





PRODUCT DATA

Tygabolt® Flush Head Sleeve Anchor - 316 Stainless

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

Applications				
<ul style="list-style-type: none"> • Hand rail fastening • External furniture fixing • Mechanical, electrical and pipe bracket fastening 				
Material		316 Stainless		
Finish		316 Stainless		
Part	QFind	Diam (mm)	Length (mm)	Pack Qty
MTH16PM080045	MTH100	8	45	100
MTH16PM080070	MTH101	8	70	50
MTH16PM080090	MTH102	8	90	50
MTH16PM100045	MTH103	10	45	50
MTH16PM100060	MTH104	10	60	50
MTH16PM100075	MTH105	10	75	50
MTH16PM100095	MTH106	10	95	25
MTH16PM120075	MTH107	12	75	25



Features

- Suitable for light to medium duty loads
- Quick and easy to install
- Immediate loading is possible
- 316 stainless for high corrosion resistance

TYgaBolt®

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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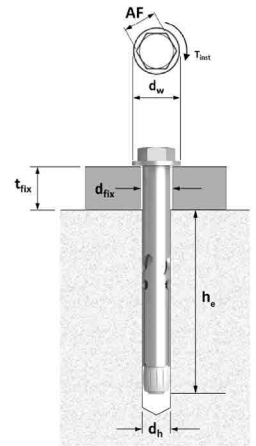
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Installation Guide

Size	Thread Size	Hole	Minimum Depth	Hole on Fixture	Torque Guide	Wrench Size	Washer OD	Minimum Concrete Thickness	Minimum Spacing	Minimum Edge Distance
(mm)	D	d _h (mm)	h _{o min} (mm)	d _{fix} (mm)	T _{inst} (N-m)	AF (mm)	d _w (mm)	h _{min} (mm)	S _{min} (mm)	C _{min} (mm)
8	M6	8	40	10	8	10	12.8	100	50	50
10	M8	10	50	12	25	13	16.8	100	60	60
12	M10	12	60	14	40	15	20.3	100	75	75



Basic Load Performance in 32 MPa non-cracked concrete

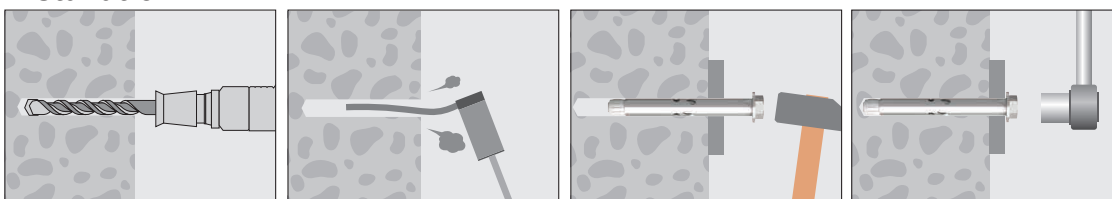
¹ *Design Resistance* is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Strength reduction of $\phi = 0.60$ for concrete and $\phi = 0.80$ for steel are already included.

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.

Thread Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²
	h _o (mm)	ø N _d (kN)	N _{WLL} (kN)
ø8 (M6)	40	8.4	4.6
	60	8.4	5.6
	80	8.4	5.6
ø10 (M8)	40	8.4	4.6
	70	13.0	10.2
	90	13.0	10.2
ø12 (M10)	50	11.7	6.5
	75	21.6	12.0
	100	32.4	16.2

Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h _o (mm)	c ₁ (mm)	ø V _d (kN)	V _{WLL} (kN)
ø8 (M6)	50	50	6.2	2.0
		60	8.2	2.7
		80	8.4	3.3
ø10 (M8)	60	60	9.3	3.1
		80	14.3	4.7
		100	15.3	6.1
ø12 (M10)	70	75	14.4	4.8
		90	18.9	6.3
		120	24.3	9.7

Installation



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