

# TIGHTENING TORQUES FOR ORIGINAL SCHNORR<sup>®</sup> SAFTEY WASHERS BLACKENED

Nominal Size	Tightening Torque $M_A$ in Nm for $\mu_K = \mu_G = 0,14$			
	Typ S		Typ VS	
	Strength grade			
	5.8	8.8	10.9	12.9
M4	1,7	3,6	5,3	6,2
M5	3,3	7,2	10,5	12,3
M6	5,7	12,4	18,2	21,2
M7	-	20,6	30,3	35,4
M8	13,9	30,0	44,1	51,6
M10	27,8	59,4	86,9	102,3
M12	47,3	102,3	150,7	176,0
M14	75,9	162,8	239,8	280,5
M16	117,7	253,0	371,8	434,5
M18	162,8	361,9	515,9	603,9
M20	229,9	510,4	727,1	850,3
M22	310,2	697,4	994,4	1162,7
M24	394,9	877,8	1249,6	1461,9
M27	583,0	1293,6	1841,4	2154,9
M30	790,9	1756,7	2501,4	2928,2
M33	1072,5	2377,1	3385,8	3961,1
M36	1378,3	3055,8	4352,7	5094,1

The table applies to set screws with metric standard thread according to DIN ISO 262, head dimensions of hexagon screws according to DIN EN ISO 4014-4018, screws with hexalobular socket according to DIN 34800, as well as socket head screws according to DIN EN ISO 4762 and „medium“ bore according to DIN EN 20273.

**All specifications are non-binding approximate values!**

# TIGHTENING TORQUES FOR ORIGINAL SCHNORR<sup>®</sup> SAFETY WASHERS MECHANICALLY GALVANIZED & ZINC LAMELLAR SYSTEMS

Tightening Torque  $M_A$  in Nm for für  $\mu_K = \mu_G = 0,10$

Nominal Size	Typ S		Typ VS	
	Strength grade			
	5.8	8.8	10.9	12.9
M4	1,3	2,9	4,3	5,0
M5	2,6	5,7	8,4	9,8
M6	4,5	9,9	14,5	16,9
M7	-	16,3	23,9	27,9
M8	11,0	23,8	35,0	40,9
M10	22,1	47,3	69,3	80,3
M12	37,4	80,3	118,8	138,6
M14	60,5	128,7	189,2	221,1
M16	92,4	198,0	290,4	339,9
M18	128,7	284,9	405,9	475,2
M20	180,4	399,6	568,7	665,5
M22	242,0	544,5	774,4	906,4
M24	310,2	687,5	979,0	1145,1
M27	455,4	1006,5	1434,4	1678,6
M30	619,3	1370,6	1952,5	2284,7
M33	836,0	1846,9	2631,2	3078,9
M36	1076,9	2380,4	3390,2	3967,7

The table applies to set screws with metric standard thread according to DIN ISO 262, head dimensions of hexagon screws according to DIN EN ISO 4014-4018, screws with hexalobular socket according to DIN 34800, as well as socket head screws according to DIN EN ISO 4762 and „medium“ bore according to DIN EN 20273.

**All specifications are non-binding approximate values!**

# TIGHTENING TORQUES FOR ORIGINAL SCHNORR<sup>®</sup> SAFETY WASHERS CORROSION RESISTANT

Tightening Torque  $M_A$  in Nm for  $\mu_K = \mu_G = 0,20$

Nominal Size	Typ S			Typ VS		
	Strength grade					
	50	70	80	50	70	80
M3	1,1	1,2	1,8			
M4	1,4	2,9	3,9			
M5	2,6	5,6	7,6			
M6	4,5	9,7	13,0			
M8	11,1	23,5	31,6			
M10	22,3	48,4	63,8			
M12	38,3	81,4	110,0			
M14	61,6	130,9	174,9			
M16	94,6	201,3	269,5			
M18	134,2	286,0	380,6			
M20	190,3	407,0	543,4			
M22	249,7	536,8	715,0			
M24	312,4	668,8	891,0			
M27	463,1	-	-			
M30	628,1	-	-			
M33	856,9	-	-			
M36	1097,8	-	-			

The table applies to set screws with metric standard thread according to DIN ISO 262, head dimensions of hexagon screws according to DIN EN ISO 4014-4018, screws with hexalobular socket according to DIN 34800, as well as socket head screws according to DIN EN ISO 4762 and „medium“ bore according to DIN EN 20273 made of A2/A4.

**All specifications are non-binding approximate values!**