

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 29/10/2025

Product Range

Product Range					Reduced Embedment		Standard Embedment			
Product Code		Thread Diameter	Anchor Length	Drill Hole Diameter	Drill Hole Depth	Maximum Fixture Thickness	Drill Hole Depth	Maximum Fixture Thickness	Fixture Clearance Hole	Hex Head
Mechanical Galvanised	Zinc Plated	d	L	d _o	h _{nom}	t _{fix}	h _{nom}	t _{fix}	d _f	A/F
		mm	mm	mm	mm	mm	mm	mm	mm	mm
TAB06050FG	TAB06050FZ	8	50	6	40	20	65	-	10	10
TAB06075FG	TAB06075FZ		75			45		20		
TAB06100FG	TAB06100FZ		100			70		45		
TAB08060FG	TAB08060FZ	10	60	8	50	20	75	-	13	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	17
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	19
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	21
TAB14130FG	TAB14130FZ		130			70		25		
TAB14150FG	TAB14150FZ		150			90		45		

INSTALLATION DATA

Reduced Embedment

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

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]	130	145	160	180	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
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Characteristics Resistance

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

Design Resistance

N_{Rd}		[kN]	2.1	3.3	4.4	4.7	5.5
V_{Rd}		[kN]	2.5	4.1	5.6	5.9	6.8

Recommended Resistance

N_{rec}		[kN]	1.5	2.4	3.1	3.4	3.9
V_{rec}		[kN]	1.8	2.9	4.0	4.2	4.9

Standard Embedment Depth

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

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

STEEL LIMITS

Anchor Diameter			M6	M8	M10	M12	M14
Tensile	$N_{Rk,S}$	[kN]	17.4	31.7	50.3	71.9	95.9
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
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
Partial Safety Factor	γ_{MsV}	[-]	1.51				

Trutek Impact Sockets available for all diameters

