Flush Head Sleeve Anchor

Phone: 07 3268 7788
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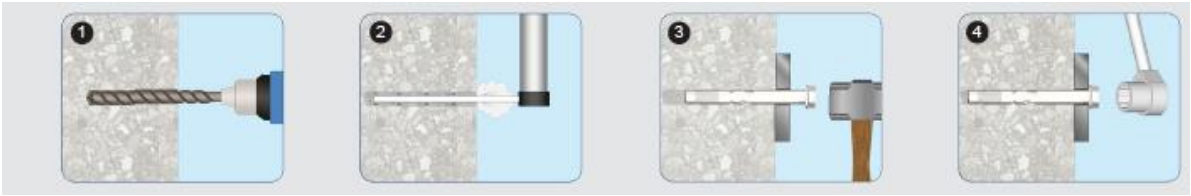
Hobson Tygabolts® are pre-assembled single unit wedge type anchors that are used in solid concrete applications. Fixing is achieved by controlled torqueing of the nut which draws the cone section up into the sleeve, thereby expanding it outward and forcing the Tygabolt™ against the sidewall of the pre-drilled 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



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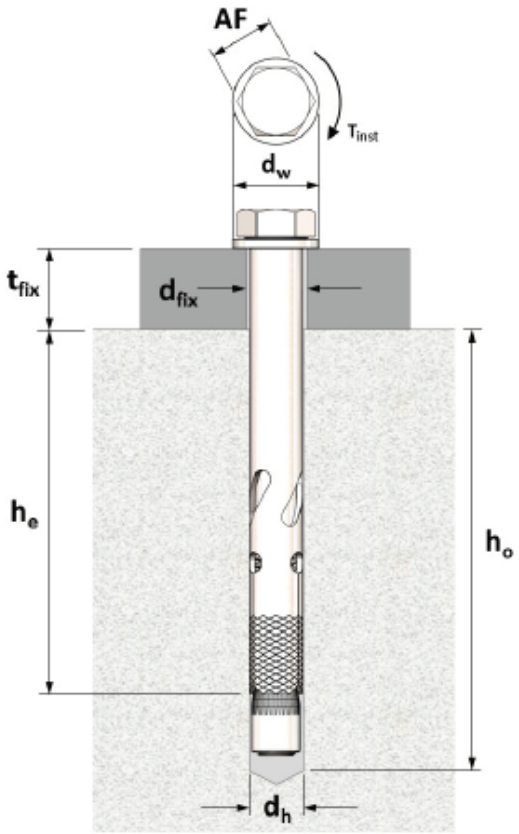
Installation Guide

Tygabolt Size	Thread Size D	Hole Ø d_h (mm)	Minimum depth $h_{e,min}$ (mm)	Hole Ø on fixture d_f (mm)	Torque Guide T_{inst} (N-m)	Wrench size AF (mm)	Flange Head Diameter d_w (mm)	Minimum concrete thickness h_{min} (mm)	Minimum spacing S_{min} (mm)	Minimum edge distance c_{min} (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

[1] 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.

[2] 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 h_e (mm)	Limit State Strength[1] ϕN (kN)	Working Load Limit in Tension[2] N_{WLL} (kN)
Ø8	40	8.4 *[8.4]*	4.6 *[4.6]*
	60	9.5 *[8.4]*	5.2 *[5.6]*
	80	9.5 *[8.4]*	5.2 *[5.6]*
Ø10	40	8.4 *[8.4]*	4.6 *[4.6]*
	70	13.0 *[13.0]*	7.2 *[10.2]*
	90	13.0 *[13.0]*	7.2 *[10.2]*
Ø12	50	11.7 *[11.7]*	6.5 *[6.5]*
	75	21.6 *[21.6]*	12.0 *[12.0]*
	100	22.5 *[32.4]*	12.5 *[16.2]*
Ø16	60	15.4 *[15.4]*	8.5 *[8.5]*
	80	19.0 *[23.8]*	10.5 *[13.2]*
	105	19.0 *[35.7]*	10.5 *[19.8]*

Tygabolt Size	Embedment Depth h_e (mm)	Edge Distance c_1 (mm)	Limit State Strength[1] ϕV (kN)	Working Load Limit in Shear[2] V_{WLL} (kN)
Ø8	50	50	6.2 *[6.2]*	2.0 *[2.0]*
		60	8.2 *[8.2]*	2.7 *[2.7]*
		80	9.5 *[8.4]*	3.8 *[3.3]*
Ø10	60	60	9.3 *[9.3]*	3.1 *[3.1]*
		80	14.3 *[14.3]*	4.7 *[4.7]*
		100	17.3 *[15.3]*	6.7 *[6.1]*
Ø12	70	75	14.4 *[14.4]*	4.8 *[4.8]*
		90	18.9 *[18.9]*	6.3 *[6.3]*
		120	27.4 *[24.3]*	9.7 *[9.7]*
Ø16	80	100	24.0 *[24.0]*	8.0 *[8.0]*
		120	31.6 *[31.6]*	10.5 *[10.5]*
		150	39.9 *[35.4]*	14.7 *[14.1]*

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

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