

**DECLARATION OF PERFORMANCE**  
**NR. LE\_0904411065\_04\_M\_W-FA(1)**

**LANGUAGE VERSIONS :**

| Language         | Site |
|------------------|------|
| EN               | 2    |
| ETA-02/0001 (EN) | 3    |
| BG               | 18   |
| CZ               | 19   |
| DA               | 20   |
| DE               | 21   |
| ES               | 22   |
| ET               | 23   |
| FI               | 24   |
| FR               | 25   |
| GA               | 26   |
| GR               | 27   |
| HR               | 28   |
| HU               | 29   |
| IT               | 30   |
| LT               | 31   |
| LV               | 32   |
| MT               | 33   |
| NL               | 34   |
| NO               | 35   |
| PL               | 36   |
| PT               | 37   |
| RO               | 38   |
| RU               | 39   |
| SE               | 40   |
| SK               | 41   |
| SL               | 42   |
| TR               | 43   |

## DECLARATION OF PERFORMANCE

**Nr. LE\_0904411065\_04\_M\_W-FA(1)**

This is an English translation of the original German wording.

In cases of doubt, the German version applies.

- |                                                                          |                                                                                                                                                                                                      |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Unique identification code of the product type:                       | Würth Fixanchor W-FA<br>Art.-No. 09044*; 59320*; 59321*; 59322*; 59323*; 59324*; 59329*<br>Excluded are following Art.-Nr. 0904411061; 5932006040;<br>5932008050; 5932010060; 5932012075; 5932906040 |
| 2. Intended use(s):                                                      | Mechanical fastener for use in concrete                                                                                                                                                              |
| 3. Manufactured by:                                                      | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                      |
| 4. System(s) of assessment and verification of constancy of performance: | System 1                                                                                                                                                                                             |
| 5. European Assessment Document:                                         | EAD 330232-01-0601, Edition 12/2019                                                                                                                                                                  |
| European Technical Assessment:                                           | ETA-02/0001 - 03/02/2021                                                                                                                                                                             |
| Technical Assessment Body:                                               | Deutsches Institut für Bautechnik (DIBt), Berlin                                                                                                                                                     |
| Notified Body or Bodies:                                                 | 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt                                                                                                                                  |
| 6. Declared performance(s):                                              |                                                                                                                                                                                                      |

| Essential Characteristics                                                                | Performance             | Harmonised Technical Specification                    |
|------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Mechanical resistance and stability (BWR 1)                                              |                         | ETA-02/0001<br>EAD 330232-01-0601,<br>Edition 12/2019 |
| Characteristic resistance to tension load (static and quasi static action) Method A      | See Annex B4, C1 and C2 |                                                       |
| Characteristic resistance to shear load (static and quasi static action)                 | See Annex C3            |                                                       |
| Displacements and Durability                                                             | See Annex C4 and B1     |                                                       |
| Characteristic resistance and displacements for seismic performance categories C1 and C2 | No performance assessed |                                                       |
| Safety in case of fire (BWR 2)                                                           |                         |                                                       |
| Reaction to fire                                                                         | Class A1                |                                                       |
| Resistance to fire                                                                       | No performance assessed |                                                       |

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

Signed for and on behalf of the manufacturer by:

Original signed by:

Frank Wolpert

Authorized Signatory, Head of Market Division

Künzelsau, 24/03/2023

Original signed by:

Dr. -Ing. Siegfried Beichter

Authorized Signatory, Head of Quality

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-02/0001**  
**of 2 February 2021**

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Würth Fixanchor W-FA

Product family  
to which the construction product belongs

Mechanical fastener for use in concrete

Manufacturer

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

Manufacturing plant

Werk 1

This European Technical Assessment  
contains

15 pages including 3 annexes which form an integral part  
of this assessment

This European Technical Assessment is  
issued in accordance with Regulation (EU)  
No 305/2011, on the basis of

EAD 330232-01-0601, Edition 12/2019

This version replaces

ETA-02/0001 issued on 10 August 2017

**European Technical Assessment**

**ETA-02/0001**

English translation prepared by DIBt

**Page 2 of 15 | 2 February 2021**

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## Specific Part

### 1 Technical description of the product

The Würth Fixanchor W-FA is a fastener made of zinc coated steel or stainless steel which is placed into a drilled hole and anchored by application of the installation torque.  
The product description is given in Annex A.

### 2 Specification of the intended use in accordance with the applicable European Assessment Document

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.  
The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the anchor of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

### 3 Performance of the product and references to the methods used for its assessment

#### 3.1 Mechanical resistance and stability (BWR 1)

| Essential characteristic                                                                 | Performance             |
|------------------------------------------------------------------------------------------|-------------------------|
| Characteristic resistance to tension load (static and quasi static action) Method A      | See Annex B4, C1 and C2 |
| Characteristic resistance to shear load (static and quasi static action)                 | See Annex C3            |
| Displacements and Durability                                                             | See Annex C4 and B1     |
| Characteristic resistance and displacements for seismic performance categories C1 and C2 | No performance assessed |

#### 3.2 Safety in case of fire (BWR 2)

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

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

In accordance with the European Assessment Document EAD 330232-01-0601 the applicable European legal act is: [96/582/EC].  
The system to be applied is: 1

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

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

Issued in Berlin on 2 February 2021 by Deutsches Institut für Bautechnik

Dipl.-Ing. Beatrix Wittstock  
Head of Section

*beglaubigt:*  
Baderschneider

## Würth Wedge Anchor W-FA/S , W-FA/F , W-FA/SH , W-FA/A2 , W-FA/A4 , W-FA/HCR

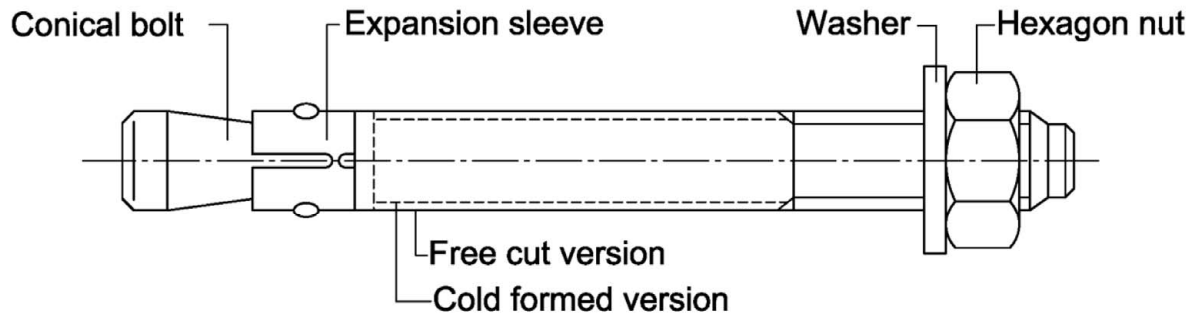


Table A1: Dimensions

| Anchor size | Anchor length L                                                      |                                                                      |                                                                      | Wrench size [SW] |
|-------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|------------------|
|             | Embedment depth $h_{ef,1}$                                           | Embedment depth $h_{ef,2}$                                           | Embedment depth $h_{ef,3}$                                           |                  |
| M6          | $t_{fix,hef,1} + 47,4$                                               | $t_{fix,hef,2} + 57,4$                                               | $t_{fix,hef,3} + 77,4$                                               | 10               |
| M8          | $t_{fix,hef,1} + 57,4$                                               | $t_{fix,hef,2} + 66,4$                                               | $t_{fix,hef,3} + 92,4$                                               | 13               |
| M10         | $t_{fix,hef,1} + 68,0$                                               | $t_{fix,hef,2} + 74,0$                                               | $t_{fix,hef,3} + 106,0$                                              | 17               |
| M12         | $t_{fix,hef,1} + 82,3$                                               | $t_{fix,hef,2} + 97,3$                                               | $t_{fix,hef,3} + 132,3$                                              | 19               |
| M16         | $t_{fix,hef,1} + 103,0$<br>( $t_{fix,hef,1} + 101,8$ ) <sup>1)</sup> | $t_{fix,hef,2} + 121,0$<br>( $t_{fix,hef,2} + 117,8$ ) <sup>1)</sup> | $t_{fix,hef,3} + 159,0$<br>( $t_{fix,hef,3} + 157,8$ ) <sup>1)</sup> | 24               |
| M20         | $t_{fix,hef,1} + 120,7$                                              | $t_{fix,hef,2} + 142,7$                                              | $t_{fix,hef,3} + 157,7$                                              | 30               |

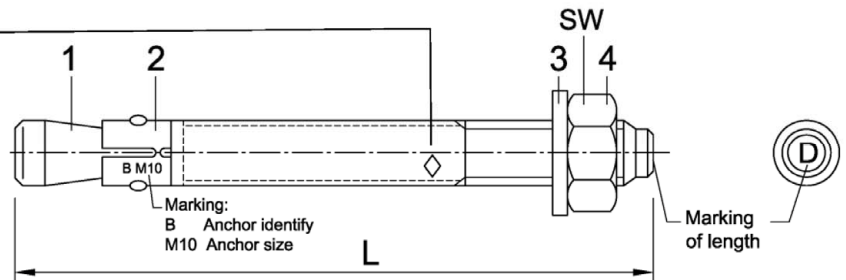
<sup>1)</sup> Anchor version W-FA/A2 , W-FA/A4 , W-FA/HCR

Marking: e.g.:  $\diamond 15/21$

- $\diamond$  Identifying mark of manufacturing plant
- 15 maximum thickness of fixture for  $h_{ef,2}$
- 21 maximum thickness of fixture for  $h_{ef,1}$

additional marking:

- A2 stainless steel
- A4 stainless steel
- HCR high corrosion resistant steel



| Marking of length           | A    | B    | C    | D    | E     | F     | G     | H     | I     | J     | K     | L     | M     |
|-----------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Length of anchor min $\geq$ | 38,1 | 50,8 | 63,5 | 76,2 | 88,9  | 101,6 | 114,3 | 127,0 | 139,7 | 152,4 | 165,1 | 177,8 | 190,5 |
| Length of anchor max $<$    | 50,8 | 63,5 | 76,2 | 88,9 | 101,6 | 114,3 | 127,0 | 139,7 | 152,4 | 165,1 | 177,8 | 190,5 | 203,2 |

| Marking of length           | N     | O     | P     | Q     | R     | S     | T     | U     | V     | W     | X     | Y     | Z     |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Length of anchor min $\geq$ | 203,2 | 215,9 | 228,6 | 241,3 | 254,0 | 279,4 | 304,8 | 330,2 | 355,6 | 381,0 | 406,4 | 431,8 | 457,2 |
| Length of anchor max $<$    | 215,9 | 228,6 | 241,3 | 254,0 | 279,4 | 304,8 | 330,2 | 355,6 | 381,0 | 406,4 | 431,8 | 457,2 | 483,0 |

Dimensions in mm

## Würth Fixanchor W-FA

Product description  
Marking and Dimensions

Annex A1

**Table A2: Materials**

| Part            | Designation           | Material                                                                                                        |
|-----------------|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| W-FA/S          | electroplated         | $\geq 5 \mu\text{m}$ acc. to EN ISO 4042:1999                                                                   |
| W-FA/F          | hot-dip<br>galvanized | $\geq 40 \mu\text{m}$ (in average $50 \mu\text{m}$ ) acc. to EN ISO 10684:2011 or EN ISO 1461:2009              |
| W-FA/SH         | sherardized           | $\geq 45 \mu\text{m}$ acc. to EN ISO 17668:2016                                                                 |
| 1               | Conical bolt          | Cold formed or machined steel                                                                                   |
| 2               | Expansion sleeve      | Stainless steel according CRC II <sup>1)</sup> , acc. to EN 10088:2014                                          |
| 3               | Washer                | Steel, zinc plated                                                                                              |
| 4               | Hexagon nut           | Property class 8 acc. to EN ISO 898-2:2012                                                                      |
| <b>W-FA/A2</b>  |                       |                                                                                                                 |
| 1               | Conical bolt          | Stainless steel according CRC II <sup>1)</sup> , coated                                                         |
| 2               | Expansion sleeve      | Stainless steel according CRC II <sup>1)</sup> , acc. to EN 10088:2014                                          |
| 3               | Washer                | Stainless steel according CRC II <sup>1)</sup>                                                                  |
| 4               | Hexagon nut           | Stainless steel according CRC II <sup>1)</sup> , property class 70, coated,<br>EN ISO 3506-2:2009               |
| <b>W-FA/A4</b>  |                       |                                                                                                                 |
| 1               | Conical bolt          | Stainless steel according CRC III <sup>1)</sup> , coated                                                        |
| 2               | Expansion sleeve      | Stainless steel according CRC II <sup>1)</sup> or CRC III <sup>1)</sup> , acc. to EN 10088:2014                 |
| 3               | Washer                | Stainless steel according CRC III <sup>1)</sup>                                                                 |
| 4               | Hexagon nut           | Stainless steel according CRC III <sup>1)</sup> , property class 70, coated,<br>EN ISO 3506-2:2009              |
| <b>W-FA/HCR</b> |                       |                                                                                                                 |
| 1               | Conical bolt          | Stainless steel according CRC V <sup>1)</sup> , coated                                                          |
| 2               | Expansion sleeve      | Stainless steel according CRC III <sup>1)</sup> , acc. to EN 10088:2014                                         |
| 3               | Washer                | Stainless steel according CRC V <sup>1)</sup>                                                                   |
| 4               | Hexagon nut           | Stainless steel according CRC V <sup>1)</sup> , property class 70, coated,<br>EN ISO 3506-2:2009, EN 10088:2014 |

<sup>1)</sup> Corrosion resistance class according to EN 1993-1-4:2015, Annex A, Table A.3

**Würth Fixanchor W-FA**

**Product description**  
Materials

**Annex A2**



## Specifications of intended use

| Würth Fixanchor W-FA |                                | M6 | M8 | M10 | M12 | M16 | M20 |
|----------------------|--------------------------------|----|----|-----|-----|-----|-----|
| W-FA/S               | electroplated                  | ✓  | ✓  | ✓   | ✓   | ✓   | ✓   |
| W-FA/F               | hot-dip galvanized             | -  | ✓  | ✓   | ✓   | ✓   | ✓   |
| W-FA/SH              | sherardized                    | ✓  | ✓  | ✓   | ✓   | ✓   | ✓   |
| W-FA/A2              | stainless steel                | ✓  | ✓  | ✓   | ✓   | ✓   | ✓   |
| W-FA/A4              | stainless steel                | ✓  | ✓  | ✓   | ✓   | ✓   | ✓   |
| W-FA/HCR             | high corrosion resistant steel | ✓  | ✓  | ✓   | ✓   | ✓   | ✓   |
| All versions         | static or quasi-static action  | ✓  |    |     |     |     |     |
|                      | uncracked concrete             | ✓  |    |     |     |     |     |

