

**DECLARATION OF PERFORMANCE**  
**NR. LE\_5915508085\_01\_M\_W-VPZ**

**LANGUAGE VERSIONS :**

Language	Site
EN	2
ETA-21/0168 (EN)	4
BG	26
CZ	28
DA	30
DE	32
ES	34
ET	36
FI	38
FR	40
GA	42
GR	44
HR	46
HU	48
IT	50
LT	52
LV	54
MT	56
NL	58
NO	60
PL	62
PT	64
RO	66
RU	68
SK	70
SL	72
SV	74
TR	76

## DECLARATION OF PERFORMANCE

**No. 5915508085\_01\_M\_W-VPZ**

- |  |   |
|--|---|
| 1. Unique identification code of the product type:   | Würth W-VPZ capsule adhesive anchor<br>Art. no.: 5915508085; 5915510090; 5915512095; 5915516095;<br>5915520145; 5915524*; 59151*; 59152*; 59153*; 59154*;<br>5916408110; 5916410130; 5916412160; 5916416190;<br>5915806090; 5915808110; 5915810125; 5915812170; 5915816*;<br>5915906090; 5915908110; 5915910125; 5915912170; 5915916* |
| 2. Intended use(s):  | Bonded anchor for anchoring in concrete   |
| 3. Manufactured by:  | Adolf Würth GmbH & Co. KG,<br>Reinhold-Würth-Straße 12-17<br>D-74653 Künzelsau  |
| 4. System(s) for the assessment and verification of constancy of performance:  | System 1  |
| 5. European Assessment Document:<br>European Technical Assessment:<br>Technical Assessment Body:<br>Notified Body or Bodies: | EAD 330499-01-0601, Edition 4/2020<br>ETA-21/0168 - 21.07.2023<br>Deutsches Institut für Bautechnik (DIBt), Berlin<br>2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt   |
| 6. Declared performance(s):  |   |

Essential characteristics	Performance	Harmonized technical specification
<b>Mechanical resistance and stability (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Characteristic resistance for tension resistance (static and quasi-static actions):	Annex B2, B3, C1, C2, and C5	
Characteristic tension shear resistance (static and quasi-static actions):	Annex C1, C3, C6	
Displacements for short term and long term loading	Annex C7	
Characteristic resistance for seismic design category C1	Annex C4	
Characteristic resistance and displacements for seismic design category C2	Performance not rated	
<b>Hygiene, health and environment (BWR 3)</b>		
Contents, emission and/or release of hazardous substances	Performance not rated	

The performance of the aforementioned product corresponds to the declared performance(s). The declaration of performance is issued in compliance with EU Regulation 305/2011 under the sole responsibility of the above manufacturer.

Signed for and on behalf of the manufacturer by:

---

Dipl.-Ing. Andreas Heck  
(Head of Fastening Technology)

---

Dr. -Ing. Siegfried Beichter  
(Authorized Signatory - Product Safety)

Künzelsau, Germany, 1 July 2024

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

ETA-21/0168  
of 21 July 2023

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

Capsule Adhesive Anchor W-VPZ

Product family  
to which the construction product belongs

Bonded anchor for use in concrete

Manufacturer

Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Straße 12-17  
74653 Künzelsau  
DEUTSCHLAND

Manufacturing plant

Werk 1

This European Technical Assessment  
contains

22 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

330499-01-0601, Edition 04/2020

This version replaces

ETA-21/0168 issued on 1 June 2021

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

## Specific Part

### 1 Technical description of the product

The "Chemical Anchor W-VPZ" is a bonded fastener consisting of a resin anchor capsule W-VPZ and an anchor rod W-VD-A or an internally threaded anchor rod W-VP-IG.

The resin anchor capsule W-VPZ is placed in the hole and the anchor rod W-VD-A or the internally threaded anchor rod W-VP-IG is driven by machine as specified in Annex B6 and B7.

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)	See Annex B2, B3, C1, C2 and C5
Characteristic resistance to shear load (static and quasi-static loading)	See Annex C1, C3, C6
Displacements under short-term and long-term loading	See Annex C7
Characteristic resistance for seismic performance category C1	See Annex C4
Characteristic resistance and displacements for seismic performance category C2	No performance assessed

#### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	No performance assessed

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

In accordance with the European Assessment Document EAD 330499-01-0601 the applicable European legal act is: [96/582/EC].

The system to be applied is: 1

**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable European Assessment Document**

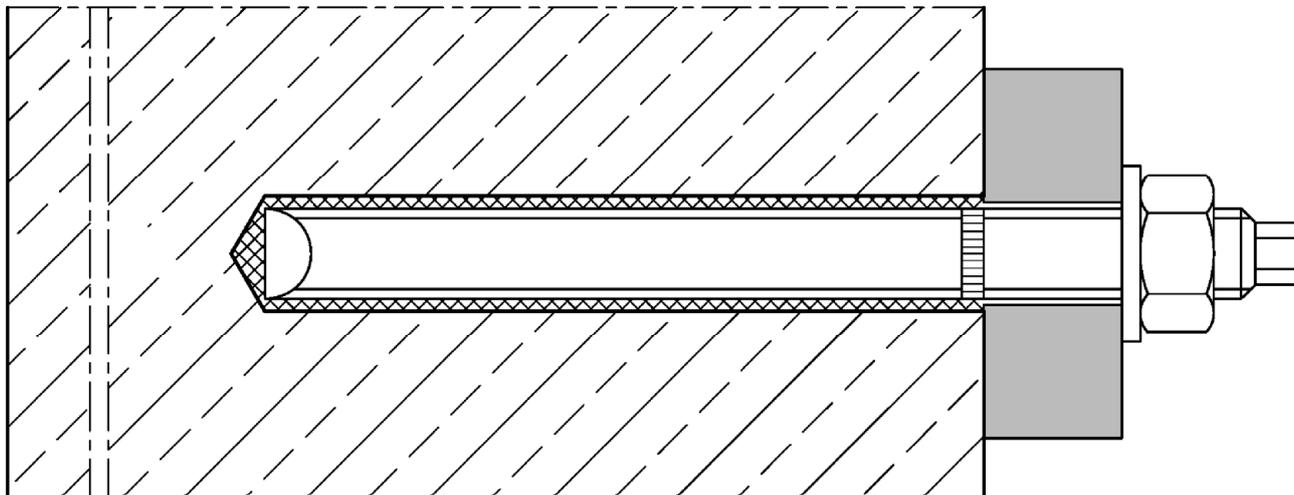
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 21 July 2023 by Deutsches Institut für Bautechnik

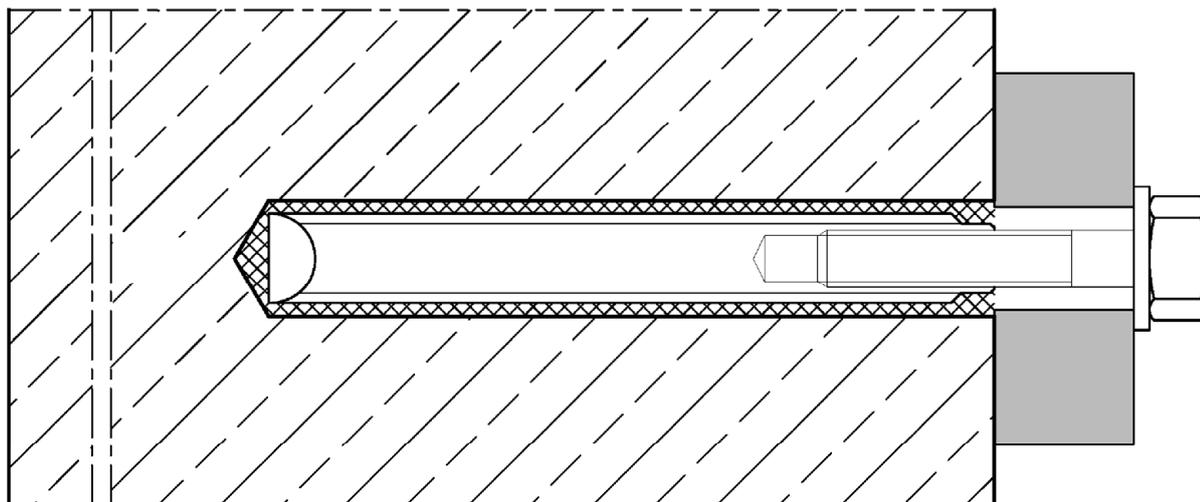
Dipl.-Ing. Beatrix Wittstock  
Head of Section

*beglaubigt:*  
Baderschneider

**Installation situation Chemical Anchor W-VPZ with anchor rod W-VD-A**  
(optional annular gap filled with mortar)



**Installation situation Chemical Anchor W-VPZ with Internally threaded anchor rod W-VP-IG <sup>1)</sup>** (optional annular gap filled with mortar)

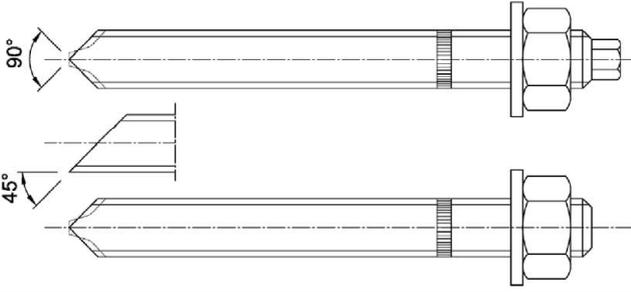
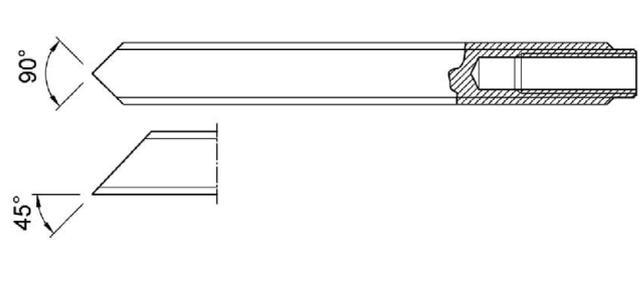
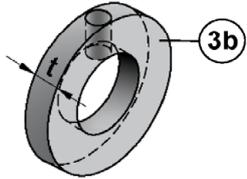


<sup>1)</sup> Illustration exemplary with hexagon head screw; fastening also possible with other screws or with threaded rods.

**Chemical Anchor W-VPZ**

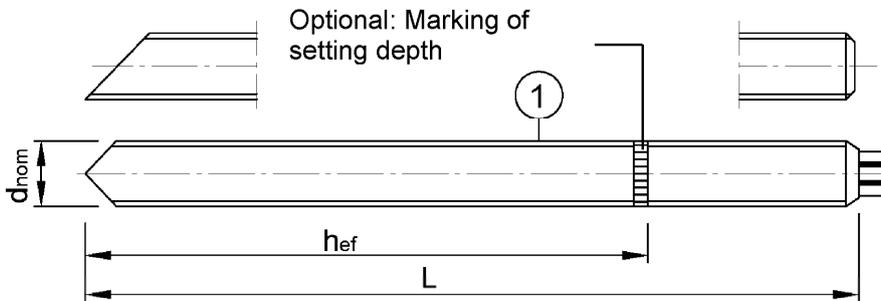
**Product description**  
Installation situation

**Annex A1**

<b>Resin Anchor Capsule W-VPZ</b>	
	
<b>Anchor rod W-VD-A</b>	<b>Internally threaded anchor rod W-VP-IG</b>
	
<b>Supplies</b>	
<b>Filling washer WIT-SHB and reducing adapter for filling gap between anchor rod and fixture</b>	
	<p>Thickness of filling washer for diameter</p> <p>M8 to M20: t = 5 mm</p> <p>M24: t = 6 mm</p> 
<b>Cleaning supplies</b>	
<b>M8 – M24</b>	<p><b>Vacuum drill bit</b></p>  <p>Vacuum drill bit (Würth extraction drill bit, MKT Hollow drill bit SB or Heller Duster Expert) and a class M vacuum cleaner with minimum negative pressure of 253 hPa and a flow rate of minimum 42 l/s</p>
or	
<b>M8 – M24</b>	<p><b>Compressed air tool (min 6 bar)</b></p> 
<b>M8 – M20</b>	<p><b>Blow-out pump (volume 750 ml)</b></p> 
	<p><b>Cleaning Brush WIT-RMB</b></p> 
<b>Chemical Anchor W-VPZ</b>	
<b>Product description</b> Resin Anchor Capsule, anchor rods and supplies	
<b>Annex A2</b>	

### Anchor rod W-VD-A

M8, M10, M12, M16, M20, M24



Marking: e.g.: M10

identifying mark of manufacturing plant

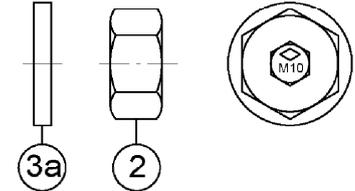
M10 anchor size

additional marking:

-8 property class 8.8

A4 stainless steel

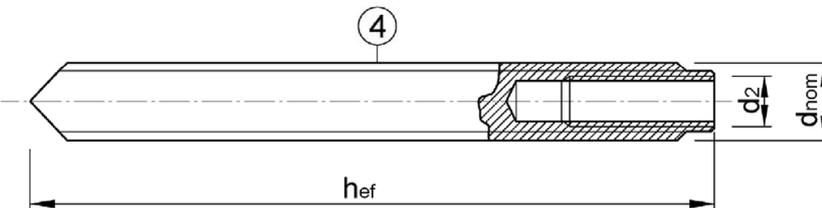
HC high corrosion resistant steel



Anchor rod W-VD-A		M8	M10	M12	M16	M20	M24
Outer diameter	$d=d_{nom}$ [mm]	8	10	12	16	20	24
Length	$L \geq$ [mm]	90	101	125	145	192	235
Effective anchorage depth	$h_{ef}$ [mm]	80	90	110	125	170	210
Hexagon nut	wrench size [mm]	13	17	19	24	30	36

### Internally threaded anchor rod W-VP-IG

IG M6, IG M8, IG M10, IG M12, IG M16



Marking e.g.: M8

identifying mark of manufacturing plant

M8 size of internal thread

additional marking:

-8 property class 8.8

A4 stainless steel

HCR high corrosion resistant steel

Internally threaded anchor rod W-VP-IG		IG-M 6	IG-M 8	IG-M 10	IG-M 12	IG-M 16
Outer diameter of threaded rod <sup>1)</sup>	$d=d_{nom}$ [mm]	10	12	16	20	24
Inner diameter of threaded rod	$d_2$ [mm]	6	8	10	12	16
Minimum screw in-depth	$l_{IG}$ [mm]	8	8	10	12	16
Effective anchorage depth	$h_{ef}$ [mm]	90	110	125	170	210

<sup>1)</sup> With metric thread acc. to EN 1993-1-8:2005+AC:2009

### Requirements for screws or threaded rods (incl. nut and washer):

These must at least correspond to the material and strength class of the internally threaded anchor rod used.

