



T-STAR plus Flat Head 304 Stainless Steel



Multi-Purpose Engineered Fasteners



MADE IN GERMANY

DESCRIPTION

SPAX® T-STAR plus Flat Head fasteners made of 304 stainless steel are designed for use in exterior wood connections often found outside residential domains. These “work horse” construction fasteners are designed to countersink in treated lumber for a clean-flush finish. 304 stainless steel fasteners are well suited for cedar and redwood decking materials and use in coastal environments.

MATERIALS & COATING

Cold-rolled 304 stainless steel wire, with a passivated surface to provide corrosion protection. “Stainless steel” is code compliant for use in ground contact pressure treated and fire-retardant-treated¹ lumber for exterior, coastal general construction applications (e.g. AWWA UC1-UC4B, UCFA and UCFB).



Patented MULTHead

Countersinks screw head flush with material.

U.S. Patent No. 7,334,976



Unique 4CUT™ Point

Prevents splitting and requires no pre-drilling in wood.



Patented Serrations

Allow for quicker, easier fastening.

U.S. Patent No. 7,101,133



T-STAR plus Drive

“The PRO’s Choice” drive system provides superior bit engagement, eliminates camming out and facilitates overhead driving.



TYPICAL EXTERIOR APPLICATIONS

- 2-by framing connections - coastal environment applications
- Deck board finishing installation, especially cedar and redwoods
- Deck railing 2x2 baulster
- Stair treads - treated lumber deck
- Exterior fencing
- Shed construction
- Outdoor furniture

1. Refer to FRT manufacturer for recommendations on fastener coatings into FRT lumber.

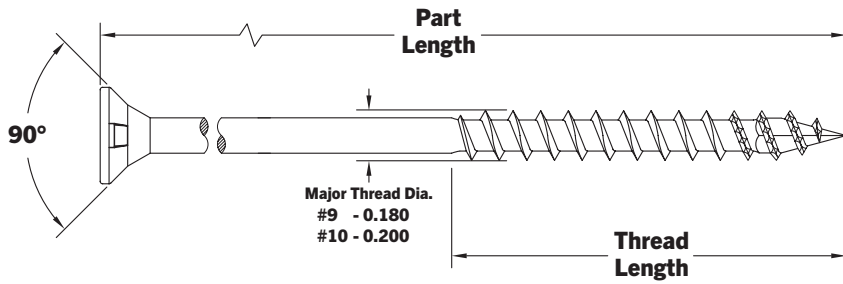


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ENGINEERED FASTENERS

Multi-Purpose Engineered Fasteners



PRODUCT SELECTION

Part Length	Thread Length		Head Size	Drive/Bit Size	Approx. Qty.	Pkg. Type	Master Qty.	Part No.
	Full	Partial						
#9 x 1-1/2"	N/A	1.000	0.340	T20+	155	1 lb. Box	5	4197000450404
#9 x 2"	N/A	1.280	0.340	T20+	125	1 lb. Box	5	4197000450504
#10 x 2-1/2"	2.275	1.450	0.390	T20+	83	1 lb. Box	5	4197000500604
#10 x 3"	2.375	1.600	0.390	T20+	68	1 lb. Box	5	4197000500754
					205	3 lb. Box	3	41970005007545
					340	5 lb. Box	3	4197000500757

NOTE: Only sold in master cartons.



1 lb. Box



3 lb. Box



5 lb. Box



T-Star plus Bit

EXTERIOR

BIT SELECTION

Drive Bit	Bit Size	Master Qty.	Part No.
T20+	1"	10	5000009185209
	2"	10	5000009285209



NOTE: Only sold in master cartons. Made in Taiwan.

FASTENER LENGTHS

Part Length	Head	Fastener	Part Length	Head	Fastener
#9 x 1-1/2"			#10 x 2-1/2"		
#9 x 2"			#10 x 3"		



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ENGINEERED FASTENERS

Multi-Purpose Engineered Fasteners

PERFORMANCE SPECIFICATIONS



TER No. 2010-02
Multi-Purpose Fastener Properties

DIAMETER	ALLOWABLE WITHDRAWAL (W) AND HEAD PULL-THROUGH (W_H) ^{1,2,3,4}					
	SOUTHERN PINE (G=0.55)		DOUGLAS-FIR (G=0.50)		HEM FIR & SPRUCE-PINE-FIR (G=0.42)	
	WITHDRAWAL (W) (lbs./inch)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs./inch)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs./inch)	HEAD PULL-THROUGH (W_H) (lbs.)
#9	190	303	146	211	132	177
#10	190	315	176	238	144	177

DIAMETER	ALLOWABLE WITHDRAWAL (W) AND HEAD PULL-THROUGH (W_H) ^{1,2}													
	PLYWOOD 15/32" (G=0.39)		PLYWOOD 19/32" (G=0.39)		PLYWOOD 23/32" (G=0.50)		OSB 7/16" (G=0.50)		OSB 15/32" (G=0.50)		OSB 19/32" (G=0.50)		OSB 23/32" (G=0.50)	
	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)	WITHDRAWAL (W) (lbs.)	HEAD PULL-THROUGH (W_H) (lbs.)
#9	51	125	92	145	186	258	39	65	54	68	54	78	66	110
#10	90	151	92	177	186	293	39	73	54	78	54	78	66	110

¹ Tabulated withdrawal and head pull-through design values (W) and (W_H) are shown at a $C_D = 1.0$. Tabulated withdrawal and head pull-through values shall be adjusted by all applicable adjustment factors per *NDS* Table 11.3.1.

² Full withdrawal strength is calculated by multiplying the length of thread embedded in the main member by the tabulated reference withdrawal values.

³ Head pull-through values for #8 diameter and larger in Southern Pine, Douglas-Fir, Hem-Fir and Spruce-Pine-Fir are minimum 1.5" side member thickness.

⁴ For wood species with an assigned specific gravity between 0.42 and 0.50, use the tabulated values for specific gravity of 0.42. For wood species with an assigned specific gravity between 0.50 and 0.55, use the tabulated values for specific gravity of 0.50. For wood species with an assigned specific gravity greater than or equal to 0.55, use the tabulated values for specific gravity of 0.55.

EXTERIOR