

# XBOLT VERTICAL HANGAR

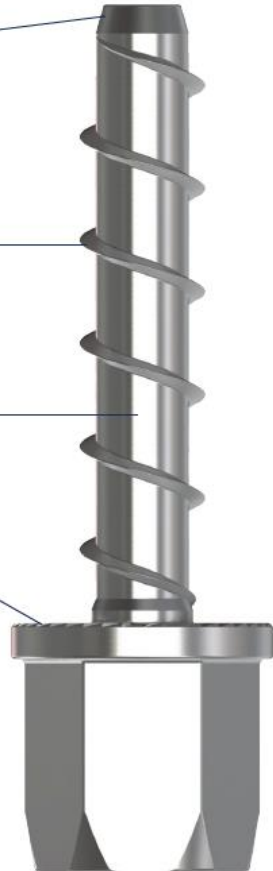


Tapered end for easier insertion to the hole.

Optimized thread profile and pitch for easy installation and performance.

Heat treated carbon steel for secured concrete tapping

Serrated flange head for better fixture grip.



XBolts® are single unit screw type anchors that are 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.

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

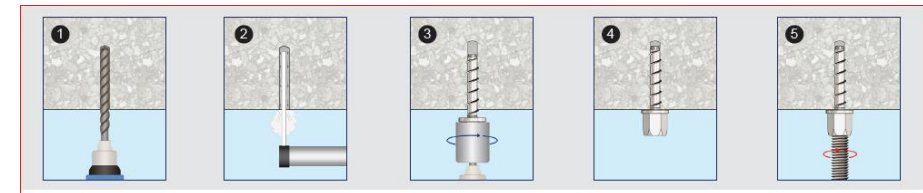
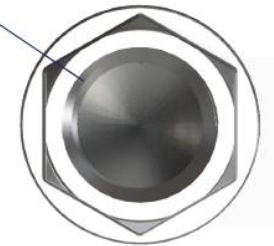
The XBolt® Vertical Hanger screw anchor can primarily be used for the following applications:

- Mechanical, electrical and pipe hanger applications
- Ceiling hanger applications



*For further technical information please contact Southeast Fasteners direct*

M6 and M10 internally threaded hex head



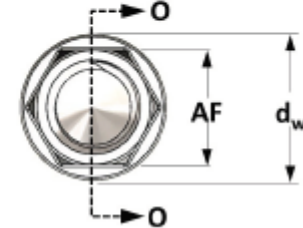
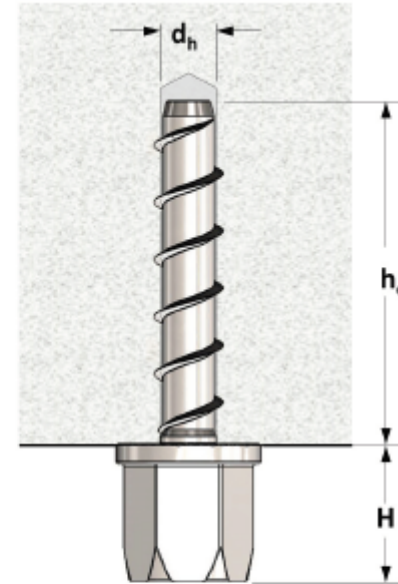
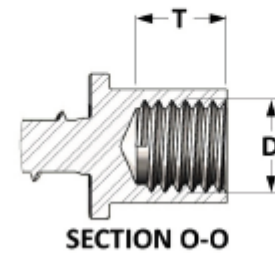
Southeast Fastener	ABN 30117890114		
Larapinta Branch:	71 Axis Place, LARAPINTA QLD 4110	TEL: 07 3273 4400	FAX: 07 3272 4999
Eagle Farm Branch:	109A Links Avenue South, EAGLE FARM QLD 4009	TEL: 07 3268 77 88	FAX: 07 3268 5689

# XBOLT VERTICAL HANGER



## Installation Parameters

Installation Parameters		XBolt™ Vertical Hanger M10 X 38 (MVXMSZIM100038)
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



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# XBOLT VERTICAL HANGAR



## Basic Load Performance in 20MPa non-cracked concrete

XBolt™ Hanger Size	Embedment Depth	Design Tensile Resistance <sup>1</sup>	Working Load in Tension <sup>2</sup>	XBolt™ Hanger Size	Embedment Depth	Edge Distance	Design Shear Resistance <sup>1</sup>	Working Load in Shear <sup>2</sup>
	$h_c$ (mm)	$\phi N$ (kN)	$N_{WLL}$ (kN)		$h_c$ (mm)	$c_1$ (mm)	$\phi V$ (kN)	$V_{WLL}$ (kN)
M6 X 32 (MVXMSZIM060032)	32	4.10	2.30	M6 X 32 (MVXMSZIM060032)	32	40	2.3	3.9
M10 X 38 (MVXMSZIM100038)	38	5.60	3.10	M10 X 38 (MVXMSZIM100038)	38	100	8.6	5.8



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## Basic Load Performance in 32MPa non-cracked concrete

XBolt™ Hanger Size	Embedment Depth	Design Tensile Resistance <sup>1</sup>	Working Load in Tension <sup>2</sup>	XBolt™ Hanger Size	Embedment Depth	Edge Distance	Design Shear Resistance <sup>1</sup>	Working Load in Shear <sup>2</sup>
	$h_c$ (mm)	$\phi N$ (kN)	$N_{WLL}$ (kN)		$h_c$ (mm)	$c_1$ (mm)	$\phi V$ (kN)	$V_{WLL}$ (kN)
M6 X 32 (MVXMSZIM060032)	32	5.20	2.90	M6 X 32 (MVXMSZIM060032)	32	40.00	2.9	4.9
M10 X 38 (MVXMSZIM100038)	38	7.00	3.90	M10 X 38 (MVXMSZIM100038)	38	100.00	10.9	5.8

<sup>1</sup> 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.

<sup>2</sup> 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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