

Wedge Anchor B-IG

Steel, zinc plated / Stainless steel A4/316



Wedge Anchor B-IG



Wedge Anchor B-IG A4



Range of loading: 2,9 kN–15,8 kN
Range of concrete quality: C20/25–C50/60



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. Closer anchor spacing and edge distances than with drop-in anchors.

Applications

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

Wedge Anchor B-IG



- Steel, zinc plated
- With internal thread

Description	Ref. No.	Drill hole Ø x depth mm	Setting depth ¹⁾ mm	Anchor length mm	Length of screw mm	Thread mm	Package content pcs.	Weight per package kg
B-IG M 6 x 45	03005101	8x60	51	45	t _{fix} +10	M6x15	100	1,39
B-IG M 8 x 50	03105101	10x65	57	50	t _{fix} +12	M8x15	100	2,40
B-IG M 10 x 60	03205101	12x75	71	60	t _{fix} +15	M10x20	50	1,95
B-IG M 12 x 75	03305101	16x95	84	75	t _{fix} +20	M12x26	25	2,29

¹⁾ Install Anchor below concrete surface.

Wedge Anchor B-IG A4



- Stainless steel A4/316
- With internal thread

Description	Ref. No.	Drill hole Ø x depth mm	Setting depth ¹⁾ mm	Anchor length mm	Length of screw mm	Thread mm	Package content pcs.	Weight per package kg
B-IG M 6 x 45 A4	03005501	8x60	51	45	t _{fix} +10	M6x15	100	1,41
B-IG M 8 x 50 A4	03105501	10x65	57	50	t _{fix} +12	M8x15	100	2,45
B-IG M 10 x 60 A4	03205501	12x75	71	60	t _{fix} +15	M10x20	50	1,98
B-IG M 12 x 75 A4	03305501	16x95	84	75	t _{fix} +20	M12x26	25	2,23

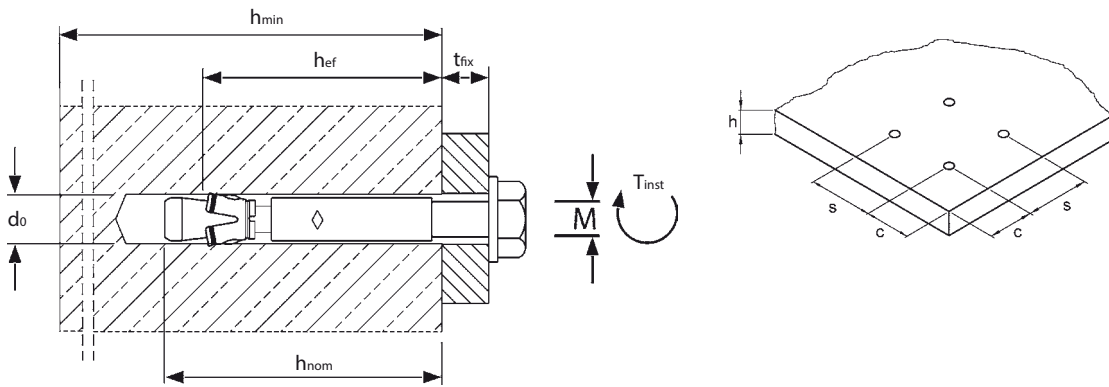
¹⁾ Install Anchor below concrete surface.

Recommended loads for Wedge Anchor B-IG

Recommended loads for single anchor without influence of spacing and edge distance. The total safety factor (γ_M and γ_P) is included.

Loads and performance data	Wedge Anchor B-IG		M 6x45		M 8x50		M 10x60		M 12x75		
			steel 5.8	A4-70	steel 5.8	A4-70	steel 5.8	A4-70	steel 5.8	A4-70	
Mean ultimate loads, tension	C25/30	Num	[kN]	10,1	14,1	18,3	19,6	24,0	25,3	36,3	37,8
Mean ultimate loads, shear	C25/30	Vum	[kN]	5,0	7,0	6,9	12,8	7,2	20,3	21,1	29,5
Recommended loads, tension	C20/25	rec. N	[kN]	4,3	4,8	5,5	5,5	7,3	7,3	10,0	10,0
		rec. N	[kN]	4,3	5,3	6,2	6,2	8,2	8,2	11,2	11,2
		rec. N	[kN]	4,3	5,3	6,7	6,7	9,0	9,0	12,2	12,2
		rec. N	[kN]	4,3	5,3	7,8	7,8	10,4	10,4	14,1	14,1
		rec. N	[kN]	4,3	5,3	8,3	8,7	11,4	11,1	15,8	15,8
Recommended loads, shear	\geq C20/25	rec. V	[kN]	2,9	3,2	3,9	5,3	4,1	6,7	14,2	15,8
Recommended bending moments		rec. M	[Nm]	4,2	4,9	10,9	12,0	28,0	23,9	45,6	41,9
Spacing and edge distance											
Effective anchorage depth		h_{ef}	[mm]	39		43		52		64	
Characteristic spacing		$s_{cr, N}$	[mm]	117		129		156		192	
Characteristic edge distance		$c_{cr, N}$	[mm]	58,5		64,5		78		96	
Minimum spacing		s_{min}	[mm]	50		55		75		90	
Minimum edge distance		c_{min}	[mm]	50		65		90		105	
Minimum thickness of concrete slab		h_{min}	[mm]	100		100		110		130	
Installation parameters											
Drill hole diameter		d_o	[mm]	8		10		12		16	
Diameter of clearance hole in the fixture		d_r	[mm]	7		9		12		14	
Depth of drill hole		h_1	[mm]	60		65		75		95	
Installation torque		T_{inst}	[Nm]	6		15		30		50	

Mechanical Heavy Duty Anchors



Installation

