



HTT SERIES

TENSION TIES

New & Improved Design

Features:

- » Nail fastening makes for a convenient connection to studs or posts in cramped retrofit installations.
- » Eliminates field drilling into studs.
- » Viable option to using predeflected holdowns.

USP supplies quality products to build Stronger Safer Structures

Customer Service:
Burnsville, MN
Phone: 1-800-328-5934
1-952-898-8772
Fax: 1-952-898-8605

Manufacturing:
Montgomery, MN
Livermore, CA
Largo, FL
Thornhill, Ontario

Warehouses:
Houston, TX
Lumberton, NJ

The new and improved HTT4 and HTT5 are designed to replace our current HTT16 and HTT22 and are tested to meet the latest AC155 code requirements offering higher load capacity.

Usage:

- Nail-to-stud tension ties provide strong wood-to-concrete and wood-to-masonry connections for retrofit or new construction.
- Designed for anchoring shear walls to foundations in seismic or high wind regions

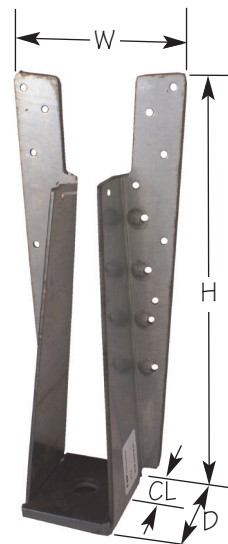
Materials: 12 gauge

Finish: G90 galvanizing

Codes: ER-0200, FL14500

Installation:

- Use all specified fasteners to attach the strap portion of the connection to the side of stud, post, joist, purlin, or beam. Secure the base to the concrete or masonry wall with specified anchor bolt. A design professional shall specify the type, length, and embedment of the anchor bolt. No washers required.
- Tighten anchor bolt nuts finger tight snug to base, plus $\frac{1}{8}$ to $\frac{1}{2}$ additional turns with a wrench. To prevent loosening of the anchor nut during critical loading, use a locking nut or tighten a second nut over the first to lock nuts in place.



HTT4



Typical HTT4 installation

USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3,4}				Allowable Tension Loads (Lbs) ¹		Deflection at Allowable Load Δ (in) at 160% ^{5,6}	Ctn Qty
			W	L	D	CL	Anchor Bolts ⁵		Strap		DF-L / SP	S-P-F		
							Qty	Dia	Qty	Type				
HTT4	HTT4	12	3	10 ⁷ / ₁₆	2 ³ / ₄	1 ³ / ₈	1	5/8	18	10d x 1-1/2	2715	2335	0.095	10
										10d	3295	2835		
										16d x 2-1/2	4465	3840		
HTT5	HTT5	12	3	13 ¹⁵ / ₁₆	2 ³ / ₄	1 ³ / ₈	1	5/8	28	10d x 1-1/2	3225	2775	0.088	10
										10d	4745	4080		
										16d x 2-1/2	5430	4670		

1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) Minimum nail embedment shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.

10d x 1-1/2" nails are 9 gauge (0.148" diameter) by 1-1/2" long.

3) 16d sinkers may be substituted for the specified 10d common nails with no load reduction.

4) The designer must specify anchor bolt type, length and embedment depth.

5) Deflections are derived from static, monotonic load tests of devices connected to DF-L wood members with specified fasteners.

6) HTT holdowns raised off of the sill plate may have higher deflection values.

Consult USP for pricing.



HTT SERIES

RETAIL/LOGISTIC INFORMATION

Part Number	Product Description	Product Features and Use	Attributes and Specifications	Product Width	Product Depth	Product Height	Steel Gauge	Finish	Carton Qty	Each UPC Code	Carton UPC Code	I2of5 Shipping Code
HTT4	Tension Tie	Secures multi-ply studs or posts to mudsills or foundation. Nail fastening makes for a convenient connection to studs or posts in cramped retrofit installations.	ER-0200	3	2-3/4	10-7/16	12	G90	10	081942128595	081942130291	10081942128592
HTT5	Tension Tie	Secures multi-ply studs or posts to mudsills or foundation. Nail fastening makes for a convenient connection to studs or posts in cramped retrofit installations.	ER-0200	3	2-3/4	13-15/16	12	G90	10	081942128601	081942130307	10081942128608

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