DECLARATION OF PERFORMANCE
NR. LE_0904520801_04_M_W-FAZ

LANGUAGE VERSIONS :

Language	Site
EN	2
ETA–99/0011 (EN)	3
BG	39
CZ	41
DA	43
DE	45
ES	47
ET	49
FI	51
FR	53
GA	55
GR	57
HR	59
HU	61
IT	63
LT	65
LV	67
MT	69
NL	71
NO	73
PL	75
PT	77
RO	79
RU	81
SE	83
SK	85
SL	87
TR	89

DECLARATION OF PERFORMANCE

Nr. LE_0904520801_04_M_W-FAZ

This is an English translation of the original German wording.
In cases of doubt, the German version applies

1. Unique identification code of the product type: Würth Fixanchor W-FAZ und W-FAZ-IG
   Art.-Nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   excluded are following Art.-No. 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Intended use(s): Mechanical anchor for use in concrete
3. Manufactured by: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. System(s) of assessment and verification of constancy of performance: System 1
5. European Assessment Document: EAD 330232-00-0601,
   European Technical Assessment: ETA-99/0011 - 02.10.2018
   Technical Assessment Body: Deutsches Institut für Bautechnik (DIBt), Berlin
   Notified Body or Bodies: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Declared performance(s):

Essential Characteristics	Performance	Harmonised Technical Specification
Mechanical resistance and stability (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Characteristic resistance to tension load (static and quasi-static loading)	for W-FAZ see Annex C1 to C4 for W-FAZ-IG see Annex C11 to C12	
Characteristic resistance to shear load (static and quasi-static loading)	for W-FAZ see Annex C5 for W-FAZ-IG see Annex C13	
Displacements (static and quasi-static loading)	for W-FAZ see Annex C9 to C10 for W-FAZ-IG see Annex C15	
Characteristic resistance and displacements for seismic performance categories C1 and C2	for W-FAZ see Annex C6, C9 and C10	
Safety in case of fire (BWR 2)		
Reaction to fire	Class A1	
Resistance to fire	for W-FAZ see Annex C7 to C8 for W-FAZ-IG see Annex C14	

The performance of the product identified above corresponds to the declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Frank Wolpert
Authorized Signatory, Head of Market Division

Dr. –Ing. Siegfried Beichter
Authorized Signatory, Head of Quality

Künzelsau, 22/02/2021

Deutsches Institut für Bautechnik

Member of EOTA
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Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

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

European Technical Assessment ETA-99/0011 of 2 October 2018

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	Würth Fixanchor W-FAZ and W-FAZ-IG
Product family to which the construction product belongs	Mechanical fastener for use in concrete
Manufacturer	Adolf Würth GmbH & Co. KG Reinhold-Würth-Straße 12 -17 74653 Künzelsau DEUTSCHLAND
Manufacturing plant	Herstellwerk W1, Deutschland
This European Technical Assessment contains	36 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 330232-00-0601
This version replaces	ETA-99/0011 issued on 8 April 2016

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Specific Part

1 Technical description of the product

The Wedge anchor W-FAZ and W-FAZ-IG is an fastener made of zinc plated steel, stainless steel or high corrosion resistant steel which is placed into a drilled hole and anchored by torque-controlled expansion. The following fastener types are covered:

- Fastener type W-FAZ with external thread, washer and hexagon nut, sizes M8 to M27,
- Fastener type W-FAZ-IG S with internal thread, hexagon head nut and washer S-IG, sizes M6 to M12,
- Fastener type W-FAZ-IG SK with internal thread, countersunk head screw and countersunk washer SK-IG, sizes M6 to M12,
- Fastener type W-FAZ-IG B with internal thread, hexagon nut and washer MU-IG, sizes M6 to M12.

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)	for W-FAZ see Annex C1 to C4 for W-FAZ-IG see Annex C11 to C12
Characteristic resistance to shear load (static and quasi-static loading)	for W-FAZ see Annex C5 for W-FAZ-IG see Annex C13
Displacements (static and quasi-static loading)	for W-FAZ see Annex C9 to C10 for W-FAZ-IG see Annex C15
Characteristic resistance and displacements for seismic performance categories C1 and C2	for W-FAZ see Annex C6, C9 and C10

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1
Resistance to fire	for W-FAZ see Annex C7 to C8 for W-FAZ-IG see Annex C14

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 330232-00-0601 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 2 October 2018 by Deutsches Institut für Bautechnik

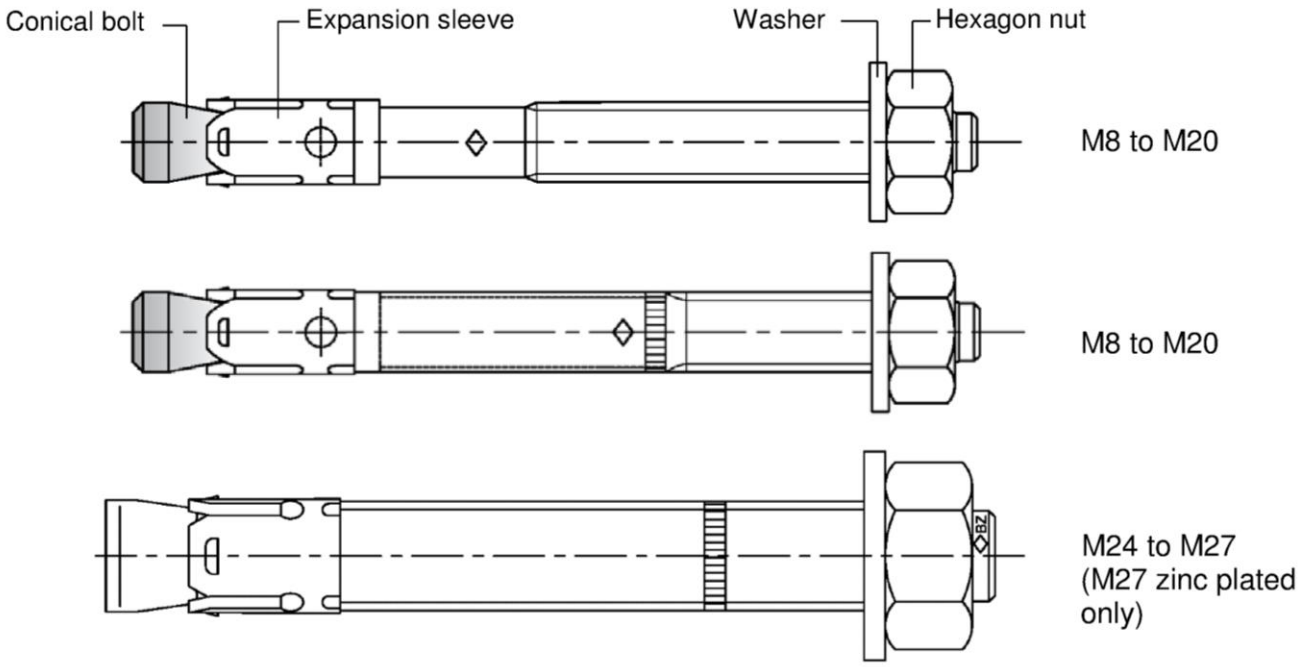
BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Baderschneider

Deutsches Institut für Bautechnik DIBt

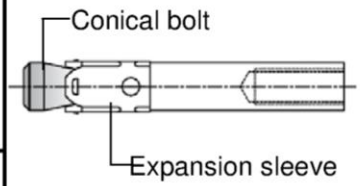
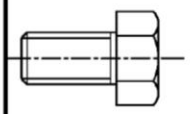
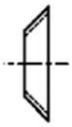
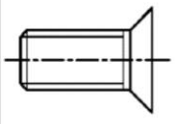
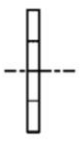
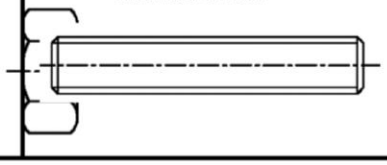
Fastener version	Product description	Intended use	Performance
W-FAZ	Annex A1 - Annex A4	Annex B1 – Annex B7	Annex C1 – Annex C10
W-FAZ-IG	Annex A1 Annex A5 – Annex A7	Anhang B1 – Anhang B2 Anhang B8 – Anhang B10	Anhang C11 – Anhang C15

Fixanchor W-FAZ



Fixanchor W-FAZ-IG M6 to M12

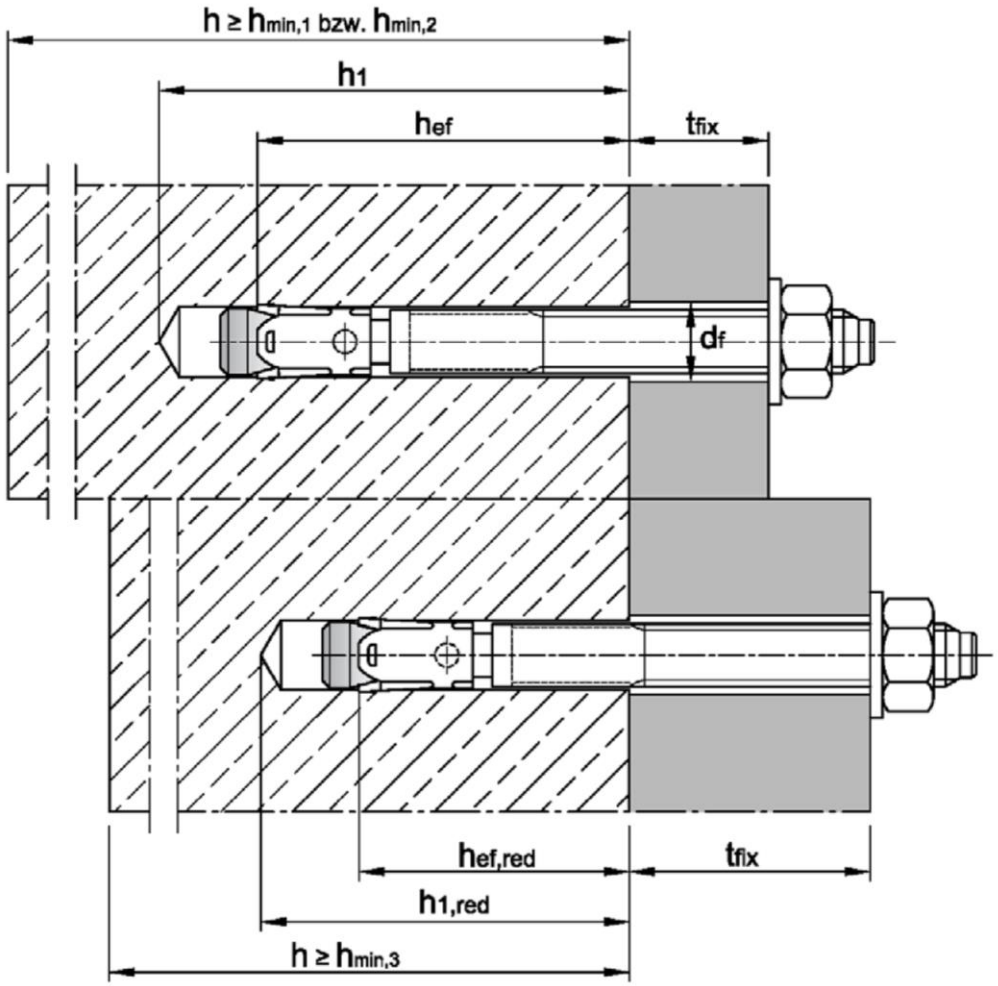
Fastener system

W-FAZ-IG S		 Washer	 Hexagon head screw
W-FAZ-IG SK		 Countersunk washer	 Countersunk head screw
W-FAZ-IG B		Washer Hexagon nut 	Commerical standard rod 

Würth Fixanchor W-FAZ and W-FAZ-IG	
Product description Fastener types	**Annex A1**

Deutsches Institut für Bautechnik DIBt

Intended use Fixanchor W-FAZ

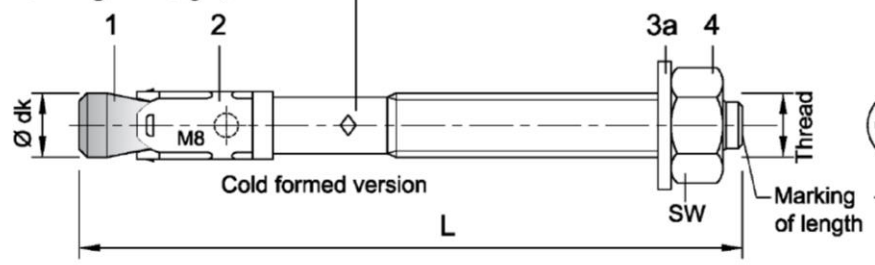


Würth Fixanchor W-FAZ	
Product description Installation situation W-FAZ	**Annex A2**

Deutsches Institut für Bautechnik DIBt

Fastener size W-FAZ M8 to M20:

Marking 1 e.g.: ◇ BZ



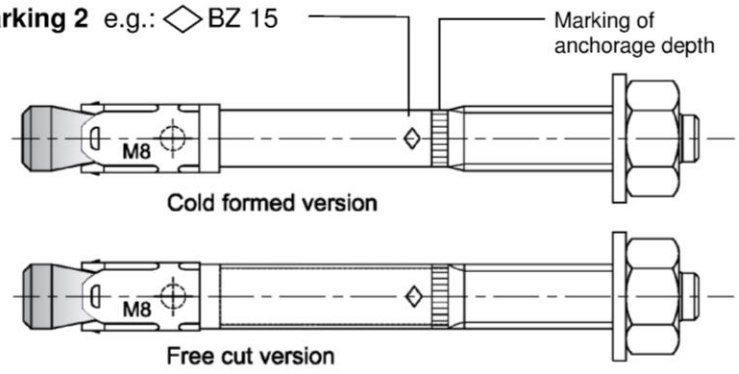
Marking 1 e.g.: ◇ BZ 15/35

- ◇ identifying mark of manufacturing plant
- BZ fastener identity
- 15 max. thickness of fixture for h_{ef}
- 35 max. thickness of fixture for $h_{ef,red}$
- M8 thread diameter

Additional marking:

- A4 stainless steel
- HCR high corrosion resistant steel

Marking 2 e.g.: ◇ BZ 15



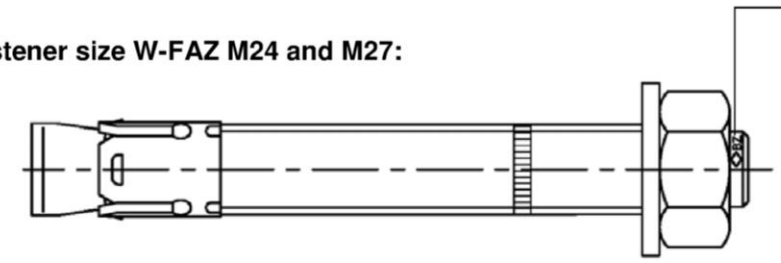
Marking 2 e.g.: ◇ BZ 15

- ◇ identifying mark of manufacturing plant
- BZ fastener identity
- 15 maximum thickness of fixture for h_{ef}
- M8 thread diameter

Additional marking:

- A4 stainless steel
- HCR high corrosion resistant steel

Fastener size W-FAZ M24 and M27:



Marking 3 e.g.: ◇ BZ M24-30

- ◇ identifying mark of manufacturing plant
- BZ fastener identity
- M24 thread diameter
- 30 maximum thickness of fixture

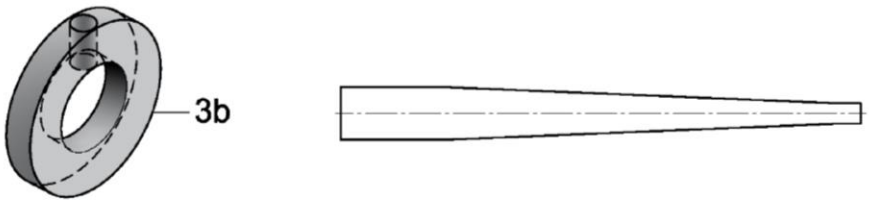
Additional marking:

- A4 stainless steel
- HCR high corrosion resistant steel

Marking of length	C (c)	D (d)	E (e)	F (f)	G (g)	H (h)	I (i)	J (j)	K (k)	L (l)	M (m)	N (n)
Length of fastener min ≥	63,5	76,2	88,9	101,6	114,3	127,0	139,7	152,4	165,1	177,8	190,5	203,2
Length of fastener max <	76,2	88,9	101,6	114,3	127,0	139,7	152,4	165,1	177,8	190,5	203,2	215,9

Marking of length	O (o)	P (p)	Q (q)	R (r)	S (s)	T (t)	U (u)	V (v)	W (w)	X (x)	Y (y)	Z (z)
Length of fastener min ≥	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 fastener max <	228,6	241,3	254,0	279,4	304,8	330,2	355,6	381,0	406,4	431,8	457,2	483,0

Filling washer and reducing adapter for filling the annular gap between fastener and fixture



Würth Fixanchor W-FAZ

Product description
Fastener sizes and marking

Annex A3

Deutsches Institut für Bautechnik DIBt

Table A1: Fastener dimensions W-FAZ

Fastener size			M8	M10	M12	M16	M20	M24	M27
Conical bolt		Thread	M8	M10	M12	M16	M20	M24	M27
		∅ d_k =	7,9	9,8	12,0	15,7	19,7	24	28
Length of fastener[1)]	Steel, zinc plated	L	65 + t_{fix}	80 + t_{fix}	96,5+t_{fix}	118+t_{fix}	137+t_{fix}	161+t_{fix}	178+t_{fix}
	A4, HCR	L	65 + t_{fix}	80 + t_{fix}	96,5+t_{fix}	118+t_{fix}	137+t_{fix}	168+t_{fix}	-
	reduced anchorage depth	$L_{hef,red}$	54 + t_{fix}	60 + t_{fix}	76,5+t_{fix}	98+t_{fix}	-	-	-
Hexagon nut		SW	13	17	19	24	30	36	41

[1)] With additional use of filling washer 3b the usable thickness of fixture will reduce 5mm

Dimensions in mm

Table A2: Materials W-FAZ

No.	Part	W-FAZ/S		W-FAZ/A4	W-FAZ/HCR
		Steel, zinc plated		Stainless steel A4	High corrosion resistant steel (HCR)
		galvanized ≥ 5µm	**sherardized** ≥ 40µm		
1	Conical bolt	M8 to M20: Cold formed or machined steel, galvanized, cone plastic coated	M8 to M20: Cold formed or machined steel, sherardized, cone plastic coated	M8 to M20: Stainless steel (e.g. 1.4401, 1.4404, 1.4578, 1.4571) EN 10088:2014, cone plastic coated	M8 to M20: High corrosion resistant steel 1.4529 or 1.4565, EN 10088:2014, cone plastic coated
	Threaded bolt	M24 and M27: Steel, galvanized	M24 and M27: steel, sherardized	M24: Stainless steel (e.g. 1.4401, 1.4404) EN 10088:2014	M24: High corrosion resistant steel 1.4529 or 1.4565, EN 10088:2014
	Threaded cone		M24 and M27: Steel, galvanized		
2	Expansion sleeve	M8 to M20: Steel (e.g. 1.4301 or 1.4401) EN 10088:2014, M24 and M27: Steel acc. to EN 10139:1997	M8 to M20: Steel (e.g. 1.4301 or 1.4401) EN 10088:2014, M24 and M27: Steel acc. to EN 10139:1997	Stainless steel (e.g. 1.4401, 1.4404, 1.4571) EN 10088:2014	Stainless steel (e.g. 1.4401, 1.4404, 1.4571) EN 10088:2014
3a	Washer	Steel, galvanized	Steel, zinc plated	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014	High corrosion resistant steel 1.4529 or 1.4565, EN 10088:2014
3b	Filling washer				
4	Hexagon nut	Steel, galvanized, coated	Steel, zinc plated	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014, coated	High corrosion resistant steel 1.4529 or 1.4565, EN 10088:2014, coated

