



Wedge Anchor B-IG

Steel, zinc plated / Stainless steel A4/316



Wedge Anchor B-IG



Wedge Anchor B-IG A4



Description

The Wedge Anchor B-IG is the internally threaded version of the European approved Wedge Anchor B. It can be installed in normal drill holes without a setting tool. Expansion is achieved by tightening the screw. The fixture can easily be removed. Smaller anchor spacings and edge distances than with drop-in anchors.

Applications

Medium duty anchorings where the use of an internal thread is required and/or anchor spacings and edge distances are smaller than those needed for drop-in anchors: suspensions, fastening of flat steel structures, ducts, ventilation systems, railings.

Range of concrete quality: C20/25 - C50/60



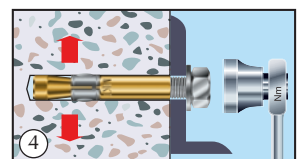
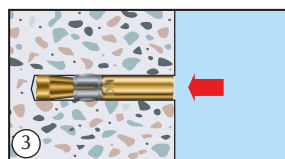
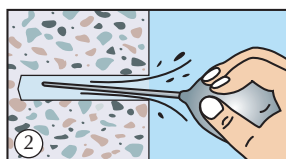
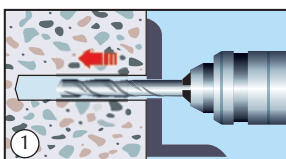
Software available

Loads and performance data			M6 x 45		M8 x 50		M10 x 60		M12 x 75	
			non-cracked concrete C25/30							
			steel 5.8	A4-70	steel 5.8	A4-70	steel 5.8	A4-70	steel 5.8	A4-70
Recommended loads, tension	rec. N	[kN]	3.00	3.00	5.20	5.20	6.70	6.70	9.60	9.60
Recommended loads, shear	rec. V	[kN]	2.00	2.00	3.00	5.30	6.90	6.90	10.70	10.70
Recommended bending moments	rec. M	[Nm]	4.10	4.90	8.10	12.00	15.90	23.90	27.90	41.90

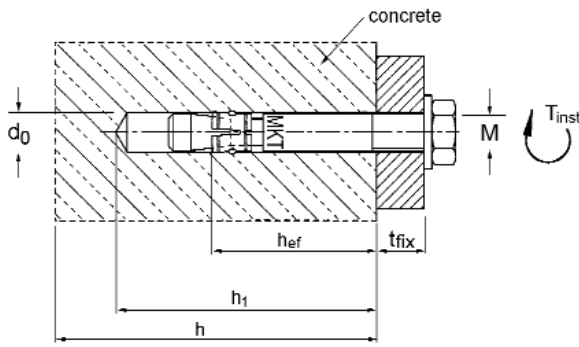
Installation parameters

Parameter	Symbol	Unit	M6 x 45	M8 x 50	M10 x 60	M12 x 75
Drill hole diameter	d_o	[mm]	8	10	12	16
Diameter of clearance hole in the fixture	d_f	[mm]	7	9	12	14
Depth of drill hole	h_1	[mm]	60	65	75	95
Effective anchorage depth	h_{ef}	[mm]	39	43	51	65
Minimum thickness of concrete slab	h	[mm]	100	100	130	170
Installation torque	T_{inst}	[Nm]	6	15	30	50

Installation of MKT B-IG Wedge Anchor



1. Drill to specified diameter and depth.
2. Clean the hole with blow-out bulb.
3. Install anchor using proper setting tool.
4. Install fixture and tighten anchor to specified torque. Refer to approval and listing for design and building code compliance.



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- Steel, zinc plated
- With internal thread

Item No	Description	Drill hole Ø x depth mm	Setting depth mm	Anchor length l mm	Thread Ø x length mm	Package content pcs.	Weight per package kg
2020806045	B-IG M 6 x 45	8 x 60	50	45	M6 x 15	100	1.48
2020808050	B-IG M 8 x 50	10 x 65	55	50	M8 x 15	100	2.38
2020810060	B-IG M 10 x 60	12 x 75	66	60	M10 x 20	50	1.98
2020812075	B-IG M 12 x 75	16 x 95	83	75	M12 x 26	25	2.38

Anchor to be installed below concrete surface.

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- Stainless steel A4/316
- With internal thread

Item No	Description	Drill hole Ø x depth mm	Setting depth mm	Anchor length l mm	Thread Ø x length mm	Package content pcs.	Weight per package kg
2020906045	B-IG M 6 x 45 A4	8 x 60	50	45	M6 x 15	100	1.48
2020908050	B-IG M 8 x 50 A4	10 x 65	55	50	M8 x 15	100	2.38
2020910060	B-IG M 10 x 60 A4	12 x 75	66	60	M10 x 20	50	1.98
2020912075	B-IG M 12 x 75 A4	16 x 95	83	75	M12 x 26	25	2.38

Anchor to be installed below concrete surface.

Recommended tension loads for single anchor without influence of spacing and edge distance, total safety factor 3.

Tension [kN]	Non-cracked concrete			
	M6	M8	M10	M12
C20/25	2.70	4.68	6.03	8.64
C25/30	3.00	5.20	6.70	9.60
C30/37	3.30	5.72	7.37	10.56
C40/50	3.81	6.60	8.50	12.19
C50/60	4.20	7.28	9.38	13.44

Recommended shear loads for single anchor without influence of spacing and edge distance and total safety factor 3.

(Zinc Plated Steel)

Shear [kN]	Non-cracked concrete			
	M6	M8	M10	M12
≥ C20/25	2.00	3.00	6.90	10.70

Recommended shear loads for single anchor without influence of spacing and edge distance and total safety factor 3.

(Stainless Steel A4/316)

Shear [kN]	Non-cracked concrete			
	M6	M8	M10	M12
≥ C20/25	2.00	5.30	6.90	10.70