



PRESTATIEVERKLARING

DoP 0291

voor fischer Drop-in Anchor EA II (mechanisch anker voor gebruik in beton)

NL

1. Unieke identificatiecode van het producttype: DoP 0291
2. Beoogd(e) gebruik(en): Bevestigingen in ongescheurd beton, zie bijlage, met name de bijlagen B1-B3.
3. Fabrikant: fischerwerke GmbH & Co. KG, Klaus-Fischer-Str. 1, 72178 Waldachtal, Duitsland
4. Gemachtigde: -
5. Het systeem of de systemen voor de beoordeling en verificatie van de prestatiebestendigheid: 1
6. Europees beoordelingsdocument: EAD 330232-01-0601
Europese technische beoordeling:
ETA-07/0135; 2021-10-20
Technische beoordelingsinstantie:
DIBt- Deutsches Institut für Bautechnik
Aangemelde instantie(s):
2873 TU Darmstadt

7. Aangegeven prestatie(s):

Mechanische weerstand en stabiliteit (BWR 1)

Kenmerkende weerstand tegen spanningsbelasting (statische en quasi-statische belasting) Methode A:

Weerstand tegen staalbreuk: Bijlage C1

Weerstand tegen uittrekken: Bijlage C1

Weerstand tegen betonnen kegelbreuk: Bijlage C1

Robuustheid Bijlage C1

Minimale rand- en hartafstand: Bijlage B2

Randafstand om spleetbreuk onder belasting te voorkomen: Bijlage C1

Kenmerkende weerstand tegen schuifbelasting (statische en quasi-statische belasting), methode A:

Weerstand tegen staalbreuk (afschuifbelasting): Bijlage C2

Weerstand tegen uitbreken (pryout): Bijlage C2

Kenmerkende weerstand voor een vereenvoudigd ontwerp:

Methode B: NPD

Methode C: NPD

Verplaatsingen:

Verplaatsingen onder statische en quasi-statische belasting: Bijlage C3

Kenmerkende weerstand en verplaatsingen voor de seismische prestatiecategorieën C1 en C2:

Trekkrachtweerstand, verplaatsingen categorie C1: NPD

Trekkrachtweerstand, verplaatsingen categorie C2: NPD

Weerstands afschuifbelasting, verplaatsingen categorie C1: NPD

Weerstands afschuifbelasting, verplaatsingen categorie C2: NPD

Factor ringvormige opening: NPD

Veiligheid in geval van brand (BWR 2)

Reactie op brand: Klasse (A1)

Weerstand tegen vuur:

Weerstand bij brand, staalbreuk (trekbelaag): NPD

Weerstand bij brand, uitbreken, (trekbelaag): NPD

Weerstand bij brand, staalbreuk (afschuifbelasting): NPD

Duurzaamheid:

Duurzaamheid: Bijlagen A3, B1

8. Geëigende technische documentatie en/of specifieke technische documentatie: -



De prestaties van het hierboven omschreven product zijn conform de aangegeven prestaties. Deze prestatieverklaring wordt in overeenstemming met Verordening (EU) nr. 305/2011 onder de exclusieve verantwoordelijkheid van de hierboven vermelde fabrikant verstrekt.

Ondertekend voor en namens de fabrikant door:

Dr.-Ing. Oliver Geibig, Directeur Business Units & Engineering
Tumlingen, 2021-10-27

Jürgen Grün, Directeur Chemie & Kwaliteit

Deze DoP is opgesteld in meerdere talen. In het geval van geschillen over de interpretatie zal de Engelse tekst altijd prevaleren.

Het aanhangsel bevat vrijwillige en aanvullende informatie in het Engels die de (taal-neutraal gespecificeerde) wettelijke vereisten overschrijdt.

Specific Part

1 Technical description of the product

The fischer drop-in anchor EA II is an anchor made of galvanized or stainless steel which is placed into a drilled hole and anchored by deformation-controlled expansion.

The fixture shall be anchored with a fastening screw or threaded rod.