Würth Fixanchor W-FAZ

Product description
Dimensions and materials

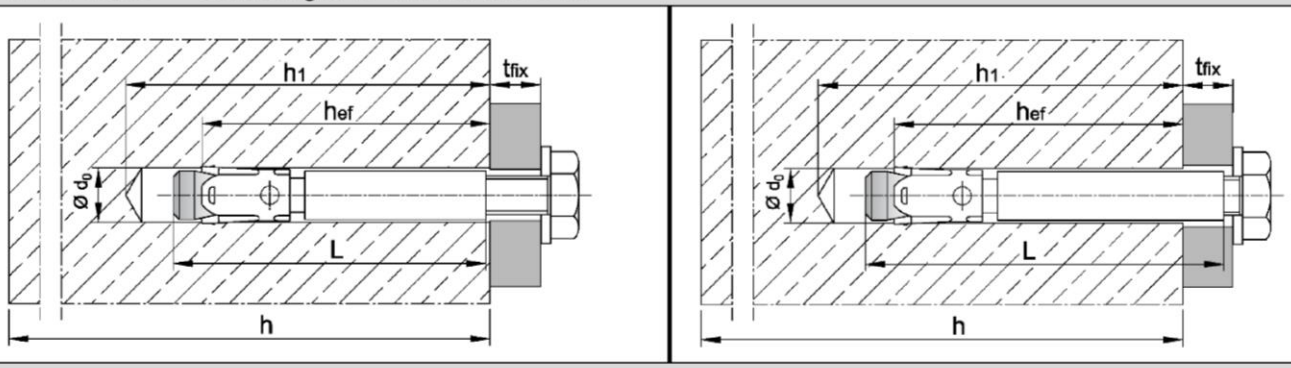
Annex A4

Deutsches Institut für Bautechnik DIBt

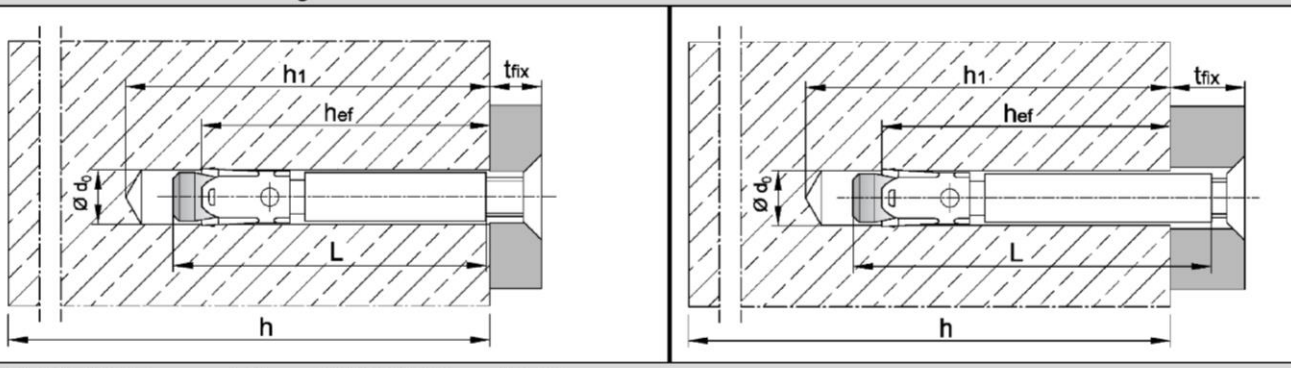
Intended use Wedge anchor W-FAZ-IG

Pre-setting installation (V)	Through-setting installation (D)
Pre-set fastener body W-FAZ-IG, the fixture bears on the screw or thread rod only	The fastener is set through the fixture, the fixture bears on the conical bolt W-FAZ-IG

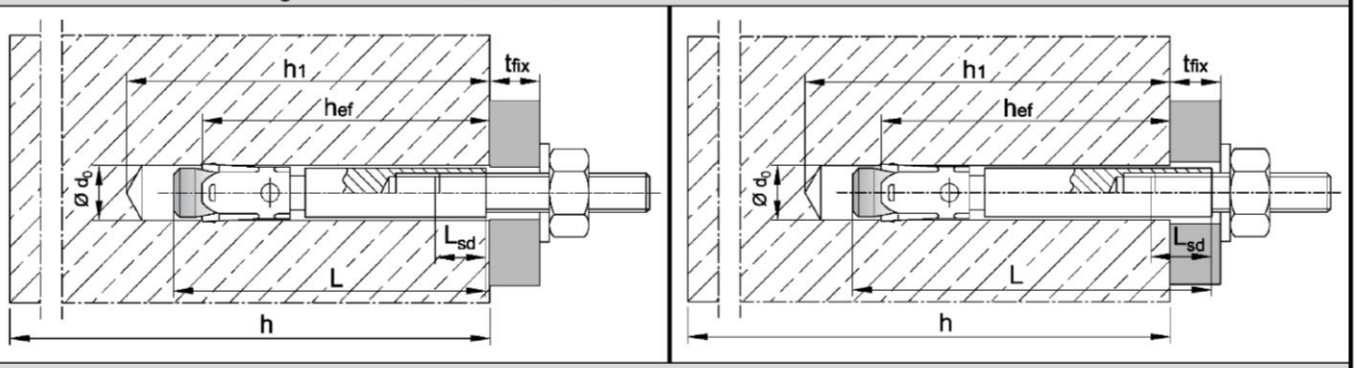
W-FAZ-IG S consisting of W-FAZ-IG and S-IG



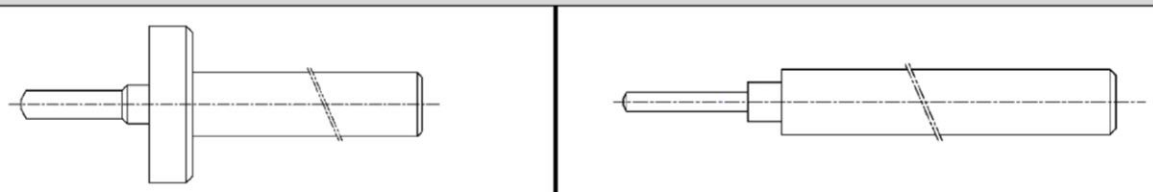
W-FAZ-IG SK consisting of W-FAZ-IG and SK-IG



W-FAZ-IG B consisting of W-FAZ-IG and B-IG



Setting tool



Würth Fixanchor W-FAZ-IG

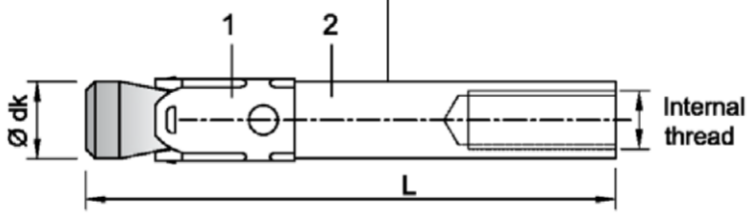
Product description
Installation situation **W-FAZ-IG**

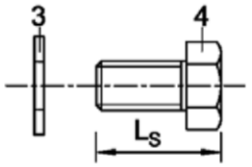
Annex A5

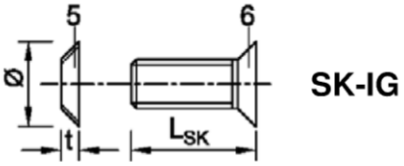
Deutsches Institut für Bautechnik DIBt

Marking: ◇ identifying mark of manufacturing plant
BZ fastener identity
M6 size of internal thread
10 max. thickness of fixture (only installation type D)
Additional marking:
A4 stainless steel
HCR high corrosion resistant steel

e.g.: ◇ BZ M6-10 A4







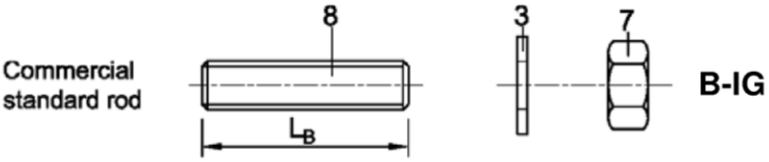


Table A3: Fastener dimensions W-FAZ-IG

No.	Fastener size			M6	M8	M10	M12
1	Conical bolt with internal thread		Ø d_k	7,9	9,8	11,8	15,7
	Installation type V		L	50	62	70	86
	Installation type D		L	50 + t_{fix}	62 + t_{fix}	70 + t_{fix}	86 + t_{fix}
2	Expansion sleeve			see table A4			
3	Washer			see table A4			
4	Hexagon head screw		width across flats	10	13	17	19
	Installation type V		L_S	t_{fix} + (13 to 21)	t_{fix} + (17 to 23)	t_{fix} + (21 to 25)	t_{fix} + (24 to 29)
	Installation type D		L_S	14 to 20	18 to 22	20 to 22	25 to 28
5	Countersunk washer		Ø countersunk	17,3	21,5	25,9	30,9
			t	3,9	5,0	5,7	6,7
6	Countersunk head screw		bit size	Torx T30	Torx T45 (Steel, zinc plated) T40 (Stainless steel A4, HCR)	Hexagon socket 6 mm	Hexagon socket 8 mm
	Installation type V		L_{SK}	t_{fix} + (11 to 19)	t_{fix} + (15 to 21)	t_{fix} + (19 to 23)	t_{fix} + (21 to 27)
	Installation type D		L_{SK}	16 to 20	20 to 25	25	30
7	Hexagon nut		width across flats	10	13	17	19
8	Commercial standard rod[1)]	type V	$L_B \geq$	t_{fix} + 21	t_{fix} + 28	t_{fix} + 34	t_{fix} + 41
		type D	$L_B \geq$	21	28	34	41

[1)] acc. to specifications (Table A4)

Dimensions in mm

Würth Fixanchor W-FAZ-IG

Product description
Fastener parts, marking and dimensions W-FAZ-IG

Annex A6

Deutsches Institut für Bautechnik DIBt

Table A4: Materials W-FAZ-IG

No.	Part	W-FAZ-IG/S Steel, galvanized ≥ 5 µm acc. to EN ISO 4042:1999	W-FAZ-IG/A4 Stainless steel A4	W-FAZ-IG/HCR High corrosion resistant steel HCR
1	Conical bolt W-FAZ-IG with internal thread	Machined steel, Cone plastic coated	Stainless steel (e.g. 1.4401, 1.4404, 1.4571, 1.4362) EN 10088:2014, Cone plastic coated	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014, Cone plastic coated
2	Expansion sleeve W-FAZ-IG	Stainless steel (e.g. 1.4301, 1.4401) EN 10088:2014	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014
3	Washer S-IG / B-IG	Steel, galvanized	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014
4	Hexagon head screw S-IG	Steel, galvanized, coated	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014, coated	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014, coated
5	Countersunk washer SK-IG	Steel, galvanized	Stainless steel (e.g. 1.4401, 1.4404, 1.4571) EN 10088:2014, zinc plated, coated	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014, zinc plated, coated
6	Countersunk head screw SK-IG	Steel, galvanized coated	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014, coated	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014, coated
7	Hexagon nut B-IG	Steel, galvanized coated	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014, coated	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014, coated
8	Commercial standard rod	Property class 8.8, EN ISO 898-1:2013 A_5 > 8 % ductile	Stainless steel (e.g. 1.4401, 1.4571) EN 10088:2014, property class 70, EN ISO 3506:2009	High corrosion resistant steel, 1.4529, 1.4565, EN 10088:2014, property class 70, EN ISO 3506:2009

Würth Fixanchor W-FAZ-IG

Product description
Materials W-FAZ-IG

Annex A7

Deutsches Institut für Bautechnik DIBt

Specifications of intended use

Fixanchor W-FAZ							
Standard anchorage depth	**M8**	**M10**	**M12**	**M16**	**M20**	**M24**	**M27**
Steel, galvanized	✓						
Steel, sherardized	✓						
Stainless steel A4 and high corrosion resistant steel HCR	✓						-
Static or quasi-static action	✓						
Fire exposure	✓						
Seismic action (C1 and C2) [1)]			✓			-	-

Reduced anchorage depth [1)]	**M8**	**M10**	**M12**	**M16**
Steel, galvanized			✓	
Steel, sherardized			✓	
Stainless steel A4 and high corrosion resistant steel HCR			✓	
Static or quasi-static action			✓	
Fire exposure			✓	
Seismic action (C1 and C2)			-	

[1)] only cold formed anchors acc. to Annex A3

Fixanchor W-FAZ-IG	**M6**	**M8**	**M10**	**M12**
Steel, galvanized			✓	
Stainless steel A4 and high corrosion resistant steel HCR			✓	
Static or quasi-static action			✓	
Fire exposure			✓	
Seismic action (C1 and C2)			-	

Base materials:

- Compacted, reinforced or unreinforced normal weight concrete (without fibers) according to EN 206:2013
- Strength classes C20/25 to C50/60 according to EN 206:2013
- Cracked or uncracked concrete

Use conditions (Environmental conditions):

- Structures subject to dry internal conditions
  (steel zinc plated, stainless steel or high corrosion resistant steel).
- Structures subject to external atmospheric exposure including industrial and marine environment or exposure to permanently damp internal condition, if no particular aggressive conditions exist
  (stainless steel or high corrosion resistant steel).
- Structures subject to external atmospheric exposure and to permanently damp internal condition, if other particular aggressive conditions
  (high corrosion resistant steel)

  Note: Particular aggressive conditions are e.g. permanent, alternating immersion in seawater or the splash zone of seawater, chloride atmosphere of indoor pools or atmosphere with extreme chemical pollution (e.g. in desulphurization plants or road tunnels where de-icing materials are used.)

Würth Fixanchor W-FAZ and W-FAZ-IG	
Intended use Specifications	**Annex B1**

Deutsches Institut für Bautechnik DIBt

Specifications of intended use

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 fastener is indicated on the design drawings (e.g. position of the fastener relative to reinforcement or to supports, etc.).
- Dimensioning of fasteners under static or quasi-static action, seismic action or fire exposure according to FprEN 1992-4: 2016 in conjunction with TR 055

Installation:

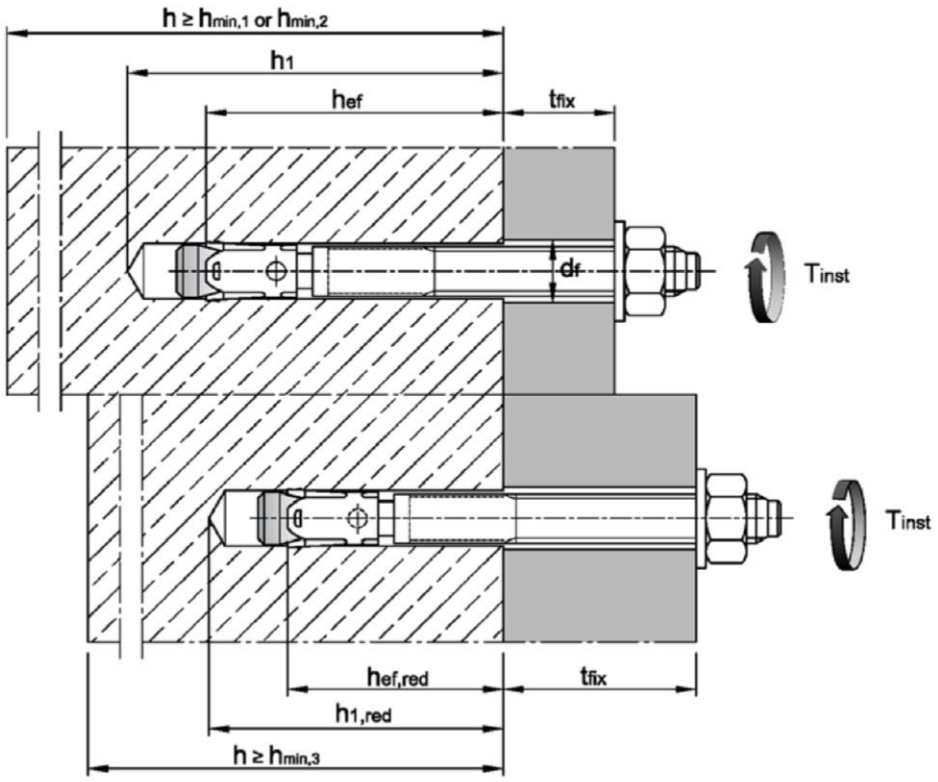
- Fastener installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site
- Hole drilling by hammer drill bit or vacuum drill bit
- Use of the fastener only as supplied by the manufacturer without exchanging the components of the fastener
- Optionally, the annular gap between fixture and stud of the W-FAZ can be filled to reduce the hole. For this purpose, the filling washer (3b) must be used in addition to the supplied washer (3a). For filling use high-strength mortar with compressive strength ≥ 50N/mm² (e.g.. WIT-VM 100, WIT-VIZ, WIT-Express, WIT-VIZ Express, WIT-VM 250, WIT-UH 300, WIT-Nordic)
- In case of aborted hole: new drilling at a minimum distance away of twice the depth of the aborted hole or smaller distance if the aborted drill hole is filled with high strength mortar and if under shear or oblique tension load it is not in the direction of load application

Würth Fixanchor W-FAZ and W-FAZ-IG	
Intended use Specifications	**Annex B2**

Deutsches Institut für Bautechnik DIBt

Table B1: Installation parameters, W-FAZ

Fastener size				M8	M10	M12	M16	M20	M24	M27
Nominal drill hole diameter		d_0	[mm]	8	10	12	16	20	24	28
Cutting diameter of drill bit		$d_{cut} \leq$	[mm]	8,45	10,45	12,5	16,5	20,55	24,55	28,55
Installation torque	Steel, galvanized	T_{inst}	[Nm]	20	25	45	90	160	200	300
	Steel, sherardized	T_{inst}	[Nm]	16	22	40	90	160	260	300
	Stainless steel A4, HCR	T_{inst}	[Nm]	20	35	50	110	200	290	-
Diameter of clearance hole in the fixture		$d_f \leq$	[mm]	9	12	14	18	22	26	30
Standard anchorage depth										
Depth of drill hole	Steel, zinc plated	$h_1 \geq$	[mm]	60	75	90	110	125	145	160
	Stainless steel A4, HCR	$h_1 \geq$	[mm]	60	75	90	110	125	155	-
Effective anchorage depth	Steel, zinc plated	h_{ef}	[mm]	46	60	70	85	100	115	125
	Stainless steel A4, HCR	h_{ef}	[mm]	46	60	70	85	100	125	-
Reduced anchorage depth										
Depth of drill hole		$h_{1,red} \geq$	[mm]	49	55	70	90	-	-	-
Reduced effective anchorage depth		$h_{ef,red}$	[mm]	35	40	50	65			



Würth Fixanchor W-FAZ

Intended use
Installation parameters

Annex B3

Deutsches Institut für Bautechnik DIBt

Table B2: Minimum **spacings** and **edge distances, standard anchorage depth**, W-FAZ

Fastener size			**M8**	**M10**	**M12**	**M16**	**M20**	**M24**	**M27**
Standard thickness of concrete member									
Steel zinc plated									
Standard thickness of member	$h_{min,1}$	[mm]	100	120	140	170	200	230	250
Cracked concrete									
Minimum spacing	s_{min}	[mm]	40	45	60	60	95	100	125
	für c ≥	[mm]	70	70	100	100	150	180	300
Minimum edge distance	c_{min}	[mm]	40	45	60	60	95	100	180
	für s ≥	[mm]	80	90	140	180	200	220	540
Uncracked concrete									
Minimum spacing	s_{min}	[mm]	40	45	60	65	90	100	125
	für c ≥	[mm]	80	70	120	120	180	180	300
Minimum edge distance	c_{min}	[mm]	50	50	75	80	130	100	180
	für s ≥	[mm]	100	100	150	150	240	220	540
Stainless steel A4, HCR									
Standard thickness of member	$h_{min,1}$	[mm]	100	120	140	160	200	250	-
Cracked concrete									
Minimum spacing	s_{min}	[mm]	40	50	60	60	95	125	-
	für c ≥	[mm]	70	75	100	100	150	125	
Minimum edge distance	c_{min}	[mm]	40	55	60	60	95	125	
	für s ≥	[mm]	80	90	140	180	200	125	
Uncracked concrete									
Minimum spacing	s_{min}	[mm]	40	50	60	65	90	125	-
	für c ≥	[mm]	80	75	120	120	180	125	
Minimum edge distance	c_{min}	[mm]	50	60	75	80	130	125	
	für s ≥	[mm]	100	120	150	150	240	125	
Minimum thickness of concrete member									
Steel zinc plated, stainless steel A4, HCR									
Minimum thickness of member	$h_{min,2}$	[mm]	80	100	120	140	-	-	-
Cracked concrete									
Minimum spacing	s_{min}	[mm]	40	45	60	70	-	-	-
	für c ≥	[mm]	70	90	100	160			
Minimum edge distance	c_{min}	[mm]	40	50	60	80			
	für s ≥	[mm]	80	115	140	180			
Uncracked concrete									
Minimum spacing	s_{min}	[mm]	40	60	60	80	-	-	-
	für c ≥	[mm]	80	140	120	180			
Minimum edge distance	c_{min}	[mm]	50	90	75	90			
	für s ≥	[mm]	100	140	150	200			

Fire exposure from one side			
Minimum spacing	$s_{min,fi}$	[mm]	See normal ambient temperature
Minimum edge distance	$c_{min,fi}$	[mm]	See normal ambient temperature
Fire exposure from more than one side			
Minimum spacing	$s_{min,fi}$	[mm]	See normal ambient temperature
Minimum edge distance	$c_{min,fi}$	[mm]	≥ 300 mm

Intermediate values by linear interpolation.

