



PRODUCT DATA

XBolt® Countersunk Head Zinc Yellow Passivate

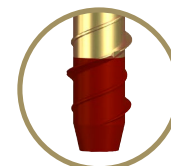
XBolt® is a single unit screw type anchor that can be used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, thus enabling it to produce a mechanical interlock with the concrete.

Applications	
<ul style="list-style-type: none"> • Hand rail fastening • Form-work support fastening • Mechanical, electrical and pipe bracket fastening • General flooring 	

Material	 Carbon Steel
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Finish	 Zinc Yellow Passivate
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Part	QFind	Dia	Internal Hex	Length	Pack Qty
		Ø (mm)	(mm)	(mm)	
MXKMSYM060050	MXK111	M6	5	50	100
MXKMSYM060075	MXK112		5	75	50
MXKMSYM080050	MXK113	M8	6	50	50
MXKMSYM080075	MXK114		6	75	50
MXKMSYM080100	MXK115		6	100	50
MXKMSYM100060	MXK116	M10	8	60	50
MXKMSYM100075	MXK117		8	75	50
MXKMSYM100100	MXK118		8	100	50
MXKMSYM120075	MXK119	M12	10	75	50
MXKMSYM120100	MXK120		10	100	50
MXKMSYM120150	MXK121		10	150	50

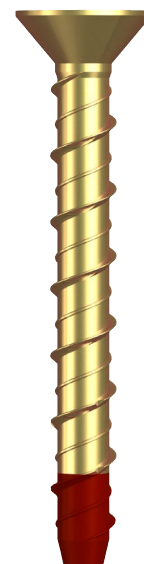


Tapered End



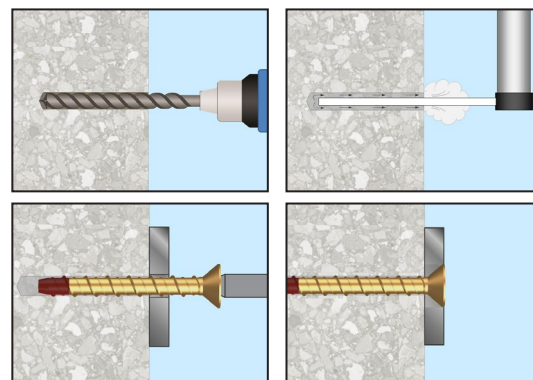
Features

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



XBolt®

Installation



CONSTRUCT®

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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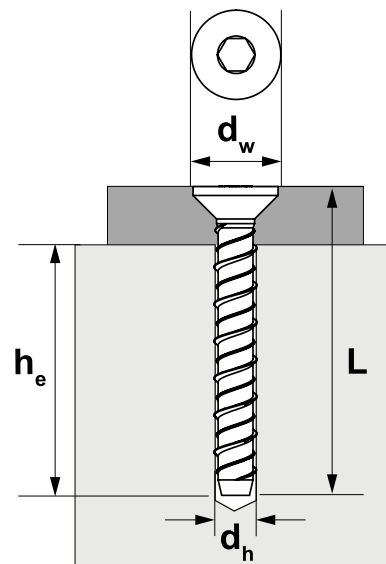


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Installation Specification

Size	Nominal hole diameter	Minimum embedment depth	Drive Bit	Head Diameter	Minimum spacing	Minimum edge distance
\emptyset	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 $\phi = 0.60$ 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	Size	Embedment Depth	Edge Distance	Design Shear Resistance ₁	Working Load in Shear ₂
\emptyset	h_e (mm)	$\emptyset N_d$ (kN)	N_{WLL} (kN)	\emptyset	h_e (mm)	c_1 (mm)	$\emptyset V_d$ (kN)	V_{WLL} (kN)
M6	25	2.4	1.3	M6	40	40	3.1	1.7
	30	2.7	1.5			60	5.4	3.0
	45	6.1	3.3			80	8.1	4.5
	60	10.8	6.0			100	9.5	4.7
M8	35	4.1	2.3	M8	50	40	3.3	1.8
	40	5.7	3.1			60	5.8	3.2
	60	12.2	6.8			80	8.6	4.8
	80	20.1	11.1			100	11.8	6.5
M10	45	6.6	3.6	M10	60	50	4.9	2.7
	50	8.8	4.8			80	9.1	5.1
	75	18.2	10.1			100	12.4	6.9
	90	24.6	13.6			120	15.9	8.8
M12	55	7.8	4.3	M12	70	60	6.6	3.6
	60	11.3	6.2			80	9.7	5.3
	90	24.6	13.6			120	16.7	9.3
	110	34.2	19.0			150	22.6	12.6

Maximum Installation Torque (Nm)

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

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability