PRODUCT DATA

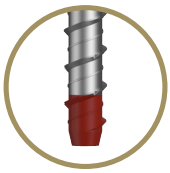
XBolt® Eye Mechanical Galvanised

Description

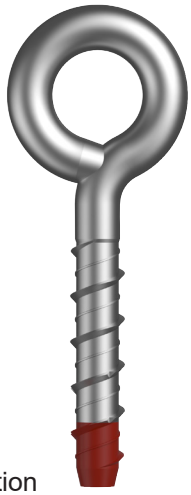
XBolt® is a single-unit screw-type anchor that can be used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, producing a mechanical interlock with the concrete.

XBolt®

Applications
• Suspension of mechanical and electrical services • Secure anchor point that can be used with rope, cables, shackles, and hooks • Suspended signage (internal)



Tapered End

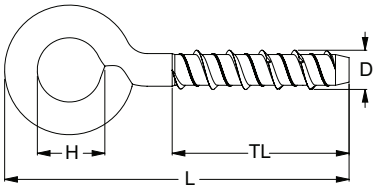


Material	CS Carbon Steel
Finish	MGAL Mechanical Galvanised

Features

- Rapid, simple installation
- Close edge distance installation
- Immediate loading of fixture
- Shallow embedment depth

Dimensions



Part	QFind	Size	Length	Thread Length	Hole Diameter	Eye Size
			L (mm)	TL (mm)	D (mm)	H (mm)
MXEMSGM160100	**MXE103**	M16	170	85	16	35

CONXTRUCT®

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Installation Specification

Size	Nominal Hole Diameter	Minimum Embedment Depth	Minimum Spacing	Minimum Edge Distance
Ø	d_h (mm)	$h_{e,min}$ (mm)	S_{min} (mm)	C_{min} (mm)
M16	16	65	70	70

Basic Load Performance in 32 MPa Non-cracked Concrete

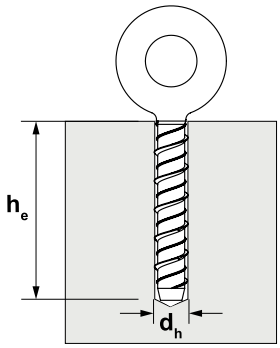
Tensile

Size	Embedment Depth	Design Tensile Resistance[1]	Working Load in Tension[2]
Ø	h_e (mm)	ØN_d (kN)	N_{WLL} (kN)
M16	65	13.3	7.3
	75	17.1	9.5
	100	28.0	15.5

Shear

Size	Embedment Depth	Edge Distance	Design Shear Resistance[1]	Working Load in Shear[2]
Ø	h_e (mm)	c_1(mm)	ØV_d (kN)	V_{WLL} (kN)
M16	80	70	8.7	4.8
		100	13.9	7.7
		150	23.9	13.3
		200	35.4	19.6

[1] *Design Resistance* is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Capacity reduction factors of ϕ = 0.60 for concrete and ϕ = 0.80 for steel are already included.
[2] *Working Load* is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factors of safety of FOS = 2.5 for steel and FOS = 3.0 for concrete are already included.



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Installation Guide

1. Drill a hole, ensuring minimum embedment depth using the correct drill bit size.
2. Clean the hole thoroughly with a vacuum or a hand pump to remove the debris.
3. Twist the anchor into the hole by hand. Once the tip of the anchor has been tapped into the hole, continue the installation using a hardened material, such as a metal rod, through the eye of the anchor.
4. Install the anchor until the correct embedment depth is reached.

Installation