... eine starke Verbindung

DECLARATION OF PERFORMANCE

DoP Nr.: **MKT-1.1-202**_en

- **Unique identification code of product-type:** **Wedge Anchor B**
- **Intended use/es:** Mechanical fastener for use in concrete, see Annex B
- **Manufacturer:** MKT Metall-Kunststoff-Technik GmbH & Co.KG
  Auf dem Immel 2
  67685 Weilerbach
- **System/s of AVCP:** 1
- **European Assessment Document:** **EAD 330232-02-0601**
  European Technical Assessment: **ETA-01/0013, 29.01.2026**
  Technical Assessment Body: DIBt, Berlin
  Notified body/ies: NB 2873 – Technische Universität Darmstadt
- **Declared performance/s:**

Essential characteristics	Performance
Mechanical resistance and stability (BWR 1)	
Characteristic resistance to tension load (static and quasi-static loading) Method A	Annex B5, C1, C2
Characteristic resistance to shear load (static and quasi-static loading)	Annex C3
Displacements	Annex C4
Durability	Annex B1
Stiffness	No performance assessed
Characteristic resistance and displacements for seismic performance categories C1+C2	No performance assessed
Safety in case of fire (BWR 2)	
Reaction to fire	Class A1
Resistance to fire	No performance assessed

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 2024/3110, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Stefan Weustenhagen
(General manager)
Weilerbach, 29.01.2026

p.p.
Dipl.-Ing. Detlef Bigalke
(Head of product development)

The original of this declaration of performance was written in German. In the event of deviations in the translation, the German version shall be valid.

Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

Member of EOTA
www.eota.eu

Designated according to Article 29 of Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment)

European Technical Assessment ETA-01/0013 of 29 January 2026

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Wedge Anchor B
Product family to which the construction product belongs	Mechanical fastener for use in concrete
Manufacturer	MKT Metall-Kunststoff-Technik GmbH & Co. KG Auf dem Immel 2 67685 Weilerbach GERMANY
Manufacturing plant	MKT Metall-Kunststoff-Technik GmbH & Co. KG Auf dem Immel 2 67685 Weilerbach
This European Technical Assessment contains	16 pages including 3 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) No 2024/3110, on the basis of	EAD 330232-02-0601
This version replaces	ETA-01/0013 issued on 24 May 2022

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Specific Part

1 Technical description of the product

The Wedge anchor B is a fastener made of zinc plated steel (B, B fvz, B sh) or stainless steel (B A2, B A4, B HCR) which is placed into a drilled hole and anchored by torque-controlled expansion.

The product description is given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life according to Annex B1, use conditions. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Characteristic resistance to tension load (static and quasi static loading) Method A	See Annex B5, C1 and C2
Characteristic resistance to shear load (static and quasi static loading)	See Annex C3
Displacements	See Annex C4
Stiffness	No performance assessed
Characteristic resistance and displacements for seismic performance categories C1 and C2	No performance assessed
Durability	See Annex B1

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1
Resistance to fire	No performance assessed

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with the European Assessment Document EAD 330232-02-0601 the applicable European legal act is: [96/582/EC].

The system to be applied is: 1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 29 January 2026 by Deutsches Institut für Bautechnik