### Base materials:

- Compacted reinforced or unreinforced normal weight concrete without fibres according to EN 206:2013 + A1:2016
- Strength classes C20/25 to C50/60 according to EN 206:2013 + A1:2016

### Use conditions (Environmental conditions):

- Structures subject to dry internal conditions (all materials)
- For all other conditions:

| Anchor version | Use according to EN 1993-1-4:2015 corresponding to the corrosion resistance class CRC according to Annex A, Table A.2 |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| W-FA/A2        | CRC II                                                                                                                |
| W-FA/A4        | CRC III                                                                                                               |
| W-FA/HCR       | CRC V                                                                                                                 |

### Design:

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

### Installation:

- Fastener installation carried out by appropriately qualified personnel and under the obligation of the person responsible for technical matters on site.
- Hole drilling by hammer drill bit or vacuum drill bit
- Use of the fastener only as supplied by the manufacturer without exchanging the components of the fastener

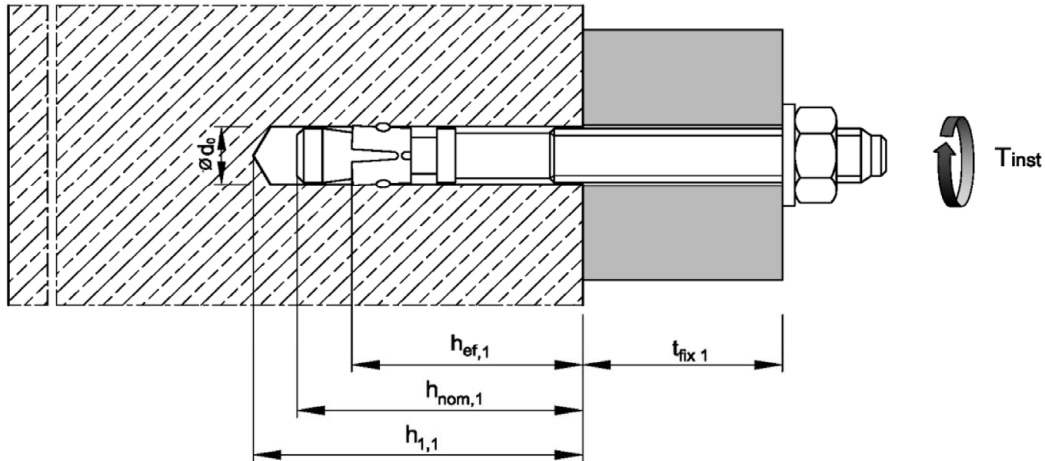
## Würth Fixanchor W-FA

Intended use  
Specifications

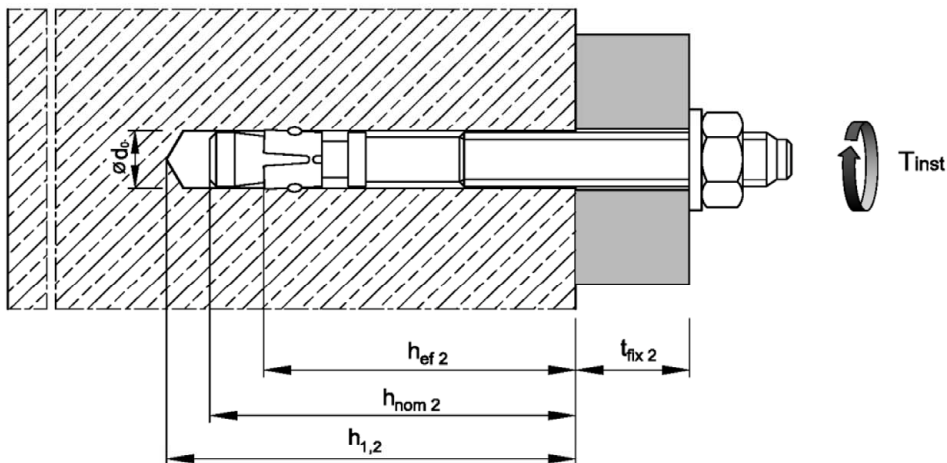
Annex B1

## Installation parameters

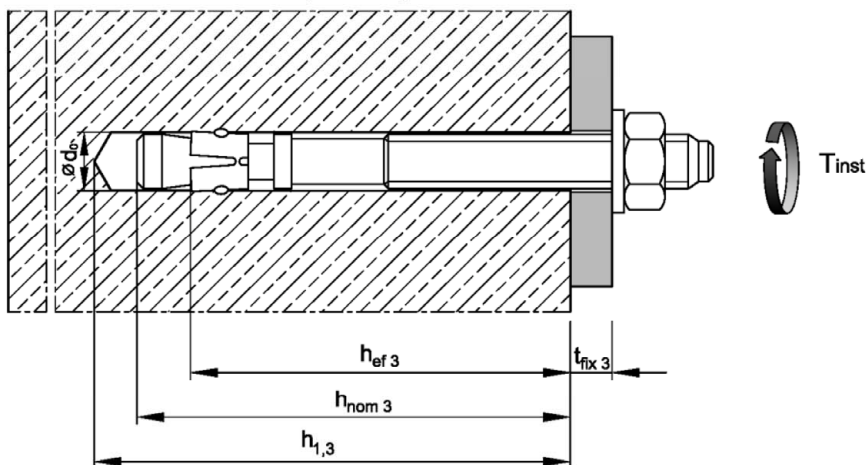
### Effective embedment depths $h_{ef,1}$



### Effective embedment depths $h_{ef,2}$



### Effective embedment depths $h_{ef,3}$



## Würth Fixanchor W-FA

Intended use  
Installation parameters

Annex B2

**Table B1: Installation parameters**

| Anchor size                                               |                                 |                   | M6   | M8   | M10   | M12  | M16                   | M20   |
|-----------------------------------------------------------|---------------------------------|-------------------|------|------|-------|------|-----------------------|-------|
| Nominal drill hole diameter $d_0 =$ [mm]                  |                                 |                   | 6    | 8    | 10    | 12   | 16                    | 20    |
| Cutting diameter of drill bit $d_{cut} \leq$ [mm]         |                                 |                   | 6,40 | 8,45 | 10,45 | 12,5 | 16,5                  | 20,55 |
| Installation torque                                       | W-FA/S                          | $T_{inst} =$ [Nm] | 8    | 15   | 30    | 50   | 100                   | 200   |
|                                                           | W-FA/F                          | $T_{inst} =$ [Nm] | -    | 15   | 30    | 40   | 90                    | 120   |
|                                                           | W-FA/SH                         | $T_{inst} =$ [Nm] | 5    | 15   | 30    | 40   | 90                    | 120   |
|                                                           | W-FA/A2 , W-FA/A4 ,<br>W-FA/HCR | $T_{inst} =$ [Nm] | 6    | 15   | 25    | 50   | 100                   | 160   |
| Diameter of clearance hole in the fixture $d_f \leq$ [mm] |                                 |                   | 7    | 9    | 12    | 14   | 18                    | 22    |
| <b>Embedment depth <math>h_{ef,1}</math></b>              |                                 |                   |      |      |       |      |                       |       |
| Effective embedment depth $h_{ef,1} \geq$ [mm]            |                                 |                   | 30   | 35   | 42    | 50   | 64                    | 78    |
| Depth of drill hole $h_{1,1} \geq$ [mm]                   |                                 |                   | 45   | 55   | 65    | 75   | 95                    | 110   |
| Embedment depth $h_{nom,1} \geq$ [mm]                     |                                 |                   | 39   | 47   | 56    | 67   | 84                    | 99    |
| <b>Embedment depth <math>h_{ef,2}</math></b>              |                                 |                   |      |      |       |      |                       |       |
| Effective embedment depth $h_{ef,2} \geq$ [mm]            |                                 |                   | 40   | 44   | 48    | 65   | 82 (80) <sup>1)</sup> | 100   |
| Depth of drill hole $h_{1,2} \geq$ [mm]                   |                                 |                   | 55   | 65   | 70    | 90   | 110                   | 130   |
| Embedment depth $h_{nom,2} \geq$ [mm]                     |                                 |                   | 49   | 56   | 62    | 82   | 102                   | 121   |
| <b>Embedment depth <math>h_{ef,3}</math></b>              |                                 |                   |      |      |       |      |                       |       |
| Effective embedment depth $h_{ef,3} \geq$ [mm]            |                                 |                   | 60   | 70   | 80    | 100  | 120                   | 115   |
| Depth of drill hole $h_{1,3} \geq$ [mm]                   |                                 |                   | 75   | 91   | 102   | 125  | 148                   | 145   |
| Embedment depth $h_{nom,3} \geq$ [mm]                     |                                 |                   | 69   | 82   | 94    | 117  | 140                   | 136   |

<sup>1)</sup> Anchor version W-FA/A2 , W-FA/A4 , W-FA/HCR

**Würth Fixanchor W-FA**

Intended use  
Installation data

**Annex B3**

**Table B2: Minimum spacings and edge distances for W-FA/S , W-FA/F<sup>1)</sup> , W-FA/SH**

| Anchor size                                  |           |      | M6  | M8  | M10 | M12 | M16 | M20 |
|----------------------------------------------|-----------|------|-----|-----|-----|-----|-----|-----|
| <b>Embedment depth <math>h_{ef,1}</math></b> |           |      |     |     |     |     |     |     |
| Minimum member thickness                     | $h_{min}$ | [mm] | 80  | 80  | 100 | 100 | 130 | 160 |
| Minimum spacing                              | $s_{min}$ | [mm] | 35  | 40  | 55  | 100 | 100 | 140 |
| Minimum edge distance                        | $c_{min}$ | [mm] | 40  | 45  | 65  | 100 | 100 | 140 |
| <b>Embedment depth <math>h_{ef,2}</math></b> |           |      |     |     |     |     |     |     |
| Minimum member thickness                     | $h_{min}$ | [mm] | 100 | 100 | 100 | 130 | 170 | 200 |
| Minimum spacing                              | $s_{min}$ | [mm] | 35  | 40  | 55  | 75  | 90  | 105 |
| Minimum edge distance                        | $c_{min}$ | [mm] | 40  | 45  | 65  | 90  | 105 | 125 |
| <b>Embedment depth <math>h_{ef,3}</math></b> |           |      |     |     |     |     |     |     |
| Minimum member thickness                     | $h_{min}$ | [mm] | 120 | 126 | 132 | 165 | 208 | 215 |
| Minimum spacing                              | $s_{min}$ | [mm] | 35  | 40  | 55  | 75  | 90  | 105 |
| Minimum edge distance                        | $c_{min}$ | [mm] | 40  | 45  | 65  | 90  | 105 | 125 |

<sup>1)</sup> Anchor version W-FA/F: M8-M20

**Table B3: Minimum spacings and edge distances for W-FA/A2 , W-FA/A4 , W-FA/HCR**

| Anchor size                                  |              |      | M6  | M8  | M10 | M12 | M16 | M20 |
|----------------------------------------------|--------------|------|-----|-----|-----|-----|-----|-----|
| <b>Embedment depth <math>h_{ef,1}</math></b> |              |      |     |     |     |     |     |     |
| Minimum member thickness                     | $h_{min}$    | [mm] | 80  | 80  | 100 | 100 | 130 | 160 |
| Minimum spacing                              | $s_{min}$    | [mm] | 35  | 60  | 55  | 100 | 110 | 140 |
| Minimum edge distance                        | $c_{min}$    | [mm] | 40  | 60  | 65  | 100 | 110 | 140 |
| <b>Embedment depth <math>h_{ef,2}</math></b> |              |      |     |     |     |     |     |     |
| Minimum member thickness                     | $h_{min}$    | [mm] | 100 | 100 | 100 | 130 | 160 | 200 |
| Minimum spacing                              | $s_{min}$    | [mm] | 35  | 35  | 45  | 60  | 80  | 100 |
|                                              | for $c \geq$ | [mm] | 40  | 65  | 70  | 100 | 120 | 150 |
| Minimum edge distance                        | $c_{min}$    | [mm] | 35  | 45  | 55  | 70  | 80  | 100 |
|                                              | for $s \geq$ | [mm] | 60  | 110 | 80  | 100 | 140 | 180 |
| <b>Embedment depth <math>h_{ef,3}</math></b> |              |      |     |     |     |     |     |     |
| Minimum member thickness                     | $h_{min}$    | [mm] | 120 | 126 | 132 | 165 | 200 | 215 |
| Minimum spacing                              | $s_{min}$    | [mm] | 35  | 35  | 45  | 60  | 80  | 100 |
|                                              | for $c \geq$ | [mm] | 40  | 65  | 70  | 100 | 120 | 150 |
| Minimum edge distance                        | $c_{min}$    | [mm] | 35  | 45  | 55  | 70  | 80  | 100 |
|                                              | for $s \geq$ | [mm] | 60  | 110 | 80  | 100 | 140 | 180 |

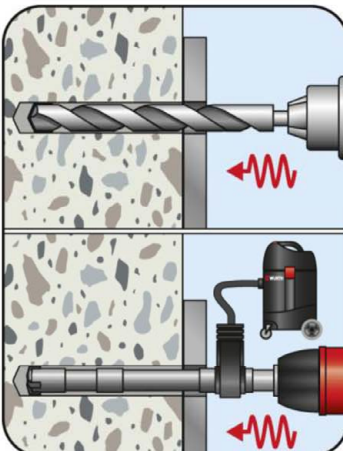
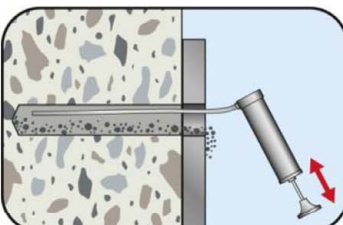
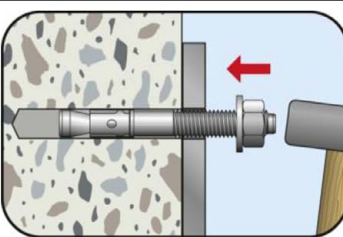
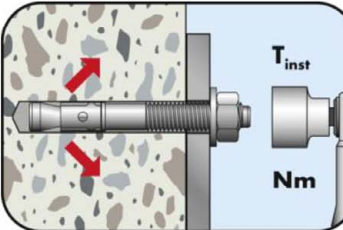
Intermediate values by linear interpolation

