



DO IT ONCE. DO IT RIGHT.™



SPAX POWERLAGS®

The high-performance, low-cost replacement for the conventional lag



SPAX® PowerLags®

SAY GOODBYE TO THE CONVENTIONAL LAG

PRODUCT FEATURES

SPAX PowerLags® offer the largest selection of code-recognized structural wood-to-wood fasteners in the industry. Featuring SPAX patented thread technology, they require no pre-drilling, and drive faster and easier than conventional lags and other structural screws.

- Code listings ICC-ES No. ESR-1782
- Technical Evaluation Report – DrJ TER – No. I711-01 (deck ledger attachment)
- Heat treated to Grade 5 durability
- Available in 1/4", 5/16", 3/8" and 1/2" diameters in lengths up to 12"
- Patented thread serrations require up to 40% less driving torque to increase installation speed while helping prevent cracking in logs
- Built-on washer head designs eliminate the need and extra cost of a separate washer
- Fastener length stamp on the head provides convenient identification without measuring and aids on-site inspections
- Sold in job-friendly package quantities, including Bulk Pails



Deck Ledger Attachment

BUILT-ON WASHER:

Head design eliminates need for a separate washer.

Available HCR® Coating is ICC-ES Code Recognized for use in treated lumber and exterior exposure condition 3 (general construction).

★★ NO ★★
PRE-DRILLING

PATENTED SERRATIONS:

Require up to 40% less driving torque.

NO PRE-DRILLING:

Allows for faster, easier installation.



HEX WASHER HEAD

Provides maximum driver engagement, especially when using larger diameter/longer length parts in harder wood species.

(Shown with zinc coating for interior use.)

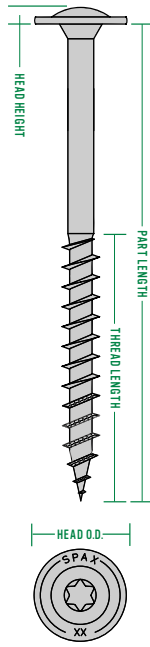


T-STAR WASHER HEAD

Offers a low-profile option for outstanding clamping force with improved aesthetics.

(Shown with yellow zinc coating for interior use.)

T-STAR WASHER HEAD POWERLAGS®

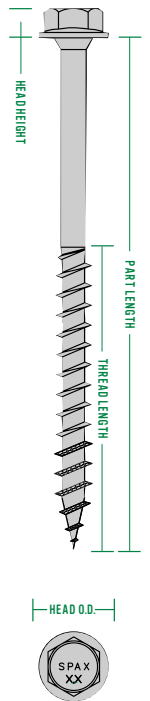


PRODUCT SELECTION & SPECIFICATIONS					PART NUMBERS – YELLOW ZINC				PART NUMBERS – TREATED LUMBER/EXTERNAL APPLICATIONS			
DIA. X LENGTH	DRIVE BIT	THREAD LENGTH	HEAD HEIGHT	HEAD O.D.	CONTRACTOR PACK	YELLOW ZINC	BULK PAIL	YELLOW ZINC	CONTRACTOR PACK	HCR COATING	BULK PAIL	HCR COATING
1/4 x 2-1/2"	T-30	1.540"	0.097"	0.697"	50	4581020700635	500	3581020700630	50	4581820700635	500	3581820700630
1/4 x 3"	T-30	1.790"	0.097"	0.697"	50	4581020700765	500	3581020700760	50	4581820700765	500	3581820700760
1/4 x 3-1/2"	T-30	1.960"	0.097"	0.697"	50	4581020700905	500	3581020700900	50	4581820700905	500	3581820700900
1/4 x 4"	T-30	2.335"	0.097"	0.697"	50	4581020701005	500	3581020701000	50	4581820701005	500	3581820701000
1/4 x 4-1/2"	T-30	2.585"	0.097"	0.697"	50	4581020701555	500	3581020701550	50	4581820701555	500	3581820701550
1/4 x 5"	T-30	2.585"	0.097"	0.697"	50	4581020701275	500	3581020701270	50	4581820701275	500	3581820701270
1/4 x 6"	T-30	2.585"	0.097"	0.697"	50	4581020701525	500	3581020701520	50	4581820701525	500	3581820701520
5/16 x 3"	T-40	1.650"	0.140"	0.776"	50	4581020800765	250	3581020800760	50	4581820800765	250	3581820800760
5/16 x 3-1/2"	T-40	2.050"	0.140"	0.776"	50	4581020800905	250	3581020800900	50	4581820800905	250	3581820800900
5/16 x 4"	T-40	2.245"	0.140"	0.776"	50	4581020801005	250	3581020801000	50	4581820801005	250	3581820801000
5/16 x 4-1/2"	T-40	2.755"	0.140"	0.776"	50	4581020801155	250	3581020801150	50	4581820801155	250	3581820801150
5/16 x 5"	T-40	2.375"	0.140"	0.776"	-	-	-	-	50	4581820801275	250	3581820801270
5/16 x 6"	T-40	2.375"	0.140"	0.776"	-	-	-	-	50	4581820801525	250	3581820801520
5/16 x 8"	T-40	2.375"	0.140"	0.776"	-	-	-	-	50	4581820802035	150	3581820802030
5/16 x 10"	T-40	2.375"	0.140"	0.776"	-	-	-	-	25	4581820802545	150	3581820802540
5/16 x 12"	T-40	2.375"	0.140"	0.776"	-	-	-	-	25	4581820803045	150	3581820803040
3/8 x 5"	T-50	3.150"	0.155"	0.987"	25	4581021001275	150	3581021001270	25	4581821001275	150	3581821001270
3/8 x 6"	T-50	3.150"	0.155"	0.970"	25	4581021001525	150	3581021001520	25	4581821001525	150	3581821001520
3/8 x 8"	T-50	3.150"	0.155"	0.970"	-	-	150	3581021002030	-	-	150	3581821002030
3/8 x 10"	T-50	3.150"	0.155"	0.970"	-	-	150	3581021002540	-	-	150	3581821002540