Würth Fixanchor W-FAZ

Intended use
Minimum **spacings** and **edge distances** for **standard anchorage depth**

Annex B4

Deutsches Institut für Bautechnik DIBt

Table B3: Minimum **spacings** and **edge distances, reduced anchorage depth, W-FAZ**

Fastener size			**M8**	**M10**	**M12**	**M16**
Minimum thickness of concrete member	$h_{min,3}$	[mm]	80	80	100	140
Cracked concrete						
Minimum spacing	s_{min}	[mm]	50	50	50	65
	für c ≥	[mm]	60	100	160	170
Minimum edge distance	c_{min}	[mm]	40	65	65	100
	für s ≥	[mm]	185	180	250	250
Uncracked concrete						
Minimum spacing	s_{min}	[mm]	50	50	50	65
	für c ≥	[mm]	60	100	160	170
Minimum edge distance	c_{min}	[mm]	40	65	100	170
	für s ≥	[mm]	185	180	185	65
Fire exposure from one side						
Minimum spacing	$s_{min,fi}$	[mm]	See normal ambient temperature			
Minimum edge distance	$c_{min,fi}$	[mm]	See normal ambient temperature			
Fire exposure from more than one side						
Minimum spacing	$s_{min,fi}$	[mm]	See normal ambient temperature			
Minimum edge distance	$c_{min,fi}$	[mm]	≥ 300 mm			

Intermediate values by linear interpolation.

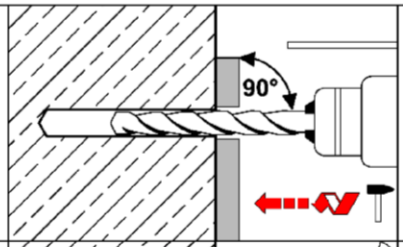
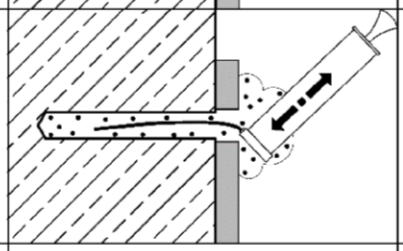
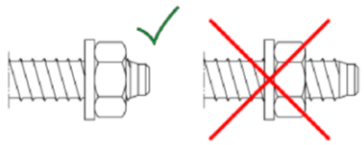
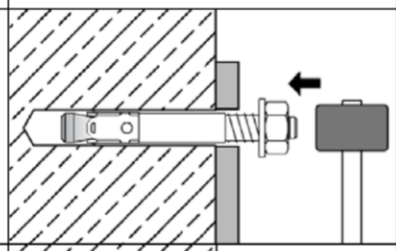
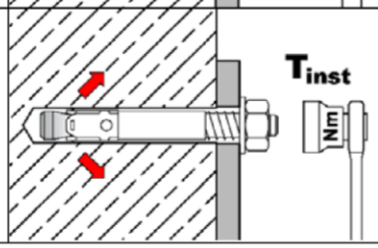
Würth Fixanchor W-FAZ

Intended use
Minimum **spacings** and **edge distances** for **reduced anchorage depth**

Annex B5

Deutsches Institut für Bautechnik DIBt

Installation instructions W-FAZ

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		Check position of nut.
4		Drive in fastener, such that h_{ef} or $h_{ef,red}$ depth is met. This compliance is ensured, if the thickness of fixture is not greater than the maximum thickness of fixture marked on the fastener in accordance with Annex A3.
5		Installation torque T_{inst} shall be applied by using calibrated torque wrench.

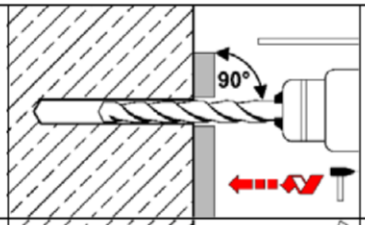
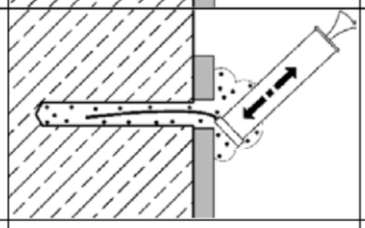
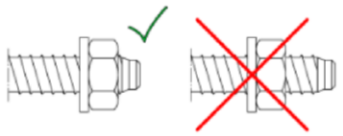
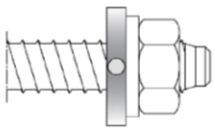
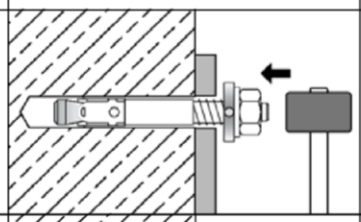
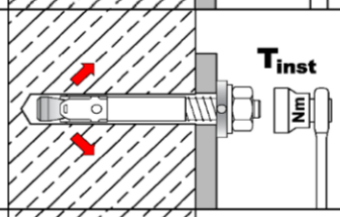
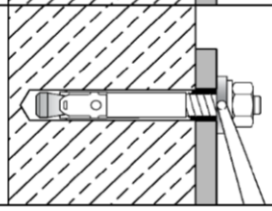
Würth Fixanchor W-FAZ

Intended Use
Installation instructions

Annex B6

Deutsches Institut für Bautechnik DIBt

Installation instructions W-FAZ with filling of annular gap

1		Drill hole perpendicular to concrete surface. If using a vacuum drill bit, proceed with step 3a.
2		Blow out dust. Alternatively vacuum clean down to the bottom of the hole.
3a		Check position of nut.
3b		Fit the filling washer to the fastener. The thickness of the filling washer must be taken into account with t_{fix}.
4		Drive in fastener with filling washer, such that h_{ef} or $h_{ef,red}$ depth is met. This compliance is ensured, if the thickness of fixture is 5mm smaller than the maximum thickness of fixture marked on the fastener in accordance with Annex A3.
5		Installation torque T_{inst} shall be applied by using calibrated torque wrench.
6		Fill the annular gap between stud and fixture with mortar (compressive strength ≥ 50 N/mm² e.g. WIT-VM 100, WIT-VIZ, WIT-Express, WIT-VIZ Express, WIT-VM 250, WIT-UH 300, WIT-Nordic). Use enclosed reducing adapter. Observe the processing information of the mortar! The annular gap is completely filled, when excess mortar seeps out.

Würth Fixanchor W-FAZ

Intended Use
Installation instructions with filling washer

Annex B7

Deutsches Institut für Bautechnik DIBt

Table B4: Installation parameters W-FAZ-IG

Fastener size				M6	M8	M10	M12
Effective anchorage depth		h_{ef}	[mm]	45	58	65	80
Drill hole diameter		d_0	[mm]	8	10	12	16
Cutting diameter of drill bit		$d_{cut} \leq$	[mm]	8,45	10,45	12,5	16,5
Depth of drill hole		$h_1 \geq$	[mm]	60	75	90	105
Screwing depth of threaded rod		L_{sd} [2] $\geq$	[mm]	9	12	15	18
Installation torque, steel zinc plated	T_{inst}	S	[Nm]	10	30	30	55
		SK	[Nm]	10	25	40	50
		B	[Nm]	8	25	30	45
Installation torque, stainless steel A4, HCR	T_{inst}	S	[Nm]	15	40	50	100
		SK	[Nm]	12	25	45	60
		B	[Nm]	8	25	40	80
Installation type V (Pre-setting installation)							
Diameter of clearance hole in the fixture		$d_f \leq$	[mm]	7	9	12	14
Minimum thickness of fixture	$t_{fix} \geq$	S	[mm]	1	1	1	1
		SK	[mm]	5	7	8	9
		B	[mm]	1	1	1	1
Installation type D (Through-setting installation)							
Diameter of clearance hole in the fixture		$d_f \leq$	[mm]	9	12	14	18
Minimum thickness of fixture [1]	$t_{fix} \geq$	S	[mm	5	7	8	9
		SK	[mm]	9	12	14	16
		B	[mm]	5	7	8	9

[1] The minimum thickness of fixture can be reduced to the value of installation type V, if the shear load at steel failure is designed with lever arm.
[2] see Annex A5

Table B5: Minimum spacings and edge distances W-FAZ-IG

Fastener size				M6	M8	M10	M12
Minimum thickness of concrete member		h_{min}	[mm]	100	120	130	160
Cracked concrete							
Minimum spacing		s_{min}	[mm]	50	60	70	80
		für c $\geq$	[mm]	60	80	100	120
Minimum edge distance		c_{min}	[mm]	50	60	70	80
		für s $\geq$	[mm]	75	100	100	120
Uncracked concrete							
Minimum spacing		s_{min}	[mm]	50	60	65	80
		für c $\geq$	[mm]	80	100	120	160
Minimum edge distance		c_{min}	[mm]	50	60	70	100
		für s $\geq$	[mm]	115	155	170	210
Fire exposure from one side							
Minimum spacing		$s_{min,fi}$	[mm]	See normal temperature			
Minimum edge distance		$c_{min,fi}$	[mm]	See normal temperature			
Fire exposure from more than one side							
Minimum spacing		$s_{min,fi}$	[mm]	See normal temperature			
Minimum edge distance		$c_{min,fi}$	[mm]	≥ 300 mm			

Intermediate values by linear interpolation.

Würth Fixanchor W-FAZ-IG

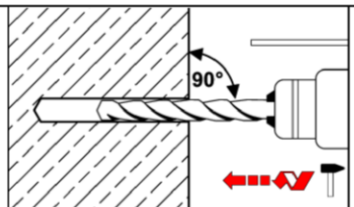
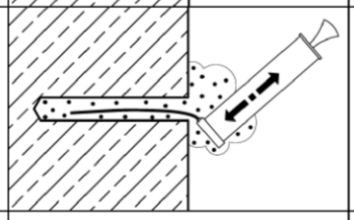
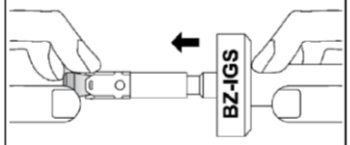
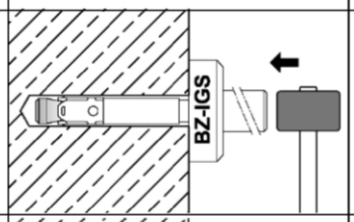
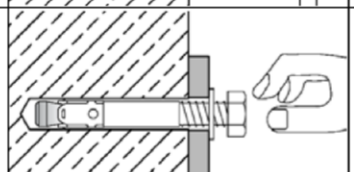
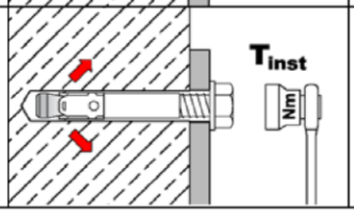
Intended use
Installation parameters, minimum spacings and edge distances W-FAZ-IG

Annex B8

Deutsches Institut für Bautechnik DIBt

Installation instructions W-FAZ-IG

Pre-setting installation

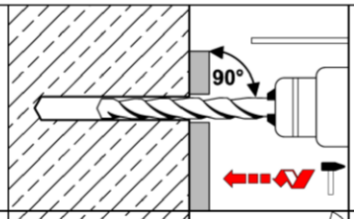
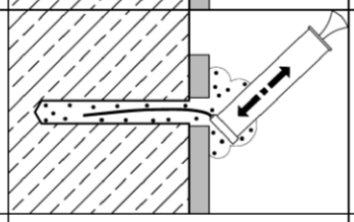
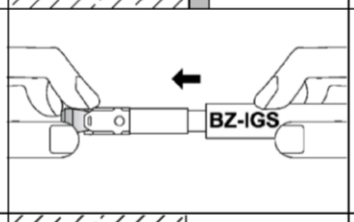
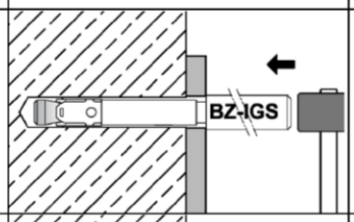
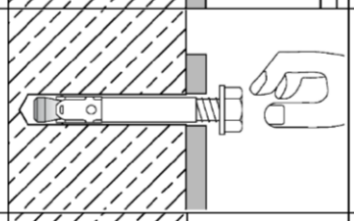
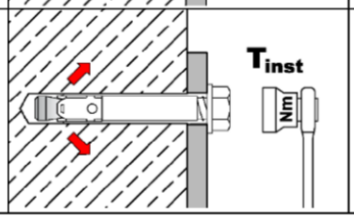
1		Drill hole perpendicular to concrete surface. If using vacuum drill bit, proceed with step 3.
2		Blow out dust. Alternatively vacuum clean down to the bottom of the hole.
3		Setting tool for **pre-setting installation** insert in fastener.
4		Drive in fastener with setting tool.
5		Drive in srew.
6		Installation torque T_{inst} may be applied by using calibrated torque wrench.

Würth Fixanchor W-FAZ-IG	
Intended Use Installation instructions for pre-setting installation **W-FAZ-IG**	**Annex B9**

Deutsches Institut für Bautechnik DIBt

Installation instructions W-FAZ-IG

Through-setting installation

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		Setting tool for **through-setting installation** insert in fastener.
4		Drive in fastener with setting tool.
5		Drive in screw.
6		Installation torque T_{inst} may be applied by using calibrated torque wrench.

Würth Fixanchor W-FAZ-IG	
Intended Use Installation instructions for through-setting installation **W-FAZ-IG**	**Annex B10**

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Table C1: Characteristic values for **tension loads, W-FAZ zinc plated, cracked concrete,** static and quasi-static action

Fastener size			**M8**	**M10**	**M12**	**M16**	**M20**	**M24**	**M27**
Installation factor	γ_{inst}	[-]	1,0						
Steel failure									
Characteristic resistance	$N_{Rk,s}$	[kN]	16	27	40	60	86	126	196
Partial factor	γ_{Ms}	[-]	1,53		1,5		1,6	1,5	
Pull-out									
Standard anchorage depth									
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	5	9	16	25	1)	1)	1)
Reduced anchorage depth									
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	5	7,5	1)	1)	-	-	-
Increasing factor for $N_{Rk,p}$	ψc	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$						
Concrete cone failure									
Effective anchorage depth	h_{ef}	[mm]	46	60	70	85	100	115	125
Reduced anchorage depth	$h_{ef,red}$	[mm]	35 2)	40	50	65	-	-	-
Factor for cracked concrete	$k_1 = k_{cr,N}$	[-]	7,7						

1) Pull-out is not decisive
2) Use restricted to anchoring of structural components statically indeterminate

Würth Fixanchor W-FAZ

Performance
Characteristic values for **tension loads**, **W-FAZ zinc plated, cracked concrete**, static and quasi-static action

Annex C1

Deutsches Institut für Bautechnik DIBt

Table C2: Characteristic values for **tension loads, W-FAZ A4 / HCR, cracked concrete,** static and quasi-static action

Fastener size			**M8**	**M10**	**M12**	**M16**	**M20**	**M24**
Installation factor	γ_{inst}	[-]	1,0					
Steel failure								
Characteristic resistance	$N_{Rk,s}$	[kN]	16	27	40	64	108	110
Partial factor	γ_{Ms}	[-]	1,5				1,68	1,5
Pull-out								
Standard anchorage depth								
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	5	9	16	25	1)	40
Reduced anchorage depth								
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	5	7,5	1)	1)	-	-
Increasing factor for $N_{Rk,p}$	ψc	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$					
Concrete cone failure								
Effective anchorage depth	h_{ef}	[mm]	46	60	70	85	100	125
Reduced anchorage depth	$h_{ef,red}$	[mm]	35 2)	40	50	65	-	-
Factor for cracked concrete	$k_1 = k_{cr,N}$	[-]	7,7					

1) Pull-out is not decisive
2) Use restricted to anchoring of structural components statically indeterminate

Würth Fixanchor W-FAZ

Performance
Characteristic values for **tension loads, W-FAZ A4 / HCR, cracked concrete,** static and quasi-static action

Annex C2

Deutsches Institut für Bautechnik DIBt

Table C3: Characteristic values for **tension loads, W-FAZ zinc plated, uncracked concrete,** static and quasi-static action

