

**DECLARATION OF PERFORMANCE**  
**NR.LE\_090401006\_02\_M-W-ED(1)**

**LANGUAGE VERSIONS :**

| Language         | Site |
|------------------|------|
| EN               | 2    |
| ETA-02/0044 (EN) | 3    |
| BG               | 19   |
| CZ               | 20   |
| DA               | 21   |
| DE               | 22   |
| ES               | 23   |
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## DECLARATION OF PERFORMANCE

Nr. LE\_090401006\_02\_M\_W-ED(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 Drop-in Anchor W-ED  
Art.-No. 0904010\*; 0904040\*; 0904030\*
2. Intended use(s): Deformation-controlled expansion anchor for use in non-cracked concrete
3. Manufactured by: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. System(s) of assessment and verification of constancy of performance: System 1
5. European Assessment Document: ETAG 001 Part 4 - April 2013  
European Technical Assessment: ETA-02/0044 - 01/03/2016  
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           |
|----------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------|
| <b>Mechanical resistance and stability (BWR 1)</b>                                           |                         | ETA-02/0044<br>ETAG 001 Part 4<br>April 2013 |
| Characteristic resistance for tension and shear loads as well as bending moments in concrete | See Annex C1 to C4      |                                              |
| Edge distances and spacing                                                                   | See Annex C1 to C2      |                                              |
| Displacements under tension and shear loads                                                  | See Annex C5            |                                              |
| <b>Safety in case of fire (BWR 2)</b>                                                        |                         |                                              |
| 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:



Frank Wolpert  
Authorized Signatory, Head of Market Division  
Künzelsau, 01/04/2021



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-02/0044**  
**of 1 March 2016**

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 Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4,  
W-ED/A4 BND, W-ED/HCR and W-ED/HCR BND

Product family  
to which the construction product belongs

Deformation-controlled expansion anchor  
for use in non-cracked concrete

Manufacturer

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

Manufacturing plant

Herstellwerk W1, DEUTSCHLAND

This European Technical Assessment  
contains

16 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

Guideline for European technical approval of "Metal  
anchors for use in concrete", ETAG 001 Part 4:  
"Deformation controlled expansion anchors", April 2013,  
used as European Assessment Document (EAD)  
according to Article 66 Paragraph 3 of Regulation (EU)  
No 305/2011.

This version replaces

ETA-02/0044 issued on 26 March 2015

**European Technical Assessment**

**ETA-02/0044**

English translation prepared by DIBt

**Page 2 of 16 | 1 March 2016**

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## Specific Part

### 1 Technical description of the product

The Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR und W-ED/HCR BND is an anchor made of galvanised steel, made of stainless steel or high corrosion resistant steel which is placed into a drilled hole and anchored by deformation-controlled expansion.

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 for tension and shear loads as well as bending moments in concrete | See Annex C 1 to C 4 |
| Edge distances and spacing                                                                   | See Annex C 1 to C 2 |
| Displacements under tension and shear loads                                                  | See Annex C 5        |

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

| Essential characteristic | Performance                                 |
|--------------------------|---------------------------------------------|
| Reaction to fire         | Anchorage satisfy requirements for Class A1 |
| Resistance to fire       | No performance assessed                     |

#### 3.3 Safety in use (BWR 4)

The essential characteristics regarding Safety in use are included under the Basic Works Requirement Mechanical resistance and stability.

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

In accordance with guideline for European technical approval ETAG 001, April 2013, used as European Assessment Document (EAD) according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011, 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 1 March 2016 by Deutsches Institut für Bautechnik

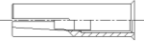
Andreas Kummerow  
p.p. Head of Department

*beglaubigt:*  
Baderschneider

## Drop-in Anchor W-ED

### Anchor size

### Type BND

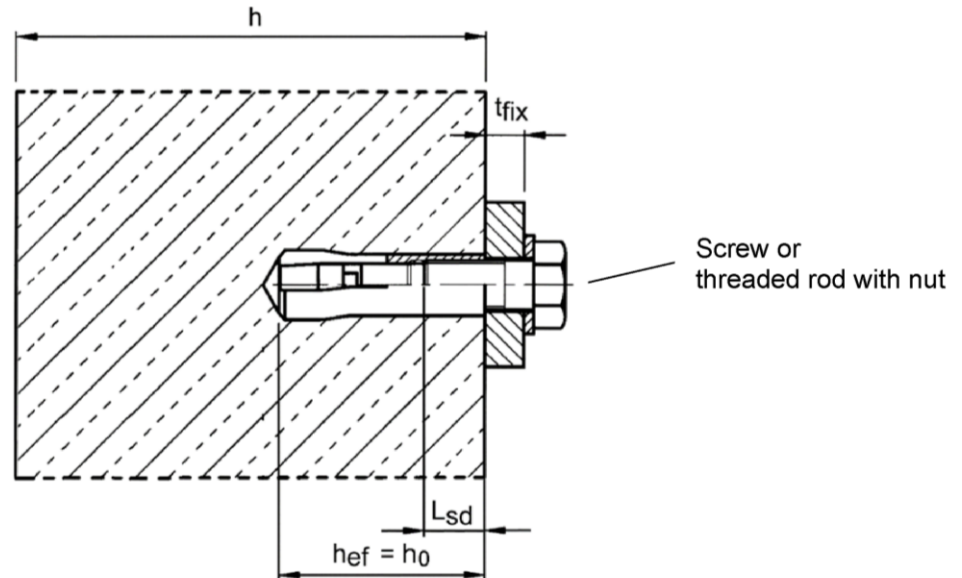
|        |                                                                                     |                                                                                     |                              |                                                                                      |                                                                                       |
|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| M6x30  |    |    | M6x30                        |    |    |
| M8x30  |    |    | M8x30                        |    |    |
| M8x40  |    |    | M8x40                        |    |    |
|        |                                                                                     |                                                                                     | M10x30<br>(zinc plated only) |    |    |
| M10x40 |    |    | M10x40                       |    |    |
| M12x50 |    |    | M12x50                       |    |    |
| M12x80 |    |    | M12x80                       |    |    |
| M16x65 |   |   | M16x65                       |   |   |
| M16x80 |  |  | M16x80                       |  |  |
| M20x80 |  |  |                              |                                                                                      |                                                                                       |

Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND,  
W-ED/HCR, W-ED/HCR BND

Product description  
Anchor size

Annex A1

## Installation situation



**Table A1: Designations of anchor parts and material**

| Part | Designation   | Steel, zinc plated                                            | Stainless steel A4                                                                                          | High corrosion resistant steel HCR                                                          |
|------|---------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1    | Anchor sleeve | Cold formed or machining steel, zinc plated, EN ISO 4042:1999 | Stainless steel, 1.4401, 1.4404, 1.4571, 1.4362, EN 10088:2005, Property class 70, acc. to EN ISO 3506:2010 | Stainless steel, 1.4529, 1.4565, EN 10088:2005, Property class 70, acc. to EN ISO 3506:2010 |
| 2    | Cone          | Steel for cold forming acc. to EN 10263-2:2001                | Stainless steel, 1.4401, 1.4404, 1.4571, 1.4362, EN 10088:2005                                              |                                                                                             |

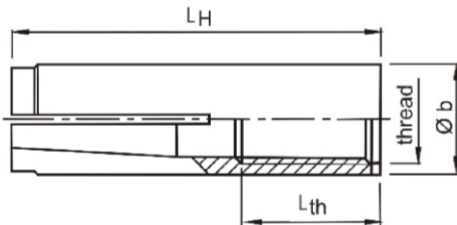
**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

**Product description**  
Installation situation and material

**Annex A2**

## Anchor sleeve

Anchor version without shoulder

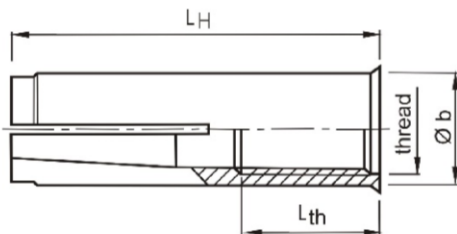


Marking: see Table A2

e.g.:  $\diamond$  E M8x40

$\diamond$  Identifying mark of manufacturing plant  
E Anchor identity (version without shoulder)  
ES Anchor identity (version with shoulder)  
M8 Size of thread  
40 Anchorage depth

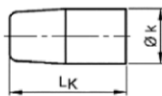
Anchor version with shoulder Type BND



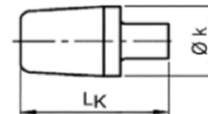
A4 additional marking  
of stainless steel A4

HCR additional marking of  
high corrosion resistant steel

## Cone



Size M6x30 and M10x30



Size M8x30 – M20x80

Table A2: Dimensions and marking

| Anchor size | Anchor sleeve |      |                |                 | Cone |                | Marking             |                      |                     |
|-------------|---------------|------|----------------|-----------------|------|----------------|---------------------|----------------------|---------------------|
|             | thread        | Ø b  | L <sub>H</sub> | L <sub>th</sub> | Ø k  | L <sub>K</sub> | version E           | version ES           | alternatively       |
| M6x30       | M6            | 8    | 30             | 13              | 5,0  | 13             | $\diamond$ E M6x30  | $\diamond$ ES M6x30  | $\diamond$ E M6     |
| M8x30       | M8            | 10   | 30             | 13              | 6,5  | 12             | $\diamond$ E M8x30  | $\diamond$ ES M8x30  | $\diamond$ E M8     |
| M8x40       | M8            | 10   | 40             | 20              |      |                | $\diamond$ E M8x40  | $\diamond$ ES M8x40  | $\diamond$ E M8x40  |
| M10x30      | M10           | 12   | 30             | 12              | 8,2  | 12             | -                   | $\diamond$ ES M10x30 | $\diamond$ E M10x30 |
| M10x40      | M10           | 12   | 40             | 15              | 8,2  | 16             | $\diamond$ E M10x40 | $\diamond$ ES M10x40 | $\diamond$ E M10    |
| M12x50      | M12           | 15   | 50             | 18              | 10,3 | 20             | $\diamond$ E M12x50 | $\diamond$ ES M12x50 | $\diamond$ E M12    |
| M12x80      | M12           | 15   | 80             | 45              |      |                | $\diamond$ E M12x80 | $\diamond$ ES M12x80 | $\diamond$ E M12x80 |
| M16x65      | M16           | 19,7 | 65             | 23              | 13,8 | 29             | $\diamond$ E M16x65 | $\diamond$ ES M16x65 | $\diamond$ E M16    |
| M16x80      | M16           | 19,7 | 80             | 38              |      |                | $\diamond$ E M16x80 | $\diamond$ ES M16x80 | $\diamond$ E M16x80 |
| M20x80      | M20           | 24,7 | 80             | 34              | 16,5 | 30             | $\diamond$ E M20x80 | -                    | $\diamond$ E M20    |

