PRODUCT DATA

HOBSON ENGINEERING

## Tygabolt® Eye Sleeve Anchor - Zinc Yellow Passivate

The **Tygabolt® Eye** is a pre-assembled single unit wedge-type anchor used in solid concrete applications. Fixing is achieved by controlled torquing of the eye 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
• Tie-down points
• Ceiling and partitioning
• Cables and tie wires

Material	CS	Carbon Steel

Finish	ZYP	Zinc Yellow Passivate

Part	QFind	Diam	Length	Pack Qty
		(mm)	(mm)	
MTEMSYM080045	**MTE100**	8.0	45	100
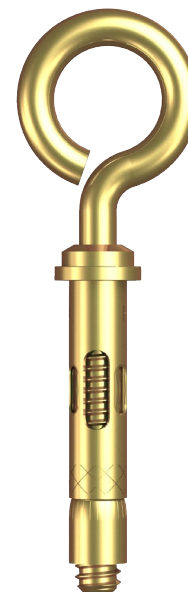
Features

- Suitable for light duty loads
- Quick and easy to install
- 10mm eyelet

Installation
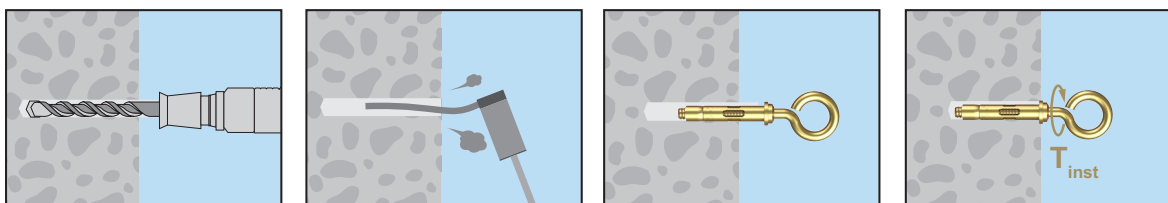
T_{inst}

TYgaBolt®

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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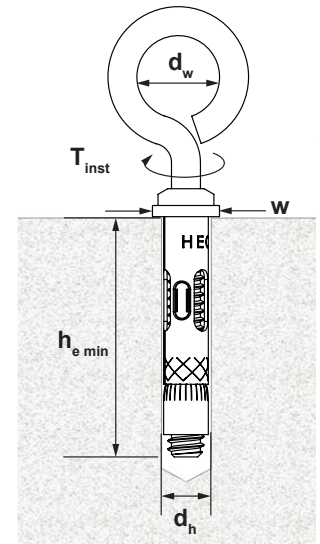201130DS

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Installation Guide

Tygabolt® Size	Thread Size	Hole	Minimum Depth	Torque Guide	Head Diameter	Eyelet Diameter	Minimum Concrete Thickness	Minimum Spacing	Minimum Edge Distance
d_h (mm)	D	d_h (mm)	$h_{e\ min}$ (mm)	T_{inst} (N-m)	w (mm)	d_w (mm)	h_{min} (mm)	S_{min} (mm)	C_{min} (mm)
8	M6	8.0	45	8	10	10	100	50	50

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.

	Anchor Eye			Anchor Body	
Size	Embedment Depth	Design Tensile Resistance[1]	Working Load in Tension[2]	Design Tensile Resistance[1]	Working Load in Tension[2]
	h_e (mm)	$\emptyset N_d$ (kN)	N_{WLL} (kN)	$\emptyset N_d$ (kN)	N_{WLL} (kN)
ø8 (M6)	40	1.7	0.8	6.4	3.2

	Anchor Eye				Anchor Body	
Size	Embedment Depth	Edge Distance	Design Shear Resistance[1]	Working Load in Shear[2]	Design Shear Resistance[1]	Working Load in Shear[2]
	h_e (mm)	c_1 (mm)	$\emptyset V_d$ (kN)	V_{WLL} (kN)	$\emptyset V_d$ (kN)	V_{WLL} (kN)
ø8 (M6)	40	50	0.9	0.4	3.2	1.6
		60	0.9	0.4	3.2	1.6
		80	0.9	0.4	3.2	1.6

Note: The performance loads of the anchor body are given as a guide only. Failure of steel in the eyelet occurs first. Hence, the lower loads should be referenced in designing.

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