

TAB F CONCRETE BOLT

Features:

- Through fixing
- Approved for non-cracked concrete
- Rapid Installation
- Hardened Steel with Zinc Plating, minimum 5um
- 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: European technical assessment 21/0150

Product Range

TAB F Concrete Screw

Product Code	Thread Diameter	Anchor Length	Drill Hole Diameter	Drill Hole Depth	Maximum Fixture Thickness	Fixture Clearance Hole	Hex Head
	d	L	d _o	h _{nom}	t _{fix}	d _f	A/F
	mm	mm	mm	mm	mm	mm	mm
TAB08060F	10	60	8	50	20	12	12
TAB08075F		75			35		
TAB08100F		100			60		
TAB10060F	12	60	10	60	10	14	14
TAB10075F		75			25		
TAB10100F		100			50		
TAB10125F		125			75		
TAB10140F		140			90		
TAB10150F		150			100		
TAB12075F	14	75	12	70	20	16	17
TAB12100F		100			45		
TAB12120F		120			65		
TAB12130F		130			75		
TAB12150F		150			95		

Installation Data

Thread Diameter			10mm	12mm	14mm
Nominal Anchorage Depth	h _{nom}	[mm]	40	50	55
Effective Anchorage Depth	h _{eff}	[mm]	25	31	32
Minimum Concrete Thickness	h _{min}	[mm]	120	130	140
Minimum Spacing	s _{min}	[mm]	50	60	70
Minimum Edge Distance	c _{min}	[mm]	50	100	100
Installation moment	SIW 22-A (Max 200Nm) ¹				
Maximum tightening torque	T _{inst}	[Nm]	40	60	80
Non-cracked concrete					
Design Spacing Spacing- Tension	S _{cr,N,ucr}	[mm]	50	60	95
Design Spacing Spacing- Shear	S _{cr,V,ucr}	[mm]	76	95	95
Design Edge Distance - Tension	C _{cr,N,ucr}	[mm]	50	100	100
Design Edge Distance - Shear	C _{cr,V,ucr}	[mm]	50	100	100

For reductions in Spacing and Edge Distance refer to DesignFix for calculations 1

¹ A suitable impact wrench with a maximum torque of 200Nm may be used

Load Data

Characteristics Resistance

Thread Diameter			10mm	12mm	14mm
Non-Cracked Concrete					
N_{Rk}		[kN]	5.0	6.5	9.1
V_{Rk}		[kN]	6.3	8.7	9.1

Design Resistance

Thread Diameter			10mm	12mm	14mm
Non-Cracked Concrete					
N_{Rd}		[kN]	2.7	3.6	5.0
V_{Rd}		[kN]	4.2	5.8	6.0

Recommended Resistance

Thread Diameter			10mm	12mm	14mm
Non-Cracked Concrete					
N_{rec}		[kN]	1.9	2.6	3.6
V_{rec}		[kN]	3.0	4.1	4.3

Increasing Concrete Factors

Anchor Diameter			10mm	12mm	14mm
All concrete strengths (max C50/60)		[-]	1.17	1.37	1.52

Steel Limits

Characteristic Steel limits			10mm	12mm	14mm
Tensile	$N_{Rk,s}$	[kN]	45.3	73.7	108.0
Partial Safety Factor	γ_{MsN}	[-]	1.4		
Shear - without lever arm	$V_{Rk,s}$	[kN]	10.0	17.0	30.0
Shear - with lever arm	$M^0_{Rk,s}$	[Nm]	50.0	100.0	185.0
Partial Safety Factor	γ_{MsV}	[-]	1.5		