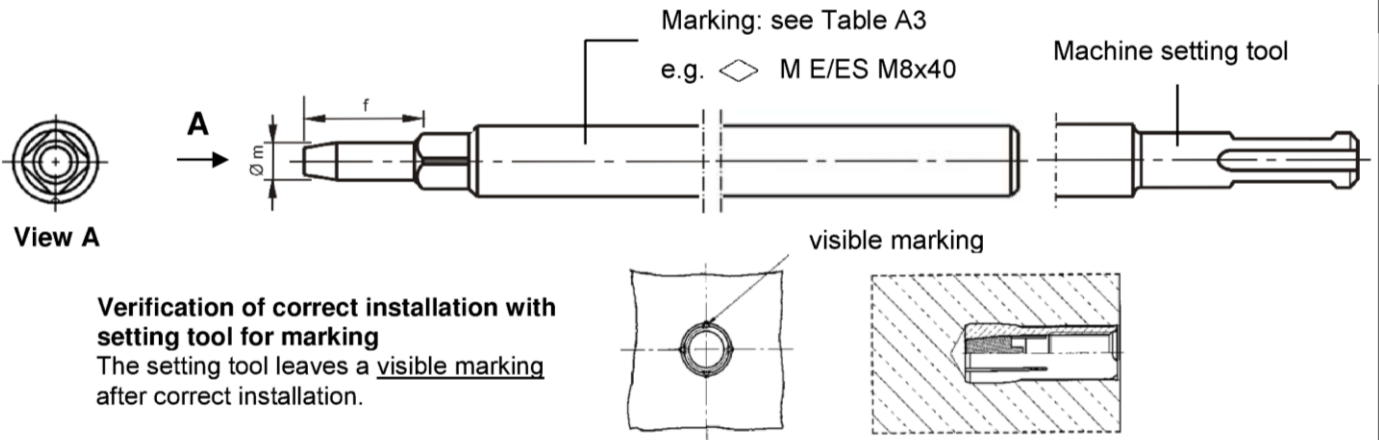
Dimensions in mm

Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND,  
W-ED/HCR, W-ED/HCR BND

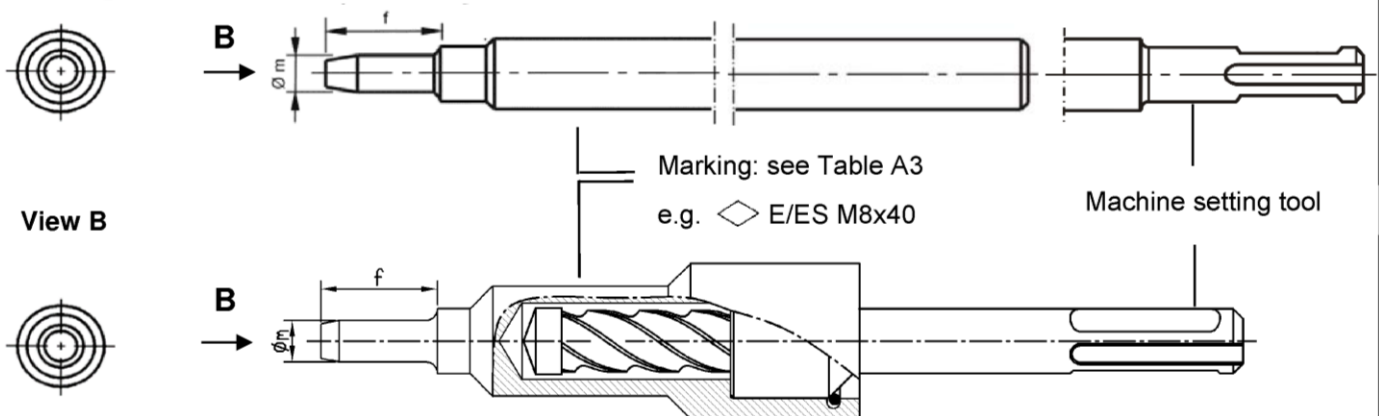
Product description  
Dimensions and marking

Annex A3

## Setting tool for marking



## Setting tool



**Table A3: Dimensions and marking of setting tools**

| Anchor size | $\varnothing m$ | f  | Setting tool for marking |                       | Setting tool           |                     |
|-------------|-----------------|----|--------------------------|-----------------------|------------------------|---------------------|
|             |                 |    | Marking                  | Alternative marking   | Marking                | Alternative marking |
| M6x30       | 4.9             | 17 | $\diamond$ M E/ES M6x30  | $\diamond$ M E M6     | $\diamond$ E/ES M6x30  | $\diamond$ E M6     |
| M8x30       | 6.4             | 18 | $\diamond$ M E/ES M8x30  | $\diamond$ M E M8     | $\diamond$ E/ES M8x30  | $\diamond$ E M8     |
| M8x40       | 6.4             | 28 | $\diamond$ M E/ES M8x40  | $\diamond$ M E M8x40  | $\diamond$ E/ES M8x40  | $\diamond$ E M8x40  |
| M10x30      | 8.0             | 18 | $\diamond$ M ES M10x30   | $\diamond$ M E M10x30 | $\diamond$ ES M10x30   | $\diamond$ E M10x30 |
| M10x40      | 8.0             | 24 | $\diamond$ M E/ES M10x40 | $\diamond$ M E M10    | $\diamond$ E/ES M10x40 | $\diamond$ E M10    |
| M12x50      | 10.0            | 30 | $\diamond$ M E/ES M12x50 | $\diamond$ M E M12    | $\diamond$ E/ES M12x50 | $\diamond$ E M12    |
| M12x80      | 10.0            | 60 | $\diamond$ M E/ES M12x80 | $\diamond$ M E M12x80 | $\diamond$ E/ES M12x80 | $\diamond$ E M12x80 |
| M16x65      | 13.5            | 36 | $\diamond$ M E/ES M16x65 | $\diamond$ M E M16    | $\diamond$ E/ES M16x65 | $\diamond$ E M16    |
| M16x80      | 13.5            | 51 | $\diamond$ M E/ES M16x80 | $\diamond$ M E M16x80 | $\diamond$ E/ES M16x80 | $\diamond$ E M16x80 |
| M20x80      | 16.5            | 50 | $\diamond$ M E M20x80    | $\diamond$ M E M20    | $\diamond$ E M20x80    | $\diamond$ E M20    |

Dimensions in mm

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

**Product description**  
Setting tools, dimensions and marking

**Annex A4**

## Specifications of intended use

### Anchorage subject to:

- Static and quasi-static loads

### Base materials:

- Reinforced or unreinforced normal weight concrete according to EN 206-1:2000
- Non-cracked concrete
- Strength classes C20/25 to C50/60 according to EN 206-1:2000

### Use conditions:

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

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

### 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.).
- The strength class and the length of the fastening screw or threaded rod shall be defined by the designing engineer
- Anchorages under static or quasi-static actions are designed in accordance with:
  - ETAG 001, Annex C, design method A, Edition August 2010 or
  - CEN/TS 1992-4:2009, Annex C, design method A

### Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site,
- Anchor installation in accordance with the manufacturer's specifications and drawings and using the appropriate tools,
- Drill hole by hammer drilling only,
- Positioning of the drill holes without damaging the reinforcement.

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

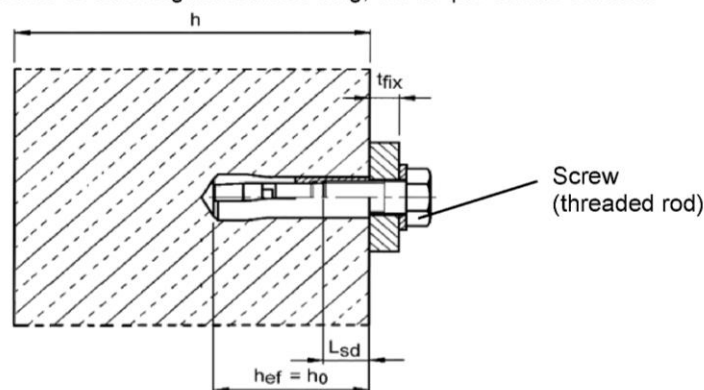
**Intended use  
Specifications**

**Annex B1**

**Table B1: Installation parameters**

| Anchor size                               |                      | M6x30 | M8x30 | M8x40 | M10x30 | M10x40 | M12x50 | M12x80 | M16x65 | M16x80 | M20x80 |
|-------------------------------------------|----------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Depth of drill hole                       | $h_0 =$ [mm]         | 30    | 30    | 40    | 30     | 40     | 50     | 80     | 65     | 80     | 80     |
| Drill hole diameter                       | $d_0 =$ [mm]         | 8     | 10    | 10    | 12     | 12     | 15     | 15     | 20     | 20     | 25     |
| Cutting diameter of drill bit             | $d_{cut} \leq$ [mm]  | 8.45  | 10.45 | 10.45 | 12.5   | 12.5   | 15.5   | 15.5   | 20.55  | 20.55  | 25.55  |
| Max. installation torque <sup>1)</sup>    | $T_{inst} \leq$ [Nm] | 4     | 8     | 8     | 15     | 15     | 35     | 35     | 60     | 60     | 120    |
| Diameter of clearance hole in the fixture | $d_f \leq$ [mm]      | 7     | 9     | 9     | 12     | 12     | 14     | 14     | 18     | 18     | 22     |
| Available thread length                   | $L_{th}$ [mm]        | 13    | 13    | 20    | 12     | 15     | 18     | 45     | 23     | 38     | 34     |
| Minimum screw-in depth                    | $L_{sdmin}$ [mm]     | 7     | 9     | 9     | 10     | 11     | 13     | 13     | 18     | 18     | 22     |
| <b>Steel, zinc plated</b>                 |                      |       |       |       |        |        |        |        |        |        |        |
| Minimum thickness of member               | $h_{min}$ [mm]       | 100   | 100   | 100   | 120    | 120    | 130    | 130    | 160    | 160    | 200    |
| Minimum spacing                           | $s_{min}$ [mm]       | 55    | 60    | 80    | 100    | 100    | 120    | 120    | 150    | 150    | 160    |
| Minimum edge distance                     | $c_{min}$ [mm]       | 95    | 95    | 95    | 115    | 135    | 165    | 165    | 200    | 200    | 260    |
| <b>Stainless steel A4, HCR</b>            |                      |       |       |       |        |        |        |        |        |        |        |
| Minimum thickness of member               | $h_{min}$ [mm]       | 100   | 100   | 100   | -      | 130    | 140    | 140    | 160    | 160    | 250    |
| Minimum spacing                           | $s_{min}$ [mm]       | 50    | 60    | 80    | -      | 100    | 120    | 120    | 150    | 150    | 160    |
| Minimum edge distance                     | $c_{min}$ [mm]       | 80    | 95    | 95    | -      | 135    | 165    | 165    | 200    | 200    | 260    |

<sup>1)</sup> If the screw or threaded rod is otherwise secured against unscrewing, the torque can be omitted.