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 of the anchor 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 action) Method A	See Annex B2 and C1
Characteristic resistance to shear load (static and quasi static action)	See Annex C2
Displacements and Durability	See Annex C3 and B1
Characteristic resistance and displacements for seismic performance categories C1 and C2	No performance assessed

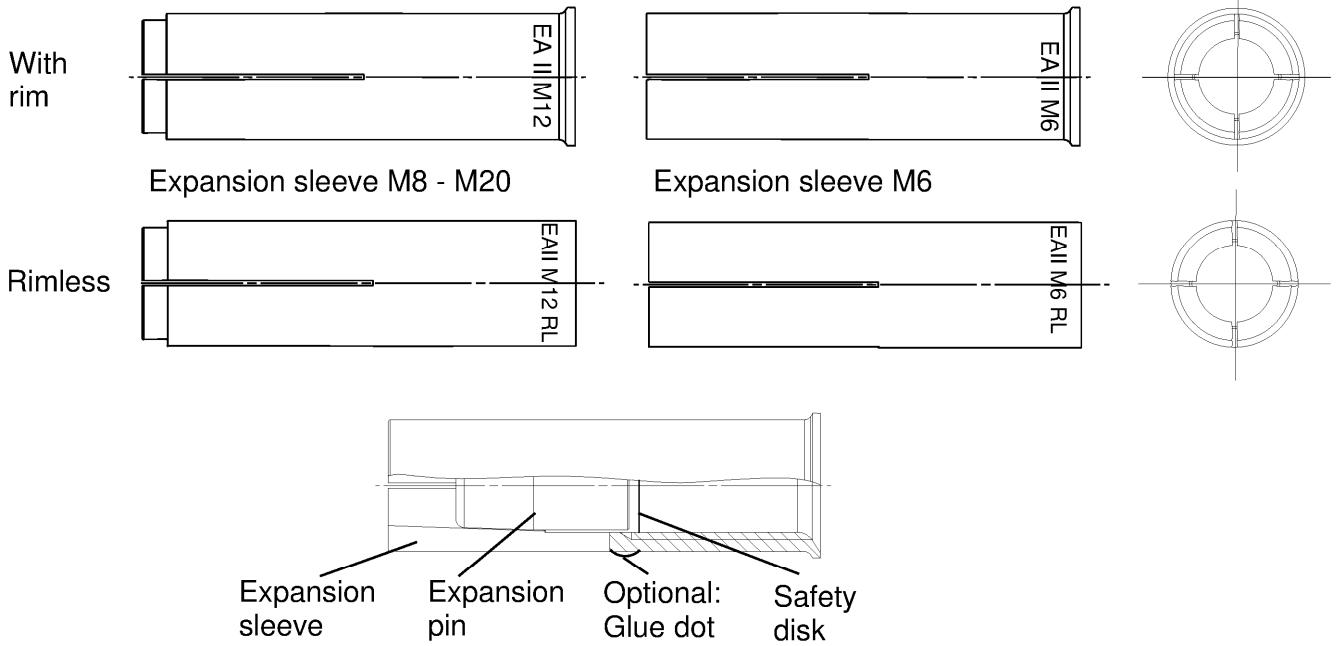
3.2 Safety in case of fire (BWR 2)

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

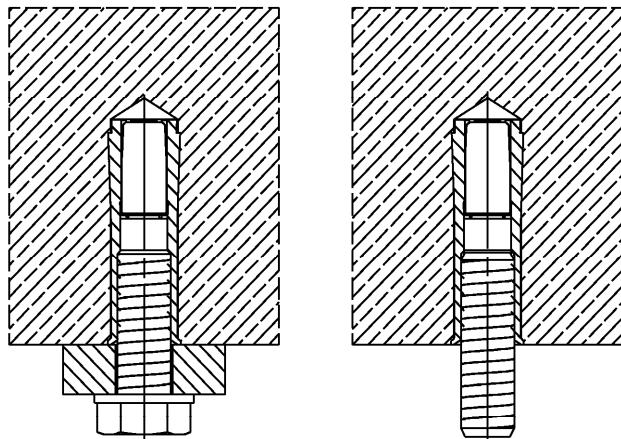
4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

