

Pull out Strength & Torque



Pull-Out Strength [kN]

Material: Mild Steel St37								
Material Thickness 1.0 to 5.0 mm								
Material Thickness (mm)	M4	M5	M6	M8	M10	M12	M16	M20
1.0	6 k	10 k						
1.5		13 k	16 k					
2.0	9 k	15 k	17 k	27 k				
3.0			24 k	42 k	53 k	72 k	97 k	142 k
				37 l	52 l	67 l	88 l	
4.0				45 k	72 k	91 k	105k	162 k
				45 l	68 l	86 l	115l	
5.0						101 k	141 l	> 200 k
						106 l		

k = Short Flowdrill

l = Long Flowdrill

Material: Stainless Steel X5CrNi1810						
Material Thickness 1.5 to 3.0 mm						
(mm)	M6		M8		M10	
Ø	5.4	5.5	7.3	7.4	9.2	9.3
1.5	24	20	24	23		
2.0	*	*	38	32	50	42
3.0	*	*		44	70	64

12.9mm diameter screw failed before the thread

Material: Aluminum AlMgSi0,5			
Material Thickness 1.5 to 3.0 mm			
(mm)	M6	M8	M10
1.5	3.8	5.4	
2.0	5.6	9.2	11.0
3.0	9.5	11.4	14.6

Note: 1 kN = 101 Kg 14 kN = 1.430 Kg

Torque (Nm)

Material: Steel St37							
(mm)	M4	M5	M6	M8	M10	M12	M16
1.0	5	8					
1.5		11	17				
2.0	9	13	20	28			
3.0			27	50	66	136	197
4.0				67	98	163	
5.0						269	