Mitek[®] PRO SERIES

The MiTek[®] Pro Series[™] WSTS Truss Structural Wood Screw can be used to resist uplift and lateral loads for truss/rafter-to-plate and stud-to-plate connections. The WSTS is tested in accordance with ICC-ES AC233 and AC13 and meets 2018 IRC and IBC code requirements.

Features and Benefits:

- Reverse thread angle on opposite ends of screw creates increased withdrawal where it's needed for higher capacity and greater uplift resistance. The shank is fully threaded along its length for installation flexibility.
- Head design countersinks out of the way of finishing materials like drywall and trim.
- Type-17 point engages the wood quickly for easier starting and driving the screw.
- Included 6" T30 Driver Bit and Angle Tool makes proper installations easier.
- WSTS can be installed on the inside eliminating difficult installations on the outside of wall.
- Included driver bit with installation guide holds screw firmly so screw may be installed with one hand.

Materials: 3/16" heat treated carbon steel Finish: Exterior Coat Codes: IBC, FL, LA Patents: Pending

WSTS45 Installation:

- Position screw point approximately 2-3/4" from the end of the stud on the narrow or wide face. The screw point should be no closer than 1/2-in from the edge. Install the screw at an angle of 22° from vertical using the angle tool.
- Drive the WSTS screw head flush to the wood surface
- Installation angle is 15° to 25°. Use the angle tool for optimal 22° angle.

WSTS6 Installation:

- The removable angle tool comes attached to the bit. Install bit onto drill.
- Truss aligned directly over wall stud: Position screw point where bottom of top plate and top of stud meet. Install screw at 22° angle using the angle tool.
- **Truss between two wall studs:** On the underside of the top plate, position screw in the center of the top plate and truss bottom chord. Install the screw perpendicular through the double top plate to the truss bottom chord. Drive WSTS screw head flush to the wood surface.









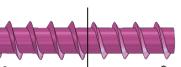
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WSTS45-EXT



EXTERIOR

USE EXT

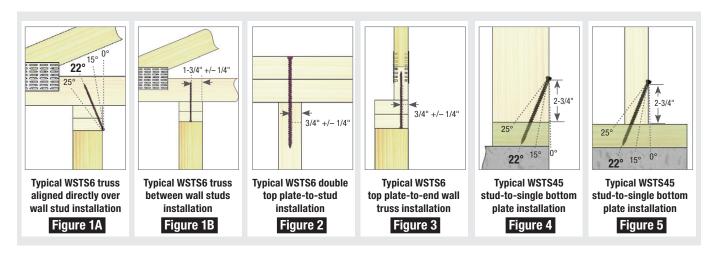


Patent Pending

Both WSTS45 and WSTS6 products feature a reversing asymmetrical thread angle, adding withdrawal capacity

WSTS Truss Structural Wood Screw

Truss & Rafter



Specification Table

						DF Allowable Loads (Lbs.) ^{2,3,4,8}		SP Allowable Loads (Lbs.) ^{2,3,4,8}			S-P-F Allowable Loads (Lbs.) ^{2,3,4,8}				
Size (in)	MiTek Stock No.	Ref. No.	Length (in)	Finish ¹	Installation Type ⁵	Uplift ⁷ 160%	F1 ⁶ 160%	F2 ⁶ 160%	Uplift ⁷ 160%	F1 ⁶ 160%	F2 ⁶ 160%	Uplift ⁷ 160%	F1 ⁶ 160%	F2 ⁶ 160%	Code Ref.
0.152 x 6	WSTS6	SDWC15600	6	EXT	Figure 1A	715	225	443	802	263	496	573	177	355	BC,
					Figure 1B										
					Figure 2	616		228	637		257	616		228	
					Figure 3	847	547	336	876	547	373	662	519	235	LA
0.152 x 4-1/2	WSTS45	SDWC15450	4-1/2	EXT	Figure 4	372		277	493		334	296		231	
					Figure 5	313		251	380		266	281		161	

1) EXT = Exterior Coat.

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

3) Allowable loads are for WSTS screws installed in accordance with installation instructions.

4) When the screw is to be loaded in multiple directions simultaneously, refer to note 1 in Design Notes on page 18.

5) Double top plates should be independently fastened together as required by applicable code.

6) F1 loading is parallel to the top or bottom plate. F2 loading is perpendicular to the top or bottom plate.

7) Designer must ensure that a continuous load path transfers the uplift loads to the foundation.

8) Wood species shall have a minimum NDS referenced specific gravity of 0.50 for DF, 0.55 for SP, and 0.42 for SPF.

9) Table loads to do not apply to installations in trusses with end grain bearing.

Refer to MiTek's WSTS Truss and Wall Tiedown Installations technical bulletin at MiTek-US.com for additional design information. New products or updated product information are designated in blue font.

Packaging Table

	Lenath	Retail Box (Offering	Bulk Offering		
Use	(in)	MiTek Stock No.	Box/Ctn Qty	MiTek Stock No.	Box Qty	
Stud to Plate	4-1/2	WSTS45-EXTR50	5-pack/50-ea	WSTS45-EXTBP	500-ea	
Plate to Truss	6	WSTS6-EXTR50	5-pack/50-ea	WSTS6-EXTBP	500-ea	



6" T30 Impact-Driver

Compatible Bit

Angle Tool