Fastener size			**M8**	**M10**	**M12**	**M16**	**M20**	**M24**	**M27**
Installation factor	γ_{inst}	[-]	1,0						
Steel failure									
Characteristic resistance	$N_{Rk,s}$	[kN]	16	27	40	60	86	126	196
Partial factor	γ_{Ms}	[-]	1,53		1,5		1,6	1,5	
Pull-out									
Standard anchorage depth									
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	12	16	25	35	1)	1)	1)
Reduced anchorage depth									
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	7,5	9	1)	1)	-	-	-
Splitting									
Standard anchorage depth									
Splitting for **standard thickness of concrete member** (The higher resistance of case 1 and case 2 may be applied; $c_{cr,sp}$ may be linearly interpolated for the member thickness $h_{min,2} < h < h_{min,1}$ (Case 2); $\psi_{h,sp}$= 1,0))									
Standard thickness of concrete	$h_{min,1} \geq$	[mm]	100	120	140	170	200	230	250
Case 1									
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	9	12	20	30	40	62,3	50
Edge distance	$c_{cr,sp}$	[mm]	1,5 h_{ef}						
Case 2									
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	12	16	25	35	50,5	62,3	70,6
Edge distance	$c_{cr,sp}$	[mm]	2 h_{ef}				2,2 h_{ef}	1,5 h_{ef}	2,5 h_{ef}
Splitting for **minimum thickness of concrete member**									
Minimum thickness of concrete	$h_{min,2} \geq$	[mm]	80	100	120	140	-	-	-
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	12	16	25	35			
Edge distance	$c_{cr,sp}$	[mm]	2,5 h_{ef}						
Reduced anchorage depth									
Minimum thickness of concrete	$h_{min,3} \geq$	[mm]	80	80	100	140	-	-	-
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	7,5	9	17,9	26,5			
Edge distance	$c_{cr,sp}$	[mm]	100	100	125	150			
Increasing factor for $N_{Rk,p}$ and $N^0_{Rk,sp}$	ψc	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$						
Concrete cone failure									
Effective anchorage depth	h_{ef}	[mm]	46	60	70	85	100	115	125
Reduced anchorage depth	$h_{ef,red}$	[mm]	35 2)	40	50	65	-	-	-
Factor for uncracked concrete	$k_1 = k_{ucr,N}$	[-]	11,0						

1) Pull-out is not decisive
2) Use restricted to anchoring of structural components statically indeterminate

Würth Fixanchor W-FAZ

Performance
Characteristic values for **tension loads, W-FAZ zinc plated, uncracked concrete,** static and quasi-static action

Annex C3

Deutsches Institut für Bautechnik DIBt

Table C4: Characteristic values for **tension loads, W-FAZ A4 / HCR, uncracked concrete,** static and quasi-static action

Fastener size			**M8**	**M10**	**M12**	**M16**	**M20**	**M24**
Installation factor	γ_{inst}	[-]	1,0					
Steel failure								
Characteristic resistance	$N_{Rk,s}$	[kN]	16	27	40	64	108	110
Partial factor	γ_{Ms}	[-]	1,5				1,68	1,5
Pull-out								
Standard anchorage depth								
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	12	16	25	35	1)	1)
Reduced anchorage depth								
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	7,5	9	1)	1)	-	-
Splitting								
Standard anchorage depth								
Splitting for **standard thickness of concrete member** (The higher resistance of case 1 and case 2 may be applied; $c_{cr,sp}$ may be linearly interpolated for the member thickness $h_{min,2} < h < h_{min,1}$ (Case 2); $\psi_{h,sp}$= 1,0)								
Standard thickness of concrete	$h_{min,1} \geq$	[mm]	100	120	140	160	200	250
Case 1								
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	9	12	20	30	40	-
Edge distance	$c_{cr,sp}$	[mm]	1,5 h_{ef}					
Case 2								
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	12	16	25	35	50,5	70,6
Edge distance	$c_{cr,sp}$	[mm]	115	125	140	200	220	250
Splitting for **minimum thickness of concrete member**								
Minimum thickness of concrete	$h_{min,2} \geq$	[mm]	80	100	120	140	-	-
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	12	16	25	35		
Edge distance	$c_{cr,sp}$	[mm]	2,5 h_{ef}					
Reduced anchorage depth								
Minimum thickness of concrete	$h_{min,3} \geq$	[mm]	80	80	100	140	-	-
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	7,5	9	17,9	26,5		
Edge distance	$c_{cr,sp}$	[mm]	100	100	125	150		
Increasing factor for $N_{Rk,p}$ and $N^0_{Rk,sp}$	ψc	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$					
Concrete cone failure								
Effective anchorage depth	h_{ef}	[mm]	46	60	70	85	100	125
Reduced anchorage depth	$h_{ef,red}$	[mm]	35 2)	40	50	65	-	-
Factor for uncracked concrete	$k_1 = k_{ucr,N}$	[-]	11,0					

1) Pull-out is not decisive
2) Use restricted to anchoring of structural components statically indeterminate

Würth Fixanchor W-FAZ

Performance
Characteristic values for **tension loads, W-FAZ A4 / HCR, uncracked concrete,** static and quasi-static action

Annex C4

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Table C5: Characteristic values for **shear loads**, **W-FAZ**, **cracked** and **uncracked concrete,** static or quasi static action

Fastener size				**M8**	**M10**	**M12**	**M16**	**M20**	**M24**	**M27**
Installation factor		γ_{inst}	[-]	1,0						
Steel failure without lever arm, Steel zinc plated										
Characteristic resistance		$V^0_{Rk,s}$	[kN]	12,2	20,1	30	55	69	114	169,4
Ductility factor		k_7	[-]	1,0						
Partial factor		γ_{Ms}	[-]	1,25				1,33	1,25	1,25
Steel failure without lever arm, Stainless steel A4, HCR										
Characteristic resistance		$V^0_{Rk,s}$	[kN]	13	20	30	55	86	123,6	-
Ductility factor		k_7	[-]	1,0						
Partial factor		γ_{Ms}	[-]	1,25				1,4	1,25	
Steel failure with lever arm, Steel zinc plated										
Characteristic bending resistance		$M^0_{Rk,s}$	[Nm]	23	47	82	216	363	898	1331,5
Partial factor		γ_{Ms}	[-]	1,25				1,33	1,25	1,25
Steel failure with lever arm, Stainless steel A4, HCR										
Characteristic bending resistance		$M^0_{Rk,s}$	[Nm]	26	52	92	200	454	785,4	-
Partial factor		γ_{Ms}	[-]	1,25				1,4	1,25	
Concrete pry-out failure										
Pry-out factor		k_8	[-]	2,4				2,8		
Concrete edge failure										
Effective length of fastener in shear loading with $\mathbf{h_{ef}}$	Steel zinc plated	l_f	[mm]	46	60	70	85	100	115	125
	Stainless steel A4, HCR	l_f	[mm]	46	60	70	85	100	125	-
Effective length of fastener in shear loading with $\mathbf{h_{ef,red}}$	Steel zinc plated	$l_{f,red}$	[mm]	35[1)]	40	50	65	-	-	-
	Stainless steel A4, HCR	$l_{f,red}$	[mm]	35[1)]	40	50	65			
Outside diameter of fastener		d_{nom}	[mm]	8	10	12	16	20	24	27

[1)] Use restricted to anchoring of structural components statically indeterminate

Würth Fixanchor W-FAZ

Performance
Characteristic values for **shear loads**, **W-FAZ**, **cracked** and **uncracked concrete,** static or quasi static action

Annex C5

Deutsches Institut für Bautechnik DIBt

Table C6: Characteristic resistance for **seismic loading**, **W-FAZ**, **standard anchorage depth,** performance category **C1** and **C2**

Fastener size			**M8**	**M10**	**M12**	**M16**	**M20**
Tension loads							
Installation factor	γ_{inst}	[-]	1,0				
Steel failure, Steel zinc plated							
Characteristic resistance **C1**	$N_{Rk,s,eq,C1}$	[kN]	16	27	40	60	86
Characteristic resistance **C2**	$N_{Rk,s,eq,C2}$	[kN]	16	27	40	60	86
Partial factor	γ_{Ms}	[-]	1,53		1,5		1,6
Steel failure, Stainless steel A4, HCR							
Characteristic resistance **C1**	$N_{Rk,s,eq,C1}$	[kN]	16	27	40	64	108
Characteristic resistance **C2**	$N_{Rk,s,eq,C2}$	[kN]	16	27	40	64	108
Partial factor	γ_{Ms}	[-]	1,5				1,68
Pull-out (steel zinc plated, stainless steel A4 and HCR)							
Characteristic resistance **C1**	$N_{Rk,p,eq,C1}$	[kN]	5	9	16	25	36
Characteristic resistance **C2**	$N_{Rk,p,eq,C2}$	[kN]	2,3	3,6	10,2	13,8	24,4
Shear loads							
Steel failure without lever arm, Steel zinc plated							
Characteristic resistance **C1**	$V_{Rk,s,eq,C1}$	[kN]	9,3	20	27	44	69
Characteristic resistance **C2**	$V_{Rk,s,eq,C2}$	[kN]	6,7	14	16,2	35,7	55,2
Partial factor	γ_{Ms}	[-]	1, 25				1,33
Steel failure without lever arm, Stainless steel A4, HCR							
Characteristic resistance **C1**	$V_{Rk,s,eq,C1}$	[kN]	9,3	20	27	44	69
Characteristic resistance **C2**	$V_{Rk,s,eq,C2}$	[kN]	6,7	14	16,2	35,7	55,2
Partial factor	γ_{Ms}	[-]	1, 25				1,4
Factor for annular gap: **without** filling of annular gap	α_{gap}	[-]	0,5				
Factor for annular gap: **with** filling of annular gap	α_{gap}	[-]	1,0				

Würth Fixanchor W-FAZ

Performance
Characteristic resistance for **seismic loading**, **W-FAZ**, **standard anchorage depth,** performance category **C1** and **C2**

Annex C6

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Table C7: Characteristic values **for tension and shear load** under **fire exposure, W-FAZ, standard anchorage depth,** cracked and uncracked concrete C20/25 to C50/60

Fastener size				**M8**	**M10**	**M12**	**M16**	**M20**	**M24**	**M27**
Tension load										
Steel failure										
Steel, zinc plated										
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	1,5	2,6	4,1	7,7	9,4	13,6	17,6
	R60			1,1	1,9	3,0	5,6	8,2	11,8	15,3
	R90			0,8	1,4	2,4	4,4	6,9	10,0	13,0
	R120			0,7	1,2	2,2	4,0	6,3	9,1	11,8
Stainless steel A4, HCR										
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	3,8	6,9	12,7	23,7	33,5	48,2	-
	R60			2,9	5,3	9,4	17,6	25,0	35,9	
	R90			2,0	3,6	6,1	11,5	16,4	23,6	
	R120			1,6	2,8	4,5	8,4	12,1	17,4	
Shear load										
Steel failure without lever arm										
Steel, zinc plated										
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	1,6	2,6	4,1	7,7	11	16	20,6
	R60			1,5	2,5	3,6	6,8	11	15	19,8
	R90			1,2	2,1	3,5	6,5	10	15	19,0
	R120			1,0	2,0	3,4	6,4	10	14	18,6
Stainless steel A4, HCR										
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	3,8	6,9	12,7	23,7	33,5	48,2	-
	R60			2,9	5,3	9,4	17,6	25,0	35,9	
	R90			2,0	3,6	6,1	11,5	16,4	23,6	
	R120			1,6	2,8	4,5	8,4	12,1	17,4	
Steel failure with lever arm										
Steel, zinc plated										
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	1,7	3,3	6,4	16,3	29	50	75
	R60			1,6	3,2	5,6	14	28	48	72
	R90			1,2	2,7	5,4	14	27	47	69
	R120			1,1	2,5	5,3	13	26	46	68
Stainless steel A4, HCR										
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	3,8	9,0	19,7	50,1	88,8	153,5	-
	R60			2,9	6,8	14,6	37,2	66,1	114,3	
	R90			2,1	4,7	9,5	24,2	43,4	75,1	
	R120			1,6	3,6	7,0	17,8	32,1	55,5	

If pull-out is not decisive, $N_{Rk,p}$ must be replaced by $N^0_{Rk,c}$ in equation (D.4) and (D.5), FprEN 1992-4.

Würth Fixanchor W-FAZ

Performance
Characteristic values **for tension and shear load** under **fire exposure, W-FAZ, standard anchorage depth**, cracked and uncracked concrete C20/25 to C50/60

Annex C7

Deutsches Institut für Bautechnik DIBt

Table C8: Characteristic values **for tension and shear load** under **fire exposure, W-FAZ, reduced anchorage depth,** cracked and uncracked concrete C20/25 to C50/60

Fastener size				**M8**	**M10**	**M12**	**M16**
Tension load							
Steel failure							
Steel, zinc plated							
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	1,5	2,6	4,1	7,7
	R60			1,1	1,9	3,0	5,6
	R90			0,8	1,3	1,9	3,5
	R120			0,6	1,0	1,3	2,5
Stainless steel A4, HCR							
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	3,2	6,9	12,7	23,7
	R60			2,5	5,3	9,4	17,6
	R90			1,9	3,6	6,1	11,5
	R120			1,6	2,8	4,5	8,4
Shear load							
Steel failure without lever arm							
Steel, zinc plated							
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	1,5	2,6	4,1	7,7
	R60			1,1	1,9	3,0	5,6
	R90			0,8	1,3	1,9	3,5
	R120			0,6	1,0	1,3	2,5
Stainless steel A4, HCR							
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	3,2	6,9	12,7	23,7
	R60			2,5	5,3	9,4	17,6
	R90			1,9	3,6	6,1	11,5
	R120			1,6	2,8	4,5	8,4
Steel failure with lever arm							
Steel, zinc plated							
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	1,5	3,3	6,4	16,3
	R60			1,2	2,5	4,7	11,9
	R90			0,8	1,7	3,0	7,5
	R120			0,6	1,2	2,1	5,3
Stainless steel A4, HCR							
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	3,2	8,9	19,7	50,1
	R60			2,6	6,8	14,6	37,2
	R90			2,0	4,7	9,5	24,2
	R120			1,6	3,6	7,0	17,8

If pull-out is not decisive, $N_{Rk,p}$ must be replaced by $N^0_{Rk,c}$ in equation (D.4) and (D.5), FprEN 1992-4.

Würth Fixanchor W-FAZ

Performance
Characteristic values **for tension and shear load** under **fire exposure, W-FAZ, reduced anchorage depth**, cracked and uncracked concrete C20/25 to C50/60

Annex C8

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Table C9: Displacements under tension load, W-FAZ

Fastener size			M8	M10	M12	M16	M20	M24	M27
Standard anchorage depth									
Steel zinc plated									
Tension load in cracked concrete	N	[kN]	2,4	4,3	7,6	11,9	17,1	21,1	24
Displacement	δ_{N0}	[mm]	0,6	1,0	0,4	1,0	0,9	0,7	0,9
	$\delta_{N\infty}$	[mm]	1,4	1,2	1,4	1,3	1,0	1,2	1,4
Tension load in uncracked concrete	N	[kN]	5,7	7,6	11,9	16,7	23,8	29,6	34
Displacement	δ_{N0}	[mm]	0,4	0,5	0,7	0,3	0,4	0,5	0,3
	$\delta_{N\infty}$	[mm]	0,8		1,4		0,8		1,4
Displacements under seismic tension loads **C2**									
Displacements for DLS	$\delta_{N,eq,(DLS)}$	[mm]	2,3	4,1	4,9	3,6	5,1	-	-
Displacements for ULS	$\delta_{N,eq(ULS)}$	[mm]	8,2	13,8	15,7	9,5	15,2		
Stainless steel A4, HCR									
Tension load in cracked concrete	N	[kN]	2,4	4,3	7,6	11,9	17,1	19,0	-
Displacement	δ_{N0}	[mm]	0,7	1,8	0,4	0,7	0,9	0,5	
	$\delta_{N\infty}$	[mm]	1,2	1,4	1,4	1,4	1,0	1,8	
Tension load in uncracked concrete	N	[kN]	5,8	7,6	11,9	16,7	23,8	33,5	-
Displacement	δ_{N0}	[mm]	0,6	0,5	0,7	0,2	0,4	0,5	
	$\delta_{N\infty}$	[mm]	1,2	1,0	1,4	0,4	0,8	1,1	
Displacements under seismic tension loads **C2**									
Displacements for DLS	$\delta_{N,eq(DLS)}$	[mm]	2,3	4,1	4,9	3,6	5,1	-	-
Displacements for ULS	$\delta_{N,eq(ULS)}$	[mm]	8,2	13,8	15,7	9,5	15,2		
Reduced anchorage depth									
Steel zinc plated, stainless steel A4, HCR									
Tension load in cracked concrete	N	[kN]	2,4	3,6	6,1	9,0	-	-	-
Displacement	δ_{N0}	[mm]	0,8	0,7	0,5	1,0			
	$\delta_{N\infty}$	[mm]	1,2	1,0	0,8	1,1			
Tension load in uncracked concrete	N	[kN]	3,7	4,3	8,5	12,6	-	-	-
Displacement	δ_{N0}	[mm]	0,1	0,2	0,2	0,2			
	$\delta_{N\infty}$	[mm]	0,7	0,7	0,7	0,7			

Würth Fixanchor W-FAZ

Performance
Displacements under tension load

Annex C9

Deutsches Institut für Bautechnik DIBt

Table C10: Displacements under shear load, W-FAZ

Fastener size			M8	M10	M12	M16	M20	M24	M27
Standard anchorage depth									
Steel zinc plated									
Shear load in cracked and uncracked concrete	V	[kN]	6,9	11,4	17,1	31,4	36,8	64,9	96,8
Displacement	δ_{V0}	[mm]	2,0	3,2	3,6	3,5	1,8	3,5	3,6
	$\delta_{V\infty}$	[mm]	3,0	4,7	5,5	5,3	2,7	5,3	5,4
Displacements under seismic shear loads **C2**									
Displacements for DLS	$\delta_{V,eq(DLS)}$	[mm]	3,0	2,7	3,5	4,3	4,7	-	-
Displacements for ULS	$\delta_{V,eq(ULS)}$	[mm]	5,9	5,3	9,5	9,6	10,1		
Stainless steel A4, HCR									
Shear load in cracked and uncracked concrete	V	[kN]	7,3	11,4	17,1	31,4	43,8	70,6	-
Displacement	δ_{V0}	[mm]	1,9	2,4	4,0	4,3	2,9	2,8	
	$\delta_{V\infty}$	[mm]	2,9	3,6	5,9	6,4	4,3	4,2	
Displacements under seismic shear loads **C2**									
Displacements for DLS	$\delta_{V,eq(DLS)}$	[mm]	3,0	2,7	3,5	4,3	4,7	-	-
Displacements for ULS	$\delta_{V,eq(ULS)}$	[mm]	5,9	5,3	9,5	9,6	10,1		
Reduced anchorage depth									
Steel zinc plated									
Shear load in cracked and uncracked concrete	V	[kN]	6,9	11,4	17,1	31,4	-	-	-
Displacement	δ_{V0}	[mm]	2,0	3,2	3,6	3,5			
	$\delta_{V\infty}$	[mm]	3,0	4,7	5,5	5,3			
Stainless steel A4, HCR									
Shear load in cracked and uncracked concrete	V	[kN]	7,3	11,4	17,1	31,4	-	-	-
Displacement	δ_{V0}	[mm]	1,9	2,4	4,0	4,3			
	$\delta_{V\infty}$	[mm]	2,9	3,6	5,9	6,4			

Würth Fixanchor W-FAZ

Performance
Displacements under shear load

Annex C10

Deutsches Institut für Bautechnik DIBt

Table C11: Characteristic values for **tension loads, W-FAZ-IG, cracked concrete,** static and quasi-static action

Fastener size			**M6**	**M8**	**M10**	**M12**
Installation factor	γ_{inst}	[-]	1,2			
Steel failure						
Characteristic resistance, **steel zinc plated**	$N_{Rk,s}$	[kN]	16,1	22,6	26,0	56,6
Partial factor	γ_{Ms}	[-]	1,5			
Characteristic resistance, **stainless steel A4, HCR**	$N_{Rk,s}$	[kN]	14,1	25,6	35,8	59,0
	γ_{Ms}	[-]	1,87			
Pull-out failure						
Characteristic resistance in cracked concrete C20/25	$N_{Rk,p}$	[kN]	5	9	12	20
Increasing factor for $N_{Rk,p}$	ψc	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$			
Concrete cone failure						
Effective anchorage depth	h_{ef}	[mm]	45	58	65	80
Factor for cracked concrete	$k_1 = k_{cr,N}$	[-]	7,7			