### Material:

- **Steel, zinc plated:** Minimum property class 5.8 or 8.8 according to EN ISO 898-1:2013 or EN ISO 898-2:2022
- **Stainless steel A4 or high corrosion resistant steel (HCR):** Minimum property class 70 according to EN ISO 3506-1:2020 oder EN ISO 3506-2:2020

### Chemical Anchor W-VPZ

Product description  
Marking

Annex A3

**Table A1: Materials**

Part	Designation	Materials					
<b>Steel, zinc plated</b>							
electroplated $\geq 5 \mu\text{m}$							
hot-dip galvanized $\geq 50 \mu\text{m}$ (average coating thickness)							
sherardized $\geq 45 \mu\text{m}$							
1	Anchor rod	Property class	characteristic ultimate strength		characteristic yield strength		fracture elongation
		5.8	$f_{uk}$ [N/mm <sup>2</sup> ]	500	$f_{yk}$ [N/mm <sup>2</sup> ]	400	
		8.8		800		640	$A_5 > 12 \%$
2	Hexagon nut	5	for class 5.8 anchor rods				
		8	for class 5.8, 8.8 anchor rods				
3a	Washer	steel, zinc plated					
3b	Filling washer	steel, zinc plated					
4	Internally threaded anchor rod	5.8	steel, electroplated or sherardized			$A_5 > 8 \%$	
		8.8				$A_5 > 8 \%$	
<b>Stainless steel A4</b> CRC III acc. to EN 1993-1-4:2006+A1:2015							
<b>High corrosion resistant steel HCR</b> CRC V acc. to EN 1993-1-4:2006+A1:2015							
acc. to EN 10088:2014							
1	Anchor rod	Property class	characteristic ultimate strength		characteristic steel yield strength		fracture elongation
		70	$f_{uk}$ [N/mm <sup>2</sup> ]	700	$f_{yk}$ [N/mm <sup>2</sup> ]	560	
		80		800		600	$A_5 > 12 \%$
2	Hexagon nut	70	for class 70 anchor rods				
		80	for class 70, 80 anchor rods				
3a	Washer	stainless steel A4; high corrosion resistant steel HCR					
3b	Filling washer	stainless steel A4; high corrosion resistant steel HCR					
4	Internally threaded anchor rod	70	stainless steel A4; high corrosion resistant steel HCR			$A_5 > 8 \%$	
<b>Glass capsule</b>							
5	Resin Anchor Capsule	glass, quartz, resin, hardener					

**Chemical Anchor W-VPZ**

**Product description**  
Material

**Annex A4**

## Specifications of intended use

Chemical Anchor W-VPZ with	Anchor rod W-VD-A	Internally threaded anchor rod W-VP-IG
Static or quasi-static action	M8 to M24	IG-M6 to IG-M16
Seismic action, performance category C1	M8 to M24	no performance assessed
Base materials	compacted, reinforced or unreinforced normal weight concrete without fibers acc. to EN 206:2013+A1:2016	
	strength classes C20/25 to C50/60, acc. to EN 206:2013+A1:2016	
	cracked or uncracked concrete	
Temperature range I -40°C to +40°C	max long-term temperature +24°C; max short-term temperature +40°C	
Temperature range II -40°C to +80°C	max long-term temperature +50°C; max short-term temperature +80°C	

### Use conditions (Environmental conditions):

- Structures subject to dry internal conditions: all versions
- For all other conditions corresponding to corrosion resistance classes CRC according to EN 1993-1-4:2015, Annex A, Table A1:
  - W-VD-A/A4: CRC III
  - W-VD-A/HCR: CRC V

### Design:

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

### Installation:

- Dry or wet concrete
- Making of drill hole by hammer drilling, compressed air drilling or vacuum drilling
- Installation direction: D3 - downwards, horizontally and upwards (e.g. overhead) installation
- Optionally, the annular gap between anchor rod and attachment can be backfilled. In this case, the washer is replaced by the filling washer (Part 3b, Annex A2). Würth injection mortars WIT-UH 300, WIT-VM 250, WIT-VIZ, WIT-VIZ EXPRESS or other high-strength injection mortars with a compressive strength  $\geq 40\text{N/mm}^2$  can be used for backfilling.
- Internally threaded anchor rods: Bolts or threaded rod (incl. nut and washer) must at least correspond to the material and strength class of the internally threaded anchor rod that is used.

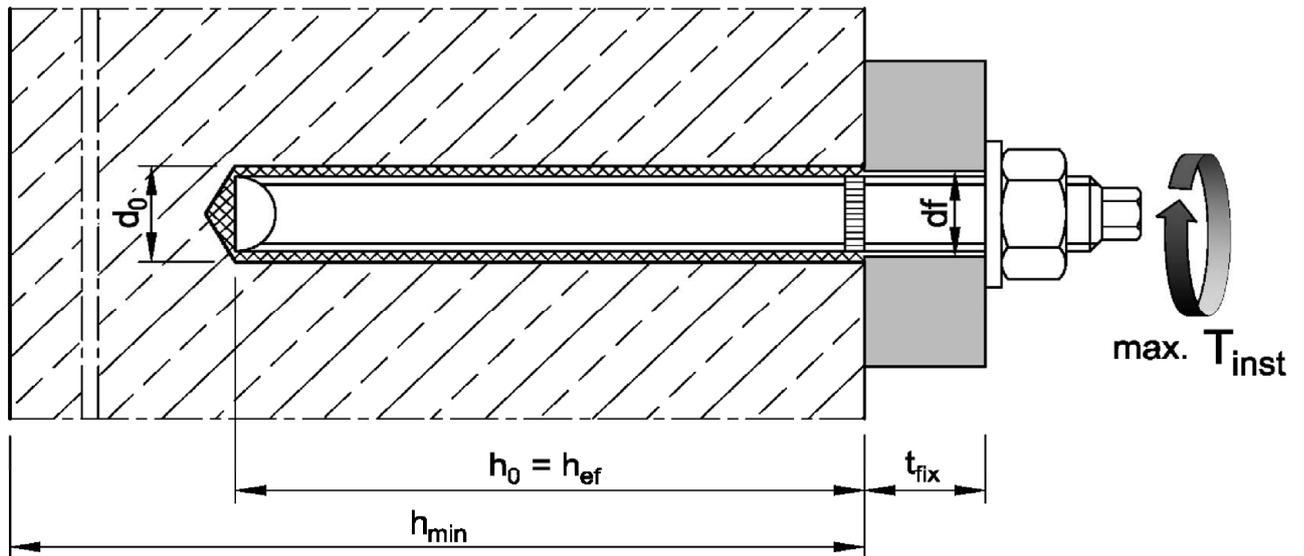
**Chemical Anchor W-VPZ**

**Intended Use  
Specifications**

**Annex B1**

**Table B1: Installation parameters for anchor rods W-VD-A**

Anchor rod W-VD-A		M8	M10	M12	M16	M20	M24
Resin Anchor Capsule		W-VPZ 8	W-VPZ 10	W-VPZ 12	W-VPZ 16	W-VPZ 20	W-VPZ 24
Diameter of threaded rod	$d=d_{nom}$ [mm]	8	10	12	16	20	24
Nominal diameter of drill hole	$d_0$ [mm]	10	12	14	18	22	28
Depth of drill hole	$h_0$ [mm]	80	90	110	125	170	210
Effective anchorage depth	$h_{ef}$ [mm]	80	90	110	125	170	210
Diameter of clearance hole in the fixture	$d_f$ [mm]	9	12	14	18	22	26
Cleaning Brush WIT-	[-]	RMB 10	RMB 12	RMB 14	RMB 18	RMB 22	RMB 28
Diameter of Cleaning Brush	$d_b \geq$ [mm]	10,5	12,5	14,5	18,5	22,5	28,5
Maximum installation torque	$\max T_{inst}$ [Nm]	10	20	40	80	150	200
Minimum member thickness	$h_{min}$ [mm]	110	120	140	160	220	270
Minimum edge distance	$c_{min}$ [mm]	40	45	45	50	55	60
Minimum spacing	$s_{min}$ [mm]	40	50	60	75	90	115



**Chemical Anchor W-VPZ**

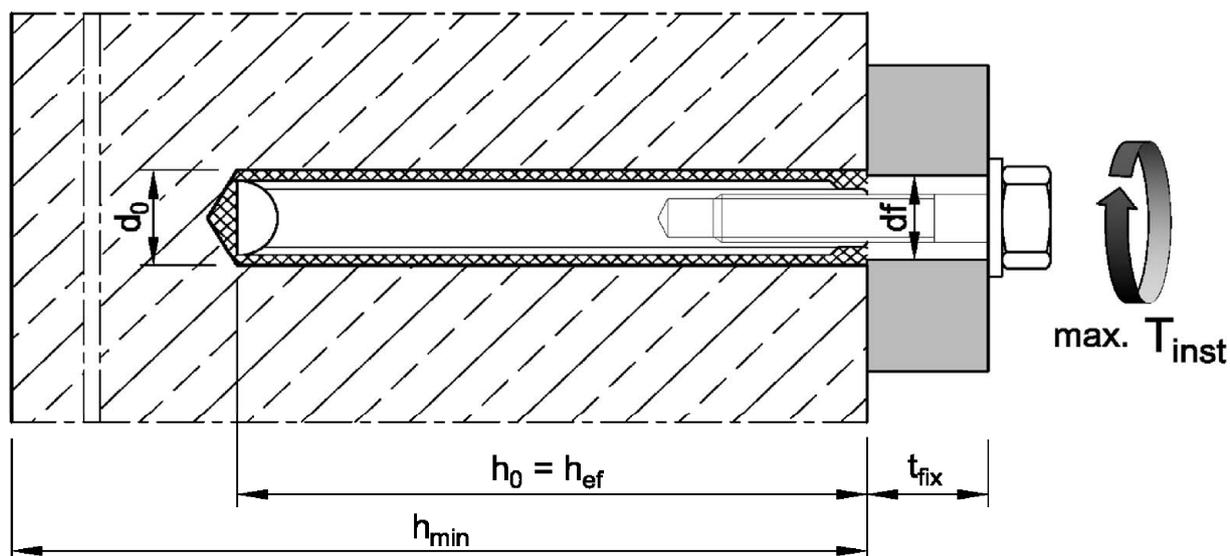
**Intended Use**  
Installation parameters – Anchor rod W-VD-A

**Annex B2**

**Table B2: Installation parameters for internally threaded anchor rods W-VP-IG**

Internally threaded anchor rod W-VP-IG			IG-M 6	IG-M 8	IG-M 10	IG-M 12	IG-M 16
<b>Resin Anchor Capsule</b>			W-VPZ 10	W-VPZ 12	W-VPZ 16	W-VPZ 20	W-VPZ 24
Outer diameter of threaded rod <sup>1)</sup>	$d=d_{nom}$	[mm]	10	12	16	20	24
Inner diameter of threaded rod	$d_2$	[mm]	6	8	10	12	16
Nominal drill hole diameter	$d_0$	[mm]	12	14	18	22	28
Depth of drill hole	$h_0$	[mm]	90	110	125	170	210
Effective anchorage depth	$h_{ef}$	[mm]	90	110	125	170	210
Diameter of clearance hole in the fixture	$d_f$	[mm]	7	9	12	14	18
Cleaning Brush WIT-		[-]	RMB 12	RMB 14	RMB 18	RMB 22	RMB 28
Diameter of Cleaning Brush	$d_b \geq$	[mm]	12,5	14,5	18,5	22,5	28,5
Maximum installation torque	$\max T_{inst}$	[Nm]	10	10	20	40	60
Minimum member thickness	$h_{min}$	[mm]	120	140	160	220	270
Minimum edge distance	$c_{min}$	[mm]	45	45	50	55	60
Minimum spacing	$s_{min}$	[mm]	50	60	75	90	115

<sup>1)</sup> With metric thread acc. to EN 1993-1-8:2005+AC:2009



**Chemical Anchor W-VPZ**

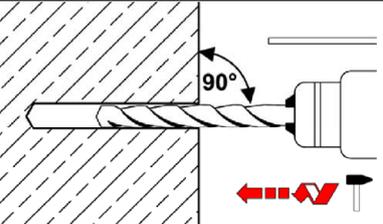
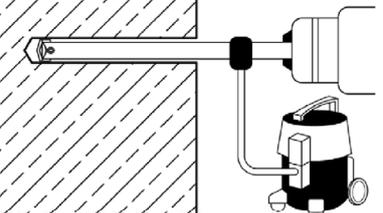
**Intended Use**  
Installation parameters – Internally threaded anchor rod W-VP-IG

**Annex B3**

**Table B3: Curing time**

Concrete temperature	Minimum curing time
-20°C to -16°C	17 h
-15°C to -11°C	7 h
-10°C to -6°C	4 h
-5°C to -1°C	3 h
0°C to +4°C	50 min
+5°C to +9°C	25 min
+10°C to +19°C	15 min
+20°C to +29°C	6 min
+30°C to +40°C	6 min
<b>Capsule temperature</b>	<b>-15°C to +40°C</b>

**Installation instructions**

Drilling	
1	 <p><b>Hammer drill or compressed air drill:</b> Drill the hole with diameter and depth according to Table B1 and B2. Continue with <u>step 2</u>.</p>
	 <p><b>Vacuum drill:</b> see Annex A2 Drill the hole with diameter and depth according to Table B1 and B2. Additional cleaning is not necessary - continue with <u>step 3</u>.</p>

**Chemical Anchor W-VPZ**

**Intended Use**  
Curing time / Installation instruction - drilling

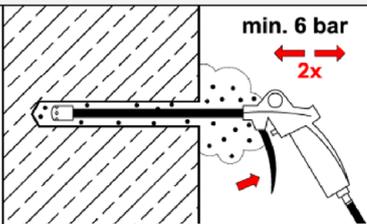
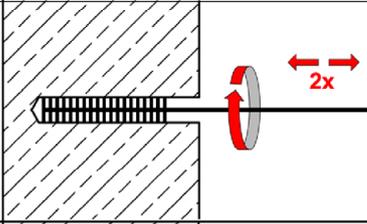
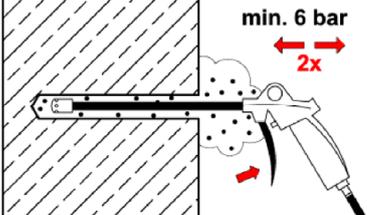
**Annex B4**

## Installation instructions – continuation

**Cleaning** - Drill hole must be cleaned directly before installation of the anchor, or it must be protected against recontamination in a suitable manner until installation of the anchor.

