PRODUCT DATA

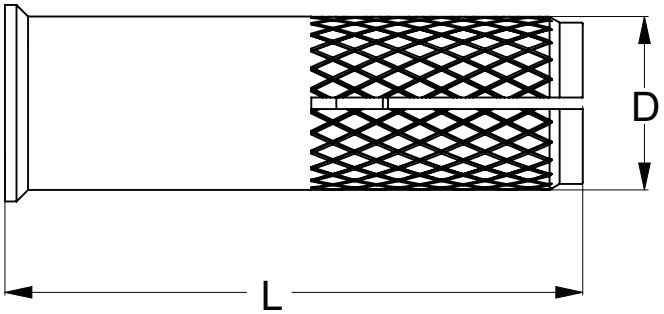
Drop-In Anchor with Lip - Zinc Yellow Passivate

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 produces frictional resistance during anchor loading.

Applications	Trades
• Hand rail fastening • Form-work support fastening • Mechanical, electrical and pipe bracket fastening • Hanger systems for pipes, cable trays, ducts and ceiling fans. • Reusable anchor point	• Installation of mechanical services • Plumbers • Electricians • HVAC Installers • Ceiling and partitioning contractors

Material	CS Carbon Steel
Finish	ZYP Zinc Yellow Passivate

Part	QFind	Internal Thread Size	Length	Drill Diameter Size	Pack Qty
			L (mm)	D (mm)	
MDLMSYCM060025	**MDL100**	M6	25	8	100
MDLMSYCM080030	**MDL101**	M8	30	10	100
MDLMSYCM100030	**MDL102**	M10	30	12	500
MDLMSYCM100040	**MDL103**	M10	40	12	500
MDLMSYCM120050	**MDL104**	M12	50	15	250



Features

- Suitable for light to medium duty loads
- Setting tool provides visual check for correct installation
- Quick and easy to install
- Immediate loading once correctly installed

Recommended Installation Tools

Drop-In Anchor Setting Tool - Red Grip

Part	QFind	Suit Anchor Size
MATR10	**MAT109**	M10

For use with:
This tool is specifically designed for setting a M10 x 30 lipped drop-in anchor.

Drop-In Setting Tool

Part	QFind	Suit Anchor Size
MATMSZM060175	**MAT102**	M6
MATMSZM080178	**MAT103**	M8
MATMSZM100177	**MAT104**	M10
MATMSZM100185	**MAT105**	M10
MATMSZM120190	**MAT106**	M12

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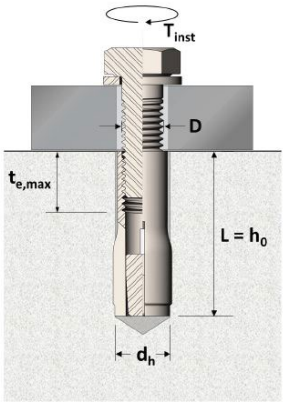
Installation Guide

Size	Thread Size	Hole Diameter	Anchor Length	Max. Thread Engagement	Guide Torque	Min. Concrete Thickness	Min. Edge Concrete	Min. Anchor Spacing
	D	d_h (mm)	L=h_0 (mm)	$t_{e,max}$ (mm)	T_{inst} (N-m)	h_{min} (mm)	c_{min} (mm)	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



Basic Load Performance in 32 MPa non-cracked concrete

[1] *Design Resistance* is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Strength reduction of ϕ = 0.60 for concrete and ϕ =0.80 for steel are already included.

[2] *Working Load* is the governing minimum allowed load obtained by comparing relevant concrete and steel working loads. Factor of safety FOS = 2.5 for steel and FOS = 3.0 concrete are already included.

Size	Depth	Design Tensile Resistance[1]	Working Load in Tension[2]
	h_e (mm)	ϕN_d (kN)	N_{WLL} (kN)
M6 x 25	25	4.1	2.3
M8 x 30	30	5.4	3.0
M10 x 30	30	5.4	3.0
M10 x 40	40	8.4	4.6
M12 x 50	50	11.7	6.5

Size	Depth	Edge Distance	Design Shear Resistance[1]	Working Load in Shear[2]
	h_e (mm)	c_1 (mm)	ϕV_d (kN)	V_{WLL} (kN)
M6 x 25	25	95	8.6	4.7
		110	10.7	5.9
		125	12.9	7.2
M8 x 30	30	95	9.7	5.4
		120	13.8	7.6
		150	19.2	10.7
M10 x 30	30	100	11.2	6.2
		120	14.7	8.2
		140	18.6	10.3
M10 x 40	40	135	19.7	10.9
		150	23.0	12.8
		175	29.0	16.1
M12 x 50	50	165	30.3	16.8
		180	34.5	19.2
		200	40.5	22.5

Installation