PRODUCT DATA

Tygabolt[®] Sleeve Anchor - 316 Stainless

The **Tygabolt**[®] is a fully-assembled single unit wedge-type anchors used in solid concrete applications. Fixing is achieved by controlled torquing of the nut which draws the cone section up in the sleeve, thereby expanding it outward and forcing the Tygabolt[®] against the sidewall of the pre-drilled hole.

Applications

- · Hand rail fastening
- · Form-work support fastening
- · Mechanical, electrical and pipe bracket fastening

Material A4 316 Stainless								
Finish 316 Stainless								
Part	QFind	Diam	Length	Pack Qty				
		(mm)	(mm)					
MTB16PM0650035	MTB100	6.5	35	100				
MTB16PM0650055	MTB101	6.5	55	100				
MTB16PM080040	MTB102	8.0	40	100				
MTB16PM080060	MTB103	8.0	60	50				
MTB16PM080080	MTB104	8.0	80	50				
MTB16PM100050	MTB105	10.0	50	50				
MTB16PM100075	MTB106	10.0	75	50				
MTB16PM100100	MTB107	10.0	100	25				
MTB16PM120060	MTB108	12.0	60	25				
MTB16PM120080	MTB109	12.0	80	25				
MTB16PM120100	MTB110	12.0	100	20				

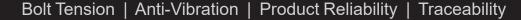


Features

- Suitable for light to medium duty loads
- Quick and easy to install
- Immediate loading is possible
- Expansion claws that prevent rotation during tightening
- Cold formed cone for efficient expansion of the sleeve



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Installation Guide

Size	Thread Size	Hole	Minimum Depth	Hole on Fixture	Torque Guide	Wrench Size	Flange Head Diameter	Minimum Concrete Thickness	Minimum Spacing	Minimum Edge Distance
	D	d _h (mm)	h _{e min} (mm)	d _{fix} (mm)	T _{inst} (N-m)	AF (mm)	d _w (mm)	h _{min} (mm)	S _{min} (mm)	C _{min} (mm)
M5 x 6.5	M5	6.5	25	8	5	8	10.9	75	50	50
M6 x 8	M6	8.0	40	10	8	10	12.8	100	50	50
M8 x 10	M8	10.0	50	12	25	13	16.8	100	60	60
M10 x 12	M10	12.0	60	14	40	15	20.3	100	75	75

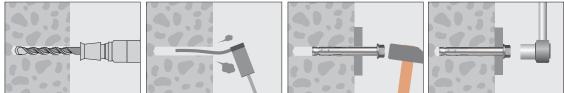
Basic Load Performance in 32 MPa non-cracked concrete

¹ Design Resistance is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Strength reduction of ϕ = 0.60 for concrete and ϕ =0.80 for steel are already included.

² Working Load is the governing minimum allowed load obtained by comparing relevant concrete and steel working loads. Factor of safety FOS = 2.5 for steel and FOS = 3.0 concrete are already included.

Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²		Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h _e (mm)	ø N _d (kN)	N _{WLL} (kN)			h _e (mm)	c ₁ (mm)	ø V _d (kN)	V _{WLL} (kN)
ø6.5 (M5)	25	3.6	2.0				50	2.2	1.1
	30	4.5	2.2	ø6.5 (M5)	40	60	2.2	1.1	
	40	4.5	2.2			70	2.2	1.1	
ø8 (M6)	40	6.4	3.2				50	3.2	1.6
	60	6.4	3.2	ø8 (M6)	50	60	3.2	1.6	
	80	6.4	3.2			80	3.2	1.6	
ø10 (M8)	60	11.7	5.8	ø10 (M8)	60	60	5.8	2.9	
	80	11.7	5.8			80	5.8	2.9	
	100	11.7	5.8			100	5.8	2.9	
ø12 (M10)	70	17.5	9.2	ø12 (M10)		75	9.2	4.6	
	90	18.5	9.2		ø12 (M10)	70	90	9.2	4.6
	120	18.5	9.2			120	9.2	4.6	

Installation



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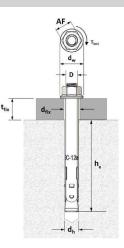
Bolt Tension | Anti-Vibration | Product Reliability | Traceability



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