

### DESCRIPTION

SPAX® Hex Washer Head construction fasteners with zinc coating are intended for wood-to-wood connections in interior structural applications. These fasteners are designed with a hex head conventional driver system along with a built in washer for applications requiring additional surface area under the head for superior pull-down force. Often used for blind, high torque applications where you need additional engagement between socket and head.

### MATERIALS & COATING

Cold-rolled “carbon steel” wire, heat treated to grade 5 durability and plated with a zinc finish to prevent red rust. “Clear zinc” is tested and recognized for use in untreated and above ground contact pressure treated lumber for interior dry/damp general construction applications (e.g. AWPA UC1-UC2).



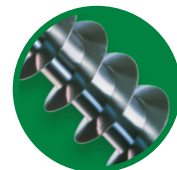
#### Built-on Washer Head

Eliminates the need and cost of a separate washer.



#### Patented Serrations

Allow for quicker, easier fastening.  
\*40% lower driving torque.



#### Reliable Connections

Heat treated to Grade 5 durability.



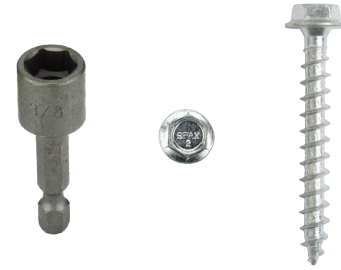
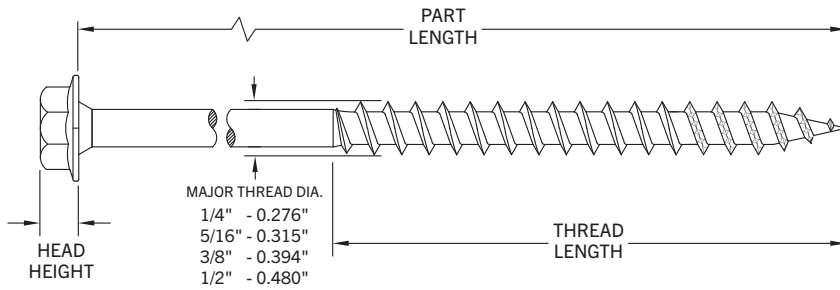
TER No. 1912-07  
Structural Wood  
Fastener Properties

INTERIOR



### TYPICAL INTERIOR APPLICATIONS

- Wall mount TV
- Stair landings and framing
- Shelving
- Hex drive is very common in the household tool box making it simpler to drive with a power tool or hand ratchet.
- Specific fixtures like metal channel requiring a lag but with limited space for the head.



### PRODUCT SELECTION

PART LENGTH	THREAD LENGTH	HEAD DIA. HEAD HT.	DRIVE/BIT SIZE	APPROX. QTY.	PKG. TYPE	MASTER QTY.	PART NO.
1/4" x 2"	1.770"	0.545" 0.210"	3/8"	1	Individual*	50	4571010700507
				50	Contractor Pax®	4	4571010700505
				500	Bulk Pail	N/A	3571010700500
1/4" x 3"	2.360"	0.545" 0.210"	3/8"	1	Individual*	50	4571010700757
				50	Contractor Pax®	4	4571010700755
				500	Bulk Pail	N/A	3571010700750
1/4" x 3-1/2"	2.360"	0.545" 0.210"	3/8"	1	Individual*	50	4571010700907
				50	Contractor Pax®	4	4571010700905
				500	Bulk Pail	N/A	3571010700900
1/4" x 4"	2.375"	0.545" 0.210"	3/8"	1	Individual*	50	4571010701007
				50	Contractor Pax®	4	4571010701005
				500	Bulk Pail	N/A	3571010701000
1/4" x 4-1/2"	2.375"	0.545" 0.210"	3/8"	1	Individual*	50	4571010701157
				50	Contractor Pax®	4	4571010701155
				500	Bulk Pail	N/A	3571010701150
1/4" x 5"	2.375"	0.545" 0.210"	3/8"	1	Individual*	50	4571010701277
				50	Contractor Pax®	4	4571010701275
				500	Bulk Pail	N/A	3571010701270
1/4" x 6"	2.375"	0.545" 0.210"	3/8"	1	Individual*	50	4571010701527
				50	Contractor Pax®	4	4571010701525
				500	Bulk Pail	N/A	3571010701520
5/16" x 3"	2.360"	0.591" 0.248"	7/16"	50	Contractor Pax®	4	4571010800755
				250	Bulk Pail	N/A	3571010800750
5/16" x 4"	2.993"	0.591" 0.248"	7/16"	1	Individual*	25	4571010801007
				50	Contractor Pax®	4	4571010801005
				250	Bulk Pail	N/A	3571010801000
3/8" x 5"	3.150"	0.748" 0.307"	1/2"	1	Individual*	15	4571010101277
				25	Contractor Pax®*	4	4571011001275
				150	Bulk Pail*	N/A	3571011001270

\* Bit not included.

### PRODUCT SELECTION

PART LENGTH	THREAD LENGTH	HEAD DIA. HEAD HT.	DRIVE/BIT SIZE	APPROX. QTY.	PKG. TYPE	MASTER QTY.	PART NO.
3/8" x 6"	3.150"	0.748" 0.307"	1/2"	1	Individual*	15	4571010101527
				25	Contractor Pax®	4	4571011001525
				150	Bulk Pail*	N/A	3571011001520
3/8" x 8"	3.150"	0.748" 0.307"	1/2"	1	Individual*	15	4571010102037
				150	Bulk Pail*	N/A	3571011002030
1/2" x 5"	3.150"	0.858" 0.394"	5/8"	1	Individual*	10	4571010121277
				25	Contractor Pax®	4	4571011201275
				100	Bulk Pail*	N/A	3571011201270
1/2" x 6"	3.150"	0.858" 0.394"	5/8"	1	Individual*	10	4571010121527
				25	Contractor Pax®	4	4571011201525
				100	Bulk Pail*	N/A	3571011201520
1/2" x 8"	3.150"	0.858" 0.394"	5/8"	100	Bulk Pail*	N/A	3571011202030
1/2" x 10"	3.150"	0.858" 0.394"	5/8"	100	Bulk Pail*	N/A	3571011202540

NOTE: 3/8" fasteners require 0.175" pilot hole. 1/2" fasteners require 0.200" pilot hole.

\* Bit not included.



Individual



Contractor Pax®



Bulk Pail



Hex Driver Bit

### FASTENER LENGTHS

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

## PERFORMANCE SPECIFICATIONS



TER No. 1912-07

Structural Wood Fastener Properties

DIAMETER	LENGTH	ALLOWABLE WITHDRAWAL (W), HEAD PULL-THROUGH ( $W_H$ ), LATERAL SHEAR PARALLEL TO GRAIN ( $Z_{  }$ ), AND LATERAL SHEAR PERPENDICULAR TO GRAIN ( $Z_{\perp}$ ) 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)	( $W_H$ )	$Z_{  }$	$Z_{\perp}$	(W)	( $W_H$ )	$Z_{  }$	$Z_{\perp}$	(W)	( $W_H$ )	$Z_{  }$	$Z_{\perp}$
		(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.