



PRODUCT DATA

XBolt® Screw Anchor Mechanical Galvanised

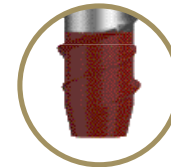
XBolt® is a single unit screw type anchor that can be used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, thus enabling it to produce a mechanical interlock with the concrete.

Applications	
<ul style="list-style-type: none"> • Hand rail fastening • Form-work support fastening • Mechanical, electrical and pipe bracket fastening • Bottom plate fixing into concrete slabs • Pallet racking 	

Material	Carbon Steel
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Finish	Mechanical Galvanised
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Part	QFind	Dia		Length
		Ø (mm)	(mm)	
MXHMSGM060030	MXH100	M6	30	
MXHMSGM060050	MXH101		50	
MXHMSGM060075	MXH102		75	
MXHMSGM060100	MXH103		100	
MXHMSGM080050	MXH104	M8	50	
MXHMSGM080060	MXH105		60	
MXHMSGM080075	MXH106		75	
MXHMSGM080100	MXH107		100	
MXHMSGM100060	MXH108	M10	60	
MXHMSGM100075	MXH109		75	
MXHMSGM100100	MXH110		100	
MXHMSGM100120	MXH111		120	
MXHMSGM100150	MXH112	M12	150	
MXHMSGM120075	MXH113		75	
MXHMSGM120100	MXH114		100	
MXHMSGM120150	MXH115		150	
MXHMSGM160100	MXH116	M16	100	
MXHMSGM160150	MXH117		150	
MXHMSGM200150	MXH140		150	
MXHMSGM200200	MXH142	M20	200	

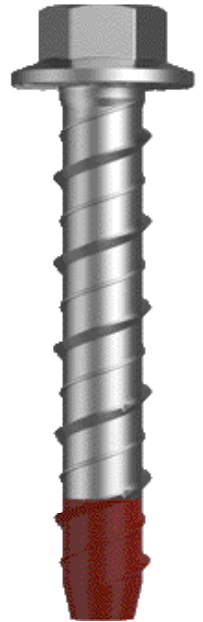


Tapered End



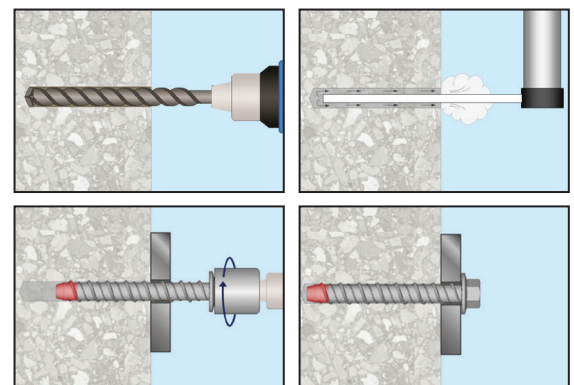
Features

- Suitable for medium to heavy loads
- Suitable for small anchor spacing and edge distance applications
- Quick and easy to install
- Fully removable



XBolt®

Installation



CONSTRUCT®

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

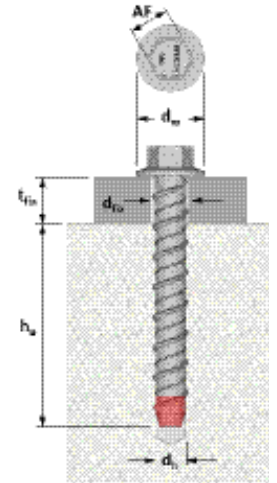


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Installation Specification

Size	Nominal hole diameter	Minimum embedment depth	Min. hole diameter on fixture	Wrench size	Flange Head Diameter	Minimum spacing	Minimum edge distance
Ø	d _h (mm)	h _{e,min} (mm)	d _{fix} (mm)	AF (mm)	d _w (mm)	S _{min} (mm)	c _{min} (mm)
M6	6	25	8	10	13.7	40	40
M8	8	40	11	13	17.9	40	40
M10	10	50	13	15	22.5	50	50
M12	12	55	15	16	26.1	60	60
M16	16	65	20	21	31.9	70	70
M20	20	90	24	27	40.0	100	100



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
Ø	h _e (mm)	ØN _d (kN)	N _{WLL} (kN)	Ø	h _e (mm)	c ₁ (mm)	ØV _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	40	5.7	3.1	M8	50	40	3.3	1.8
	60	12.2	6.8			60	5.8	3.2
	80	20.1	11.1			80	8.6	4.8
M10	50	8.8	4.8	M10	60	100	11.8	6.5
	75	18.2	10.1			50	4.9	2.7
	90	24.6	13.6			80	9.1	5.1
M12	55	7.8	4.3	M12	70	100	12.4	6.9
	60	11.3	6.2			120	15.9	8.8
	90	24.6	13.6			60	6.6	3.6
	110	34.2	19.0			80	9.7	5.3
M16	65	13.3	7.3	M16	80	120	16.7	9.3
	75	17.1	9.5			150	22.6	12.6
	100	28.0	15.5			70	8.7	4.8
	125	40.6	22.5			100	13.9	7.7
M20	90	31.9	17.7	M20	115	150	23.9	13.3
	105	40.2	22.3			200	35.4	19.6
	115	46.0	25.6			100	15.8	8.8
	130	55.3	30.7			150	26.7	14.8
						200	39.0	21.7
						250	52.5	29.2

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Maximum Installation Torque (Nm)

Base Material: 32 MPa Concrete							
Anchor Diameter Ø (mm)	5	6	8	10	12	16	20
Installation Torque (Nm)	10	15	45	55	80	100	140

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