*NOTE: HCR® (High Corrosion Resistant) Coating is for exterior use and in treated lumber.

Now available in new sizes.

HEX WASHER HEAD POWERLAGS®



PRODUCT SELECTION & SPECIFICATIONS					PART NUMBERS – ZINC				PART NUMBERS – TREATED LUMBER/EXTERNAL APPLICATIONS			
DIA. X LENGTH	HEX SIZE	THREAD LENGTH	HEAD HEIGHT	HEAD O.D.	CONTRACTOR PACK	ZINC	BULK PAIL	ZINC	CONTRACTOR PACK	HCR COATING	BULK PAIL	HCR COATING
1/4 x 2"	3/8"	1.770"	0.200"	0.545"	50	4571010700505	500	3571010700500	50	4571820700505	500	3571820700500
1/4 x 3"	3/8"	2.360"	0.200"	0.545"	50	4571010700755	500	3571010700750	50	4571820700755	500	3571820700750
1/4 x 3-1/2"	3/8"	2.360"	0.200"	0.545"	50	4571010700905	500	3571010700900	50	-	500	-
1/4 x 4"	3/8"	2.375"	0.200"	0.545"	50	4571010701005	500	3571010701000	50	-	500	-
1/4 x 4-1/2"	3/8"	2.375"	0.200"	0.545"	50	4571010701155	500	3571010701150	50	-	500	-
1/4 x 5"	3/8"	2.375"	0.200"	0.545"	50	4571010701275	500	3571010701270	50	-	500	-
1/4 x 6"	3/8"	2.375"	0.200"	0.545"	50	4571010701525	500	3571010701520	50	4571820701525	500	3571820701520
5/16 x 3"	7/16"	2.360"	0.250"	0.590"	50	4571010800755	250	3571010800750	50	4571820800755	250	3571820800750
5/16 x 3-1/2"	7/16"	3.110"	0.250"	0.590"	50	-	250	-	50	4571820800905	250	3571820800900
5/16 x 4"	7/16"	3.110"	0.250"	0.590"	50	4571010801005	250	3571010801000	50	4571820801005	250	3571820801000
5/16 x 5"	7/16"	2.375"	0.250"	0.590"	-	-	-	-	50	4571820801275	250	3571820801270
3/8 x 5"	1/2"	3.150"	0.310"	0.750"	25	4571011001275	150	3571011001270	25	4571821001275	150	3571821001270
3/8 x 6"	1/2"	3.150"	0.310"	0.750"	25	4571011001525	150	3571011001520	25	4571821001525	150	3571821001520
3/8 x 8"	1/2"	3.150"	0.310"	0.750"	25	-	150	3571011002030	25	-	150	-
1/2 x 5"	5/8"	3.150"	0.400"	0.860"	25	4571011201275	100	3571011201270	25	4571821201275	100	3571821201270
1/2 x 6"	5/8"	3.150"	0.400"	0.860"	25	4571011201525	100	3571011201520	25	4571821201525	100	3571821201520
1/2 x 8"	5/8"	3.150"	0.400"	0.860"	-	-	100	3571011202030	-	-	100	3571821202030
1/2 x 10"	5/8"	3.150"	0.400"	0.860"	-	-	100	3571011202540	-	-	100	3571821202540
1/2 x 12"	5/8"	3.150"	0.400"	0.860"	-	-	100	-	-	-	100	3571821203040