### Cleaning with compressed air

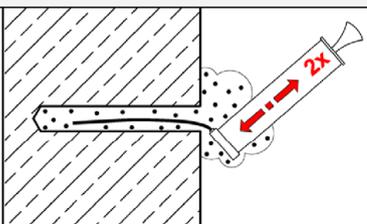
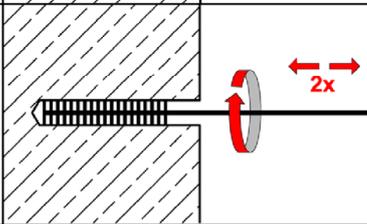
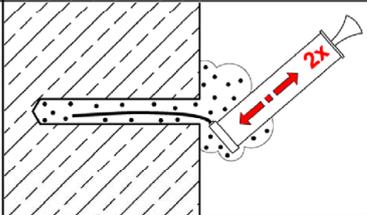
Sizes M8 to M24

2a		<p>Blow out the drill hole completely at least <b>2x</b> from the bottom of the drill hole with compressed air.</p>
2b		<p>Brush the drill hole <b>2x</b> with Cleaning Brush WIT-RMB (Table B1 or B2). Observe and check brush diameter <math>d_{b,min}</math>. When inserting the brush into the drill hole, a clear resistance must be noticeable. Otherwise use a new Cleaning Brush.</p>
2c		<p>Blow out the drill hole completely at least <b>2x</b> from the bottom of the drill hole with compressed air.</p>

2

### Manual cleaning

Sizes M8 to M20

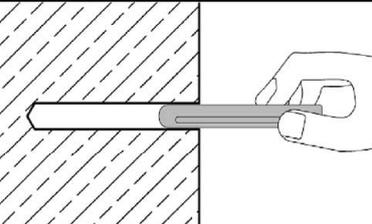
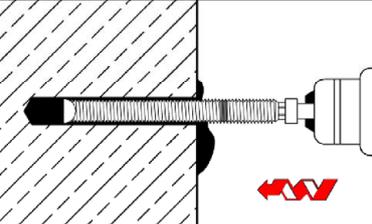
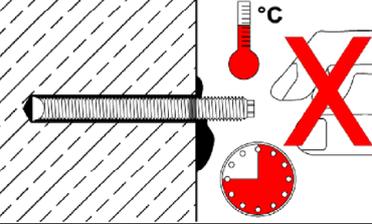
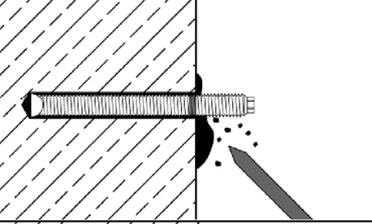
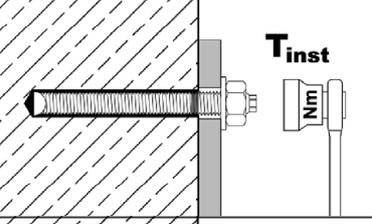
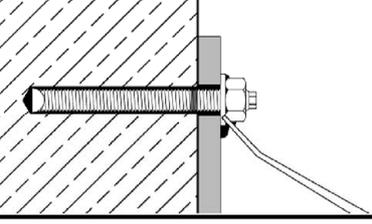
2a		<p>Blow out the drill hole completely at least <b>2x</b> from the bottom of the drill hole with blow-out pump.</p>
2b		<p>Brush the drill hole <b>2x</b> with Cleaning Brush WIT-RMB (Table B1 or B2). Observe and check brush diameter <math>d_{b,min}</math>. When inserting the brush into the drill hole, a clear resistance must be noticeable. Otherwise use a new Cleaning Brush.</p>
2c		<p>Blow out the drill hole completely at least <b>2x</b> from the bottom of the drill hole with blow-out pump.</p>

**Chemical Anchor W-VPZ**

**Intended Use**  
Installation instructions - Cleaning

**Annex B5**

## Installation instructions - continuation

Inserting the anchor rod W-VD-A		
3		<p>Check the depth of drill hole. If necessary, mark anchoring depth on the anchor rods.</p> <p>Insert the capsule into the drill hole.</p>
4		<p>Drive in the anchor rod using a hammer drill set on rotary impact. Stop immediately after reaching the setting depth.</p>
5		<p>Observe curing time according to Table B3. Do not move or load the anchor until it is fully cured.</p>
6		<p>Remove excess adhesive.</p>
7		<p>Install fixture and apply installation torque <math>T_{inst}</math> according to Table B1.</p>
8		<p>The annular gap between anchor rod and fixture may optionally be filled with mortar (see Annex B1). Therefore, replace regular washer by filling washer (note thickness of the filling washer) and plug on reducing adapter on static mixer.</p> <p>Annular gap is completely filled, when excess mortar seeps out.</p>

### Chemical Anchor W-VPZ

**Intended Use**  
Installation instructions – Inserting anchor rod W-VD-A

**Annex B6**

## Installation instructions - continuation

Inserting the internally threaded anchor rod W-VP-IG		
3		<p>Check the depth of drill hole.</p> <p>Insert the capsule into the drill hole.</p>
4		<p>Screw the setting tool into the internally threaded anchor rod W-VP-IG until stop. Drive in the internally threaded anchor rod with a hammer drill set to rotary impact. Switch off the hammer drill immediately after reaching the setting depth.</p>
5		<p>Observe curing time according to Table B3. Do not move or load the anchor and don't remove the setting tool until it is fully cured.</p>
6		<p>Remove excess adhesive and unscrew the setting tool.</p>
7		<p>The fixture can be mounted with threaded rod, nut and washer or screw. Apply the installation torque <math>T_{inst}</math> according to Table B2.</p>
8		<p>The annular gap between threaded rod or screw and fixture may optionally be filled with mortar (see Annex B1). Therefore, replace regular washer by filling washer or assemble it on the screw (observe thickness of filling washer and minimum screw-in depth). Plug on reducing adapter on static mixer and fill annular gap. It is completely filled, when excess mortar seeps out.</p>

### Chemical Anchor W-VPZ

#### Intended Use

Installation instructions – Inserting internally threaded anchor rod W-VP-IG

Annex B7

**Table C1: Characteristic steel resistance under tension load for anchor rods W-VD-A**

Anchor rod W-VD-A				M8	M10	M12	M16	M20	M24
<b>Steel failure</b>									
<b>Characteristic resistance under tension load</b>									
Steel, zinc plated	Property class 5.8	$N_{Rk,s}$	[kN]	18	29	42	79	123	176
	Property class 8.8	$N_{Rk,s}$	[kN]	29	46	67	126	196	282
Stainless steel / High corrosion resistant steel	Property class 70	$N_{Rk,s}$	[kN]	26	41	59	110	172	247
	Property class 80	$N_{Rk,s}$	[kN]	29	46	67	126	196	282
<b>Partial factor <sup>1)</sup></b>									
Steel, zinc plated	Property class 5.8	$\gamma_{Ms,N}$	[-]	1,5					
	Property class 8.8	$\gamma_{Ms,N}$	[-]	1,5					
Stainless steel / High corrosion resistant steel	Property class 70	$\gamma_{Ms,N}$	[-]	1,5					
	Property class 80	$\gamma_{Ms,N}$	[-]	1,6					

<sup>1)</sup> In absence of other national regulations

**Table C2: Characteristic steel resistance under shear load for anchor rods W-VD-A**

Anchor rod W-VD-A				M8	M10	M12	M16	M20	M24
<b>Characteristic resistances under shear load</b>									
<b>Steel failure <u>without</u> lever arm</b>									
Steel, zinc plated	Property class 5.8	$V^0_{Rk,s}$	[kN]	11	17	25	47	73	106
	Property class 8.8	$V^0_{Rk,s}$	[kN]	15	23	34	63	98	141
Stainless steel / High corrosion resistant steel	Property class 70	$V^0_{Rk,s}$	[kN]	13	20	30	55	86	123
	Property class 80	$V^0_{Rk,s}$	[kN]	15	23	34	63	98	141
<b>Steel failure <u>with</u> lever arm</b>									
Steel, zinc plated	Property class 5.8	$M^0_{Rk,s}$	[Nm]	19	37	65	166	325	561
	Property class 8.8	$M^0_{Rk,s}$	[Nm]	30	60	105	266	519	898
Stainless steel / High corrosion resistant steel	Property class 70	$M^0_{Rk,s}$	[Nm]	26	52	92	233	454	785
	Property class 80	$M^0_{Rk,s}$	[Nm]	30	60	105	266	519	898
<b>Partial factor <sup>1)</sup></b>									
Steel, zinc plated	Property class 5.8	$\gamma_{Ms,V}$	[-]	1,25					
	Property class 8.8	$\gamma_{Ms,V}$	[-]	1,25					
Stainless steel / High corrosion resistant steel	Property class 70	$\gamma_{Ms,V}$	[-]	1,25					
	Property class 80	$\gamma_{Ms,V}$	[-]	1,33					

<sup>1)</sup> In absence of other national regulations

**Chemical Anchor W-VPZ**

**Performance**

Characteristic steel resistance under tension and shear load for anchor rods W-VD-A

**Annex C1**

**Table C3: Characteristic values of tension loads for anchor rods W-VD-A**

Anchor rod W-VD-A			M8	M10	M12	M16	M20	M24	
<b>Steel failure</b>									
<b>Characteristic resistance under tension load</b>									
Characteristic tension resistance	$N_{Rk,s}$	[kN]	see Table C1						
Partial factor	$\gamma_{Ms,N}$	[-]	see Table C1						
<b>Combined pull-out and concrete failure</b>									
<b>Characteristic bond resistance in <u>uncracked</u> concrete C20/25</b>									
Temperature range I:	+24°C / +40°C	$\tau_{Rk,ucr}$	[N/mm <sup>2</sup> ]	10,0	13,0	13,0	13,0	13,0	13,0
Temperature range II:	+50°C / +80°C	$\tau_{Rk,ucr}$	[N/mm <sup>2</sup> ]	8,5	11,0	11,0	11,0	11,0	11,0
Increasing factors for $\tau_{Rk,ucr}$ $\tau_{Rk,ucr} = \psi_{c,ucr} \cdot \tau_{Rk,ucr}(C20/25)$		$\psi_{c,ucr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,17}$					
<b>Characteristic bond resistance in <u>cracked</u> concrete C20/25</b>									
Temperature range I:	+24°C / +40°C	$\tau_{Rk,cr}$	[N/mm <sup>2</sup> ]	5,0	6,5	7,0	7,5	7,5	7,5
Temperature range II:	+50°C / +80°C	$\tau_{Rk,cr}$	[N/mm <sup>2</sup> ]	4,5	5,5	6,0	6,0	6,0	6,5
Increasing factors for $\tau_{Rk,cr}$ $\tau_{Rk,cr} = \psi_{c,cr} \cdot \tau_{Rk,cr}(C20/25)$		$\psi_{c,cr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,14}$					
<b>Reduction factor <math>\psi^0_{sus}</math> in concrete C20/25</b>									
Temperature range I:	+24°C / +40°C	$\psi^0_{sus}$	[-]	0,64					
Temperature range II:	+50°C / +80°C	$\psi^0_{sus}$	[-]	0,63					
<b>Concrete cone failure</b>									
Factor for	uncracked concrete	$k_{ucr,N}$	[-]	11,0					
	cracked concrete	$k_{cr,N}$	[-]	7,7					
Edge distance		$c_{cr,N}$	[mm]	1,5 $h_{ef}$					
Spacing		$s_{cr,N}$	[mm]	3 $h_{ef}$					
<b>Splitting failure</b>									
Edge distance	$h/h_{ef} \geq 2,0$	$c_{cr,sp}$	[mm]	1,0 $h_{ef}$					
	$2,0 > h/h_{ef} > 1,3$			$2 \cdot h_{ef} (2,5 - h / h_{ef})$					
	$h/h_{ef} \leq 1,3$			2,4 $h_{ef}$					
Spacing		$s_{cr,sp}$	[mm]	2 $c_{cr,sp}$					
Installation factor		$\gamma_{inst}$	[-]	1,2					

**Chemical Anchor W-VPZ**

**Performance**  
Characteristic values under **tension load** for **anchor rods W-VD-A**

**Annex C2**

**Table C4: Characteristic values of shear loads for anchor rods W-VD-A**

Anchor rod W-VD-A			M8	M10	M12	M16	M20	M24
<b>Steel failure <u>without</u> lever arm</b>								
Characteristic resistance	$V_{Rk,s}^0$	[kN]	see Table C2					
Ductility factor	$k_7$	[-]	1,0					
Partial factor	$\gamma_{Ms,V}$	[-]	see Table C2					
<b>Steel failure <u>with</u> lever arm</b>								
Characteristic bending resistance	$M_{Rk,s}^0$	[Nm]	see Table C2					
Partial factor	$\gamma_{Ms,V}$	[-]	see Table C2					
<b>Concrete pry-out failure</b>								
Pry-out factor	$k_8$	[-]	2,0					
<b>Concrete edge failure</b>								
Effective length of anchor	$l_f$	[mm]	80	90	110	125	170	210
Outside diameter of anchor	$d_{nom}$	[mm]	8	10	12	16	20	24
Installation factor	$\gamma_{inst}$	[-]	1,0					

