Deutsches Institut für Bautechnik
DIBt

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European Technical Assessment Body for construction products

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

European Technical Assessment ETA-06/0136 of 31 March 2025

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	TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR
Product family to which the construction product belongs	Mechanical fastener for use in concrete
Manufacturer	EFCO Befestigungstechnik AG Grabenstraße 1 8606 NÄNIKON SCHWEIZ
Manufacturing plant	Werk 1, Deutschland
This European Technical Assessment contains	15 pages including 3 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 330232-01-0601, Edition 05/2021
This version replaces	ETA-06/0136 issued on 9 June 2015

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Specific Part

1 Technical description of the product

The TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR is a fastener made of zinc coated steel or stainless steel which is placed into a drilled hole and anchored by application of the installation torque.

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 fastener 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 of the fastener of at least 50 years. 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 B4, C1 and C2
Characteristic resistance to shear load (static and quasi static loading)	See Annex C3
Displacements	See Annex C4
Characteristic resistance and displacements for seismic performance categories C1 and C2	No performance assessed

3.2 Safety in case of fire (BWR 2)

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

3.3 Aspects of durability

Essential characteristic	Performance
Durability	See Annex B1

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 330232-01-0601 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 European Assessment Document

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 31 March 2025 by Deutsches Institut für Bautechnik

Dipl.-Ing. Beatrix Wittstock
Head of Section

beglaubigt:
Baderschneider

TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR

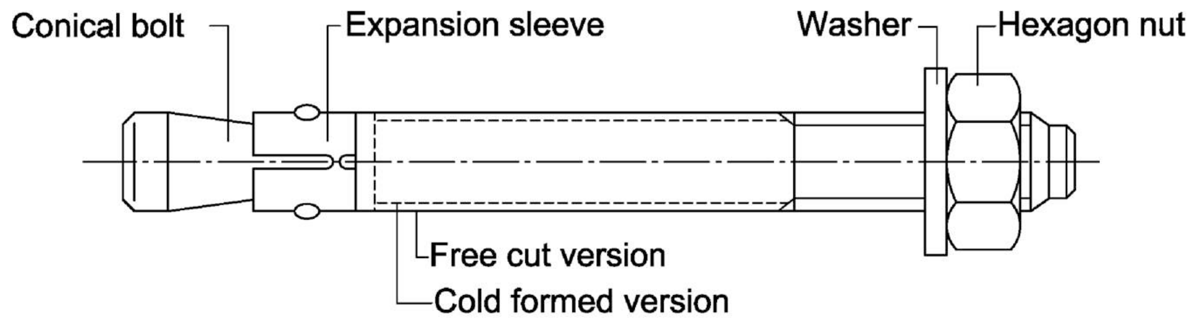


Table A1: Dimensions

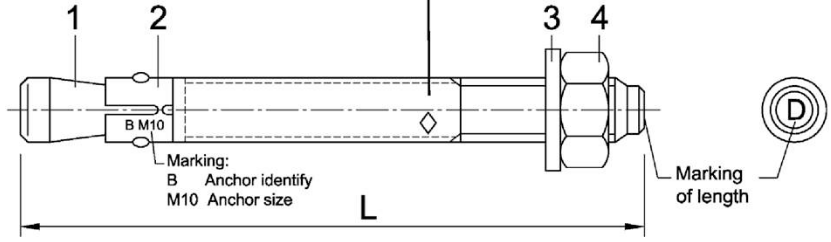
Anchor size	Anchor length L			Wrench size
	Embedment depth $h_{ef,1}$	Embedment depth $h_{ef,2}$	Embedment depth $h_{ef,3}$	
M6	$t_{fix\ hef,1}$ + 47,4	$t_{fix,hef,2}$ + 57,4	$t_{fix,hef,3}$ + 77,4	10
M8	$t_{fix\ hef,1}$ + 57,4	$t_{fix,hef,2}$ + 66,4	$t_{fix,hef,3}$ + 92,4	13
M10	$t_{fix\ hef,1}$ + 68,0	$t_{fix,hef,2}$ + 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 $h_{ef,1}$

