

# Hex Washer Head HCR<sup>®</sup>

POWERLAGS<sup>®</sup>



EXTERIOR

## DESCRIPTION

SPAX<sup>®</sup> Hex Washer Head construction fasteners with HCR<sup>®</sup> coating are intended for wood-to-wood connections in exterior structural applications when attaching treated lumber components. These fasteners are designed with a hex head conventional driver system along with a built-on washer for applications requiring additional surface area under the head for superior pull-down force. Ideal for deck ledger attachment. Often used for blind, high torque applications where you need additional engagement from a socket to screw head.

## MATERIALS & COATING

Cold-rolled “carbon steel” wire heat treated and plated with an HCR<sup>®</sup> (High Corrosion Resistance) double barrier coating. “HCR” is tested and recognized for use in ground contact pressure treated lumber for exterior, freshwater general construction applications (e.g., AWWA UC1-UC4A, UCFA).



### 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.



TER No. 1912-07  
Structural Wood  
Fastener Properties

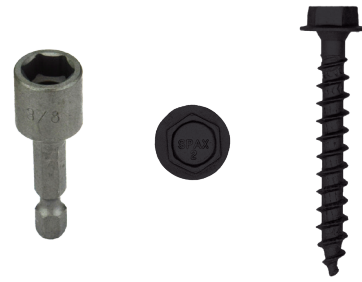
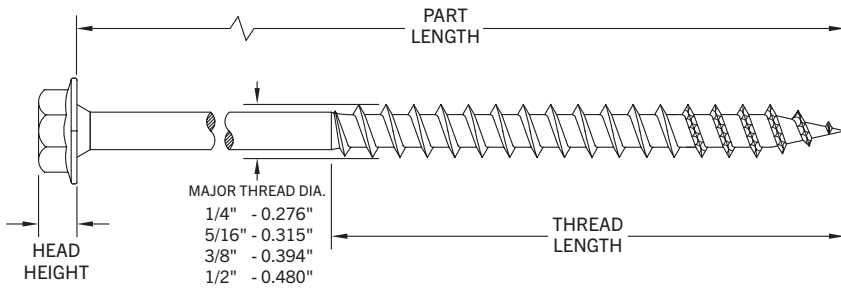


## TYPICAL EXTERIOR APPLICATIONS

- Deck ledger to residential band joist attachment
- Exterior treated lumber pergolas & gazebos
- Landscaping timber
- Outdoor furniture
- Exterior fencing posts
- Exterior out buildings

# Hex Washer Head HCR®

POWERLAGS®



EXTERIOR

## PRODUCT SELECTION



TER No. 1711-01  
Deck Ledger Attachment  
(see pg. 99)

PART LENGTH	THREAD LENGTH	HEAD DIA. HEAD HT.	DRIVE/BIT SIZE	APPROX. QTY.	PKG. TYPE	MASTER QTY.	PART NO.
1/4" x 1-1/2"	Full	0.545" 0.210"	3/8"	1	Individual*	50	4571820700407
				12	Project Pax®	5	45718207004043
				500	Bulk Pail	N/A	3571820700400
1/4" x 2"	1.770"	0.545" 0.210"	3/8"	1	Individual*	50	4571820700507
				12	Project Pax®	5	45718207005043
				50	Contractor Pax®	4	4571820700505
				500	Bulk Pail	N/A	3571820700500
1/4" x 3"	2.360"	0.545" 0.210"	3/8"	1	Individual*	50	4571820700757
				12	Project Pax®	5	45718207007543
				50	Contractor Pax®	4	4571820700755
				500	Bulk Pail	N/A	3571820700750
1/4" x 5"	2.375"	0.545" 0.210"	3/8"	1	Individual*	50	4571820701277
				12	Project Pax®	5	45718207012743
				50	Contractor Pax®	4	4571820701275
				500	Bulk Pail	N/A	3571820701270
1/4" x 6"	2.375"	0.545" 0.210"	3/8"	1	Individual*	50	4571820701527
				12	Project Pax®	5	45718207015243
				50	Contractor Pax®	4	4571820701525
				500	Bulk Pail	N/A	3571820701520
5/16" x 3"	2.360"	0.591" 0.248"	7/16"	1	Individual*	25	4571820800757
				50	Contractor Pax®	4	4571820800755
				250	Bulk Pail	N/A	3571820800750
5/16" x 3-1/2"	2.993"	0.591" 0.248"	7/16"	1	Individual*	25	4571820800907
				50	Contractor Pax®	4	4571820800905
				250	Bulk Pail	N/A	3571820800900
5/16" x 4" ▲	2.993"	0.591" 0.248"	7/16"	1	Individual*	25	4571820801007
				12	Project Pax™	5	45718208010043
				50	Contractor Pax®	4	4571820801005
				250	Bulk Pail	N/A	3571820801000

\* Bit not included.