**Chemical Anchor W-VPZ**

**Performance**

Characteristic values under **shear load** for anchor rods W-VD-A

**Annex C3**

**Table C5: Characteristic values of tension loads for anchor rods W-VD-A under seismic action, performance category C1**

Anchor rod W-VD-A			M8	M10	M12	M16	M20	M24	
<b>Steel failure</b>									
<b>Characteristic resistance under tension load</b>									
Characteristic tension resistance	$N_{RK,s,C1}$	[kN]	$N_{RK,s}$ see Table C1						
Partial factor	$\gamma_{Ms,N}$	[-]	see Table C1						
<b>Combined pull-out and concrete failure</b>									
<b>Characteristic bond resistance in concrete C20/25 to C50/60</b>									
Temperature range I:	+24°C / +40°C	$\tau_{RK,C1}$	[N/mm <sup>2</sup> ]	4,5	5,5	6,0	6,0	7,5	7,0
Temperature range II:	+50°C / +80°C	$\tau_{RK,C1}$	[N/mm <sup>2</sup> ]	4,0	4,5	5,5	5,0	6,0	5,5
Installation factor	$\gamma_{inst}$	[-]	1,2						

**Table C6: Characteristic values of shear loads for anchor rods W-VD-A under seismic action, performance category C1**

Anchor rod W-VD-A			M8	M10	M12	M16	M20	M24	
<b>Steel failure without lever arm</b>									
<b>Characteristic resistance under shear load</b>									
Steel, zinc plated	Property class 5.8	$V_{RK,s,C1}$	[kN]	9,0	14,3	20,7	36,3	56,2	81,5
	Property class 8.8	$V_{RK,s,C1}$	[kN]	12,0	19,0	27,7	48,4	75,5	109,3
Stainless steel / High corrosion resistant steel	Property class 70	$V_{RK,s,C1}$	[kN]	10,5	16,6	24,2	42,3	66,0	94,7
	Property class 80	$V_{RK,s,C1}$	[kN]	12,0	19,0	27,7	48,4	75,5	108,7
Partial factor	$\gamma_{Ms,V}$	[-]	see Table C2						
Factor for anchorages	with annular gap	$\alpha_{gap}$	[-]	0,5					
	without annular gap	$\alpha_{gap}$	[-]	1,0					
Installation factor	$\gamma_{inst}$	[-]	1,0						

**Chemical Anchor W-VPZ**

**Performance**

Characteristic values under seismic action, performance category C1 for anchor rods W-VD-A

**Annex C4**

**Table C7: Characteristic steel resistance under tension load for internally threaded anchor rods W-VP-IG**

Internally threaded anchor rod				IG-M 6	IG-M 8	IG-M 10	IG-M 12	IG-M 16
<b>Steel failure</b>								
Characteristic resistance, steel, zinc plated	Property class 5.8	$N_{Rk,s}$	[kN]	10	17	29	42	76
	Property class 8.8	$N_{Rk,s}$	[kN]	16	27	46	67	121
Partial factor <sup>1)</sup>		$\gamma_{Ms,N}$	[-]	1,5				
Characteristic resistance, stainless steel A4 / HCR	Property class 70	$N_{Rk,s}$	[kN]	14	26	41	59	110
				Partial factor <sup>1)</sup>				
<b>Combined pull-out and concrete failure</b>								
<b>Characteristic bond resistance in <u>uncracked</u> concrete C20/25</b>								
Temperature range I:	+24°C / +40°C	$\tau_{Rk,ucr}$	[N/mm <sup>2</sup> ]	13,0	13,0	13,0	13,0	13,0
Temperature range II:	+50°C / +80°C	$\tau_{Rk,ucr}$	[N/mm <sup>2</sup> ]	11,0	11,0	11,0	11,0	11,0
Increasing factors for $\tau_{Rk,ucr}$ $\tau_{Rk,ucr} = \psi_{c,ucr} \cdot \tau_{Rk,ucr}$ (C20/25)		$\psi_{c,ucr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,17}$				
<b>Characteristic bond resistance in <u>cracked</u> concrete C20/25</b>								
Temperature range I:	+24°C / +40°C	$\tau_{Rk,cr}$	[N/mm <sup>2</sup> ]	6,5	7,0	7,5	7,5	7,5
Temperature range II:	+50°C / +80°C	$\tau_{Rk,cr}$	[N/mm <sup>2</sup> ]	5,5	6,0	6,0	6,0	6,5
Increasing factors for $\tau_{Rk,cr}$ $\tau_{Rk,cr} = \psi_{c,cr} \cdot \tau_{Rk,cr}$ (C20/25)		$\psi_{c,cr}$	[-]	$\left(\frac{f_{ck}}{20}\right)^{0,14}$				
<b>Reduction factor <math>\psi_{sus}^0</math> in concrete C20/25</b>								
Temperature range I:	+24°C / +40°C	$\psi_{sus}^0$	[-]	0,64				
Temperature range II:	+50°C / +80°C	$\psi_{sus}^0$	[-]	0,63				
<b>Concrete cone failure</b>								
Factor for	uncracked concrete	$k_{ucr,N}$	[-]	11,0				
	cracked concrete	$k_{cr,N}$	[-]	7,7				
Edge distance		$c_{cr,N}$	[mm]	1,5 $h_{ef}$				
Spacing		$s_{cr,N}$	[mm]	3 $h_{ef}$				
<b>Splitting failure</b>								
Edge distance	$h/h_{ef} \geq 2,0$	$c_{cr,sp}$	[mm]	1,0 $h_{ef}$				
	$2,0 > h/h_{ef} > 1,3$			$2 \cdot h_{ef} (2,5 - h / h_{ef})$				
	$h/h_{ef} \leq 1,3$			2,4 $h_{ef}$				
Spacing		$s_{cr,sp}$	[mm]	2 $c_{cr,sp}$				
Installation factor		$\gamma_{inst}$	[-]	1,2				

<sup>1)</sup> In absence of other national regulations

**Chemical Anchor W-VPZ**

**Performance**  
Characteristic values under **tension load** for **internally threaded anchor rods W-VP-IG**

**Annex C5**

**Table C8: Characteristic steel resistance under shear load for internally threaded anchor rods W-VP-IG**

Internally threaded anchor rod				IG-M 6	IG-M 8	IG-M 10	IG-M 12	IG-M 16
<b>Steel failure <u>without</u> lever arm <sup>1)</sup></b>								
Steel, zinc plated	Property class 5.8	$V_{RK,s}^0$	[kN]	6	10	17	25	45
	Property class 8.8	$V_{RK,s}^0$	[kN]	8	14	23	34	60
Stainless steel A4 / HCR	Property class 70	$V_{RK,s}^0$	[kN]	7	13	20	30	55
Ductility factor		$k_7$	[-]	1,0				
<b>Steel failure <u>with</u> lever arm <sup>1)</sup></b>								
Steel, zinc plated	Property class 5.8	$M_{RK,s}^0$	[Nm]	8	19	37	66	167
	Property class 8.8	$M_{RK,s}^0$	[Nm]	12	30	60	105	267
Stainless steel A4 / HCR	Property class 70	$M_{RK,s}^0$	[Nm]	11	26	53	92	234
<b>Partial factor <sup>2)</sup></b>								
Steel, zinc plated	Property class 5.8	$\gamma_{Ms,V}$	[-]	1,25				
	Property class 8.8	$\gamma_{Ms,V}$	[-]	1,25				
Stainless steel A4 / HCR	Property class 70	$\gamma_{Ms,V}$	[-]	1,56				
<b>Concrete pry-out failure</b>								
Pry-out factor		$k_8$	[-]	2,0				
<b>Concrete edge failure</b>								
Effective length of fastener		$l_f$	[mm]	90	110	125	170	210
Outside diameter of fastener		$d_{nom}$	[mm]	10	12	16	20	24
Installation factor		$\gamma_{inst}$	[-]	1,0				

<sup>1)</sup> Fastening screws or threaded rods (incl. nut and washer) must comply with the appropriate material and property class of the internally threaded anchor rod. The characteristic shear resistance for steel failure of the given strength class are valid for the internally threaded anchor rod and the fastening element

<sup>2)</sup> In absence of other national regulations

**Chemical Anchor W-VPZ**

**Performance**

Characteristic values under **shear load** for **internally threaded anchor rods W-VP-IG**

**Annex C6**

**Table C9: Displacements under tension load**

Anchor size			M8	M10 IG-M6	M12 IG-M8	M16 IG-M10	M20 IG-M12	M24 IG-M16
<b>Displacement factor<sup>1)</sup> for uncracked concrete</b>								
Displacement	$\delta_{N0}$ -factor	[mm/(N/mm <sup>2</sup> )]	0,015	0,031	0,035	0,015	0,046	0,060
	$\delta_{N\infty}$ -factor	[mm/(N/mm <sup>2</sup> )]	0,085	0,067	0,067	0,067	0,067	0,067
<b>Displacement factor<sup>1)</sup> for cracked concrete</b>								
Displacement	$\delta_{N0}$ -factor	[mm/(N/mm <sup>2</sup> )]	0,046	0,038	0,024	0,008	0,024	0,133
	$\delta_{N\infty}$ -factor	[mm/(N/mm <sup>2</sup> )]	0,192	0,142	0,090	0,104	0,082	0,069

<sup>1)</sup> Calculation of the displacement

$$\delta_{N0} = \delta_{N0}\text{-factor} \cdot \tau; \quad \tau: \text{acting bond stress for tension}$$

$$\delta_{N\infty} = \delta_{N\infty}\text{-factor} \cdot \tau;$$

**Table C10: Displacements under shear load**

Anchor size			M8	M10 IG-M6	M12 IG-M8	M16 IG-M10	M20 IG-M12	M24 IG-M16
<b>Displacement factor<sup>1)</sup></b>								
Displacement	$\delta_{V0}$ -factor	[mm/(kN)]	0,06	0,06	0,05	0,04	0,04	0,03
	$\delta_{V\infty}$ -factor	[mm/(kN)]	0,09	0,08	0,08	0,06	0,06	0,05

<sup>1)</sup> Calculation of the displacement

$$\delta_{V0} = \delta_{V0}\text{-factor} \cdot V; \quad V: \text{acting shear load}$$

$$\delta_{V\infty} = \delta_{V\infty}\text{-factor} \cdot V;$$

**Chemical Anchor W-VPZ**

**Performance**  
Displacements

**Annex C7**

## ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

№ 5915508085\_01\_M\_W-VPZ

1. Уникален идентификационен код на типа на продукта: Würth Verbundanker W-VPZ (Würth свързващ анкер W-VPZ)  
 Арт. №: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090, 5915808110, 5915810125, 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Предвидена употреба/употреби: Verbunddübel zur Verankerung im Beton (Свързващ дюбел за закотвяне в бетон)
3. Производител: Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 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 330499-01-0601, издание 4/2020  
 Европейска техническа оценка: ETA-21/0168 - 21.07.2023  
 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
<b>Механична якост и устойчивост (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Характерно съпротивление за натоварване на опън (статични и квазистатични въздействия)	Приложение B2, B3, C1, C2 и C5	
Характерно съпротивление за напречно натоварване (статични и квазистатични въздействия)	Приложение C1, C3, C6	
Измествания за краткотрайно и дълготрайно натоварване	Приложение C7	
Характерно съпротивление за сеизмична категория експлоатационни характеристики C1	Приложение C4	
Характерно съпротивление и изместване за сеизмична категория експлоатационни характеристики C2	Експлоатационният показател не е оценяван	
<b>Хигиена, здравеопазване и опазване на околната среда (BWR 3)</b>		
Съдържание, емисия и/или освобождаване на опасни вещества	Експлоатационният показател не е оценяван	

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:

---

Дипл. инж. Андреас Хек  
(Ръководител отдел продукт крепежна  
техника)

---

Д-р. инж. Зигфрид Байхтер  
(Прокурисг - Безопасност на  
продуктите)

Кюнцелзау, 1.7.2024 г.

## PROHLÁŠENÍ O VÝKONU

### Č 5915508085\_01\_M\_W-VPZ

- |  |  |
|--|--|
| 1. Jedinečný identifikační kód typu produktu:  | Kompozitová kotva Würth W-VPZ<br>Číslo položky: 5915508085; 5915510090; 5915512095; 5915516095;<br>5915520145; 5915524*; 59151*; 59152*; 59153*; 59154*;<br>5916408110; 5916410130; 5916412160; 5916416190;<br>5915806090; 5915808110; 5915810125; 5915812170; 5915816*;<br>5915906090; 5915908110; 5915910125; 5915912170; 5915916* |
| 2. Zamýšlené(á) použití:   | Kompozitní hmoždinka pro kotvení do betonu   |
| 3. Výrobce:  | Adolf Würth GmbH & Co. KG,<br>Reinhold-Würth-Straße 12-17<br>D - 74653 Künzelsau   |
| 4. Systém(y) pro hodnocení a ověřování stálého výkonu:   | Systém 1   |
| 5. Evropský dokument pro posuzování:<br>Evropské technické posouzení:<br>Pracoviště pro technické hodnocení: | EAD 330499-01-0601, Edition 4/2020<br>ETA-21/0168 - 21.07.2023<br>Deutsches Institut für Bautechnik (DIBt) (Německý institut pro stavební techniku), Berlín.   |
| Ohlášený(é) subjekt(y):  | 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW) (Institut pro ocelové konstrukce a mechaniku materiálů), Darmstadt  |
| 6. Prohlášení:   |  |

Klíčové vlastnosti	Výkon	Harmonizovaná technická specifikace
<b>Mechanická pevnost a stabilita (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Charakteristická odolnost proti namáhání v tahu (statické a kvazistatické účinky)	Anhang B2, B3, C1, C2 und C5	
Charakteristická odolnost proti namáhání v tahu (statické a kvazistatické účinky)	Přílohy C1, C3, C6	
Přemístění pro krátkodobé i dlouhodobé použití	Přílohy C7	
Charakteristická odolnost pro kategorii seismické síly C1	Přílohy C4	
Charakteristická odolnost pro kategorii seismické síly C2	Výkon nebyl hodnocen	
<b>Hygiena, zdraví a ochrana životního prostředí (BWR 3)</b>		
Složení, emise a/nebo uvolňování nebezpečných látek	Výkon nebyl hodnocen	

Výkon výše uvedeného produktu odpovídá deklarovanému výkonu (vlastnostem). Výše uvedený výrobce je výhradně odpovědný za přípravu prohlášení o vlastnostech v souladu s nařízením (EU) č. 305/2011.