<u>additional marking:</u>
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

Table A2: Materials

Part	Designation	Material
Zinc plated steel		
B	electroplated	≥ 5 µm according to EN ISO 4042:1999
B fvz	hot-dip galvanized	≥ 50 µm (average coating thickness according to EN ISO 10684:2004+AC:2009 or EN ISO 1461:2009)
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

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

- 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):

- 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

Design:

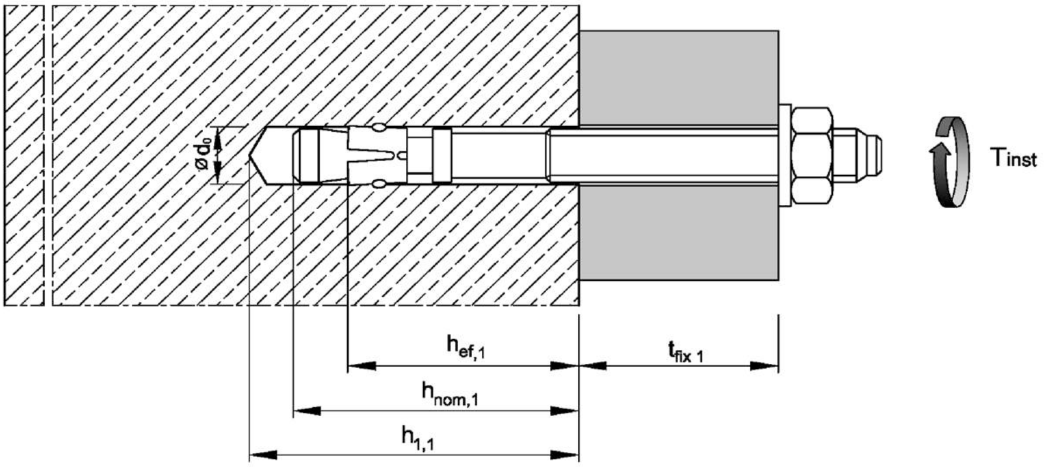
- Anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The position of the anchor is indicated on the design drawings (e.g. position of the anchor relative to reinforcement or to supports, etc.).
- Anchorages are designed according to EN 1992-4:2018 or TR 055:2018.

Installation:

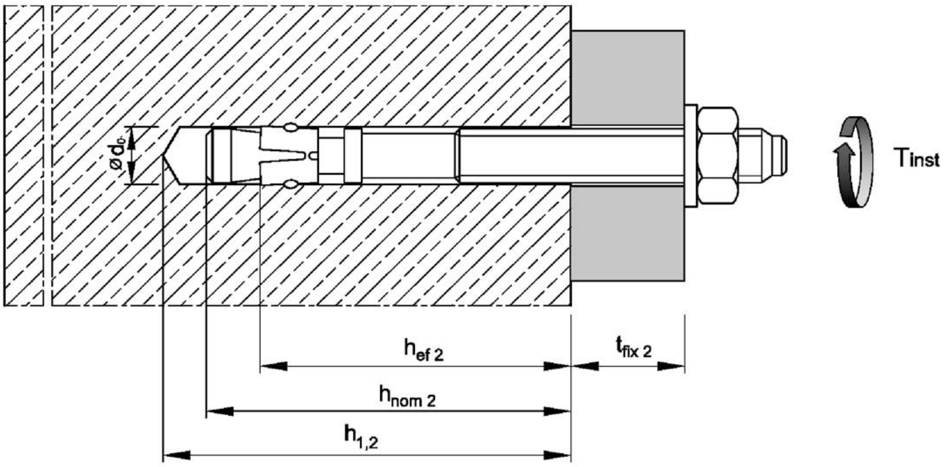
- Hole drilling by hammer drill bit or vacuum drill bit.
- Use of the fastener only as supplied by the manufacturer without exchanging the components of the fastener.
- The anchor can be set in pre- or through-setting installation.