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(see pg. 99)

PART LENGTH	THREAD LENGTH	HEAD DIA. HEAD HT.	DRIVE/BIT SIZE	APPROX. QTY.	PKG. TYPE	MASTER QTY.	PART NO.
5/16" x 5" ▲	2.375"	0.591" 0.248"	7/16"	1	Individual*	25	4571820801277
				12	Project Pax®	5	45718208012743
				50	Contractor Pax®	4	4571820801275
				250	Bulk Pail	N/A	3571820801270
3/8" x 5"	3.150"	0.748" 0.307"	1/2"	1	Individual*	15	4571820101277
				25	Contractor Pax®	4	4571821001275
				150	Bulk Pail*	N/A	3571821001270
3/8" x 6"	3.150"	0.748" 0.307"	1/2"	1	Individual*	15	4571820101527
				25	Contractor Pax®	4	4571821001525
				150	Bulk Pail*	N/A	3571821001520
1/2" x 5"	3.150"	0.858" 0.394"	5/8"	1	Individual*	10	4571820121277
				25	Contractor Pax®	4	4571821201275
				100	Bulk Pail*	N/A	3571821201270
1/2" x 6"	3.150"	0.858" 0.394"	5/8"	25	Contractor Pax®	4	4571821201525
				100	Bulk Pail*	N/A	3571821201520
1/2" x 8"	3.150"	0.858" 0.394"	5/8"	1	Individual*	10	4571820122037
				100	Bulk Pail*	N/A	3571821202030
1/2" x 10"	3.150"	0.858" 0.394"	5/8"	1	Individual*	10	4571820122547
				100	Bulk Pail*	N/A	3571821202540
1/2" x 12"	3.150"	0.858" 0.394"	5/8"	100	Bulk Pail*	N/A	3571821203040

NOTE: 3/8" fasteners require 0.172" pilot hole. 1/2" fasteners require 0.203" pilot hole.  
\* Bit not included.



Individual



Project Pax®



Contractor Pax®



Bulk Pail



Hex Driver Bit



TER No. 1711-01  
Deck Ledger Attachment  
(see pg. 99)

### FASTENER LENGTHS

PART LENGTH	HEAD	FASTENER	PART LENGTH	HEAD	FASTENER
1/4" x 1-1/2"			5/16" x 5" ▲		
1/4" x 2"			3/8" x 5"		
1/4" x 3"			3/8" x 6"		
1/4" x 5"			1/2" x 5"		
1/4" x 6"			1/2" x 6"		
5/16" x 3"			1/2" x 8"		
5/16" x 3-1/2"			1/2" x 10"		
5/16" x 4" ▲			1/2" x 12"		

EXTERIOR

### PERFORMANCE SPECIFICATIONS



TER No. 1912-07  
Structural Wood Fastener Properties

DIAMETER	LENGTH	ALLOWABLE WITHDRAWAL (W), HEAD PULL-THROUGH (W <sub>H</sub> ), LATERAL SHEAR PARALLEL TO GRAIN (Z <sub>  </sub> ), AND LATERAL SHEAR PERPENDICULAR TO GRAIN (Z <sub>⊥</sub> ) VALUES <sup>1,2,3,4,5,6,7</sup>											
		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 <sub>H</sub> )	Z <sub>  </sub>	Z <sub>⊥</sub>	(W)	(W <sub>H</sub> )	Z <sub>  </sub>	Z <sub>⊥</sub>	(W)	(W <sub>H</sub> )	Z <sub>  </sub>	Z <sub>⊥</sub>
		(lbs./inch)	(lbs.)	(lb.)	(lb.)	(lbs./inch)	(lbs.)	(lb.)	(lb.)	(lbs./inch)	(lbs.)	(lb.)	(lb.)
1/4"	< 3"	375	700	305	285	310	640	265	235	245	455	250	225
	3.5"			390	370			360	340			315	285
	ALL OTHER LENGTHS			400	370			360	335			350	310
5/16"	< 3"	415	755	340	305	300	680	310	280	250	500	265	230
	3.5"			400	380			360	340			325	300
	ALL OTHER LENGTHS			440	405			405	375			380	355
3/8"	ALL	465	985	530	485	300	825	475	440	280	575	445	405
1/2"	ALL	445	1185	585	475	275	970	550	400	275	865	500	370

<sup>1</sup> "Withdrawal", "Head Pull-Through", and "Lateral Shear" design values shall be adjusted by all applicable adjustment factors per NDS Table 11.3.1.  
<sup>2</sup> "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.  
<sup>3</sup> "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.  
<sup>4</sup> 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.  
<sup>5</sup> 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.  
<sup>6</sup> 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.  
<sup>7</sup> 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.