**Würth Fixanchor W-FA**

**Intended use**  
Minimum spacings and edge distances

**Annex B4**

## Installation instructions

|   |                                                                                     |                                                                                                                                                                               |
|---|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 |    | <p>Drill hole perpendicular to concrete surface, positioning of the drill holes without damaging the reinforcement.<br/>If using a vacuum drill bit, proceed with step 3.</p> |
| 2 |   | <p>Blow out dust. Alternatively, vacuum clean down to the bottom of the hole.</p>                                                                                             |
| 3 |  | <p>Drive in anchor, such that the selected embedment depth is met.</p>                                                                                                        |
| 4 |  | <p>Apply installation torque <math>T_{inst}</math> as specified in Table B1.</p>                                                                                              |

### Würth Fixanchor W-FA

Intended use  
Installation instructions

Annex B5

**Table C1:** Characteristic values for **tension loads for W-FA/S , W-FA/F<sup>1)</sup> , W-FA/SH**

| Anchor size                                                  |                     |                 |                  | M6                                              | M8                 | M10  | M12                                     | M16                                     | M20                                    |
|--------------------------------------------------------------|---------------------|-----------------|------------------|-------------------------------------------------|--------------------|------|-----------------------------------------|-----------------------------------------|----------------------------------------|
| Installation factor                                          |                     | $\gamma_{inst}$ | [-]              | 1,0                                             |                    |      |                                         |                                         |                                        |
| Steel failure                                                |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Characteristic resistance                                    |                     | $N_{Rk,s}$      | [kN]             | 8,7                                             | 15,3               | 26   | 35                                      | 65                                      | 107                                    |
| Partial factor                                               |                     | $\gamma_{Ms}$   | [-]              | 1,5                                             |                    |      |                                         | 1,6                                     |                                        |
| Pull-out                                                     |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Characteristic resistance<br>in uncracked concrete<br>C20/25 | for $h_{ef,1}$      | $N_{Rk,p}$      | [kN]             | 6,5 <sup>2)</sup>                               | 10,2 <sup>2)</sup> | 13,4 | 17,4                                    | 25,2                                    | 33,9                                   |
|                                                              | for $h_{ef,2}$      | $N_{Rk,p}$      | [kN]             | 10                                              | 13                 | 16,4 | 25,8                                    | 36,5                                    | 49,2                                   |
|                                                              | for $h_{ef,3}$      | $N_{Rk,p}$      | [kN]             | 10                                              | 13                 | 16,4 | 26                                      | 40                                      | 55                                     |
| Increasing factor for $N_{Rk,p}$                             |                     | $\psi_C$        | [-]              | $\left(\frac{f_{ck}}{20}\right)^{0,5}$          |                    |      | $\left(\frac{f_{ck}}{20}\right)^{0,29}$ | $\left(\frac{f_{ck}}{20}\right)^{0,33}$ | $\left(\frac{f_{ck}}{20}\right)^{0,5}$ |
| Splitting                                                    |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Characteristic resistance<br>in uncracked concrete C20/25    |                     | $N^0_{Rk,sp}$   | [kN]             | min [ $N_{Rk,p}$ ; $N^0_{Rk,c}$ <sup>3)</sup> ] |                    |      |                                         |                                         |                                        |
| Embedment depth $h_{ef,1}$                                   |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Spacing                                                      |                     | $S_{cr,sp}$     | [mm]             | 180                                             | 210                | 230  | 240                                     | 320                                     | 400                                    |
| Edge distance                                                |                     | $C_{cr,sp}$     | [mm]             | 90                                              | 105                | 115  | 120                                     | 160                                     | 200                                    |
| Embedment depth $h_{ef,2}$                                   |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Spacing                                                      |                     | $S_{cr,sp}$     | [mm]             | 160                                             | 220                | 240  | 330                                     | 410                                     | 500                                    |
| Edge distance                                                |                     | $C_{cr,sp}$     | [mm]             | 80                                              | 110                | 120  | 165                                     | 205                                     | 250                                    |
| Embedment depth $h_{ef,3}$                                   |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Spacing                                                      |                     | $S_{cr,sp}$     | [mm]             | 360                                             | 240                | 480  | 600                                     | 720                                     | 690                                    |
| Edge distance                                                |                     | $C_{cr,sp}$     | [mm]             | 180                                             | 210                | 240  | 300                                     | 360                                     | 345                                    |
| Concrete cone failure                                        |                     |                 |                  |                                                 |                    |      |                                         |                                         |                                        |
| Effective embedment depth                                    | for $h_{ef,1} \geq$ | [mm]            | 30 <sup>2)</sup> | 35 <sup>2)</sup>                                | 42                 | 50   | 64                                      | 78                                      |                                        |
|                                                              | for $h_{ef,2} \geq$ | [mm]            | 40               | 44                                              | 48                 | 65   | 82                                      | 100                                     |                                        |
|                                                              | for $h_{ef,3} \geq$ | [mm]            | 60               | 70                                              | 80                 | 100  | 120                                     | 115                                     |                                        |
| Spacing                                                      |                     | $S_{cr,N}$      | [mm]             | 3 $h_{ef}$ (1,2,3)                              |                    |      |                                         |                                         |                                        |
| Edge distance                                                |                     | $C_{cr,N}$      | [mm]             | 1,5 $h_{ef}$ (1,2,3)                            |                    |      |                                         |                                         |                                        |
| Factor                                                       | uncracked concrete  | $k_{ucr,N}$     | [-]              | 11,0                                            |                    |      |                                         |                                         |                                        |
|                                                              | cracked concrete    | $k_{cr,N}$      | [-]              | No performance assessed                         |                    |      |                                         |                                         |                                        |

<sup>1)</sup> Anchor version W-FA/F: M8-M20

<sup>2)</sup> Restricted to the use of structural components with  $h_{ef} < 40\text{mm}$  which are statically indeterminate and subject to internal exposure conditions only

<sup>3)</sup>  $N^0_{Rk,c}$  according to EN 1992-4:2018

## Würth Fixanchor W-FA

### Performance

Characteristic values for **tension loads for W-FA/S , W-FA/F , W-FA/SH**

## Annex C1

**Table C2:** Characteristic values for **tension loads** for **W-FA/A2** , **W-FA/A4** , **W-FA/HCR**

| Anchor size                                                                   |                     |                 |                  | M6                                              | M8              | M10  | M12  | M16  | M20  |
|-------------------------------------------------------------------------------|---------------------|-----------------|------------------|-------------------------------------------------|-----------------|------|------|------|------|
| Installation factor                                                           |                     | $\gamma_{inst}$ | [-]              | 1,0                                             |                 |      |      |      |      |
| Steel failure                                                                 |                     |                 |                  |                                                 |                 |      |      |      |      |
| Characteristic resistance                                                     |                     | $N_{Rk,s}$      | [kN]             | 10                                              | 18              | 30   | 44   | 88   | 134  |
| Partial factor                                                                |                     | $\gamma_{Ms}$   | [-]              | 1,50                                            |                 |      |      |      |      |
| Pull-out                                                                      |                     |                 |                  |                                                 |                 |      |      |      |      |
| Characteristic resistance in uncracked concrete C20/25                        | for $h_{ef,1}$      | $N_{Rk,p}$      | [kN]             | 6,5 <sup>1)</sup>                               | 9 <sup>1)</sup> | 12   | 17,4 | 25,2 | 33,9 |
|                                                                               | for $h_{ef,2}$      | $N_{Rk,p}$      | [kN]             | 8                                               | 15              | 16,4 | 25   | 35,2 | 49,2 |
|                                                                               | for $h_{ef,3}$      | $N_{Rk,p}$      | [kN]             | 8                                               | 15              | 16,4 | 25   | 42   | 60   |
| Increasing factor for $N_{Rk,p}$                                              |                     | $\psi/C$        | [-]              | $\left(\frac{f_{ck}}{20}\right)^{0,5}$          |                 |      |      |      |      |
| Splitting                                                                     |                     |                 |                  |                                                 |                 |      |      |      |      |
| Characteristic resistance in uncracked concrete C20/25                        |                     | $N^0_{Rk,sp}$   | [kN]             | min [ $N_{Rk,p}$ ; $N^0_{Rk,c}$ <sup>2)</sup> ] |                 |      |      |      |      |
| Embedment depth $h_{ef,1}$                                                    |                     |                 |                  |                                                 |                 |      |      |      |      |
| Spacing                                                                       |                     | $S_{cr,sp}$     | [mm]             | 180                                             | 180             | 180  | 180  | 180  | 180  |
| Edge distance                                                                 |                     | $C_{cr,sp}$     | [mm]             | 90                                              | 90              | 90   | 90   | 90   | 90   |
| Embedment depth $h_{ef,2}$                                                    |                     |                 |                  |                                                 |                 |      |      |      |      |
| The higher one of the decisive resistances of Case 1 and Case 2 is applicable |                     |                 |                  |                                                 |                 |      |      |      |      |
| Case 1                                                                        |                     |                 |                  |                                                 |                 |      |      |      |      |
| Characteristic resistance in uncracked concrete C20/25                        |                     | $N^0_{Rk,sp}$   | [kN]             | 6                                               | 9               | 12   | 20   | 30   | 40   |
| Spacing                                                                       |                     | $S_{cr,sp}$     | [mm]             | 3 $h_{ef}$                                      |                 |      |      |      |      |
| Edge distance                                                                 |                     | $C_{cr,sp}$     | [mm]             | 1,5 $h_{ef}$                                    |                 |      |      |      |      |
| Increasing factor for $N^0_{Rk,sp}$                                           |                     | $\psi/C$        | [-]              | $\left(\frac{f_{ck}}{20}\right)^{0,5}$          |                 |      |      |      |      |
| Case 2                                                                        |                     |                 |                  |                                                 |                 |      |      |      |      |
| Spacing                                                                       |                     | $S_{cr,sp}$     | [mm]             | 160                                             | 220             | 240  | 340  | 410  | 560  |
| Edge distance                                                                 |                     | $C_{cr,sp}$     | [mm]             | 80                                              | 110             | 120  | 170  | 205  | 280  |
| Embedment depth $h_{ef,3}$                                                    |                     |                 |                  |                                                 |                 |      |      |      |      |
| Spacing                                                                       |                     | $S_{cr,sp}$     | [mm]             | 360                                             | 240             | 480  | 600  | 720  | 690  |
| Edge distance                                                                 |                     | $C_{cr,sp}$     | [mm]             | 180                                             | 210             | 240  | 300  | 360  | 345  |
| Concrete cone failure                                                         |                     |                 |                  |                                                 |                 |      |      |      |      |
| Effective Embedment depth                                                     | for $h_{ef,1} \geq$ | [mm]            | 30 <sup>1)</sup> | 35 <sup>1)</sup>                                | 42              | 50   | 64   | 78   |      |
|                                                                               | for $h_{ef,2} \geq$ | [mm]            | 40               | 44                                              | 48              | 65   | 80   | 100  |      |
|                                                                               | for $h_{ef,3} \geq$ | [mm]            | 60               | 70                                              | 80              | 100  | 120  | 115  |      |
| Spacing                                                                       |                     | $S_{cr,N}$      | [mm]             | 3 $h_{ef}$                                      |                 |      |      |      |      |
| Edge distance                                                                 |                     | $C_{cr,N}$      | [mm]             | 1,5 $h_{ef}$                                    |                 |      |      |      |      |
| Factor                                                                        | uncracked concrete  | $k_{ucr,N}$     | [-]              | 11,0                                            |                 |      |      |      |      |
|                                                                               | cracked concrete    | $k_{cr,N}$      | [-]              | No performance assessed                         |                 |      |      |      |      |

<sup>1)</sup> Restricted to the use of structural components with  $h_{ef} < 40\text{mm}$  which are statically indeterminate and subject to internal exposure conditions only

<sup>2)</sup>  $N^0_{Rk,c}$  according to EN 1992-4:2018

## Würth Fixanchor W-FA

### Performance

Characteristic values for **tension loads** for **W-FA/A2** , **W-FA/A4** , **W-FA/HCR**