Dipl.-Ing. Beatrix Wittstock
Head of Section

beglaubigt:
Ziegler

Wedge Anchor B

B / B fvz / B sh / B A2 / B A4 / B HCR

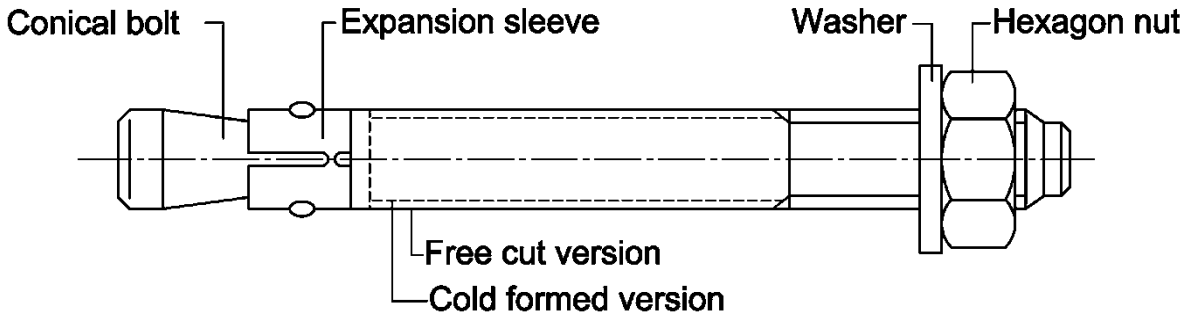


Table A1: Dimensions

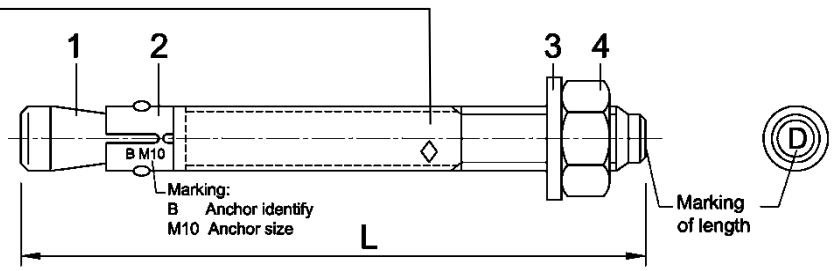
Anchor size	Anchor length L			Wrench size
	Embedment depth $h_{ef,1}$	Embedment depth $h_{ef,2}$	Embedment depth $h_{ef,3}$	
M6	$t_{fix\ hef,1}$ + 47,4	$t_{fix,hef,2}$ + 57,4	$t_{fix,hef,3}$ + 77,4	10
M8	$t_{fix\ hef,1}$ + 57,4	$t_{fix,hef,2}$ + 66,4	$t_{fix,hef,3}$ + 92,4	13
M10	$t_{fix\ hef,1}$ + 68,0	$t_{fix,hef,2}$ + 74,0	$t_{fix,hef,3}$ + 106,0	17
M12	$t_{fix\ hef,1}$ + 82,3	$t_{fix,hef,2}$ + 97,3	$t_{fix,hef,3}$ + 132,3	19
M16	$t_{fix\ hef,1}$ + 103,0 ($t_{fix\ hef,1}$ + 101,8)[1)]	$t_{fix,hef,2}$ + 121,0 ($t_{fix,hef,2}$ + 117,8)[1)]	$t_{fix,hef,3}$ + 159,0 ($t_{fix,hef,3}$ + 157,8)[1)]	24
M20	$t_{fix\ hef,1}$ + 120,7	$t_{fix,hef,2}$ + 142,7	$t_{fix,hef,3}$ + 157,7	30

[1)] Anchor version B A2 / B A4 / B HCR

Marking: e.g.: ◇ 15/21

◇ Identifying mark of manufacturing plant
15 maximum thickness of fixture for $h_{ef,2}$
21 maximum thickness of fixture for $h_{ef,1}$

additional marking:
A2 stainless steel
A4 stainless steel
HCR high corrosion resistant steel



Marking of length	A	B	C	D	E	F	G	H	I	J	K	L	M
Length of anchor min ≥	38,1	50,8	63,5	76,2	88,9	101,6	114,3	127,0	139,7	152,4	165,1	177,8	190,5
Length of anchor max <	50,8	63,5	76,2	88,9	101,6	114,3	127,0	139,7	152,4	165,1	177,8	190,5	203,2

Marking of length	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Length of anchor min ≥	203,2	215,9	228,6	241,3	254,0	279,4	304,8	330,2	355,6	381,0	406,4	431,8	457,2
Length of anchor max <	215,9	228,6	241,3	254,0	279,4	304,8	330,2	355,6	381,0	406,4	431,8	457,2	483,0

Dimensions in mm

Wedge Anchor B

Product description
Marking and Dimensions

Annex A1

Table A2: Materials

Part	Designation	Material
Zinc plated steel		
B	electroplated	≥ 5 µm according to EN ISO 4042:2022
B fvz	hot dip galvanized	≥ 50 µm (average coating thickness according to EN ISO 10684:2004+AC:2009 or EN ISO 1461:2022)
B sh	sherardized	≥ 45 µm according to EN ISO 17668:2016
1	Conical bolt	Cold formed or machined steel
2	Expansion sleeve	Stainless steel
3	Washer	Steel, zinc plated
4	Hexagon nut	Steel, zinc plated
Stainless steel		
B A2 stainless steel **CRC II** [1)]		
1	Conical bolt	Stainless steel
2	Expansion sleeve	Stainless steel
3	Washer	Stainless steel
4	Hexagon nut	Stainless steel
B A4 stainless steel **CRC III** [1)]		
1	Conical bolt	Stainless steel
2	Expansion sleeve	Stainless steel
3	Washer	Stainless steel
4	Hexagon nut	Stainless steel
B HCR High corrosion resistant steel **CRC V** [1)]		
1	Conical bolt	High corrosion resistant steel
2	Expansion sleeve	Stainless steel
3	Washer	High corrosion resistant steel
4	Hexagon nut	High corrosion resistant steel

