

T-STAR Washer Head Black eCoat

POWERLAGS®



DESCRIPTION

SPAX® T-STAR Washer Head fasteners with eCoat coating are designed for use in wood-to-wood connections often found inside log homes or timber frame applications. These fasteners are designed with a low profile, large diameter wafer head for applications requiring additional surface area under the head for superior pull-down force.

MATERIALS & COATING

Cold-rolled “carbon steel” wire, heat treated for strength and durability and plated with an eCoat finish to prevent red rust. “eCoat” is recognized for use in untreated and above ground contact pressure treated lumber for interior dry/damp general construction applications (e.g., AWPA UC1-UC2).

INTERIOR



Built-on Washer Head

Eliminates the need and cost of a separate washer.

*T-STAR drive reduces stripping.



Patented Serrations

Allow for quicker, easier fastening.

*40% lower driving torque.



Reliable Connections

Heat treated for strength and durability.



TER No. 1912-07
Structural Wood
Fastener Properties



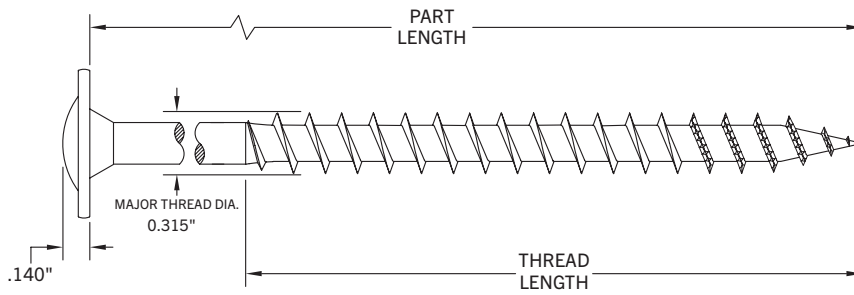
TYPICAL APPLICATIONS

- Log Home & Timber Framing Applications
 - Wall log attachment/assembly (Log Homes)
 - Beams and Engineered Wood connections (Timber Framing)
- General Heavy Construction Applications
 - Job-site built SIP roofing systems
 - Rafter to post connection (Overhanging Porch)
 - Deck ledgers
 - Decorative hangers
 - Landscaping timbers
 - Retainer walls

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PRODUCT SELECTION

PART LENGTH	THREAD LENGTH	HEAD SIZE	DRIVE/BIT SIZE	APPROX. QTY.	PKG. TYPE	MASTER QTY.	PART NO.
5/16" x 6"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770801500
5/16" x 8"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770802000
5/16" x 9"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770802200
5/16" x 10"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770802500
5/16" x 11"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770802700
5/16" x 12"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770803000
5/16" x 14"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770803500
5/16" x 15"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770803800
5/16" x 16"	2.375"	0.776"	T40	250	Bulk Pail	N/A	3581770804000



Bulk Pail

INTERIOR

BIT SELECTION

DRIVE BIT	BIT SIZE	MASTER QTY.	PART NO.
T40	1"	10	5000002016409



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



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FASTENER LENGTHS

PART LENGTH	HEAD	FASTENER
5/16" x 6"		
5/16" x 8"		
5/16" x 9"		
5/16" x 10"		
5/16" x 11"		
5/16" x 12"		
5/16" x 14"		
5/16" x 15"		
5/16" x 16"		

INTERIOR

PERFORMANCE SPECIFICATIONS



TER No. 1912-07
Structural Wood Fastener Properties

DIAMETER	ALLOWABLE WITHDRAWAL (W), HEAD PULL-THROUGH (W_{HT}), LATERAL SHEAR PARALLEL TO GRAIN ($Z_{ }$), AND LATERAL SHEAR PERPENDICULAR TO GRAIN (Z_{\perp}) VALUES ^{1,2,3,4,5,6,7}											
	SOUTHERN PINE (G=0.55)				DOUGLAS-FIR (G=0.50)				HEM FIR & SPRUCE-PINE-FIR (G=0.42)			
	WITHDRAWAL	HEAD PULL-THROUGH	LATERAL SHEAR		WITHDRAWAL	HEAD PULL-THROUGH	LATERAL SHEAR		WITHDRAWAL	HEAD PULL-THROUGH	LATERAL SHEAR	
	(W)	(W_{HT})	$Z_{ }$	Z_{\perp}	(W)	(W_{HT})	$Z_{ }$	Z_{\perp}	(W)	(W_{HT})	$Z_{ }$	Z_{\perp}
(lbs./inch)	(lbs.)	(lb.)	(lb.)	(lbs./inch)	(lbs.)	(lb.)	(lb.)	(lbs./inch)	(lbs.)	(lb.)	(lb.)	
5/16"	415	965	440	405	300	840	405	375	250	665	380	355

¹ "Withdrawal", "Head Pull-Through", and "Lateral Shear" design values shall be adjusted by all applicable adjustment factors per NDS Table 11.3.1.

² "Withdrawal" design values are to be multiplied by the length of the thread penetration into the side grain of the main member. Length includes tip.

³ "Withdrawal" design values are from the main member, and "Head Pull-Through" design values are based on a minimum of 1-1/2" side member thickness.

⁴ Tabulated "Withdrawal" and "Head Pull-Through" design values are for the wood species with the listed assigned specific gravities. Where the wood species assigned specific gravity is not listed, use the next lower assigned specific gravity values.

⁵ Tabulated "Lateral Shear" design values are for the wood species with the listed assigned specific gravities applied to both the main and side members. Where the members are different assigned specific gravities, use the lower of the two.

⁶ Tabulated "Lateral Shear" design values require fasteners must be oriented perpendicular to the side grain, and the underside of the fastener head be installed flush with the surface of the side member.

⁷ Tabulated "Lateral Shear" design values require a minimum fastener penetration into the main member of 1.375" for fasteners less than 4" and 2.375" for all other lengths.