## Annex C2



**Table C3:** Characteristic values for **shear loads**

| Anchor size                                                    |                                         |                      |                        | M6               | M8               | M10 | M12 | M16                      | M20 |    |
|----------------------------------------------------------------|-----------------------------------------|----------------------|------------------------|------------------|------------------|-----|-----|--------------------------|-----|----|
| Installation factor                                            |                                         |                      | $\gamma_{\text{inst}}$ | [-]              | 1,0              |     |     |                          |     |    |
| Steel failure without lever arm                                |                                         |                      |                        |                  |                  |     |     |                          |     |    |
| Characteristic resistance                                      | W-FA/S , W-FA/F <sup>1)</sup> , W-FA/SH | $V^0_{\text{Rk,s}}$  | [kN]                   | 5                | 11               | 17  | 25  | 44                       | 69  |    |
|                                                                | W-FA/A2 , W-FA/A4 , W-FA/HCR            | $V^0_{\text{Rk,s}}$  | [kN]                   | 7                | 12               | 19  | 27  | 50                       | 86  |    |
| Ductility factor                                               |                                         |                      | $k_7$                  | [-]              | 1,0              |     |     |                          |     |    |
| Steel failure with lever arm                                   |                                         |                      |                        |                  |                  |     |     |                          |     |    |
| Characteristic bending resistance                              | W-FA/S , W-FA/F <sup>1)</sup> , W-FA/SH | $M^0_{\text{Rk,s}}$  | [Nm]                   | 9                | 23               | 45  | 78  | 186                      | 363 |    |
|                                                                | W-FA/A2 , W-FA/A4 , W-FA/HCR            | $M^0_{\text{Rk,s}}$  | [Nm]                   | 10               | 24               | 49  | 85  | 199                      | 454 |    |
| Partial factor for $V^0_{\text{Rk,s}}$ and $M^0_{\text{Rk,s}}$ | W-FA/S , W-FA/F <sup>1)</sup> , W-FA/SH | $\gamma_{\text{Ms}}$ | [-]                    | 1,25             |                  |     |     | 1,33                     |     |    |
|                                                                | W-FA/A2 , W-FA/A4 , W-FA/HCR            | $\gamma_{\text{Ms}}$ | [-]                    | 1,25             |                  |     |     |                          | 1,4 |    |
| Concrete pry-out failure                                       |                                         |                      |                        |                  |                  |     |     |                          |     |    |
| Factor for $h_{\text{ef}}$                                     | W-FA , W-FA/F <sup>1)</sup> , W-FA/SH   | $k_8$                | [-]                    | 1,0              | 2,3              | 2,5 | 2,9 | 2,8                      | 3,1 |    |
|                                                                | W-FA/A2 , W-FA/A4 , W-FA/HCR            | $k_8$                | [-]                    | 1,0              | 2,3              | 2,8 | 2,8 | 3,0                      | 3,3 |    |
| Concrete edge failure                                          |                                         |                      |                        |                  |                  |     |     |                          |     |    |
| Effective length of anchor in shear loading                    | for $h_{\text{ef},1}$                   | $l_f$                | [mm]                   | 30 <sup>2)</sup> | 35 <sup>2)</sup> | 42  | 50  | 64                       | 78  |    |
|                                                                | for $h_{\text{ef},2}$                   | $l_f$                | [mm]                   | 40               | 44               | 48  | 65  | 82<br>(80) <sup>3)</sup> | 100 |    |
|                                                                | for $h_{\text{ef},3}$                   | $l_f$                | [mm]                   | 60               | 70               | 80  | 100 | 120                      | 115 |    |
| Outside diameter of anchor                                     |                                         |                      | $d_{\text{nom}}$       | [mm]             | 6                | 8   | 10  | 12                       | 16  | 20 |

<sup>1)</sup> Anchor version W-FA/F: M8-M20

<sup>2)</sup> Restricted to the use of structural components which are statically indeterminate and subject to internal exposure conditions only

<sup>3)</sup> Anchor version W-FA/A2 , W-FA/A4 , W-FA/HCR

**Würth Fixanchor W-FA**

**Performance**  
Characteristic values for **shear loads**

**Annex C3**



**Table C5: Displacements under tension loads**

| Anchor size                               |                    |      | M6  | M8  | M10 | M12  | M16  | M20  |
|-------------------------------------------|--------------------|------|-----|-----|-----|------|------|------|
| Embedment depth $h_{ef,1}$                |                    |      |     |     |     |      |      |      |
| W-FA/S , W-FA/F <sup>1)</sup> , W-FA/SH   |                    |      |     |     |     |      |      |      |
| Tension load                              | N                  | [kN] | 2,9 | 5,0 | 6,5 | 8,5  | 12,3 | 16,6 |
| Displacement                              | $\delta_{N0}$      | [mm] | 0,3 | 0,4 |     |      |      |      |
|                                           | $\delta_{N\infty}$ | [mm] | 0,6 | 1,8 |     |      |      |      |
| W-FA/A2 , W-FA/A4 , W-FA/HCR              |                    |      |     |     |     |      |      |      |
| Tension load                              | N                  | [kN] | 2,9 | 4,3 | 5,7 | 8,5  | 12,3 | 16,6 |
| Displacement                              | $\delta_{N0}$      | [mm] | 0,4 | 0,7 | 0,4 | 0,4  | 0,6  | 1,5  |
|                                           | $\delta_{N\infty}$ | [mm] | 1,3 |     |     |      |      | 2,9  |
| Embedment depth $h_{ef,2}$ and $h_{ef,3}$ |                    |      |     |     |     |      |      |      |
| W-FA/S , W-FA/F <sup>1)</sup> , W-FA/SH   |                    |      |     |     |     |      |      |      |
| Tension load                              | N                  | [kN] | 4,3 | 5,8 | 7,6 | 11,9 | 16,7 | 23,8 |
| Displacement                              | $\delta_{N0}$      | [mm] | 0,4 | 0,5 |     |      |      |      |
|                                           | $\delta_{N\infty}$ | [mm] | 0,7 | 2,3 |     |      |      |      |
| W-FA/A2 , W-FA/A4 , W-FA/HCR              |                    |      |     |     |     |      |      |      |
| Tension load                              | N                  | [kN] | 3,6 | 5,7 | 7,6 | 11,9 | 17,2 | 24,0 |
| Displacement                              | $\delta_{N0}$      | [mm] | 0,7 | 0,9 | 0,5 | 0,6  | 0,9  | 2,1  |
|                                           | $\delta_{N\infty}$ | [mm] | 1,8 |     |     |      |      | 4,2  |

<sup>1)</sup> Anchor version W-FA/F: M8-M20

**Table C6: Displacements under shear loads**

| Anchor size                                   |                    |      | M6  | M8  | M10  | M12  | M16  | M20  |
|-----------------------------------------------|--------------------|------|-----|-----|------|------|------|------|
| <b>W-FA/S , W-FA/F<sup>1)</sup> , W-FA/SH</b> |                    |      |     |     |      |      |      |      |
| Shear load                                    | V                  | [kN] | 2,9 | 6,3 | 9,7  | 14,3 | 23,6 | 37,0 |
| Displacement                                  | $\delta_{V0}$      | [mm] | 1,2 | 1,5 | 1,6  | 2,6  | 3,1  | 4,4  |
|                                               | $\delta_{V\infty}$ | [mm] | 2,4 | 2,2 | 2,4  | 3,9  | 4,6  | 6,6  |
| <b>W-FA/A2 , W-FA/A4 , W-FA/HCR</b>           |                    |      |     |     |      |      |      |      |
| Shear load                                    | V                  | [kN] | 4,0 | 6,9 | 10,9 | 15,4 | 28,6 | 43,7 |
| Displacement                                  | $\delta_{V0}$      | [mm] | 1,1 | 2,0 | 1,2  | 2,0  | 2,2  | 2,1  |
|                                               | $\delta_{V\infty}$ | [mm] | 1,7 | 3,0 | 1,8  | 3,0  | 3,3  | 3,2  |

<sup>1)</sup> Anchor version W-FA/F: M8-M20

**Würth Fixanchor W-FA**

**Performance**  
Displacements

**Annex C4**

## ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

№ LE\_0904411065\_04\_M\_W-FA(1)

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

- |                                                                                       |                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Уникален идентификационен код на типа на продукта:                                 | Würth Fixanker W-FA (Würth фиксиращ анкер W-FA)<br>Арт. № 09044*; 59320*; 59321*; 59322*; 59323*; 59324*; 59329*<br>Изключени са следните Арт. № 0904411061; 5932006040;<br>5932008050; 5932010060; 5932012075; 5932906040 |
| 2. Предвидена употреба/употреби:                                                      | Механичен дюбел за използване в бетон                                                                                                                                                                                      |
| 3. Производител:                                                                      | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                                            |
| 4. Система (и) за оценка и проверка на постоянството на експлоатационните показатели: | Система 1                                                                                                                                                                                                                  |
| 5. Европейски документ за оценяване:                                                  | EAD 330232-01-0601, издание 12/2019                                                                                                                                                                                        |
| Европейска техническа оценка:                                                         | ETA-02/0001 - 03.02.2021 г.                                                                                                                                                                                                |
| Орган за техническа оценка:                                                           | Deutsches Institut für Bautechnik (DIBt), Berlin                                                                                                                                                                           |
| Нотифициран(и) орган(и):                                                              | 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt                                                                                                                                                        |
| 6. Деклариран(и) експлоатационен(и) показател(и):                                     |                                                                                                                                                                                                                            |

| Основни характеристики                                                                              | Експлоатационни показатели                | Хармонизирана техническа спецификация                 |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| Механична якост и устойчивост (BWR 1)                                                               |                                           | ETA-02/0001<br>EAD 330232-01-0601,<br>издание 12/2019 |
| Характерни съпротивления на натоварване на опън (статични и квазистатични товари) Метод А           | Вижте приложение В4, С1 и С2              |                                                       |
| Характерни съпротивления при напречно натоварване (статични и квазистатични товари)                 | Вижте приложение С3                       |                                                       |
| Изместване и устойчивост                                                                            | Вижте приложение С4 и В1                  |                                                       |
| Характерни съпротивления и изместване за сеизмична категория експлоатационни характеристики С1 и С2 | Експлоатационният показател не е оценяван |                                                       |
| Противопожарна защита (BWR 2)                                                                       |                                           |                                                       |
| Реакция на огън                                                                                     | Клас А1                                   |                                                       |
| Огнеустойчивост                                                                                     | 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:

В оригинал подписана от:

Франк Волперт

(Прокурист - мениджър Пазар)

Кюнцелзау, 24.3.2023 г.

В оригинал подписана от:

Д-р. инж. Зигфрид Байхтер

(Прокурист мениджър Качество)

**PROHLÁŠENÍ O VLASTNOSTECH****Č. LE\_0904411065\_04\_M\_W-FA(1)**

Toto je překlad německého originálního textu. V případě pochybností platí originální německé znění

1. Jednoznačný identifikační kód typu výrobku: Pevná kotva W-FA Würth  
Č. výr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Výjimkou jsou č. výr. 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
2. Zamýšlené/zamýšlená použití: Mechanická hmoždinka k použití v betonu
3. Výrobce: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Systém 1
4. Systém(y) pro hodnocení a kontrolu stálosti vlastností: Systém 1
5. Evropský dokument pro posuzování:  
Evropské technické schválení: EAD 330232-01-0601, vydání 12/2019  
ETA-02/0001 - 03. 02. 2021  
Pracoviště pro technické posuzování: Deutsches Institut für Bautechnik, Berlin (DIBt, Německý institut pro stavební techniku v Berlíně)  
Oznámený subjekt/oznámené subjekty: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Deklarovaná vlastnost/deklarované vlastnosti:

| Podstatné charakteristické vlastnosti                                                    | Vlastnost                | Harmonizovaná technická specifikace                  |
|------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------|
| Mechanická pevnost a stálost (BWR 1)                                                     |                          | ETA-02/0001<br>EAD 330232-01-0601,<br>vydání 12/2019 |
| Charakteristické odolnosti při namáhání tahem (statické a kvazistatické zátěže) metoda A | Viz přílohu B4, C1 a C2  |                                                      |
| Charakteristické odolnosti při příčném namáhání (statické a kvazistatické zátěže)        | Viz přílohu C3           |                                                      |
| Posun a trvanlivost                                                                      | Viz přílohu C4 a B1      |                                                      |
| Charakteristické odolnosti a posun pro seizmickou kategorii C1 a C2                      | Vlastnosti nevyhodnoceny |                                                      |
| Požární ochrana (BWR 2)                                                                  |                          |                                                      |
| Reakce na oheň                                                                           | Třída A1                 |                                                      |
| Požární odolnost                                                                         | Vlastnosti nevyhodnoceny |                                                      |

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

Podepsal za výrobce a jeho jménem:

V originále podepsal:

Frank Wolpert

(zmocněnec – ředitel oddělení trhu)

V originále podepsal:

Dr.-Ing. Siegfried Beichter

(zmocněnec – ředitel oddělení jakosti)

Künzelsau, 24. 03. 2023

**YDEEVNEDEKLARATION****Nr. LE\_0904411065\_04\_M\_W-FA(1)**

Dette er en oversættelse af den tyske originaltekst. I tvivlstilfælde er den tyske version gældende

1. **Produkttypens entydige identifikationskode:** Würth Fixanker W-FA  
Art.-nr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Undtaget herfra er efterfølgende art.-nr. 0904411061; 5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. **Anvendelsesformål:** Mekanisk dyvel til brug i beton
3. **Producent:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. **System(er) til bedømmelse og kontrol af ydeevnebestandigheden:** System 1
5. **Europæisk vurderingsdokument:** EAD 330232-01-0601, Edition 12/2019  
**Europæisk teknisk bedømmelse:** ETA-02/0001 - 03-02-2021  
**Teknisk evalueringsmyndighed:** Deutsches Institut für Bautechnik (DIBt), Berlin  
**Notificeret myndighed/notificerede myndigheder:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. **Deklareret ydeevne/deklarerede ydeevner:**

| Væsentlige egenskaber                                                                       | Ydeevne                   | Harmoniseret teknisk specifikation                    |
|---------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------|
| <b>Mekanisk modstandsdygtighed og stabilitet (BWR 1)</b>                                    |                           | ETA-02/0001<br>EAD 330232-01-0601,<br>Edition 12/2019 |
| Karakteristiske modstande under trækbelastning (statiske og kvasi-statiske laster) metode A | Se appendiks B4, C1 og C2 |                                                       |
| Karakteristiske modstande under tværgående belastning (statiske og kvasi-statiske laster)   | Se appendiks C3           |                                                       |
| Forskydning og holdbarhed                                                                   | Se appendiks C4 og B1     |                                                       |
| Karakteristiske modstande og forskydning til seismisk effektkategori C1 og C2               | Ingen ydeevne evalueret   |                                                       |
| <b>Brandsikkerhed (BWR 2)</b>                                                               |                           |                                                       |
| Brandreaktion                                                                               | Klasse A1                 |                                                       |
| Brandmodstand                                                                               | Ingen ydeevne evalueret   |                                                       |

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

Underskrevet for og på vegne af producenten af:

Originalen underskrevet af:

Frank Wolpert

(Prokurist – Leder af  
markedsafdelingen)

Originalen underskrevet af:

Dr.-ing. Siegfried Beichter

(Prokurist – Leder af kvalitetsafdelingen)

Künzelsau, den 24.03.2023

## LEISTUNGSERKLÄRUNG

**Nr. LE\_0904411065\_04\_M\_W-FA(1)**

1. Eindeutiger Kenncode des Produkttyps: Würth Fixanker W-FA  
Art.-Nr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Ausgenommen sind nachstehende Art.-Nr. 0904411061; 5932006040;  
5932008050; 5932010060; 5932012075; 5932906040
2. Verwendungszweck(e): Mechanischer Dübel zur Verwendung im Beton
3. Hersteller: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit: System 1
5. Europäisches Bewertungsdokument: EAD 330232-01-0601, Edition 12/2019  
Europäische Technische Bewertung: ETA-02/0001 - 03.02.2021  
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-02/0001<br>EAD 330232-01-0601,<br>Edition 12/2019 |
| Charakteristische Widerstände unter Zugbeanspruchung (statische und quasi-statische Lasten) Methode A | Siehe Anhang B4, C1 und C2 |                                                       |
| Charakteristische Widerstände unter Querbeanspruchung (statische und quasi-statische Lasten)          | Siehe Anhang C3            |                                                       |
| Verschiebung und Dauerhaftigkeit                                                                      | Siehe Anhang C4 und B1     |                                                       |
| Charakteristische Widerstände und Verschiebung für die seismische Leistungskategorie C1 und C2        | Keine Leistung bewertet    |                                                       |
| <b>Brandschutz (BWR 2)</b>                                                                            |                            |                                                       |
| Brandverhalten                                                                                        | Klasse A1                  |                                                       |
| Feuerwiderstand                                                                                       | Keine Leistung 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:

Im Original unterschrieben von:

Frank Wolpert

(Prokurist – Bereichsleiter Produktmanagement, Divisionen und Marketing)

Künzelsau, den 16.03.2022

Im Original unterschrieben von:

Dr. -Ing. Siegfried Beichter

(Prokurist - Leiter Qualität und Produktsicherheit)

**DECLARACIÓN DE PRESTACIONES****N.º LE\_0904411065\_04\_M\_W-FA(1)**

Este documento es la traducción del texto original en alemán. En caso de duda, se aplica la versión original en alemán.