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



Intended use in concrete



(Fig. not to scale)

fischer drop-in anchor EA II

Product description

Anchor types

Installed condition

Annex A 1

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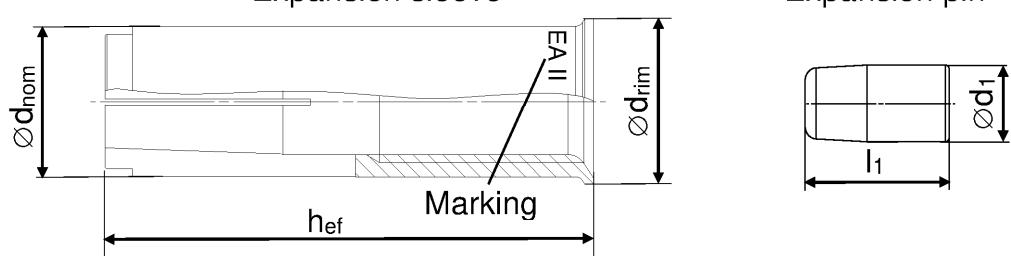


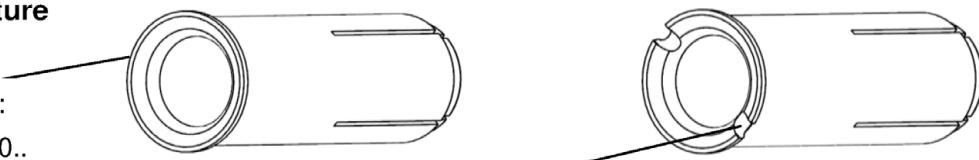
Table A2.1: Anchor size

Anchor size EA II [mm]	M6x30	M8x30	M8x40	M10x30	M10x40	M12x50	M12x50 D	M16x65	M20x80
h_{ef}	30	30	40	30	40	50	65	80	
$\varnothing d_{nom}$	8	10		12		15	16	20	25
$\varnothing d_{rim}$ (not applicable for EA II RL)	9,5	11,5		13,5		16,5	17,5	21,5	27,0
$\varnothing d_1$	5	6,5		8		10	13,5	17,5	
l_1	14	13,5		13	18	18	25	26	

Distinctive feature

No groove for:

- EA II M6x30..
- EA II M8x30..
- EA II M10x40..
- EA II M12x50..
- EA II M16x65..
- EA II M20x80..



2 grooves for:

- EA II M8x40..
- EA II M10x30..

Table A2.2: Marking on anchor body

galvanised steel (gvz)		stainless steel (R)	
with rim	rimless	with rim	rimless
☒ EA II M6x30	☒ EA II M6x30 RL	☒ EA II M6x30 R	☒ EA II M6x30 RL R
☒ EA II M8x30	☒ EA II M8x30 RL	☒ EA II M8x30 R	☒ EA II M8x30 RL R
☒ EA II M8x40	☒ EA II M8x40 RL	☒ EA II M8x40 R	☒ EA II M8x40 RL R
☒ EA II M10x30	☒ EA II M10x30 RL	☒ EA II M10x30 R	☒ EA II M10x30 RL R
☒ EA II M10x40	☒ EA II M10x40 RL	☒ EA II M10x40 R	☒ EA II M10x40 RL R
☒ EA II M12x50	☒ EA II M12x50 RL	☒ EA II M12x50 R	☒ EA II M12x50 RL R
☒ EA II M12x50 D	☒ EA II M12x50 RL D	☒ EA II M12x50 D R	☒ EA II M12x50 RL D R
☒ EA II M16x65	☒ EA II M16x65 RL	☒ EA II M16x65 R	☒ EA II M16x65 RL R
☒ EA II M20x80	☒ EA II M20x80 RL	☒ EA II M20x80 R	☒ EA II M20x80 RL R

