

Hexagon Flange Self-Drilling Screw with Washer

Execution Standard: ISO 15480

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1. PRODUCT DESCRIPTION

Hexagon flange self-drilling screw with washer, designed for rapid assembly of metal-to-metal and metal-to-wood connections without pre-drilling. The integrated washer provides a larger bearing surface and sealing capability, while the hexagon head allows high torque transmission. Typical applications include sheet metal fabrication, roofing, cladding, and automotive assembly.

2. STANDARD DIMENSIONAL REFERENCE

NOT TO SCALE

PRODUCT IMAGE



3. PRODUCT IDENTIFICATION

Material / Property Classgalvanized carbon steel

4. STANDARD PROFILE

REFERENCE VALUES

Execution Standard	ISO 15480
Edition	2019
Product Scope	This document specifies the characteristics of hexagon washer head drilling screws with tapping screw threads, made of steel, with thread sizes ST2,9 to ST6,3, and with product grade A.
Thread Series	ISO metric coarse pitch
Diameter Range (d)	ST2.9 - ST6.3
Configured Nominal Length Series (L)	9.5–50 mm · 10 configured nominal lengths

5. STANDARD / DECLARED REQUIREMENTS

Surface FinishZinc plating

Dimensional values follow the selected execution standard. Material properties and batch test results are included only when declared or supported by the applicable certificate or test report.

6. SURFACE TREATMENT

Zinc plating

7. DIMENSIONAL DATA (MM)											d diameter · P pitch · s across flats · e across corners · k head height					
d Diameter · Pitch mm · mm	P	a Thread Runout (max) · mm	c Washer Height (min) · mm	dk Head diameter · mm	dc Bearing diameter · mm	dc Bearing diameter · mm	e (min) Across corners · mm	k Head height · mm	k Head height · mm	kw Wrenching Height (min) · mm	r1 Radius (min) · mm	r2 Radius (max) · mm	s (max) Across flats · mm	s (max) Across flats · mm	Drilling Capacity (min) · mm	Drilling Capacity (max) · mm
ST2.9	1.1	1.1	0.4	3.5	6.3	5.8	4.28	2.8	2.5	1.3	0.1	0.2	4	3.82	0.7	1.9
ST3.5	1.3	1.3	0.6	4.1	8.3	7.6	5.96	3.4	3	1.5	0.1	0.25	5.5	5.32	0.7	2.25
ST4.2	1.4	1.4	0.8	4.9	8.8	8.1	7.59	4.1	3.6	1.8	0.2	0.3	7	6.78	1.75	3
ST4.8	1.6	1.6	0.9	5.6	10.5	9.8	8.71	4.3	3.8	2.2	0.2	0.3	8	7.78	1.75	4.4
ST5.5	1.8	1.8	1	6.3	11	10	8.71	5.4	4.8	2.7	0.25	0.4	8	7.78	1.75	5.25
ST6.3	1.8	1.8	1	7.3	13.5	12.2	10.95	5.9	5.3	3.1	0.25	0.5	10	9.78	2	6