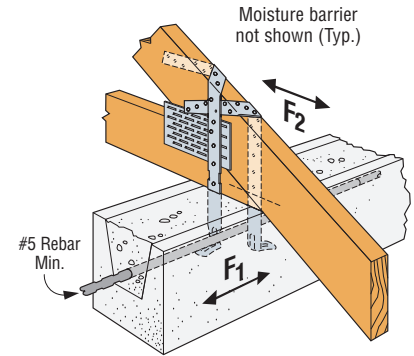


META/HETA/HHETA/HETAL/DETAL/TSS Embedded Truss Anchors and Truss Seat Snap-In

Double Embedded Anchor Installation

Model No.	Qty.	Application	SP Uplift Load Capacity (160)				Lateral Loads (160) ⁶		Code Ref.
			1 Ply		2 or 3 Ply		F ₁	F ₂	
			Fasteners ⁵	Load	Fasteners ⁵	Load			
DETAL20	1	CMU	18-10dx1½	2480	—	—	2000 ¹⁰	1370	F27
		Concrete	18-10dx1½	2480	—	—	2000	1505	
META	2	CMU	10-10dx1½	1985	14-16d	1900	1210 ⁷	1160	
		Concrete	10-10dx1½	1985	14-16d	2565	1210 ⁷	1160	
HETA	2	CMU	10-10dx1½	2035	12-16d	2500	1225 ⁷	1520	
		Concrete	10-10dx1½	2035	12-16d	2700	1225 ⁷	1520	
HHETA	2	CMU	10-10dx1½	2035	12-16d	2500	1225 ⁷	1520	
		Concrete	10-10dx1½	2035	14-16d ⁸	3350	1225 ⁷	1520	



Typical Installation with two METAs

1. Loads include a 60% load duration increase on the fasteners for wind or seismic loading.
2. Minimum $f_c = 2500$ psi. Minimum $f_m = 1500$ psi.
3. For simultaneous loads in more than one direction, the connector must be evaluated as described in Note e, page 14 under General Instructions for the Designer.
4. Install with spoons facing outward and straps spaced no more than 1/8" wider than the truss width.
5. The DETAL20 requires 6-10dx1½" nails in the truss seat and 6-10dx1½" nails into each strap. For all other models, install half of the required fasteners in each strap.
6. Lateral loads for META, HETA and HHETA anchors apply only to 2- or 3-ply applications with anchors spaced a minimum of 3" apart. For single-ply applications use lateral loads from the Single Embedded Anchor Installation table on page 144. DETAL lateral loads apply for single-ply application.
7. F₁ lateral loads listed may cause an additional 1/16" deflection beyond the standard 1/8" limit where the straps are installed not wrapped over the heel as shown.
8. Two HHETA anchors may be installed in a concrete tie beam on a 2- or 3-ply truss with 2 fewer nails for an allowable uplift load of 3050 lbs.
9. Noted F₁ lateral loads for the DETAL20 may cause an additional 1/32" deflection beyond the standard 1/8" limit.
10. Single-ply trusses may use either 10dx1½ or 16d nails with allowable loads limited to the single-ply column. 2- or 3-ply trusses shall use 16d nails.
11. NAILS: 16d = 0.162" dia. x 3½" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

MSTAM/MSTCM Straps Ties

MSTAM and MSTCM models are designed for wood to masonry applications.

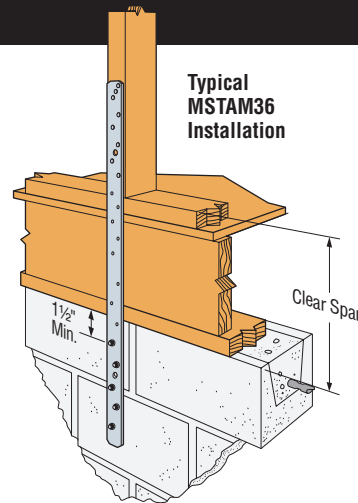
The MSTC series has countersunk nail slots for a lower nailing profile.

FINISH: Galvanized. Some products are available in stainless steel or ZMAX® coating; see Corrosion Information, page 10-11.

INSTALLATION:

- Use all specified fasteners. See General Notes.
- Attaches to grouted concrete block and wood framing.

CODES: See page 12 for Code Reference Key Chart.



Typical MSTAM36 Installation

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Masonry Application

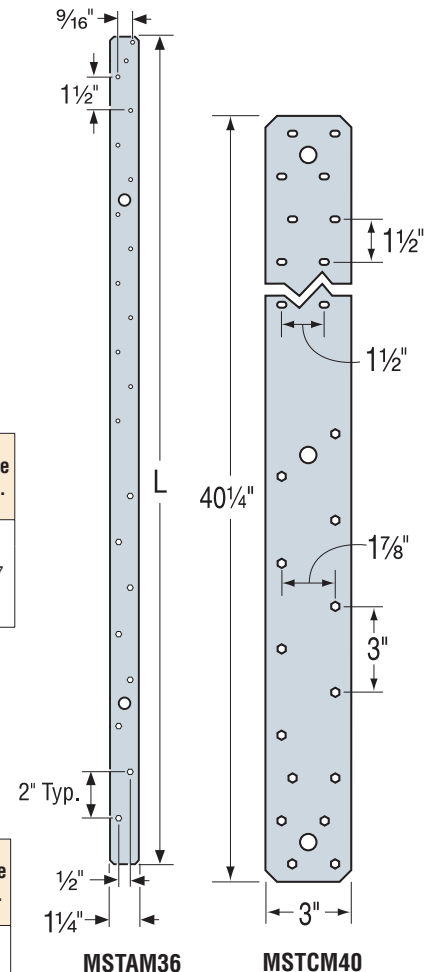
Model No.	Ga	Dimensions		Fasteners (Total)			Allowable Tension/Uplift Loads		Code Ref.
		W	L	Nails	CMU	Concrete	DF/SP (160)	SPF/HF (160)	
MSTAM24	18	1¼	24	9-10d	5-¼x2¼ Titen	5-¼x1¼ Titen	1500	1500	F27
MSTAM36	16	1¼	36	13-10d	8-¼x2¼ Titen	8-¼x1¼ Titen	1870	1870	
MSTCM40	16	3	40¼	26-16d sinkers	14-¼x2¼ Titen	14-¼x1¼ Titen	4220	4220	
MSTCM60	16	3	59½	26-16d sinkers	14-¼x2¼ Titen	14-¼x1¼ Titen	4220	4220	

1. Loads include a 60% load duration increase on the fasteners for wind or earthquake loading.
2. Minimum edge distance 1½" using Titen® screws.
3. Minimum $f_m = 1500$ psi and $f_c = 2500$ psi.
4. Products shall be installed such that the Titen screws are not exposed to the weather.
5. See page 139 for Titen screw information.
6. NAILS: 16d Sinker = 0.148" dia. x 3¼" long, 10d = 0.148" dia. x 3" long. See page 16-17 for other nail sizes and information.

Floor-to-Floor Clear Span Table

Model No.	Clear Span	Fasteners (Total)			Allowable Tension/Uplift Loads		Code Ref.
		Nails	CMU	Concrete	DF/SP (160)	SPF/HF (160)	
MSTAM36	16 or 18	7-10d	4-¼x2¼ Titen	4-¼x1¼ Titen	1400	1380	F27
MSTCM40	16 or 18	14-16d sinkers	10-¼x2¼ Titen	10-¼x1¼ Titen	2800	2420	
MSTCM60	22¼	26-16d sinkers	14-¼x2¼ Titen	14-¼x1¼ Titen	4220	4220	

See notes above.



Masonry Connectors