



PRODUCT DATA

XBolt® Vertical Hanger

The **XBolt®** is a single unit screw type anchor used in solid concrete applications. Achieve fixing by screwing the anchor into the hole. As it is screwed in, it creates its own undercut by tapping the concrete hole

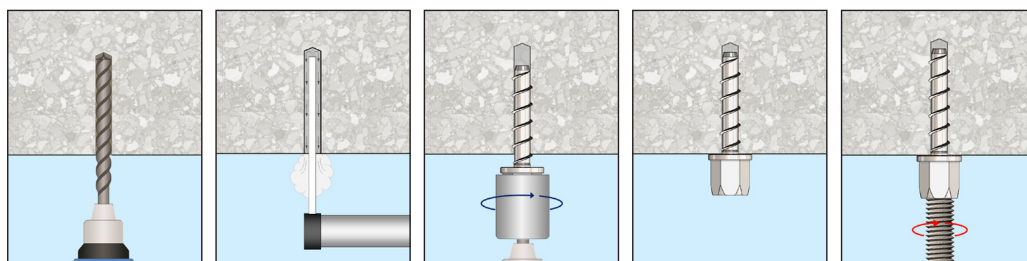
Applications	Trades
<ul style="list-style-type: none"> Mechanical and electrical Pipe and ceiling hangers Ceiling hanger applications HVAC Fire sprinklers Cable tray Suspension of mechanical services 	<ul style="list-style-type: none"> Building Plumbing Electrical Air conditioning trades HVAC Installers

Material	 CS Carbon Steel
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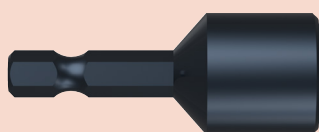
Finish	 Z/P Zinc Plate (RoHS Compliant)
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Part	QFind	Size Ø	Embedment Length	Pack Qty
		D (mm)	L (mm)	
MVXMSZIM100038	MVX101	M10	38	100

Installation



Recommended



Pre-drilling Diameter - 6mm Ø

Best installed with cordless impact drivers

Socket to suit: MXSVSM10

AF= 13mm, 1/4" drive

POWER-TX®

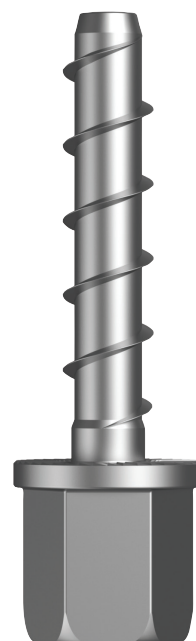
CONSTRUCT

Vertical Hanger



Features

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



XBolt

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Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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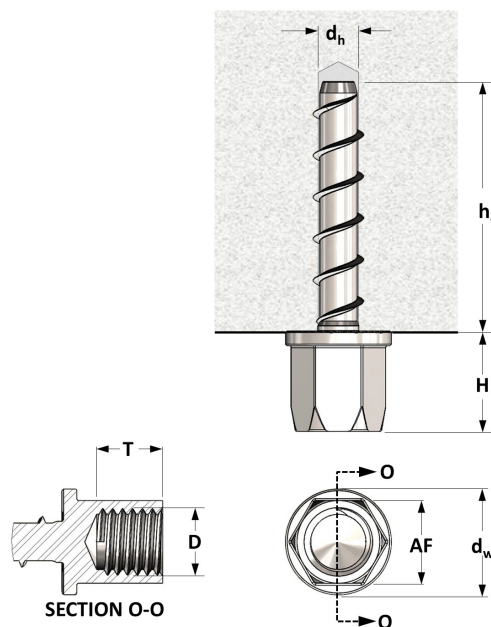


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XBolt® Vertical Hanger

Installation Parameters

Installation Parameters		Vertical Hanger
		M10 X 38
Nominal hole diameter	d_h (mm)	6
Embedment depth	h_e (mm)	38
Hex head height	H (mm)	15
Wrench size (across flats)	AF (mm)	13
Flange head diameter	d_w (mm)	16
Thread length	T (mm)	12
Thread size and pitch	D	M10 x P1.5
Minimum spacing	S_{min} (mm)	50
Minimum edge distance	c_{min} (mm)	40



Basic Load Performance in 20MPa non-cracked concrete

Tensile Loads			
Hanger Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²
	h_e	ϕN	N_{WLL}
	(mm)	(kN)	(kN)
M10 X 38	38	5.6	3.1

Shear Loads				
Hanger Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h_e	c_1	ϕV	V_{WLL}
	(mm)	(mm)	(kN)	(kN)
M10 X 38	38	100	8.6	5.8

Basic Load Performance in 32MPa non-cracked concrete

Hanger Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²
	h_e	ϕN	N_{WLL}
	(mm)	(kN)	(kN)
M10 X 38	38	7.0	3.9

Hanger Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h_e	c_1	ϕV	V_{WLL}
	(mm)	(mm)	(kN)	(kN)
M10 X 38	38	100	10.9	5.8

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.

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