1. Código de identificación única del producto tipo: Anclaje rápido Würth W-FA  
N.º art. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Quedan exceptuados los n.º de art. siguientes 0904411061; 5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. Uso(s) previsto(s): Taco mecánico para uso en hormigón
3. Fabricante: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. Sistema(s) de evaluación y verificación de la constancia de las prestaciones: Sistema 1
5. Documento de evaluación europeo: EAD 330232-01-0601, edición 12/2019  
Evaluación Técnica Europea: ETA-02/0001 - del 03/02/2021  
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                    | Especificaciones técnicas armonizadas                 |
|-------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------|
| <b>Resistencia mecánica y estabilidad (BWR 1)</b>                                                     |                               | ETA-02/0001<br>EAD 330232-01-0601,<br>edición 12/2019 |
| Resistencias características bajo esfuerzo de tracción (cargas estáticas o cuasiestáticas) - Método A | Véanse los anexos B4, C1 y C2 |                                                       |
| Resistencias características bajo esfuerzo transversal (cargas estáticas o cuasiestáticas)            | Véase el anexo C3             |                                                       |
| Desplazamiento y durabilidad                                                                          | Véanse los anexos C4 y B1     |                                                       |
| Resistencias características y desplazamiento para las categorías de actividad sísmicas C1 y C2       | No es una prestación evaluada |                                                       |
| <b>Protección contra incendios (BWR 2)</b>                                                            |                               |                                                       |
| Reacción al fuego                                                                                     | Clase A1                      |                                                       |
| Resistencia al fuego                                                                                  | No es una prestación 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:

Firmante del original:

Frank Wolpert

(Apoderado - Director de área de mercado)

Künzelsau, el 24/03/2023

Firmante del original:

Dr. -Ing. Siegfried Beichter

(Apoderado - Director de Calidad)

**TOIMIVUSDEKLARATSIOON****Nr LE\_0904411065\_04\_M\_W-FA(1)**

See on tõlge saksakeelsest originaaltekstist. Kahtluste korral kehtib saksakeelne originaalversioon

1. Tootetüübi kordumatu identifitseerimiskood: Würth kinnitusankur W-FA  
Art.-nr 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Välja arvatud järgmised art.-nr 0904411061; 5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. Ettenähtud kasutusotstarve või -otstarbed: Mehaaniline tüübel kasutamiseks betoonis
3. Tootja: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Süsteem 1
4. Toimivuse püsivuse hindamise ja kontrolli süsteem(id):
5. Euroopa hindamisdokument: EAD 330232-01-0601, 12/2019  
Euroopa tehniline hinnang: ETA-02/0001, 3.02.2021  
Tehnilise hindamise asutus: Deutsches Institut für Bautechnik (DIBt), Berliin  
Teavitatud asutus(ed): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Deklareeritud toimivus(ed):

| Põhiomadused                                                                               | Toimivus                  | Ühtlustatud tehniline kirjeldus               |
|--------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------|
| <b>Mehaaniline tugevus ja vastupidavus (BWR 1)</b>                                         |                           | ETA-02/0001<br>EAD 330232-01-0601,<br>12/2019 |
| Iseloomulikud vastupanud tõmbejõule (staatiliselt ja poolstaatiliselt koormused)m meetod A | Vt lisa B4, C1 ja C2      |                                               |
| Iseloomulikud vastupanud külgiõu all (staatiliselt ja poolstaatiliselt koormused)          | Vt lisa C3                |                                               |
| Nihe ja vastupidavus                                                                       | Vt lisa C4 ja B1          |                                               |
| Iseloomulikud vastupanud ja nihe seismiliste toimivuskategooriate C1 ja C2 jaoks           | Toimivust ei ole hinnatud |                                               |
| <b>Tulekaitse (BWR 2)</b>                                                                  |                           |                                               |
| Tuletundlikkus                                                                             | Klass A1                  |                                               |
| Tuletakistus                                                                               | Toimivust ei ole hinnatud |                                               |

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

Tootja poolt ja nimel allkirjastanud:

Originaali allkirjastanud:

Frank Wolpert

(prokurist – turu valdkonna juht)

Originaali allkirjastanud:

Dr. ins. Siegfried Beichter

(prokurist-kvaliteedijuht)

Künzelsau, 24.03.2024

**SUORITUSTASOILMOITUS****Nro LE\_0904411065\_04\_M\_W-FA(1)**

Tämä on käännös saksankielisestä alkuperäistekstistä. Epäilyksissä pätee alkuperäinen saksankielinen teksti

1. Tuotetyypin yksilöllinen tunnistus: Würth kiila-ankkuri W-FA  
Tuotenro 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Lukuun ottamatta seuraavat tuotenrot 0904411061; 5932006040;  
5932008050; 5932010060; 5932012075; 5932906040
2. Aiottu käyttötarkoitus (aiotut käyttötarkoitukset): Mekaaninen ankkuri käytettäväksi betonissa
3. Valmistaja: Adolf Würth GmbH & Co. KG  
Reinhold- Würth-Str. 12 - 17  
D - 74653 Künzelsau, Saksa  
Järjestelmä 1
4. Suoritusarvioinnin ja tarkistamisen järjestelmä(t):
5. Eurooppalainen arviointidokumentti: EAD 330232-01-0601, julkaisu 12/2019  
Eurooppalainen tekninen arviointi: ETA-02/0001- 3.02.2021  
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 suoritusarvio/ilmoitetut suoritusarvot:

| Perusominaisuudet                                                                           | Suoritusarvio               | Yhdenmukaistetut tekniset eritelmät                    |
|---------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------|
| Mekaaninen lujuus ja vakaus (BWR 1)                                                         |                             | ETA-02/0001<br>EAD 330232-01-0601,<br>julkaisu 12/2019 |
| Ominaisvastukset vetokuormituksessa (staattiset ja kvasistaattiset vaikutukset) menetelmä A | Katso liitteet B4, C1 ja C2 |                                                        |
| Ominaisvastus poikittaiskuormituksessa (staattiset ja kvasistaattiset vaikutukset)          | Katso liite C3              |                                                        |
| Siirtymä ja kestävyys                                                                       | Katso liitteet C4 ja B1     |                                                        |
| Ominaisvastus ja siirtymä seismisille teholuokille C1 ja C2                                 | Suoritusarvot ei määritetty |                                                        |
| Palosuoja (BWR 2)                                                                           |                             |                                                        |
| Palokäyttäytyminen                                                                          | Luokka A1                   |                                                        |
| Palonkestävyys                                                                              | Suoritusarvot ei määritetty |                                                        |

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

Valmistajan puolesta allekirjoittanut:

Alkuperäisen asiakirjan allekirjoittanut:

Frank Wolpert

(Prokuristi - markkinapäällikkö)

Alkuperäisen asiakirjan allekirjoittanut:

TkT Siegfried Beichter

(Prokuristi - laadunjohtaja)

Künzelsau, 24.03.2023



## DÉCLARATION DE PERFORMANCES

**N° LE\_0904411065\_04\_M\_W-FA(1)**

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

- |                                                                                  |                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Code d'identification unique du produit type :                                | Ancre fixe Würth W-FA<br>N° de réf. 09044*; 59320*; 59321*; 59322*; 59323*; 59324*; 59329*<br>Sauf les n° de réf. ci-après 0904411061; 5932006040; 5932008050;<br>5932010060; 5932012075; 5932906040 |
| 2. Usage(s) prévu(s) :                                                           | Cheville mécanique à utiliser dans le béton                                                                                                                                                          |
| 3. Fabricant :                                                                   | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                      |
| 4. Système(s) d'évaluation et de vérification de la constance des performances : | Système 1                                                                                                                                                                                            |
| 5. Document d'évaluation européen :                                              | EAD 330232-01-0601, édition 12/2019                                                                                                                                                                  |
| Évaluation technique européenne :                                                | ETA-02/0001 - 03/02/2021                                                                                                                                                                             |
| Organisme d'évaluation technique :                                               | Deutsches Institut für Bautechnik (DIBt), Berlin                                                                                                                                                     |
| Organisme(s) notifié(s) :                                                        | 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt                                                                                                                                  |
| 6. Performance(s) déclarée(s) :                                                  |                                                                                                                                                                                                      |

| Caractéristiques essentielles                                                                              | Performance                   | Spécification technique harmonisée                    |
|------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------|
| Résistance mécanique et stabilité verticale (BWR 1)                                                        |                               | ETA-02/0001<br>EAD 330232-01-0601,<br>édition 12/2019 |
| Résistances caractéristiques sous contrainte de traction (charges statiques et quasi-statiques), méthode A | Voir les annexes B4, C1 et C2 |                                                       |
| Résistances caractéristiques sous contrainte transversale (charges statiques et quasi-statiques)           | Voir annexe C3                |                                                       |
| Déplacement et durabilité                                                                                  | Voir les annexes C4 et B1     |                                                       |
| Résistances caractéristiques et déplacement pour la catégorie de performance sismique C1 et C2             | Pas de performance évaluée    |                                                       |
| Protection incendie (BWR 2)                                                                                |                               |                                                       |
| Réaction au feu                                                                                            | Classe A1                     |                                                       |
| Résistance au feu                                                                                          | Pas de performance 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 :

Original signé par :

Frank Wolpert

(Fondé de pouvoir – Directeur  
domaine Marché)

Original signé par :

Dr. -Ing. Siegfried Beichter

(Fondé de pouvoir – Directeur Qualité)

Künzelsau, le 24/03/2023

## DEARBHÚ FEIDHMÍOCHTA

Uimh. LE\_0904411065\_04\_M\_W-FA(1)

Is aistriúchán é seo ar an mbuntéacs Gearmáinise. I gcásanna amhrais, tá feidhm ag an mbunleagan Gearmáinise

- Cód aitheantais uathúil an chineáil táirge:** Ancaire Daingnithe W-FA  
Uimh. Earra 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Seachas na hearraí seo a leanas Uimh. 0904411061; 5932006040;  
5932008050; 5932010060; 5932012075; 5932906040
- Úsáid(i) b(h)eartaithe:** Ancaire meicniúil le húsáid i gcoincreit
- Déantúsóir:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Córas 1
- Córa(i)s chun seasmhacht feidhmíochta a mheas agus a scrúdú:**
- Doiciméad Measúnaithe Eorpach:** EAD 330232-01-0601, Eagrán 12/2019  
**Measúnú Teicniúil Eorpach:** ETA-02/0001 - 03/02/2021  
**Ionad Measúnaithe Teicniúil:** Deutsches Institut für Bautechnik, DIBt (Ionad Teicniocht Tógála na Gearmáine), Beirlín  
**Ionad(i) dá dtugtar fógra:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Institiúid um Fhoirgníocht Chruach agus Meicniocht Ábhair (IFSW), Darmstadt
- Feidhmíocht(aí) d(h)earbhaithe:**

| Príomhthréithe                                                                                           | Feidhmíocht                       | Sonraíocht theicniúil chomhchuibhithe                |
|----------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------|
| Friotaíocht agus Cobhsaíocht Mheicniúil (BWR 1)                                                          |                                   | ETA-02/0001<br>EAD 330232-01-0601,<br>Eagrán 12/2019 |
| Frithsheasmhachtaí saintréitheacha faoi straidhn tarraingthe (ualaí statacha agus cuasastatacha), modh A | Féach Iarscríbhinn B4, C1 agus C2 |                                                      |
| Friotaíochtaí tréitheacha faoi strus trasnach (ualaí statacha agus cuasastatacha)                        | Féach iarscríbhinn C3             |                                                      |
| Aistriú agus marthanacht:                                                                                | Féach Aguisín C4 agus B1          |                                                      |
| Friotaíochtaí tréitheacha agus aistriú maidir le catagóir feidhmíochta sheismeach C1 agus C2             | Gan aon fheidhmíocht a mheas      |                                                      |
| Cosaint dóiteáin (BWR 2)                                                                                 |                                   |                                                      |
| Iompar i gcás dóiteáin                                                                                   | Aicme A1                          |                                                      |
| Friotaíocht i gcoinne tine                                                                               | Gan aon fheidhmíocht a mheas      |                                                      |

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

Sínithe ar son agus thar ceann an déantúsóra ag:

Bunleagan sínithe ag:

Frank Wolpert

(Oifigeach Údaraithe - Ceann na Roinne Margaidh)

Bunleagan sínithe ag:

Dr. -Ing. Siegfried Beichter

(Oifigeach Údaraithe - Stiúrtóir Cáilíochta)

Künzelsau, 24/03/2023

**ΔΗΛΩΣΗ ΕΠΙΔΟΣΕΩΝ****Αρ. LE\_0904411065\_04\_M\_W-FA(1)**

Αυτή είναι μια μετάφραση από το γερμανικό πρωτότυπο. Σε περίπτωση αμφιβολίας ισχύει η πρωτότυπη γερμανική διατύπωση.