Installation parameters

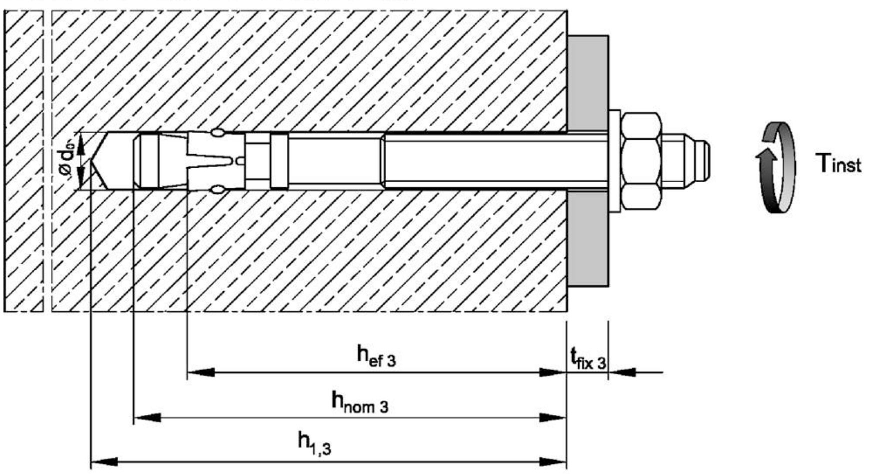
Effective embedment depths $h_{ef,1}$



Effective embedment depths $h_{ef,2}$



Effective embedment depths $h_{ef,3}$



TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR	Annex B2
Intended use Installation parameters	

Table B1: 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]	-[2)]	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 $h_{ef,1}$									
Effective embedment depth		$h_{ef,1} \geq$	[mm]	30	35	42	50	64	78
Depth of drill hole		$h_{1,1} \geq$	[mm]	45	55	65	75	95	110
Embedment depth		$h_{nom,1} \geq$	[mm]	39	47	56	67	84	99
Embedment depth $h_{ef,2}$									
Effective embedment depth		$h_{ef,2} \geq$	[mm]	40	44	48	65	82 (80)[1)]	100
Depth of drill hole		$h_{1,2} \geq$	[mm]	55	65	70	90	110	130
Embedment depth		$h_{nom,2} \geq$	[mm]	49	56	62	82	102	121
Embedment depth $h_{ef,3}$									
Effective embedment depth		$h_{ef,3} \geq$	[mm]	60	70	80	100	120	115
Depth of drill hole		$h_{1,3} \geq$	[mm]	75	91	102	125	148	145
Embedment depth		$h_{nom,3} \geq$	[mm]	69	82	94	117	140	136

1) Anchor version B A2 / B A4 / B HCR
2) No performace assessed

TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR

Intended use
Installation parameters

Annex B3

Table B2: 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 fvz: M8-M20

Table B3: 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 $c \geq$	[mm]	40	65	70	100	120	150
Minimum edge distance	c_{min}	[mm]	35	45	55	70	80	100
	for $s \geq$	[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 $c \geq$	[mm]	40	65	70	100	120	150
Minimum edge distance	c_{min}	[mm]	35	45	55	70	80	100
	for $s \geq$	[mm]	60	110	80	100	140	180

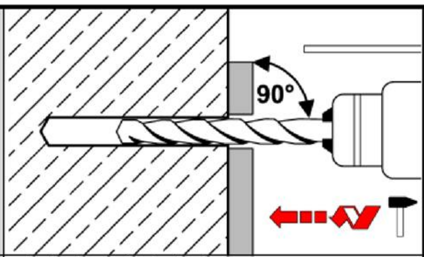
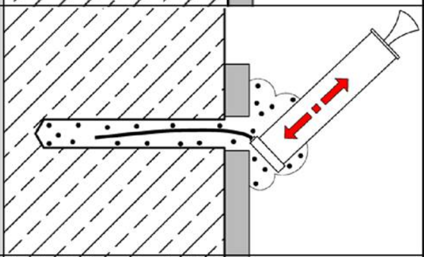
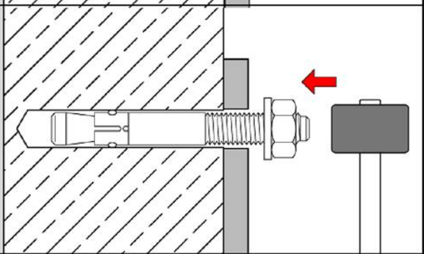
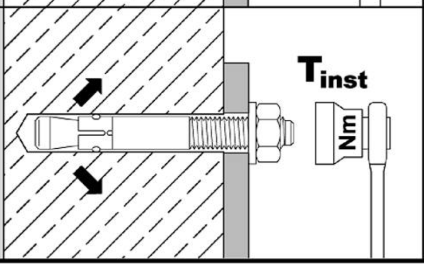
Intermediate values by linear interpolation.

TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR

Intended use
Minimum spacings and edge distances

Annex B4

Installation instructions

1		Drill hole perpendicular to concrete surface. If using a vacuum drill bit, proceed with step 3.
2		Blow out dust. Alternatively, vacuum clean down to the bottom of the hole.
3		Drive in anchor, such that the selected embedment depth is met.
4		Apply installation torque T_{inst} as specified in Table B1.

TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR	**Annex B5**
Intended use Installation instructions	

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 $h_{ef,1}$	$N_{Rk,p}$	[kN]	6,5 [2)]	10,2 [2)]	13,4	17,4	25,2	33,9
	for $h_{ef,2}$	$N_{Rk,p}$	[kN]	10	13	16,4	25,8	36,5	49,2
	for $h_{ef,3}$	$N_{Rk,p}$	[kN]	10	13	16,4	26	40	55
Increasing factor $N_{Rk,p} = \psi_C \cdot N_{Rk,p}$ (C20/25)		ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$				$\left(\frac{f_{ck}}{20}\right)^{0,33}$	$\left(\frac{f_{ck}}{20}\right)^{0,5}$
Splitting									
Characteristic resistance		$N^0_{Rk,sp}$	[kN]	min [$N_{Rk,p}$; $N^0_{Rk,c}$ [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					
	cracked concrete	$k_{cr,N}$	[-]	No performance assessed					

[1)] Anchor version B fvz: M8-M20

[2)] Restricted to the use of structural components with h_{ef} < 40mm 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

TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR	**Annex C1**
Performance Characteristic values for **tension loads, zinc plated steel**	

Table C2: Characteristic values for **tension loads, stainless steel**

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 [3]		γ_{Ms}	[-]	1,50					1,68
Pull-out									
Characteristic resistance in uncracked concrete C20/25	for $h_{ef,1}$	$N_{Rk,p}$	[kN]	6,5 [1]	9 [1]	12	17,4	25,2	33,9
	for $h_{ef,2}$	$N_{Rk,p}$	[kN]	8	15	16,4	25	35,2	49,2
	for $h_{ef,3}$	$N_{Rk,p}$	[kN]	8	15	16,4	25	42	60
Increasing factor $N_{Rk,p} = \psi_C \cdot N_{Rk,p}$ (C20/25)		ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$					
Splitting									
Characteristic resistance		$N^0_{Rk,sp}$	[kN]	min [$N_{Rk,p}$; $N^0_{Rk,c}$ [2]]					
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
Case 1	Spacing	$s_{cr,sp}$	[mm]	3 h_{ef}					
Case 1	Edge distance	$c_{cr,sp}$	[mm]	1,5 h_{ef}					
Case 1	Increasing factor $N^0_{Rk,sp} = \psi_C \cdot N^0_{Rk,sp}$ (C20/25)	ψ_C	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$					
Case 2	Spacing	$s_{cr,sp}$	[mm]	160	220	240	340	410	560
Case 2	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 [1]	35 [1]	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}					
Edge distance		$c_{cr,N}$	[mm]	1,5 h_{ef}					
Factor	uncracked concrete	$k_{ucr,N}$	[-]	11,0					
	cracked concrete	$k_{cr,N}$	[-]	No performance assessed					

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

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

[3] In absence of other national regulations

TILCA Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR	**Annex C2**
Performance Characteristic values for **tension loads, stainless steel**	

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 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 fvz: M8-M20

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

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 fvz: M8-M20

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 fvz: M8-M20