**Requirements of the fastening screw or the threaded rod and nut according to the engineering documents:**

- Minimum screw-in depth  $L_{sdmin}$  see Table B1
- The length of screw or the threaded rod shall be determined depending on the thickness of fixture  $t_{fix}$ , available thread length  $L_{th}$  (= maximum screw-in depth) and the minimum screw-in depth  $L_{sdmin}$ .
- $A_5 > 8$  % ductility

**Steel, zinc plated**

- Property class 4.6 / 5.6 / 5.8 or 8.8 according to EN ISO 898-1:2013 or EN ISO 898-2:2012

**Stainless steel A4**

- Material 1.4401; 1.4404; 1.4578; 1.4571; 1.4439; 1.4362 EN 10088:2005
- Property class 70 or 80 according to EN ISO 3506:2010

**High corrosion resistant steel (HCR)**

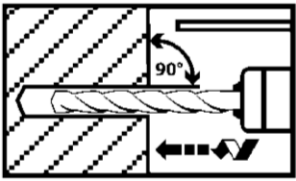
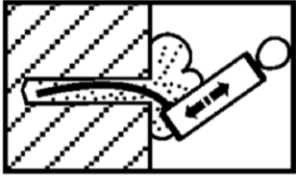
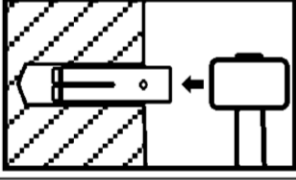
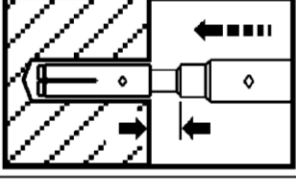
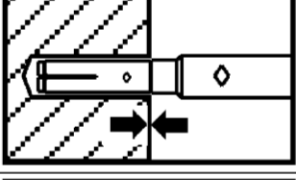
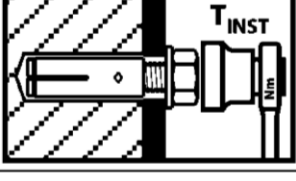
- Material 1.4529; 1.4565 acc. to EN 10088:2005
- Property class 70 or 80 acc. to EN ISO 3506:2010

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

**Intended use**  
Installation parameters

**Annex B2**

## Installation instructions

|   |                                                                                     |                                                                         |
|---|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1 |    | Drill hole perpendicular to concrete surface.                           |
| 2 |    | Blow out dust.                                                          |
| 3 |    | Drive in anchor.                                                        |
| 4 |   | Drive in cone by using setting tool.                                    |
| 5 |  | Shoulder of setting tool must fit on anchor rim.                        |
| 6 |  | Apply installation torque $T_{inst}$ by using calibrated torque wrench. |

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

**Intended use**  
Installation instructions

**Annex B3**

**Table C1:** Characteristic values for **tension loads, zinc plated steel**

| Anchor size                                  |                             |      | M6x30 <sup>1)</sup>                         | M8x30 <sup>1)</sup> | M8x40 | M10x30 <sup>1)</sup> | M10x40 | M12x50 | M12x80 | M16x65<br>M16x80 | M20x80 |  |
|----------------------------------------------|-----------------------------|------|---------------------------------------------|---------------------|-------|----------------------|--------|--------|--------|------------------|--------|--|
| Installation safety factor                   | $\gamma_2 = \gamma_{inst}$  | [-]  | 1.2                                         |                     |       |                      |        |        |        |                  |        |  |
| Steel failure                                |                             |      |                                             |                     |       |                      |        |        |        |                  |        |  |
| Characteristic resistance Steel 4.6          | $N_{Rk,s}$                  | [kN] | 8.0                                         | 14.6                |       | 23.2                 |        | 33.7   |        | 62.8             | 98.0   |  |
| Partial safety factor                        | $\gamma_{Ms}$               | [-]  | 2.0                                         |                     |       |                      |        |        |        |                  |        |  |
| Characteristic resistance Steel 5.6          | $N_{Rk,s}$                  | [kN] | 10.0                                        | 18.3                |       | 18.0                 | 20.2   | 42.1   |        | 78.3             | 122.4  |  |
| Partial safety factor                        | $\gamma_{Ms}$               | [-]  | 2.0                                         |                     |       | 1.5                  |        | 2.0    |        |                  |        |  |
| Characteristic resistance Steel 5.8          | $N_{Rk,s}$                  | [kN] | 10.0                                        | 17.6                | 18.3  | 18.0                 | 20.2   | 40.2   | 42.1   | 67.1             | 106.4  |  |
| Partial safety factor                        | $\gamma_{Ms}$               | [-]  | 1.5                                         |                     |       |                      |        |        |        |                  | 1.6    |  |
| Characteristic resistance Steel 8.8          | $N_{Rk,s}$                  | [kN] | 15.0                                        | 17.6                | 19.9  | 18.0                 | 20.2   | 40.2   | 43.0   | 67.1             | 106.4  |  |
| Partial safety factor                        | $\gamma_{Ms}$               | [-]  | 1.5                                         |                     |       |                      |        |        |        |                  | 1.6    |  |
| Pull-out failure                             |                             |      |                                             |                     |       |                      |        |        |        |                  |        |  |
| Characteristic resistance in concrete C20/25 | $N_{Rk,p}$                  | [kN] | 2)                                          | 2)                  | 9     | 2)                   | 2)     | 2)     |        | 2)               | 2)     |  |
| Increasing factor for $N_{Rk,p}$             | $\psi_C$                    | [-]  | $\left(\frac{f_{ck,cube}}{25}\right)^{0.3}$ |                     |       |                      |        |        |        |                  |        |  |
| Concrete cone failure and splitting          |                             |      |                                             |                     |       |                      |        |        |        |                  |        |  |
| Effective anchorage depth                    | $h_{ef}$                    | [mm] | 30                                          | 30                  | 40    | 30                   | 40     | 50     |        | 65               | 80     |  |
| Spacing (edge distance)                      | $s_{cr,N} (= 2 c_{cr,N})$   | [mm] | 3 $h_{ef}$                                  |                     |       |                      |        |        |        |                  |        |  |
|                                              | $s_{cr,sp} (= 2 c_{cr,sp})$ | [mm] | 190                                         | 190                 | 190   | 230                  | 270    | 330    |        | 400              | 520    |  |
| Factor acc. to CEN/TS 1992-4                 | $k_{ucr}$                   | [-]  | 10.1                                        |                     |       |                      |        |        |        |                  |        |  |

<sup>1)</sup> Use restricted to anchoring of structural components statically indeterminate

<sup>2)</sup> Pull-out is not decisive

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

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

**Annex C1**

**Table C2: Characteristic values for tension loads, stainless steel A4, HCR**

| Anchor size                                      |                             |                            | M6x30 <sup>1)</sup> | M8x30 <sup>1)</sup> | M8x40                                       | M10x40 | M12x50<br>M12x80 | M16x65<br>M16x80 | M20x80 |
|--------------------------------------------------|-----------------------------|----------------------------|---------------------|---------------------|---------------------------------------------|--------|------------------|------------------|--------|
| Installation safety factor                       |                             | $\gamma_2 = \gamma_{inst}$ | [-]                 | 1.0                 |                                             |        |                  |                  |        |
| Steel failure                                    |                             |                            |                     |                     |                                             |        |                  |                  |        |
| Characteristic resistance<br>(property class 70) | $N_{Rk,s}$                  | [kN]                       | 14.1                | 23.3                | 29.4                                        | 50.2   | 83.8             | 133.0            |        |
| Characteristic resistance<br>(property class 80) | $N_{Rk,s}$                  | [kN]                       | 17.5                | 23.3                | 29.4                                        | 50.2   | 83.8             | 133.0            |        |
| Partial safety factor                            | $\gamma_{Ms}$               | [-]                        | 1.87                |                     |                                             |        |                  |                  |        |
| Pull-out failure                                 |                             |                            |                     |                     |                                             |        |                  |                  |        |
| Characteristic resistance in<br>concrete C20/25  | $N_{Rk,p}$                  | [kN]                       | 2)                  | 2)                  | 9                                           | 2)     | 2)               | 2)               | 2)     |
| Increasing factor for $N_{Rk,p}$                 | $\psi/C$                    | [-]                        |                     |                     | $\left(\frac{f_{ck,cube}}{25}\right)^{0,5}$ |        |                  |                  |        |
| Concrete cone failure and splitting              |                             |                            |                     |                     |                                             |        |                  |                  |        |
| Effective anchorage depth                        | $h_{ef}$                    | [mm]                       | 30 <sup>3)</sup>    | 30                  | 40                                          | 40     | 50               | 65               | 80     |
| Spacing (edge distance)                          | $s_{cr,N} (= 2 c_{cr,N})$   | [mm]                       | 3 $h_{ef}$          |                     |                                             |        |                  |                  |        |
|                                                  | $s_{cr,sp} (= 2 c_{cr,sp})$ | [mm]                       | 160                 | 190                 | 190                                         | 270    | 330              | 400              | 520    |
| Factor acc. to CEN/TS 1992-4                     | $k_{ucr}$                   | [-]                        | 10.1                |                     |                                             |        |                  |                  |        |

<sup>1)</sup> Use restricted to anchoring of structural components statically indeterminate

<sup>2)</sup> Pull-out is not decisive.

<sup>3)</sup> For proof against concrete cone failure as per ETAG 001, annex C or CEN/TS 1992-4-4,  $N_{Rk,c}^0$  must be multiplied by the factor  $(25/f_{ck,cube})^{0.2}$ .

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

**Performance**  
Characteristic values for tension loads, stainless steel A4, HCR

**Annex C2**

**Table C3: Characteristic values for shear loads, zinc plated steel**

| Anchor size                                                               |                                |      | M6x30 <sup>1)</sup> | M8x30 <sup>1)</sup> | M8x40 | M10x30 <sup>1)</sup> | M10x40 | M12x50 | M12x80 | M16x65<br>M16x80 | M20x80 |
|---------------------------------------------------------------------------|--------------------------------|------|---------------------|---------------------|-------|----------------------|--------|--------|--------|------------------|--------|
| Steel failure without lever arm                                           |                                |      |                     |                     |       |                      |        |        |        |                  |        |
| Characteristic resistance<br>Steel 4.6                                    | V <sub>Rk,s</sub>              | [kN] | 4.0                 | 7.3                 |       | 11.6                 | 9.6    | 16.8   |        | 31.3             | 49.0   |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.67                |                     |       |                      |        |        |        |                  |        |
| Characteristic resistance<br>Steel 5.6                                    | V <sub>Rk,s</sub>              | [kN] | 5.0                 | 9.1                 |       | 10.1                 | 9.6    | 21.1   |        | 39.2             | 61.2   |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.67                |                     |       | 1.25                 | 1.67   |        |        |                  |        |
| Characteristic resistance<br>Steel 5.8                                    | V <sub>Rk,s</sub>              | [kN] | 5.0                 | 6.9                 |       | 10.1                 | 7.2    | 19.4   | 21.1   | 33.5             | 53.2   |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.25                |                     |       |                      |        |        |        | 1.33             |        |
| Characteristic resistance<br>Steel 8.8                                    | V <sub>Rk,s</sub>              | [kN] | 5.0                 | 6.9                 |       | 10.1                 | 7.2    | 19.4   | 21.5   | 33.5             | 53.2   |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.25                |                     |       |                      |        |        |        | 1.33             |        |
| Factor of ductility                                                       | k <sub>2</sub>                 | [-]  | 1.0                 |                     |       |                      |        |        |        |                  |        |
| Steel failure with lever arm                                              |                                |      |                     |                     |       |                      |        |        |        |                  |        |
| Characteristic resistance<br>Steel 4.6                                    | M <sup>0</sup> <sub>Rk,s</sub> | [Nm] | 6.1                 | 15                  |       | 30                   | 30     | 52     |        | 133              | 259    |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.67                |                     |       |                      |        |        |        |                  |        |
| Characteristic resistance<br>Steel 5.6                                    | M <sup>0</sup> <sub>Rk,s</sub> | [Nm] | 7.6                 | 19                  |       | 37                   | 37     | 65     |        | 166              | 324    |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.67                |                     |       |                      |        |        |        |                  |        |
| Characteristic resistance<br>Steel 5.8                                    | M <sup>0</sup> <sub>Rk,s</sub> | [Nm] | 7.6                 | 19                  |       | 37                   | 37     | 65     |        | 166              | 324    |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.25                |                     |       |                      |        |        |        |                  |        |
| Characteristic resistance<br>Steel 8.8                                    | M <sup>0</sup> <sub>Rk,s</sub> | [Nm] | 12                  | 30                  |       | 59                   | 60     | 105    |        | 266              | 519    |
| Partial safety factor                                                     | γ <sub>Ms</sub>                | [-]  | 1.25                |                     |       |                      |        |        |        |                  |        |
| Factor of ductility                                                       | k <sub>2</sub>                 | [-]  | 1.0                 |                     |       |                      |        |        |        |                  |        |
| Concrete pry-out failure                                                  |                                |      |                     |                     |       |                      |        |        |        |                  |        |
| Factor k acc. to ETAG 001,<br>Annex C or<br>k <sub>3</sub> acc. to CEN/TS | k <sub>(3)</sub>               | [-]  | 1.0                 |                     |       |                      |        | 1.5    |        | 2.0              |        |
| Concrete edge failure                                                     |                                |      |                     |                     |       |                      |        |        |        |                  |        |
| Effective length of anchor<br>under shear loading                         | l <sub>f</sub>                 | [mm] | 30                  | 30                  | 40    | 30                   | 40     | 50     |        | 65               | 80     |
| Outside diameter of<br>anchor                                             | d <sub>nom</sub>               | [mm] | 8                   | 10                  | 10    | 12                   | 12     | 15     |        | 20               | 25     |

