

TRUSS STRUCTURAL WOOD SCREW

FOR STUD-TO-PLATE & PLATE-TO-TRUSS CONNECTIONS

MiTek®



The MiTek® 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.

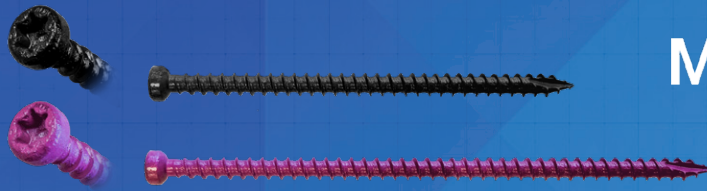
- ➔ Reverse thread angle on opposite ends of screw creates increased withdrawal where it's needed for higher capacity and greater uplift resistance
- ➔ The shank is fully threaded along its length for installation flexibility
- ➔ Head design countersinks out of the way of finishing materials like drywall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



U.S. Patent No. 10,823,218

TRUSS STRUCTURAL WOOD SCREW

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ALLOWABLE LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Length (in)	Finish ¹	Installation Type ⁵	DF			SP			S-P-F		
						Allowable Loads (Lbs.) ^{2,3,4,8}			Allowable Loads (Lbs.) ^{2,3,4,8}			Allowable Loads (Lbs.) ^{2,3,4,8}		
						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%
0.152 x 6	WSTS6-EXT	SDWC15600	6	EXT	Double Top Plate To Truss (Bearing Truss)	715	225	443	802	263	496	573	177	355
					Double Top Plate To Stud	616	--	228	637	--	257	616	--	228
					Double Top Plate To Truss (End Wall)	847	547	336	876	547	373	662	519	235
0.152 x 4-1/2	WSTS45-EXT	SDWC15450	4-1/2	EXT	Stud to Single Bottom Plate (Narrow Face)	372	--	277	493	--	334	296	--	231
					Stud to Single Bottom Plate (Wide Face)	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 20 of the 59th Ed. MiTek catalog.
- 5) Double top plates must be fastened together as required by applicable code.
- 6) F1 loading is parallel to the top or bottom plate. F2 is loading 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 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.



INCLUDED IN EACH BOX:

- 6-in T30 Impact-Driver Compatible Bit
- Angle Tool



U.S. Patent No. 10,639,769

PACKAGING TABLE

Use	Length (in)	Retail Box Offering		Bulk Offering	
		MiTek Stock No.	Box/Ctn Qty	MiTek Stock No.	Ctn 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

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