1. Μοναδικός κωδικός αναγνώρισης του τύπου του προϊόντος: Αγκύριο στερέωσης Würth W-FA  
Αρ. είδ. 09044\*, 59320\*, 59321\*, 59322\*, 59323\*, 59324\*, 59329\*  
Εξαιρούνται οι ακόλουθοι αρ. είδ. 0904411061, 5932006040, 5932008050, 5932010060, 5932012075, 5932906040
2. Σκοπός (-οί) χρήσης: Μηχανικό αγκύριο για χρήση σε σκυρόδεμα
3. Κατασκευαστής: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Σύστημα 1
4. Σύστημα (-τα) για την αξιολόγηση και τον έλεγχο της διατήρησης της επίδοσης: Σύστημα 1
5. Ευρωπαϊκό έντυπο αξιολόγησης: EAD 330232-01-0601, έκδοση 12/2019  
Ευρωπαϊκή τεχνική αξιολόγηση: ETA-02/0001 - 03.02.2021  
Οργανισμός τεχνικής αξιολόγησης: Deutsches Institut für Bautechnik (DIBt), Βερολίνο  
Κοινοποιημένος οργανισμός (-οί): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Δηλωμένη επίδοση (-εις):

| Σημαντικά χαρακτηριστικά                                                                               | Επίδοση                       | Εναρμονισμένες τεχνικές προδιαγραφές                 |
|--------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------|
| <b>Μηχανική αντοχή και αντίσταση (BWR 1)</b>                                                           |                               | ETA-02/0001<br>EAD 330232-01-0601,<br>έκδοση 12/2019 |
| Χαρακτηριστικές αντιστάσεις υπό καταπόνηση σε εφελκυσμό (στατικά και οιοινεί στατικά φορτία) μέθοδος Α | Βλέπε παράρτημα Β4, C1 και C2 |                                                      |
| Χαρακτηριστικές αντιστάσεις υπό εγκάρσια καταπόνηση (στατικά και οιοινεί στατικά φορτία)               | Βλέπε παράρτημα C3            |                                                      |
| Μετατόπιση και ανθεκτικότητα                                                                           | Βλέπε παράρτημα C4 και Β1     |                                                      |
| Χαρακτηριστικές αντιστάσεις και μετατόπιση για τη σεισμική κατηγορία ισχύος C1 και C2                  | Δεν έχει αξιολογηθεί επίδοση  |                                                      |
| <b>Πυροπροστασία (BWR 2)</b>                                                                           |                               |                                                      |
| Συμπεριφορά σε πυρκαγιά                                                                                | Κατηγορία Α1                  |                                                      |
| Αντοχή σε πυρκαγιά                                                                                     | Δεν έχει αξιολογηθεί επίδοση  |                                                      |

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

Υπογράφεται για τον κατασκευαστή και εν ονόματι του κατασκευαστή από:

Στο πρωτότυπο υπογράφεται από:

Frank Wolpert

(Γενικός εμπορικός πληρεξούσιος -  
Διευθυντής τμήματος αγοράς)

Στο πρωτότυπο υπογράφεται από:

Dr. -Ing. Siegfried Beichter

(Γενικός εμπορικός πληρεξούσιος -  
Διευθυντής ποιότητας)

Künzelsau, την 24.03.2023

## IZJAVA O SVOJSTVIMA

Nr. LE\_0904411065\_04\_M\_W-FA(1)

Ovo je prijevod originalnoga teksta na njemačkom jeziku. U slučaju sumnje vrijedi originalno izdanje na njemačkom jeziku

- |                                                                                                                             |                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Jedinstvena identifikacijska oznaka tipa proizvoda:                                                                      | Würth sidreni vijak W-FA<br>Art. br. 09044*; 59320*; 59321*; 59322*; 59323*; 59324*; 59329*<br>Osim sljedećih art. br. 0904411061; 5932006040; 5932008050;<br>5932010060; 5932012075; 5932906040        |
| 2. Namjena(e):                                                                                                              | mehaničko sidro za upotrebu u betonu                                                                                                                                                                    |
| 3. Proizvođač:                                                                                                              | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                         |
| 4. Sustav/i za ocjenjivanje i provjeru postojanosti svojstava:                                                              | Sustav 1                                                                                                                                                                                                |
| 5. Europski dokument za ocjenjivanje:<br>Europska tehnička ocjena:<br>Tijelo za tehničku ocjenu:<br>Prijavljeno/a tijelo/a: | EAD 330232-01-0601, izdanje 12./2019.<br>ETA-02/0001 - 3. 2. 2021.<br>Njemački institut građevinarstva (DIBt), Berlin<br>2873, Institut za čelične konstrukcije i mehaniku materijala (IFSW), Darmstadt |
| 6. Navedeno svojstvo/a:                                                                                                     |                                                                                                                                                                                                         |

| Bitna obilježja                                                                                 | Svojstvo                 | Usklađene tehničke specifikacije                        |
|-------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|
| Mehanička čvrstoća i stabilnost (BWR 1)                                                         |                          | ETA-02/0001<br>EAD 330232-01-0601,<br>izdanje 12./2019. |
| Karakteristični otpori pri uzdužnom opterećenju (statično i kvazistatično djelovanje): Metoda A | Vidi priloge B4, C1 i C2 |                                                         |
| Karakteristični otpor pri poprečnom opterećenju (statični i kvazistatični tereti)               | Vidi prilog C3           |                                                         |
| Pomicanje i postojanost                                                                         | Vidi priloge C4 i B1     |                                                         |
| Karakteristični otpor i pomicanje za seizmičku kategoriju učinka C1 i C2                        | Svojstvo nije ocijenjeno |                                                         |
| Zaštita od požara (BWR 2)                                                                       |                          |                                                         |
| Ponašanje u slučaju požara                                                                      | Klasa A1                 |                                                         |
| Otpornost na požar                                                                              | Svojstvo nije ocijenjeno |                                                         |

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

Potpisano za i u ime proizvođača od strane:

Originalni dokument potpisao/la:

Frank Wolpert

(Prokurist – voditelj odjela za tržište)

Originalni dokument potpisao/la:

Dr. – Ing. Siegfried Beichter

(Prokurist – voditelj za kvalitetu)

Künzelsau, 24. 3. 2023.

**TELJESÍTMÉNYNYILATKOZAT****LE\_0904411065\_04\_M\_W-FA(1) sz.**

Ez a német eredeti szöveg fordítása. Eltérés esetén az eredeti német nyelvű változat érvényes.

1. A terméktípus egyedi azonosító kódja: Würth W-FA rögzítőhorgony  
Cikksz.: 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Az alábbi cikkszámok kivételével: 0904411061; 5932006040;  
5932008050; 5932010060; 5932012075; 5932906040
2. Felhasználási cél(ok): Mechanikus dübel betonban való használatra
3. Gyártó: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. A teljesítményállandóság értékelésére és ellenőrzésére szolgáló rendszer(ek): 1-es rendszer
5. Európai értékelési dokumentum: EAD 330232-01-0601, 2019/12-es kiadás  
Európai Műszaki Értékelés: ETA-02/0001 - 2021.02.03.  
Műszaki értékelő szervezet: Deutsches Institut für Bautechnik (DIBt), Berlin  
Bejelentett szerv(ek): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Nyilatkozatban szereplő teljesítmény(ek):

| Lényeges jellemzők                                                                            | Teljesítmény                    | Harmonizált műszaki specifikáció                        |
|-----------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------|
| <b>Mechanikai szilárdság és állékonyság (BWR 1)</b>                                           |                                 | ETA-02/0001<br>EAD 330232-01-0601,<br>2019/12-es kiadás |
| Jellemző ellenállások húzó igénybevétel esetén (statikus és kvázi-statisz terhek) „A” módszer | Lásd a B4, C1 és C2 mellékletet |                                                         |
| Jellemző ellenállások keresztirányú igénybevétel esetén (statikus és kvázi-statisz terhek)    | Lásd a C3 mellékletet           |                                                         |
| Elmozdulás és tartósság                                                                       | Lásd a C4 és B1 mellékletet     |                                                         |
| Jellemző ellenállások és eltolódás a C1 és C2 szeizmikus teljesítménykategória esetén         | Nincs értékelt teljesítmény     |                                                         |
| <b>Tűzvédelem (BWR 2)</b>                                                                     |                                 |                                                         |
| Tűzzel szembeni viselkedés                                                                    | A1 osztály                      |                                                         |
| Tűzállóság                                                                                    | Nincs értékelt teljesítmény     |                                                         |

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

A gyártó képviselőjében és nevében aláírta:

Az eredeti példányt aláírta:

Frank Wolpert

(cégvezető – piac szakterület vezetője)

Az eredeti példányt aláírta:

Dr. –Ing. Siegfried Beichter

(cégvezető – minőségügyi vezető)

Künzelsau, 2023.03.24.

**DICHIARAZIONE DI PRESTAZIONE****N. LE\_0904411065\_04\_M\_W-FA(1)**

La presente è la versione tradotta dal testo originale in tedesco. In caso di incertezze si considera valida la versione originale in tedesco.

1. **Codice di identificazione unico del prodotto-tipo:** Würth Fixanker W-FA (Ancorante in acciaio Würth W-FA)  
Art. n. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Eccetto gli articoli seguenti n. 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
2. **Utilizzo/i previsto/i:** Tassello meccanico per l'utilizzo nel calcestruzzo
3. **Azienda produttrice:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. **Sistema/i di valutazione e verifica della prestazione:** Sistema 1
5. **Documento per la Valutazione Europea:** EAD 330232-01-0601, edizione 12/2019  
**Valutazione tecnica europea:** ETA-02/0001 - 03.02.2021  
**Organismo di valutazione tecnica:** Deutsches Institut für Bautechnik (DIBt), Berlino  
**Organismo/i notificato/i:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. **Prestazione/i dichiarata/e:**

| Caratteristiche essenziali                                                          | Prestazione                    | Norma tecnica armonizzata                              |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------|
| Resistenza meccanica e stabilità (BWR 1)                                            |                                | ETA-02/0001<br>EAD 330232-01-0601,<br>edizione 12/2019 |
| Resistenze caratteristiche a trazione (carichi statici e quasi statici), metodo A   | Si vedano Allegati B4, C1 e C2 |                                                        |
| Resistenze caratteristiche ai carichi orizzontali (carichi statici e quasi statici) | Si veda Allegato C3            |                                                        |
| Variazione e durabilità                                                             | Si vedano Allegati C4 e B1     |                                                        |
| Resistenze e variazione caratteristiche per le categorie sismiche C1 e C2           | Nessuna prestazione valutata   |                                                        |
| Sicurezza in caso di incendio (BWR 2)                                               |                                |                                                        |
| Reazione al fuoco                                                                   | Classe A1                      |                                                        |
| Resistenza al fuoco                                                                 | Nessuna prestazione 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:

Firmato in originale da:

Frank Wolpert

(Procuratore - Responsabile Settore  
Mercato)

Firmato in originale da:

Dr. -Ing. Siegfried Beichter

(Procuratore - Responsabile Qualità)

Künzelsau, 24.03.2023

**EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA****Nr. LE\_0904411065\_04\_M\_W-FA(1)**

Tai yra originalaus vokiško teksto vertimas. Kilus abejonių, galioja vokiška versija.

1. Produkto tipo unikalus atpažinimo kodas: „Würth“ įvirtinamas inkaras W-FA  
Prekės Nr.: 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Išskyrus šiuos prekių Nr.: 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
2. Naudojimo paskirtis (-ys): Mechaninis kaištis, skirtas tvirtinti betone
3. Gamintojas: „Adolf Würth GmbH & Co. KG“  
Reinhold-Würth-Str. 12-17  
D - 74653 Kiuncelsau  
1 sistema
4. Eksploatacinių savybių atsparumo įvertinimo ir patikrinimo sistema (-os):
5. Europos įvertinimo dokumentas: EAD 330232-01-0601, 2019 m. gruodžio mėn. leidimas  
Europos techninis įvertinimas: ETA-02/0001, atliktas 2021-02-03  
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-02/0001<br>EAD 330232-01-0601,<br>2019 m. gruodžio mėn.<br>leidimas |
| Būdingas pasipriešinimas tempimo įtampai (statinė ir kvazistatinė apkrova), A metodas   | Žr. priedą B4, C1 iki C2               |                                                                         |
| Būdingas pasipriešinimas skersinei įtampai (statinė ir kvazistatinė apkrova)            | Žr. C3 priedą.                         |                                                                         |
| Poslinkiai ir ilgaamžiškumas                                                            | Žr. priedą nuo C4 iki B1               |                                                                         |
| Būdingas atsparumas ir poslinkis seisminei eksploatacinių savybių kategorijai C1 ir C2. | Neįvertinta jokia eksploatacinė savybė |                                                                         |
| <b>Priešgaisrinė apsauga (BWR 2)</b>                                                    |                                        |                                                                         |
| Degumas                                                                                 | A1 klasė                               |                                                                         |
| Atsparumas ugniai                                                                       | Neįvertinta jokia eksploatacinė savybė |                                                                         |

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

Pasirašo gamintojas ir atstovas gamintojo vardu:

Originalų pasirašė:

Frank Wolpert

(Ilgaliotasis rinkos vadovas)

Originalų pasirašė:

Dr. inž. Siegfried Beichter

(Ilgaliotasis kokybės vadovas)

Kiuncelsau, 2023-03-24

**EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA****Nr. LE\_0904411065\_04\_M\_W-FA(1)**

Šis ir tulkojums no oriģinālā teksta vācu valodā. Šaubu gadījumos spēkā ir oriģinālā versija vācu valodā

1. Unikālais izstrādājuma tipa identifikācijas numurs: Würth fiksējošais enkurs W-FA  
Preces Nr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Izņēmums ir tālāk minētie preču Nr. 0904411061; 5932006040;  
5932008050; 5932010060; 5932012075; 5932906040
2. Lietojuma mērķis(-i): Mehāniskie dībeļi betona konstrukcijām
3. Ražotājs: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau (Kincelzava)
4. Eksploatācijas īpašību noturības novērtējuma un pārbaudes sistēma(-as): 1. sistēma
5. Eiropas novērtējuma dokuments: EAD 330232-01-0601, 12/2019 izdevums  
Eiropas Tehniskais novērtējums: ETA-02/0001 - 03.02.2021.  
Tehniskā novērtējuma iestāde: Deutsches Institut für Bautechnik (DIBt), Berlin (Berlīne)  
Paziņotā(-ās) iestāde(-es): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Darmštate)
6. Deklarētā(-ās) eksploatācijas īpašība(-as):

| Būtiskie raksturlielumi                                                             | Eksploatācijas īpašības       | Saskaņotā tehniskā specifikācija                       |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------|
| <b>Mehāniskā izturība un stiprība <i>(BWR 1)</i></b>                                |                               | ETA-02/0044<br>EAD 330232-01-0601,<br>12/2019 izdevums |
| Raksturīgās pretestības stiepes slodzei (statiska un kvazistatiska slodze) A metode | Skatīt B4, C1 un C2 pielikumu |                                                        |
| Raksturīgās pretestības šķērsslodzei (statiska un kvazistatiska slodze)             | Skatīt C3 pielikumu           |                                                        |
| Bīde un ilgizturība                                                                 | Skatīt C4 un B1 pielikumu     |                                                        |
| Raksturīgās pretestības un bīde saistībā ar seismisko īpašību kategoriju C1 un C2   | Nav vērtējuma                 |                                                        |
| <b>Ugunsdrošība <i>(BWR 2)</i></b>                                                  |                               |                                                        |
| Degšanas īpašības                                                                   | A1 klase                      |                                                        |
| Ugunsizturība                                                                       | Nav vērtējuma                 |                                                        |

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:

Oriģinālu parakstījis:

*Frank Wolpert* (Franks Volperts)

(Prokūrists – Tirdzniecības nodaļas vadītājs)

Oriģinālu parakstījis:

Dr. –Ing. Siegfried Beichter (Dr. ing.