<sup>1)</sup> Use restricted to anchoring of structural components statically indeterminate

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND,  
W-ED/HCR, W-ED/HCR BND**

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

**Annex C3**

**Table C4: Characteristic values for shear loads, stainless steel A4, HCR**

| Anchor size                                                            |                                |      | M6x30 <sup>1)</sup> | M8x30 <sup>1)</sup> | M8x40 | M10x40 | M12x50<br>M12x80 | M16x65<br>M16x80 | M20x80 |
|------------------------------------------------------------------------|--------------------------------|------|---------------------|---------------------|-------|--------|------------------|------------------|--------|
| Steel failure without lever arm                                        |                                |      |                     |                     |       |        |                  |                  |        |
| Characteristic resistance<br>(property class 70)                       | V <sub>Rk,s</sub>              | [kN] | 7.0                 | 10.6                |       | 13.4   | 25.1             | 41.9             | 66.5   |
| Characteristic resistance<br>(property class 80)                       | V <sub>Rk,s</sub>              | [kN] | 8.7                 | 10.6                |       | 13.4   | 25.1             | 41.9             | 66.5   |
| Partial safety factor                                                  | γ <sub>Ms</sub>                | [-]  | 1.56                |                     |       |        |                  |                  |        |
| Factor of ductility                                                    | k <sub>2</sub>                 | [-]  | 1.0                 |                     |       |        |                  |                  |        |
| Steel failure with lever arm                                           |                                |      |                     |                     |       |        |                  |                  |        |
| Characteristic resistance<br>(property class 70)                       | M <sup>0</sup> <sub>Rk,s</sub> | [Nm] | 11                  | 26                  |       | 52     | 92               | 233              | 454    |
| Partial safety factor                                                  | γ <sub>Ms</sub>                | [-]  | 1.56                |                     |       |        |                  |                  |        |
| Characteristic resistance<br>(property class 80)                       | M <sup>0</sup> <sub>Rk,s</sub> | [Nm] | 12                  | 30                  |       | 60     | 105              | 266              | 519    |
| Partial safety factor                                                  | γ <sub>Ms</sub>                | [-]  | 1.33                |                     |       |        |                  |                  |        |
| Factor of ductility                                                    | k <sub>2</sub>                 | [-]  | 1.0                 |                     |       |        |                  |                  |        |
| Concrete pry-out failure                                               |                                |      |                     |                     |       |        |                  |                  |        |
| Factor k acc. to ETAG 001, Annex C or<br>k <sub>3</sub> acc. to CEN/TS | k <sub>(3)</sub>               | [-]  | 1.0                 | 1.7                 |       | 1.7    |                  | 2.0              |        |
| Concrete edge failure                                                  |                                |      |                     |                     |       |        |                  |                  |        |
| Effective length of anchor under shear<br>loading                      | l <sub>f</sub>                 | [mm] | 30                  | 30                  | 40    | 40     | 50               | 65               | 80     |
| Outside diameter of anchor                                             | d <sub>nom</sub>               | [mm] | 8                   | 10                  | 10    | 12     | 15               | 20               | 25     |

<sup>1)</sup> Use restricted to anchoring of structural components statically indeterminate

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND,  
W-ED/HCR, W-ED/HCR BND**

**Annex C4**

**Performance**

Characteristic values for shear loads, stainless steel A4, HCR

**Table C5: Displacements under tension loads**

| Anchor size                          |                    |      | M6x30 | M8x30 | M8x40 | M10x30 | M10x40 | M12x50<br>M12x80 | M16x65<br>M16x80 | M20x80 |
|--------------------------------------|--------------------|------|-------|-------|-------|--------|--------|------------------|------------------|--------|
| Steel zinc plated                    |                    |      |       |       |       |        |        |                  |                  |        |
| Tension load in non-cracked concrete | N                  | [kN] | 3     | 3     | 3.6   | 3.3    | 4.8    | 6.4              | 10               | 14.8   |
| Displacement                         | $\delta_{N0}$      | [mm] | 0.24  |       |       |        |        |                  |                  |        |
|                                      | $\delta_{N\infty}$ | [mm] | 0.36  |       |       |        |        |                  |                  |        |
| Stainless steel A4 / HCR             |                    |      |       |       |       |        |        |                  |                  |        |
| Tension load in non-cracked concrete | N                  | [kN] | 4     | 4     | 4.3   | -      | 6.1    | 8.5              | 12.6             | 17.2   |
| Displacement                         | $\delta_{N0}$      | [mm] | 0.12  |       |       |        |        |                  |                  |        |
|                                      | $\delta_{N\infty}$ | [mm] | 0.24  |       |       |        |        |                  |                  |        |

**Table C6: Displacements under shear loads**

| Anchor size                        |                    |      | M6x30 | M8x30 | M8x40 | M10x30 | M10x40 | M12x50<br>M12x80 | M16x65<br>M16x80 | M20x80 |
|------------------------------------|--------------------|------|-------|-------|-------|--------|--------|------------------|------------------|--------|
| <b>Steel zinc plated</b>           |                    |      |       |       |       |        |        |                  |                  |        |
| Shear load in non-cracked concrete | V                  | [kN] | 2     | 4     | 4     | 5.7    | 4.0    | 11.3             | 18.8             | 32.2   |
| Displacement                       | $\delta_{V0}$      | [mm] | 0.9   | 0.9   | 1.0   | 1.5    | 0.6    | 1.2              | 1.2              | 1.6    |
|                                    | $\delta_{V\infty}$ | [mm] | 1.3   | 1.3   | 1.5   | 2.3    | 0.9    | 1.9              | 1.9              | 2.4    |
| <b>Stainless steel A4 / HCR</b>    |                    |      |       |       |       |        |        |                  |                  |        |
| Shear load in non-cracked concrete | V                  | [kN] | 3.5   | 5.2   | 5.2   | -      | 6.5    | 11.5             | 19.2             | 30.4   |
| Displacement                       | $\delta_{V0}$      | [mm] | 1.9   | 1.1   | 0.7   | -      | 1.0    | 1.7              | 2.4              | 2.6    |
|                                    | $\delta_{V\infty}$ | [mm] | 2.8   | 1.6   | 1.0   | -      | 1.5    | 2.6              | 3.6              | 3.8    |

**Würth Drop-in Anchor W-ED/S, W-ED/S BND, W-ED/A4, W-ED/A4 BND, W-ED/HCR, W-ED/HCR BND**

**Performance**  
Displacements

**Annex C5**

## ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

№ LE\_090401006\_02\_M\_W-ED(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 Einschlagdübel W-ED (Würth ударен дюбел W-ED)<br>Арт. № 0904010*; 0904040*; 0904030* |
| 2. Предвидена употреба/употреби:                                                      | Дюбел с разтваряне с контролиран ход за закотвяне в ненапукан 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:                                                  | ETAG 001 Част 4 - април 2013                                                               |
| Европейска техническа оценка:                                                         | ETA-02/0044 - 01.03.2016 г.                                                                |
| Орган за техническа оценка:                                                           | Deutsches Institut für Bautechnik (DIBt), Berlin                                           |
| Нотифициран(и) орган(и):                                                              | 2873, Institut für Stahlbau und Werkstoffmechanik (IFS), Darmstadt                         |
| 6. Деклариран(и) експлоатационен(и) показател(и):                                     |                                                                                            |

| Основни характеристики                                                                                        | Експлоатационни показатели               | Хармонизирана техническа спецификация            |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|
| <b>Механична якост и устойчивост (BWR 1)</b>                                                                  |                                          | ETA-02/0044<br><br>ETAG 001 Част 4<br>април 2013 |
| Характерни стойности на съпротивление при натоварване на опън и напречно натоварване, както и огъване в бетон | Вижте приложение C1 до C4                |                                                  |
| Разстояния до ръба и осите                                                                                    | Вижте приложение C1 до C2                |                                                  |
| Изместване под опън и напречно натоварване                                                                    | Вижте приложение C5                      |                                                  |
| <b>Противопожарна защита (BWR 2)</b>                                                                          |                                          |                                                  |
| Реакция на огън                                                                                               | Клас A1                                  |                                                  |
| Огнеустойчивост                                                                                               | Няма определен експлоатационен показател |                                                  |

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

Подписана за производителя и от името на производителя от:



Франк Волперт  
(Прокуриснт - мениджър Пазар)



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

Кюнцелсау, 01.4.2021 г.

## PROHLÁŠENÍ O VLASTNOSTECH

Č. LE\_090401006\_02\_M\_W-ED(1)

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

- |                                                                                                               |                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Jednoznačný identifikační kód typu výrobku:                                                                | Narážecí kotva W-ED Würth<br>Č. výr. 0904010*; 0904040*; 0904030*                                                                                                                                                                     |
| 2. Zamýšlené/zamýšlená použití:                                                                               | Rozpěrná kotva s kontrolovaným rozepřením k ukotvení do betonu bez trhlín                                                                                                                                                             |
| 3. Výrobce:                                                                                                   | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                                                       |
| 4. Systém(y) pro hodnocení a kontrolu stálosti vlastností:                                                    | Systém 1                                                                                                                                                                                                                              |
| 5. Evropský dokument pro posuzování:<br>Evropské technické schválení:<br>Pracoviště pro technické posuzování: | ETAG 001 část 4 - duben 2013<br>ETA-02/0044 - 01.03.2016<br>Deutsches Institut für Bautechnik, Berlin (DIBt, Německý institut pro stavební techniku v Berlíně)<br>2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt |
| Oznámený subjekt/oznámené subjekty:                                                                           |                                                                                                                                                                                                                                       |
| 6. Deklarovaná vlastnost/deklarované vlastnosti:                                                              |                                                                                                                                                                                                                                       |

| Podstatné charakteristické vlastnosti                                                     | Vlastnost            | Harmonizovaná technická specifikace          |
|-------------------------------------------------------------------------------------------|----------------------|----------------------------------------------|
| <b>Mechanická pevnost a stálost (BWR 1)</b>                                               |                      | ETA-02/0044<br>ETAG 001 část 4<br>duben 2013 |
| Charakteristické hodnoty odporu proti namáhání tahem a příčnému namáhání a ohybu v betonu | Viz přílohu C1 až C4 |                                              |
| Vzdálenosti od okraje a osově vzdálenosti                                                 | Viz přílohu C1 až C2 |                                              |
| Posuny při namáhání tahem a příčném namáhání                                              | Viz přílohu C5       |                                              |
| <b>Požární ochrana (BWR 2)</b>                                                            |                      |                                              |
| Reakce na oheň                                                                            | Třída A1             |                                              |
| Požární odolnost                                                                          | Vlastnosti neurčeny  |                                              |

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

Podepsal za výrobce a jeho jménem:



Frank Wolpert  
(zmocněnec - ředitel oddělení trhu)



