

TAB FG CONCRETE BOLT

Features:

- Through fixing
- Rapid Installation
- Hardened Steel with Mechanical Galvanised Plating, minimum 15/20um
- Fire tested class A1 resistant

Benefits:

- Quick and simple installation
- One anchor for concrete from C20/25 to C50/60
- Adjustable fixture thickness
- Removable for use with temporary structures



Product Range

TAB FG Concrete Screw

Product Code	Major Thread Diameter	Anchor Length	Drill Hole Diameter	Drill Hole Depth		Maximum Fixture Thickness	Fixture Clearance Hole	Hex Head
	d	L	d ₀	h _{nom} mm		t _{fix}	d _f	A/F
	mm	mm	mm	Shallow	Deep	mm	mm	mm
TAB06050FG	8	50	6	40	50	10/-	10	10
TAB06075FG		75				45/30		
TAB06100FG		100				70/55		
TAB08060FG	10	60	8	55	75	20/-	12	13
TAB08075FG		75				35/15		
TAB08100FG		100				65/40		
TAB08130FG		130				90/70		
TAB10060FG	12	60	10	70	95	10/-	14	17
TAB10075FG		75				25/-		
TAB10100FG		100				50/25		
TAB10125FG		125				75/50		
TAB10150FG		150				100/75		
TAB12075FG	14	75	12	85	115	15/-	16	19
TAB12100FG		100				40/10		
TAB12120FG		120				60/30		
TAB12130FG		130				70/40		
TAB12150FG		150				100/75		
TAB14100FG	16	100	14	100	125	30/5	18	21
TAB14130FG		130				60/35		
TAB14150FG		150				80/55		
TAB16100FG	18	100	16	110	145	20/-	20	23
TAB16150FG		150				70/35		
TAB16200FG		200				120/85		

Installation Data

Drill Size			6mm	8mm	10mm	12mm	14mm	16mm
Nominal Anchorage Depth (deep)	h _{nom}	[mm]	45	60	75	90	95	115
Effectice Anchorage Depth	h _{eff}	[mm]	30	40	50	60	70	80
Minimum Concrete Thickness	h _{min}	[mm]	100	120	125	140	170	190
Minimum Spacing	s _{min}	[mm]	40	50	75	85	130	200
Minimum Edge Distance	c _{min}	[mm]	40	50	75	85	130	200
Maximum Impact Wrench Torque	T _{max}	[Nm]	200	300	400	500	600	800
Design Spacing - Tension	Scr,N,ucr	[mm]	80	110	150	170	200	230
Design Edge Spacing - Tension	Ccr,N,ucr	[Nm]	40	55	75	85	100	120



Trutek Impact Sockets available for all diameters

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LOAD DATA

Characteristics Resistance

Anchor Diameter			M6	M8	M10	M12
Non-Cracked Concrete						
N _{Rk}		[kN]	6.8	7.3	11.3	22.2
V _{Rk}		[kN]	20.5	49.3	57.8	70.9

Design Resistance

Anchor Diameter			M6	M8	M10	M12
Non-Cracked Concrete						
N _{Rd}		[kN]	3.2	3.4	5.2	10.3
V _{Rd}		[kN]	14.6	35.1	41.2	50.5

Recommended Resistance

Anchor Diameter			M6	M8	M10	M12
Non-Cracked Concrete						
N _{rec}		[kN]	2.3	2.4	3.7	7.4
V _{rec}		[kN]	8.1	19.5	22.8	28.0

Includes Partial Safety Factor $\gamma = 1.4$ in the absence of national regulations and type of loading

Data is for Static and Quasi Static Loads for a single anchor

⁽¹⁾ Not applicable

Increasing Concrete Factors

Anchor Diameter			M6	M8	M10	M12
Ψ _c C30/37	[-]		1.17			1.22
Ψ _c C40/45	[-]		1.32			1.41
Ψ _c C50/60	[-]		1.42			1.55

When using increasing factors care must be taken not to exceed steel limits