(Fig. not to scale)

fischer drop-in anchor EA II

Product description
Anchor types

Annex A 2

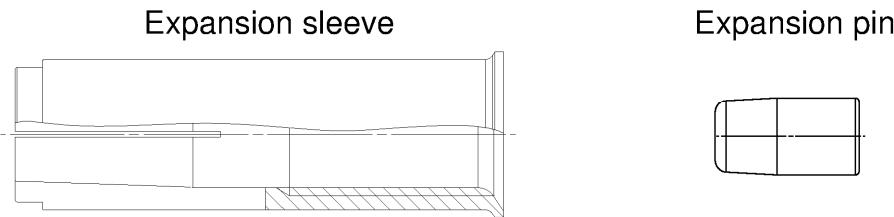


Table A3.1: Materials

Material		
Designation	galvanised steel ($\geq 5 \mu\text{m}$)	stainless steel (R)
Expansion sleeve	EN 10277:2018 or EN 10084:2008 or EN 10111:2008 or EN 10263:2018 or EN 10087:1999 or ASTM A29/A29M	EN 10088:2014
Expansion pin		
Fastening screw or threaded rod	steel, property class 4.6, 5.6, 5.8 or 8.8 according to EN ISO 898-1:2013	property class 50, 70 or 80 according to EN ISO 3506:2020

(Fig. not to scale)

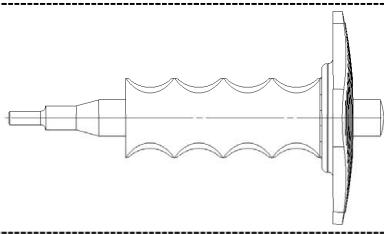
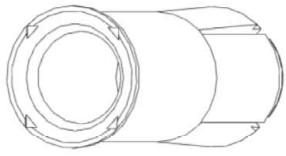
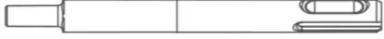
fischer drop-in anchor EA II

Product description
Material

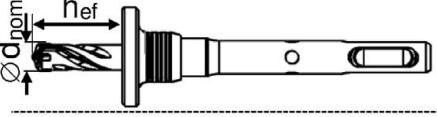
Annex A 3

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Setting & drilling tools

Setting tools	Marking	Description	Marking on EA II with rim and rimless
	EHS Plus M..x hef	Manual setting tool with hand guard	
	EHS M..x hef	Manual setting tool basic format	
	EMS M..x hef	Machine setting tool with SDS Plus	No marking

Drilling tools

	EBB $\varnothing d_{nom} \times h_{ef}$	Stop drill
Or other usual driller		

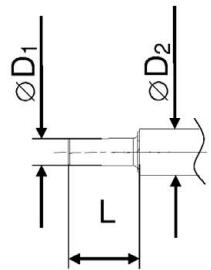


Table A4.1: Corresponding drill bits and parameters of setting tools

Manual setting tool	Machine setting tool	Stop drill	For anchor size EA II	$\varnothing D_1$ [mm]	$\varnothing D_2$ [mm]	L [mm]
EHS (Plus) M6x25/30	EMS M6x25/30	EBB 8x30	EA II M6x30	4,8	9,0	17,0
EHS (Plus) M8x25/30	EMS M8x25/30	EBB 10x30	EA II M8x30	6,4	11,0	18,0
EHS (Plus) M8x40	EMS M8x40	EBB 10x40	EA II M8x40			28,0
EHS (Plus) M10x25/30	EMS M10x25/30	EBB 12x30	EA II M10x30	7,9	13,0	18,0
EHS (Plus) M10x40	EMS M10x40	EBB 12x40	EA II M10x40			24,0
EHS (Plus) M12x50	EMS M12x50	EBB 15x50	EA II M12x50	10,2	16,5	30,0
EHS (Plus) M12x50	EMS M12x50	EBB 16x50	EA II M12x50 D			
EHS (Plus) M16x65	EMS M16x65	EBB 20x65	EA II M16x65	13,5	22	36,0
EHS (Plus) M20x80	EMS M20x80	EBB 25x80	EA II M20x80	16,4	27	50,0

(Fig. not to scale)

fischer drop-in anchor EA II

Intended Use
Setting & Drilling tools

Annex A 4

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Specifications of intended use