Deutsches Institut für Bautechnik DIBt

Table C12: Characteristic values for **tension loads, W-FAZ-IG, uncracked concrete,** static and quasi-static action

Fastener size			**M6**	**M8**	**M10**	**M12**
Installation factor	γ_{inst}	[-]	1,2			
Steel failure						
Characteristic resistance, **steel zinc plated**	$N_{Rk,s}$	[kN]	16,1	22,6	26,0	56,6
Partial factor	γ_{Ms}	[-]	1,5			
Characteristic resistance, **stainless steel A4, HCR**	$N_{Rk,s}$	[kN]	14,1	25,6	35,8	59,0
Partial factor	γ_{Ms}	[-]	1,87			
Pull-out						
Characteristic resistance in uncracked concrete C20/25	$N_{Rk,p}$	[kN]	12	16	20	30
Splitting (the higher resistance of Case 1 and Case 2 may be applied)						
Minimum thickness of concrete member	h_{min}	[mm]	100	120	130	160
Case 1						
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	9	12	16	25
Edge distance	$c_{cr,sp}$	[mm]	1,5 h_{ef}			
Case 2						
Characteristic resistance in uncracked concrete C20/25	$N^0_{Rk,sp}$	[kN]	12	16	20	30
Edge distance	$c_{cr,sp}$	[mm]	2,5 h_{ef}			
Increasing factor for $N_{Rk,p}$ and $N^0_{Rk,sp}$	ψc	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,5}$			
Concrete cone failure						
Effective anchorage depth	h_{ef}	[mm]	45	58	65	80
Factor for uncracked concrete	$k_1 = k_{ucr,N}$	[-]	11,0			

Würth Fixanchor W-FAZ-IG

Performance
Characteristic values for **tension loads, W-FAZ-IG, uncracked concrete,** static and quasi-static action

Annex C12

Deutsches Institut für Bautechnik DIBt

Table C13: Characteristic values for **shear loads, W-FAZ-IG, cracked and uncracked concrete,** static and quasi-static action

Fastener size			**M6**	**M8**	**M10**	**M12**
Installation factor	γ_{inst}	[-]	1,0			
W-FAZ-IG, steel zinc plated						
Steel failure without lever arm, Installation type V						
Characteristic resistance	$V^0_{Rk,s}$	[kN]	5,8	6,9	10,4	25,8
Steel failure without lever arm, Installation type D						
Characteristic resistance	$V^0_{Rk,s}$	[kN]	5,1	7,6	10,8	24,3
Steel failure with lever arm, Installation type V						
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	12,2	30,0	59,8	104,6
Steel failure with lever arm, Installation type D						
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	36,0	53,2	76,0	207
Partial factor for $V_{Rk,s}$ and $M^0_{Rk,s}$	γ_{Ms}	[-]	1,25			
Ductility factor	k_7	[-]	1,0			
W-FAZ-IG, stainless steel A4, HCR						
Steel failure without lever arm, Installation type V						
Characteristic resistance	$V^0_{Rk,s}$	[kN]	5,7	9,2	10,6	23,6
Partial factor	γ_{Ms}	[-]	1,25			
Steel failure without lever arm, Installation type D						
Characteristic resistance	$V^0_{Rk,s}$	[kN]	7,3	7,6	9,7	29,6
Partial factor	γ_{Ms}	[-]	1,25			
Steel failure with lever arm, Installation type V						
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	10,7	26,2	52,3	91,6
Partial factor	γ_{Ms}	[-]	1,56			
Steel failure with lever arm, Installation type D						
Characteristic bending resistance	$M^0_{Rk,s}$	[Nm]	28,2	44,3	69,9	191,2
Partial factor	γ_{Ms}	[-]	1,25			
Ductility factor	k_7	[-]	1,0			
Concrete pry-out failure						
Pry-out factor	k_8	[-]	1,5	1,5	2,0	2,0
Concrete edge failure						
Effective length of fastener in shear loading	l_f	[mm]	45	58	65	80
Effective diameter of fastener	d_{nom}	[mm]	8	10	12	16

Würth Fixanchor W-FAZ-IG

Performance
Characteristic values for **shear loads, W-FAZ-IG, cracked and uncracked concrete,** static and quasi-static action

Annex C13

Deutsches Institut für Bautechnik DIBt

Table C14: Characteristic values for **tension** and **shear load** under **fire exposure, W-FAZ-IG**, cracked and uncracked concrete C20/25 to C50/60

Fastener size				**M6**	**M8**	**M10**	**M12**
Tension load							
Steel failure							
Steel zinc plated							
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	0,7	1,4	2,5	3,7
	R60			0,6	1,2	2,0	2,9
	R90			0,5	0,9	1,5	2,2
	R120			0,4	0,8	1,3	1,8
Stainless steel A4, HCR							
Characteristic resistance	R30	$N_{Rk,s,fi}$	[kN]	2,9	5,4	8,7	12,6
	R60			1,9	3,8	6,3	9,2
	R90			1,0	2,1	3,9	5,7
	R120			0,5	1,3	2,7	4,0
Shear load							
Steel failure without lever arm							
Steel zinc plated							
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	0,7	1,4	2,5	3,7
	R60			0,6	1,2	2,0	2,9
	R90			0,5	0,9	1,5	2,2
	R120			0,4	0,8	1,3	1,8
Stainless steel A4, HCR							
Characteristic resistance	R30	$V_{Rk,s,fi}$	[kN]	2,9	5,4	8,7	12,6
	R60			1,9	3,8	6,3	9,2
	R90			1,0	2,1	3,9	5,7
	R120			0,5	1,3	2,7	4,0
Steel failure with lever arm							
Steel zinc plated							
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	0,5	1,4	3,3	5,7
	R60			0,4	1,2	2,6	4,6
	R90			0,4	0,9	2,0	3,4
	R120			0,3	0,8	1,6	2,8
Stainless steel A4, HCR							
Characteristic resistance	R30	$M^0_{Rk,s,fi}$	[Nm]	2,2	5,5	11,2	19,6
	R60			1,5	3,9	8,1	14,3
	R90			0,7	2,2	5,1	8,9
	R120			0,4	1,3	3,5	6,2

Würth Fixanchor W-FAZ-IG

Performance
Characteristic values for **tension** and **shear loads** under **fire exposure, W-FAZ-IG** cracked and uncracked concrete C20/25 to C50/60

Annex C14

Deutsches Institut für Bautechnik DIBt

Table C15: Displacements under tension load, W-FAZ-IG

Fastener size			M6	M8	M10	M12
Tension load in cracked concrete	N	[kN]	2,0	3,6	4,8	8,0
Displacements	δ_{N0}	[mm]	0,6	0,6	0,8	1,0
	$\delta_{N\infty}$	[mm]	0,8	0,8	1,2	1,4
Tension load in uncracked concrete	N	[kN]	4,8	6,4	8,0	12,0
Displacements	δ_{N0}	[mm]	0,4	0,5	0,7	0,8
	$\delta_{N\infty}$	[mm]	0,8	0,8	1,2	1,4

Table C16: Displacements under shear load, W-FAZ-IG

Fastener size			M6	M8	M10	M12
Shear load in cracked and uncracked concrete	V	[kN]	4,2	5,3	6,2	16,9
Displacements	δ_{V0}	[mm]	2,8	2,9	2,5	3,6
	$\delta_{V\infty}$	[mm]	4,2	4,4	3,8	5,3

ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

№LE_0904520801_04_M_W-FAZ

Настоящият текст е превод от немски на български.
В случай на съмнение важи оригиналът на немски

1. Уникален идентификационен код на типа на продукта: Würth Fixanker W-FAZ und W-FAZ-IG
   Art.-Nr.: (Würth фиксиращ анкер W-FAZ и W-FAZ-IG
   арт. №:) 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   с изключение на следните артикули: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Предвидена употреба/употреби: Механичен дюбел за използване в бетон
3. Производител: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Система (и) за оценка и проверка на постоянството на експлоатационните показатели: Система 1
5. Европейски документ за оценяване: EAD 330232-00-0601,
   Европейска техническа оценка: ETA-99/0011 - 02.10.2018 г.
   Орган за техническа оценка: Deutsches Institut für Bautechnik (DIBt), Berlin
   Нотифициран(и) орган(и): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Деклариран(и) експлоатационен(и) показател(и):

Основни характеристики	**Експлоатационни показатели**	**Хармонизирана техническа спецификация**
Механична якост и устойчивост (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Характерни съпротивления на натоварване на опън (статични и квазистатични въздействия)	за W-FAZ вижте приложение C1 до C4 за W-FAZ-IG вижте приложение C11 до C12	
Характерни съпротивления при напречно натоварване (статични и квазистатични въздействия)	за W-FAZ вижте приложение C5 за W-FAZ-IG вижте приложение C13	
Изместване (статични и квазистатични въздействия)	за W-FAZ вижте приложение C9 до C10 за W-FAZ-IG вижте приложение C15	
Характерно съпротивление и изместване за сеизмична категория експлоатационни характеристики C1 и C2	за W-FAZ вижте приложение C6, C9 и C10	
Противопожарна защита (BWR 2)		
Реакция на огън	Клас A1	

Огнеустойчивост	за W-FAZ вижте приложение C7 до C8 за W-FAZ-IG вижте приложение C14	

Съответна техническа документация и/или специфична техническа документация

Експлоатационните показатели на продукта, посочен по-горе, са в съответствие с декларираните експлоатационни показатели. Отговорност за издаването на декларацията за експлоатационни показатели носи изцяло производителят в съответствие с Регламент на (ЕС) № 305/2011.

Подписана за производителя и от името на производителя от:

Франк Волперт
(Прокурист - мениджър Пазар)

Д-р. инж. Зигфрид Байхтер
(Прокурист мениджър Качество)

Кюнцелзау, 22.2.2021 г.

PROHLÁŠENÍ O VLASTNOSTECH

Č. LE_0904520801_04_M_W-FAZ

Jedná se o verzi přeloženou z němčiny.
V případě pochybností platí německý originál

1. Jednoznačný identifikační kód typu výrobku: Pevná kotva Würth W-FAZ a W-FAZ-IG
   Č. výr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   s výjimkou následujících výrobků: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Zamýšlené/zamýšlená použití: Mechanická hmoždinka k použití v betonu
3. Výrobce: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Systém(y) pro hodnocení a kontrolu stálosti vlastností: Systém 1
5. Evropský dokument pro posuzování: EAD 330232-00-0601,
   Evropské technické schválení: ETA-99/0011 – 02. 10. 2018
   Pracoviště pro technické posuzování: Deutsches Institut für Bautechnik, Berlin (DIBt, Německý institut pro stavební techniku v Berlíně)
   Oznámený subjekt/oznámené subjekty: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Deklarovaná vlastnost/deklarované vlastnosti:

Podstatné charakteristické vlastnosti	**Vlastnost**	**Harmonizovaná technická specifikace**
Mechanická pevnost a stálost (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Charakteristické odolnosti při namáhání tahem (statické a kvazistatické účinky)	pro W-FAZ viz přílohu C1 až C4 pro W-FAZ-IG viz přílohu C11 až C12	
Charakteristické odolnosti při příčném namáhání (statické a kvazistatické účinky)	pro W-FAZ viz přílohu C5 pro W-FAZ-IG viz přílohu C13	
Posun (statické a kvazistatické účinky)	pro W-FAZ viz přílohu C9 až C10 pro W-FAZ-IG viz přílohu C15	
Charakteristická odolnost a posun pro seizmickou kategorii C1 a C2	pro W-FAZ viz přílohu C6, C9 a C10	
Požární ochrana (BWR 2)		
Reakce na oheň	Třída A1	
Požární odolnost	pro W-FAZ viz přílohu C7 až C8 pro W-FAZ-IG viz přílohu C14	

Přiměřená technická dokumentace a/nebo specifická technická dokumentace:

Vlastnosti výše uvedeného výrobku jsou ve shodě se souborem deklarovaných vlastností. Za vyhotovení prohlášení o vlastnostech v souladu s nařízením (EU) č. 305/2011 je odpovědný výhradně výše uvedený výrobce.

Podepsal za výrobce a jeho jménem:

Frank Wolpert
(zmocněnec – ředitel oddělení trhu)

Dr.-Ing. Siegfried Beichter
(zmocněnec – ředitel oddělení jakosti)

Künzelsau, 22. 02. 2021

YDEEVNEDEKLARATION

Nr. LE_0904520801_04_M_W-FAZ

Denne version er oversat fra tysk.
I tvivlstilfælde gælder den tyske original

1. Produkttypens entydige identifikationskode: Würth fast anker W-FAZ og W-FAZ-IG
art.-nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
med undtagelse af nedenstående artikler: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Anvendelsesformål: Mekanisk dyvel til brug i beton
3. Producent: Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12 - 17
D – 74653 Künzelsau
4. System(er) til bedømmelse og kontrol af ydelsesbestandigheden: System 1
5. Europæisk vurderingsdokument: EAD 330232-00-0601,
Europæisk teknisk bedømmelse: ETA-99/0011 - 02-10-2018
Teknisk evalueringsmyndighed: Deutsches Institut für Bautechnik (DIBt), Berlin
Notificeret myndighed/notificerede myndigheder: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt

6. Deklareret ydeevne/deklarerede ydeevner:

Væsentlige egenskaber	**Ydelse**	**Harmoniseret teknisk specifikation**
Mekanisk styrke og standsikkerhed (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Karakteristiske modstande under trækbelastning (statiske og kvasi-statiske laster)	for W-FAZ se bilag C1 til C4 for W-FAZ-IG se bilag C11 til C12	
Karakteristiske modstande under trækbelastning (statiske og kvasi-statiske laster)	for W-FAZ se bilag C5 for W-FAZ-IG se bilag C13	
Forskydning (statiske og nærmest statiske påvirkninger)	for W-FAZ se bilag C9 til C10 for W-FAZ-IG se bilag C15	
Karakteristisk modstand og forskydning til seismisk effektkategori C1 og C2	for W-FAZ: se bilag C6, C9 og C10	
Brandsikkerhed (BWR 2)		
Brandreaktion	Klasse A1	
Brandmodstand	for W-FAZ se bilag C7 til C8 for W-FAZ-IG se bilag C14	

Passende teknisk dokumentation og/eller specifik teknisk dokumentation:

Det ovenstående produkts ydeevne svarer til den deklarerede ydeevne/de deklarerede ydeevner. For udstedelsen af ydeevnedeklarationen i henhold til forordning (EU) nr. 305/2011 er udelukkende ovenstående producent ansvarlig.

Underskrevet for og på vegne af producenten af:

Frank Wolpert
(Prokurist – Leder af markedsafdelingen)

Dr.-ing. Siegfried Beichter
(Prokurist – Leder af kvalitetsafdelingen)

Künzelsau, den 22.02.2021

LEISTUNGSERKLÄRUNG

Nr. LE_0904520801_04_M_W-FAZ

1. Eindeutiger Kenncode des Produkttyps: Würth Fixanker W-FAZ und W-FAZ-IG
   Art.-Nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   ausgenommen nachstehende Artikel: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Verwendungszweck(e): Mechanischer Dübel zur Verwendung im Beton
3. Hersteller: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit: System 1
5. Europäisches Bewertungsdokument: EAD 330232-00-0601,
   Europäische Technische Bewertung: ETA-99/0011 - 02.10.2018
   Technische Bewertungsstelle: Deutsches Institut für Bautechnik (DIBt), Berlin
   Notifizierte Stelle(n): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Erklärte Leistung(en):

Wesentliche Merkmale	**Leistung**	**Harmonisierte technische Spezifikation**
Mechanische Festigkeit und Standsicherheit (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Charakteristische Widerstände unter Zugbeanspruchung (statische und quasi-statische Einwirkungen)	für den W-FAZ siehe Anhang C1 bis C4 für den W-FAZ-IG siehe Anhang C11 bis C12	
Charakteristische Wiederstände unter Querbeanspruchung (statische und quasi-statische Einwirkungen)	für den W-FAZ siehe Anhang C5 für den W-FAZ-IG siehe Anhang C13	
Verschiebung (statische und quasi-statische Einwirkungen)	für den W-FAZ siehe Anhang C9 bis C10 für den W-FAZ-IG siehe Anhang C15	
Charakteristische Widerstand und Verschiebung für die seismische Leistungskategorie C1 und C2	für den W-FAZ siehe Anhang C6, C9 und C10	
Brandschutz (BWR 2)		
Brandverhalten	Klasse A1	
Feuerwiderstand	für den W-FAZ siehe Anhang C7 bis C8 für den W-FAZ-IG siehe Anhang C14	

Angemessene Technische Dokumentation und/oder Spezifische Technische Dokumentation:

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der obengenannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Frank Wolpert
(Prokurist – Leiter Bereich Markt)

Dr. –Ing. Siegfried Beichter
(Prokurist - Leiter Qualität)

Künzelsau, den 22.02.2021

DECLARACIÓN DE PRESTACIONES

N° LE_0904520801_04_M_W-FAZ

Esta versión está traducida del alemán.
En caso de duda es aplicable el original alemán

1. Código de identificación única del producto tipo: Anclaje rápido Würth W-FAZ y W-FAZ-IG-:
N° de art.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
quedan exceptuados los artículos siguientes: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Uso(s) previsto(s): Taco mecánico para uso en hormigón
3. Fabricante: Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12 - 17
D – 74653 Künzelsau
4. Sistema(s) de evaluación y verificación de la constancia de las prestaciones: Sistema 1
5. Documento de evaluación europeo: EAD 330232-00-0601,
Evaluación Técnica Europea: ETA-99/0011 – del 02/10/2018
Organismo de Evaluación Técnica: Deutsches Institut für Bautechnik (Instituto Alemán de Tecnología de la Construcción), Berlín
Organismo(s) notificado(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Prestaciones declaradas:

Características esenciales	**Prestación**	**Especificación técnica armonizada**
Resistencia mecánica y estabilidad (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Resistencias características bajo esfuerzo de tracción (efectos estáticos o cuasiestáticos)	para el W-FAZ, véanse los anexos del C1 al C4 para el W-FAZ-IG, véanse los anexos del C11 al C12	
Resistencias características bajo esfuerzo transversal (efectos estáticos o cuasiestáticos)	para el W-FAZ, véase el anexo C5 para el W-FAZ-IG, véase el anexo C13	
Desplazamiento (efectos estáticos o cuasiestáticos)	para el W-FAZ, véanse los anexos del C9 al C10 para el W-FAZ-IG, véase el anexo C15	
Resistencia característica y desplazamiento para las categorías de actividad sísmica C1 y C2	para el W-FAZ, véanse los anexos C6, C9 y C10	
Protección contra incendios (BWR 2)		
Reacción al fuego	Clase A1	
Resistencia al fuego	para el W-FAZ, véanse los anexos del C7 al C8 para el W-FAZ-IG, véase el anexo C14	

Documentación técnica adecuada y/o documentación técnica específica:

Las prestaciones del producto identificado anteriormente son conformes con el conjunto de prestaciones declaradas. La presente declaración de prestaciones se emite de conformidad con el Reglamento (UE) n.° 305/2011, bajo la sola responsabilidad del fabricante arriba identificado.

