### FLUSH HEAD SLEEVE ANCHOR





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.

Suitable for light to medium duty loads

Quick and easy to install

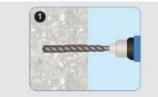
Immediate loading is possible

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

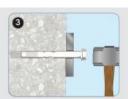
- Hand rail fastening
- · Formwork support fastening
- Mechanical, electrical and pipe bracket fastening
- and many more...

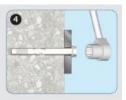


For further technical Information please contact Southeast Fasteners direct









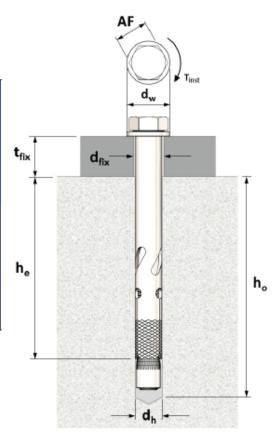
Southeast Fastener	ABN 30117890114	
Larapinta Branch:	71 Axis Place, LARAPINTA QLD 4110	TEL: 07 3273 4400   FAX: 07 3272 4999
Eagle Farm Branch:	109A Links Avenue South, EAGLE FARM QLD 4009	TEL: 07 3268 77 88   FAX: 07 3268 5689

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### **Installation Guide**

Tygabolt Size	Thread Size D	Hole Ø	Minimum depth h <sub>e,min</sub>	Hole Ø on fixture d <sub>f</sub>	Torque Guide T <sub>inst</sub>	Wrench size AF	Head Diameter	Minimum concrete thickness h <sub>min</sub>	Minimum spacing S <sub>min</sub>	Minimum edge distance
		(mm)	(mm)	(mm)	(N-m)	(mm)	(mm)	(mm)	(mm)	(mm)
Ø8	M6	8	40	10	8	10	12.8	100	50	50
Ø10	M8	10	50	12	25	13	16.7	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





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

<sup>1</sup> Limit State strengths are obtained by comparing the concrete and steel relevant strengths. Strength reduction of  $\phi = 0.60$  for concrete and  $\phi = 0.80$  for steel are already included.

<sup>2</sup> Working Loads (WLL) are obtained by comparing the concrete and steel relevant working loads. The factor of safety (FOS) used for steel is FOS = 2.5 and FOS = 3.0 is used for concrete.

Tygabolt Size	Embedment Depth	Limit State Strength <sup>1</sup>	Working Load Limit in Tension <sup>2</sup>
Tygabolt 3ize	<b>h<sub>e</sub></b> (mm)	<b>фN</b> (kN)	N <sub>WLL</sub> (kN)
	40	8.4 [8.4]	4.6 [4.6]
Ø8	60		
	80	9.5 [8.4]	<b>5.2</b> [5.6]
Ø10	40	8.4 [8.4]	4.6 [4.6]
	70	<b>13.0</b> [13.0]	<b>7.2</b> [10.2]
	90	<b>13.0</b> [13.0]	<b>7.2</b> [10.2]
	50	<b>11.7</b> [11.7]	6.5 [6.5]
Ø12	75	<b>21.6</b> [21.6]	<b>12.0</b> [12.0]
	100	<b>22.5</b> [32.4]	<b>12.5</b> [16.2]
	60	<b>15.4</b> [15.4]	<b>8.5</b> [8.5]
Ø16	80	<b>19.0</b> [23.8]	<b>10.5</b> [13.2]
	105	<b>19.0</b> [35.7]	<b>10.5</b> [19.8]

Tygabolt Size	Embedment Depth	Edge Distance	Limit State Strength <sup>1</sup>	Working Load Limit in Shear <sup>2</sup>
Tybubolt Size	h <sub>e</sub>	c <sub>1</sub>	φν	V <sub>WLL</sub>
	(mm)	(mm)	(kN)	(kN)
	50	50	<b>6.2</b> [6.2]	2.0 [2.0]
Ø8		60	<b>8.2</b> [8.2]	<b>2.7</b> [2.7]
		80	9.5 [8.4]	<b>3.8</b> [3.3]
	60	60	<b>9.3</b> [9.3]	<b>3.1</b> [3.1]
Ø10		80	<b>14.3</b> [14.3]	<b>4.7</b> [4.7]
		100	<b>17.3</b> [15.3]	<b>6.7</b> [6.1]
	70	75	<b>14.4</b> [14.4]	4.8 [4.8]
Ø12		90	<b>18.9</b> [18.9]	<b>6.3</b> [6.3]
		120	<b>27.4</b> [24.3]	<b>9.7</b> [9.7]
	Ø16 80	100	<b>24.0</b> [24.0]	8.0 [8.0]
Ø16		120	<b>31.6</b> [31.6]	<b>10.5</b> [10.5]
		150	<b>39.9</b> [35.4]	<b>14.7</b> [14.1]

Load values in *grey* text inside brackets [] are for A4-70 stainless steel.

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