

TAB FG / TAB FZ CONCRETE BOLT

Features:

- Through fixing
- Rapid Installation
- Hardened steel with min 5µm zinc plating (FG)
- Hardened steel Mechanically Galvanized (FZ)
- 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



Concrete Ranges:	C20/C25 according to EN 206:2013+A1:2016
Certification:	ETA 25/0663 Issued 19/05/2026

Product Range

				Reduced Embedment		Standard Embedment		Fixture Clearance Hole	Hex Head
Product Code		Thread Diameter	Anchor Length	Drill Hole Diameter	Drill Hole Depth	Maximum Fixture Thickness	Drill Hole Depth	Maximum Fixture Thickness	
Mechanical Galvanised	Zinc Plated	d	L	d _o	h _{nom}	t _{fix}	h _{nom}	t _{fix}	d _f
		mm	mm	mm	mm	mm	mm	mm	mm
TAB06050FG	TAB06050FZ	8	50	6	40	20	65	-	10
TAB06075FG	TAB06075FZ		75			45		20	
TAB06100FG	TAB06100FZ		100			70		45	
TAB08060FG	TAB08060FZ	10	60	8	50	20	75	-	13
TAB08075FG	TAB08075FZ		75			35		10	
TAB08100FG	TAB08100FZ		100			60		35	
TAB08130FG	TAB08130FZ		130			90		65	
TAB10060FG	TAB10060FZ	12	60	10	60	10	85	-	15
TAB10075FG	TAB10075FZ		75			25		-	
TAB10100FG	TAB10100FZ		100			50		25	
TAB10125FG	TAB10125FZ		125			75		50	
TAB10150FG	TAB10150FZ		150			100		75	
TAB12075FG	TAB12075FZ	14	75	12	70	20	100	-	17
TAB12100FG	TAB12100FZ		100			45		10	
TAB12120FG	TAB12120FZ		120			65		30	
TAB12130FG	TAB12130FZ		130			75		40	
TAB12150FG	TAB12150FZ		150			95		60	
TAB14100FG	TAB14100FZ	16	100	14	80	40	110	-	19
TAB14130FG	TAB14130FZ		130			70		25	
TAB14150FG	TAB14150FZ		150			90		45	
TAB16105FG	TAB16105FZ	18	105	16	-	5	120	-	21
TAB16150FG	TAB16150FZ		150			50		-	
TAB16200FG	TAB16200FZ		200			100		-	

INSTALLATION DATA

Reduced Embedment

Anchor Diameter			M6	M8	M10	M12	M14	M16
Nominal Anchorage Depth	h_{nom}	[mm]	30	40	50	55	60	100
Effectice Anchorage Depth	h_{eff}	[mm]	18	25	31	32	35	70
Minimum Concrete Thickness	h_{min}	[mm]	100	100	100	110	120	200
Minimum Spacing	s_{min}	[mm]	50	50	60	70	80	150
Minimum Edge Distance	c_{min}	[mm]	50	50	100	100	100	150
Setting Torque	T_{inst}	[Nm]	10	20	30	50	60	70
Design Spacing Spacing- Tension	$S_{cr,N,ucr}$	[mm]	55	75	85	90	100	200
Design Edge Distance - Tension	$C_{cr,N,ucr}$	[mm]	50	85	100	105	100	170
Design Edge Distance - Shear	$C_{cr,V,ucr}$	[mm]	50	55	100	100	100	285

Standard Embedment

Nominal Anchorage Depth	h_{nom}	[mm]	55	65	75	90	105	-
Effectice Anchorage Depth	h_{eff}	[mm]	43	50	56	67	80	-
Minimum Concrete Thickness	h_{min}	[mm]	110	130	150	180	210	-
Minimum Spacing	s_{min}	[mm]	90	90	90	90	110	-
Minimum Edge Distance	c_{min}	[mm]	90	90	160	160	170	-
Setting Torque	T_{inst}	[Nm]	10	20	30	50	60	-
Design Spacing Spacing- Tension	$S_{cr,N,ucr}$	[mm]	115	145	160	190	160	-
Design Edge Distance - Tension	$C_{cr,N,ucr}$	[mm]	105	115	160	195	210	-
Design Edge Distance - Shear	$C_{cr,V,ucr}$	[mm]	90	100	160	160	200	-

For reductions in Spacing and Edge Distance refer to DesignFix for calculations

LOAD DATA

Reduced Embedment Depth

Anchor Diameter			M6	M8	M10	M12	M14	M16
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Characteristics Resistance

N_{Rk}		[kN]	3.5	6.0	8.0	8.5	10.0	28
V_{Rk}		[kN]	3.7	6.1	8.5	8.9	10.2	57.6

Design Resistance

N_{Rd}		[kN]	1.9	3.3	4.4	4.7	6.6	15.5
V_{Rd}		[kN]	2.5	4.1	5.6	5.9	6.8	38.4

Recommended Resistance

N_{rec}		[kN]	1.4	2.4	3.1	3.4	4.7	11.0714
V_{rec}		[kN]	1.8	2.9	4.0	4.2	4.9	27.4286

Standard Embedment Depth

Anchor Diameter			M6	M8	M10	M12	M14	M16
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Characteristics Resistance

N_{Rk}		[kN]	13.8	17.0	20.0	26.0	35.0	-
V_{Rk}		[kN]	6.1	15.4	17.5	22.8	42.2	-

Design Resistance

N_{Rd}		[kN]	7.7	9.4	11.1	14.4	19.4	-
V_{Rd}		[kN]	4.0	10.2	11.6	15.1	27.9	-

Recommended Resistance

N_{rec}		[kN]	5.5	6.7	7.9	10.3	13.9	-
V_{rec}		[kN]	2.9	7.3	8.3	10.8	19.9	-

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

INCREASING CONCRETE FACTORS

Anchor Diameter		M6	M8	M10	M12	M14	M16
Ψc C30/37	[-]	1.11	1.05	1.03	1.08	1.09	1.06
Ψc C40/50	[-]	1.20	1.09	1.05	1.15	1.16	1.11
Ψc C50/60	[-]	1.26	1.12	1.06	1.19	1.2	1.14

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

STEEL LIMITS

			M6	M8	M10	M12	M14	M16
Tensile	$N_{Rk,s}$	[kN]	17.4	31.7	50.3	71.9	95.9	126.7
Partial Safety Factor	γ_{MsN}	[-]	1.81					
Shear - without lever arm	$V_{Rk,s}$	[kN]	6.1	15.4	17.5	22.8	42.2	63.3
Ductility factor	k_7	[-]	0.8					
Shear - with lever arm	$M^0_{Rk,s}$	[Nm]	15.0	37.0	73.0	125.0	193.0	293.0
Partial Safety Factor	γ_{MsV}	[-]	1.51					

Trutek Impact Sockets available for all diameters

