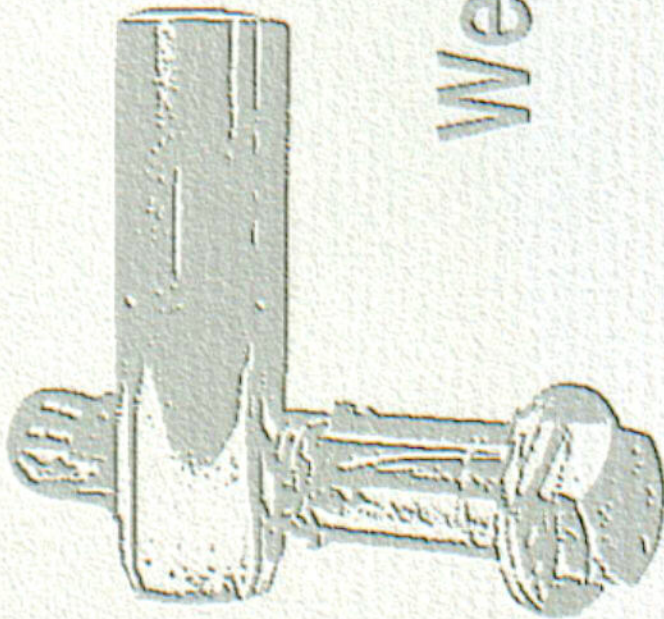




AnchorsPlus.Com

MILLER-KARR TECHNOLOGIES, INC.
800-698-9607

Wedge Anchor B



Wedge Anchor B



G 4920057

Association of
assurers
in Cologne
M8 - M16



Approved by the
fire prevention service



Dependable, economical anchor, externally threaded for medium to heavy loads
M 6 to M 20.

Efficient through fixing, torque-controlled expansion.

Steel zinc plated with a supplementary chromate treatment, hot dip galvanized and stainless steel A4 (grade 316).



Wedge Anchor B, steel zinc plated with a supplementary chromate treatment



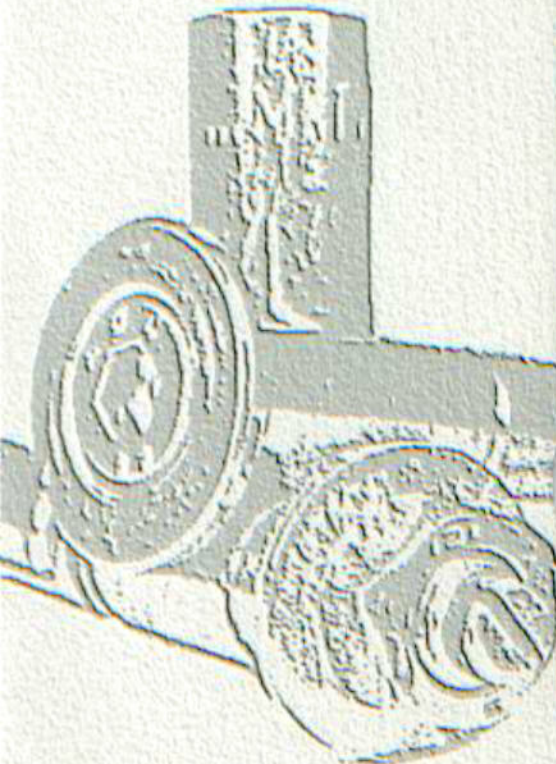
Wedge Anchor B, stainless steel

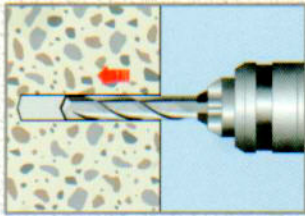


Wedge Anchor B-IG*, internally threaded, steel zinc plated with a supplementary chromate treatment

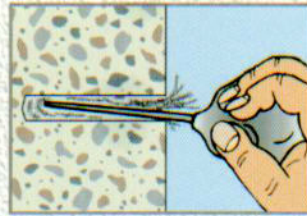


Wedge Anchor B-IG*, internally threaded, stainless steel

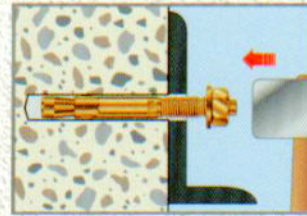




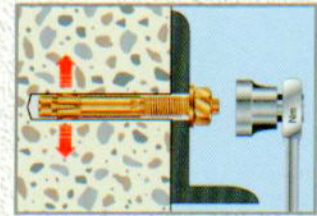
1. Drill to specified diameter and depth.



