

HobSpec DataSheet

Drop-In Anchor



Lipped Zinc Yellow



Non-Lipped Zinc Yellow



Non-Lipped Stainless Steel

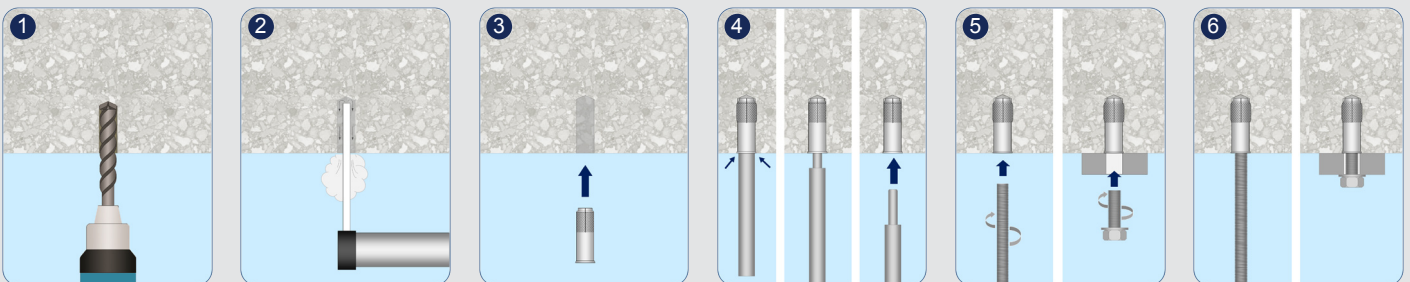
The Hobson Drop-In Anchor is a versatile medium duty anchor that delivers ample load bearing performance at shallow embedments. An expansion wedge inside the anchor is pushed towards the bottom end, thus producing expansion forces. The generated expansion force produce frictional resistance during anchor loading.

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

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

- Hand rail fastening
- Formwork support fastening
- Mechanical, electrical and pipe bracket fastening
- Hanger systems for pipes, cable trays, ducts, ceiling frames
- and many more...

Hobson Drop-In . Simple . Classic . Easy



Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering, its agencies and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

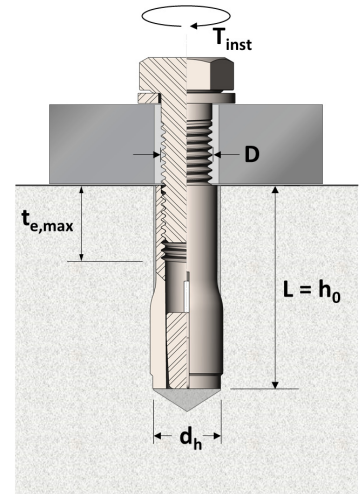
HobSpec DataSheet

Drop-In Anchor



Installation Guide

Drop-In Anchor Size	Thread size D	Hole diameter d_h (mm)	Anchor Length $L = h_0$ (mm)	Maximum thread engagement $t_{e,max}$ (mm)	Guide Torque T_{inst} (N-m)	Minimum concrete thickness h_{min} (mm)	Minimum edge distance c_{min} (mm)	Minimum anchor spacing S_{min} (mm)
M6 x 25	M6	8	25	10	4	100	95	55
M8 x 30	M8	10	30	12	8	100	95	60
M10 x 30	M10	12	30	12	15	100	100	80
M10 x 40	M10	12	40	15	15	120	135	100
M12 x 50	M12	15	50	20	35	130	165	120
M16 x 65	M16	20	65	25	60	160	200	150
M20 x 80	M20	25	80	30	120	200	260	160



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 are FOS = 2.5 for steel and FOS = 3.0 for concrete.

Drop-In Anchor Size	Depth h_e (mm)	Limit State Strength ¹ ϕN (kN)	Working Load Limit in Tension ² N_{WLL} (kN)	Drop-In Anchor Size	Depth h_e (mm)	Edge Distance	Limit State Strength ¹ ϕV (kN)	Working Load Limit in Shear ² V_{WLL} (kN)
						c_1 (mm)		
M6 x 25	25	4.10	2.30	M6 x 25	25	95	8.60	4.70
						110	10.70	5.90
						125	12.90	7.20
M8 x 30	30	5.40	3.00	M8 x 30	30	95	9.70	5.40
						120	13.80	7.60
						150	19.20	10.70
M10 x 30	30	5.40	3.00	M10 x 30	30	100	11.20	6.20
						120	14.70	8.20
						140	18.60	10.30
M10 x 40	40	8.40	4.60	M10 x 40	40	135	19.70	10.90
						150	23.00	12.80
						175	29.00	16.10
M12 x 50	50	11.70	6.50	M12 x 50	50	165	30.30	16.80
						180	34.50	19.20
						200	40.50	22.50
M16 x 65	65	17.40	9.60	M16 x 65	65	200	42.60	23.70
						220	49.20	27.30
						250	59.60	33.10
M20 x 80	80	23.80	13.20	M20 x 80	80	260	70.50	39.10
						280	78.80	43.70
						300	87.40	48.50

Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of printing, Hobson Engineering, its agencies and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.