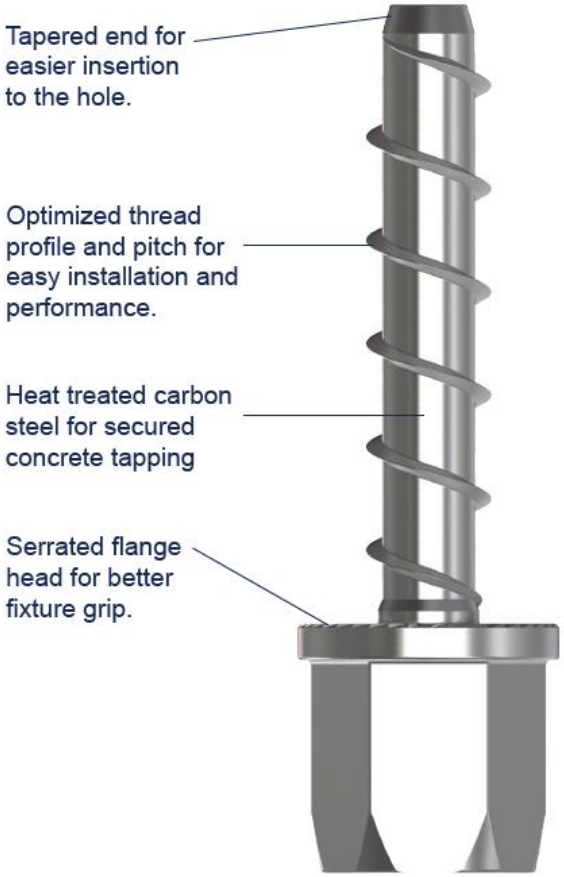
XBOLT VERTICAL HANGAR

Phone: 07 3268 7788
sales@sefqld.com.au

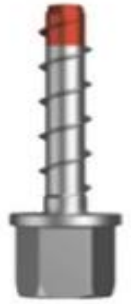


XBolts® are single unit screw type anchors that are used in solid concrete applications. Fixing is achieved by screwing the anchor into the hole. As it is screwed in, it creates its own undercut by tapping the concrete hole.

- ✔ 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



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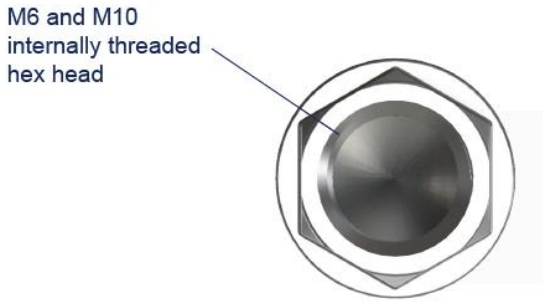

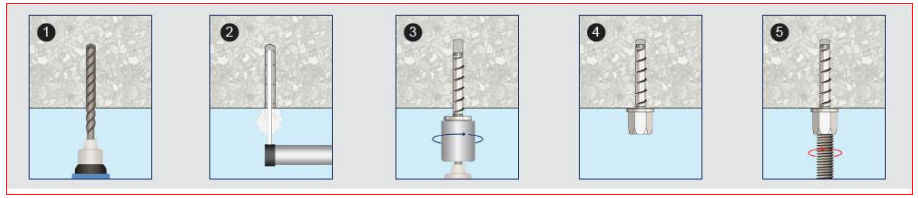

Southeast Fasteners QLD
109A Links Avenue South
EAGLE FARM QLD 4109

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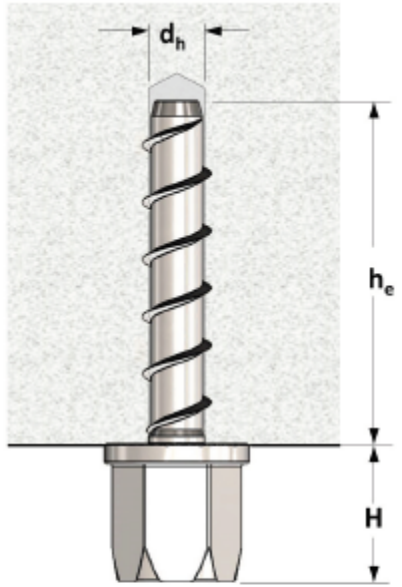
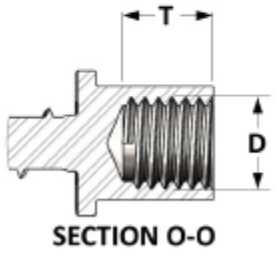
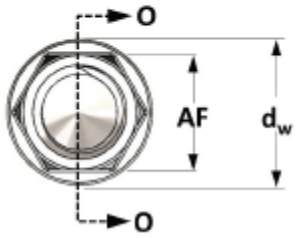
Installation Parameters

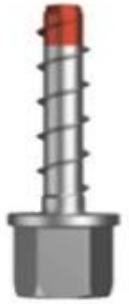
Installation Parameters			XBolt™ Vertical Hanger M10 X 38 (MVXMSZIM100038)
Nominal hole diameter	d_h	(mm)	6
Embedment depth	h_e	(mm)	38
Hex head height	H	(mm)	15
Wrench size (across flats)	AF	(mm)	13
Flange Head Diameter	d_w	(mm)	16
Thread Length	T	(mm)	12
Thread Size & Pitch	D		M10 x P1.5
Minimum spacing	S_{min}	(mm)	50
Minimum edge distance	c_{min}	(mm)	40





SECTION O-O





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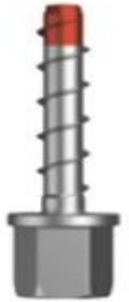

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Basic Load Performance in 20MPa non-cracked concrete

XBolt™ Hanger Size	Embedment Depth h_e (mm)	Design Tensile Resistance[1] ϕN (kN)	Working Load in Tension[2] N_{WLL} (kN)	XBolt™ Hanger Size	Embedment Depth h_e (mm)	Edge Distance c_1 (mm)	Design Shear Resistance[1] ϕV (kN)	Working Load in Shear[2] 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

Basic Load Performance in 32MPa non-cracked concrete

XBolt™ Hanger Size	Embedment Depth h_e (mm)	Design Tensile Resistance[1] ϕN (kN)	Working Load in Tension[2] N_{WLL} (kN)	XBolt™ Hanger Size	Embedment Depth h_e (mm)	Edge Distance c_1 (mm)	Design Shear Resistance[1] ϕV (kN)	Working Load in Shear[2] 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

[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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