

Material Specification

Material: High Corrosion Resistant Stainless Steel, UNS S30400 (Type SS 304 or A2) load bearing part of screw (shank and head) fused with hardened carbon steel drill point
Washer: SS 304 bonded to 3mm Non-conductive Grey EPDM washer.



Size: \varnothing # 12 (5.5 mm) X L		Drilling Capacity, mm													
	Ultimate Tensile Breaking Load, kgf [kN]	Thread Type BSD, 14 TPI				Thread Type CSD, 24 TPI									
	1176 [11.5]	6 mm				6 mm									
	Torsion Strength, Nm	L, mm	20	25	28	60	80	120	130	150	175				
	10.9	Clamp Thickness, mm	0-4	0-8	0-10	10-38	30-58	65-95	75-108	100-125	125-50				
	Single Shear Load, kgf [kN]	Drill Point Length, mm													
	806 [7.9]	8-9 mm													
	¹ Pull Out Load, kN														
	Thickness of Steel member not in contact with head or washer, ga (mm)														
	20 (0.912)	18 (1.214)	16 (1.519)	14 (1.897)	12 (2.657)	10 (3.416)	8 (4.176)	5 (5.314)	1.92	2.55	3.20	3.99	5.59	7.19	8.79
	² Pull Over Load, kN														
	Thickness of Steel member in contact with head or washer, ga (mm)														
	Washer or Head Dia	26 (0.455)	25 (0.531)	24 (0.607)	22 (0.759)	20 (0.912)	18 (1.214)	16 mm	4.91	5.73	6.56	8.20	9.85	11.0	
	19 mm	5.84	6.81	7.78	9.73	11.0	-								

These data are the results of laboratory testing conducted in controlled laboratory environment and conditions. The technical parameters are of ultimate designation. The data tabulated are minimum and/or average values.

¹ Note:

- The Values are based on test sheet of Tensile strength of member not in contact with head or washer, $F_u = 450$ MPa. For Steel with $F_u=350$ MPa, multiply values by 0.78 For Steel with $F_u=310$ MPa, multiply values by 0.68.
- Pull out Load values based upon calculations done in accordance with Section E4 of the AISI S100.
- Load values are based upon testing conducted in accordance with AISI S905. These data are the results of laboratory testing conducted in controlled laboratory environment and conditions.
- AISI S100 recommends a safety factor $\Omega = 3.0$ be applied for ASD, a factor $\Phi = 0.5$ be applied for LRFD design or a factor $\Phi = 0.4$ be applied for LSD design.

² Note:

- The Values are based on test sheet of Tensile strength of member in contact with head or washer, $F_u = 450$ MPa. For Steel with $F_u=350$ MPa, multiply values by 0.78 For Steel with $F_u=310$ MPa, multiply values by 0.68.
- Pull over Load values based upon calculations done in accordance with Section E4 of the AISI S100.
- Load values are based upon testing conducted in accordance with AISI S905. These data are the results of laboratory testing conducted in controlled laboratory environment and conditions.
- AISI S100 recommends a safety factor $\Omega = 3.0$ be applied for ASD, a factor $\Phi = 0.5$ be applied for LRFD design or a factor $\Phi = 0.4$ be applied for LSD design.

Application: Fastening of corrugated steel or Aluminum sheet to substrate steel structure.

Fastening of side lap joints by using 20 or 25 mm long screws.

