

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.

MATERIAL: HHETA-14 gauge; HETA-16 ga; HETAL strap 16 gauge, truss seat 18 gauge; META-18 gauge; TSS-22 gauge.

FINISH: Galvanized. Some products available in Z-MAX; see Corrosion Resistance, page 5.

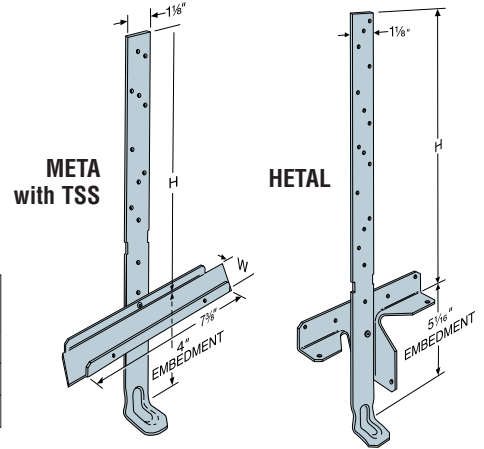
INSTALLATION: • Use all specified fasteners. See General Notes.

- The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 5 1/16".
- Do not drive nails through the truss plate on the opposite side of the truss, which could force the plate off the truss.
- The TSS moisture barrier may be preattached to the truss using 6d commons.

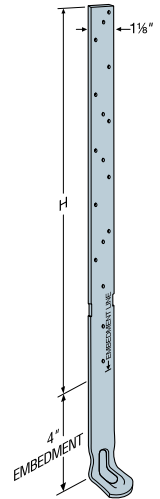
CODES: See page 10 for Code Listing Key Chart.

Available with additional corrosion protection. Check with factory.

Model No.	W
TSS2	1 3/4
TSS2-2	3 3/8
TSS4	3 5/8



Model No.	H	133 Load Duration Increase				160 Load Duration Increase				Lateral Loads (133 & 160)		Code Ref.
		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		F ₁	F ₂	
		Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load			
META12	8	7-10dx1 1/2	1240	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	65	85	128
META14	10	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	65	85	
META16	12	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	335 ⁴	635 ⁴	
META18	14	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	335 ⁴	635 ⁴	
META20 ⁶	16	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	335 ⁴	635 ⁴	
META22	18	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	335 ⁴	635 ⁴	
META24	20	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	335 ⁴	635 ⁴	
META40	36	9-10dx1 1/2	1450	7-16d	1450	7-10dx1 1/2	1450	6-16d	1450	335 ⁴	635 ⁴	
HETA12	8	7-10dx1 1/2	1265	7-16d	1475	7-10dx1 1/2	1520	7-16d	1780	65	85	8, 62, 121, 128
HETA16	12	10-10dx1 1/2	1805	9-16d	1810	9-10dx1 1/2	1810	8-16d	1810	335 ⁴	730 ⁴	
HETA20 ⁶	16	10-10dx1 1/2	1805	9-16d	1810	9-10dx1 1/2	1810	8-16d	1810	335 ⁴	730 ⁴	
HETA24	20	10-10dx1 1/2	1805	9-16d	1810	9-10dx1 1/2	1810	8-16d	1810	335 ⁴	730 ⁴	128
HETA40	36	10-10dx1 1/2	1805	9-16d	1810	9-10dx1 1/2	1810	8-16d	1810	335 ⁴	730 ⁴	
HHETA12	8	7-10dx1 1/2	1305	7-16d	1520	7-10dx1 1/2	1565	7-16d	1820	65	85	128
HHETA16	12	12-10dx1 1/2	2235	11-16d	2235	10-10dx1 1/2	2235	9-16d	2235	335 ⁴	730 ⁴	
HHETA20 ⁶	16	12-10dx1 1/2	2235	11-16d	2235	10-10dx1 1/2	2235	9-16d	2235	335 ⁴	730 ⁴	
HHETA24	20	12-10dx1 1/2	2235	11-16d	2235	10-10dx1 1/2	2235	9-16d	2235	335 ⁴	730 ⁴	
HHETA40	36	12-10dx1 1/2	2235	11-16d	2235	10-10dx1 1/2	2235	9-16d	2235	335 ⁴	730 ⁴	
HETAL12	7	11-10dx1 1/2	1265	11-16d	1475	11-10dx1 1/2	1515	11-16d	1770	415	1100	8, 62, 121, 128
HETAL16	11	15-10dx1 1/2	1810	13-16d	1810	14-10dx1 1/2	1810	12-16d	1810	415	1100	
HETAL20	15	15-10dx1 1/2	1810	13-16d	1810	14-10dx1 1/2	1810	12-16d	1810	415	1100	

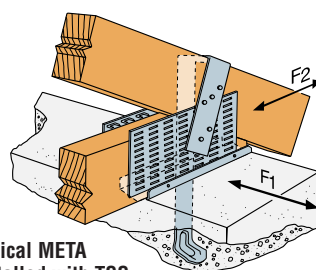


HETA20 (HHETA similar)

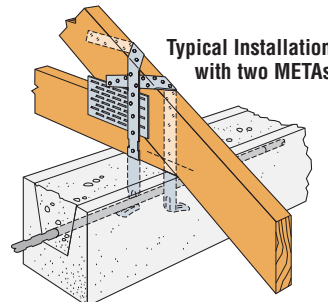
1. Loads include a 33% or 60% load duration increase on the fasteners for seismic or wind loading, but do not include a 33% stress increase on the steel capacity. Refer to page 12 for further explanation.
2. Five nails must be installed into the truss seat of the HETAL.
3. Parallel-to-plate load towards face of HETAL is 1975 lbs.
4. Lateral loads for products noted in the table are based on a minimum installation of 12 nails and the strap wrapped over the heel.
5. Minimum f'c is 2,000psi.
6. On the META20, HETA20 and HHETA20, it is acceptable to use a reduced number of fasteners provided that there is a reduction in load capacity. See example on page 137.
7. Minimum spacing is 2 times the embedment depth for full load.
8. See instruction to the Designer page 9 for loads in multiple directions.

Model No.	Double Embedded Anchor Installation Into Grouted CMU Bond Beam								Lateral Loads (133 & 160)		Code Ref.
	133 Load Duration Increase				160 Load Duration Increase				SPF/HF		
	1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		1 Ply So. Pine Truss		2 or 3 Ply So. Pine Truss		F ₁	F ₂	
META	12-10dx1 1/2	1985	14-16d	1900	10-10dx1 1/2	1985	14-16d	1900	1040	1000	128
HETA	12-10dx1 1/2	2035	14-16d	2500	10-10dx1 1/2	2035	12-16d	2500	1055	1305	121, 128

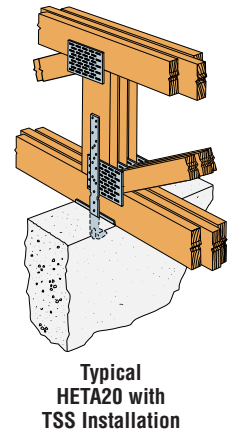
1. For concrete tie beam applications for 2 or 3 ply trusses, increase the META load 35% and the HETA load 8%.
2. Divide total number of fasteners equally between both straps.
3. Minimum f'c is 2,500 psi.
4. See instruction to the Designer page 11 for loads in multiple directions.
5. Lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel.



Typical META Installed with TSS



Typical Installation with two METAs



Typical HETA20 with TSS Installation