PRODUCT DATA

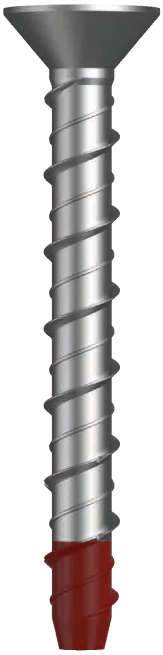
XBolt® Countersunk Head Mechanical Galvanised

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
• Hand rail fastening • Form-work support fastening • Mechanical, electrical and pipe bracket fastening • General flooring and decking • Swimming pool fences

Material	CS Carbon Steel
Finish	MGAL Mechanical Galvanised

Tapered End



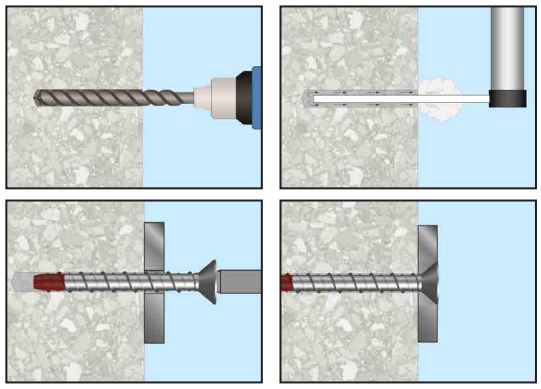
Features

- Rapid simple installation
- Close edge distance install
- Immediate loading of fixture
- Shallow embedment depth
- Fully removable
- Countersunk head for flush finish

Part	QFind	Dia	Internal Hex	Length	Pack Qty
		Ø (mm)	(mm)	(mm)	
MXKMSGM060050	**MXK100**	M6	5	50	100
MXKMSGM060075	**MXK101**		5	75	50
MXKMSGM080050	**MXK102**	M8	6	50	50
MXKMSGM080075	**MXK103**		6	75	50
MXKMSGM080100	**MXK104**		6	100	50
MXKMSGM100060	**MXK105**	M10	8	60	50
MXKMSGM100075	**MXK106**		8	75	50
MXKMSGM100100	**MXK107**		8	100	50
MXKMSGM120075	**MXK108**	M12	10	75	50
MXKMSGM120100	**MXK109**		10	100	50
MXKMSGM120150	**MXK110**		10	150	50

XBolt®

Installation



CONXTRUCT®

PRODUCT DATA

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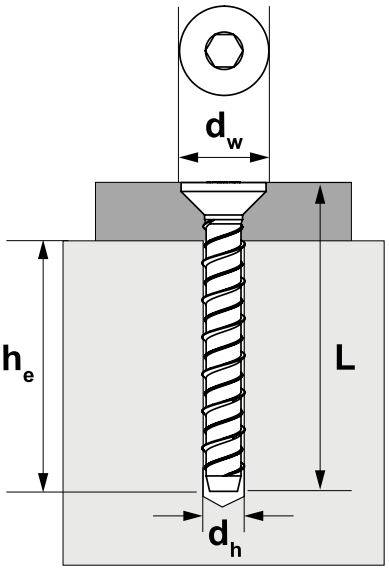
Installation Specification

Size	Nominal hole diameter	Minimum embedment depth	Drive Bit	Head Diameter	Minimum spacing	Minimum edge distance
Ø	d_h (mm)	$h_{e,min}$ (mm)	HEX	d_w (mm)	S_{min} (mm)	c_{min} (mm)
M6	6	25	5	16	40	40
M8	8	40	6	20	40	40
M10	10	50	8	24	50	50
M12	12	55	10	27	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 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. 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)
M6	25	2.4	1.3
	30	2.7	1.5
	45	6.1	3.3
	60	10.8	6.0
M8	35	4.1	2.3
	40	5.7	3.1
	60	12.2	6.8
	80	20.1	11.1
M10	45	6.6	3.6
	50	8.8	4.8
	75	18.2	10.1
	90	24.6	13.6
M12	55	7.8	4.3
	60	11.3	6.2
	90	24.6	13.6
	110	34.2	19.0

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)
M6	40	40	3.1	1.7
		60	5.4	3.0
		80	8.1	4.5
		100	9.5	4.7
M8	50	40	3.3	1.8
		60	5.8	3.2
		80	8.6	4.8
		100	11.8	6.5
M10	60	50	4.9	2.7
		80	9.1	5.1
		100	12.4	6.9
		120	15.9	8.8
M12	70	60	6.6	3.6
		80	9.7	5.3
		120	16.7	9.3
		150	22.6	12.6

Maximum Installation Torque (Nm)

Base Material: 32 MPa Concrete				
Anchor Diameter Ø (mm)	6	8	10	12
Installation Torque (Nm)	15	45	55	80