Podepsáno za výrobce a jménem výrobce:

---

Dipl.-Ing. Andreas Heck  
(Vedoucí oddělení produktů  
upevňovacích technologií)

---

Dr.-Ing. Siegfried Beichter  
(Prokurista – bezpečnost výrobků)

Künzelsau, 01.07.2024

## YDEEVNEDEKLARATION

Nr. 5915508085\_01\_M\_W-VPZ

1. **Produkttypens entydige identifikationskode:** Würth kompositanker W-VPZ  
 Art.-nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. **Anvendelsesformål:** Skruefybel til forankring i beton
3. **Producent:** Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. **System(er) til bedømmelse og kontrol af ydeevnebestandigheden:** System 1
5. **Europæisk vurderingsdokument:** EAD 330499-01-0601, Edition 4/2020  
**Europæisk teknisk bedømmelse:** ETA-21/0168 - 21.07.2023  
**Teknisk evalueringsmyndighed:** Deutsches Institut für Bautechnik, DIBt (tysk byggeteknisk institut)  
**Notificeret myndighed/notificerede myndigheder:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. **Deklareret ydeevne/deklarerede ydeevner:**

Væsentlige egenskaber	Ydelse	Harmoniseret teknisk specifikation
<b>Mekanisk modstandsdygtighed og stabilitet (BWR 1)</b>		
Karakteristisk modstand for trækbelastning (statiske og kvasistatiske påvirkninger)	Bilag B2, B3, C1, C2 og C5	ETA-21/0168 EAD 330499-01-0601
Karakteristisk modstand for tværbelastning (statiske og kvasistatiske påvirkninger)	Bilag C1, C3, C6	
Forskydninger under korttids- og langtidsbelastning	Bilag C7	
Karakteristisk modstand for seismisk effektkategori C1	Bilag C4	
Karakteristisk modstand og forskydninger for seismisk effektkategori C2	Ydelse ikke evalueret	
<b>Hygiejne, sundhed og miljøbeskyttelse (BWR 3)</b>		
Indhold, emission og/eller frigivelse af farlige stoffer	Ydelse ikke evalueret	

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

Underskrevet for og på vegne af producenten af:

---

Dipl.-Ing. Andreas Heck  
(Afdelingsleder  
produktmontageteknologi)

---

Dr.-ing. Siegfried Beichter  
(Prokurist produktsikkerhed)

Künzelsau, den 01.07.2024

**LEISTUNGSERKLÄRUNG**  
**Nr. 5915508085\_01\_M\_W-VPZ**

1. Eindeutiger Kenncode des Produkttyps: Würth Verbundanker W-VPZ  
 Art.-Nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Verwendungszweck(e): Verbunddübel zur Verankerung im Beton
3. Hersteller: Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit: System 1
5. Europäisches Bewertungsdokument: EAD 330499-01-0601, Edition 4/2020  
 Europäische Technische Bewertung: ETA-21/0168 - 21.07.2023  
 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
<b>Mechanische Festigkeit und Standsicherheit (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Charakteristischer Widerstand für Zugbeanspruchung (statische und quasi-statische Einwirkungen)	Anhang B2, B3, C1, C2 und C5	
Charakteristischer Widerstand für Querbeanspruchung (statische und quasi-statische Einwirkungen)	Anhang C1, C3, C6	
Verschiebungen für Kurzzeit- und Langzeitbeanspruchung	Anhang C7	
Charakteristischer Widerstand für seismische Leistungskategorie C1	Leistung nicht bewertet	
Charakteristischer Widerstand und Verschiebungen für seismische Leistungskategorie C2	Leistung nicht bewertet	
<b>Hygiene, Gesundheit und Umweltschutz (BWR 3)</b>		
Inhalt, Emission und/oder Freisetzung von gefährlichen Stoffen	Leistung nicht bewertet	

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:

i.V. 

Andreas Heck  
08.07.2024 10:54:45 [UTC+2]

Dipl.-Ing. Andreas Heck  
(Abteilungsleiter Produkt  
Befestigungstechnik)



Siegfried Beichter  
08.07.2024 11:30:53 [UTC+2]

Dr. -Ing. Siegfried Beichter  
(Prokurist - Produktsicherheit)

Künzelsau, den 01.07.2024

## DECLARACIÓN DE PRESTACIONES

**N.º 5915508085\_01\_M\_W-VPZ**

1. **Código de identificación única del producto tipo:** Anclaje combinado Würth W-VPZ  
 N.º de art.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. **Uso(s) previsto(s):** Taco químico para anclaje en hormigón
3. **Fabricante:** Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 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 330499-01-0601, edición 4/2020  
**Evaluación Técnica Europea:** ETA-21/0168 - 21.07.2023  
**Organismo de Evaluación Técnica:** Deutsches Institut für Bautechnik (DIBt, Instituto Alemán de Tecnología de la Construcción), Berlín  
**Organismo(s) notificado(s):** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW, Instituto para la construcción de acero y mecánica de materiales), Darmstadt
6. **Prestaciones declaradas:**

Características esenciales	Prestación	Especificación técnica armonizada
<b>Resistencia mecánica y estabilidad (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Resistencia característica bajo esfuerzo de tracción (efectos estáticos y cuasiestáticos)	Anexos B2, B3, C1, C2 y C5	
Resistencia característica bajo esfuerzo transversal (efectos estáticos y cuasiestáticos)	Anexos C1, C3, C6	
Desplazamientos para esfuerzo a corto y largo plazo	Anexo C7	
Resistencia característica para la categoría de actividad sísmica C1	Anexo C4	
Resistencia característica y desplazamientos para la categoría de actividad sísmica C2	Prestación no evaluada	
<b>Higiene, salud y protección medioambiental (BWR 3)</b>		
Contenido, emisión y liberación de sustancias peligrosas	Prestación no evaluada	

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.º 305/2011, bajo la sola responsabilidad del fabricante arriba identificado.

Firmado por y en nombre del fabricante por:

---

Dipl. Ing. Andreas Heck  
(Director del departamento de producto  
de tecnología de fijación)

---

Dr. Ing. Siegfried Beichter  
(Apoderado - seguridad del producto)

Künzelsau, 01.07.2024

## TOIMIVUSDEKLARATSIOON

Nr 5915508085\_01\_M\_W-VPZ

1. Toote tüübi kordumatu identifitseerimiskood: Würthi ühendusankur W-VPZ  
Art-nr: 5915508085; 5915510090; 5915512095; 5915516095; 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*; 5916408110; 5916410130; 5916412160; 5916416190; 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*; 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Kavandatud kasutusotstarve (-otstarbed): Ühendusankur kinnitamiseks betooni
3. Tootja: Adolf Würth GmbH & Co. KG,  
Reinhold-Würth-Straße 12 - 17  
D - 74653 Künzelsau
4. Toimivuse püsivuse hindamise ja kontrolli süsteem(id): Süsteem 1
5. Euroopa hindamisdokument: EAD 330499-01-0601, 4/2020  
Euroopa tehniline hinnang: ETA-21/0168 - 21.07.2023  
Tehnilise hindamise asutus: Deutsches Institut für Bautechnik (Saksa Ehitustehnika Instituut - DIBt), Berliin.  
Teavitatud asutus(ed): 2873, Institut für Stahlbau und Werkstoffmechanik (Teraskonstruksioonide ja materjalimehaanika instituut - IFSW), Darmstadt
6. Deklareeritud toimus(ed):

Põhiomadused	Toimivus	Ühtlustatud tehniline kirjeldus
<b>Mehaaniline tugevus ja vastupidavus (BWR 1)</b>		
Iseloomulik tõmbetakistus (staatiline ja kvaasistaatiline mõju)	Lisa B2, B3, C1, C2 ja C5	ETA-21/0168 EAD 330499-01-0601
Iseloomulik nihketakistus (staatiline ja kvaasistaatiline mõju)	Lisa C1, C3, C6	
Nihked lühi- ja pikaajalisel koormamisel	Lisa C7	
Iseloomulik vastupanu seismiliste toimumiskategooria C1 jaoks	Lisa C4	
Iseloomulik vastupanu ja nihked seismilise toimumiskategooria C2 jaoks	Toimivus hindamata	
<b>Hügieen, tervishoid ja keskkonnakaitse (BWR 3)</b>		
Ohtlike ainete sisaldus, eraldumine ja/või vabanemine	Toimivus hindamata	

Eespool nimetatud toodete toimus vastab deklareeritud toimumisele / deklareeritud toimumistele. Vastusdeklaratsiooni koostamise eest kooskõlas määrusega (EL) nr 305/2011 vastutab ainuisikuliselt eespool nimetatud tootja.

Tootja poolt ja nimel allkirjastanud:

---

Dipl ins Andreas Heck  
(kinnitusvahendite tooteosakonna juht)

---

Dr ins Siegfried Beichter  
(prokurist - tooteohutus)

Künzelsau, 01.07.2024

## SUORITUSTASOILMOITUS

Nro 5915508085\_01\_M\_W-VPZ

1. Tuotetyypin yksilöllinen tunniste: Würth kemiallinen ankkuri W-VPZ  
Tuote-nrot: 5915508085; 5915510090; 5915512095; 5915516095;  
5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
5916408110; 5916410130; 5916412160; 5916416190;  
5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Aiottu käyttötarkoitus (aiotut käyttötarkoitukset): Vaarnaruvi betoniin ankkuroimiseksi
3. Valmistaja: Adolf Würth GmbH & Co. KG,  
Reinhold-Würth-Straße 12-17  
D - 74653 Künzelsau, Saksa
4. Suoritustason arvioinnin ja tarkistamisen järjestelmä(t): Järjestelmä 1
5. Eurooppalainen arviointidokumentti: EAD 330499-01-0601, julkaisu 4/2020  
Eurooppalainen tekninen arviointi: ETA-21/0168 - 21.7.2023  
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	Suoritustaso	Yhdenmukaistetut tekniset eritelmät	
<b>Mekaaninen lujuus ja vakaus (BWR 1)</b>			
Ominaisvastus vetokuormitukselle (staattiset ja kvasistaattiset vaikutukset)	Liitteet B2, B3, C1, C2 ja C5	ETA-21/0168 EAD 330499-01-0601	
Ominaisvastus poikittaiskuormitukselle (staattiset ja kvasistaattiset vaikutukset)	Liitteet C1, C3, C6		
Siirtymä lyhytaikaisessa ja pitkäaikaisessa kuormituksessa	Liite C7		
Ominaisvastus seismiselle teholuokalle C1	Liite C4		
Ominaisvastus ja siirtymä seismiselle teholuokalle C2	Suoritustasoa ei arvioidu		
<b>Hygienia, terveys ja ympäristönsuojelu (BWR 3)</b>			
Vaarallisten aineiden sisältö, päästöt ja/tai vapautuminen	Suoritustasoa ei arvioidu		

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

Valmistajan puolesta allekirjoittanut:

---

Dipl. ins. Andreas Heck  
(Kiinnitysteknisten tuotteiden  
osastonjohtaja)

---

Tri -ins. Siegfried Beichter  
(Prokuristi - tuoteturvallisuus)

Künzelsau, 1.7.2024

## DÉCLARATION DES PERFORMANCES

**No. 5915508085\_01\_M\_W-VPZ**

1. Code d'identification unique du produit type : Système d'ancrage Würth W-VPZ  
N° d'art. 5915508085; 5915510090; 5915512095; 5915516095;  
5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
5916408110; 5916410130; 5916412160; 5916416190;  
5915806090, 5915808110, 5915810125, 5915812170, 5915816\*,  
5915906090, 5915908110, 5915910125, 5915912170, 5915916\*
2. Usage ou usages prévu(s) : Cheville composite d'ancrage 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 330499-01-0601, édition 4/2020  
Évaluation technique européenne : ETA-21/0168 - 21.07.2023  
Organisme d'évaluation technique : Deutsches Institut für Bautechnik (DIBt), Berlin (Institut Allemand de Technologie de la Construction)  
Organisme(s) notifié(s) : 2873, Institut für Stahlbau und Werkstoffmechanik (Institut pour la construction acier et la mécanique des matériaux - IFSW), Darmstadt
6. Performance(s) déclarée(s) :

Caractéristiques essentielles	Performance	Spécification technique harmonisée
<b>Résistance mécanique et stabilité (BWR 1)</b>		
Résistance caractéristique sous contrainte de traction (forces pénétrantes statiques et quasi-statiques)	Annexes B2, B3, C1, C2 et C5	ETA-21/0168 EAD 330499-01-0601
Résistance caractéristique sous contrainte de traction (forces pénétrantes statiques et quasi-statiques)	Annexes C1, C1, C3, C6	
Déplacements sous contrainte de courte et de longue durée	Annexe C7	
Résistance caractéristique pour la catégorie de performance sismique C1	Annexe C4	
Résistance caractéristique et déplacements pour la catégorie de performance sismique C2	Performance non évaluée	
<b>Hygiène, santé et environnement (BWR 3)</b>		
Dégagement de substances dangereuses	Performance non évaluée	

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 :

