PRODUCT DATA





XBolt® Screw Anchor 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

- · Hand rail fastening
- · Form-work support fastening
- · Mechanical, electrical and pipe bracket fastening
- · Bottom plate fixing into concrete slabs
- · Pallet racking

Material



Carbon Steel

Finish



Mechanical Galvanised

Part	QFind	Dia	Length	Pack Qty
		Ø (mm)	(mm)	
MXHMSGM060030	MXH100	M6	30	100
MXHMSGM060050	MXH101		50	100
MXHMSGM060075	MXH102	IVIO	75	50
MXHMSGM060100	MXH103		100	50
MXHMSGM080050	MXH104		50	50
MXHMSGM080060	MXH105	M8	60	50
MXHMSGM080075	MXH106		75	50
MXHMSGM080100	MXH107		100	50
MXHMSGM100060	MXH108		60	50
MXHMSGM100075	MXH109		75	50
MXHMSGM100100	MXH110	M10	100	50
MXHMSGM100120	MXH111		120	50
MXHMSGM100150	MXH112		150	50
MXHMSGM120075	MXH113	M12	75	50
MXHMSGM120100	MXH114		100	50
MXHMSGM120150	MXH115		150	50
MXHMSGM160100	MXH116	M16	100	15
MXHMSGM160150	MXH117	IVIIO	150	15





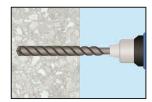
Features

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

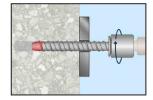


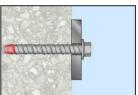


Installation











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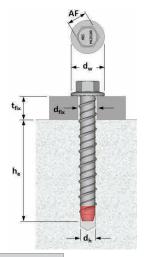


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Installation Specification

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



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	
Ø	h _e (mm)	ØN _d (kN)	N _{WLL} (kN)	
	25	2.4	1.3	
M6	30	2.7	1.5	
IVIO	45	6.1	3.3	
	60	10.8	6.0	
M8	40	5.7	3.1	
	60	12.2	6.8	
	80	20.1	11.1	
M10	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	
M16	65	13.3	7.3	
	75	17.1	9.5	
	100	28.0	15.5	
	125	40.6	22.5	

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)	
	40	40	3.1	1.7	
M6		60	5.4	3.0	
IVIO		80	8.1	4.5	
		100	9.5	4.7	
		40	3.3	1.8	
M8	50	60	5.8	3.2	
IVIO	30	80	8.6	4.8	
		100	11.8	6.5	
	60	50	4.9	2.7	
M10		80	9.1	5.1	
IVITO		100	12.4	6.9	
		120	15.9	8.8	
	70	60	6.6	3.6	
M12		80	9.7	5.3	
		120	16.7	9.3	
		150	22.6	12.6	
M16	80	70	8.7	4.8	
		100	13.9	7.7	
		150	23.9	13.3	
		200	35.4	19.6	

Maximum Installation Torque (Nm)

	<u>-</u>					
Base Material: 32 MPa Concrete						
Anchor Diameter Ø (mm)	5	6	8	10	12	16
Installation Torque (Nm)	10	15	45	55	80	100

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