[1)] Corrosion resistance class according to EN 1993-1-4:2015, Annex A, Table A.3

Specifications of intended use

Wedge Anchor B		**M6**	**M8**	**M10**	**M12**	**M16**	**M20**
zinc plated steel	**B** (electroplated)	✓	✓	✓	✓	✓	✓
	B fvz (hot dip galvanized)	-[1)]	✓	✓	✓	✓	✓
	B sh (sherardized)	✓	✓	✓	✓	✓	✓
stainless steel	**B A2**	✓	✓	✓	✓	✓	✓
	B A4	✓	✓	✓	✓	✓	✓
	B HCR	✓	✓	✓	✓	✓	✓
all versions	static or quasi-static action	✓					
	uncracked concrete	✓					

[1)] no performance assessed

Base materials:

- Compacted reinforced or unreinforced normal weight concrete without fibres according to EN 206:2013 + A1:2016
- Strength classes C20/25 to C50/60 according to EN 206:2013 + A1:2016

Use conditions (Environmental conditions):

For working life for at least 50 years

- Structures subject to dry internal conditions (all materials).
- For all other conditions:

Anchor version	**Use according to EN 1993-1-4:2015 corresponding to the corrosion resistance class CRC according to Annex A, Table A2**
B A2	CRC II
B A4	CRC III
B HCR	CRC V

For variable working life

- Structures subject to internal and external conditions: classification of atmospheric corrosivity, determination and estimation C1-CX according to EN ISO 9223:2012-02, Table C.1 for a variable working life according to Annex B2, Table B1:
  - carbon steel, hot dip galvanized with mean thickness ≥ 50 µm (anchor version: **B fvz**)
  - carbon steel, sherardized with mean thickness ≥ 45 µm (anchor version: **B sh**)

Design:

- Anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The position of the anchor is indicated on the design drawings (e.g. position of the anchor relative to reinforcement or to supports, etc.).
- Anchorages are designed according to EN 1992-4:2018.

Installation:

- Hole drilling by hammer drill bit or vacuum drill bit.
- Use of the fastener only as supplied by the manufacturer without exchanging the components

Wedge Anchor B	**Annex B1**
Intended use Specifications	

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Table B1: Durability for **B fvz** and **B sh** in accordance to corrosivity categories and layer thickness

Corrosivity category	**Corrosivity**	**Durability**	
		B fvz hot dip galvanized ≥ **50 µm** (see Table A3)	**B sh** sherardized ≥ **45 µm** (see Table A3)
[-]	[-]	[years]	[years]
C1	Very low	50	50
C2	Low	50	50
C3	Medium	25	22,5
C4	High	12,5	11
C5	Very high	5,5	5
CX	Extreme	2	1,5

Wedge Anchor B	**Annex B2**
Intended Use **Durability** – Working life for **B fvz** and **B sh**	