Anchors subject to:

fischer drop-in anchor EA II (all versions)	M6	M8	M10	M12	M16	M20
Hammer drilling with standard drill bit						
Hammer drilling with hollow drill bit with automatic cleaning				All types		
Material	Steel	Zinc plated		✓		
	Stainless	R		✓		
Static and quasi-static loads				✓		
Uncracked concrete				✓		

Base materials:

- Reinforced or unreinforced normal concrete without fibres of strength classes C20/25 to C50/60 according to EN 206:2013+A1:2016

Use conditions (Environmental conditions):

- Structures subject to dry internal conditions: **EA II, EA II R**
- For all other conditions according to EN 1993-1-4:2006 + A1:2015 corresponding to corrosion resistance class CRC III **EA II R**
Anchor types M6x30 R, M8x30 R and M10x30 R only for dry internal exposure

Design:

- Anchors are to be designed under the responsibility of an engineer experienced in anchorages and concrete work
- Verifiable calculation notes and drawings are to be 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.)
- Design of fastenings according to EN 1992-4:2018 and Technical Report TR 055, Edition February 2018
- Anchor sizes M6x30, M8x30 and M10x30 for statically indeterminate structural components only, when in case of failure, the load can be distributed to other fasteners.

Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site
- Create drill hole with hammer drill or with hollow drill and vacuum cleaner
- The anchor may only be used once
- In case of aborted hole: New hole must be drilled at a minimum distance of twice the depth of the aborted hole or closer, if the hole is filled with a high strength mortar (e.g. FIS EM Plus, FIS SB or FIS V Plus) and only if the hole is not in the direction of the oblique tensile or shear load
- Anchor expansion by impact using the setting tools given in Annex A 4. The anchor is properly set if the stop of the setting tool reaches the expansion sleeve. The manual setting tool with installation control leaves a visible mark on the sleeve, as illustrated in Annex A 4 and B 3

fischer drop-in anchor EA II

**Intended Use
Specifications**

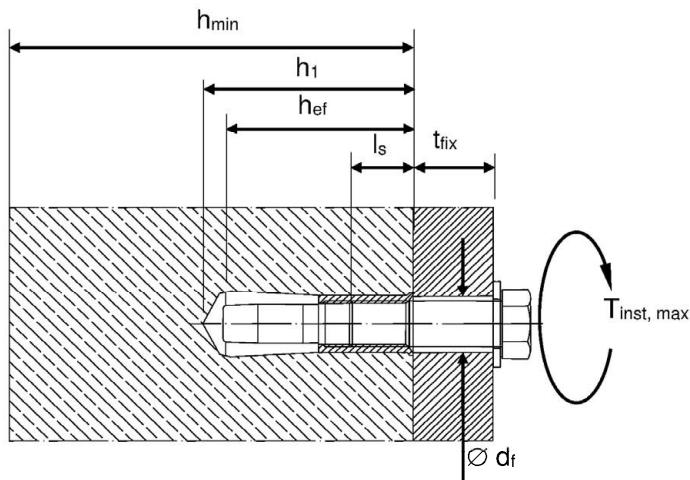
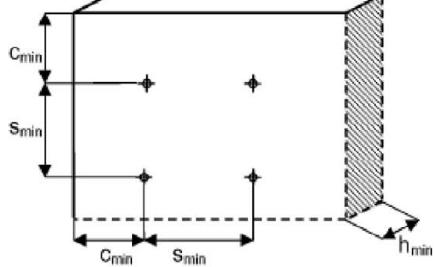
Annex B 1

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Table B2.1: Installation parameters for concrete C20/25 to C50/60

