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

SIMPSON Strong-Ti

The embedded truss anchor series provides an engineered method to properly attach roof trusses to concrete and masonry walls. The products are designed with staggered nail patterns for greater uplift resistance. Information regarding the use of two anchors on single- and multi-ply trusses is included.

The TSS, a companion product of the META, provides a moisture barrier between the concrete and truss. The preassembled unit is riveted with no height adjustment.

NEW! The DETAL20 is a high capacity embedded truss anchor for attachment of single-ply trusses to concrete and masonry walls. It combines dual embedded anchors with a structural moisture-barrier seat that is partially embedded in the concrete or grout. This seat serves to receive the truss and also provides additional lateral and protect the truss and also provides additional lateral and uplift capacity. The embedded anchors are pre-attached to the moisture barrier through slots that allow for a slight amount of adjustability, providing flexibility during installation to avoid rebar. The moisture-barrier seat includes tabs at each end for optional attachment to the form board in concrete tie-beam applications.

MATERIAL: HHETA-14 gauge; HETA-16 gauge; HETAL-strap 16 gauge, truss seat 18 gauge; META-18 gauge; TSS-22 gauge; DETAL-16 gauge (Barrier-18 gauge)

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

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

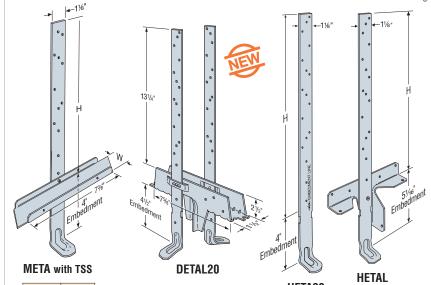
- The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 5½,6"; DETAL is embedded 4½".
- The DETAL20 is installed centered and flush on top of an 8" masonry bond beam or concrete tie beam. The moisture barrier seat bears on masonry face shell or concrete tie beam form boards; the two flanges embed into grout or concrete. The two embedded anchors shall be installed vertically into grout or concrete.
- The TSS moisture barrier may be preattached to the truss using 6d commons.
- · A shim is required between the truss and the embedded truss anchor when there is a space of 1/8" to 11/2".
- In double embedded anchor installations, do not install fasteners where the straps overlap when wrapped over the truss heel.

**CODES:** See page 12 for Code Reference Key Chart.

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.

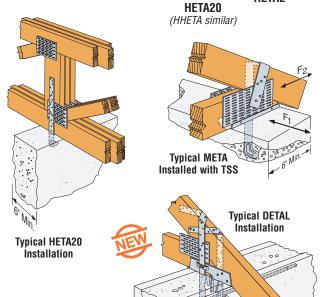
## Single Embedded Anchor Installation

	Model No.		SP Uplift Load 160 Load Duration Increase				Lateral Loads		
		Н	10dx1½		16d		(160)		Code Ref.
	110.		Quantity	Load	Quantity	Load	F <sub>1</sub>	F <sub>2</sub>	1101.
	META12	8	7	1450	6	1450	340	725	
	META14	10	7	1450	6	1450	340	725	
	META16	12	7	1450	6	1450	340	725	
	META18	14	7	1450	6	1450	340	725	
	META20 <sup>6</sup>	16	7	1450	6	1450	340	725	
	META22	18	7	1450	6	1450	340	725	
	META24	20	7	1450	6	1450	340	725	
	META40	36	7	1450	6	1450	340	725	
	HETA12	8	7	1520	7	1780	340	725	
	HETA16	12	9	1810	8	1810	340	725	
	HETA20 <sup>6</sup>	16	9	1810	8	1810	340	725	F27
	HETA24	20	9	1810	8	1810	340	725	
	HETA40	36	9	1810	8	1810	340	725	
	HHETA12	8	7	1565	7	1820	340	815	
	HHETA16	12	10	2235	9	2235	340 <sup>7</sup>	815	
	HHETA206	16	10	2235	9	2235	340 <sup>7</sup>	815	
	HHETA24	20	10	2235	9	2235	3407	815	
	HHETA40	36	10	2235	9	2235	340 <sup>7</sup>	815	
	HETAL12	7	10 <sup>4</sup>	1085	10 <sup>4</sup>	1270	415 <sup>5</sup>	1100	
	HETAL16	11	144	1810	13 <sup>4</sup>	1810	415 <sup>5</sup>	1100	
	HETAL20	15	144	1810	13 <sup>4</sup>	1810	415 <sup>5</sup>	1100	



Model No.	W	
TSS2	1¾	
TSS2-2	31/8	
TSS4	35/8	

Moisture barrier not shown (Typ.)



#5 Rebai

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 Instructions to the Designer.

4. Five nails must be installed into the truss seat of the HETAL.

Straps may be installed straight or wrapped over to achieve listed loads

5. Parallel-to-wall load towards face of HETAL is 1975 lbs. 6. It is acceptable to use a reduced number of fasteners provided that there is a reduction in uplift load capacity See example on page 151. Lateral loads do not apply when fewer than 7 fasteners are used with the HETA and HHETA anchors or less than 6-16d or 7-10dx1½ fasteners are used with the META anchor.

7. The HHETA allowable F1 load can be increased to 435 lbs. if the strap is wrapped over the truss and a minimum of 12 nails are installed.

8. Minimum spacing for multiple anchor installation is 2 times the embedment depth for full load. See Double Embedded Anchor Installation table on page 144 for loads on closer

spaced anchors.

9. Single ply trusses may use either 10dx1½ or 16d nails.

2 or 3 ply trusses shall use 16d nails.

**NAILS:** 16d = 0.162" dia. x  $3\frac{1}{2}$ " long,

10dx11/2 = 0.148" dia. x 11/2" long. See page 16-17 for other nail sizes and information.