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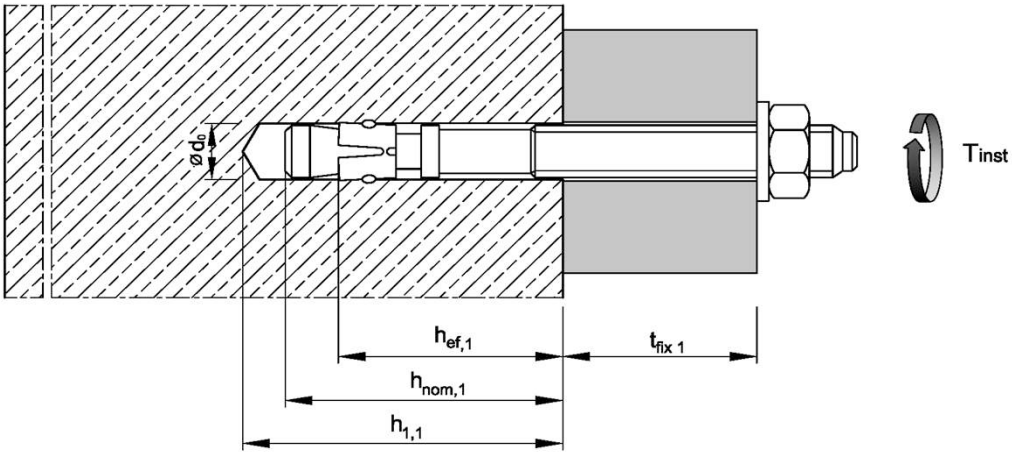
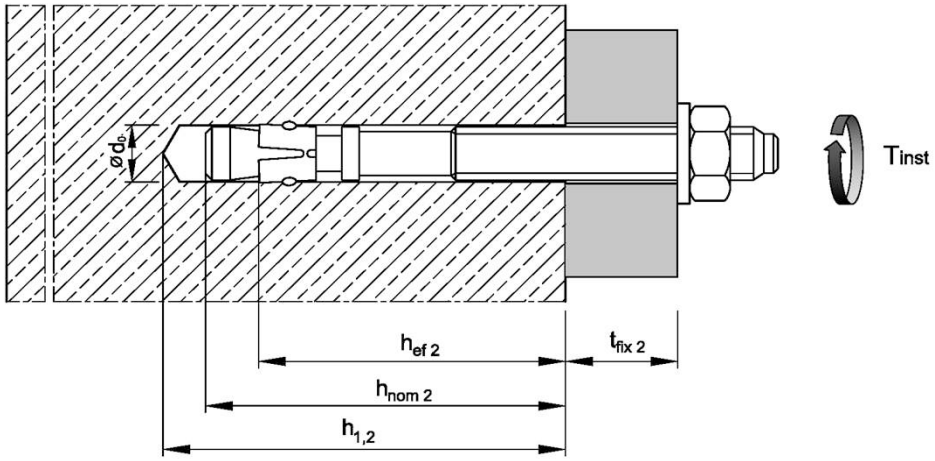
Installation condition