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SPAX® PowerLags®

HIGH PERFORMANCE HIGH VALUE

THE LARGEST SELECTION OF CODE-RECOGNIZED STRUCTURAL WOOD-TO-WOOD FASTENERS IN THE INDUSTRY.

SPAX PowerLags offer an unparalleled level of fastening efficiency, reliability and value for structural wood assemblies and heavy carpentry. Available in two head styles, four diameters, lengths up to 12", and coating systems that include use in treated lumber, you can be sure you'll have the right fastener for the application. PowerLags' patented thread technology makes installation faster and easier, with connections that are building code recognized. Why settle for conventional lags or structural lag screws with limited selection and narrow application? Compare the performance and value of American-made SPAX PowerLags.

SPAX® PowerLags® are sold in project-friendly packaging quantities that help minimize your building material costs: by the piece, 25 or 50 count Contractor Packs, and Bulk Pails (by special order). Refer to the Product Selection Charts included in this brochure for the current available offering of Contractor Packs and Bulk Pails.



PERFORMANCE SPECIFICATIONS

Per ICC-ES Report No. ESR-1782

ALLOWABLE STEEL STRENGTH			ALLOWABLE WITHDRAWAL (W) AND HEAD PULL-THROUGH (P) DESIGN VALUES ^{1,2,3,4,5}					
DIAMETER	TENSILE STRENGTH (lbs.)	SHEAR STRENGTH (lbs.)	SOUTHERN PINE		DOUGLAS-FIR		HEM-FIR & SPRUCE-PINE-FIR	
			WITHDRAWAL (lbs./in.)	HEAD PULL-THROUGH (lbs.)	WITHDRAWAL (lbs./in.)	HEAD PULL-THROUGH (lbs.)	WITHDRAWAL (lbs./in.)	HEAD PULL-THROUGH (lbs.)
1/4"	1,169	766	278	559	255	483	212	376
5/16"	1,459	920	295	602	259	495	210	375
3/8"	2,402	1,435	361	787	317	643	254	484
1/2"	3,404	2,394	392	946	345	807	279	627

1 Main and side member must be wood having a minimum specific gravity of 0.55 for Southern Pine, 0.50 for Douglas-Fir, and 0.43 for Hem-Fir and Spruce-Pine-Fir.

2 Reference withdrawal and head pull-through design values must be multiplied by all applicable adjustment factors in accordance with Section 10.3 of the NDS.

3 Reference withdrawal design values are to be multiplied by the length of thread penetration into the side grain of the main member. Length includes tip.

4 Values for withdrawal design values are from the main member, and head pull-through design values are based on a minimum 1-1/2" side member thickness.

5 Reference head pull-through design values are based on the lesser value for Hex Washer Head or T-Star Washer Head styles.

NOTE: When comparing published performance data of comparable structural fasteners, one should pay close attention that the load capacities are shown as either "allowable" or "ultimate" values to ensure an accurate comparison. For your convenience, the performance specifications listed in the chart above are the "allowable load" that can be applied to determine the acceptable working load for the respective diameter SPAX PowerLag. These values are calculated by applying a safety factor to the "average ultimate load capacity" obtained from laboratory testing.



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SPAX® is a brand of ALTENLOH, BRINCK & CO. of Ennepetal, Germany, founded in 1823. Today, the SPAX brand represents a broad selection of engineered fasteners for the construction and automotive industries, and symbolizes the highest quality fastening solutions. It's one of the most recognized brands in Europe!

SPAX fasteners are sold nationwide through leading home improvement centers, hardware and fastener distribution chains, and in a growing number of lumber and building material dealers.



SINCE 1823

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MADE IN U.S.A.

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