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

Künzelsau, 01. 04. 2021

**YDEEVNEDEKLARATION****Nr. LE\_090401006\_02\_M\_W-ED(1)**

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

1. **Produkttypens entydige identifikationskode:** Würth rawlplug W-DN til at slå ind  
Art.-nr. 0904010\*; 0904040\*; 0904030\*
2. **Anvendelsesformål:** Strækningskontrolleret spredende dyvel til forankring i urevnet 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:** ETAG 001 del 4 - april 2013  
**Europæisk teknisk bedømmelse:** ETA-02/0044 - 01-03-2016  
**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 styrke og standsikkerhed (BWR 1)</b>                                            |                        | ETA-02/0044<br>ETAG 001 del 4<br>April 2013 |
| Modstandens karakteristiske værdier mod træk- og tværgående belastning samt bøjning i beton | Se bilag C1 til C4     |                                             |
| Afstande til kanter og akser                                                                | Se appendiks C1 til C2 |                                             |
| Forskydninger under træk- og tværbelastning                                                 | Se appendiks C5        |                                             |
| <b>Brandsikkerhed (BWR 2)</b>                                                               |                        |                                             |
| Brandreaktion                                                                               | Klasse A1              |                                             |
| Brandmodstand                                                                               | Ingen ydelse bestemt   |                                             |

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:



Frank Wolpert  
(Prokurist - Leder af  
markedsafdelingen)



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

Künzelsau, den 01.04.2021

## LEISTUNGSERKLÄRUNG

Nr. LE\_090401006\_02\_M\_W-ED(1)

1. Eindeutiger Kenncode des Produkttyps: Würth Einschlagdübel W-ED  
Art.-Nr. 0904010\*; 0904040\*; 0904030\*
2. Verwendungszweck(e): Wegkontrolliert spreizender Dübel zur Verankerung im ungerissenen 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: ETAG 001 Teil 4 - April 2013  
Europäische Technische Bewertung: ETA-02/0044 - 01.03.2016  
Technische Bewertungsstelle: Deutsches Institut für Bautechnik (DIBt), Berlin  
Notifizierte Stelle(n): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Erklärte Leistung(en):

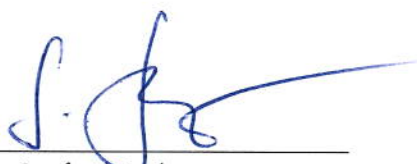
| Wesentliche Merkmale                                                                             | Leistung                | Harmonisierte technische Spezifikation       |
|--------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------|
| <b>Mechanische Festigkeit und Standsicherheit (BWR 1)</b>                                        |                         | ETA-02/0044<br>ETAG 001 Teil 4<br>April 2013 |
| Charakteristische Werte des Widerstandes gegen Zug- und Querbeanspruchung sowie Biegung in Beton | Siehe Anhang C1 bis C4  |                                              |
| Rand- und Achsabstände                                                                           | Siehe Anhang C1 bis C2  |                                              |
| Verschiebungen unter Zug- und Querbeanspruchung                                                  | Siehe Anhang C5         |                                              |
| <b>Brandschutz (BWR 2)</b>                                                                       |                         |                                              |
| Brandverhalten                                                                                   | Klasse A1               |                                              |
| Feuerwiderstand                                                                                  | Keine Leistung bestimmt |                                              |

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

Unterzeichnet für den Hersteller und im Namen des Herstellers von:



Frank Wolpert  
(Prokurist - Leiter Bereich Markt)



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

Künzelsau, den 01.04.2021

## DECLARACIÓN DE PRESTACIONES

N.º LE\_090401006\_02\_M\_W-ED(1)

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

1. Código de identificación única del producto tipo: Anclaje de impacto Würth W-ED  
N.º de art. 0904010\*; 0904040\*; 0904030\*
2. Uso(s) previsto(s): Taco de expansión controlado por el recorrido para el anclaje en hormigón no fisurado
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: ETAG 001 parte 4 - abril 2013  
Evaluación Técnica Europea: ETA-02/0044 - del 01/03/2016  
Organismo de Evaluación Técnica: Deutsches Institut für Bautechnik (Instituto Alemán de Tecnología de la Construcción), Berlín  
Organismo(s) notificado(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Prestaciones declaradas:

| Características esenciales                                                                                         | Prestación                              | Especificaciones técnicas armonizadas             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|
| <b>Resistencia mecánica y estabilidad (BWR 1)</b>                                                                  |                                         | ETA-02/0044<br><br>ETAG 001 parte 4<br>abril 2013 |
| Valores característicos de la resistencia al esfuerzo transversal y de tracción, así como a la flexión en hormigón | Véanse los anexos del C1 al C4          |                                                   |
| Distancias a los bordes y axiales                                                                                  | Véanse los anexos del C1 al C2          |                                                   |
| Desplazamientos bajo esfuerzo transversal y de tracción                                                            | Véase el anexo C5                       |                                                   |
| <b>Protección contra incendios (BWR 2)</b>                                                                         |                                         |                                                   |
| Reacción al fuego                                                                                                  | Clase A1                                |                                                   |
| Resistencia al fuego                                                                                               | No se ha determinado ninguna prestación |                                                   |

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:



Frank Wolpert  
(Apoderado - Director del área de mercado)



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

Künzelsau, el 01/04/2021

**TOIMIVUSDEKLARATSIOON****Nr. LE\_090401006\_02\_M\_W-ED(1)**

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

1. Tootetüübi kordumatu identifitseerimiskood: Würthi lööktüübel W-ED  
Art.-nr 0904010\*; 0904040\*; 0904030\*
2. Ettenähtud kasutusotstarve või -otstarbed: Kontrollitult laienev tüübel kinnitamiseks pragudeta betooni
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: ETAG 001, 4. osa - aprill 2013  
Euroopa tehniline hinnang: ETA-02/0044, 1.03.2016  
Tehnilise hindamise asutus: Deutsches Institut für Bautechnik (DIBt), Berliin  
Teavitatud asutus(ed): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Deklareeritud toimevõime(ed):

| Põhiomadused                                                                        | Toimivus           | Ühtlustatud tehniline kirjeldus                |
|-------------------------------------------------------------------------------------|--------------------|------------------------------------------------|
| Mehaaniline tugevus ja vastupidavus (BWR 1)                                         |                    | ETA-02/0044<br>ETAG 001, 4. osa<br>aprill 2013 |
| Betoonis tõmbekoormusele ja külgjõule vastupanu ning painde iseloomulikud väärtused | Vt lisa C1 kuni C4 |                                                |
| Serva ja telgede vahekaugused                                                       | Vt lisa C1 kuni C2 |                                                |
| Nihe tõmbekoormuse ja külgjõu osas                                                  | Vt lisa C5         |                                                |
| Tulekaitse (BWR 2)                                                                  |                    |                                                |
| Tuletundlikkus                                                                      | Klass A1           |                                                |
| Tuletakistus                                                                        | Toimivus määramata |                                                |

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

Tootja poolt ja nimel allkirjastanud:



Frank Wolpert  
(prokurist – turu valdkonna juht)



Dr. ins. Siegfried Beichter  
(prokurist-kvaliteedijuht)

Künzelsau, 01.04.2021

**SUORITUSTASOILMOITUS****Nro LE\_090401006\_02\_M\_W-ED(1)**

**Tämä on käännös saksankielisestä.  
Epäilyksissä pätee saksankielinen alkuperäisilmoitus.**

1. Tuotetyypin yksilöllinen tunniste: Würth lyöntiankkuri W-ED  
Tuote-nro 0904010\*; 0904040\*; 0904030\*
2. Aiottu käyttötarkoitus (aiotut käyttötarkoitukset): Vääntymistarkistettu kiila-ankkuri halkeilemattomaan betoniin ankkuroimiseksi
3. Valmistaja: Adolf Würth GmbH & Co. KG  
Reinhold- Würth-Str. 12 - 17  
D - 74653 Künzelsau, Saksa  
Järjestelmä 1
4. Suoritusason arvioinnin ja tarkistamisen järjestelmä(t):
5. Eurooppalainen arviointidokumentti: ETAG 001 osa 4 - huhtikuu 2013  
Eurooppalainen tekninen arviointi: ETA-02/0044- 1.03.2016  
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 suoritusaso/ilmoitetut suoritusasot:

| Perusominaisuudet                                                                      | Suoritusaso                | Yhdenmukaistetut tekniset eritelmät            |
|----------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|
| Mekaaninen lujuus ja vakaus (BWR 1)                                                    |                            | ETA-02/0044<br>ETAG 001 osa 4<br>Huhtikuu 2013 |
| Ominaisarvot vastukselle veto- ja poikittaiskuormituksessa sekä taipumiselle betonissa | Katso liitteet C1 - C4     |                                                |
| Reuna- ja akselietäisyydet                                                             | Katso liitteet C1 - C2     |                                                |
| Siirtymä veto- ja poikittaiskuormituksessa                                             | Katso liite C5             |                                                |
| Palosuoja (BWR 2)                                                                      |                            |                                                |
| Palokäyttäytyminen                                                                     | Luokka A1                  |                                                |
| Palonkestävyys                                                                         | Suoritusasoa ei määritetty |                                                |

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

Valmistajan puolesta allekirjoittanut:



Frank Wolpert  
(Prokuristi - markkinapäällikkö)



TKT Siegfried Beichter  
(Prokuristi - laadunjohtaja)

Künzelsau, 01.04.2021

## DÉCLARATION DE PERFORMANCES

N° LE\_090401006\_02\_M\_W-ED(1)

**Il s'agit ici de la version traduite à partir de l'allemand.**

**En cas de doute, la version allemande fait foi**

1. Code d'identification unique du produit type : Cheville d'impact de béton Würth W-ED  
N° de réf. 0904010\*; 0904040\*; 0904030\*
2. Usage(s) prévu(s) : Cheville à expansion à course contrôlée, pour l'ancrage dans le béton non fissuré
3. Fabricant : Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. Système(s) d'évaluation et de vérification de la constance des performances : Système 1
5. Document d'évaluation européen : ETAG 001, Partie 4 - avril 2013  
Évaluation technique européenne : ETA-02/0044 - 01/03/2016  
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-02/0044<br>ETAG 001, Partie 4<br>Avril 2013 |
| Valeurs caractéristiques de la résistance à l'effort de traction et de contrainte transversale ainsi qu'à la flexion dans le béton | Voir les annexes C1 à C4     |                                                 |
| Distances au bord et entraxes                                                                                                      | Voir les annexes C1 à C2     |                                                 |
| Déplacements sous contrainte de traction et transversale                                                                           | Voir annexe C5               |                                                 |
| Protection incendie (BWR 2)                                                                                                        |                              |                                                 |
| Réaction au feu                                                                                                                    | Classe A1                    |                                                 |
| Résistance au feu                                                                                                                  | Pas de performance constatée |                                                 |

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

Signée pour le fabricant et en son nom par :



Frank Wolpert  
(Fondé de pouvoir – Directeur  
domaine Marché)



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

Künzelsau, le 01/04/2021

## DEARBHÚ FEIDHMÍOCHTA

Uimh. LE\_090401006\_02\_M\_W-ED(1)