Zigfrīds Beichters)

(Prokūrists – *Leiter Qualität* (prokūrists – kvalitātes sistēmas vadītājs))

Künzelsau (Kincelzava), 24.03.2023.



**DIKJARAZZJONI TA' PRESTAZZJONI****Nru LE\_0904411065\_04\_M\_W-FA(1)**

Din hija traduzzjoni tat-test originali bil-Ġermaniż. F'każ ta' dubju tgħodd il-verżjoni originali bil-Ġermaniż

- Kodiċi uniku ta' identifikazzjoni tat-tip tal-prodott:** Würth Fixanchor W-FA  
Nru tal-oġġett 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
B'eċċezzjoni tan-numri tal-oġġetti li ġejjin: 0904411061; 5932006040;  
5932008050; 5932010060; 5932012075; 5932906040
- Użu/i intenzjonat/i:** Kavilja mekkanika għall-użu fil-konkrit
- Manifattur:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Sistema 1
- Sistema jew sistemi ta' valutazzjoni u verifika tal-kostanza ta' prestazzjoni:** Sistema 1
- Dokument Ewropew ta' valutazzjoni:** EAD 330232-01-0601, Edizzjoni 12/2019  
**Valutazzjoni Teknika Ewropea:** ETA-02/0001 - 03/02/2021  
**Korp tal-valutazzjoni teknika:** Deutsches Institut für Bautechnik (DIBt), Berlin  
**Korp/i nnotifikat/i:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt, Germany
- Prestazzjoni/i/jiet ddikjarata/i:**

| Karatteristiċi essenzjali                                                                    | Prestazzjoni                          | Speċifikazzjoni teknika armonizzata                     |
|----------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------|
| <b>Stabbiltà u ebusija mekkanika (BWR 1)</b>                                                 |                                       | ETA-02/0001<br>EAD 330232-01-0601,<br>Edizzjoni 12/2019 |
| Reżistenzi karatteristiċi taħt stress tensili (tagħbijiet statiki u kważi statiki), metodu A | Ara l-Annessi B4, C1 u C2             |                                                         |
| Reżistenzi karatteristiċi taħt stress trasversali (tagħbijiet statiki u kważi statiki):      | Ara l-Anness C3                       |                                                         |
| Spostament u durabbiltà                                                                      | Ara l-Annessi C4 u B1                 |                                                         |
| Reżistenzi karatteristiċi u spostament għall-kategorija ta' prestazzjoni sismika C1 u C2     | Lebda prestazzjoni ma għiet stabbiltà |                                                         |
| <b>Protezzjoni kontra n-nar (BWR 2)</b>                                                      |                                       |                                                         |
| Reazzjoni għan-nar                                                                           | Klassi A1                             |                                                         |
| Reżistenza kontra n-nar                                                                      | Lebda prestazzjoni ma għiet stabbiltà |                                                         |

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

Iffirmat għal u f'isem il-manifattur minn:

Fid-dokument originali, iffirmat minn:

Frank Wolpert

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

Fid-dokument originali, iffirmat minn:

Dr. -Ing. Siegfried Beichter

(Rapp. Awtorizzat - Kap, Ġestjoni tal-Kwalità)

Künzelsau, 24/03/2023

## **PRESTATIEVERKLARING**

**Nr. LE\_0904411065\_04\_M\_W-FA(1)**

Dit is een vertaling van de Duitse originele tekst. In twijfelgevallen geldt de originele Duitse versie.

1. Eenduidige identificatiecode van het producttype: Würth fixanker W-FA  
Art.nr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Uitgezonderd zijn de volgende art.nrs: 0904411061; 5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. Gebruiksdoel(en): Mechanische plug voor gebruik in beton
3. Fabrikant: Adolf Würth GmbH & Co. KG, Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. Systeem/systemen voor beoordeling en verificatie van de prestatiebestendigheid: System 1
5. Europees beoordelingsdocument: EAD 330232-01-0601, editie 12/2019  
Europese technische beoordeling: ETA-02/0001 - 03/02/2021  
Technische beoordelingsinstantie: Deutsches Institut für Bautechnik (DIBt), Berlijn  
Aangemelde instantie(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Vastgestelde prestatie(s):

| Belangrijkste eigenschappen                                                                      | Prestatie                  | Geharmoniseerde technische specificatie              |
|--------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------|
| Mechanische sterkte en stabiliteit (BWR 1)                                                       |                            | ETA-02/0001<br>EAD 330232-01-0601,<br>editie 12/2019 |
| Karakteristieke weerstanden bij trekbelasting (statische en quasi-statische belasting) methode A | Zie bijlage B4, C1 en C2   |                                                      |
| Karakteristieke weerstanden bij dwarsbelasting (statische en quasi-statische belasting)          | Zie bijlage C3             |                                                      |
| Verschuiving en duurzaamheid                                                                     | Zie bijlage C4 en B1       |                                                      |
| Karakteristieke weerstanden en verschuiving voor seismische prestatiecategorie C1 en C2          | Geen prestatie vastgesteld |                                                      |
| Brandveiligheid (BWR 2)                                                                          |                            |                                                      |
| Brandgedrag                                                                                      | Klasse A1                  |                                                      |
| Brandweerstand                                                                                   | Geen prestatie vastgesteld |                                                      |

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:

Origineel ondertekend door:  
Frank Wolpert  
(Procuratiehouder - Hoofd Marketing)

Origineel ondertekend door:  
dr.-ing. Siegfried Beichter  
(Procuratiehouder - Hoofd Kwaliteit)

Künzelsau, 24/03/2023

**YTELSESERKLÆRING****Nr. LE\_0904411065\_04\_M\_W-FA(1)**

Dette er en oversettelse av den tyske originalteksten. I tilfeller gjelder den tyske originalversjonen

1. Entydig kode for produkttypen: Würth stikkanker W-FA  
Art.-nr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Unntatt nedenstående art.-nr. 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
2. Bruksområde: Mekanisk plugg til bruk i betong
3. Produsent: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
System 1
4. System(er) til vurdering og kontroll av ytelsesbestandigheten:
5. Europeisk vurderingsdokument: EAD 330232-01-0601, Edition 12/2019  
Europeisk teknisk godkjenning: ETA-02/0001 - 03.02.2021  
Teknisk godkjenningsorgan: Deutsches Institut für Bautechnik, Berlin  
Teknisk(e) kontrollorgan(er): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt, Tyskland
6. Erklært(e) ytelse(r):

| Vesentlige egenskaper                                                                        | Ytelse                  | Harmonisert teknisk spesifikasjon                     |
|----------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------|
| <b>Mekanisk fasthet og stabilitet (BWR 1)</b>                                                |                         | ETA-02/0001<br>EAD 330232-01-0601,<br>Edition 12/2019 |
| Karakteristisk motstand ved strekkbelastning (statisk og nesten-statisk belastning) metode A | Se vedlegg B4, C1 og C2 |                                                       |
| Karakteristisk motstand ved tverrbelastning (statisk og nesten-statisk belastning)           | Se vedlegg C3           |                                                       |
| Forskyvning og holdbarhet                                                                    | Se vedlegg C4 og B1     |                                                       |
| Karakteristisk motstand og forskyvning for seismisk kategori C1 og C2                        | Ingen ytelse vurdert    |                                                       |
| <b>Brannvern (BWR 2)</b>                                                                     |                         |                                                       |
| Egenskaper ved brann                                                                         | Klasse A1               |                                                       |
| Brannmotstand                                                                                | Ingen ytelse vurdert    |                                                       |

Ytelsen til dette produktet tilsvarende 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:

Originalen underskrevet av:

Frank Wolpert

(prokurist – leder området marked)

Originalen underskrevet av:

Dr. ing. Siegfried Beichter

(prokurist – leder kvalitet)

Künzelsau, den 24.03.2023

**DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH****Nr LE\_0904411065\_04\_M\_W-FA(1)**

Niniejszy dokument jest tłumaczeniem oryginalnego tekstu w języku niemieckim. W razie wątpliwości obowiązuje oryginalna wersja niemiecka

1. **Niepowtarzalny kod identyfikacyjny typu produktu:** Würth kotwa mocująca W-FA  
Nr artykułu 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Za wyjątkiem artykułów o następujących numerach 0904411061; 5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. **Przeznaczenie:** mechaniczny kołek do zastosowania w betonie
3. **Producent:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. **System (systemy) oceny i weryfikacji stałości właściwości użytkowych:** System 1
5. **Europejski dokument oceny:** EAD 330232-01-0601, edycja 12/2019  
**Europejska Ocena Techniczna:** ETA-02/0001 - 03.02.2021 r.  
**Placówka sporządzająca ocenę techniczną:** Deutsches Institut für Bautechnik (DIBt), Berlin  
**Jednostka/-i notyfikowana/-e:** 2873, Institut für Stahlbau und Werkstoffmechanik (Instytut konstrukcji stalowych i mechaniki tworzyw), Darmstadt
6. **Deklarowane właściwości użytkowe:**

| Istotne cechy                                                                                      | Właściwości użytkowe        | Zharmonizowana specyfikacja techniczna               |
|----------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------|
| Wytrzymałość mechaniczna i stateczność (BWR 1)                                                     |                             | ETA-02/0001<br>EAD 330232-01-0601,<br>edycja 12/2019 |
| Opory właściwe przy naprężeniu rozciągającym (oddziaływania statyczne i quasi statyczne), metoda A | Patrz załącznik B4, C1 i C2 |                                                      |
| Opory właściwe przy obciążeniu poprzecznym (oddziaływania statyczne i quasi statyczne)             | Patrz załącznik C3          |                                                      |
| Przesunięcie i trwałość                                                                            | Patrz załącznik C4 i B1     |                                                      |
| Opory właściwe i przesunięcie dla sejsmicznej kategorii właściwości C1 i C2                        | brak oceny właściwości      |                                                      |
| Ochrona przeciwpożarowa (BWR 2)                                                                    |                             |                                                      |
| Klasyfikacja ogniowa                                                                               | Klasa A1                    |                                                      |
| Odporność ogniowa                                                                                  | brak oceny 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:

Oryginał podpisany przez:

Frank Wolpert

(Prokurent – Kierownik działu ds. rynku)

Oryginał podpisany przez:

Dr inż. Siegfried Beichter

(Prokurent - Kierownik działu jakości)

Künzelsau, dnia 24.03.2023 r.

**DECLARAÇÃO DE DESEMPENHO****N.º LE\_0904411065\_04\_M\_W-FA(1)**

Trata-se de uma tradução do texto original em alemão. Em caso de dúvida, é válida a versão original em alemão

1. **Código de identificação inequívoco do tipo de produto:** Bucha de fixação Würth W-FA  
N.º art. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
À exceção dos números de artigo que se seguem 0904411061;  
5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. **Fim/fins de utilização:** Bucha mecânica para utilização em betão
3. **Fabricante:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Sistema 1
4. **Sistema(s) para avaliação e verificação da constância do desempenho:**
5. **Documento de Avaliação Europeu:** EAD 330232-01-0601, edição 12/2019  
**Avaliação Técnica Europeia:** ETA-02/0001 - 03.02.2021  
**Organismo de Avaliação Técnica:** Deutsches Institut für Bautechnik (DIBt), Berlim  
**Organismo(s) notificado(s):** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. **Desempenho(s) declarado(s):**

| Características essenciais                                                                       | Desempenho              | Especificação técnica harmonizada                    |
|--------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------|
| Resistência mecânica e estabilidade (BWR 1)                                                      |                         | ETA-02/0001<br>EAD 330232-01-0601,<br>edição 12/2019 |
| Resistências características sob esforço de tração (cargas estáticas e quasi-estáticas) método A | Veja anexos B4, C1 e C2 |                                                      |
| Resistências características sob esforço de transversal (cargas estáticas e quasi-estáticas)     | Veja anexo C3           |                                                      |
| Deslocamento e durabilidade                                                                      | Veja anexos C4 e B1     |                                                      |
| Resistências características e deslocamento para a categoria de desempenho sísmica C1 e C2       | Desempenho não avaliado |                                                      |
| Proteção contra incêndio (BWR 2)                                                                 |                         |                                                      |
| Reação ao fogo                                                                                   | Classe A1               |                                                      |
| Resistência ao fogo                                                                              | Desempenho não avaliado |                                                      |

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

Assinado pelo fabricante e em nome do fabricante de:

Documento original assinado por:

Frank Wolpert

(Procurador - Diretor do segmento do mercado)

Documento original assinado por:

Dr. Eng.º Siegfried Beichter

(Procurador - Diretor de qualidade)

Künzelsau, a 24.03.2023

**DECLARAȚIE DE PERFORMANȚĂ****Nr. LE\_0904411065\_04\_M\_W-FA(1)**

Aceasta este o traducere a textului german original. În caz de dubiu, este valabilă redactarea în limba germană