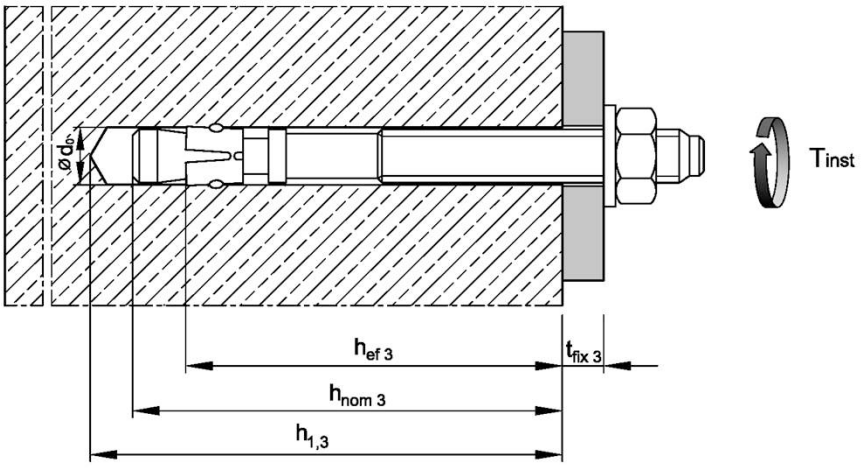
Effective embedment depths $h_{ef,1}$



Effective embedment depths $h_{ef,2}$



Effective embedment depths $h_{ef,3}$



Wedge Anchor B	**Annex B3**
Intended use Installation condition	

Table B2: Installation parameters

Anchor size				**M6**	**M8**	**M10**	**M12**	**M16**	**M20**
Nominal drill hole diameter		d_0 =	[mm]	6	8	10	12	16	20
Cutting diameter of drill bit		$d_{cut} \leq$	[mm]	6,40	8,45	10,45	12,5	16,5	20,55
Installation torque	B	T_{inst} =	[Nm]	8	15	30	50	100	200
	B fvz	T_{inst} =	[Nm]	-	15	30	40	90	120
	B sh	T_{inst} =	[Nm]	5	15	30	40	90	120
	B A2 / B A4 / B HCR	T_{inst} =	[Nm]	6	15	25	50	100	160
Diameter of clearance hole in the fixture		$d_f \leq$	[mm]	7	9	12	14	18	22
Embedment depth		$h_{ef,1} \geq$	[mm]	30	35	42	50	64	78
		$h_{ef,2} \geq$	[mm]	40	44	48	65	82 (80)[1)]	100
		$h_{ef,3} \geq$	[mm]	60	70	80	100	120	115
Depth of drill hole		$h_1 \geq$	[mm]	h_{ef} + 15	h_{ef} + 20	h_{ef} + 22	h_{ef} + 25	h_{ef} + 28	h_{ef} + 30
Embedment depth		$h_{nom} \geq$	[mm]	h_{ef} + 9	h_{ef} + 12	h_{ef} + 14	h_{ef} + 17	h_{ef} + 20	h_{ef} + 21

[1)] Anchor version B A2 / B A4 / B HCR

Wedge Anchor B

Intended use
Installation parameters

Annex B4

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Table B3: Minimum spacings and edge distances, zinc plated steel [1)]

Anchor size			M6	M8	M10	M12	M16	M20
Embedment depth $h_{ef,1}$								
Minimum member thickness	h_{min}	[mm]	80	80	100	100	130	160
Minimum spacing	s_{min}	[mm]	35	40	55	100	100	140
Minimum edge distance	c_{min}	[mm]	40	45	65	100	100	140
Embedment depth $h_{ef,2}$								
Minimum member thickness	h_{min}	[mm]	100	100	100	130	170	200
Minimum spacing	s_{min}	[mm]	35	40	55	75	90	105
Minimum edge distance	c_{min}	[mm]	40	45	65	90	105	125
Embedment depth $h_{ef,3}$								
Minimum member thickness	h_{min}	[mm]	120	126	132	165	208	215
Minimum spacing	s_{min}	[mm]	35	40	55	75	90	105
Minimum edge distance	c_{min}	[mm]	40	45	65	90	105	125

[1)] Anchor version B M6 fvz: no performance assessed

Table B4: Minimum spacings and edge distances, stainless steel

Anchor size			M6	M8	M10	M12	M16	M20
Embedment depth $h_{ef,1}$								
Minimum member thickness	h_{min}	[mm]	80	80	100	100	130	160
Minimum spacing	s_{min}	[mm]	35	60	55	100	110	140
Minimum edge distance	c_{min}	[mm]	40	60	65	100	110	140
Embedment depth $h_{ef,2}$								
Minimum member thickness	h_{min}	[mm]	100	100	100	130	160	200
Minimum spacing	s_{min}	[mm]	35	35	45	60	80	100
	for c ≥	[mm]	40	65	70	100	120	150
Minimum edge distance	c_{min}	[mm]	35	45	55	70	80	100
	for s ≥	[mm]	60	110	80	100	140	180
Embedment depth $h_{ef,3}$								
Minimum member thickness	h_{min}	[mm]	120	126	132	165	200	215
Minimum spacing	s_{min}	[mm]	35	35	45	60	80	100
	for c ≥	[mm]	40	65	70	100	120	150
Minimum edge distance	c_{min}	[mm]	35	45	55	70	80	100
	for s ≥	[mm]	60	110	80	100	140	180

Intermediate values by linear interpolation.

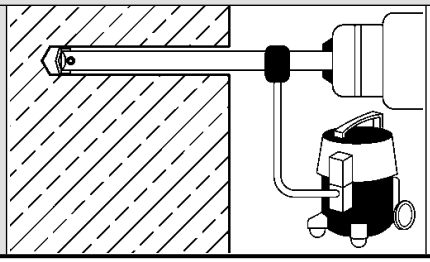
Wedge Anchor B

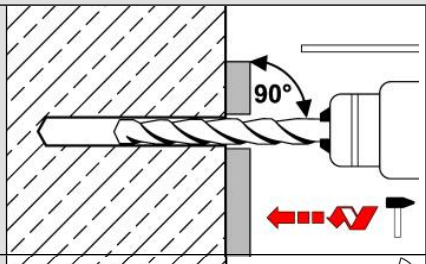
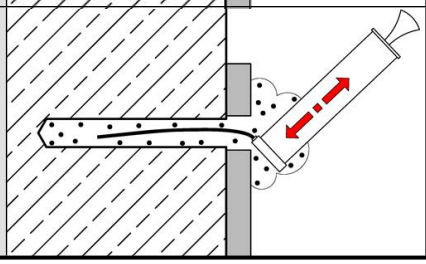
Intended use
Minimum spacings and edge distances

