



... eine starke Verbindung

IZJAVA O LASTNOSTIH

DoP Št.: MKT-1.1-201_sl

- ❖ **Enotna identifikacijska oznaka tipa proizvoda:** Wedge sidro B / B fvz / B A2 / B A4 / B HCR
- ❖ **Predvidena uporaba:** Mehansko sidro za sidranje v betonu, glej Priloga/Annex B
- ❖ **Proizvajalec:** MKT Metall-Kunststoff-Technik GmbH & Co.KG
Auf dem Immel 2
67685 Weilerbach
- ❖ **Sistemi ocenjevanja in preverjanja nespremenljivosti lastnosti:** 1
- ❖ **Evropski ocenjevalni dokument:** **EAD 330232-01-0601**
Evropska tehnična ocena: **ETA-01/0013, 24.05.2022**
Organ za tehnično ocenjevanje: DIBt, Berlin
Priglašeni organi: NB 2873 – Technische Universität Darmstadt

❖ **Navedene lastnosti:**

| Bistvene značilnosti | Lastnosti |
|--|--------------------------|
| Mehanska odpornost in stabilnost (BWR 1) | |
| Značilen upor pri nateznem stresu (statični in kvazi-statični učinki) | Priloga/Annex B4, C1, C2 |
| Značilen odpor pri bočnem stresu (statični in kvazi-statični učinki) | Priloga/Annex C3 |
| Premiki | Priloga/Annex C4 |
| Trajnost | Priloga / Annex B1 |
| Značilna upornost in premiki za kategorijo potresne zmogljivosti C1+C2 | lastnost ni določena |
| Varnost pri požaru (BWR 2) | |
| Ogenj vedenje | Razred A1 |
| Požarna odpornost | lastnost ni določena |

Lastnosti proizvoda, navedenega zgoraj, so v skladu z navedenimi lastnostmi. Za izdajo te izjave o lastnostih je v skladu z Uredbo (EU) št. 305/2011 odgovoren izključno proizvajalec, naveden zgoraj.

Podpisal za in v imenu proizvajalca:

Stefan Weustenhagen
(Generalni direktor)
Weilerbach, 24.05.2022

p.p.

Dipl.-Ing. Detlef Bigalke
(Vodja razvoja izdelkov)



Izvirnik te izjave o uspehu je bil napisan v nemškem jeziku. V primeru odstopanj v prevodu je nemška različica veljavna.

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) | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| | B sh (sherardized) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| stainless steel | B A2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | B A4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | B HCR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| all versions | static or quasi-static action | ✓ | | | | | |
| | uncracked concrete | ✓ | | | | | |

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.

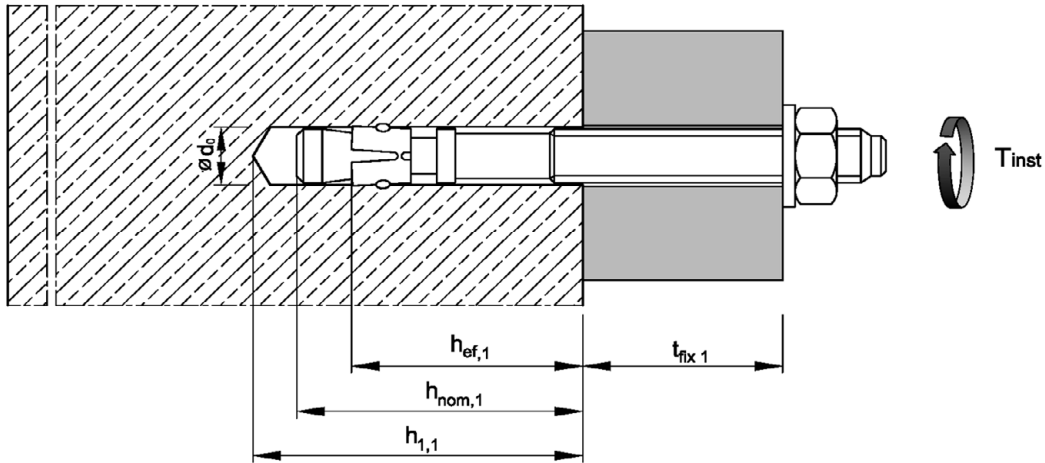
Installation:

- 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.

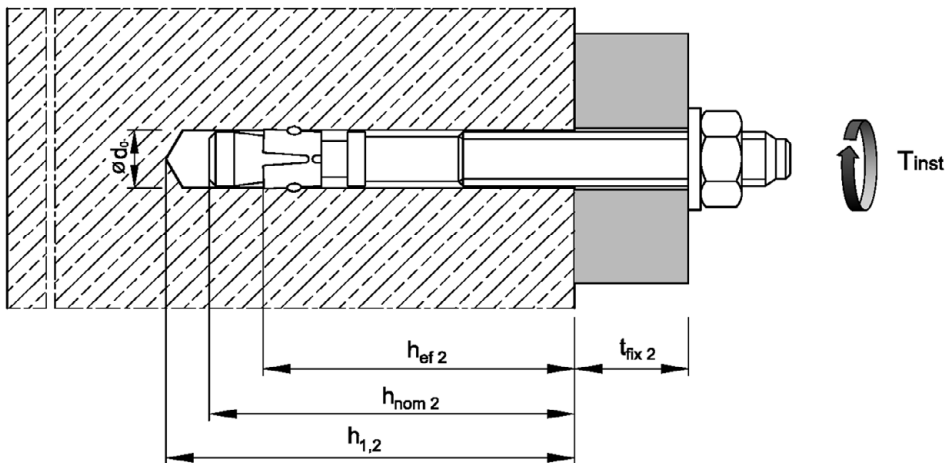
| | |
|--|-----------------|
| Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR | Annex B1 |
| Intended use Specifications | |

