## **SLEEVE ANCHOR**

Phone: <sup>07</sup> 3268 7788 sales@sefqld.com.au





Hobson Tygabolts® are pre-assembled single unit wedge type anchors that are used in solid concrete applications. Fixing is achieved by controlled torqueing of the nut which draws the cone section up into the sleeve, thereby expanding it outward and forcing the Tygabolt™ against the sidewall of the pre-drilled hole.

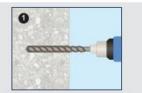
Because of the Tygabolt's unique features, it can be used for many fastening applications, including but not limited to the following:

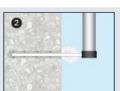
- · Hand rail fastening
- · Formwork support fastening
- Mechanical, electrical and pipe bracket fastening

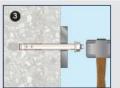


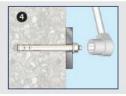
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- Suitable for light to medium duty loads
- Quick and easy to install
- Immediate loading is possible











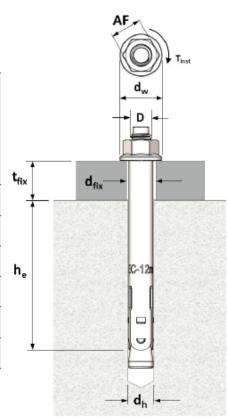
Southeast Fasteners QLD 109A Links Avenue South **EAGLE FARM QLD 4109** 

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## **Installation Guide**

Tygabolt Size	Thread Size D	Hole Ø  d <sub>h</sub> (mm)	Minimum depth h <sub>e,min</sub> (mm)	Hole Ø on fixture d <sub>fix</sub> (mm)	Torque Guide T <sub>inst</sub> (N-m)	Wrench size AF (mm)	Flange Head Diameter d <sub>w</sub> (mm)	Minimum concrete thickness h <sub>min</sub> (mm)	Minimum spacing S <sub>min</sub> (mm)	Minimum edge distance C <sub>min</sub> (mm)
Ø6.5	M5	6.5	25	8	5	8	10.9	75	50	50
Ø8	M6	8	40	10	8	10	12.8	100	50	50
Ø10	M8	10	50	12	25	13	16.8	100	60	60
Ø12	M10	12	60	14	40	15	20.3	100	75	75
Ø16	M12	16	70	18	50	18	24.3	125	100	100
Ø20	M16	20	80	22	80	24	32.9	150	120	120





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

<sup>2</sup> Working Load is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor of safety FOS = 2.5 for steel and FOS = 3.0 for concrete are already included.

Tygabolt Size	Embedment Depth h (mm)	Design Tensile Resistance <sup>1</sup> ΦN <sub>d</sub> (mm)	Working Load in Tension <sup>2</sup> N <sub>wu</sub> (kN)	
	25	3.6	2.0	
Ø6.5 (M5)	30	4.5	2.2	
(1113)	40	4.5	2.2	
_	40	6.4	3.2	
Ø8 (M6)	60	6.4	3.2	
(1410)	80	6.4	3.2	
	60	11.7	5.8	
Ø10 (M8)	80	11.7	5.8	
(1410)	100	11.7	5.8	
	70	17.5	9.2	
Ø12 (M10)	90	18.5	9.2	
(10110)	120	18.5	9.2	
	80	21.9	12.2	
Ø16 (M12)	100	26.9	13.4	
(IVITZ)	120	26.9	13.4	
-1	90	26.5	14.7	
Ø20 (M16)	100	31.6	17.6	
(10110)	125	45.8	25.1	

Tygabolt	Embedment Depth	Edge Distance	Design Shear Resistance <sup>1</sup>	Working Load in Shear²	
Size	h,	c,	φv <sub>a</sub>	V <sub>wtt</sub>	
	(mm)	(mm)	(kN)	(kN)	
Ø6.5 (M5)		50	2.2	1.1	
	40	60	2.2	1.1	
		70	2.2	1.1	
Ø8 (M6)		50	3.2	1.6	
	50	60	3.2	1.6	
		80	3.2	1.6	
4	60	60	5.8	2.9	
Ø10 (M8)		80	5.8	2.9	
()		100	5.8	2.9	
I		75	9.2	4.6	
Ø12 (M10)	70	90	9.2	4.6	
(11120)		120	9.2	4.6	
4		100	13.4	6.7	
Ø16 (M12)	80	120	13.4	6.7	
(14112)		150	13.4	6.7	
		120	20.2	10.2	
Ø20 (M16)	100	150	25.1	12.5	
(14170)		175	25.1	12.5	



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