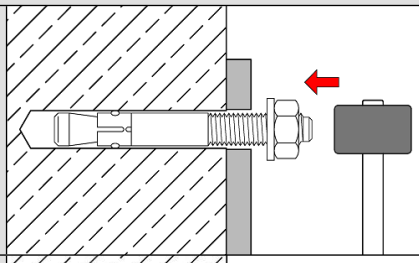
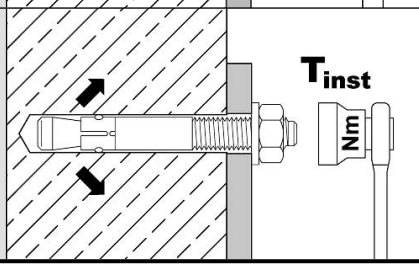
Annex B5

Deutsches Institut für Bautechnik DIBt

Installation instructions

Hole drilling and cleaning – vacuum drilling		
1		**Vacuum drilling:** Drill hole perpendicular to concrete surface. No further cleaning necessary. Proceed with step 3.

Hole drilling and cleaning – hammer drilling		
1		**Hammer drilling:** Drill hole perpendicular to concrete surface.
2		Blow out dust. Alternatively, vacuum clean down to the bottom of the hole.

Installation		
3		Drive in anchor, such that the selected embedment depth is met.
4		Apply installation torque T_{inst} as specified in Table B1.

Wedge Anchor B	**Annex B6**
Intended use Installation instructions	

Deutsches Institut für Bautechnik DIBt

Table C1: Characteristic values for **tension loads, zinc plated steel** [1)]

Anchor size				**M6**	**M8**	**M10**	**M12**	**M16**	**M20**
Installation factor		γ_{inst}	[-]	1,0					
Steel failure									
Characteristic resistance		$N_{Rk,s}$	[kN]	8,7	15,3	26	35	65	107
Partial factor [4)]		γ_{Ms}	[-]	1,5				1,6	
Pull-out									
Characteristic resistance in uncracked concrete C20/25	for $h_{ef,1}$	$N_{Rk,p,ucr}$	[kN]	6,5 [2)]	10,2 [2)]	13,4	17,4	25,2	33,9
	for $h_{ef,2}$	$N_{Rk,p,ucr}$	[kN]	10	13	16,4	25,8	36,5	49,2
	for $h_{ef,3}$	$N_{Rk,p,ucr}$	[kN]	10	13	16,4	26	40	55
Increasing factor $N_{Rk,p,ucr} = \psi_{C,ucr} \bullet N_{Rk,p,ucr}$ (C20/25)		$\psi_{C,ucr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$				$\left(\frac{f_{ck}}{20}\right)^{0,33}$	$\left(\frac{f_{ck}}{20}\right)^{0,5}$
Splitting									
Characteristic resistance		$N^0_{Rk,sp}$	[kN]	min [$N_{Rk,p,ucr}$; $N^0_{Rk,c}$ [3)]]					
Embedment depth $h_{ef,1}$									
Spacing		$s_{cr,sp}$	[mm]	180	210	230	240	320	400
Edge distance		$c_{cr,sp}$	[mm]	90	105	115	120	160	200
Embedment depth $h_{ef,2}$									
Spacing		$s_{cr,sp}$	[mm]	160	220	240	330	410	500
Edge distance		$c_{cr,sp}$	[mm]	80	110	120	165	205	250
Embedment depth $h_{ef,3}$									
Spacing		$s_{cr,sp}$	[mm]	160	220	240	330	410	520
Edge distance		$c_{cr,sp}$	[mm]	80	110	120	165	205	260
Concrete cone failure									
Effective embedment depth	for $h_{ef,1}$		[mm]	30 [2)]	35 [2)]	42	50	64	78
	for $h_{ef,2}$		[mm]	40	44	48	65	82	100
	for $h_{ef,3}$		[mm]	60	70	80	100	120	115
Spacing		$s_{cr,N}$	[mm]	3 $h_{ef\ (1,2,3)}$					
Edge distance		$c_{cr,N}$	[mm]	1,5 $h_{ef\ (1,2,3)}$					
Factor uncracked concrete		$k_{ucr,N}$	[-]	11,0					