Anchor size (all versions)			M6x30	M8x30	M8x40	M10x30	M10x40	M12x50	M12x50 D	M16x65	M20x80
Nominal drill hole diameter	d_0	[mm]	8	10		12		15	16	20	25
Cutting diameter of drill bit	d_{cut}		8,45	10,45		12,50		15,50	16,50	20,55	25,55
Effective anchorage depth	h_{ef}		30	30	40	30	40	50		65	80
Maximum installation torque	$T_{inst,max}$		4	8		15		35		60	120
Minimum drill hole depth	h_1		32	33	43	33	43	54		70	85
Minimum screw-in depth	l_s,min		6	8		10		12		16	20
Maximum screw-in depth	l_s,max	[mm]	14	14		15	17	22		28	34
Clearance of hole diameter	$\emptyset d_f \leq$		7	9		12		14		18	22
$h_{min} = 80 \text{ mm}$											
Minimum spacing	s_{min}	[mm]	70	110	200	200				-1)	
Minimum edge distance	c_{min}		150	150		150				-1)	
$h_{min} = 100 \text{ mm}$											
Minimum spacing	s_{min}	[mm]	65	70	90	150			200	-1)	
Minimum edge distance	c_{min}		115	115	160	180				-1)	
$h_{min} = 120 \text{ mm}$											
Minimum spacing	s_{min}	[mm]	65	70	85	95	145			-1)	
Minimum edge distance	c_{min}		115	115	140	150	200			-1)	
$h_{min} = 160 \text{ mm}$											
Minimum spacing	s_{min}	[mm]	65	70	85	95	145	180			-1)
Minimum edge distance	c_{min}		115	115	140	150	200	240			
$h_{min} = 200 \text{ mm}$											
Minimum spacing	s_{min}	[mm]	65	70	85	95	145	180			-1)
Minimum edge distance	c_{min}		115	115	140	150	200	240			

¹⁾ No performance assessed



Fastening screw or threaded rod:

- Minimum property class and materials according to table A3.1
- The length of the fastening screw or threaded rod shall be determined depending on thickness of fixture t_{fix} , admissible tolerances and maximum screw-in depth $l_{s,max}$ as well as minimum screw-in depth $l_{s,min}$

(Fig. not to scale)

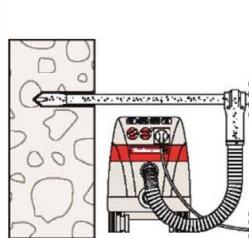
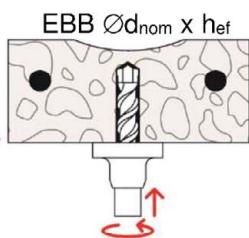
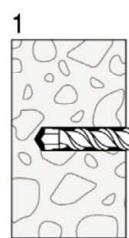
fischer drop-in anchor EA II

Intended Use
Installation parameters

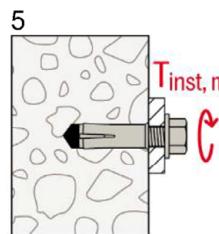
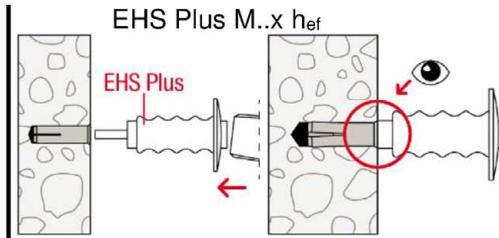
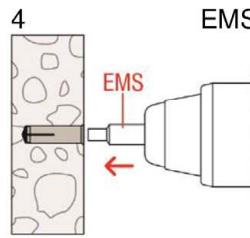
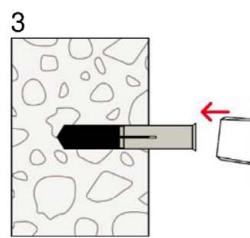
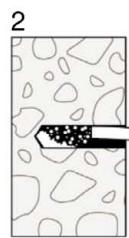
Annex B 2

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Installation instructions



next step no. 3



No. Description

- 1 Create drill hole with hammer drill or stop drill or with hollow drill and vacuum cleaner (e.g. fischer FVC)
- 2 Clean from drill-dust
- 3 Set anchor till anchor is flush with surface of concrete
- 4 Expand the sleeve by driving the pin with the corresponding setting tool into the sleeve and control the correct setting
- 5 Fixation of fixture. Maximum installation torque $T_{inst,max}$ must not be exceeded

fischer drop-in anchor EA II

Intended Use
Installation instructions

Annex B 3

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Table C1.1: Characteristic values for tension loads under static and quasi-static action

