



PRODUCT DATA

XBolt® Vertical Hanger

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

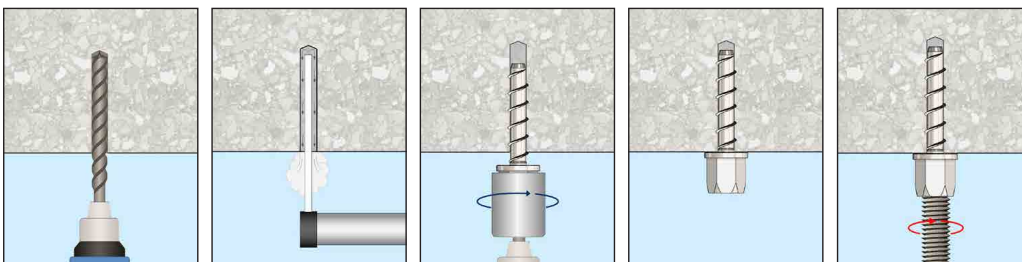
Applications	Trades
<ul style="list-style-type: none"> • Mechanical, electrical and pipe hanger applications • Ceiling hanger applications • HVAC • Fire sprinklers • Cable tray • Suspension of mechanical services 	<ul style="list-style-type: none"> • Building • Plumbing • Electrical • Air conditioning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


Material	 Carbon Steel
-----------------	---

Finish	 Zinc Plate (RoHS Compliant)
---------------	---

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.

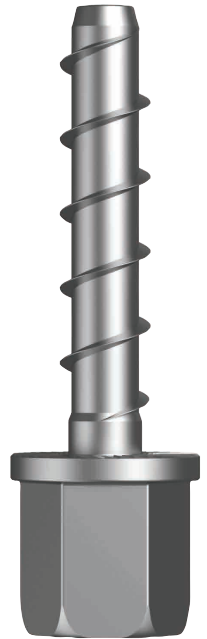
CONSTRUCT

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

Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering®, its agencies and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

hobson.com.au **QUALITY FASTENERS SINCE 1935**



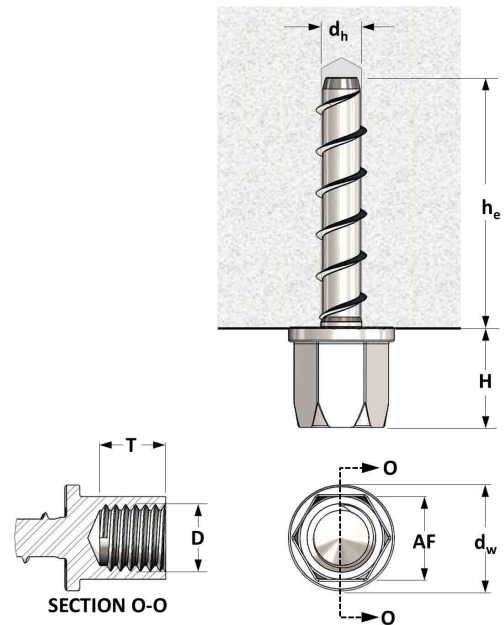


PRODUCT DATA

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 & 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				Shear Loads				
Hanger Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²	Hanger Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h_e	ϕN	N_{WLL}					
	(mm)	(kN)	(kN)		h_e	c_1	ϕV	V_{WLL}
M10 X 38	38	5.6	3.1	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	Hanger Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h_e	ϕN	N_{WLL}					
	(mm)	(kN)	(kN)		h_e	c_1	ϕV	V_{WLL}
M10 X 38	38	7.0	3.9	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.

Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering®, its agencies and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

hobson.com.au **QUALITY FASTENERS SINCE 1935**