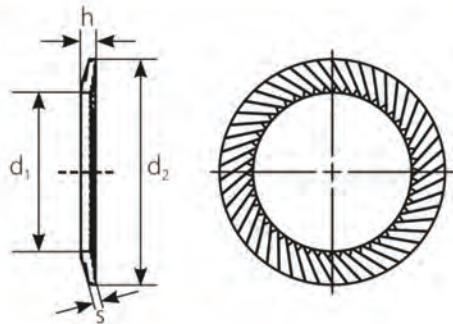


SERRATED SAFETY WASHERS



Designation of an original SCHNORR® Safety Washer type „S“:

d_1 = Inner diameter
 d_2 = Outer diameter
 s = Thickness
 h_{max} = Maximum dimension as delivered
 h_{min} = Minimum dimension after load test

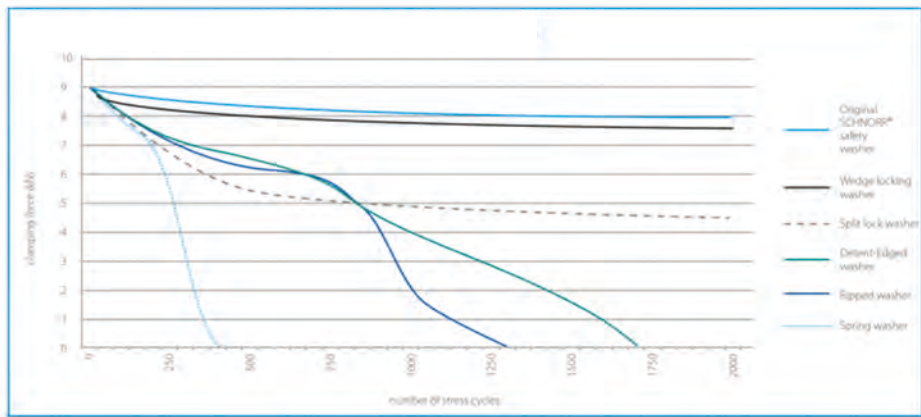
Nominal size	Tightening torque M_k in Nm $\mu_k = \mu_{ic} = 0,14$	
	Strength grade	
	8,8	10,9
M4	3,6	5,3
M5	7,2	10,5
M6	12,4	18,2
M7	20,6	30,3
M8	30,0	44,1
M10	59,4	86,9
M12	102,3	150,7
M14	162,8	239,8
M16	253,0	371,8
M18	361,9	515,9
M20	510,4	727,1
M22	697,4	994,4
M24	877,8	1249,6
M27	1293,6	1841,4
M30	1756,7	2501,4
M33	2377,1	3385,8
M36	3055,8	4352,7

	Type S	Type VS
Screw Sizes	M 1,6 to M 36	M 5 to M 30
Property Classes	up to 8.8	8.8 to 10.9
Standard Materials	C60S (1.1211) X5CrNi18-10 (1.4301)	C60S (1.1211) X5CrNi18-10 (1.4301)
Standard Surfaces (C60S)	blackened Gal. Zn8 + passivation Zn8M + passivation	blackened Zn8M + passivation
Tolerances	h14/H14 acc. to DIN 286-2	h14/H14 acc. to DIN 286-2

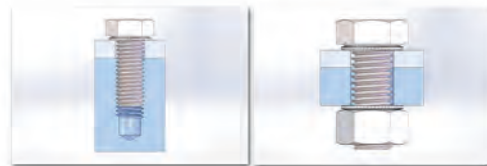


SERRATED SAFETY WASHERS

JUNKER TEST RESULTS



CORRECT USAGE



SINGLE

DOUBLE SIDED

INCORRECT USAGE



WITH A FLAT WASHER

STACKED

UPSIDE DOWN