EA II	property class of the fastening screw or threaded rod	M6x30 ¹⁾	M8x30 ¹⁾	M8x40	M10x30 ¹⁾	M10x40	M12x50 D	M12x50 D	M16x65	M20x80						
Steel failure																
Installation factor	γ_{inst} [-]	1,0														
Characteristic resistance	$N_{Rk,s}$ [kN]	A4-50	10,1	18,3	29,0	42,1	78,3	122,4								
Partial factor	$\gamma_{Ms}^{(4)}$ [-]				2,86											
Characteristic resistance	$N_{Rk,s}$ [kN]	A4-70	14,1	19,6	24,9	45,1	59,0	73,8	117,2							
Partial factor	$\gamma_{Ms}^{(4)}$ [-]		1,87		1,5		1,87		1,5							
Characteristic resistance	$N_{Rk,s}$ [kN]	A4-80	16,1	19,6	24,9	45,1	59,0	73,8	117,2							
Partial factor	$\gamma_{Ms}^{(4)}$ [-]		1,6		1,5											
Characteristic resistance	$N_{Rk,s}$ [kN]	steel 4,6	8,0	14,6	23,2	33,7	62,7	97,9								
Partial factor	$\gamma_{Ms}^{(4)}$ [-]				2,0											
Characteristic resistance	$N_{Rk,s}$ [kN]	steel 5,6	10,1	18,3	29,0	42,1	78,3	122,4								
Partial factor	$\gamma_{Ms}^{(4)}$ [-]				2,0											
Characteristic resistance	$N_{Rk,s}$ [kN]	steel 5,8	10,1	17,2	21,8	39,6	42,1	64,7	102,8							
Partial factor	$\gamma_{Ms}^{(4)}$ [-]				1,5											
Characteristic resistance	$N_{Rk,s}$ [kN]	steel 8,8	13,5	17,2	21,8	39,6	53,3	64,7	102,8							
Partial factor	$\gamma_{Ms}^{(4)}$ [-]				1,5											
Pullout failure																
Characteristic resistance C20/25	$N_{Rk,p}$	[kN]	8,1	12,5	8,1	12,5	17,4	25,8	35,2							
Increasing Factors for $N_{Rk,p}$	ψ_c	C25/30				1,12										
		C30/37				1,22										
		C35/45				1,32										
		C40/50				1,41										
		C45/55				1,50										
		C50/60				1,58										
Installation factor	γ_{inst}	[-]				1,0										
Concrete cone and splitting failure																
Effective anchorage depth	h_{ef}	[mm]	30	40	30	40	50	65	80							
Factor for uncracked concrete	$k_{ucr,N}$	[-]			11,0 ²⁾											
Factor for cracked concrete	$k_{cr,N}$	[-]			No performance assessed											
Spacing	$s_{cr,N}$	[mm]	90	120	90	120	150	195	240							
Edge distance	$c_{cr,N}$	[mm]	45	60	45	60	75	97	120							
Spacing (splitting failure)	$s_{cr,sp}$	[mm]	210	280	210	320	350	455	560							
Edge distance (splitting failure)	$c_{cr,sp}$	[mm]	105	140	105	160	175	227	280							
Characteristic resistance to splitting	$N^0_{Rk,sp}$	[kN]			min { $N^0_{Rk,c}$, $N_{Rk,p}$ } ³⁾											
¹⁾ Use restricted to anchoring of structural components which are statically indeterminate																
²⁾ Based on concrete strength as cylinder strength																
³⁾ $N^0_{Rk,c}$ according to EN 1992-4:2018																
⁴⁾ In absence of other national regulations																
fischer drop-in anchor EA II								Annex C 1								
Performances																
Characteristic resistance to tension loads under static and quasi-static action								Appendix 9 / 11								

Table C2.1: Characteristic values for shear loads under static and quasi-static action