---

Ingénieur diplômé Andreas Heck  
(Directeur département Produits)

---

Dr.-Ing. Siegfried Beichter  
(Fondé de pouvoir - Sécurité des  
produits)

Künzelsau, le 01/07/2024

## DEARBHÚ FEIDHMÍOCHTA

Uimh. 5915508085\_01\_M\_W-VPZ

1. Cód aitheantais uathúil an chineáil táirge: Ancaire nasctha Würth W - VPZ  
Uimh. Earra: 5915508085; 5915510090; 5915512095; 5915516095; 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*; 5916408110; 5916410130; 5916412160; 5916416190; 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*; 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Úsáid(i) b(h)eartaithe: Ancaire nasctha le haghaidh ancaireachta i gcoincreít
3. Monaróir: Adolf Würth GmbH & Co. KG,  
Reinhold-Würth-Straße 12 - 17  
D - 74653 Künzelsau
4. Córa(i)s chun seasmhacht feidhmíochta a mheas agus a scrúdú: Córas 1
5. Doiciméad Measúnaithe Eorpach: EAD 330499-01-0601, Eagrán 4/2020  
Measúnú Teicniúil Eorpach: ETA-21/0168 - 21.07.2023  
Ionad Measúnaithe Teicniúil: Deutsches Institut für Bautechnik, (DIBt), (Ionad Teicníocht Tógála na Gearmáine), Beirlín.  
Iona(i)d dá dtugtar fógra: 2873, An Institiúid um Fhoirgníocht Chruaiche agus Meicnic Ábhar (IFSW), Darmstadt
6. Feidhmíocht(aí) d(h)earbhaithe:

Príomhthréithe	Feidhmíocht	Sonraíocht theicniúil chomhchuibhithe
<b>Doichte agus Cobhsaíocht Mheicniúil (BWR 1)</b>		
Seasmhacht shaintréitheach faoi ualach tarraingthe (tionchair statacha agus chuasastatacha)	Aguisín B2, B3, C1, C2 agus C5	ETA-21/0168 EAD 330499-01-0601
Seasmhacht shaintréitheach faoi ualach trasna (tionchair statacha agus chuasastatacha)	Aguisín C1, C3, C6	
Aistrithe le haghaidh úsáide gearrthearmaí agus fadtéarmaí	Aguisín C7	
Seasmhacht shaintréitheach maidir le catagóir fheidhmíochta sheismeach C1	Aguisín C4	
Seasmhacht shaintréitheach agus aistrithe maidir le catagóir fheidhmíochta sheismeach C2	Níor measadh an fheidhmíocht	
<b>Sláintíocht, Sláinte agus Cosaint Comhshaoil (BWR 3)</b>		
Ábhar, astú agus/nó scaoileadh substaintí guaiseacha	Níor measadh an fheidhmíocht	

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.

Arna shíniú ar son an déantúsóra agus thar a cheann ag:

---

Dipl.-Ing. Andreas Heck  
(Ceann Roinne um Teicneolaíocht  
Daingnithe Táirgí)

---

Dr. -Ing. Siegfried Beichter  
(Ionadaí údaraithe - Sábháilteacht  
táirgí)

Künzelsau, 01.07.2024

**ΔΗΛΩΣΗ ΕΠΙΔΟΣΕΩΝ**  
**Nr. 5915508085\_01\_M\_W-VPZ**

1. Μοναδικός κωδικός αναγνώρισης του τύπου του προϊόντος: Αγκύριο στερέωσης Würth W-VPZ  
 Αρ. είδ.: 5915508085, 5915510090, 5915512095, 5915516095, 5915520145, 5915524\*, 59151\*, 59152\*, 59153\*, 59154\*, 5916408110, 5916410130, 5916412160, 5916416190, 5915806090, 5915808110, 5915810125, 5915812170, 5915816\*, 5915906090, 5915908110, 5915910125, 5915912170, 5915916\*
2. Προτεινόμενη(-ες) χρήση(-εις): Συνδετικός πείρος για αγκύρωση σε μπετόν
3. Κατασκευαστής: Adolf Würth GmbH & Co. KG  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. Σύστημα(τα) αξιολόγησης και επαλήθευσης της σταθερότητας της απόδοσης: Σύστημα 1
5. Ευρωπαϊκό έντυπο αξιολόγησης: EAD 330499-01-0601, έκδοση 4/2020  
 Ευρωπαϊκή τεχνική αξιολόγηση: ETA-21/0168 - 21.07.2023  
 Τεχνική υπηρεσία αξιολόγησης: Deutsches Institut für Bautechnik DIBt, Βερολίνο  
 Κοινοποιημένος (-οι) οργανισμός (-οι): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Δηλωμένη (-ες) επίδοση (-εις):

Ουσιώδη χαρακτηριστικά	Απόδοση	Εναρμονισμένη τεχνική προδιαγραφή
<b>Μηχανική αντοχή και ευστάθεια (BWR 1)</b>		
Χαρακτηριστική αντίσταση σε εφελκυστική καταπόνηση (στατικές και οιοινεί στατικές επιδράσεις)	Παράρτημα B2, B3, C1, C2 και C5	ETA-21/0168 EAD 330499-01-0601
Χαρακτηριστική αντίσταση σε εγκάρσια καταπόνηση (στατικές και οιοινεί στατικές επιδράσεις)	Παράρτημα C1, C3, C6	
Μετατοπίσεις υπό σύντομης ή μεγάλης διάρκειας φορτίο	Παράρτημα C7	
Χαρακτηριστική αντίσταση για σεισμική κατηγορία απόδοσης C1	Παράρτημα C4	
Χαρακτηριστική αντίσταση και μετατοπίσεις για σεισμική κατηγορία απόδοσης C2	Μη αξιολογημένη απόδοση	
<b>Υγιεινή, υγεία και περιβαλλοντική προστασία (BWR 3)</b>		
Περιεχόμενο, εκπομπή και/ή απελευθέρωση επικίνδυνων ουσιών	Μη αξιολογημένη απόδοση	

Η απόδοση του παρόντος προϊόντος ανταποκρίνεται στη δηλωθείσα απόδοση/δηλωθείσες αποδόσεις. 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 στο όνομα του κατασκευαστή από:

---

Dipl.-Ing. Andreas Heck

(Διευθυντής τομέα προϊόντων Τεχνολογία  
στερέωσης)

Künzelsau, 01.07.2024

---

Dr. -Ing. Siegfried Beichter

(Γενικός εμπορικός πληρεξούσιος -  
Ασφάλεια προϊόντων)

## IZJAVA O SVOJSTVIMA

**Br. 5915508085\_01\_M\_W-VPZ**

1. Jedinствена identifikacijska oznaka tipa proizvoda: Würth Verbundanker W-VPZ  
Br. art.: 5915508085; 5915510090; 5915512095; 5915516095;  
5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
5916408110; 5916410130; 5916412160; 5916416190;  
5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Namjena(e): Spojni zatik za kotvljenje u betonu
3. Proizvođač: Adolf Würth GmbH & Co. KG,  
Reinhold-Würth-Straße 12 - 17  
D - 74653 Künzelsau
4. Sustav/i za ocjenjivanje i provjeru stalnosti svojstava: Sustav 1
5. Europski dokument za ocjenjivanje: EAD 330499-01-0601, izdanje 4/2020  
Europska tehnička ocjena: ETA-21/0168 - 21.07.2023  
Tijelo za tehničku ocjenu: Deutsches Institut für Bautechnik (DIBt), Berlin.  
Prijavljeno tijelo/a: 2873, Institut za čelične konstrukcije i mehaniku materijala (IFSW), Darmstadt
6. Navedeno svojstvo/a:

Bitna obilježja	Svojstvo	Usklađene tehničke specifikacije
<b>Mehanička čvrstoća i stabilnost (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Karakteristični otpor za uzdužno opterećenje (statično i kvazistatično djelovanje)	Prilog B2, B3, C1, C2 i C5	
Karakteristični otpor za poprečno opterećenje (statično i kvazistatično djelovanje)	Prilog C1, C3, C6	
Pomicanje pri kratkotrajnom i dugotrajnom opterećenju	Prilog C7	
Karakteristični otpor za kategoriju seizmičkog učinka C1	Prilog C4	
Karakteristični otpor i pomicanje za kategoriju seizmičkog učinka C2	Svojstvo nije ocijenjeno	
<b>Higijena, zdravlje i zaštita okoliša (BWR 3)</b>		
Sadržaj, emisije i/ili oslobađanje opasnih tvari	Svojstvo nije ocijenjeno	

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

Potpisano za i u ime proizvođača od strane:

---

Dipl.-Ing. Andreas Heck  
(Voditelj odjela proizvoda Tehnologija  
pričvršćivanja)

---

Dr. -Ing. Siegfried Beichter  
(Ovlašteni potpisnik - sigurnost  
proizvoda)

Künzelsau, 01.07.2024

## TELJESÍTMÉNYNYILATKOZAT

**Sz. 5915508085\_01\_M\_W-VPZ**

- |   |  |
|---|--|
| 1. A terméktípus egyértelmű azonosítókódja:   | Würth Vegyi dübel W-VPZ<br>Cikksz.: 5915508085; 5915510090; 5915512095; 5915516095;<br>5915520145; 5915524*; 59151*; 59152*; 59153*; 59154*;<br>5916408110; 5916410130; 5916412160; 5916416190;<br>5915806090; 5915808110; 5915810125; 5915812170; 5915816*;<br>5915906090; 5915908110; 5915910125; 5915912170; 5915916* |
| 2. Felhasználási cél(ok):   | Vegyi dübel betonban történő lehorgonyzáshoz   |
| 3. Gyártó:  | Adolf Würth GmbH & Co. KG,<br>Reinhold-Würth-Straße 12 - 17<br>D - 74653 Künzelsau   |
| 4. A teljesítményállóság értékelésére és felülvizsgálatára szolgáló rendszer(ek):   | 1. rendszer  |
| 5. Európai értékelő dokumentum:<br>Európai műszaki értékelés:<br>Műszaki értékelő szervezet:<br>Bejelentett testület(ek): | EAD 330499-01-0601, Edition 4/2020<br>ETA-21/0168 - 2023.07.21.<br>Deutsches Institut für Bautechnik (DIBt), Berlin.<br>2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt  |
| 6. Nyilatkozott teljesítmény(ek):   |  |

Lényeges jellemzők	Teljesítmény	Harmonizált műszaki specifikáció
<b>Mechanikai szilárdság és stabilitás (BWR 1)</b>		
Jellemző ellenállás húzó igénybevétellel szemben (statikus és kvázi-statikussal szemben)	B2, B3, C1, C2 és C5 függelék	ETA-21/0168 EAD 330499-01-0601
Jellemző ellenállás keresztirányú igénybevétellel szemben (statikus és kvázi-statikussal szemben)	C1, C3, C6 függelék	
A rövid és hosszú távú igénybevétel eltolódásai	C7 függelék	
A C1 szeizmikus teljesítménykategória jellemző ellenállása	C4 függelék	
A C2 szeizmikus teljesítménykategória jellemző ellenállása és eltolódásai	Teljesítmény nincs értékelve	
<b>Higiénia, egészség és környezetvédelem (BWR 3)</b>		
Tartalom, emisszió és/vagy veszélyes anyagok kibocsátása	Teljesítmény nincs értékelve	

A fenti termék teljesítménye megfelel a nyilatkozott teljesítmény(ek)nek. A 305/2011/EU rendelet szerinti teljesítménynyilatkozat elkészítéséért kizárólag a fent nevezett gyártó felelős.

A gyártó megbízásából és nevében aláírta:

---

Dipl.-Ing. Andreas Heck  
(Rögzítéstechnikai termékek  
osztályvezető)

---

Dr. -Ing. Siegfried Beichter  
(Cégvezető - Termékbiztonság)

Künzelsau, 2024.07.01.

## DICHIARAZIONE DI PRESTAZIONE

**N. 5915508085\_01\_M\_W-VPZ**

- |   |   |
|---|---|
| 1. Codice di identificazione unico del prodotto-tipo:     | Würth Verbundanker W-VPZ (ancorante chimico Würth W-VPZ)<br>Art. n.: 5915508085; 5915510090; 5915512095; 5915516095;<br>5915520145; 5915524*; 59151*; 59152*; 59153*; 59154*;<br>5916408110; 5916410130; 5916412160; 5916416190;<br>5915806090; 5915808110; 5915810125; 5915812170; 5915816*;<br>5915906090; 5915908110; 5915910125; 5915912170; 5915916* |
| 2. Utilizzo/i previsto/i:                                 | Tassello chimico per l'ancoraggio in calcestruzzo   |
| 3. Azienda produttrice:                                   | Adolf Würth GmbH & Co. KG,<br>Reinhold-Würth-Straße 12 - 17<br>D - 74653 Künzelsau  |
| 4. Sistema/i di valutazione e verifica della prestazione: | Sistema 1   |
| 5. Documento per la Valutazione Europea:                  | EAD 330499-01-0601, edizione 4/2020   |
| Valutazione tecnica europea:                              | ETA-21/0168 - 21.07.2023  |
| 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
<b>Resistenza meccanica e stabilità (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Resistenza caratteristica a trazione (carichi statici e quasi statici)	Allegati B2, B3, C1, C2 e C5	
Resistenza caratteristica ai carichi orizzontali (carichi statici e quasi statici)	Allegati C1, C3, C6	
Variazioni con carichi a breve e lungo termine	Allegato C7	
Resistenza caratteristica per categoria sismica C1	Allegato C4	
Resistenza caratteristica e variazioni per categoria sismica C2	Prestazione non valutata	
<b>Igiene, salute e ambiente (BWR 3)</b>		
Contenuto, emissione e/o rilascio di sostanze pericolose	Prestazione non valutata	

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:

---

Dipl.-Ing. Andreas Heck  
(Responsabile di settore Produzione  
Elementi di fissaggio)

---

Dr. -Ing. Siegfried Beichter  
(Procuratore - Sicurezza del prodotto)