1. **Cod unic de identificare al tipului de produs:** Ancoră de fixare W-FA Würth  
Nr. art. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Sunt exceptate următoarele nr. art. 0904411061\*; 5932006040\*;  
5932008050\*; 5932010060\*; 5932012075\*; 5932906040\*
2. **Scopul sau scopurile de utilizare:** Dibluri mecanice pentru utilizarea în beton
3. **Producător:** Adolf Würth GmbH & Co. KG  
Reinhold- Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Sistem 1
4. **Sistem(e) pentru evaluarea și verificarea constanței performanței:** Sistem 1
5. **Document european de evaluare:** EAD 330232-01-0601, Ediția 12/2019  
**Evaluare tehnică europeană:** ETA-02/0001 - 03.02.2021  
**Organism de evaluare tehnică:** Deutsches Institut für Bautechnik (DIBt), Berlin  
**Organism(e) notificat(e):** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Institutul pentru construcții metalice și mecanica materialelor)
6. **Performanța(e) declarată(e):**

| Caracteristici esențiale                                                                         | Performanță                   | Specificație tehnică armonizată                      |
|--------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------|
| Rezistență mecanică și stabilitate (BWR 1)                                                       |                               | ETA-02/0001<br>EAD 330232-01-0601,<br>Ediția 12/2019 |
| Rezistențe caracteristice la solicitarea de tracțiune (sarcini statice și cvazistatice) Metoda A | A se vedea anexa B4, C1 și C2 |                                                      |
| Rezistențe caracteristice la solicitare transversală (sarcini statice și cvazistatice)           | A se vedea anexa C3           |                                                      |
| Deplasare și durabilitate                                                                        | A se vedea anexa C4 și B1     |                                                      |
| Rezistențe caracteristice și deplasarea pentru categoria de performanțe seismice C1 și C2        | Nicio performanță evaluată    |                                                      |
| Protecție contra incendiilor (BWR 2)                                                             |                               |                                                      |
| Comportament la incendiu                                                                         | Clasa A1                      |                                                      |
| Rezistență la foc                                                                                | Nicio performanță evaluată    |                                                      |

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

Semnată pentru și în numele producătorului, de către:

Semnat în original de:

Frank Wolpert

(Reprezentant legal – director  
departament marketing)

Semnat în original de:

Dr. –Ing. Siegfried Beichter

(Reprezentant legal - director calitate)

Künzelsau, 24.03.2023

## ДЕКЛАРАЦИЯ ХАРАКТЕРИСТИК

№ LE\_0904411065\_04\_M\_W-FA(1)

Это перевод оригинального немецкого текста. В случае сомнений преимущество имеет немецкий вариант

- |                                                                 |                                                                                                                                                                                                        |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Однозначная маркировка типа продукта:                        | Неподвижный анкер Würth W-FA<br>Арт.№ 09044*; 59320*; 59321*; 59322*; 59323*; 59324*; 59329*<br>Исключены следующие артикулы 0904411061; 5932006040;<br>5932008050; 5932010060; 5932012075; 5932906040 |
| 2. Цель(и) применения:                                          | Механический дюбель для применения с бетоном                                                                                                                                                           |
| 3. Изготовитель:                                                | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                        |
| 4. Система(ы) для оценки и проверки стабильности характеристик: | Система 1                                                                                                                                                                                              |
| 5. Европейский оценочный документ:                              | EAD 330232-01-0601, редакция 12/2019                                                                                                                                                                   |
| Европейская техническая оценка:                                 | ETA-02/0001 - 03.02.2021                                                                                                                                                                               |
| Орган технической оценки                                        | Германский институт строительных технологий (DIBt), Берлин                                                                                                                                             |
| Уполномоченный(е) орган(ы):                                     | 2873, Институт строительных 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-02/0001<br>EAD 330232-01-0601,<br>редакция 12/2019 |
| Типичные сопротивления при растяжении (статические и квазистатические нагрузки) Метод А | См. Приложения В4, С1 и С2   |                                                        |
| Типичные сопротивления при работе на срез (статические и квазистатические нагрузки)     | См. Приложение С3            |                                                        |
| Перемещение и долговечность                                                             | См. Приложения С4 и В1       |                                                        |
| Типичное сопротивление и смещение для категорий сейсмических нагрузок С1 и С2           | Характеристика не определена |                                                        |
| <b>Противопожарная защита (BWR 2)</b>                                                   |                              |                                                        |
| Огнестойкость                                                                           | Класс А1                     |                                                        |
| Огнестойкость                                                                           | Характеристика не определена |                                                        |

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

Подписано за изготовителя и от имени изготовителя:

Оригинал подписан:

Франк Вольперт

(Прокурис - Нач. отд. маркетинга)

Оригинал подписан:

Д-р-инж. Зигфрид Байхтер

(Прокурис - Нач. ОТК)

Кюнцельзау, 24.03.2023

## PRESTANDADEKLARATION

Nr. LE\_0904411065\_04\_M\_W-FA(1)

Detta är en översättning av den tyska originaltexten. I tveksamma fall gäller originalet på tyska.

- Produkttypens unika identifikationskod:** Würth pinnskruvexpander W-FA  
Art.-nr. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Med undantag av följande art.-nr. 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
- Användningsändamål:** Mekanisk plugg för användning i betong
- Tillverkare:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
- System för bedömning och kontroll av prestandabeständighet:** System 1
- Europeiskt bedömningsdokument:** EAD 330232-01-0601, Edition 12/2019  
**Europeisk teknisk bedömning:** ETA-02/0001 - 2021-02-03  
**Tekniskt bedömningsorgan:** Deutsches Institut für Bautechnik (DIBt), Berlin  
**Notificerade organ:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
- Deklarerad prestanda:**

| Väsentliga egenskaper                                                                | Prestanda               | Harmoniserad teknisk specifikation                    |
|--------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------|
| <b>Mekanisk hållfasthet och stabilitet (BWR 1)</b>                                   |                         | ETA-02/0001<br>EAD 330232-01-0601,<br>Edition 12/2019 |
| Karakteristiska motstånd vid dragpåkning (statiska och kvasistatiska laster) Metod A | Se Bilaga B4, C1 och C2 |                                                       |
| Karakteristiska motstånd vid tvärbelastning (statiska och kvasistatiska laster)      | Se Bilaga C3            |                                                       |
| Förskjutning och varaktighet                                                         | Se Bilaga C4 och B1     |                                                       |
| Karakteristiska motstånd och förskjutning för seismisk prestandakategori C1 och C2   | Prestanda ej bedömd     |                                                       |
| <b>Brandskydd (BWR 2)</b>                                                            |                         |                                                       |
| Branduppförande                                                                      | Klass A1                |                                                       |
| Brandmotstånd                                                                        | 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:

I originalet undertecknad av:  
Frank Wolpert  
(Prokurist - Chef Område marknad)

I originalet undertecknad av:  
Dr.-ing. Siegfried Beichter  
(Prokurist - Chef Kvalitet)

Künzelsau, 2023-03-24



**VYHLÁSENIE O VLASTNOSTIACH****Č. LE\_0904411065\_04\_M\_W-FA(1)**

To je prevod nemškega izvirnika. Pri dvomih velja izvirna nemška različica.

1. Jednoznačný identifikačný kód typu výrobku: Fixačná kotva Würth W-FA  
Výr. č. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Vyňaté sú nasledujúce výr. č. 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
2. Účel(y) použitia: Mechanická hmoždinka na použitie v betóne
3. Výrobca: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Systém 1
4. Systém (systémy) na posúdenie a kontrolu stálosti parametrov: Systém 1
5. Európsky posudzovací dokument: EAD 330232-01-0601, edícia 12/2019  
Európske technické vyhodnotenie: ETA-02/0001 - 03.02.2021  
Pracovisko pre technické vyhodnotenie: Deutsches Institut für Bautechnik (Nemecký inštitút pre stavebnú techniku) (DIBt), Berlín  
Notifikovaný orgán(y): 2873, Ústav pre oceľové konštrukcie a mechaniku materiálov (IFSW), Darmstadt
6. Vlastnosť(i) uvedené vo vyhlásení:

| Podstatné znaky                                                                         | Vlastnosť                  | Harmonizovaná technická špecifikácia                 |
|-----------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------|
| Mechanická pevnosť a stabilita (BWR 1)                                                  |                            | ETA-02/0001<br>EAD 330232-01-0601,<br>edícia 12/2019 |
| Charakteristické odolnosti pri namáhaní ťahom (statické a kvázistatické záťaž) Metóda A | Pozri prílohu B4, C1 a C2  |                                                      |
| Charakteristické odolnosti pri priečnom namáhaní (statické a kvázistatické záťaž)       | Pozri prílohu C3           |                                                      |
| Posun a stálosť                                                                         | Pozri prílohu C4 a B1      |                                                      |
| Charakteristické odolnosti a posun pre seizmickú kategóriu výkonu C1 a C2               | Nevyhodnotený žiaden výkon |                                                      |
| Protipožiarna ochrana (BWR 2)                                                           |                            |                                                      |
| Reakcia látky pri požiari                                                               | Trieda A1                  |                                                      |
| Požiarna odolnosť                                                                       | Nevyhodnotený žiaden výkon |                                                      |

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

Podpísané pre výrobcu a v mene výrobcu:

Original podpísal:

Frank Wolpert

(Prokurista - vedúci oblasti trhu)

Original podpísal:

Dr. -Ing. Siegfried Beichter

(Prokurista - vedúci kvality)

Künzelsau, 24.03.2023

**IZJAVA O LASTNOSTIH****Št. LE\_0904411065\_04\_M\_W-FA(1)**

To je prevod nemškega izvirnika. Pri dvomih velja izvirna nemška različica.

1. Enotna identifikacijska oznaka tipa izdelka: Pritrdilno sidro Würth W-FA  
Št. art. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*  
Izključene so naslednje številke artiklov: 0904411061; 5932006040; 5932008050; 5932010060; 5932012075; 5932906040
2. Nameni uporabe: Mehanski vložki za uporabo v betonu
3. Proizvajalec: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau, Nemčija
4. Sistemi za vrednotenje in preverjanje trajnosti lastnosti: Sistem 1
5. Evropski ocenjevalni dokument: EAD 330232-01-0601, izdaja 12/2019  
Evropsko tehnično vrednotenje: ETA-02/0001 - 3. 2. 2021  
Organ, ki je opravil tehnično vrednotenje: Deutsches Institut für Bautechnik (DIBt), Berlin  
Obveščeni organ: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Navedene lastnosti:

| Bistvene značilnosti                                                                        | Lastnost                    | Harmonizirana tehnična specifikacija                 |
|---------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------|
| Mehanska trdnost in stabilnost (BWR 1)                                                      |                             | ETA-02/0001<br>EAD 330232-01-0601,<br>izdaja 12/2019 |
| Značilne odpornosti pri potezni obremenitvi (statična in kvazistatična bremena), metoda A   | Glejte Priloge B4, C1 in C2 |                                                      |
| Značilne odpornosti pri prečni obremenitvi (statična in kvazistatična bremena)              | Glejte Prilogo C3           |                                                      |
| Premik in trajnost                                                                          | Glejte Priloge C4 in B1     |                                                      |
| Značilne odpornosti in premik pri seizmičnih obremenitvah, kategoriji zmogljivosti C1 in C2 | Lastnost ni ocenjena        |                                                      |
| Protipožarna zaščita (BWR 2)                                                                |                             |                                                      |
| Požarne lastnosti                                                                           | Razred A1                   |                                                      |
| Požarna odpornost                                                                           | 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:

Original podpisal:

Frank Wolpert

(prokurist - vodja oddelka za trženje)

Original podpisal:

Dr. -Ing. Siegfried Beichter

(prokurist - vodja za kakovost)

Künzelsau, 24. 3. 2023

**PERFORMANS BEYANI****No. LE\_0904411065\_04\_M\_W-FA(1)**

Bu, Almanca orijinal metnin bir çevirisidir. Şüpheli durumlarda orijinal Almanca metin geçerlidir.

1. Ürün tipinin açık kodu: Würth sabitleme vidası W-FA  
Ürün No. 09044\*; 59320\*; 59321\*; 59322\*; 59323\*; 59324\*; 59329\*  
Takip eden ürün numaraları hariçtir 0904411061; 5932006040; 5932008050;  
5932010060; 5932012075; 5932906040
2. Kullanma amacı (amaçları): Betonda kullanmak için mekanik dübel
3. Üretici: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Sistem 1
4. Performansın sürdürülebilirliğinin değerlendirilmesi ve kontrolü için sistem(ler):
5. Avrupa Değerlendirme Belgesi: EAD 330232-01-0601, Baskı 12/2019  
Avrupa Teknik Değerlendirmesi: ETA-02/0001 - 03.02.2021  
Teknik Değerlendirme Kuruluşu: Deutsches Institut für Bautechnik (DIBt), Berlin  
Akredite kuruluş(lar): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Beyan edilen performans(lar):

| Önemli özellikler                                                               | Performans                           | Uyumlandırılmış teknik nitelik                      |
|---------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|
| <b>Mekanik dayanıklılık ve kararlılık (BWR 1)</b>                               |                                      | ETA-02/0001<br>EAD 330232-01-0601,<br>Baskı 12/2019 |
| Enine yük altında karakteristik dirençler (statik ve duruğumsu yükler) Yöntem A | Bkz. Ek B4, C1 ve C2                 |                                                     |
| Enine yük altında karakteristik dirençler (statik ve duruğumsu yükler)          | Bkz. Ek C3                           |                                                     |
| Kaydırma ve süreklilik                                                          | Bkz. Ek C4 ve B1                     |                                                     |
| Sismik performans kategorisi C1 ve C2 için karakteristik dirençler ve kaydırma  | Performans değerlendirmesi yapılmadı |                                                     |
| <b>Yangından koruma (BWR 2)</b>                                                 |                                      |                                                     |
| Yangındaki tutum                                                                | Sınıf A1                             |                                                     |
| Yangına dayanıklılık                                                            | Performans değerlendirmesi yapılmadı |                                                     |

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

Üretici için ve üretici adına imzalayan:

Orijinalini imzalayan:

Frank Wolpert

(İmza yetkili pazarlar bölümü yöneticisi)

Orijinalini imzalayan:

Dr. Müh. Siegfried Beichter

(İmza Yetkili Kalite Yöneticisi)

Künzelsau, 24.03.2023