EA II	property class of the fastening screw or threaded rod	M6x30 ¹⁾	M8x30 ¹⁾	M8x40	M10x30 ¹⁾	M10x40	M12x50	M12x50 D	M16x65	M20x80
Factor for ductility	k_7 [-]							1,0		
Installation factor	γ_{inst} [-]							1,0		
Steel failure without lever arm										
Characteristic resistance	$V^0_{Rk,s}$ [kN]	A4-50	5,0	9,2	14,5	21,1	39,2	61,2		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				2,38					
Characteristic resistance	$V^0_{Rk,s}$ [kN]	A4-70	7,0	9,8	12,4	22,6	29,5	37	59	
Partial factor	$\gamma_{Ms}^{2)}$ [-]		1,56		1,25		1,56		1,25	
Characteristic resistance	$V^0_{Rk,s}$ [kN]	A4-80	8,0	9,8	12,4	22,6	30,4	36,9	58,6	
Partial factor	$\gamma_{Ms}^{2)}$ [-]		1,33		1,25					
Characteristic resistance	$V^0_{Rk,s}$ [kN]	steel 4.6	4,0	7,3	11,6	16,9	31	49		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,67					
Characteristic resistance	$V^0_{Rk,s}$ [kN]	steel 5.6	5,0	9,2	14,5	21,1	39	61		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,67					
Characteristic resistance	$V^0_{Rk,s}$ [kN]	steel 5.8	5,0	8,6	10,9	19,8	21,1	32	51	
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,25					
Characteristic resistance	$V^0_{Rk,s}$ [kN]	steel 8.8	6,8	8,6	10,9	19,8	27	32	51	
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,25					
Steel failure with lever arm										
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	A4-50	8	19	37	66	166	324		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				2,38					
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	A4-70	11	26	52	92	232	454		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,56					
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	A4-80	12	30	60	105	266	519		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,33					
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	steel 4.6	6,1	15	30	52	133	259		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,67					
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	steel 5.6	7,6	19	37	66	166	324		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,67					
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	steel 5.8	7,6	19	37	66	166	324		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,25					
Characteristic resistance	$M^0_{Rk,s}$ [Nm]	steel 8.8	12	30	60	105	266	517		
Partial factor	$\gamma_{Ms}^{2)}$ [-]				1,25					
Concrete prout failure										
Factor for prout failure	k_8 [-]		1,74	1,9	1,74	1,9			2,0	
Concrete edge failure										
Effective length of anchor	l_f [mm]		30	40	30	40	50	65	80	
Effective diameter of anchor	d_{nom} [mm]		8	10	12	15	16	20	25	
1) Use restricted to anchoring of structural components which are statically indeterminate										
2) In absence of other national regulations										
fischer drop-in anchor EA II								Annex C 2		
Performances Characteristic resistance to shear loads under static and quasi-static action										
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Table C3.1: Displacements under tension and shear loads for EA II in galvanised steel

EA II			M6x30	M8x30	M8x40	M10x30	M10x40	M12x50	M12x50 D	M16x65	M20x80
Tension load in C20/25 to C50/60	N	[kN]	4,0	6,1	4,0	6,1	8,5	12,6	17,2		
Displacement	δ_{N_0}	[mm]	0,1								
	δ_{N_∞}	[mm]	0,2								
Shear load in C20/25 to C50/60	V	[kN]	3,9	4,9	6,2	11,3	15,2	18,5	29,4		
Displacement	δ_{V_0}	[mm]	0,95	1,00	1,05	1,10	1,40	1,80			
	δ_{V_∞}	[mm]	1,40	1,50	1,60	1,70	2,10	2,70			

Table C3.2: Displacements under tension and shear loads for EA II in stainless steel

EA II R			M6x30	M8x30	M8x40	M10x30	M10x40	M12x50	M12x50 D	M16x65	M20x80
Tension load in C20/25 to C50/60	N	[kN]	4,0	6,1	4,0	6,1	8,5	12,6	17,2		
Displacement	δ_{N_0}	[mm]	0,1								
	δ_{N_∞}	[mm]	0,2								
Shear load in C20/25 to C50/60	V	[kN]	3,2	5,6	7,1	12,9	13,5	21,1	33,5		
Displacement	δ_{V_0}	[mm]	0,95	1,00	1,05	1,10	1,40	1,80			
	δ_{V_∞}	[mm]	1,40	1,50	1,60	1,70	2,10	2,70			

fischer drop-in anchor EA II

Performances
 Displacements
Annex C 3

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