

META/HETA/HHETA Embedded Truss Anchors

The embedded truss anchor series provides an engineered method to properly attach roof trusses to concrete and masonry walls. Information regarding the use of two anchors on single- and multi-ply trusses is included below.

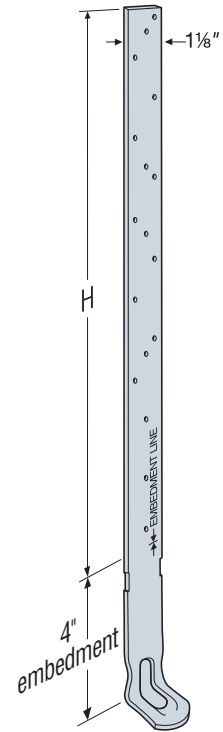
Material: HHETA — 14 gauge; HETA — 16 gauge; META — 18 gauge

Finish: Galvanized (G90). Some products available in ZMAX® coating; see Corrosion Information on pp. 19–23.

Installation:

- Use all specified fasteners; see General Notes.
- The META, HETA and HHETA are embedded 4" into a 6" minimum concrete beam or 8" nominal grouted block wall.
- For mislocated truss anchors which are greater than 1/8" but less than 1 1/2" from the face of the truss, a shim must be provided. Shim design by truss engineer. When gap is greater than 1 1/2", install retrofit anchors.
- In double embedded anchor installations, do not install fasteners where the straps overlap when wrapped over the truss heel.

Codes: See p. 13 for Code Reference Key Chart



HETA20
(META/HHETA similar)

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.

Single Embedded Anchor Installation

Model No.	H (in.)	Fastener ⁹	Allowable Uplift Load (lb.)			Lateral Load ⁸		Code Ref.
		Rafter/Stud/Truss Thickness	Rafter/Stud/Truss Thickness			F ₁	F ₂	
		33 mil, 43 mil and 54 mil (20 ga., 18 ga. and 16 ga.)	33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)	54 mil (16 ga.)		
META12	8	(7) #10	1,240	1,450	1,450	340	725	—
META16	12	(9) #10	1,450	1,450	1,450			
META18	14	(9) #10	1,450	1,450	1,450			
META20	16	(9) #10	1,450	1,450	1,450			
META22	18	(9) #10	1,450	1,450	1,450			
META24	20	(9) #10	1,450	1,450	1,450			
META40	36	(9) #10	1,450	1,450	1,450			
HETA12	8	(7) #10	1,240	1,780	1,780	340	725	
HETA16	12	(9) #10	1,595	1,810	1,810			
HETA20	16	(9) #10	1,595	1,810	1,810			
HETA24	20	(9) #10	1,595	1,810	1,810			
HETA40	36	(9) #10	1,595	1,810	1,810			
HHETA12	8	(7) #10	1,240	1,820	1,820	340 ⁵	815	
HHETA16	12	(10) #10	1,770	2,235	2,235			
HHETA20	16	(10) #10	1,770	2,235	2,235			
HHETA24	20	(10) #10	1,770	2,235	2,235			
HHETA40	36	(10) #10	1,770	2,235	2,235			

1. Allowable loads may not be increased for wind or seismic load.
2. Minimum $f'_c = 2,500$ psi. Minimum $f'_m = 1,500$ psi.
3. For simultaneous loads in more than one direction, the connector must be evaluated as described in Note d, p. 16 under General Instructions to the Designer.
4. It is acceptable to use a reduced number of fasteners provided that there is a reduction in uplift load capacity. Lateral loads do not apply when fewer fasteners are used.
5. The HHETA allowable F_1 load can be increased to 435 lb. if the strap is wrapped over the truss and a minimum of 12 fasteners are installed.
6. Minimum spacing for multiple anchor installation is two times the embedment depth for full load. See Double Embedded Anchor Installation table on p. 221 for loads on closer spaced anchors.
7. Minimum edge distance is 1 1/2" for concrete and 2" masonry.
8. Lateral loads are limited to 54 mil (16 ga.) CFS members.
9. See the current *Fastening Systems* catalog at strongtie.com for more information on Simpson Strong-Tie fasteners.

META/HETA/HHETA Embedded Truss Anchors

Double Embedded Anchor Installation

Model No.	Qty.	Application	Fasteners ⁸	Allowable Uplift Load (lb.)			Lateral Load ⁷	
			Rafter/Stud/Truss Thickness				F ₁	F ₂
			33 mil, 43 mil and 54 mil (20 ga., 18 ga. and 16 ga.)	33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)	54 mil (16 ga.)	
1½" Width Minimum of Rafter/Stud/Truss								
META	2	CMU	(10) #10	1,770	1,985	1,985	340	725
		Concrete	(10) #10	1,770	1,985	1,985		
HETA	2	CMU	(10) #10	1,770	2,035	2,035	340	725
		Concrete	(10) #10	1,770	2,035	2,035		
HHETA	2	CMU	(10) #10	1,770	2,035	2,035	340	815
		Concrete	(10) #10	1,770	2,235	2,235		
3" Width Minimum of Rafter/Stud/Truss								
META	2	CMU	(14) #10	1,900	1,900	1,900	1,210	1,160
		Concrete	(14) #10	2,480	2,565	2,565		
HETA	2	CMU	(12) #10	2,480	2,500	2,500	1,225	1,520
		Concrete	(12) #10	2,480	2,700	2,700		
HHETA	2	CMU	(12) #10	2,480	2,500	2,500	1,225	1,520
		Concrete	(12) #10	2,480	3,050	3,050		
		Concrete	(14) #10	2,480	3,350	3,350		

1. Allowable loads may not be increased for wind or seismic load.
2. Minimum $f'_c = 2,500$ psi. Minimum $f_m = 1,500$ psi.
3. For simultaneous loads in more than one direction, the connector must be evaluated as described in Note d, p. 16 under General Instructions to the Designer.
4. Minimum spacing for multiple anchor installation is two times the embedment depth for full load. See Double Embedded Anchor Installation table for loads on closer spaced anchors.
5. Install with spoons facing outward and straps spaced no more than 1/8" wider than the truss width.
6. F₁ lateral loads listed may cause an additional 1/16" deflection beyond the standard 1/8" limit there the straps are installed not wrapped over the heel as shown.
7. Lateral loads are limited to 54 mil (16 ga.) CFS members.
8. See the current *Fastening Systems* catalog at strongtie.com for more information on Simpson Strong-Tie fasteners.