Firmado por y en nombre del fabricante por:

Frank Wolpert
(Apoderado – Director de área de mercado)

Dr. –Ing. Siegfried Beichter
(Apoderado – Director de Calidad)

Künzelsau, el 22/02/2021

TOIMIVUSDEKLARATSIOON

Nr LE_0904520801_04_M_W-FAZ

Tegemist on saksa keelest tõlgitud versiooniga.
Kahtluste korral kehtib saksakeelne originaaltekst

1. Tootetüübi kordumatu identifitseerimiskood: Würthi kinnitusankur W-FAZ ja W-FAZ-IG
art-nr: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
välja arvatud järgmised artiklid: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Ettenähtud kasutusotstarve või -otstarbed: Mehaaniline tüübel kasutamiseks betoonis
3. Tootja: Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12 - 17
D – 74653 Künzelsau
4. Toimivuse püsivuse hindamise ja kontrolli süsteem(id): Süsteem 1
5. Euroopa hindamisdokument: EAD 330232-00-0601,
Euroopa tehniline hinnang: ETA-99/0011, 2.10.2018
Tehnilise hindamise asutus: Deutsches Institut für Bautechnik (DIBt), Berliin
Teavitatud asutus(ed): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Deklareeritud toimivus(ed):

Põhiomadused	**Toimivus**	**Ühtlustatud tehniline kirjeldus**
Mehaaniline tugevus ja vastupidavus (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Iseloomulikud vastupanud tõmbejõule (staatilised ja poolstaatilised mõjud)	W-FAZ osas vt lisa C1 kuni C4 W-FAZ-IG osas vt lisa C11 kuni C12	
Iseloomulikud vastupanud külgjõule (staatilised ja poolstaatilised mõjud)	W-FAZ osas vt lisa C5 W-FAZ-IG osas vt lisa C13	
Nihe (staatiline ja poolstaatiline mõju)	W-FAZ osas vt lisa C9 kuni C10 W-FAZ-IG osas vt lisa C15	
Iseloomulik vastupanu ja nihe seismiliste toimivuskategooriate C1 ja C2 jaoks	W-FAZ osas vt lisa C6, C9 ja C10	
Tulekaitse (BWR 2)		
Tuletundlikkus	Klass A1	
Tuletakistus	W-FAZ osas vt lisa C7 kuni C8 W-FAZ-IG osas vt lisa C14	

Piisav tehniline dokumentatsioon ja/või tehniline eridokumentatsioon:

Eespool nimetatud toodete toimivus vastab deklareeritud toimivusele / deklareeritud toimivustele. Vastavusdeklaratsiooni koostamise eest kooskõlas määrusega (EL) nr 305/2011 vastutab ainuisikuliselt eespool nimetatud tootja.

Tootja poolt ja nimel allkirjastanud:

Frank Wolpert
(prokurist – turu valdkonna juht)

Dr. ins. Siegfried Beichter
(prokurist – kvaliteedijuht)

Künzelsau, 22.02.2021

SUORITUSTASOILMOITUS

Nro LE_0904520801_04_M_W-FAZ

Tämä on käännös saksankielisestä.
Epäilyksissä pätee saksankielinen alkuperäisilmoitus.

1. Tuotetyypin yksilöllinen tunniste: Würth kiila-ankkuri W-FAZ ja W-FAZ-IG
   Tuote-nro: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   Lukuun ottamatta seuraavia tuotteita: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Aiottu käyttötarkoitus (aiotut käyttötarkoitukset): Mekaaninen ankkuri käytettäväksi betonissa
3. Valmistaja: Adolf Würth GmbH & Co. KG
   Reinhold- Würth-Str. 12 - 17
   D – 74653 Künzelsau, Saksa
4. Suoritustason arvioinnin ja tarkistamisen järjestelmä(t): Järjestelmä 1
5. Eurooppalainen arviointidokumentti: EAD 330232-00-0601,
   Eurooppalainen tekninen arviointi: ETA-99/0011- 2.10.2018
   Teknisestä arvioinnista vastaava laitos: Deutsches Institut für Bautechnik (DIBt; Saksan rakennustekninen instituutti), Berliini
   Ilmoitettu laitos / ilmoitetut laitokset: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW; teräsrakenneteollisuuden ja materiaalimekaniikan instituutti), Darmstadt
6. Ilmoitettu suoritustaso/ilmoitetut suoritustasot:

Perusominaisuudet	**Teho**	**Yhdenmukaistetut tekniset eritelmät**
Mekaaninen lujuus ja vakaus (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Ominaisvastukset vetokuormituksessa (staattiset ja kvasistaattiset rasitukset)	W-FAZ:aa varten katso liitteet C1 - C4 W-FAZ-IG:tä varten katso liitteet C11 - C12	
Ominaisvastukset poikkikuormituksessa (staattiset ja kvasistaattiset rasitukset)	W-FAZ:aa varten katso liite C5 W-FAZ-IG:tä varten katso liite C13	
Siirtymä (staattiset ja kvasistaattiset vaikutukset)	W-FAZ:aa varten katso liitteet C9 - C10 W-FAZ-IG:tä varten katso liite C15	
Ominaisvastus ja siirtymä seismisille teholuokille C1 ja C2	W-FAZ:aa varten katso liitteet C6, C9 ja C10	
Palosuoja (BWR 2)		
Palokäyttäytyminen	Luokka A1	
Palonkestävyys	W-FAZ:aa varten katso liitteet C7 - C8 W-FAZ-IG:tä varten katso liite C14	

Asianmukainen tekninen asiakirja ja/tai tekninen erityisasiakirja:

Edellä yksilöidyn tuotteen suoritustaso on ilmoitettujen suoritustasojen joukon mukainen. Tämä suoritustasoilmoitus on asetuksen (EU) N:o 305/2011 mukaisesti annettu edellä ilmoitetun valmistajan yksinomaisella vastuulla.

Valmistajan puolesta allekirjoittanut:

Frank Wolpert
(Prokuristi - markkinapäällikkö)

TkT Siegfried Beichter
(Prokuristi - laadunjohtaja)

Künzelsau, 22.02.2021

DÉCLARATION DE PERFORMANCES

N° LE_0904520801_04_M_W-FAZ

Il s'agit ici de la version traduite à partir de l'allemand.
En cas de doute, la version allemande fait foi

1. Code d'identification unique du produit type : Ancres fixes Würth W-FAZ et W-FAZ-IG
   N° de réf. : 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   les articles suivants ne sont pas concernés : 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Usage(s) prévu(s) : Chevilles mécaniques à utiliser dans le béton
3. Fabricant : Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 – 17
   D – 74653 Künzelsau
4. Système(s) d'évaluation et de vérification de la constance des performances : Système 1
5. Document d'évaluation européen : EAD 330232-00-0601
   Évaluation technique européenne : ETA-99/0011 du 02/10/2018
   Organisme d'évaluation technique : Deutsches Institut für Bautechnik (DIBt), Berlin
   Organisme(s) notifié(s) : 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Performance(s) déclarée(s) :

Caractéristiques essentielles	**Performance**	**Spécification technique harmonisée**
Résistance mécanique et stabilité verticale (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Résistances caractéristiques sous contrainte de traction (forces pénétrantes statiques et quasi-statiques)	pour la W-FAZ, voir les annexes C1 à C4 pour la W-FAZ-IG, voir les annexes C11 à C12	
Résistances caractéristiques sous contrainte transversale (forces pénétrantes statiques et quasi-statiques)	pour la W-FAZ, voir l'annexe C5 pour la W-FAZ-IG, voir l'annexe C13	
Déplacements (forces pénétrantes statiques et quasi-statiques)	pour la W-FAZ, voir les annexes C9 à C10 pour la W-FAZ-IG, voir l'annexe C15	
Résistance caractéristique et déplacement pour la catégorie de performance sismique C1 et C2	pour la W-FAZ, voir les annexes C6, C9 et C10	
Protection incendie (BWR 2)		
Réaction au feu	Classe A1	
Résistance au feu	pour la W-FAZ, voir les annexes C7 à C8 pour la W-FAZ-IG, voir l'annexe C14	

Documentation technique raisonnable et/ou documentation technique spécifique :

La performance du produit susmentionné correspond à la performance / aux performances déclarée(s). Conformément au règlement (UE) N°305/2011, la présente déclaration des performances est établie sous la seule responsabilité du fabricant mentionné ci-dessus.

Signée pour le fabricant et en son nom par :

Frank Wolpert
(Fondé de pouvoir – Directeur domaine Marché)

Dr. –Ing. Siegfried Beichter
(Fondé de pouvoir – Directeur Qualité)

Künzelsau, le 22/02/2021

DEARBHÚ FEIDHMÍOCHTA

Uimh. LE_0904520801_04_M_W-FAZ

Is é seo an leagan a aistríodh ón nGearmáinis.
Má tá aon amhras ort tá feidhm ag an bunleagan Gearmáinise

1. Cód aitheantais uathúil an chineáil táirge: Würth Fixanker W-FAZ und W-FAZ-IG
   Uimh.earra: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   seachas na hearraí seo a leanas: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Úsáid(í) b(h)eartaithe: Ancaire meicniúil le húsáid i gcoincréit
3. Déantúsóir: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Córa(i)s chun seasmhacht feidhmíochta a mheas agus a scrúdú: Córas 1
5. Doiciméad Measúnaithe Eorpach: EAD 330232-00-0601,
   Measúnú Teicniúil Eorpach: ETA-99/0011 - 02/10/2018
   Ionad Measúnaithe Teicniúil: Deutsches Institut für Bautechnik, DIBt (Ionad Teicníocht Tógála na Gearmáine), Beirlín
   Iona(i)d dá dtugtar fógra: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Institiúid um Fhoirgníocht Chruach agus Meicníocht Ábhair (IFSW), Darmstadt

6. Feidhmíocht(aí) d(h)earbhaithe:

Príomhthréithe	**Feidhmíocht**	**Sonraíocht theicniúil chomhchuibhithe**
Friotaíocht agus Cobhsaíocht Mheicniúil (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Friotaíocht thréitheach faoi strus tarraingthe (éifeachtaí statacha agus cuasastatacha)	le haghaidh an W-FAZ féach iarscríbhinn C1 go C4 le haghaidh an W-FAZ-IG féach iarscríbhinn C11 go C12	
Frioaíochtaí tréitheacha faoi strus trasnach (éifeachtaí statacha agus cuasastatacha)	le haghaidh an W-FAZ féach iarscríbhinn C5 le haghaidh W-FAZ-IG féach iarscríbhinn C13	
Bogadh (tionchair statacha agus cuasastatacha)	le haghaidh an W-FAZ féach iarscríbhinn C9 go C10 le haghaidh an W-FAZ-IG féach iarscríbhinn C15	
Friotaíocht thréitheach agus aistriú maidir le catagóir feidhmíochta sheismeach C1 agus C2	maidir leis an W-FAZ féach iarscríbhinn C6, C9 agus C10	
Cosaint dóiteáin (BWR 2)		
Iompar i gcás dóiteáin	Aicme A1	

Friotaíocht i gcoinne tine	le haghaidh an W-FAZ féach iarscríbhinn C7 go C8 le haghaidh an W-FAZ-IG féach iarscríbhinn C14	

Doiciméadú teicniúil iomchuí agus/nó doiciméadú teicniúil shonrach:

Tá feidhmíocht an táirge thuas ag teacht leis an bhfeidhmíocht dhearbhaithe/na feidhmíochtaí dearbhaithe. Is ar an déantúsóir thuasluaite amháin atá an fhreagracht Dearbhú Feidhmíochta a dhéanamh de réir Rialacháin (AE) Uimh. 305/2011.

Sínithe ar son agus thar ceann an déantúsóra ag:

Frank Wolpert
(Oifigeach Údaraithe - Ceann na Roinne Margaidh)

Dr. –Ing. Siegfried Beichter
(Oifigeach Údaraithe - Stiúrthóir Cáilíochta)

Künzelsau, 22 Feabhra, 2021

ΔΗΛΩΣΗ ΕΠΙΔΟΣΕΩΝ

Αρ. LE_0904520801_04_M_W-FAZ

Πρόκειται για την έκδοση μεταφρασμένη από τα γερμανικά.
Σε περίπτωση αμφιβολιών, ισχύει το γερμανικό πρωτότυπο

1. Μοναδικός κωδικός αναγνώρισης του τύπου του προϊόντος: Αγκύρια στερέωσης Würth W-FAZ και W-FAZ-IG
   Αρ. είδ.: 090452*, 090453*, 09046*, 090470*, 090471*, 090480*, 090481*, 5928*
   εκτός των παρακάτω ειδών: 0904710001, 0904710002, 0904710003, 09046, 090460, 090480, 09048040
2. Σκοπός (-οί) χρήσης: Μηχανικό αγκύριο για χρήση σε σκυρόδεμα
3. Κατασκευαστής: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Σύστημα (-τα) για την αξιολόγηση και τον έλεγχο της διατήρησης της επίδοσης: Σύστημα 1
5. Ευρωπαϊκό έντυπο αξιολόγησης: EAD 330232-00-0601,
   Ευρωπαϊκή τεχνική αξιολόγηση: ETA-99/0011 - 02.10.2018
   Οργανισμός τεχνικής αξιολόγησης: Deutsches Institut für Bautechnik (DIBt), Βερολίνο
   Κοινοποιημένος οργανισμός (-οί): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Δηλωμένη επίδοση (-εις):

Σημαντικά χαρακτηριστικά	**Επίδοση**	**Εναρμονισμένες τεχνικές προδιαγραφές**
Μηχανική αντοχή και αντίσταση (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Χαρακτηριστικές αντιστάσεις υπό εφελκυστική καταπόνηση (στατικές και οιονεί στατικές επιδράσεις)	για το W-FAZ βλέπε παράρτημα C1 έως C4 για το W-FAZ-IG βλέπε παράρτημα C11 έως C12	
Χαρακτηριστικές αντιστάσεις υπό εγκάρσια καταπόνηση (στατικές και οιονεί στατικές επιδράσεις)	για το W-FAZ βλέπε παράρτημα C5 για το W-FAZ-IG βλέπε παράρτημα C13	
Μετατόπιση (στατικές και οιονεί στατικές επιδράσεις)	για το W-FAZ βλέπε παράρτημα C9 έως C10 για το W-FAZ-IG βλέπε παράρτημα C15	
Χαρακτηριστική αντίσταση και μετατόπιση για τη σεισμική κατηγορία ισχύος C1 και C2	για το W-FAZ βλέπε παράρτημα C6, C9 και C10	
Πυροπροστασία (BWR 2)		
Συμπεριφορά σε πυρκαγιά	Κατηγορία A1	
Αντοχή σε πυρκαγιά	για το W-FAZ βλέπε παράρτημα C7 έως C8 για το W-FAZ-IG βλέπε παράρτημα C14	

Κατάλληλη τεχνική τεκμηρίωση ή/και ειδική τεχνική τεκμηρίωση:

Η επίδοση του προαναφερόμενου προϊόντος αντιστοιχεί στη δηλωμένη επίδοση/στις δηλωμένες επιδόσεις. Για τη σύνταξη της δήλωσης επιδόσεων σε συμμόρφωση με τον κανονισμό (ΕΕ) αρ. 305/2011 ο μόνος υπεύθυνος είναι ο προαναφερόμενος κατασκευαστής.

Υπογράφεται για τον κατασκευαστή και εν ονόματι του κατασκευαστή από:

Frank Wolpert
(Γενικός εμπορικός πληρεξούσιος – Διευθυντής τμήματος αγοράς)

Dr. –Ing. Siegfried Beichter
(Γενικός εμπορικός πληρεξούσιος - Διευθυντής ποιότητας)

Künzelsau, την 22.02.2021

IZJAVA O SVOJSTVIMA

Br. LE_0904520801_04_M_W-FAZ

Ova je verzija teksta prevedena s njemačkog.
U slučaju dvojbe original na njemačkom ima prednost

1. Jedinstvena identifikacijska oznaka tipa proizvoda: Würth sidreni vijak W-FAZ i W-FAZ-IG
   Br. art.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   osim sljedećih artikala: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Namjena(e): mehaničko sidro za upotrebu u betonu
3. Proizvođač: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Sustav/i za ocjenjivanje i provjeru postojanosti svojstava: Sustav 1
5. Europski dokument za ocjenjivanje: EAD 330232-00-0601,
   Europska tehnička ocjena: ETA-99/0011 - 2. 10. 2018.
   Tijelo za tehničku ocjenu: Njemački institut građevinarstva (DIBt), Berlin
   Prijavljeno/a tijelo/a: 2873, Institut za čelične konstrukcije i mehaniku materijala (IFSW), Darmstadt
6. Navedeno svojstvo/a:

Bitna obilježja	**Svojstvo**	**Usklađene tehničke specifikacije**
Mehanička čvrstoća i stabilnost (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Karakteristični otpori pri uzdužnom opterećenju (statično i kvazistatično djelovanje):	za W-FAZ vidi priloge C1 do C4 za W-FAZ-IG vidi priloge C11 do C12	
Karakteristični otpor pri poprečnom opterećenju (statično i kvazistatično djelovanje)	za W-FAZ vidi prilog C5 za W-FAZ-IG vidi priloge C13	
Pomicanje (statična i kvazistatična djelovanja)	za W-FAZ vidi priloge C9 do C10 za W-FAZ-IG vidi prilog c15	
Karakteristični otpor i pomicanje za seizmičku kategoriju učinka C1 i C2	za W-FAZ vidi priloge C6, C9 i C10	
Zaštita od požara (BWR 2)		
Ponašanje u slučaju požara	Klasa A1	
Otpornost na požar	za W-FAZ vidi priloge C7 do C8 za W-FAZ-IG vidi prilog C14	

Prikladna tehnička dokumentacija i/ili specifična tehnička dokumentacija:

Svojstvo gore navedenog proizvoda odgovara navedenom svojstvu / navedenim svojstvima. Za izradu Izjave o svojstvima prema Odredbi (EU) br. 305/2011 isključivo je odgovoran gore navedeni proizvođač.

Potpisano za i u ime proizvođača od strane:

Frank Wolpert
(Prokurist – voditelj odjela za tržište)

Dr. – Ing. Siegfried Beichter
(Prokurist – voditelj za kvalitetu)

Künzelsau, 22.2.2021.

TELJESÍTMÉNYNYILATKOZAT

LE_0904520801_04_M_W-FAZ sz.

Ez a német nyelvről lefordított változat.
Kétség esetén a német nyelvű eredeti az érvényes.

1. A terméktípus egyedi azonosító kódja: Würth W-FAZ és W-FAZ-IG rögzítőhorgony
   Cikkszámok: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   a következő cikkek kivételével: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Felhasználási cél(ok): Mechanikus dübel betonban való használatra
3. Gyártó: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. A teljesítményállandóság értékelésére és ellenőrzésére szolgáló rendszer(ek): 1-es rendszer
5. Európai értékelési dokumentum: EAD 330232-00-0601,
   Európai Műszaki Értékelés: ETA-99/0011 - 2018.10.02.
   Műszaki értékelő szervezet: Deutsches Institut für Bautechnik (DIBt), Berlin
   Bejelentett szerv(ek): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Nyilatkozatban szereplő teljesítmény(ek):

Lényeges jellemzők	**Teljesítmény**	**Harmonizált műszaki specifikáció**
Mechanikai szilárdság és állékonyság (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Jellemző ellenállások húzó igénybevétel esetén (statikus és kvázi-statikus hatások)	W-FAZ: lásd a C1 – C4 mellékleteket W-FAZ-IG: lásd a C11 – C12 mellékleteket	
Jellemző ellenállások keresztirányú igénybevétel esetén (statikus és kvázi-statikus hatások)	W-FAZ: lásd a C5 mellékletet W-FAZ-IG: lásd a C13 mellékletet	
Eltolódás (statikus és kvázi-statikus hatások)	W-FAZ: lásd a C9 – C10 mellékleteket W-FAZ-IG: lásd a C15 mellékletet	
Jellemző ellenállás és eltolódás a C1 és C2 szeizmikus teljesítménykategória esetén	W-FAZ: lásd a C6, C9 és C10 mellékleteket	
Tűzvédelem (BWR 2)		
Tűzzel szembeni viselkedés	A1 osztály	
Tűzállóság	W-FAZ: lásd a C7 – C8 mellékleteket W-FAZ-IG: lásd a C14 mellékletet	

Megfelelő Műszaki Dokumentáció és/vagy Speciális Műszaki Dokumentáció:

A fent megnevezett termék teljesítménye megfelel a teljesítménynyilatkozatban rögzített teljesítménynek/teljesítményeknek. A 305/2011 sz. EU rendelet előírásai alapján készült teljesítménynyilatkozat összeállítása kizárólag a fent nevezett gyártó felelőssége.

