



PRODUCT DATA

XBolt® Torx Drive Dome Head

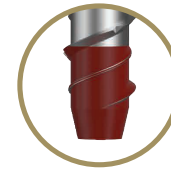
XBolt® is a single unit screw type anchor that can be used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, thus enabling it to produce a mechanical interlock with the concrete. The cutting and locking mechanism, enables the anchor to be used in close spacing and edge distance applications.

Applications	
<ul style="list-style-type: none"> • Hand rail fastening • Form work support fastening • Chemical, electrical and pipe bracket fastening • Temporary or permanent form-work • Prisons as an anti-tamper anchor • Street furniture including park benches and play equipment 	

Material	 Carbon Steel
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Finish	 Mechanical Galvanised
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Part	QFind	Dia	Torx Drive	Length	Pack Qty
		Ø (mm)		(mm)	
MXDMSGM060065	MXD100	M6	T30	65	50
MXDMSGM060075	MXD101		T30	75	50
MXDMSGM060100	MXD102		T30	100	50
MXDMSGM080060	MXD103	M8	T40	60	50
MXDMSGM080075	MXD104		T40	75	50
MXDMSGM080100	MXD105		T40	100	50
MXDMSGM100075	MXD106	M10	T50	75	50
MXDMSGM100100	MXD107		T50	100	50
MXDMSGM100150	MXD108		T50	150	50

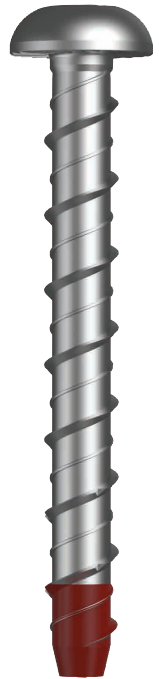


Tapered End



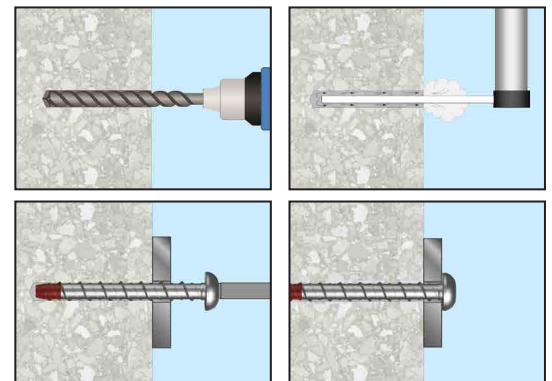
Features

- Rapid simple installation
- Close edge distance install
- Immediate loading of fixture
- Shallow embedment depth
- Tamper proof fixing



XBolt®

Installation



CONSTRUCT®

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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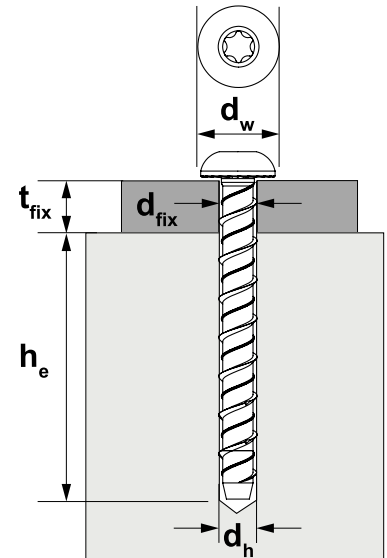
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Installation Specification

Size	Nominal hole diameter	Minimum embedment depth	Min. hole diameter on fixture	Drive Bit	Head Diameter	Minimum spacing	Minimum edge distance
Ø	d_h (mm)	$h_{e,min}$ (mm)	d_{fix} (mm)	Torx	d_w (mm)	S_{min} (mm)	c_{min} (mm)
M6	6	25	8	T30	16	40	40
M8	8	40	11	T40	18	40	40
M10	10	50	13	T50	22	50	50



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)	ϕN_d (kN)	N_{WLL} (kN)	Ø	h_e (mm)	c_1 (mm)	ϕV_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
			100			12.4	6.9	
						120	15.9	8.8

Maximum Installation Torque (Nm)

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

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