PRODUCT DATA

XBolt[®] Coupler 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.

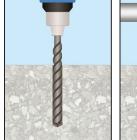
Applications

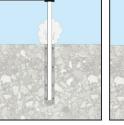
- · Mechanical, electrical and pipe hanger applications
- · Bottom plate fixing to concrete slabs
- · Ceiling hanger applications
- · Timber frame tie down to concrete slabs

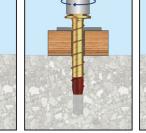


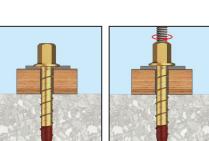
Part	QFind	Dia	Length	Pack Qty
		Ø (mm)	(mm)	
MXCMSYM120100	MXC102	M12	100	25
MXCMSYM120150	MXC103	M12	150	25

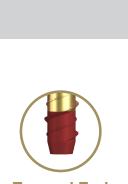
Installation











Tapered End

Features

- Suitable for medium to heavy loads
- Suitable for small anchor spacing and edge distance applications
- · Quick and easy to install
- Fully removable
- For use with M12 HDG Allthreaded rod







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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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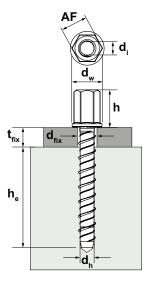


PRODUCT DATA

XBolt[®] Coupler Zinc Yellow Passivate

Installation Specification

Installation Parameter	Size			
	Ø12 X 100	Ø12 X 150		
Nominal hole diameter	d _h	(mm)	12.0	12.0
Minimum embedment depth	h _{e,min}	(mm)	55.0	55.0
Min. hole diameter on fixture	d _{fix}	(mm)	15.0	15.0
Wrench size (across flats)	AF	(mm)	19.0	19.0
Coupler Height	h	(mm)	30.0	30.0
Flange Head Diameter	d _w	(mm)	25.0	25.0
Internal Thread Diameter	d	(mm)	M12 x 1.75	M12 x 1.75
Minimum spacing	S _{min}	(mm)	60.0	60.0
Minimum edge distance		(mm)	60.0	60.0



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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 f = 0.60 for concrete and f = 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	Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h _e (mm)	фN (kN)	N _{WLL} (kN)		h _e (mm)	c₁ (mm)	фV(kN)	V _{WLL} (kN)
	55	7.80	4.30		05	40	-	-
Q10	60	11.30	6.30	<i>α</i> 10		80	9.70	5.40
Ø12	90	24.60	13.70	Ø12	65	120	17.90	9.90
	110	34.20	19.00			150	25.00	13.80

Basic Load Performance in 20 MPa non-cracked concrete

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)	фN (kN)	N _{wLL} (kN)		h _e (mm)	c₁(mm)	фV(kN)	V _{WLL} (kN)
	55	6.10	3.30		6E	40	-	-
Ø12	60	8.90	4.90	Ø12		80	7.60	4.20
	90	19.40	10.80	012	65	120	14.10	7.80
	110	27.00	15.00			150	19.70	10.90

Maximum Installation Torque (Nm)

Base Material: 32 MPa Concrete				
Anchor Diameter ø (mm)	12			
Installation Torque (Nm)	80			

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