Installation parameters

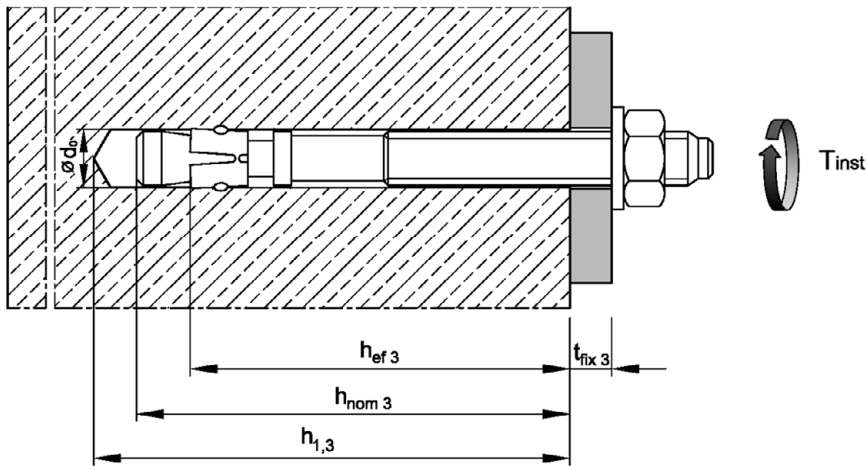
Effective embedment depths $h_{ef,1}$



Effective embedment depths $h_{ef,2}$



Effective embedment depths $h_{ef,3}$



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

Intended use
Specifications

Annex B2

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] | - | 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

| | |
|--|-----------------|
| Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR | Annex B3 |
| Intended use Installation parameters | |

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

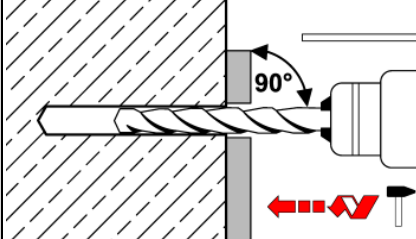
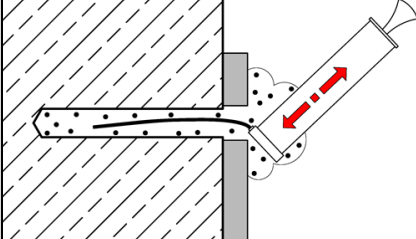
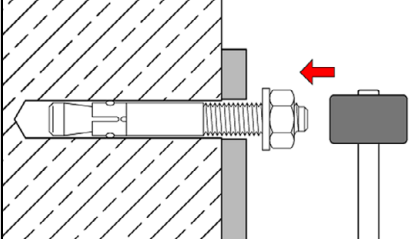
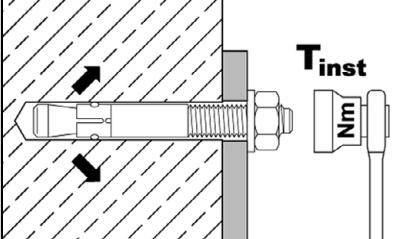
Table B3: Minimum spacings and edge distances, stainless steel

| 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.

| | |
|--|-----------------|
| Wedge Anchor B / B fvz / B sh / B A2 / B A4 / B HCR | Annex B4 |
| Intended use Minimum spacings and edge distances | |

Installation instructions

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

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

Intended use
Installation instructions

Annex B5

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 $h_{ef} < 40$ 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 / B fvz / B sh / B A2 / B A4 / B HCR

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

Annex C1

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 | |
| | Spacing | $S_{cr,sp}$ | [mm] | 3 h_{ef} | | | | | | |
| | Edge distance | $C_{cr,sp}$ | [mm] | 1,5 h_{ef} | | | | | | |
| | Increasing factor $N^0_{Rk,sp} = \psi_C \cdot N^0_{Rk,sp} (C20/25)$ | ψ_C | [-] | $\left(\frac{f_{ck}}{20}\right)^{0,5}$ | | | | | | |
| Case 2 | Spacing | $S_{cr,sp}$ | [mm] | 160 | 220 | 240 | 340 | 410 | 560 | |
| | 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 $h_{ef} < 40\text{mm}$ 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

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

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

Annex C2

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⁾ | $V_{Rk,s}^0$ | [kN] | 5 | 11 | 17 | 25 | 44 | 69 |
| | stainless steel | $V_{Rk,s}^0$ | [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⁾ | $M_{Rk,s}^0$ | [Nm] | 9 | 23 | 45 | 78 | 186 | 363 |
| | stainless steel | $M_{Rk,s}^0$ | [Nm] | 10 | 24 | 49 | 85 | 199 | 454 |
| Partial factor ⁴⁾ for $V_{Rk,s}^0$ and $M_{Rk,s}^0$ | 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

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

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 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

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

Performance
Displacements

Annex C4