2. Clean the hole with blow-out bulb.



3. Drive anchor carefully with hammer into hole until nut and washer are flush with fixture.



4. Tighten to the recommended torque value. If the marking in the threaded part of the anchor bolt becomes visible, do not load anchor. Refer to approvals and schedules for design and building code compliance.

Installation of Wedge Anchor B

Technical data - MKT Wedge Anchor B

Part Number	Drill diameter mm	Anchor length l mm	Fixture thickness d_a mm	Thread diameter	Minimum hole depth t mm	Embedment depth $h_s \geq$ mm	Z-21.12-1091	Z-21.11-1107	Box Qty.
B 6-5/40*	6	40	5	M 6	40	30	—	—	100
B 6-10/65	6	65	10	M 6	60	50	●	—	100
B 6-25/80	6	80	25	M 6	60	50	●	—	100
B 6-40/95	6	95	40	M 6	60	50	●	—	100
B 8-5/50*	8	50	5	M 8	45	35	—	—	100
B 8-10/60*	8	60	10	M 8	50	40	—	—	100
B 8-10/75	8	75	10	M 8	65	55	●	▲	100
B 8-15/80	8	80	15	M 8	65	55	●	▲	100
B 8-20/85	8	85	20	M 8	65	55	●	▲	100
B 8-30/95	8	95	30	M 8	65	55	●	▲	100
B 8-45/110	8	110	45	M 8	65	55	●	▲	100
B 8-55/120	8	120	55	M 8	65	55	●	▲	100
B 10-10/60*	10	60	10	M 10	50	40	—	—	50
B 10-10/80	10	80	10	M 10	70	60	●	▲	50
B 10-15/85	10	85	15	M 10	70	60	●	▲	50
B 10-20/90	10	90	20	M 10	70	60	●	▲	50
B 10-45/115	10	115	45	M 10	70	60	●	▲	50
B 10-50/120	10	120	50	M 10	70	60	●	▲	50
B 10-70/140	10	140	70	M 10	70	60	●	▲	50
B 10-100/170	10	170	100	M 10	70	60	●	▲	50
B 10-140/210	10	210	140	M 10	70	60	●	▲	25
B 12-5/75*	12	75	5	M 12	60	50	—	—	25
B 12-10/95*	12	95	10	M 12	80	70	—	—	25
B 12-15/105	12	105	15	M 12	90	80	●	—	25
B 12-20/110	12	110	20	M 12	90	80	●	—	25
B 12-30/120	12	120	30	M 12	90	80	●	—	25
B 12-50/140	12	140	50	M 12	90	80	●	—	25
B 12-65/155	12	155	65	M 12	90	80	●	—	25
B 12-85/175	12	175	85	M 12	90	80	●	—	25
B 12-105/195	12	195	105	M 12	90	80	●	—	25
B 12-125/215	12	215	125	M 12	90	80	●	—	25
B 12-145/235	12	235	145	M 12	90	80	●	—	20
B 12-160/250	12	250	160	M 12	90	80	●	—	20
B 12-190/280	12	280	190	M 12	90	80	●	—	20
B 12-230/320	12	320	230	M 12	90	80	●	—	20
B 12-260/350	12	350	260	M 12	90	80	●	—	20
B 16-5/90*	16	90	5	M 16	70	60	—	—	20
B 16-15/115*	16	115	15	M 16	90	80	—	—	20
B 16-30/145	16	145	30	M 16	110	100	●	—	20
B 16-60/175	16	175	60	M 16	110	100	●	—	20
B 16-80/195	16	195	80	M 16	110	100	●	—	10
B 16-100/215	16	215	100	M 16	110	100	●	—	10
B 16-130/245	16	245	130	M 16	110	100	●	—	10
B 16-165/280	16	280	165	M 16	110	100	●	—	10
B 16-200/315	16	315	200	M 16	110	100	●	—	10
B 20-25/145*	20	145	25	M 20	110	100	—	—	10
B 20-60/180*	20	180	60	M 20	110	100	—	—	10
B 20-120/240*	20	240	120	M 20	110	100	—	—	10

● Approved for fixing in non-cracked concrete.