A gyártó képviseletében és nevében aláírta:

Frank Wolpert

(cégvezető – piac szakterület vezetője)

Dr. –Ing. Siegfried Beichter

(cégvezető – minőségügyi vezető)

Künzelsau, 2021.02.22.

DICHIARAZIONE DI PRESTAZIONE

N. LE_0904520801_04_M_W-FAZ

La presente è la versione tradotta dal tedesco.
In caso di incertezze si considera valido l'originale in tedesco

1. Codice di identificazione unico del prodotto-tipo: Würth Fixanker W-FAZ und W-FAZ-IG (Ancoranti Würth W-FAZ e W-FAZ-IG)
   Art. n.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   eccetto gli articoli seguenti: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Utilizzo/i previsto/i: Tassello meccanico per l'utilizzo nel calcestruzzo
3. Azienda produttrice: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Sistema/i di valutazione e verifica della prestazione: Sistema 1
5. Documento per la Valutazione Europea: EAD 330232-00-0601,
   Valutazione tecnica europea: ETA-99/0011 - 02.10.2018
   Organismo di valutazione tecnica: Deutsches Institut für Bautechnik (DIBt), Berlino
   Organismo/i notificato/i: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Prestazione/i dichiarata/e:

Caratteristiche essenziali	**Prestazione**	**Norma tecnica armonizzata**
Resistenza meccanica e stabilità (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Resistenze caratteristiche a trazione (carichi statici e quasi statici)	Per il modello W-FAZ si vedano allegati da C1 a C4 Per il modello W-FAZ-IG si vedano allegati da C11 a C12	
Resistenze caratteristiche ai carichi orizzontali (carichi statici e quasi statici)	Per il modello W-FAZ si veda l'allegato C5 Per il modello W-FAZ-IG si veda l'allegato C13	
Variazione (carichi statici e quasi statici)	Per il modello W-FAZ si vedano allegati da C9 a C10 Per il modello W-FAZ-IG si veda l'allegato C15	
Resistenza e variazione caratteristiche per le categorie sismiche C1 e C2	Per il modello W-FAZ si vedano allegati C6, C9 e C10	
Sicurezza in caso di incendio (BWR 2)		
Reazione al fuoco	Classe A1	
Resistenza al fuoco	Per il modello W-FAZ si vedano allegati da C7 a C8 Per il modello W-FAZ-IG si veda l'allegato C14	

Documentazione tecnica adeguata e/o documentazione tecnica specifica:

La prestazione del prodotto di cui sopra è conforme alla prestazione dichiarata/alle prestazioni dichiarate. Si rilascia la presente dichiarazione di prestazione ai sensi del Regolamento (UE) N. 305/2011 sotto la responsabilità esclusiva del suddetto fabbricante.

Firmato a nome e per conto del fabbricante da:

Frank Wolpert
(Procuratore – Responsabile Settore Mercato)

Dr. –Ing. Siegfried Beichter
(Procuratore - Responsabile Qualità)

Künzelsau, 22.02.2021

EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

Nr. LE_0904520801_04_M_W-FAZ

Tai yra vertimas iš vokiečių kalbos.
Kilus abejonių, vadovautis originalu vokiečių kalba.

1. Produkto tipo unikalus atpažinimo kodas: „Würth“ įtvirtinamas inkaras W-FAZ ir W-FAZ-IG
   Prekės Nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   išskyrus šiuos artikulus: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Naudojimo paskirtis (-ys): Mechaninis kaištis, skirtas tvirtinti betone
3. Gamintojas: „Adolf Würth GmbH & Co. KG“
   Reinhold-Würth-Str. 12 – 17
   D – 74653 Kiuncelsau
4. Eksploatacinių savybių atsparumo įvertinimo ir patikrinimo sistema (-os): 1 sistema
5. Europos įvertinimo dokumentas: EAD 330232-00-0601,
   Europos techninis įvertinimas: ETA-99/0011, atliktas 2018-10-02
   Techninio vertinimo įstaiga: „Deutsches Institut für Bautechnik (DIBt)“, Berlynas
   Notifikuotoji (-osios) įstaiga (-os): 2873, „Institut für Stahlbau und Werkstoffmechanik“ (IFSW), Darmštatas
6. Deklaruojama (-os) eksploatacinė (-s) savybė (-s):

Pagrindinės charakteristikos	**Eksploatacinės savybės**	**Darnusis techninis standartas**
Mechaninis stiprumas ir stabilumas (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Būdingi pasipriešinimo tempimo įtampai tipai (statinė ir kvazistatinė apkrova)	Inkarui W-FAZ žr. priedą nuo C1 iki C4 Inkarui W-FAZ-IG žr. priedą nuo C11 iki C12	
Būdingi pasipriešinimo tempimo įtampai tipai (statinė ir kvazistatinė apkrova)	Inkarui W-FAZ žr. C5 priedą Inkarui W-FAZ-IG žr. C13 priedą	
Poslinkiai (statinė ir kvazistatinė apkrova)	Inkarui W-FAZ žr. priedą nuo C9 iki C10 Inkarui W-FAZ-IG žr. C15 priedą	
Būdingas atsparumas ir poslinkis seisminei eksploatacinių savybių kategorijai C1 ir C2.	Inkarui W-FAZ žr. C6, C9 ir C10 priedą	
Priešgaisrinė apsauga (BWR 2)		
Degumas	A1 klasė	
Atsparumas ugniai	Inkarui W-FAZ žr. priedą nuo C7 iki C8 Inkarui W-FAZ-IG žr. C14 priedą	

Suderinta techninė dokumentacija ir (arba) specifinė techninė dokumentacija:

Turimos produkto eksploatacinės savybės atitinka deklaruotas eksploatacines savybes. Už eksploatacinių savybių deklaracijos, atitinkančios potvarkį (ES) Nr. 305/2011, sudarymą atsako tik nurodytas gamintojas.

Pasirašo gamintojas ir atstovas gamintojo vardu:

Frank Wolpert
(Įgaliotasis rinkos vadovas)

Dr. inž. Siegfried Beichter
(Įgaliotasis kokybės vadovas)

Kiuncelsau, 2021-02-22

EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

Nr. LE_0904520801_04_M_W-FAZ

Šī ir no vācu valodas tulkota dokumenta versija.
Šaubu gadījumā spēkā ir oriģināls vācu valodā

1. Nepārprotams produkta tipa identifikācijas kods: Würth fiksējošais enkurs W-FAZ un W-FAZ-IG
   Preces Nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   izņemot turpmāk minētās preces: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Lietojuma mērķis(-i): Mehāniskie dībeļi betona konstrukcijām
3. Ražotājs: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau (Kincelzava, Vācija)
4. Ekspluatācijas īpašību noturības novērtējuma un pārbaudes sistēma(-as): Sistēma 1
5. Eiropas novērtējuma dokuments: EAD 330232-00-0601,
   Eiropas Tehniskais novērtējums: ETA-99/0011 - 02.10.2018.
   Tehniskā novērtējuma iestāde: Deutsches Institut für Bautechnik (DIBt), Berlin (Berlīne)
   Paziņotā(-ās) iestāde(-es): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Darmštate)
6. Deklarētā(-ās) ekspluatācijas īpašība(-as):

Būtiskie raksturlielumi	**Ekspluatācijas īpašības**	**Saskaņotā tehniskā specifikācija**
Mehāniskā izturība un stiprība *(BWR 1)*		ETA-99/0011 EAD 330232-00-0601
Raksturīgās pretestības stiepes slodzei (statiska un kvazistatiska iedarbība)	modelim W-FAZ, skatīt C1 līdz C4 pielikumu modelim W-FAZ-IG, skatīt C11 līdz C12 pielikumu	
Raksturīgās pretestības šķērsslodzei (statiska un kvazistatiska iedarbība)	modelim W-FAZ, skatīt C5 pielikumu modelim W-FAZ-IG, skatīt C13 pielikumu	
Bīde (statiskas un kvazistatiskas iedarbības)	modelim W-FAZ, skatīt C9 līdz C10 pielikumu modelim W-FAZ-IG, skatīt C15 pielikumu	
Raksturīgā pretestība un bīde saistībā ar seismisko īpašību kategoriju C1 un C2	modelim W-FAZ, skatīt C6, C9 un C10 pielikumu	
Ugunsdrošība *(BWR 2)*		
Degšanas īpašības	A1 klase	
Ugunsizturība	modelim W-FAZ, skatīt C7 līdz C8 pielikumu modelim W-FAZ-IG, skatīt C14 pielikumu	

Atbilstoša tehniskā dokumentācija un/vai specifiska tehniskā dokumentācija:

Šā produkta ekspluatācijas īpašības atbilst deklarētajai(-ām) ekspluatācijas īpašībai(-ām). Par ekspluatācijas īpašību deklarācijas sagatavošanu saskaņā ar Regulu (ES) Nr. 305/2011 ir atbildīgs tikai iepriekš minētais ražotājs.

Ražotāja un ražotāja pārstāvja paraksts:

Frank Wolpert (Franks Volperts)

(Prokūrists – Tirgus nodaļas vadītājs)

Dr. –Ing. Siegfried Beichter (Dr. ing. Zigfrīds Beihters)
(Prokūrists — Kvalitātes sistēmas vadītājs)

Künzelsau (Kincelzava), 22.02.2021.

DIKJARAZZJONI TA' PRESTAZZJONI

Nru LE_0904520801_04_M_W-FAZ

Din hija l-verżjoni tradotta mill-Ġermaniż.
F'każ ta' dubju jgħodd id-dokument oriġinali bil-lingwa Ġermaniża

1. Kodiċi uniku ta' identifikazzjoni tat-tip tal-prodott: Würth Fixanchor W-FAZ u W-FAZ-IG
   Nru tal-oġġett: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   b'esklużjoni ta' dawn il-prodotti: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Użu/i intenzjonat/i: Kavilja mekkanika għall-użu fil-konkrit
3. Manifattur: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Sistema jew sistemi ta' valutazzjoni u verifika tal-kostanza ta' prestazzjoni: Sistema 1
5. Dokument Ewropew ta' valutazzjoni: EAD 330232-00-0601,
   Valutazzjoni Teknika Ewropea: ETA-99/0011 - 02/10/2018
   Korp tal-valutazzjoni teknika: Deutsches Institut für Bautechnik (DIBt), Berlin
   Korp/i nnotifikat/i: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt, Germany
6. Prestazzjoni/jiet ddikjarata/i:

Karatteristiċi essenzjali	**Prestazzjoni**	**Speċifikazzjoni teknika armonizzata**
Stabbiltà u ebusija mekkanika (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Reżistenzi karatteristiċi taħt stress tensili (tagħbija statika u kważi statika):	għal W-FAZ ara l-Annessi C1 sa C4 għal W-FAZ-IG ara l-Annessi C11 sa C12	
Reżistenzi karatteristiċi taħt stress transversali (tagħbija statika u kważi statika)	għal W-FAZ ara l-Anness C5 għal W-FAZ-IG ara l-Anness C13	
Spostament (tagħbija statika u kważi statika)	għal W-FAZ ara l-Annessi C9 sa C10 għal W-FAZ-IG ara l-Anness C15	
Reżistenza karatteristika u spostament għall-kategorija ta' prestazzjoni siżmika C1 u C2	għal W-FAZ ara l-Annessi C6, C9 u C10	
Protezzjoni kontra n-nar (BWR 2)		
Reazzjoni għan-nar	Klassi A1	
Reżistenza kontra n-nar	għal W-FAZ ara l-Annessi C7 sa C8 għal W-FAZ-IG ara l-Anness C14	

Dokumentazzjoni Teknika Xierqa u/jew Dokumentazzjoni Teknika Speċifika:

Il-prestazzjoni tal-prodott identifikat hawn fuq hija konformi mal-prestazzjonijiet iddikjarati. Din id-dikjarazzjoni ta' prestazzjoni hi maħruġa skont ir-Regolament (UE) Nru 305/2011 taħt ir-responsabbiltà unika tal-manifattur identifikat hawn fuq.

Iffirmat għal u f'isem il-manifattur minn:

Frank Wolpert
(Rapp. Awtorizzat - Kap, Qasam tal-Suq)

Dr. –Ing. Siegfried Beichter
(Rapp. Awtorizzat - Kap, Ġestjoni tal-Kwalità)

Künzelsau, 22/02/2021

PRESTATIEVERKLARING

Nr. LE_0904520801_04_M_W-FAZ

Dit is een uit het Duits vertaalde versie.
In twijfelgevallen geldt het Duitse origineel.

1. Eenduidige identificatiecode van het producttype: Würth fixanker W-FAZ en W-FAZ-IG
   art.nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   met uitzondering van onderstaande artikelen: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Gebruiksdoel(en): Mechanische plug voor gebruik in beton
3. Fabrikant: Adolf Würth GmbH & Co. KG
   Reinhold- Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Systeem/systemen voor beoordeling en verificatie van de prestatiebestendigheid: Systeem 1
5. Europees beoordelingsdocument: EAD 330232-00-0601
   Europese technische beoordeling: ETA-99/0011 - 02/10/2018
   Technische beoordelingsinstantie: Deutsches Institut für Bautechnik (DIBt), Berlijn
   Aangemelde instantie(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Vastgestelde prestatie(s):

Belangrijkste eigenschappen	**Prestatie**	**Geharmoniseerde technische specificatie**
Mechanische sterkte en stabiliteit (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Karakteristieke weerstanden bij trekbelasting (statische en quasi-statische inwerkingen):	voor de W-FAZ zie bijlage C1 t/m C4 voor de W-FAZ-IG zie bijlage C11 en C12	
Karakteristieke weerstanden bij dwarsbelasting (statische en quasi-statische inwerkingen)	voor de W-FAZ zie bijlage C5 voor de W-FAZ-IG zie bijlage C13	
Verschuiving (statische en quasi-statische inwerkingen)	voor de W-FAZ zie bijlage C9 en C10 voor de W-FAZ-IG zie bijlage C15	
Karakteristieke weerstand en verschuiving voor seismische prestatiecategorie C1 en C2	voor de W-FAZ zie bijlage C6, C9 en C10	
Brandveiligheid (BWR 2)		
Brandgedrag	Klasse A1	
Brandweerstand	voor de W-FAZ zie bijlage C7 en C18 voor de W-FAZ-IG zie bijlage C14	

Passende technische documentatie en/of specifieke technische documentatie:

De prestatie van het bovenvermelde product voldoet aan de vastgestelde prestatie(s). Voor het opstellen van de prestatieverklaring overeenkomstig verordening (EU) nr. 305/2011 is uitsluitend de bovengenoemde fabrikant verantwoordelijk.

Ondertekend voor de fabrikant en in naam van de fabrikant door:

Frank Wolpert
(Procuratiehouder - Hoofd Marketing)

dr.-ing. Siegfried Beichter
(Procuratiehouder - Hoofd Kwaliteit)

Künzelsau, 22/02/2021

YTELSESERKLÆRING

Nr. LE_0904520801_04_M_W-FAZ

Dette er en versjon som er oversatt fra tysk.
Skulle det oppstå tvil, gjelder den tyske originalen

1. Entydig kode for produkttypen: Würth festeanker W-FAZ og W-FAZ-IG
   Art.-nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   unntatt artiklene under: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Bruksområde: Mekanisk plugg til bruk i betong
3. Produsent: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. System(er) til vurdering og kontroll av ytelsesbestandigheten: System 1
5. Europeisk vurderingsdokument: EAD 330232-00-0601,
   Europeisk teknisk godkjenning: ETA-99/0011 - 02.10.2018
   Teknisk godkjenningsorgan: Deutsches Institut für Bautechnik, Berlin
   Teknisk(e) kontrollorgan(er): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt, Tyskland
6. Erklært(e) ytelse(r):

Vesentlige egenskaper	**Ytelse**	**Harmonisert teknisk spesifikasjon**
Mekanisk fasthet og stabilitet (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Karakteristisk motstand ved strekkbelastning (statisk og nesten-statisk belastning)	for W-FAZ, se vedlegg C1 til C4 for W-FAZ-IG, se vedlegg C11 til C12	
Karakteristisk motstand ved tverrbelastning (statisk og nesten-statisk belastning)	for W-FAZ, se vedlegg C5 for W-FAZ-IG, se vedlegg C13	
Forskyvning (statisk og nesten-statisk belastning)	for W-FAZ, se vedlegg C9 til C10 for W-FAZ-IG, se vedlegg C15	
Karakteristisk motstand og forskyvning for seismisk kategori C1 og C2	for W-FAZ, se vedlegg C6, C9 og C10	
Brannvern (BWR 2)		
Egenskaper ved brann	Klasse A1	
Brannmotstand	for W-FAZ, se vedlegg C7 til C8 for W-FAZ-IG, se vedlegg C14	

Passende teknisk dokumentasjon og/eller spesifikk teknisk dokumentasjon:

Ytelsen til dette produktet tilsvarer den erklærte ytelsen / de erklærte ytelsene. Produsenten som er nevnt over, er eneansvarlig for at det lages en ytelseserklæring i henhold til forordningen (EU) nr. 305/2011.

Undertegnet for produsenten og på vegne av produsenten:

Frank Wolpert
(prokurist – leder området marked)

Dr. ing. Siegfried Beichter
(prokurist – leder kvalitet)

Künzelsau, den 22.02.2021

DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH

Nr LE_0904520801_04_M_W-FAZ

Ten dokument jest wersją przełożoną z języka niemieckiego.
W razie wątpliwości obowiązuje wersja niemiecka.

