PERFORMANCE SPECIFICATIONS

Dr J TER No. 1912-07
Structural Wood Fastener Properties

ALLOWABLE WITHDRAWAL (W), HEAD PULL-THROUGH (W_H), LATERAL SHEAR PARALLEL TO GRAIN ($Z_{\parallel}$), AND LATERAL SHEAR PERPENDICULAR TO GRAIN ($Z_{\perp}$) VALUES[1,2,3,4,5,6,7]

DIAMETER	LENGTH	SOUTHERN PINE (G=0.55)				DOUGLAS-FIR (G=0.50)				HEM FIR & SPRUCE-PINE-FIR (G=0.42)			
		WITH-DRAWAL	HEAD PULL-THROUGH	LATERAL SHEAR		WITH-DRAWAL	HEAD PULL-THROUGH	LATERAL SHEAR		WITH-DRAWAL	HEAD PULL-THROUGH	LATERAL SHEAR	
		(W)	(W_H)	$Z_{\parallel}$	$Z_{\perp}$	(W)	(W_H)	$Z_{\parallel}$	$Z_{\perp}$	(W)	(W_H)	$Z_{\parallel}$	$Z_{\perp}$
		(lbs./inch)	(lbs.)	(lbf.)	(lbf.)	(lbs./inch)	(lbs.)	(lbf.)	(lbf.)	(lbs./inch)	(lbs.)	(lbf.)	(lbf.)
1/4"	< 3"	375	850	305	285	310	785	265	235	245	585	250	225
	3.5"			390	370			360	340			315	285
	ALL OTHER LENGTHS			400	370			360	335			350	310

[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.

BUILT-ON WASHER HEAD

Eliminates the need and cost of a separate washer.

PATENTED SERRATIONS

Allow for quicker, easier fastening.

*40% lower driving torque.

RELIABLE CONNECTIONS

Heat treated for strength and durability.

SPAX® is a brand of
ALTENLOH, BRINCK & CO. US, INC.
2105 County Rd. 12C
Bryan, OH 43506, USA
(419) 630-2490
info@spax.us
www.spax.us

LIMITED LIFETIME WARRANTY

Visit www.spax.us/resources/warranty for more information.

MADE IN USA WITH GLOBALLY SOURCED MATERIALS

PART NO. 3581820700760
SIZE: 1/4" X 3"

7 12216 02040 5