▲ Approved for fixing of light ceiling panels and sub-ceiling fixing applications.

* Not subject of approval.

Wedge Anchor B

Design criteria extract from approval Number Z-21.12-1091

Thread diameter		M6	M8	M10	M12	M16	
Max. permissible load (zul. F) of anchor in kN. Values applicable to axial and shear loads under any angle in non-cracked concrete.							
Concrete classification	$\geq B 25$	kN	1,5	2,8	4,0	5,7	8,4
Concrete classification	$\geq B 35$	kN	1,8	3,5	4,8	6,5	9,5
Load reduction factor of permissible load capacities, should reinforcement bar be positioned 15 cm spacing within the fixing area.							
Spacing of anchor	$a \geq$	cm	16	26	30	36	46
Edge distance	$a_r \geq$	cm	8	13	15	18	23
Base material width	$b \geq$	cm	16	26	30	36	46
Minimum base material thickness	$d \geq$	cm	15	15	20	22	25
Hole diameter through fixture	\geq mm		7	9	12	14	18
Fixing torque M_D		Nm	7,5	15	45	65	100

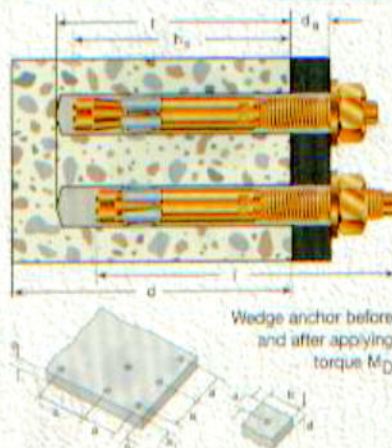
For further information please refer to DIBt-approval Number Z-21.12-1091

Design criteria extract from approval n^o. -21.11-1107

Fixing of light ceiling panels and sub-ceiling fixing applications as per DIN 18168 as well as similar fixing applications up to 1,0 kN per square meter.

Thread diameter		M6	M8
Permissible load F_D for concrete class $\geq B 25$	kN	0,8	0,8
Spacing of anchor	$a \geq$ cm	30	40
Edge distance	$a_r \geq$ cm	15	20
Hole diameter through fixture	\geq mm	9,5	11,5
Fixing torque M_D	= Nm	15	30

For further information please refer to DIBt-approval Number Z-21.11-1107



Recommended anchor F_{30} in kN, uncracked concrete $f_{cc} = 30 \text{ N/mm}^2$, safety factor $\nu = 3$ for concrete failure, safety factor $\nu = 2,2$ for steel failure. These values are not valid for the short types.

Anchor Sizes		M6	M8	M10	M12	M16	M20
Axial tension	0°	3,2	4,7	5,8	9,5	14,0	21,0
	30°	2,9	4,6	6,1	9,9	14,2	20,8
Angle tension	45°	2,8	4,6	6,3	10,2	14,3	20,8
	60°	2,7	4,6	6,5	10,4	14,3	20,7
Shear tension	90°	2,4	4,5	6,8	10,8	14,5	20,5

Technical data - MKT Wedge Anchor B - IG* (with internal thread)

Part Number	Drill diameter mm	Anchor length l mm	Thread diameter	Minimum hole depth t mm	Embedment depth $h_s \geq$ mm	Box Qty.
B - IG M 6 x 45	8	45	M 6	60	50	100
B - IG M 8 x 50	10	50	M 8	65	60	100
B - IG M 10 x 60	12	60	M 10	75	70	50
B - IG M 12 x 75	16	75	M 12	95	85	25

* Not subject of approval

Wedge anchor B-IG* with internal thread