1. Niepowtarzalny kod identyfikacyjny typu produktu: Würth kotwa mocująca W-FAZ i W-FAZ-IG
   Nr artykułu: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   za wyjątkiem poniższych artykułów: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Przeznaczenie: mechaniczny kołek do zastosowania w betonie
3. Producent: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. System (systemy) oceny i weryfikacji stałości właściwości użytkowych: System 1
5. Europejski dokument oceny: EAD 330232-00-0601,
   Europejska Ocena Techniczna: ETA-99/0011 - 02.10.2018 r.
   Placówka sporządzająca ocenę techniczną: Deutsches Institut für Bautechnik (DIBt), Berlin
   Jednostka/-i notyfikowana/-e: 2873, Institut für Stahlbau und Werkstoffmechanik (Instytut konstrukcji stalowych i mechaniki tworzyw), Darmstadt
6. Deklarowane właściwości użytkowe:

Istotne cechy	**Właściwości użytkowe**	**Zharmonizowana specyfikacja techniczna**
Wytrzymałość mechaniczna i stateczność (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Opory właściwe przy naprężeniu rozciągającym (oddziaływania statyczne i quasi statyczne):	dla W-FAZ patrz załącznik C1 do C4 dla W-FAZ-IG patrz załącznik C11 do C12	
Opory właściwe przy naprężeniu poprzecznym (oddziaływania statyczne i quasi statyczne)	dla W-FAZ patrz załącznik C5 dla W-FAZ-IG patrz załącznik C13	
Przesunięcie (oddziaływania statyczne i quasi statyczne)	dla W-FAZ patrz załącznik C9 do C10 dla W-FAZ-IG patrz załącznik C15	
Opór właściwy i przesunięcie dla sejsmicznej kategorii właściwości C1 i C2	dla W-FAZ patrz załącznik C6, C9 i C10	
Ochrona przeciwpożarowa (BWR 2)		
Klasyfikacja ogniowa	Klasa A1	
Odporność ogniowa	dla W-FAZ patrz załącznik C7 do C8 dla W-FAZ-IG patrz załącznik C14	

Stosowna dokumentacja techniczna i/lub specjalna dokumentacja techniczna:

Właściwości użytkowe powyższego produktu pokrywają się z deklarowanymi właściwościami użytkowymi. Za sporządzenie deklaracji właściwości użytkowych zgodnie z rozporządzeniem (UE) nr 305/2011 odpowiedzialny jest wyłącznie wyżej wymieniony producent.

Podpisano za producenta i w jego imieniu:

Frank Wolpert
(Prokurent – Kierownik działu ds. rynku)

Dr inż. Siegfried Beichter
(Prokurent - Kierownik działu jakości)

Künzelsau, dnia 22.02.2021 r.

DECLARAÇÃO DE DESEMPENHO

N.º LE_0904520801_04_M_W-FAZ

Versão traduzida da versão alemã.
Em caso de dúvida, é válido o original em alemão

1. Código de identificação inequívoco do tipo de produto: Perno de ancoragem W-FAZ e W-FAZ-IG Würth
   N.° de art.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   à exceção dos artigos que se seguem: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Fim/fins de utilização: Bucha mecânica para utilização em betão
3. Fabricante: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Sistema(s) para avaliação e verificação da constância do desempenho: Sistema 1
5. Documento de avaliação europeu: EAD 330232-00-0601,
   Avaliação Técnica Europeia: ETA-99/0011 - 02.10.2018
   Organismo de Avaliação Técnica: Deutsches Institut für Bautechnik (DIBt), Berlim
   Organismo(s) notificado(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Desempenho(s) declarado(s):

Características essenciais	**Desempenho**	**Especificação técnica harmonizada**
Resistência mecânica e estabilidade (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Resistências características sob esforço de tração (cargas estáticas e quase-estáticas)	para o W-FAZ, veja o anexo C1 a C4 para o W-FAZ-IG, veja o anexo C11 a C12	
Resistências características sob esforço transversal (cargas estáticas e quase-estáticas)	para o W-FAZ, veja o anexo C5 para o W-FAZ-IG, veja o anexo C13	
Deslocamento (cargas estáticas e quase-estáticas)	para o W-FAZ, veja o anexo C9 a C10 para o W-FAZ-IG, veja o anexo C15	
Resistência característica e deslocamento para a categoria de desempenho sísmica C1 e C2	para o W-FAZ, veja o anexo C6, C9 e C10	
Proteção contra incêndio (BWR 2)		
Reação ao fogo	Classe A1	
Resistência ao fogo	para o W-FAZ, veja o anexo C7 a C8 para o W-FAZ-IG, veja o anexo C14	

Documentação técnica apropriada e/ou documentação técnica específica:

O desempenho do presente produto corresponde ao(s) desempenho(s) declarado(s). O fabricante acima mencionado é o único responsável pela elaboração da declaração de desempenho, em conformidade com o Regulamento (UE) n.° 305/2011.

Assinado pelo fabricante e em nome do fabricante de:

Frank Wolpert
(Procurador – Diretor do segmento do mercado)

Dr. Eng.° Siegfried Beichter
(Procurador - Diretor de qualidade)

Künzelsau, a 22.02.2021

DECLARAȚIE DE PERFORMANȚĂ

Nr. LE_0904520801_04_M_W-FAZ

Prezenta versiune este o traducere din limba germană.
În caz de dubiu, se aplică originalul în limba germană

1. Cod unic de identificare al tipului de produs: Ancoră de fixare Würth W-FAZ și W-FAZ-IG
   Nr. art.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   cu excepția articolelor următoare: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Scopul sau scopurile de utilizare: Diblu mecanic pentru utilizare în beton
3. Producător: Adolf Würth GmbH & Co. KG
   Reinhold- Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Sistem(e) pentru evaluarea și verificarea constanței performanței: Sistem 1
5. Document european de evaluare: EAD 330232-00-0601,
   Evaluare tehnică europeană: ETA-99/0011 - 02.10.2018
   Organism de evaluare tehnică: Deutsches Institut für Bautechnik (DIBt), Berlin
   Organism(e) notificat(e): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Institutul pentru construcții metalice și mecanica materialelor)
6. Performanța(e) declarată(e):

Caracteristici esențiale	**Performanță**	**Specificații tehnice armonizate:**
Rezistență mecanică și stabilitate (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Rezistențe caracteristice la solicitarea de tracțiune (efecte statice și cvazistatice)	pentru W-FAZ a se vedea Anexa C1 până la C4 pentru W-FAZ-IG a se vedea Anexa C11 până la C12	
Rezistențe caracteristice la solicitarea transversală (efecte statice și cvazistatice)	pentru W-FAZ a se vedea Anexa C5 pentru W-FAZ-IG a se vedea Anexa C13	
Deplasare (efecte statice și cvazistatice)	pentru W-FAZ a se vedea Anexa C9 până la C10 pentru W-FAZ-IG a se vedea Anexa C15	
Rezistența caracteristică și deplasarea pentru categoria de performanțe seismice C1 și C2	pentru W-FAZ a se vedea anexa C6, C9 și C10	
Protecție contra incendiilor (BWR 2)		
Comportament la incendiu	Clasa A1	
Rezistență la foc	pentru W-FAZ a se vedea Anexa C7 până la C8 pentru W-FAZ-IG a se vedea Anexa C14	

Documentația tehnică adecvată și / sau documentația tehnică specifică:

Performanța produsului prezentat este în conformitate cu performanța declarată / cu performanțele declarate. Pentru realizarea declarației de performanță în conformitate cu Ordonanța (UE) nr. 305/2011, singurul responsabil este producătorul menționat mai sus.

Semnată pentru și în numele producătorului, de către:

Frank Wolpert
(Reprezentant legal - director Marketing)

Dr.-Ing. Siegfried Beichter
(Reprezentant legal - director Calitate)

Künzelsau, 22.02.2021

ДЕКЛАРАЦИЯ ХАРАКТЕРИСТИК

№ LE_0904520801_04_M_W-FAZ

Здесь речь идет о переведенной с немецкого языка версии.
В случае сомнений руководствоваться немецким оригиналом

1. Однозначная маркировка типа продукта: Неподвижный анкер Würth W-FAZ и W-FAZ-IG
   Арт. №: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   исключая следующие артикулы: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Цель(и) применения: Механический дюбель для применения с бетоном
3. Изготовитель: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Система(ы) для оценки и проверки стабильности характеристик: Система 1
5. Европейский оценочный документ: EAD 330232-00-0601,
   Европейская техническая оценка: ETA-99/0011 - 02.10.2018
   Орган технической оценки: Германский институт строительных технологий (DIBt), Берлин
   Уполномоченный(е) орган(ы): 2873, Институт строительных конструкций и механики материалов (IFSW), Дармштадт
6. Заявленная(-ые) характеристика(-и):

Важные признаки	**Характеристика**	**Гармонизированная техническая спецификация**
Механическая прочность и устойчивость (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Типичные сопротивления при растяжении (статические и квазистатические нагрузки)	для W-FAZ см. Приложения с C1 по C4 для W-FAZ-IG см. Приложения с C11 по C12	
Типичные сопротивления при сдвигающих нагрузках (статические и квазистатические нагрузки)	для W-FAZ см. Приложение C5 для W-FAZ-IG см. Приложение C13	
Смещение (статические и квазистатические нагрузки)	для W-FAZ см. Приложения с C9 по C10 для W-FAZ-IG см. Приложение C15	
Типичное сопротивление и смещение для категорий сейсмических нагрузок C1 и C2	для W-FAZ см. Приложения C6, C9 и C10	
Противопожарная защита (BWR 2)		
Огнестойкость	Класс A1	
Огнестойкость	для W-FAZ см. Приложения с C7 по C8 для W-FAZ-IG см. Приложение C14	

Соразмерная техническая документация и/или специальная техническая документация:

Характеристика вышеприведенного продукта соответствует заявленной(-ым) характеристике/характеристикам. За составление декларации характеристик в соответствии с предписанием (EU) № 305/2011 отвечает исключительно вышеупомянутый изготовитель.

Подписано за изготовителя и от имени изготовителя:

Франк Вольперт
(Прокурист – Нач. отд. маркетинга)

Д-р-инж. Зигфрид Байхтер
(Прокурист - Нач. ОТК)

Кюнцельзау, 22.02.2021

PRESTANDADEKLARATION

Nr. LE_0904520801_04_M_W-FAZ

Denna version är översatt från tyska.
I tveksamma fall gäller originalet på tyska.

1. Produkttypens unika identifikationskod: Würth pinnskruvexpander W-FAZ och W-FAZ-IG
art.-nr.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
med undantag av följande artiklar: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Användningsändamål: Mekanisk plugg för användning i betong
3. Tillverkare: Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12 - 17
D – 74653 Künzelsau
4. System för bedömning och kontroll av prestandabeständighet: System 1
5. Europeiskt bedömningsdokument: EAD 330232-00-0601,
Europeisk teknisk bedömning: ETA-99/0011 - 2018-10-02
Tekniskt bedömningsorgan: Deutsches Institut für Bautechnik (DIBt), Berlin
Notificerade organ: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Deklarerad prestanda:

Väsentliga egenskaper	**Prestanda**	**Harmoniserad teknisk specifikation**
Mekanisk hållfasthet och stabilitet (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Karakteristiska motstånd vid dragpåkänning (statisk och kvasistatisk påverkan)	för W-FAZ, se Bilaga C1 till C4 för W-FAZ-IG, se Bilaga C11 till C12	
Karakteristiska motstånd vid tvärbelastning (statisk och kvasistatisk påverkan)	för W-FAZ, se Bilaga C5 för W-FAZ-IG, se Bilaga C13	
Förskjutning (statisk och kvasistatisk påverkan)	för W-FAZ, se Bilaga C9 till C10 för W-FAZ-IG, se Bilaga C15	
Karakteristiskt motstånd och förskjutning för seismisk prestandakategori C1 och C2	för W-FAZ, se Bilaga C6, C9 och C10	
Brandskydd (BWR 2)		
Branduppförande	Klass A1	
Brandmotstånd	för W-FAZ, se Bilaga C7 till C8 för W-FAZ-IG, se Bilaga C14	

Tillämplig teknisk dokumentation och/eller specifik teknisk dokumentation:

Ovanstående produkts prestanda överensstämmer med den prestanda som anges. Denna prestandadeklaration utfärdas i överensstämmelse med förordning (EU) nr. 305/2011 på eget ansvar av ovanstående tillverkare.

Undertecknad för tillverkaren och på tillverkarens vägnar av:

Frank Wolpert
(Prokurist – Chef Område marknad)

Dr.-ing. Siegfried Beichter
(Prokurist - Chef Kvalitet)

Künzelsau, 2021-02-22

VYHLÁSENIE O VLASTNOSTIACH

Č. LE_0904520801_04_M_W-FAZ

Jedná sa tu o preloženú nemeckú verziu.
V prípade pochybností platí nemecký originál

1. Jednoznačný identifikačný kód typu výrobku: Würth fixačná kotva W-FAZ a W-FAZ-IG
   Výr. č.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   okrem nižšie uvedených výrobkov: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Účel(y) použitia: Mechanická hmoždinka na použitie v betóne
3. Výrobca: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Systém (systémy) na posudzovanie a overovanie odolnosti parametrov: Systém 1
5. Európsky vyhodnocovací dokument: EAD 330232-00-0601,
   Európske technické vyhodnotenie: ETA-99/0011 - 02.10.2018
   Pracovisko pre technické vyhodnotenie: Deutsches Institut für Bautechnik (Nemecký inštitút pre stavebnú techniku) (DIBt), Berlín
   Notifikovaný orgán(y): 2873, Ústav pre oceľové konštrukcie a mechaniku materiálov (IFSW), Darmstadt
6. Vlastnosť(i) uvedené vo vyhlásení:

Podstatné znaky	**Vlastnosť**	**Harmonizovaná technická špecifikácia**
Mechanická pevnosť a stabilita (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Charakteristické odolnosti pri namáhaní ťahom (statické a kvázistatické záťaže)	pre W-FAZ pozri dodatok C1 až C4 pre W-FAZ-IG pozri dodatok C11 až C12	
Charakteristické odolnosti pri priečnom namáhaní (statické a kvázi-statické účinky)	pre W-FAZ pozri dodatok C5 pre W-FAZ-IG pozri dodatok C13	
Posun (statické a kvázi-statické účinky)	pre W-FAZ pozri dodatok C9 až C10 pre W-FAZ-IG pozri dodatok C15	
Charakteristická odolnosť a posun pre seizmickú kategóriu výkonu C1 a C2	pre W-FAZ pozri dodatok C6, C9 a C10	
Protipožiarna ochrana (BWR 2)		
Reakcia látky pri požiari	Trieda A1	
Požiarna odolnosť	pre W-FAZ pozri dodatok C7 až C8 pre W-FAZ-IG pozri dodatok C14	

Primeraná technická dokumentácia a/alebo špecifická technická dokumentácia:

Vlastnosť vyššie uvedeného produktu zodpovedá vyhlásenej vlastnosti / vyhláseným vlastnostiam. Na vyhotovenie vyhlásenia o parametroch v súlade s nariadením (EÚ) č. 305/2011 je zodpovedný sám vyššie uvedený výrobca.

Podpísané pre výrobcu a v mene výrobcu:

Frank Wolpert
(Prokurista - vedúci oblasti trhu)

Dr. –Ing. Siegfried Beichter
(Prokurista - vedúci kvality)

Künzelsau, dňa 22.02.2021

IZJAVA O LASTNOSTIH

Št. LE_0904520801_04_M_W-FAZ

To besedilo je prevod iz nemščine.
V primeru dvoma velja nemški izvirnik

1. Enotna identifikacijska oznaka tipa izdelka: Pritrdilna sidra W-FAZ in W-FAZ-IG
   Št. art.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   Izključeni so naslednji artikli: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Nameni uporabe: Mehanski vložki za uporabo v betonu
3. Proizvajalec: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau, Nemčija
4. Sistemi za vrednotenje in preverjanje trajnosti lastnosti: Sistem 1
5. Evropski ocenjevalni dokument: EAD 330232-00-0601,
   Evropsko tehnično vrednotenje: ETA-99/0011 – 2. 10. 2018
   Organ, ki je opravil tehnično vrednotenje: Deutsches Institut für Bautechnik (DIBt), Berlin
   Obveščeni organ: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Navedene lastnosti:

Bistvene značilnosti	**Lastnost**	**Harmonizirana tehnična specifikacija**
Mehanska trdnost in stabilnost (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Značilne odpornosti pri potezni obremenitvi (statični in kvazistatični učinki)	za W-FAZ glejte Priloge od C1 do C4 za W-FAZ-IG glejte Prilogi C11 in C12	
Značilne odpornosti pri prečni obremenitvi (statični in kvazistatični učinki)	za W-FAZ glejte Prilogo C5 za W-FAZ-IG, glejte Prilogo C13	
Premiki (statični in kvazistatični učinki)	za W-FAZ glejte prilogi C9 in C10 za W-FAZ-IG glejte prilogo C15	
Značilna odpornost in premik pri seizmičnih obremenitvah, kategoriji zmogljivosti C1 in C2	za W-FAZ glejte Priloge C6, C9 in C10	
Protipožarna zaščita (BWR 2)		
Požarne lastnosti	Razred A1	
Požarna odpornost	za W-FAZ glejte prilogi C7 in C8 za W-FAZ-IG glejte prilogo C14	

Ustrezna tehnična dokumentacija in/ali posebna tehnična dokumentacija:

Lastnosti tega izdelka ustrezajo navedenim lastnostim. Za pripravo izjave o lastnostih po uredbi (EU) št. 305/2011 je odgovoren izključno zgoraj navedeni proizvajalec.

Podpis za proizvajalca in v njegovem imenu:

Frank Wolpert
(prokurist – vodja oddelka za trženje)

Dr. –Ing. Siegfried Beichter
(prokurist – vodja za kakovost)

Künzelsau, 22. 2. 2021

PERFORMANS BEYANI

No. LE_0904520801_04_M_W-FAZ

Bu metin, Almanca dilinden yapılmış bir çeviridir.
Şüpheli durumlarda Almanca orijinal metin geçerli olacaktır

1. Ürün tipinin açık kodu: Würth sabitleme vidası W-FAZ ve W-FAZ-IG
   Ürün No.: 090452*; 090453*; 09046*; 090470*; 090471*; 090480*; 090481*; 5928*
   Aşağıdaki ürünler hariçtir: 0904710001; 0904710002; 0904710003; 09046; 090460; 090480; 09048040
2. Kullanma amacı (amaçları): Betonda kullanmak için mekanik dübel
3. Üretici: Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12 - 17
   D – 74653 Künzelsau
4. Performansın sürdürülebilirliğinin değerlendirilmesi ve kontrolü için sistem(ler): Sistem 1
5. Avrupa Değerlendirme Belgesi: EAD 330232-00-0601,
   Avrupa Teknik Değerlendirmesi: ETA-99/0011 - 02.10.2018
   Teknik Değerlendirme Kuruluşu: Deutsches Institut für Bautechnik (DIBt), Berlin
   Akredite kuruluş(lar): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Beyan edilen performans(lar):

Önemli özellikler	**Performans**	**Uyumlandırılmış teknik nitelik**
Mekanik dayanıklılık ve kararlılık (BWR 1)		ETA-99/0011 EAD 330232-00-0601
Çekme yükü altındaki karakteristik dirençler (statik ve sözde statik etkiler)	W-FAZ için bkz. Ek C1 ila C4 W-FAZ-IG için bkz. Ek C11 ila C12	
Enine çekme yükü altındaki karakteristik dirençler (statik ve sözde statik etkiler)	W-FAZ için bkz. Ek C5 W-FAZ-IG için bkz. Ek C13	
Kaydırma (statik ve sözde statik etkiler)	W-FAZ için bkz. Ek C9 ila C10 W-FAZ-IG için bkz. Ek C15	
Sismik performans kategorisi C1 ve C2 için karakteristik direnç ve kaydırma	W-FAZ için bkz. C6, C9 ve C10	
Yangından koruma (BWR 2)		
Yangındaki tutum	Sınıf A1	
Yangına dayanıklılık	W-FAZ için bkz. Ek C7 ila C8 W-FAZ-IG için bkz. Ek C14	

Uygun teknik dokümantasyon ve/veya spesifik teknik dokümantasyon:

Mevcut ürünün performansı, beyan edilen performansa/beyan edilen performanslara uygundur. Performans beyanının 305/2011 numaralı yönetmelikle (AB) uyumlu olarak oluşturulmasından üretici tek başına sorumludur.

Üretici için ve üretici adına imzalayan:

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Künzelsau, 22.02.2021