

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

## Applications

Medium duty anchorings 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 fl t steel structures, ducts, ventilation systems, railings.



**Range of loading:** 2,9 kN - 15,9 kN

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

## Wedge Anchor B-IG



→ Steel, zinc plated

→ With internal thread

Description	Ref. No.	Drill hole Ø x depth mm	Setting depth <sup>1)</sup> mm	Anchor length l 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 <sub>ri</sub> +10	M6x15	100	1,39
B-IG M 8 x 50	03105101	10x65	57	50	t <sub>ri</sub> +12	M8x15	100	2,40
B-IG M 10 x 60	03205101	12x75	71	60	t <sub>ri</sub> +15	M10x20	50	1,95
B-IG M 12 x 75	03305101	16x95	84	75	t <sub>ri</sub> +20	M12x26	25	2,29

<sup>1)</sup>Install Anchor below concrete surface.

## Wedge Anchor B-IG A4



→ Stainless steel A4/316

→ With internal thread

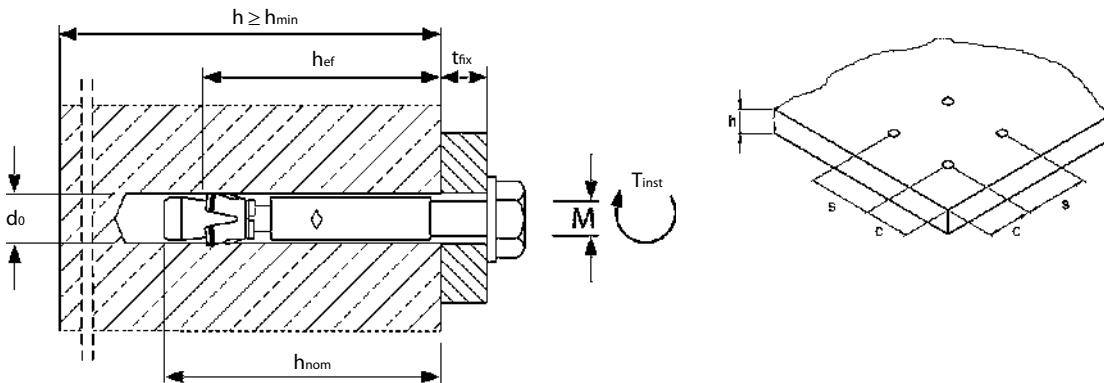
Description	Ref. No.	Drill hole Ø x depth mm	Setting depth <sup>1)</sup> mm	Anchor length l mm	Length of screw mm	Thread mm	Package content pcs.	Weight per package kg
B-IG M 6 x 45 A4	03005501	8x60	51	45	t <sub>ri</sub> +10	M6x15	100	1,41
B-IG M 8 x 50 A4	03105501	10x65	57	50	t <sub>ri</sub> +12	M8x15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

<sup>1)</sup>Install Anchor below concrete surface.

Recommended loads for single anchor without influence of spacing and edge distance.  
 Total safety factor as per ETAG included ( $\gamma_M$  and  $\gamma_F$ )

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	
non-cracked concrete										
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	5,6	5,6	7,5	7,5	10,2	10,2
	C25/30 rec. N	[kN]	4,3	5,2	6,2	6,2	8,2	8,2	11,3	11,3
	C30/37 rec. N	[kN]	4,3	5,3	6,9	6,9	9,1	9,1	12,5	12,5
	C40/50 rec. N	[kN]	4,3	5,3	8,0	8,0	10,6	10,6	14,4	14,4
Recommended loads, shear	C50/60 rec. N	[kN]	4,3	5,3	8,1	8,7	11,4	11,1	15,9	15,9
	$\geq$ 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
<b>Spacing and edge distance</b>										
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	
<b>Installation parameters</b>										
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	
Installation torque	$T_{inst}$	[Nm]	6		15		30		50	

For anchor designing, an easy to operate software on CD-ROM is available on request or can be downloaded at [www.mkt.de](http://www.mkt.de).



**Installation**