[1)] Anchor version B M6 fvz: no performance assessed
Characteristic resistance $N_{Rk,p,cr}$ and factor $\psi_{c,cr}$ and $k_{cr,N}$ for cracked concrete: no performance assessed

[2)] Restricted to the use of structural components with $h_{ef} < 40$mm which are statically indeterminate and subject to internal exposure conditions only

[3)] $N^0_{Rk,c}$ according to EN 1992-4:2018

[4)] In absence of other national regulations

Wedge Anchor B

Performance
Characteristic values for **tension loads, zinc plated steel**

Annex C1

Table C2: Characteristic values for **tension loads, stainless steel** [1)]

Anchor size				**M6**	**M8**	**M10**	**M12**	**M16**	**M20**
Installation factor		γ_{inst}	[-]	1,0					
Steel failure									
Characteristic resistance		$N_{Rk,s}$	[kN]	10	18	30	44	88	134
Partial factor [2)]		γ_{Ms}	[-]	1,50					1,68
Pull-out									
Characteristic resistance in uncracked concrete C20/25	for $h_{ef,1}$	$N_{Rk,p,ucr}$	[kN]	6,5 [3)]	9 [3)]	12	17,4	25,2	33,9
	for $h_{ef,2}$	$N_{Rk,p,ucr}$	[kN]	8	15	16,4	25	35,2	49,2
	for $h_{ef,3}$	$N_{Rk,p,ucr}$	[kN]	8	15	16,4	25	42	60
Increasing factor $N_{Rk,p,ucr} = \psi_{C,ucr} \bullet N_{Rk,p,ucr}$ (C20/25)		$\psi_{C,ucr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$					
Splitting									
Characteristic resistance		$N^0_{Rk,sp}$	[kN]	min [$N_{Rk,p,ucr}$; $N^0_{Rk,c}$ [4)]]					
Embedment depth $h_{ef,1}$									
Spacing		$s_{cr,sp}$	[mm]	180	210	230	300	320	400
Edge distance		$c_{cr,sp}$	[mm]	90	105	115	150	160	200
Embedment depth $h_{ef,2}$									
The higher one of the decisive resistances of Case 1 and Case 2 is applicable									
Case 1	Characteristic resistance	$N^0_{Rk,sp}$	[kN]	6	9	12	20	30	40
	Spacing	$s_{cr,sp}$	[mm]	3 h_{ef}					
	Edge distance	$c_{cr,sp}$	[mm]	1,5 h_{ef}					
	Increasing factor $N^0_{Rk,sp} = \psi_{C,ucr} \bullet N^0_{Rk,sp}$ (C20/25)	$\psi_{C,ucr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$					
Case 2	Spacing	$s_{cr,sp}$	[mm]	160	220	240	340	410	560
	Edge distance	$c_{cr,sp}$	[mm]	80	110	120	170	205	280
Embedment depth $h_{ef,3}$									
Spacing		$s_{cr,sp}$	[mm]	160	220	240	340	410	620
Edge distance		$c_{cr,sp}$	[mm]	80	110	120	170	205	310
Concrete cone failure									
Effective embedment depth	for $h_{ef,1} \geq$		[mm]	30 [3)]	35 [3)]	42	50	64	78
	for $h_{ef,2} \geq$		[mm]	40	44	48	65	80	100
	for $h_{ef,3} \geq$		[mm]	60	70	80	100	120	115
Spacing		$s_{cr,N}$	[mm]	3 $h_{ef(1,2,3)}$					
Edge distance		$c_{cr,N}$	[mm]	1,5 $h_{ef(1,2,3)}$					
Factor	uncracked concrete	$k_{ucr,N}$	[-]	11,0					

[1)] Anchor version B M6 fvz: no performance assessed
Characteristic resistance $N_{Rk,p,cr}$ and factor $\psi_{c,cr}$ and $k_{cr,N}$ for cracked concrete: no performance assessed
[2)] In absence of other national regulations
[3)] Restricted to the use of structural components with $h_{ef} < 40$mm which are statically indeterminate and subject to internal exposure conditions only
[4)] $N^0_{Rk,c}$ according to EN 1992-4:2018

