

**SPAX**<sup>®</sup>**DO IT ONCE. DO IT RIGHT.<sup>™</sup>**

# POWERLAGS<sup>™</sup>

FOR LOG HOME & TIMBER FRAME CONSTRUCTION

## POWERLAGS<sup>™</sup>

SPAX<sup>®</sup> PowerLags<sup>™</sup> bring a new level of fastening efficiency and reliability to log home and timber frame construction. Engineered specifically for these demanding wood-to-wood structural applications, SPAX PowerLags feature patented thread serrations that eliminate pre-drilling and dramatically increase installation speed. SPAX PowerLags are also code listed and load rated, so you can be assured of the reliability of the assembly. Available in two head styles for job matched performance and aesthetics.

## PRODUCT FEATURES

- › No pre-drilling required
- › Code listings ICC-ES ESR-1782
- › Low profile, large diameter head designs provide exceptional draw down of even rogue logs.
- › Deep T-Star Drive provides superior bit engagement and allows for easy backout of the fastener if necessary when the head is countersunk.
- › Proprietary coating provides excellent corrosion resistance and prevents staining wet logs.
- › Fastener length stamp on the head provides convenient identification without measuring and aids on-site inspections.
- › German engineered thread technology; American made.
- › Job-site friendly and weather-resistant packaging.




### XTM312 SERIES


T-Star Pancake Head

### XWL312 SERIES

T-Star Washer Head

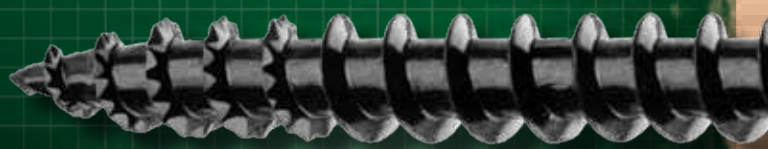


The Pancake Head of the XTM Series offers the ultimate in flush or countersunk installation to help ensure a tight connection between logs.



The low-profile Washer Head of the XWL Series offers a cleaner look than hex head fasteners in exposed applications.

## THREAD SERRATIONS



Patented thread serrations require up to 40% less driving torque to increase installation speed, while helping to prevent cracking in logs.







## ALLOWABLE STEEL STRENGTH

Bending Yield Strength: 150,000 psi

Determined in accordance with ASTM F 1575 using minor thread diameter when fastener is tested in a threaded location.

Tensile Strength: 1,459 lbf

Shear Strength: 920 lbf

Determined in accordance with NASM I312-20 when fastener is tested in the transition (shank to thread) location.

\* Extrapolation to specific gravities greater than 0.67 or less than 0.31 is not permitted.

Allowable loads for XWL312 and XTM312 are based on ICC-ES Code Report ESR-1782.

This filer is effective until November 30, 2013, and reflects information available as of December 1, 2010. This information is updated periodically and should not be relied upon after November 30, 2013; contact Altenloh, Brinck & Company U.S. Inc. for current information and limited warranty or see [www.trufast.com](http://www.trufast.com).

Use of SPAX wood construction fastener in wood with a moisture content exceeding 19%, either at time of fabrication or in service, is outside the scope of ICC-ES Code Report ESR-1782.

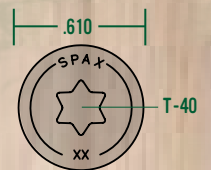
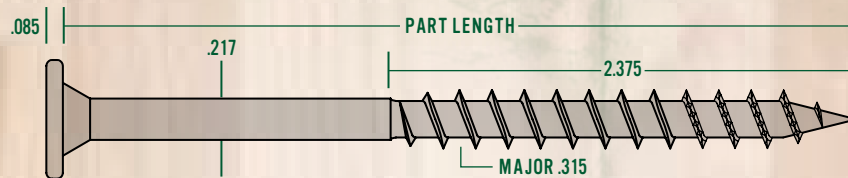
## PERFORMANCE SPECIFICATIONS

WOOD GRAVITIES	WITHDRAWAL* (lbf/in.)	PULL-THROUGH* (lbf) XTM312 SERIES	PULL-THROUGH* (lbf) XWL312 SERIES
0.67	388	739	996
0.55	295	649	770
0.50	259	572	676
0.46	230	496	601
0.43	210	432	544
0.36	164	257	413
0.31	133	115	319

Fastener performance tested and evaluated to ICC AC233 criteria.

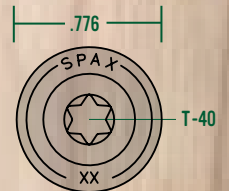
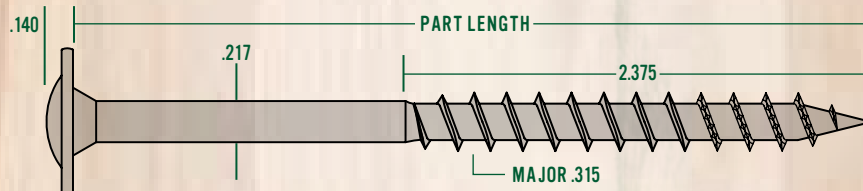
### XTM312 SERIES

Pancake Head



### XWL312 SERIES

Washer Head



## PRODUCT SELECTION & ORDERING INFORMATION

IN.	LENGTH		XTM312 SERIES PANCAKE HEAD	XWL312 SERIES WASHER HEAD	PKG. QTY./TYPE	PALLET QTY.
	IN.	MM				
6		152.4	XTM312-6000	XWL312-6000	250 / Pail	20,000
7		177.8	XTM312-7000	XWL312-7000	250 / Pail	20,000
8		203.2	XTM312-8000	XWL312-8000	250 / Pail	20,000
9		228.6	XTM312-9000	XWL312-9000	250 / Pail	15,000
10		254.0	XTM312-10000	XWL312-10000	250 / Pail	15,000
11		279.4	XTM312-11000	XWL312-11000	250 / Pail	15,000
12		304.8	XTM312-12000	XWL312-12000	250 / Pail	15,000
13		330.2	XTM312-13000	XWL312-13000	250 / Pail	7,500
14		355.6	XTM312-14000	XWL312-14000	250 / Pail	7,500
15		381.0	XTM312-15000	XWL312-15000	250 / Carton	7,500
16		406.4	XTM312-16000	XWL312-16000	250 / Carton	7,500

NOTE: One (1) T-40 Driver Bit included in each package.



**ALTENLOH, BRINCK & CO. U.S., INC.**

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