

# PRODUCT DATA

## XBolt® Countersunk Head Mechanical Galvanised

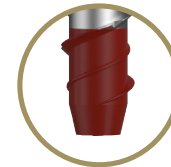
**XBolt®** is a single unit screw type anchor that can be used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, thus enabling it to produce a mechanical interlock with the concrete.

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

<b>Material</b>	 Carbon Steel
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<b>Finish</b>	 Mechanical Galvanised
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Part	QFind	Dia	Internal Hex	Length
		Ø (mm)	(mm)	(mm)
MXKMSGM060050	<b>MXK100</b>	M6	5	50
MXKMSGM060075	<b>MXK101</b>		5	75
MXKMSGM080050	<b>MXK102</b>	M8	6	50
MXKMSGM080075	<b>MXK103</b>		6	75
MXKMSGM080100	<b>MXK104</b>		6	100
MXKMSGM100060	<b>MXK105</b>	M10	8	60
MXKMSGM100075	<b>MXK106</b>		8	75
MXKMSGM100100	<b>MXK107</b>		8	100
MXKMSGM120075	<b>MXK108</b>	M12	10	75
MXKMSGM120100	<b>MXK109</b>		10	100
MXKMSGM120150	<b>MXK110</b>		10	150
MXKMSGM120200	<b>MXK122</b>		10	200

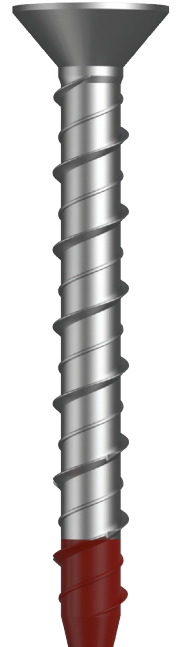


Tapered End



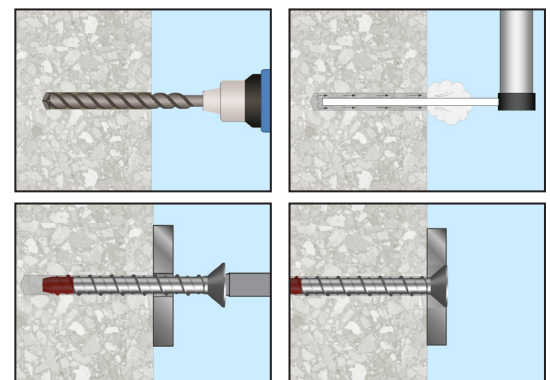
### Features

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



# XBolt®

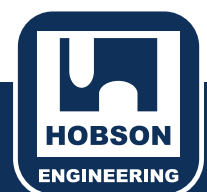
### Installation



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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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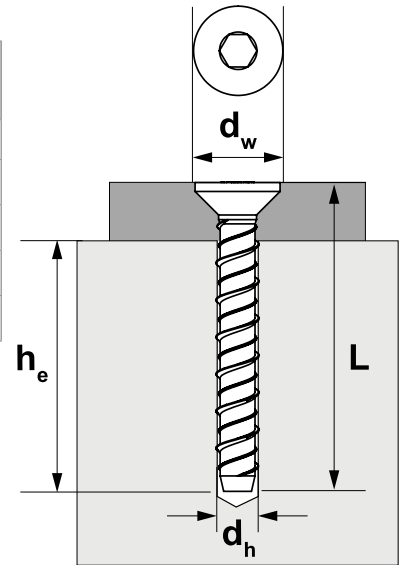


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### Installation Specification

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

<sup>1</sup> 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.

<sup>2</sup> 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 <sup>1</sup>	Working Load in Tension <sup>2</sup>	Size	Embedment Depth	Edge Distance	Design Shear Resistance <sub>1</sub>	Working Load in Shear <sub>2</sub>
$\emptyset$	$h_e$ (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