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

1. Cód aitheantais uathúil an chineáil táirge: Dual dingeach Würth W-ED  
Uimh.Earra: 0904010\*; 0904040\*; 0904030\*
2. Úsáid(i) b(h)eartaithe: Ancaire leathnaithe faoi rialú cosán le haghaidh feistithe i gcoincreít neamhscoilte
3. Déantúsóir: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Córas 1
4. Córa(i)s chun seasmhacht feidhmíochta a mheas agus a scrúdú: ETAG 001 Cuid 4 - Aibreán 2013
5. Doiciméad Measúnaithe Eorpach: ETA-02/0044 - 01/03/2016  
Measúnú Teicniúil Eorpach: Deutsches Institut für Bautechnik, DIBt (Ionad Teicníocht Tógála na Gearmáine), Beirlín  
Ionad Measúnaithe Teicniúil: 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt (Institiúid um Fhoirgníocht Chruach agus Meicníocht Ábhair (IFSW), Darmstadt  
lona(i)d dá dtugtar fógra:
6. Feidhmíocht(aí) d(h)earbhaithe:

| Príomhthréithe                                                                                                                 | Feidhmíocht                      | Sonraíocht theicniúil chomhchuibhithe          |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Friotaíocht agus Cobhsaíocht Mheicniúil (BWR 1)                                                                                |                                  | ETA-02/0044<br>ETAG 001 Cuid 4<br>Aibreán 2013 |
| Luachanna saintréitheacha na frithsheasmhachta in aghaidh ualaí tarraingthe agus trasnacha chomh maith le lúbadh, i gcoincreít | Féach larscríbhinn C1 go C4      |                                                |
| Achair imill agus acastóra                                                                                                     | Féach larscríbhinn C1 go C2      |                                                |
| Aistrithe faoi strus tarraingthe agus trasnach                                                                                 | Féach larscríbhinn C5            |                                                |
| Cosaint dóiteáin (BWR 2)                                                                                                       |                                  |                                                |
| lompár i gcás dóiteáin                                                                                                         | Aicme A1                         |                                                |
| Friotaíocht i gcoinne tine                                                                                                     | Níor deimhníodh aon fheidhmíocht |                                                |

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

Síniú ar son agus thar ceann an déantúsóra ag:



Frank Wolpert  
(Oifigeach Údaraithe - Ceann na Roinne Margaidh)



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

Künzelsau, 01/04/2021

**ΔΗΛΩΣΗ ΕΠΙΔΟΣΕΩΝ****Αρ. LE\_090401006\_02\_M\_W-ED(1)**

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

1. Μοναδικός κωδικός αναγνώρισης του τύπου του προϊόντος: Καρφωτό αγκύριο Würth W-ED  
Αρ. είδ. 0904010\*, 0904040\*, 0904030\*
2. Σκοπός (-οί) χρήσης: Ελεγχόμενη διαδρομή εκτονούμενο αγκύριο για αγκύρωση σε μη ρηγματωμένο σκυρόδεμα
3. Κατασκευαστής: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. Σύστημα (-τα) για την αξιολόγηση και τον έλεγχο της διατήρησης της επίδοσης: Σύστημα 1
5. Ευρωπαϊκό έντυπο αξιολόγησης: ETAG 001 μέρος 4 - Απρίλιος 2013  
Ευρωπαϊκή τεχνική αξιολόγηση: ETA-02/0044 - 01.03.2016  
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-02/0044<br>ETAG 001 μέρος 4<br>Απρίλιος 2013 |
| Χαρακτηριστικές τιμές της αντίστασης έναντι εφελκυστικής και εγκάρσιας καταπόνησης καθώς και κάμψης σε σκυρόδεμα | Βλέπε παράρτημα C1 έως C4      |                                                  |
| Αποστάσεις ακμών και αποστάσεις αξόνων                                                                           | Βλέπε παράρτημα C1 έως C2      |                                                  |
| Μετατοπίσεις υπό εφελκυστική και εγκάρσια καταπόνηση                                                             | Βλέπε παράρτημα C5             |                                                  |
| <b>Πυροπροστασία (BWR 2)</b>                                                                                     |                                |                                                  |
| Συμπεριφορά σε πυρκαγιά                                                                                          | Κατηγορία A1                   |                                                  |
| Αντοχή σε πυρκαγιά                                                                                               | Δεν έχει προσδιοριστεί 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:



Frank Wolpert  
(Γενικός εμπορικός πληρεξούσιος -  
Διευθυντής τμήματος αγοράς)



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

Künzelsau, την 01.04.2021

**IZJAVA O SVOJSTVIMA**

Br. LE\_090401006\_02\_M\_W-ED(1)

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

1. Jedinstvena identifikacijska oznaka tipa proizvoda: Würth udarni zatik W-ED  
Br. art.: 0904010\*; 0904040\*; 0904030\*
2. Namjena(e): Razuporni zatik kontroliran putem za kotvljenje u nenapuknutom betonu
3. Proizvođač: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Sustav 1
4. Sustav/i za ocjenjivanje i provjeru postojanosti svojstava:
5. Europski dokument za ocjenjivanje: ETAG 001, dio 4 - travanj 2013.  
Europska tehnička ocjena: ETA-02/0044 - 1.3.2016.  
Tijelo za tehničku ocjenu: Njemački institut građevinarstva (DIBt), Berlin  
Prijavljeno/a tijelo/a: 2873, Institut za čelične konstrukcije i mehaniku materijala (IFSW), Darmstadt
6. Navedeno svojstvo/a:

| Bitna obilježja                                                                            | Svojstvo               | Usklađene tehničke specifikacije                 |
|--------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------|
| Mehanička čvrstoća i stabilnost (BWR 1)                                                    |                        | ETA-02/0044<br>ETAG 001, Dio 4.<br>travanj 2013. |
| Karakteristične vrijednosti otpora na uzdužno i poprečno opterećenje te savijanje u betonu | Vidi priloge C1 do C4  |                                                  |
| Udaljenost ruba i osi                                                                      | Vidi priloge C1 do C2  |                                                  |
| Pomicanja pri uzdužnom i poprečnom opterećenju                                             | Vidi prilog C5         |                                                  |
| Zaštita od požara (BWR 2)                                                                  |                        |                                                  |
| Ponašanje u slučaju požara                                                                 | Klasa A1               |                                                  |
| Otpornost na požar                                                                         | Nije određeno svojstvo |                                                  |

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

Potpisano za i u ime proizvođača od strane:



Frank Wolpert  
(Prokurist - voditelj odjela za tržište)



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

Künzelsau, 1.4.2021.

**TELJESÍTMÉNYNYILATKOZAT**

LE\_090401006\_02\_M\_W-ED(1) SZ.

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

1. A terméktípus egyedi azonosító kódja: Würth W-ED beütődübel  
Cikkszámok: 0904010\*; 0904040\*; 0904030\*
2. Felhasználási cél(ok): Útszabályozottan terpesztő dübel repedés nélküli betonban való horgonyzáshoz
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: ETAG 001, 4. rész - 2013. április  
Európai Műszaki Értékelés: ETA-02/0044 - 2016.03.01.  
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-02/0044<br><br>ETAG 001, 4. rész<br>2013. április |
| Húzó és keresztirányú igénybevétellel, valamint a betonban való elhajlással szembeni jellemző ellenállási értékek | Lásd a C1 – C4 melléleteket     |                                                       |
| Perem- és tengelytávolságok                                                                                       | Lásd a C1 – C2 melléleteket     |                                                       |
| Elmozdulások húzó és keresztirányú igénybevétel esetén                                                            | Lásd a C5 mellékletet           |                                                       |
| <b>Tűzvédelem (BWR 2)</b>                                                                                         |                                 |                                                       |
| Tűzzel szembeni viselkedés                                                                                        | A1 osztály                      |                                                       |
| Tűzállóság                                                                                                        | Teljesítmény nincs meghatározva |                                                       |

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:



Frank Wolpert

(cégvezető – piac szakterület vezetője)



Dr. -Ing. Siegfried Beichter

(cégvezető – minőségügyi vezető)

Künzelsau, 2021.04.01.

## DICHIARAZIONE DI PRESTAZIONE

**N. LE\_090401006\_02\_M\_W-ED(1)**

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

- |                                                           |                                                                                                       |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1. Codice di identificazione unico del prodotto-tipo:     | Würth Einschlagdübel W-ED (Tassello a percussione Würth W-ED)<br>Art. n. 0904010*; 0904040*; 0904030* |
| 2. Utilizzo/i previsto/i:                                 | Tassello ad espansione a percorso controllato per l'ancoraggio nel calcestruzzo non fessurato         |
| 3. Azienda produttrice:                                   | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                       |
| 4. Sistema/i di valutazione e verifica della prestazione: | Sistema 1                                                                                             |
| 5. Documento per la Valutazione Europea:                  | ETAG 001 Parte 4 - aprile 2013                                                                        |
| Valutazione tecnica europea:                              | ETA-02/0044 - 01.03.2016                                                                              |
| Organismo di valutazione tecnica:                         | Deutsches Institut für Bautechnik (DIBt), Berlino                                                     |
| Organismo/i notificato/i:                                 | 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt                                   |
| 6. Prestazione/i dichiarata/e:                            |                                                                                                       |

| Caratteristiche essenziali                                                                                    | Prestazione                     | Norma tecnica armonizzata                          |
|---------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------|
| <b>Resistenza meccanica e stabilità (BWR 1)</b>                                                               |                                 | ETA-02/0044<br><br>ETAG 001 Parte 4<br>aprile 2013 |
| Valori caratteristici di resistenza ai carichi a trazione e orizzontali, nonché di flessione nel calcestruzzo | Si vedano allegati da C1 a C4   |                                                    |
| Distanze dai bordi e interassi                                                                                | Si vedano Allegati da C1 a C2   |                                                    |
| Variazioni sotto carichi a trazione e orizzontali                                                             | Si veda Allegato C5             |                                                    |
| <b>Sicurezza in caso di incendio (BWR 2)</b>                                                                  |                                 |                                                    |
| Reazione al fuoco                                                                                             | Classe A1                       |                                                    |
| Resistenza al fuoco                                                                                           | Nessuna prestazione determinata |                                                    |

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

Firmato a nome e per conto del fabbricante da:



Frank Wolpert  
(Procuratore - Responsabile Settore  
Mercato)



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

Künzelsau, 01.04.2021

## EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

Nr. LE\_090401006\_02\_M\_W-ED(1)

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

1. Produkto tipo unikalus atpažinimo kodas: „Würth“ fiksavimo kaištis W-ED  
Prekės Nr. 0904010\*; 0904040\*; 0904030\*
2. Naudojimo paskirtis (-ys): Kontroluojamos apkrovos plėtimo kaištis tvirtinimui nesuskilinėjusiame 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): ETAG 001, 4 dalis, 2013 m. balandžio mėn.
5. Europos įvertinimo dokumentas: ETA-02/0044, atliktas 2016-03-01  
Europos techninis įvertinimas: „Deutsches Institut für Bautechnik (DIBt)“, Berlynas  
Techninio vertinimo įstaiga: 2873, „Institut für Stahlbau und Werkstoffmechanik“ (IFSW), Darmštatas  
Notifikuotoji (-osios) įstaiga (-os):
6. Deklaruojama (-os) eksploatacinė (-s) savybė (-s):

| Pagrindinės charakteristikos                                          | Eksploatacinės savybės   | Darnusis techninis standartas                              |
|-----------------------------------------------------------------------|--------------------------|------------------------------------------------------------|
| <b>Mechaninis stiprumas ir stabilumas (BWR 1)</b>                     |                          | ETA-02/0044<br>ETAG 001, 4 dalis<br>2013 m. balandžio mėn. |
| Būdingas atsparumas tempimui ir skersinei įtampai bei lenkimui betone | Žr. priedą nuo C1 iki C4 |                                                            |
| Krašto ir ašių atstumai                                               | Žr. priedą nuo C1 iki C2 |                                                            |
| Poslinkiai veikiant tempimui ir skersinei įtampai                     | Žr. C5 priedą.           |                                                            |
| <b>Priešgaisrinė apsauga (BWR 2)</b>                                  |                          |                                                            |
| Degumas                                                               | A1 klasė                 |                                                            |
| Atsparumas ugniai                                                     | Galia nenustatyta        |                                                            |

