PRODUCT DATA





XBolt® Coupler Mechanical Galvanised

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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

Material

Carbon Steel

Finish



Mechanical Galvanised

Part	QFind	Dia	Length	Pack Qty
		Ø (mm)	(mm)	
MXCMSGM120100	MXC100	M12	100	25
MXCMSGM120150	MXC101	M12	150	25





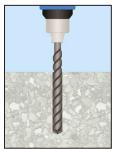


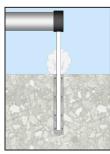
Features

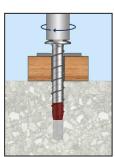
- · Suitable for medium to heavy loads
- · Suitable for small anchor spacing and edge distance applications
- · Quick and easy to install
- Fully removable
- · For use with M12 HDG Allthreaded rod

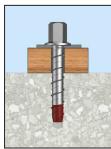


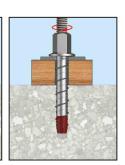
Installation













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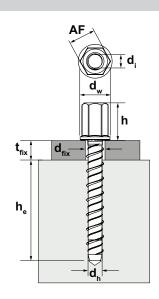


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Installation Specification

Installation Parameters			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 _i	(mm)	M12 x 1.75	M12 x 1.75
Minimum spacing	S _{min}	(mm)	60.0	60.0
Minimum edge distance	C _{min}	(mm)	60.0	60.0



Basic Load Performance in 32 MPa non-cracked concrete

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
	h _e (mm)	фN (kN)	N _{WLL} (kN)
	55	7.80	4.30
Ø12	60	11.30	6.30
	90	24.60	13.70
	110	34.20	19.00

Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h _e (mm)	c ₁ (mm)	фV (kN)	V _{WLL} (kN)
	65	40	-	-
040		80	9.70	5.40
Ø12		120	17.90	9.90
		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
	h _e (mm)	фN (kN)	N _{WLL} (kN)
	55	6.10	3.30
Ø12	60	8.90	4.90
012	90	19.40	10.80
	110	27.00	15.00

Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h _e (mm)	c ₁ (mm)	фV (kN)	V _{WLL} (kN)
	65	40	-	-
Ø12		80	7.60	4.20
Ø12		120	14.10	7.80
		150	19.70	10.90

Maximum Installation Torque (Nm)

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

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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.