



MiTek's newest addition to our line of Tension Ties is the HTT45 which provides two different load carrying capacities by utilizing a diamond hole maximum nailing pattern. Fully tested to the latest standards, the HTT45's high load carrying capacity exceeds the hold-down connection requirements for Alternate Braced Wall construction. Easily installs with 10d or 16d nails. Use 16d Max nailing when lower deflections are required by design.

Materials: 10 gauge

Finish: G90 galvanizing

Features:

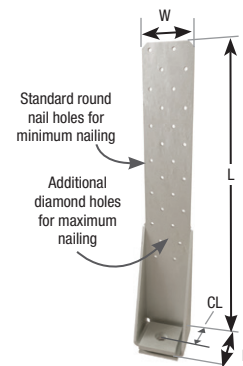
- Installs above the sill plate (recommended maximum height 18")
- Easily installs as a retrofit tie to reinforce existing post and shear wall connections.
- Fully integrated 3Ga washer provides positive load transfer to wood framing members.
- No pre-drilling. Installs with 10d or 16d nails.
- A tension tie with predeflected holdown load carrying capacity.
- When installed using MiTek's 5/8" STB anchor bolt, the HTT45 Tension Tie becomes part of a fully-tested and structurally rated system.

Installation:

- Use all specified fasteners to attach the strap portion of the connector 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.
- **HTT45 Min** – Fill all round nail holes.
- **HTT45 Max** – Fill all round and diamond nail holes.
- Washers are not required on transfer plates that fit over the anchor bolt.
- Tighten anchor bolt nuts finger tight to base plus 1/3 to 1/2 additional turns with a wrench.



**Typical HTT45
Max installation**



HTT45

MiTek Stock No.	Ref. No.	Steel Gauge	Dimensions (in)				Nail Spacing (in)	Fastener Schedule				D Fir-L		S-P-F		Ctn Qty	
			W	L	D	CL		Min/ Max	Qty	Anchor Bolt ³ Dia. (in)	Strap ^{2,4}		Factored Resistance		Factored Resistance		
											Qty	Type	Tensile 115% ¹		Tensile 115% ¹		
													Lbs	kN	Lbs		kN
HTT45	HTT4, HTT5	10	2-1/2	16	2	1-3/8	1-3/4	Min	1	5/8	18	10d	5590	24.87	4905	21.82	10
											16d x 2-1/2	6600	29.36	5780	25.71		
								Max	26	10d	7280	32.38	6390	28.42			
										16d x 2-1/2	8255	36.72	7230	32.16			

1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; no further increase allowed.

2) 16d sinkers may be substituted for the specified 10d common nails with no load reduction.

16d common nails may be substituted for the specified 16d x 2-1/2" nails with no load reduction.

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

4) **NAILS:** 10d nails are 0.148" dia. x 3" long, 16d x 2-1/2" nails are 0.162" dia. x 2-1/2" long.