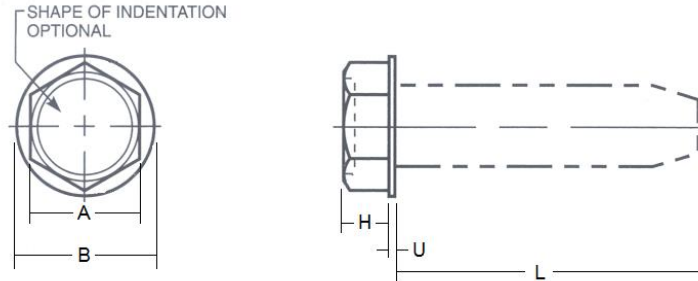
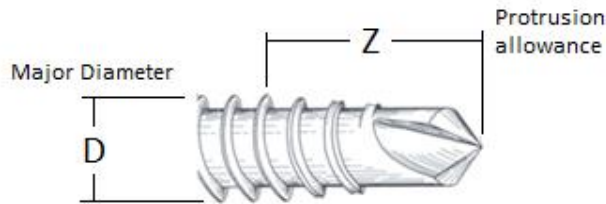


Self-Drilling Screws, Hex Washer Head, BSD Thread, Zinc

This product standard contains the required dimensional, mechanical, performance, and chemical characteristics of the products shown in this purchase order (as applicable to the product). Unless specified below, current revisions of national or international standards shall be applicable as of the date of Fastenal's purchase order and must be adhered to in their entirety. If the order received does not meet these requirements, corrective action may be issued which could jeopardize your status as an approved supplier to Fastenal.



Nominal Size	A		H		B		U	
	Width Across Flats		Head Height		Washer Diameter		Washer Thickness	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
#4	0.188	0.181	0.060	0.049	0.243	0.225	0.019	0.011
#6	0.250	0.244	0.093	0.080	0.328	0.302	0.025	0.015
#8	0.250	0.244	0.110	0.096	0.348	0.322	0.031	0.019
#10	0.312	0.305	0.120	0.105	0.414	0.384	0.031	0.019
#12	0.312	0.305	0.155	0.139	0.432	0.398	0.039	0.022
1/4 (#14)	0.375	0.367	0.190	0.172	0.520	0.480	0.050	0.030
5/16	0.500	0.489	0.230	0.208	0.676	0.624	0.055	0.035
3/8	0.562	0.551	0.295	0.270	0.780	0.720	0.063	0.037



RECORD OF REVISION CHANGES TO THIS DOCUMENT ARE LOCATED ON THE LAST PAGE

Nominal Size	Type BSD						Point Diameter	
	Threads per Inch	D		Minor Diameter		Z		
		Major Diameter	Minor Diameter	Max.	Min.	Ref.	Max.	Min.
#4	24	.114	.110	.086	.082	.163	.091	.087
#6	20	.139	.135	.104	.099	.190	.116	.110
#8	18	.166	.161	.122	.116	.211	.136	.130
#10	16	.189	.183	.141	.135	.300	.156	.150
#12	14	.215	.209	.164	.157	.353	.183	.177
1/4 (#14)	14	.246	.240	.192	.185	.393	.222	.217
5/16	12	.314	.305	.244	.236	.421	.274	.268
3/8	12	.380	.370	.308	.298	-	.338	.330

Length Tolerance	
Nominal Screw Length	Tolerance
Up to 3/4", inclusive	-0.03
Over 3/4" to 1-1/2", inclusive	-0.05
Over 1-1/2"	-0.06

5/16 Test Performance				
Test Plate	Axial Loading	Drill Speed	Time to Drive	Torsion
Inch	lbs	RPM	sec max	lb-in min
0.063	44.974	1800	5.0	289.5

Torsion is per SAE J78 Type B

Specification Requirements:

- Dimensions: ASME B18.6.3
SAE J78
Fully Threaded
- Drive Style: Hex
- Material, Mechanical & Performance: #4 - 1/4": SAE J78;
3/8" shall have the same performance as #14;
5/16": See above
- Thread Requirements: SAE J78
- Point Size: Sizes 4 to 8: #2
Sizes 10 to 3/8": #3
**Exception: Screws 1/2" in length and under shall have a #2 point
- Finish: Fe/Zn 3AN per ASTM F1941/F1941M

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Date: January 10, 2019	<i>FASTENAL</i>	SDS.HW.BSD.Z

- Hydrogen Embrittlement:**

Baking to relieve internal hydrogen embrittlement is mandatory and shall be performed after electroplating prior to the application of conversion finish where baking temperatures can damage the conversion film. Baking may be allowed after conversion finish provided temperature does not alter performance. Part temperature shall reach 375°F to 400°F (190°C to 204°C) for a minimum of 4 hours, as soon as practical after plating. Hydrogen Embrittlement test results shall be maintained and supplied to Fastenal upon request.

Revision Level Changes to this Document

Document Name	Revision Level	Revision Date	Rationale for Revision
SDS.HW.BSD.Z	03	1/10/2019	Revised dimensional table.

The rationale above may not include all of the changes within each revision. A complete review of the Fastenal Product Standard is required.