



PRODUCT DATA

XBolt® Eye Zinc Yellow Passivate

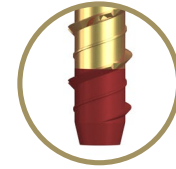
XBolt® is a single unit screw type anchor that can be used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, thus enabling it to produce a mechanical interlock with the concrete.

Applications	
<ul style="list-style-type: none"> • Suspension of mechanical and electrical services • Secure anchor point that can be used with rope, cables, shackles and hooks • Suspended signage (internal) 	

Material	Carbon Steel
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Finish	Zinc Yellow Passivate
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Part	QFind	Size	Length	TL	D	H	Pack Qty
			L (mm)	(mm)	(mm)	(mm)	
MXEMSYM080055	MXE100	M8	100	55	8	14	50
MXEMSYM100065	MXE101	M10	110	65	10	17	50
MXEMSYM120075	MXE102	M12	120	75	12	22	50



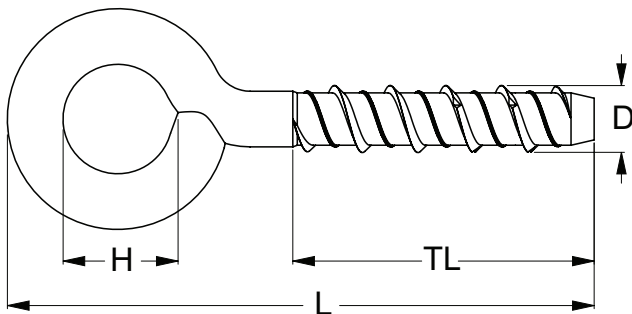
Tapered End



Features

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

XBolt



CONSTRUCT

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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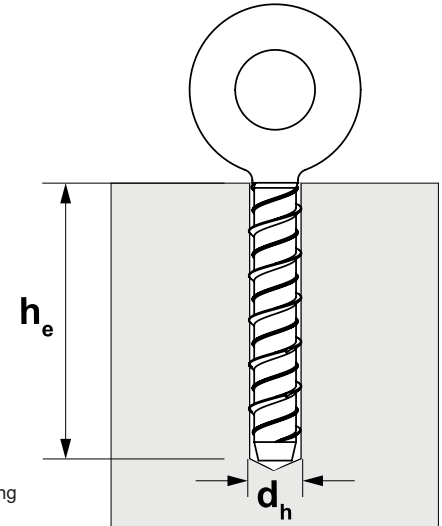
Installation Specification

Size	Nominal hole diameter	Minimum embedment depth	Minimum spacing	Minimum edge distance
Ø	d _n (mm)	h _{e,min} (mm)	S _{min} (mm)	C _{min} (mm)
M8	8	40	40	40
M10	10	50	50	50
M12	12	55	60	60

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. Capacity reduction factors of $\phi = 0.60$ for concrete and $\phi = 0.80$ for steel are already included.

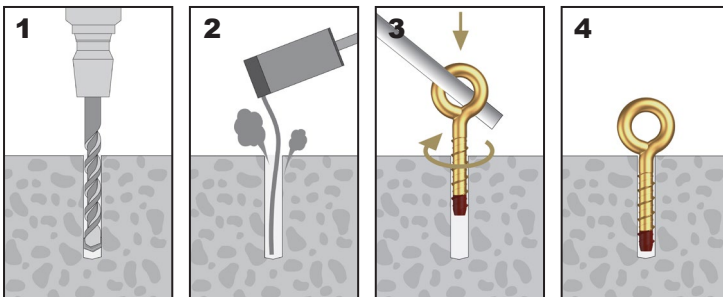
² *Working Load* is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor of safety of FOS = 2.5 for steel and FOS = 3.0 for concrete are already included.



Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²
Ø	h _e (mm)	ØN _d (kN)	N _{WLL} (kN)
M8	40	5.7	3.1
	55	10.6	5.9
M10	50	8.8	4.8
	65	14.4	8.0
M12	55	7.8	4.3
	60	11.3	6.2
	75	18.0	9.9

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)
M8	55	40	3.3	1.8
		60	5.8	3.2
		80	8.6	4.8
		100	11.8	6.5
M10	65	50	4.9	2.7
		80	9.1	5.1
		100	12.4	6.9
		120	15.9	8.8
M12	75	60	6.6	3.6
		80	9.7	5.3
		120	16.7	9.3
		150	22.6	12.6

Installation



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 initially 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.

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