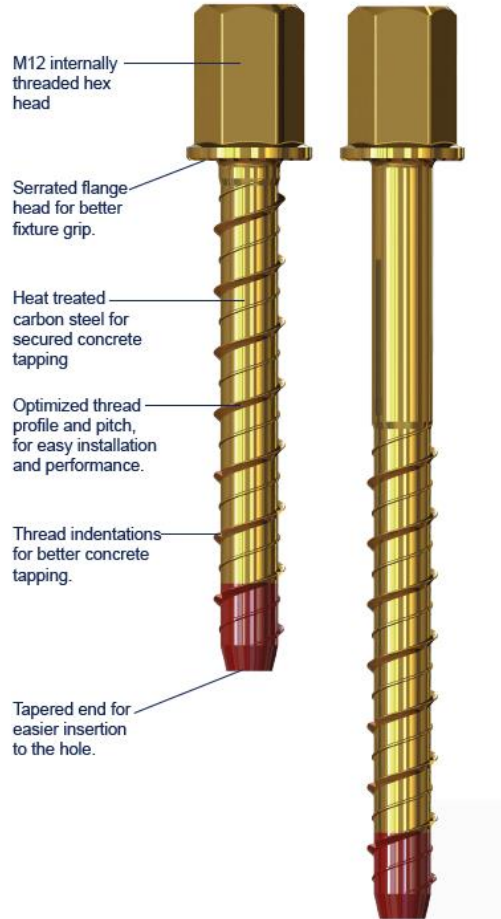


SCREW ANCHOR COUPLER



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. The cutting and locking mechanism, enables the anchor to be used in close spacing and edge distance applications.

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

Because of the X-Bolt's unique features, it can be used for many fastening applications, including but not limited to the following:

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



For further technical information please contact Southeast Fasteners direct

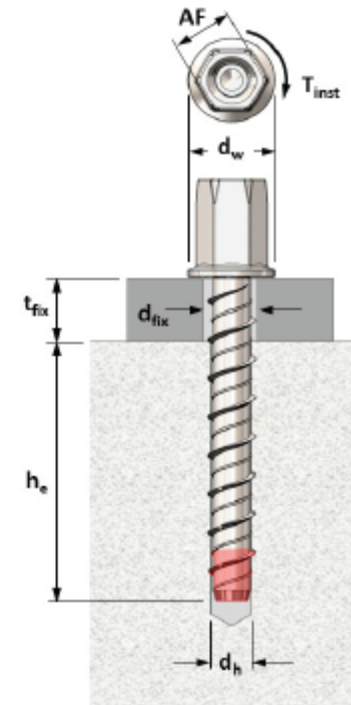


Southeast Fastener	ABN 30117890114	
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Eagle Farm Branch:	109A Links Avenue South, EAGLE FARM QLD 4009	TEL: 07 3268 77 88 FAX: 07 3268 5689

SCREW ANCHOR COUPLER

Installation Specification

Installation Parameters		XBolt™ Tie Down Screw Anchor Size	
		Ø12 X 100	Ø12 X 150
Nominal hole diameter	d_h (mm)	12	12
Minimum embedment depth	$h_{e,min}$ (mm)	55	55
Min. hole diameter on fixture	d_f (mm)	15	15
Wrench size (across flats)	AF (mm)	19	19
Flange Head Diameter	d_w (mm)	24.5	24.5
Minimum spacing	S_{min} (mm)	60	60
Minimum edge distance	C_{min} (mm)	60	60



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SCREW ANCHOR COUPLER



Basic Load Performance in 32 MPa non-cracked concrete

XBolt™ Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²	XBolt™ Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h_e (mm)	ϕN (kN)	N_{wtl} (kN)		h_e (mm)	c_1 (mm)	ϕV (kN)	V_{wtl} (kN)
Ø12	55	7.80	4.30	Ø12	65	40	SUT	SUT
	60	11.30	6.30			80	9.70	5.40
	90	24.60	13.70			120	17.90	9.90
	110	34.20	19.00			150	25.00	13.80



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Basic Load Performance in 20 MPa non-cracked concrete

XBolt™ Size	Embedment Depth	Design Tensile Resistance ¹	Working Load in Tension ²	XBolt™ Size	Embedment Depth	Edge Distance	Design Shear Resistance ¹	Working Load in Shear ²
	h_e (mm)	ϕN (kN)	N_{wtl} (kN)		h_e (mm)	c_1 (mm)	ϕV (kN)	V_{wtl} (kN)
Ø12	55	6.10	3.30	Ø12	65	40	SUT	SUT
	60	8.90	4.90			80	7.60	4.20
	90	19.40	10.80			120	14.10	7.80
	110	27.00	15.00			150	19.70	10.90

¹ Design Resistance is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Capacity reduction factors of $\phi = 0.80$ 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.

SUT = still under testing

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