Künzelsau, 01.07.2024

## EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

**Nr. 5915508085\_01\_M\_W-VPZ**

1. Produkto tipo unikalus atpažinimo kodas: Würth cheminis ankeris W-VPZ  
Prekės Nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
5916408110; 5916410130; 5916412160; 5916416190;  
5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Naudojimo paskirtis (-ys): sujungimo kaištis tvirtinimui betone
3. Gamintojas: „Adolf Würth GmbH & Co. KG“.  
Reinhold-Würth g. 12-17  
D - 74653 Künzelsau
4. Eksploatacinių savybių atsparumo įvertinimo ir patikrinimo sistema (-os): Sistema 1
5. Europos įvertinimo dokumentas: EAD 330499-01-0601, 2020 m. balandžio mėn. leidimas  
Europos techninis įvertinimas: ETA-21/0168 - 21.07.2023  
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
<b>Mechaninis stiprumas ir stabilumas (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Būdingas atsparumas tempimo įtampai (statinė ir kvazistatinė apkrova)	B2, B3, C1, C2 ir C5 priedas	
Būdingas atsparumas šlyties apkrovai (statinė ir kvazistatinė apkrova)	C1, C3, C6 priedas	
Trumpalaikės ir ilgalaikės apkrovos poslinkiai	C7 priedas	
Būdingas pasipriešinimas seisminei eksploatacinių savybių kategorijai C1	C4 priedas	
Būdingas atsparumas ir poslinkiai seisminei eksploatacinių savybių kategorijai C2	Neįvertinta eksploatacinė savybė	
<b>Higiena, sveikata ir aplinkosauga (BWR 3)</b>		
Pavojingų medžiagų turinys, emisija ir (arba) išskyrimas	Neįvertinta eksploatacinė savybė	

Turimo 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:

---

Dipl. inž. Andreas Heck  
(Tvirtinimo technologijų gaminių padalinio  
vadovas)

---

Dr. inž. Siegfried Beichter  
(Produktų saugos įgaliotasis asmuo)

Kiuncelsau, 2024.07.01

## EKSPLOATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

**Nr. 5915508085\_01\_M\_W-VPZ**

1. Unikāls izstrādājuma tipa identifikācijas kods: Würth savienošanas enkurs W-VPZ  
Preces Nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
5916408110; 5916410130; 5916412160; 5916416190;  
5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Lietojuma mērķis(-i): savienošanas dībelis enkurošanai betonā
3. Ražotājs: Uzņēmums: Adolf Würth GmbH & Co. KG.  
Reinhold-Würth-Straße 12 - 17  
D - 74653 Künzelsau (Kincelsava, Vācija)
4. Eksploatācijas īpašību noturības novērtējuma un pārbaudes sistēma(-as): 1 sistēma
5. Eiropas novērtējuma dokuments: EAD 330499-01-0601, 2020. g. aprīļa izdevums  
Eiropas Tehniskais novērtējums: ETA-21/0168 - 21.07.2023.  
Tehniskā novērtējuma iestāde: Deutsches Institut für Bautechnik, DIBt (Vācijas Būvniecības tehnoloģiju institūts), Berlīne.  
Pilnvarotā(-ās) iestāde(-es): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Darmštate)
6. Deklarētā veikspēja(-as):

Būtiskie raksturlielumi	Eksploatācijas īpašības	Saskaņotā tehniskā specifikācija
<b>Mehāniskā izturība un stiprība (BWR 1)</b>		
Raksturīgā pretestība stiepes slodzei (statiska un kvazistatiska iedarbība)	B2, B3, C1, C2 un C5 pielikums	ETA-21/0168 EAD 330499-01-0601
Raksturīgā pretestība šķērsslodzei (statiska un kvazistatiska iedarbība)	C1, C3, C6 pielikums	
Bīde pie īslaicīgas un ilgstošas slodzes	C7 pielikums	
Seismisko īpašību kategorijas C1 raksturīgā pretestība	C4 pielikums	
Raksturīgā pretestība un bīdes saistībā ar seismisko īpašību kategoriju C2	Īpašība nav vērtēta	
<b>Higiēna, veselība un vides aizsardzība (BWR 3)</b>		
Bīstamu vielu saturs, emisija un/vai izdalīšana	Īpašība nav vērtēta	

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

Ražotāja un ražotāja pārstāvja paraksts:

---

Dipl.-inž. Dr. Andreas Heks (Andreas Heck)

(Produktu nostiprināšanas tehnoloģijas  
nodaļas vadītājs)

Künzelsau (Kincelzava, Vācija),  
01.07.2024.

---

Dr.-inž. Zigfrīds Beichters (Siegfried Beichter)

(Prokūrists - produktu drošība)

## DIKJARAZZJONI TA' PRESTAZZJONI

**Nru 5915508085\_01\_M\_W-VPZ**

- |  |  |
|--|--|
| 1. Kodiċi uniku ta' identifikazzjoni tat-tip ta' prodott:  | Ankra għat-twaħħil Würth W-VPZ<br>Nru tal-oġġett: 5915508085; 5915510090; 5915512095; 5915516095;<br>5915520145; 5915524*; 59151*; 59152*; 59153*; 59154*;<br>5916408110; 5916410130; 5916412160; 5916416190;<br>5915806090; 5915808110; 5915810125; 5915812170; 5915816*;<br>5915906090; 5915908110; 5915910125; 5915912170; 5915916* |
| 2. Użu/i intenzjonat/i:  | Kavilja għat-twaħħil, għall-ankraġġ fil-konkrit  |
| 3. Manifattur:   | Adolf Würth GmbH & Co. KG,<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau   |
| 4. Sistema jew sistemi ta' valutazzjoni u verifika tal-kostanza ta' prestazzjoni:                        | Sistema 1  |
| 5. Dokument Ewropew ta' valutazzjoni:<br>Valutazzjoni Teknika Ewropea:<br>Korp tal-Valutazzjoni Teknika: | EAD 330499-01-0601, Edizzjoni 4/2020<br>ETA-21/0168 - 21/07/2023<br>Deutsches Institut für Bautechnik (Istitut Ġermaniż għat-Teknoloġija tal-Bini)<br>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
<b>Stabbiltà u ebusija mekkanika (BWR 1)</b>		
Reżistenza karatteristika għal stress tensili (tagħbija statika u kwazi statika)	Annessi B2, B3, C1, C2 u C5	ETA-21/0168 EAD 330499-01-0601
Reżistenza karatteristika għal stress transversali (tagħbija statika u kwazi statika)	Annessi C1, C3, C6	
Spostamenti għal stress ta' ħin qasir u ħin twil	Anness C7	
Reżistenza karatteristika għall-kategorija ta' prestazzjoni siżmika C1	Anness C4	
Reżistenza karatteristika u spostamenti għall-kategorija ta' prestazzjoni siżmika C2	Prestazzjoni mhux stabbilita	
<b>Iġjene, saħħa u protezzjoni tal-ambjent (BWR 3)</b>		
Kontenut, emissjoni u/jew rilaxx ta' sustanzi perikolużi	Prestazzjoni mhux stabbilita	

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 fisem il-manifattur minn:

---

Dipl.-Ing. Andreas Heck  
(Kap, Dipartiment tal-Prodotti -  
Teknoloġija tat-Twaħħil)

---

Dr. -Ing. Siegfried Beichter  
(Rapp. Awtorizzat - Sigurtà tal-Prodotti)

Künzelsau, 01/07/2024

## PRESTATIEVERKLARING

Nr. 5915508085\_01\_M\_W-VPZ

1. Eenduidige identificatiecode van het producttype: Würth chemisch anker W-VPZ  
 Art.nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Gebruiksdoel(en): compoundanker voor verankering in beton
3. Fabrikant: Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. Systeem/systemen voor beoordeling en verificatie van de prestatiebestendigheid: System 1
5. Europees beoordelingsdocument: EAD 330499-01-0601, editie 4/2020  
 Europese technische beoordeling: ETA-21/0168 - 21/07/2023  
 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
<b>Mechanische sterkte en stabiliteit (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Karakteristieke weerstand bij trekbelasting (statische en quasi-statische inwerkingen)	Bijlage B2, B3, C1, C2 en C5	
Karakteristieke weerstand bij dwarsbelasting (statische en quasi-statische inwerkingen)	Bijlage C1, C3, C6	
Verschuivingen bij kortstondige en langdurige belasting	Bijlage C7	
Karakteristieke weerstand voor seismische prestatiecategorie C1	Bijlage C4	
Karakteristieke weerstand en verschuivingen voor seismische prestatiecategorie C2	Prestatie niet beoordeeld	
<b>Hygiëne, gezondheid en milieubescherming (BWR 3)</b>		
Inhoud, emissie en / of vrijkomen van gevaarlijke stoffen	Prestatie niet beoordeeld	

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:

---

dipl.-ing. Andreas Heck  
(Hoofd van de afdeling Product Fastening  
Technology)

---

dr.-ing. Siegfried Beichter  
(Procuratiehouder - Productveiligheid)

Künzelsau, 01/07/2024

## YTELSESERKLÆRING

**Nr. 5915508085\_01\_M\_W-VPZ**

1. Entydig kode for produkttypen: Würth koblingsanker W-VPZ  
 Art.nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Bruksområde: Komposittplogg til forankring i betong
3. Produsent: Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. System(er) til vurdering og kontroll av ytelsesbestandigheten: System 1
5. Europeisk vurderingsdokument: EAD 330499-01-0601, Edition 4/2020  
 Europeisk teknisk godkjenning: ETA-21/0168 - 21.07.2023  
 Teknisk vurderingsorgan: Deutsches Institut für Bautechnik (DIBt), 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
<b>Mekanisk fasthet og stabilitet (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Karakteristisk motstand for strekkbelastning (statisk og nesten-statisk belastning)	Vedlegg B2, B3, C1, C2 og C5	
Karakteristisk motstand for tverrbelastning (statisk og nesten-statisk belastning)	Vedlegg C1, C3, C6	
Forskyvninger for kortvarig og langvarig belastning	Vedlegg C7	
Karakteristisk motstand for seismisk kategori C1	Vedlegg C4	
Karakteristisk motstand og forskyvning for seismisk kategori C2	Ytelse ikke vurdert	
<b>Hygiene, helse og miljøvern (BWR 3)</b>		
Innhold, emisjon og/eller utslipp av farlige stoffer	Ytelse ikke vurdert	

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:

---

Dipl.-Ing. Andreas Heck  
(avdelingsleder produkt festeteknikk)

---

Dr.-Ing. Siegfried Beichter  
(Prokurist - produktsikkerhet)

Künzelsau, den 01.07.2024

## DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH

**Nr 5915508085\_01\_M\_W-VPZ**

1. **Niepowtarzalny kod identyfikacyjny typu produktu:** Würth kotwa zespolona W-VPZ  
 Nr artykułu: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. **Przeznaczenie:** kotek rozporowy do kotwienia w betonie
3. **Producent:** Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. **System (systemy) oceny i weryfikacji stałości właściwości użytkowych:** System 1
5. **Europejski dokument oceny:** EAD 330499-01-0601, edycja 4/2020  
**Europejska Ocena Techniczna:** ETA-21/0168 - 21.07.2023 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:**

Zasadnicze charakterystyki	Właściwości użytkowe	Zharmonizowana specyfikacja techniczna
<b>Trwałość mechaniczna i stateczność (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Opór właściwy dla naprężenia rozciągającego (oddziaływania statyczne i quasi statyczne)	Załącznik B2, B3, C1, C2 i C5	
Opór właściwy dla naprężenia poprzecznego (oddziaływania statyczne i quasi statyczne)	Załącznik C1, C3, C6	
Przesunięcia na skutek krótko- i długotrwałego obciążenia	Załącznik C7	
Opór właściwy dla sejsmicznej kategorii właściwości C1	Załącznik C4	
Opór właściwy i przesunięcia dla sejsmicznej kategorii właściwości C2	Nie oceniano właściwości	
<b>Higiena, zdrowie i ochrona środowiska (BWR 3)</b>		
Zawartość, emisja i / lub uwalnianie substancji niebezpiecznych	Nie oceniano właściwości	

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:

---

Dypl. inż. Andreas Heck  
(Kierownik działu produktów, technika  
mocowań)

---

Dr inż. Siegfried Beichter  
(Prokurent – bezpieczeństwo  
produktów)

Künzelsau, dnia 01.07.2024 r.

## DECLARAÇÃO DE DESEMPENHO

**N.º 5915508085\_01\_M\_W-VPZ**

1. **Código de identificação inequívoco do tipo de produto:** Âncora de ligação W-VPZ da Würth  
 N.º art.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. **Fim/fins de utilização:** Cavilha de fixação por aderência para ancoragem em betão
3. **Fabricante:** Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. **Sistema(s) para avaliação e verificação da constância do desempenho:** Sistema 1
5. **Documento de avaliação europeu:** EAD 330499-01-0601, edição 4/2020  
**Avaliação Técnica Europeia:** ETA-21/0168 - 21.07.2023  
**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
<b>Resistência mecânica e estabilidade (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Resistência característica para à tensão de tração (efeitos estáticos e quase estáticos)	Anexos B2, B3, C1, C2 e C5	
Resistência característica à tensão transversal (efeitos estáticos e quase estáticos)	Anexos C1, C3, C6	
Deslocamentos sob esforço a curto prazo e a longo prazo	Anexo C7	
Resistência característica para a categoria de desempenho sísmico C1	Anexo C4	
Resistência e deslocamento característicos para a categoria de desempenho sísmico C2	Desempenho não avaliado	
<b>Higiene, saúde e proteção do ambiente (BWR 3)</b>		
Teor, emissão e/ou libertação de substâncias perigosas	Desempenho não avaliado	

O desempenho do 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 (EU) n.º 305/2011.