Wedge Anchor B

Performance
Characteristic values for **tension loads, stainless steel**

Annex C2

Deutsches Institut für Bautechnik DIBt

Table C3: Characteristic values for **shear loads**

Anchor size					**M6**	**M8**	**M10**	**M12**	**M16**	**M20**
Installation factor			γ_{inst}	[-]	1,0					
Steel failure without lever arm										
Characteristic resistance	zinc plated steel [1]		$V^0_{Rk.s}$	[kN]	5	11	17	25	44	69
	stainless steel		$V^0_{Rk,s}$	[kN]	7	12	19	27	50	86
Ductility factor			k_7	[-]	1,0					
Steel failure with lever arm										
Characteristic bending resistance	zinc plated steel [1]		$M^0_{Rk.s}$	[Nm]	9	23	45	78	186	363
	stainless steel		$M^0_{Rk,s}$	[Nm]	10	24	49	85	199	454
Partial factor [4] for $V^0_{Rk,s}$ and $M^0_{Rk,s}$	zinc plated steel [1]		γ_{Ms}	[-]	1,25				1,33	
	stainless steel		γ_{Ms}	[-]	1,25					1,4
Concrete pry-out failure										
Factor for $\mathbf{h_{ef}}$	zinc plated steel [1]		k_8	[-]	1,0	2,3	2,5	2,9	2,8	3,1
	stainless steel		k_8	[-]	1,0	2,3	2,8	2,8	3,0	3,3
Concrete edge failure										
Effective length of anchor in shear loading		for $h_{ef,1}$	l_f	[mm]	30 [2]	35 [2]	42	50	64	78
		for $h_{ef,2}$	l_f	[mm]	40	44	48	65	82 (80) [3]	100
		for $h_{ef,3}$	l_f	[mm]	60	70	80	100	120	115
Outside diameter of anchor			d_{nom}	[mm]	6	8	10	12	16	20

[1] Anchor version B M6 fvz: no performance assessed

[2] Restricted to the use of structural components which are statically indeterminate and subject to internal exposure conditions only

[3] Anchor version stainless steel

[4] In absence of other national regulations

Wedge Anchor B

Performance
Characteristic values for **shear loads**

Annex C3

Table C4: Displacements under tension load

Anchor size			M6	M8	M10	M12	M16	M20
Embedment depth $h_{ef,1}$								
zinc plated steel [1]								
Tension load	N	[kN]	2,9	5,0	6,5	8,5	12,3	16,6
Displacement	δ_{N0}	[mm]	0,3	0,4				
	$\delta_{N\infty}$	[mm]	0,6	1,8				
stainless steel								
Tension load	N	[kN]	2,9	4,3	5,7	8,5	12,3	16,6
Displacement	δ_{N0}	[mm]	0,4	0,7	0,4	0,4	0,6	1,5
	$\delta_{N\infty}$	[mm]	1,3					2,9
Embedment depth $h_{ef,2}$ and $h_{ef,3}$								
zinc plated steel [1]								
Tension load	N	[kN]	4,3	5,8	7,6	11,9	16,7	23,8
Displacement	δ_{N0}	[mm]	0,4	0,5				
	$\delta_{N\infty}$	[mm]	0,7	2,3				
stainless steel								
Tension load	N	[kN]	3,6	5,7	7,6	11,9	17,2	24,0
Displacement	δ_{N0}	[mm]	0,7	0,9	0,5	0,6	0,9	2,1
	$\delta_{N\infty}$	[mm]	1,8					4,2

[1] Anchor version B M6 fvz: no performance assessed

Table C5: Displacements under shear loads

Anchor size			M6	M8	M10	M12	M16	M20
zinc plated steel [1]								
Shear load	V	[kN]	2,9	6,3	9,7	14,3	23,6	37,0
Displacement	δ_{V0}	[mm]	1,2	1,5	1,6	2,6	3,1	4,4
	$\delta_{V\infty}$	[mm]	2,4	2,2	2,4	3,9	4,6	6,6
stainless steel								
Shear load	V	[kN]	4,0	6,9	10,9	15,4	28,6	43,7
Displacement	δ_{V0}	[mm]	1,1	2,0	1,2	2,0	2,2	2,1
	$\delta_{V\infty}$	[mm]	1,7	3,0	1,8	3,0	3,3	3,2

[1] Anchor version B M6 fvz: no performance assessed

Wedge Anchor B

Performance
Displacements

Annex C4