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

Pasirašo gamintojas ir atstovas gamintojo vardu:



Frank Wolpert  
(Ilgaliotasis rinkos vadovas)



Dr. inž. Siegfried Beichter  
(Ilgaliotasis kokybės vadovas)

Kiuncelsau, 2021-04-01

**EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA****Nr. LE\_090401006\_02\_M\_W-ED(1)**

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

1. Unikālais izstrādājuma tipa identifikācijas numurs: Würth iedzenamais dībelis W-ED  
Preces Nr. 0904010\*; 0904040\*; 0904030\*
2. Lietojuma mērķis(-i): Virzību kontrolējošs izplešanās dībelis enkurošanai nesaplaisājušā betonā
3. Ražotājs: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 – 17  
D – 74653 Künzelsau (Kincelzava, Vācija)
4. Eksploatācijas īpašību noturības novērtējuma un pārbaudes sistēma(-as): 1. sistēma
5. Eiropas novērtējuma dokuments: ETAG 001 4. daļa – 2013. gada aprīlis  
Eiropas Tehniskais novērtējums: ETA-02/0044 – 01.03.2016.  
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                          |
|------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------|
| Mehāniskā izturība un stiprība (BWR 1)                                             |                             | ETA-02/0044<br><br>ETAG 001 4. daļa<br>2013. gada aprīlis |
| Raksturīgie pretestības parametri pret stiepes un šķērsslodzi, kā arī lieci betonā | skatīt C1 līdz C4 pielikumu |                                                           |
| Malas un ass attālumi                                                              | skatīt C1 līdz C2 pielikumu |                                                           |
| Bīde stiepes un šķērsslodzes ietekmē                                               | Skatīt C5 pielikumu         |                                                           |
| Ugunsdrošība (BWR 2)                                                               |                             |                                                           |
| Degšanas īpašības                                                                  | A1 klase                    |                                                           |
| Ugunsizturība                                                                      | Parametri nav noteikti      |                                                           |

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:



Frank Wolpert (Franks Wolperts)

(Prokūrists – Tirgus nodaļas vadītājs)



Dr. -Ing. Siegfried Beichter (Dr. ing.  
Zigfrīds Beichters)

(Prokurist – Leiter Qualität (prokūrists –  
kvalitātes sistēmas vadītājs))

Künzelsau (Kincelzava), 01.04.2021.

## DIKJARAZZJONI TA' PRESTAZZJONI

Nru LE\_090401006\_02\_M\_W-ED(1)

**Din hija l-verżjoni tradotta mill-Ġermaniż.**

**F'każ ta' dubju jgħodd id-dokument oriġinali bil-lingwa Ġermaniża**

- |                                                                                                                                  |                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Kodiċi uniku ta' identifikazzjoni tat-tip ta' prodott:                                                                        | Würth Ankra b'Feles W-ED<br>Nru tal-oġġett 0904010*; 0904040*; 0904030*                                                                                                                       |
| 2. Użu/i intenzjonat/i:                                                                                                          | Kavilja li tespandi b'deformazzjoni kkontrollata għall-ankraġġ fil-konkrit mhux maqsum                                                                                                        |
| 3. Manifattur:                                                                                                                   | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                               |
| 4. Sistema jew sistemi ta' valutazzjoni u verifika tal-kostanza ta' prestazzjoni:                                                | Sistema 1                                                                                                                                                                                     |
| 5. Dokument Ewropew ta' valutazzjoni:<br>Valutazzjoni Teknika Ewropea:<br>Korp tal-valutazzjoni teknika:<br>Korp/i nnotifikat/i: | ETAG 001 Parti 4 - April 2013<br>ETA-02/0044 - 01/03/2016<br>Deutsches Institut für Bautechnik (DIBt), Berlin<br>2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt, Germany |
| 6. Prestazzjoni/jiet ddikjarata/i:                                                                                               |                                                                                                                                                                                               |

| Karatteristiċi essenzjali                                                                                    | Prestazzjoni                   | Speċifikazzjoni teknika armonizzata           |
|--------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------|
| Stabbiltà u ebusija mekkanika (BWR 1)                                                                        |                                | ETA-02/0044<br>ETAG 001 Parti 4<br>April 2013 |
| Valuri karatteristiċi tar-reżistenza kontra l-istress tensili u transversali kif ukoll it-tgħawwiġ f'konkrit | Ara l-Annessi C1 sa C4         |                                               |
| Distanzi mit-tarf u mill-assi                                                                                | Ara l-Annessi C1 sa C2         |                                               |
| Spostamenti taħt stress tensili u transversali                                                               | Ara l-Anness C5                |                                               |
| Protezzjoni kontra n-nar (BWR 2)                                                                             |                                |                                               |
| Reazzjoni għan-nar                                                                                           | Klassi A1                      |                                               |
| Reżistenza kontra n-nar                                                                                      | Ebda prestazzjoni ddeterminata |                                               |

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

Iffirmat għal u f'isem il-manifattur minn:



Frank Wolpert

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



Dr. -Ing. Siegfried Beichter

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

Künzelsau, 01/04/2021

**PRESTATIEVERKLARING****Nr. LE\_090401006\_02\_M\_W-ED(1)**

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

1. Eenduidige identificatiecode van het producttype: Würth slaganker W-ED  
Art.nr. 0904010\*; 0904040\*; 0904030\*
2. Gebruiksdoel(en): Spreidend anker met wegcontrole voor verankering in ongescheurd 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: ETAG 001 deel 4 - april 2013  
Europese technische beoordeling: ETA-02/0044 - 01/03/2016  
Technische beoordelingsinstantie: Deutsches Institut für Bautechnik (DIBt), Berlijn  
Aangemelde instantie(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Vastgestelde prestatie(s):

| Belangrijkste eigenschappen                                                                | Prestatie                  | Geharmoniseerde technische specificatie      |
|--------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|
| <b>Mechanische sterkte en stabiliteit (BWR 1)</b>                                          |                            | ETA-02/0044<br>ETAG 001 deel 4<br>april 2013 |
| Karakteristieke waarden van de weerstand tegen trek- en dwarsbelasting en buiging in beton | Zie bijlage C1 t/m C4      |                                              |
| Rand- en asafstanden                                                                       | Zie bijlage C1 en C2       |                                              |
| Verschuivingen onder trek- en dwarsbelasting                                               | Zie bijlage C5             |                                              |
| <b>Brandveiligheid (BWR 2)</b>                                                             |                            |                                              |
| 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:



Frank Wolpert  
(Procuratiehouder - Hoofd Marketing)



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

Künzelsau, 01/04/2021

**YTELSESERKLÆRING****Nr. LE\_090401006\_02\_M\_W-ED(1)**

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

1. Entydig kode for produkttypen: Würth innslagsplugg W-ED  
Art.-nr. 0904010\*; 0904040\*; 0904030\*
2. Bruksområde: Veikontrollert ekspanderende plugg til forankring i hel 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: System 1
5. Europeisk vurderingsdokument: ETAG 001 del 4 - april 2013  
Europeisk teknisk godkjenning: ETA-02/0044 - 01.03.2016  
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-02/0044<br>ETAG 001 del 4<br>April 2013 |
| Karakteristiske verdier for motstand mot strekk- og tverrbelastning samt bøyning i betong | Se vedlegg C1 til C4  |                                             |
| Kant- og akselavstander                                                                   | Se vedlegg C1 til C2  |                                             |
| Forskyvninger under strekk- og tverrlastbelastning                                        | Se vedlegg C5         |                                             |
| <b>Brannvern (BWR 2)</b>                                                                  |                       |                                             |
| Egenskaper ved brann                                                                      | Klasse A1             |                                             |
| Brannmotstand                                                                             | Ingen ytelse fastlagt |                                             |

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:



Frank Wolpert  
(prokurist – leder området marked)



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

Künzelsau, den 01.04.2021

## DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH

Nr LE\_090401006\_02\_M\_W-ED(1)

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

- |                                                                                                                                            |                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Niepowtarzalny kod identyfikacyjny typu produktu:                                                                                       | Würth kołek wbijany W-ED<br>Nr artykułu 0904010*; 0904040*; 0904030*                                                                                                                                                                            |
| 2. Przeznaczenie:                                                                                                                          | kołek rozporowy o kontrolowanej drodze do kotwienia w betonie niezarysowanym                                                                                                                                                                    |
| 3. Producent:                                                                                                                              | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                                                                                                                                 |
| 4. System (systemy) oceny i weryfikacji stałości właściwości użytkowych:                                                                   | System 1                                                                                                                                                                                                                                        |
| 5. Europejski dokument oceny:<br>Europejska Ocena Techniczna:<br>Placówka sporządzająca ocenę techniczną:<br>Jednostka/-i notyfikowana/-e: | ETAG 001 część 4 - kwiecień 2013 r.<br>ETA-02/0044 - 01.03.2016 r.<br>Deutsches Institut für Bautechnik (DIBt), Berlin<br><br>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-02/0044<br>ETAG 001 część 4<br>kwiecień 2013 r. |
| Wartości charakterystyczne oporu przy rozciąganiu i obciążeniu poprzecznym oraz wygięciu w betonie | Patrz załącznik C1 do C4 |                                                     |
| Odstępy na obrzeżu i odstępy osi                                                                   | Patrz załącznik C1 do C2 |                                                     |
| Przesunięcia w razie rozciągania i obciążenia poprzecznego                                         | Patrz załącznik C5       |                                                     |
| Ochrona przeciwpożarowa (BWR 2)                                                                    |                          |                                                     |
| Klasyfikacja ogniowa                                                                               | Klasa A1                 |                                                     |
| Odporność ogniowa                                                                                  | Nie ustalono 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:



Frank Wolpert  
(Prokurent – Kierownik działu ds. rynku)



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

Künzelsau, dnia 01.04.2021 r.