Assinado pelo fabricante e em nome do fabricante por:

---

Engenheiro Andreas Heck  
(Diretor do Departamento Tecnologia de  
Fixação de Produtos)

---

Dr. Eng.º Siegfried Beichter  
(Procurador - Segurança do Produto)

Künzelsau, 01.07.2024

## DECLARAȚIE DE PERFORMANȚĂ

**Nr. 5915508085\_01\_M\_W-VPZ**

1. Cod unic de identificare al tipului de produs: Ancoră de legătură Würth W-VD  
 Articol Nr.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Scopul sau scopurile de utilizare: Diblu de îmbinare pentru ancorare în beton
3. Producător: Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. Sistem(e) pentru evaluarea și verificarea constanței performanței: Sistem 1
5. Document european de evaluare: EAD 330499-01-0601, ediția 4/2020  
 Evaluare tehnică europeană: ETA-21/0168 - 21.07.2023  
 Organism de evaluare tehnică: Deutsches Institut für Bautechnik (Institutul German pentru Tehnică de Construcții), (DIBt), Berlin.  
 Organism(e) notificat(e): 2873, Institut für Stahlbau und Werkstoffmechanik (Institutul pentru Construcții din Oțel și Mecanica Materialelor - IFSW), Darmstadt
6. Performanța(e) declarată(e):

Caracteristici esențiale	Performanță	Specificație tehnică armonizată
<b>Rezistență mecanică și stabilitate (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Rezistență caracteristică la solicitare de tracțiune (efecte statice și cvasi-statice)	Anexa B2, B3, C1, C2 și C5	
Rezistență caracteristică la solicitare transversală (efecte statice și cvasi-statice)	Anexa C1, C3, C6	
Deplasări în cazul unei solicitare de scurtă durată și de lungă durată	Anexa C7	
Rezistență caracteristică pentru categoria de performanță seismică C1	Anexa C4	
Rezistență caracteristică și deplasarea pentru categoria de performanță seismică C2	Performanța nu este evaluată	
<b>Igienă, sănătate și protecția mediului înconjurător (BWR 3)</b>		
Conținut, emisie și/sau degajarea de substanțe periculoase	Performanța nu este evaluată	

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

Semnătă pentru și în numele producătorului, de către:

---

Dipl.-Ing. Andreas Heck  
(manager departament Tehnologie de  
fixare)

---

Dr.-Ing. Siegfried Beichter  
(Semnatar autorizat - Siguranța  
produselor)

Künzelsau, data 01.07.2024

## ДЕКЛАРАЦИЯ ХАРАКТЕРИСТИК

№ 5915508085\_01\_M\_W-VPZ

- |   |   |
|---|---|
| 1. Однозначная маркировка типа продукта:  | Фундаментный болт Würth W-VPZ<br>Арт. №: 5915508085; 5915510090; 5915512095; 5915516095;<br>5915520145; 5915524*; 59151*; 59152*; 59153*; 59154*;<br>5916408110; 5916410130; 5916412160; 5916416190;<br>5915806090; 5915808110; 5915810125; 5915812170; 5915816*;<br>5915906090; 5915908110; 5915910125; 5915912170; 5915916* |
| 2. Цель(-и) применения:   | Комбинированный дюбель для анкеровки в бетоне   |
| 3. Изготовитель:  | Adolf Würth GmbH & Co. KG,<br>Reinhold-Würth-Straße 12 - 17<br>D - 74653 Künzelsau  |
| 4. Система(ы) оценки и проверки стабильности характеристик:   | Система 1   |
| 5. Европейский оценочный документ:<br>Европейская техническая оценка:<br>Орган технической оценки:<br>Уполномоченный(-е) орган(-ы): | EAD 330499-01-0601, редакция от 4/2020<br>ETA-21/0168 - 21.07.2023<br>Германский институт строительных технологий (DIBt), Берлин.<br>2873, Институт стальных конструкций и механики материалов (IFSW),<br>Дармштадт   |
| 6. Заявленная(-ые) характеристика(-и):  |   |

Важные признаки	Характеристика	Гармонизированная техническая спецификация
<b>Механическая прочность и устойчивость (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Типичное сопротивление при растяжении (статические и квазистатические воздействия)	Приложения B2, B3, C1, C2 и C5	
Типичное сопротивление при поперечных нагрузках (статические и квазистатические воздействия)	Приложение C1, C3, C6	
Перемещения при кратковременном и длительном нагружении	Приложение C7	
Типичное сопротивление при категориях сейсмической мощности C1	Приложение C4	
Типичное сопротивление и перемещение при категориях сейсмической мощности C2	Характеристика не определена	
<b>Гигиена, здоровье и охрана окружающей среды (BWR 3)</b>		
Состав, эмиссия и/или выделение опасных веществ	Характеристика не определена	

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

Подписано за изготовителя и от имени изготовителя:

---

Д-р-инж. Андреас Хек  
(руководитель отдела технологий  
крепёжа изделий)

---

Д-р-инж. Зигфрид Байхтер  
(прокурисл по безопасности  
продукции)

Кюнцельзау, 01.07.2024

## VYHLÁSENIE O VLASTNOSTIACH

**Č. 5915508085\_01\_M\_W-VPZ**

1. **Jednoznačný identifikačný kód typu výrobku:** Spojená kotva Würth W-VPZ  
 Č. vyr.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. **Účel(y) použitia:** Spojovacie hmoždinky na ukotvenie do betónu
3. **Výrobca:** Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. **Systém (systémy) na posudzovanie a overovanie odolnosti parametrov:** Systém 1
5. **Európsky vyhodnocovací dokument:** EAD 330499-01-0601, Edícia 4/2020  
**Európske technické posúdenie:** ETA-21/0168 - 21.07.2023  
**Orgán pre technické posudzovanie:** Deutsches Institut für Bautechnik (Nemecký inštitút pre stavebnú techniku) (DIBt), Berlín.  
**Notifikovaný orgán (-y):** 2873, Inštitút pre oceľové konštrukcie a mechaniku materiálov (IFSW), Darmstadt
6. **Vlastnosť (vlastnosti) uvedené vo vyhlásení:**

Podstatné znaky	Vlastnosť	Harmonizovaná technická špecifikácia
<b>Mechanická pevnosť a stabilita (BWR 1)</b>		ETA-21/0168 EAD 330499-01-0601
Charakteristická odolnosť pre ťahové namáhanie (statické a kvázi-statické účinky)	Príloha B2, B3, C1, C2 a C5	
Charakteristická odolnosť pre priečne namáhanie (statické a kvázi-statické účinky)	Príloha C1, C3, C6	
Posuny pri krátkodobom a dlhodobom zaťažení	Príloha C7	
Charakteristická odolnosť pre seizmickú kategóriu výkonu C1	Príloha C4	
Charakteristická odolnosť a posuny pre seizmickú kategóriu výkonu C2	Vlastnosť nie je hodnotená	
<b>Hygiena, ochrana zdravia a životného prostredia (BWR 3)</b>		
Obsah, emisie a/alebo uvoľňovanie nebezpečných látok	Vlastnosť nie je hodnotená	

Vlastnosť vyššie uvedeného produktu zodpovedá vyhlásenej vlastnosti/vyhláseným vlastnostiam. Za zhotovenie vyhlásenia o parametroch v súlade s Nariadením (EÚ) č. 305/2011 je zodpovedný výhradne hore uvedený výrobca.

Podpísané pre výrobcu a v mene výrobcu:

---

Dipl.-Ing. Andreas Heck  
(vedúci oddelenia výrobkov pre  
upevňovacie techniku)

---

Dr. -Ing. Siegfried Beichter  
(Prokurista - bezpečnosť výrobkov)

Künzelsau, dňa 01.07.2024

**IZJAVA O LASTNOSTIH**  
**Št. 5915508085\_01\_M\_W-VPZ**

1. Enotna identifikacijska oznaka tipa izdelka: Povezovalno sidro Würth W-VPZ  
 Št. art.: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Nameni uporabe: Lepljeni mozni za sidranje v beton
3. Proizvajalec: Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau, Nemčija
4. Sistemi za vrednotenje in preverjanje trajnosti lastnosti: Sistem 1
5. Evropski ocenjevalni dokument: EAD 330499-01-0601, izdaja 4/2020  
 Evropsko tehnično vrednotenje: ETA-21/0168 - 21. 7. 2023  
 Organ, ki je opravil tehnično vrednotenje: Deutsches Institut für Bautechnik (DIBt), Berlin.  
 Priglašeni organi: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Navedene lastnosti:

Bistvene značilnosti	Lastnost	Harmonizirana tehnična specifikacija
<b>Mehanska odpornost in stabilnost (BWR 1)</b>		
Značilna odpornost za potezno obremenitev (statični in kvazistatični učinki)	Priloga B2, B3, C1, C2 in C5	ETA-21/0168 EAD 330499-01-0601
Značilna odpornost za prečno obremenitev (statični in kvazistatični učinki)	Priloga C1, C3, C6	
Premikanje pri kratkotrajni in dolgotrajni obremenitvi	Priloga C7	
Značilna odpornost in premik pri seizmičnih obremenitvah (kategorija zmogljivosti C1)	Priloga C4	
Značilna odpornost in premik pri seizmičnih obremenitvah (kategorija zmogljivosti C2)	Lastnost ni ocenjena	
<b>Higiena, zdravje in varovanje okolja (BWR 3)</b>		
Vsebnost, izpusti in/ali sproščanje nevarnih snovi	Lastnost ni ocenjena	

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:

---

Dipl.-Ing. Andreas Heck  
(vodja oddelka za tehnologijo  
pritrjevanja izdelkov)

---

Dr. -Ing. Siegfried Beichter  
(prokurist - varnost izdelkov)

Künzelsau, 1. 7. 2024

## PRESTANDEKLARATION

Nr 5915508085\_01\_M\_W-VPZ

1. **Produkttypens unika identifikationskod:** Würth ankarstäng W-VPZ  
 Art.nr: 5915508085; 5915510090; 5915512095; 5915516095;  
 5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
 5916408110; 5916410130; 5916412160; 5916416190;  
 5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
 5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. **Användningsändamål:** Ankarplugg för förankring i betong
3. **Tillverkare:** Adolf Würth GmbH & Co. KG,  
 Reinhold-Würth-Straße 12 - 17  
 D - 74653 Künzelsau
4. **System för bedömning och kontroll av prestandabeständighet:** System 1
5. **Europeiskt bedömningsdokument:** EAD 330499-01-0601, Edition 4/2020  
**Europeisk teknisk bedömning:** ETA-21/0168 - 2023-07-21  
**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
<b>Mekanisk hållfasthet och stabilitet (BWR 1)</b>		
Karakteristiskt motstånd vid dragpåkänning (statisk och kvasistatisk påverkan):	Bilaga B2, B3, C1, C2 och C5	ETA-21/0168 EAD 330499-01-0601
Karakteristiskt motstånd vid tvärbelastning (statisk och kvasistatisk påverkan)	Bilaga C1, C3, C6	
Förskjutningar för korttids- och långtidspåverkan	Bilaga C7	
Karakteristiskt motstånd för seismisk prestandakategori C1	Bilaga C4	
Karakteristiskt motstånd och förskjutning för seismisk prestandakategori C2	Prestanda ej bedömd	
<b>Hygien, hälsa och miljöskydd (BWR 3)</b>		
Innehåll, emission och/eller frisättning av farliga ämnen	Prestanda ej bedömd	

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:

---

Civ.ing. Andreas Heck  
(Avdelningschef produkt fästteknik)

---

Dr.-ing. Siegfried Beichter  
(Prokurist - produktsäkerhet)

Künzelsau, 2024-07-01

## PERFORMANS AÇIKLAMASI

No. 5915508085\_01\_M\_W-VPZ

1. Ürün tipinin belirgin karakteristik kodu: Würth bileşik ankraj W-VPZ  
Ürün No.: 5915508085; 5915510090; 5915512095; 5915516095;  
5915520145; 5915524\*; 59151\*; 59152\*; 59153\*; 59154\*;  
5916408110; 5916410130; 5916412160; 5916416190;  
5915806090; 5915808110; 5915810125; 5915812170; 5915816\*;  
5915906090; 5915908110; 5915910125; 5915912170; 5915916\*
2. Kullanım amacı (amaçları): Betona ankrılamak için bileşik dübel
3. Üretici: Adolf Würth GmbH & Co. KG,  
Reinhold-Würth-Straße 12 - 17  
D - 74653 Künzelsau
4. Performans dayanıklılığının değerlendirilmesi ve kontrol edilmesi için sistem (sistemler): Sistem 1:
5. Avrupa değerlendirme belgesi: EAD 330499-01-0601, baskı 4/2020  
Avrupa teknik değerlendirmesi: ETA-21/0168 - 21.07.2023  
Teknik değerlendirme kuruluşu: Deutsches Institut für Bautechnik (DIBt), Berlin.  
Onaylanmış kuruluş (kuruluşlar): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Beyan edilmiş hizmet (hizmetler):

Önemli özellikler	Güç	Uyumlaştırılmış teknik şartname
<b>Mekanik mukavemet ve duruş güvenliği (BWR 1)</b>		
Çekme gerilimi için karakteristik direnç (statik ve yarı statik etkiler)	Ek B2, B3, C1, C2 ve C5	ETA-21/0168 EAD 330499-01-0601
Kesme yükü için karakteristik direnç (statik ve yarı statik etkiler)	Ek C1, C3, C6	
Kısa ve uzun süreli zorlanma için ertelemeler	Ek C7	
Sismik performans kategorisi C1 için karakteristik direnç	Ek C4	
Sismik performans kategorisi C2 için karakteristik direnç ve ertelemeler	Performans değerlendirilmedi	
<b>Hijyen, sağlık ve çevre koruma (BWR 3)</b>		
Tehlikeli maddelerin içeriği, emisyonu ve/veya açığa çıkması	Performans değerlendirilmedi	

Yukarıdaki ürünün performansı beyan edilen performansa/performanslara karşılık gelmektedir. Performans beyanının (AB) No. 305/2011 düzenlemesi ile uyumluluk halinde hazırlanmasından sadece yukarıda adı geçen üretici sorumludur.

Üretici adına ve üretici tarafından imzalanmıştır:

---

Yüksek Mühendis Andreas Heck  
(Ürün sabitleme teknolojisi departman  
yöneticisi)

---

Dr. Müh. Siegfried Beichter  
(İmza yetkilisi - Ürün güvenliği)

Künzelsau, Tarih 01.07.2024