 3515 lbs.
 8. Table allowable loads were determined using test ultimate/3 or fastener calculation values.
 9. **NAILS:** 10d = 0.148" dia. x 3" long.
- See page 24-25 for other nail sizes and information.

H Seismic & Hurricane Ties / **LTA2** 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 174).

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 13 1/2". Minimum heel height for H16 series is 4".

The new LTA2 is an embedded truss anchor for grouted 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.

FEATURES:

- Simplified design of the embedded portion allows for easy positioning close to rebar
- Ideal for anchoring trusses running perpendicular or parallel to the wall
- Embedment line stamped on part simplifies installation and helps avoid installation errors

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

FINISH: Galvanized; see Corrosion Information, page 18-19.

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

H Ties:

- Connectors attached using hex head Simpson Strong-Tie® Titen® 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 grouted 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 grouted CMU.
- For parallel-to-wall applications, install the LTA2 with flanges facing the center of the wall. Minimum edge distance of 1 1/2" required.

CODES: See page 20 for Code Reference Key Chart.