**DECLARAÇÃO DE DESEMPENHO****N.º LE\_090401006\_02\_M\_W-ED(1)****Versão traduzida da versão alemã.****Em caso de dúvida, é válido o original em alemão**

1. Código de identificação inequívoco do tipo de produto: Bucha de impacto W-ED Würth  
N.º art. 0904010\*; 0904040; 0904030\*
2. Fim/fins de utilização: Bucha de expansão, de deformação controlada para ancoragem em betão não fendilhado
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: ETAG 001 parte 4 - abril de 2013  
Avaliação Técnica Europeia: ETA-02/0044 - 01.03.2016  
Organismo de Avaliação Técnica: Deutsches Institut für Bautechnik (DIBt), Berlim  
Organismo(s) notificado(s): 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. Desempenho(s) declarado(s):

| Características essenciais                                                                                               | Desempenho                 | Especificação técnica harmonizada                |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|
| <b>Resistência mecânica e estabilidade (BWR 1)</b>                                                                       |                            | ETA-02/0044<br>ETAG 001 parte 4<br>Abril de 2013 |
| Valores característicos da resistência contra esforço de tração e esforço transversal, assim como contra flexão no betão | Ver anexo C1 a C4          |                                                  |
| Distâncias aos bordos e distâncias entre eixos                                                                           | Ver anexo C1 a C2          |                                                  |
| Deslocações sob esforço de tração e esforço transversal                                                                  | Veja anexo C5              |                                                  |
| <b>Proteção contra incêndio (BWR 2)</b>                                                                                  |                            |                                                  |
| Reação ao fogo                                                                                                           | Classe A1                  |                                                  |
| Resistência ao fogo                                                                                                      | Desempenho não determinado |                                                  |

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:



Frank Wolpert  
(Procurador - Diretor do segmento do mercado)



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

Künzelsau, a 01.04.2021

## DECLARAȚIE DE PERFORMANȚĂ

Nr. LE\_090401006\_02\_M\_W-ED(1)

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

- |                                                                       |                                                                                                                                       |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1. Cod unic de identificare al tipului de produs:                     | Diblu W-ED Würth<br>Nr. art. 0904010*; 0904040*; 0904030*                                                                             |
| 2. Scopul sau scopurile de utilizare:                                 | Diblu de expansiune cu traseu controlat, pentru ancorarea în beton nefisurat                                                          |
| 3. Producător:                                                        | Adolf Würth GmbH & Co. KG<br>Reinhold- Würth-Str. 12 - 17<br>D - 74653 Künzelsau                                                      |
| 4. Sistem(e) pentru evaluarea și verificarea constanței performanței: | Sistem 1                                                                                                                              |
| 5. Document european de evaluare:                                     | ETAG 001 Partea a 4-a Aprilie 2013                                                                                                    |
| Evaluare tehnică europeană:                                           | ETA-02/0044 - 01.03.2016                                                                                                              |
| 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-02/0044<br>ETAG 001 Partea a 4-a<br>Aprilie 2013 |
| Valori caracteristice ale rezistenței împotriva solicitării la tracțiune și a solicitării transversale, precum și încovoierii în beton | A se vedea anexa C1 până la C4 |                                                      |
| Distanțe față de margini și față de axă                                                                                                | A se vedea anexa C1 până la C2 |                                                      |
| Deplasări în condiții de solicitare la tracțiune și solicitare transversală                                                            | A se vedea anexa C5            |                                                      |
| Protecție contra incendiilor (BWR 2)                                                                                                   |                                |                                                      |
| Comportament la incendiu                                                                                                               | Clasa A1                       |                                                      |
| Rezistență la foc                                                                                                                      | Nicio performanță determinată  |                                                      |

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

Semnată pentru și în numele producătorului, de către:



Frank Wolpert  
(Reprezentant legal – director  
departament marketing)



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

Künzelsau, 01.04.2021

## ДЕКЛАРАЦИЯ ХАРАКТЕРИСТИК

№ LE\_090401006\_02\_M\_W-ED(1)

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

- |                                                                                                                                  |                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Однозначная маркировка типа продукта:                                                                                         | Забивной дюбель Würth W-ED<br>Арт.№ 0904010*; 0904040*; 0904030*                                                                                                                                               |
| 2. Цель(и) применения:                                                                                                           | Дюбель с контролем перемещения для закрепления в бетоне без трещин                                                                                                                                             |
| 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:<br>Европейская техническая оценка:<br>Орган технической оценки<br>Уполномоченный(е) орган(ы): | ETAG 001 Часть 4 - апрель 2013<br>ETA-02/0044 - 01.03.2016<br>Германский институт строительных технологий (DIBt), Берлин<br>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-02/0044<br>ETAG 001 Часть 4<br>апрель 2013 |
| Типичные значения сопротивления растягивающим и сдвигающим нагрузкам, а также изгибу в бетоне | См. Приложения с C1 по C4    |                                                |
| Расстояния от краев и межосевые расстояния                                                    | См. Приложения с C1 по C2    |                                                |
| Смещения при растягивающих и сдвигающих нагрузках                                             | См. Приложение C5            |                                                |
| <b>Противопожарная защита (BWR 2)</b>                                                         |                              |                                                |
| Огнестойкость                                                                                 | Класс A1                     |                                                |
| 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:



Франк Вольперт  
(Прокурис - Нач. отд. маркетинга)



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

Кюнцельзау, 01.04.2021

**VYHLÁSENIE O VLASTNOSTIACH****Č. LE\_090401006\_02\_M\_W-ED(1)**

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

1. Jednoznačný identifikačný kód typu: Zarážacia hmoždinka Würth W-ED  
Výr. č.: 0904010\*; 0904040\*; 0904030\*
2. Účel(y) použitia: Rozpínacia hmoždinka kontrolujúca dráhu na ukotvenie v nepopraskanom betóne
3. Výrobca: Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau  
Systém 1
4. Systém (systémy) na posudzovanie a overovanie odolnosti parametrov: Systém 1
5. Európsky vyhodnocovací dokument: ETAG 001 Časť 4 - apríl 2013  
Európske technické posúdenie: ETA-02/0044 - 01. 03. 2016  
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         |
|-------------------------------------------------------------------------------------|------------------------|----------------------------------------------|
| <b>Mechanická pevnosť a stabilita (BWR 1)</b>                                       |                        | ETA-02/0044<br>ETAG 001 Časť 4<br>apríl 2013 |
| Charakteristické hodnoty odolnosti v ťahu a priečnom namáhaní ako aj ohybe v betóne | Pozri dodatok C1 až C4 |                                              |
| Okrajové a stredové vzdialenosti                                                    | Pozri dodatok C1 až C2 |                                              |
| Posuny pri ťahovom a priečnom namáhaní                                              | Pozri prílohu C5       |                                              |
| <b>Protipožiarna ochrana (BWR 2)</b>                                                |                        |                                              |
| Reakcia látky pri požiari                                                           | Trieda A1              |                                              |
| Požiarna odolnosť                                                                   | Nezistený žiadny 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:



Frank Wolpert  
(Prokurista - vedúci oblasti trhu)



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

Künzelsau, dňa 01. 04. 2021

## IZJAVA O LASTNOSTIH

Št. LE\_090401006\_02\_M\_W-ED(1)

**To besedilo je prevod iz nemščine.  
Ob dvomu velja nemški izvirnik**

- |                                                                                                                                       |                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Enotna identifikacijska oznaka tipa izdelka:                                                                                       | Pritrdilni zatič Würth W-ED<br>Št. art. 0904010*; 0904040*; 0904030*                                                                                                                     |
| 2. Nameni uporabe:                                                                                                                    | Vložek z nadzorovano potjo raztezanja za sidranje v nerazpokanem betonu                                                                                                                  |
| 3. Proizvajalec:                                                                                                                      | Adolf Würth GmbH & Co. KG<br>Reinhold-Würth-Str. 12 - 17<br>D - 74653 Künzelsau, Nemčija                                                                                                 |
| 4. Sistemi za vrednotenje in preverjanje trajnosti lastnosti:                                                                         | Sistem 1                                                                                                                                                                                 |
| 5. Evropski ocenjevalni dokument:<br>Evropsko tehnično vrednotenje:<br>Organ, ki je opravil tehnično vrednotenje:<br>Obveščeni organ: | ETAG 001, 4. del - april 2013<br>ETA-02/0044 - 1. 3. 2016<br>Deutsches Institut für Bautechnik (DIBt), Berlin<br><br>2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt |
| 6. Navedene lastnosti:                                                                                                                |                                                                                                                                                                                          |

| Bistvene značilnosti                                                              | Lastnost                   | Harmonizirana tehnična specifikacija          |
|-----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|
| Mehanska trdnost in stabilnost (BWR 1)                                            |                            | ETA-02/0044<br>ETAG 001, 4. del<br>april 2013 |
| Značilne vrednosti upora pri vlečni in prečni obremenitvi ter upogibanju v betonu | Glejte Priloge od C1 do C4 |                                               |
| Razdalje od robov in osi                                                          | Glejte Priloge od C1 do C2 |                                               |
| Premikanje pod vlečno in prečno obremenitvijo                                     | Glejte Prilogo C5          |                                               |
| Protipožarna zaščita (BWR 2)                                                      |                            |                                               |
| Požarne lastnosti                                                                 | Razred A1                  |                                               |
| Požarna odpornost                                                                 | Zmogljivost ni določena    |                                               |

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

Podpis za proizvajalca in v njegovem imenu:



Frank Wolpert  
(prokurist - vodja oddelka za trženje)



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

Künzelsau, 1. 4. 2021

**PRESTANDEDEKLARATION****Nr. LE\_090401006\_02\_M\_W-ED(1)**

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

1. **Produktypens unika identifikationskod:** Würth slagplugg W-ED  
Art.-nr. 0904010\*; 0904040\*; 0904030\*
2. **Användningsändamål:** Vägkontrollerad expansionsplugg för förankring i osprucken betong
3. **Tillverkare:** Adolf Würth GmbH & Co. KG  
Reinhold-Würth-Str. 12 - 17  
D - 74653 Künzelsau
4. **System för bedömning och kontroll av prestandabeständighet:** System 1
5. **Europeiskt bedömningsdokument:** ETAG 001 del 4 - april 2013  
**Europeisk teknisk bedömning:** ETA-02/0044 - 2016-03-01  
**Tekniskt bedömningsorgan:** Deutsches Institut für Bautechnik (DIBt), Berlin  
**Notificerade organ:** 2873, Institut für Stahlbau und Werkstoffmechanik (IFSW), Darmstadt
6. **Deklarerad prestanda:**

| Väsentliga egenskaper                                                                          | Prestanda               | Harmoniserad teknisk specifikation          |
|------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------|
| Mekanisk hållfasthet och stabilitet (BWR 1)                                                    |                         | ETA-02/0044<br>ETAG 001 del 4<br>april 2013 |
| Karakteristiska värden för motstånd mot dragpåkänning och tvärbelastning samt böjning i betong | Se Bilaga C1 till C4    |                                             |
| Kant- och axelavstånd                                                                          | Se Bilaga C1 till C2    |                                             |
| Förskjutning under dragpåkänning och tvärbelastning                                            | Se Bilaga C5            |                                             |
| Brandskydd (BWR 2)                                                                             |                         |                                             |
| Branduppförande                                                                                | Klass A1                |                                             |
| Brandmotstånd                                                                                  | Ingen prestanda bestämd |                                             |

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

Undertecknad för tillverkaren och på tillverkarens vägnar av:



Frank Wolpert  
(Prokurist - Chef Område marknad)



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

Künzelsau, 2021-04-01

**PERFORMANS BEYANI****No. LE\_090401006\_00\_M\_W-ED(1)**

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

1. Ürün tipinin açık kodu: Würth Çakma dübel W-ED  
Ürün No. 0904010\*; 0904040\*; 0904030\*
2. Kullanma amacı (amaçları): Yırtılmamış betona ankraj amacıyla deformasyonu kontrol edilmiş çelik 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: ETAG 001 Bölüm 4 - Nisan 2013  
Avrupa Teknik Değerlendirmesi: ETA-02/0044 - 01.03.2016  
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-02/0044<br>ETAG 001 Bölüm<br>4 Nisan 2013 |
| Direncin çekme yüküne ve yan yüke ve betonda bükülmeye karşı karakteristik değerleri | Bkz. Ek C1 ila C4           |                                               |
| Kenar ve eksen mesafeleri                                                            | Bkz. Ek C1 ila C2           |                                               |
| Çekme yükleri ve yan yükler altında kaydırmalar                                      | Bkz. Ek C5                  |                                               |
| <b>Yangından koruma (BWR 2)</b>                                                      |                             |                                               |
| Yangındaki tutum                                                                     | Sınıf A1                    |                                               |
| Yangına dayanıklılık                                                                 | Bir performans belirlenmedi |                                               |

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:



Frank Wolpert  
(İmzaya Yetkili Pazarlar Bölümü  
Yöneticisi)



Dr. Müh. Siegfried Beichter  
(İmzaya Yetkili Kalite Yöneticisi)

Künzelsau, 01.04.2021