

## DECLARATION OF PERFORMANCE

### DoP 0391

for fischer injection system FIS V Plus (Bonded fastener for use in concrete)

EN


1. Unique identification code of the product-type: **DoP 0391**
2. Intended use/es: **Post-installed fastening in cracked or uncracked concrete, see appendix, especially annexes B1 - B14.**
3. Manufacturer: **fischerwerke GmbH & Co. KG, Otto-Hahn-Straße 15, 79211 Denzlingen, Germany**
4. Authorised representative: **-**
5. System/s of AVCP: **1**
6. European Assessment Document: **EAD 330499-02-0601**  
European Technical Assessment: **ETA-20/0603; 2026-01-29**  
Technical Assessment Body: **DIBt- Deutsches Institut für Bautechnik**  
Notified body/ies: **2873 TU Darmstadt**
7. Declared performance/s:  
**Mechanical resistance and stability (BWR 1)**  
**Characteristic resistance to tension load (static and quasi-static loading):**
  - 1) Resistance to steel failure: see appendix, especially annexes C1-C4
  - 2) Resistance to combined pull- out and concrete cone failure: see appendix, especially annexes C5-C11
  - 3) Resistance to concrete cone failure: see appendix, especially annex C5
  - 4) Edge distance to prevent splitting under load: see appendix, especially annex C5
  - 5) Robustness: see appendix, especially annexes C5 - C11
  - 6) Maximum installation torque: see appendix, especially annexes B3, B4, B5, B7
  - 7) Minimum edge distance and spacing: see appendix, especially annexes B3 - B9**Characteristic resistance to shear load (static and quasi-static loading):**
  - 8) Resistance to steel failure: see appendix, especially annexes C1-C4
  - 9) Resistance to pry-out failure: see appendix, especially annex C5
  - 10) Resistance to concrete edge failure: see appendix, especially annex C5**Displacements under short-term and long-term loading:**
  - 11) Displacements under short-term and long-term loading: see appendix, especially annexes C12, C13
  - 12) Resistance in steel fibre reinforced concrete: NPD**Characteristic resistance and displacements for seismic performance categories C1 and C2:**
  - 13) Resistance to tension load, displacements, category C1: see appendix, especially annexes C14,C16,C17
  - 14) Resistance to tension load, displacements, category C2: see appendix, especially annexes C15,C16,C18
  - 15) Resistance to shear load, displacements, category C1: see appendix, especially annexes C14,C16,C17
  - 16) Resistance to shear load, displacements, category C2: see appendix, especially annexes C15,C16,C18**Safety in case of fire (BWR 2)**
  - 17) Reaction to fire: Class (A1)**Resistance to fire:**
  - 18) Fire resistance to steel failure (tension load): NPD
  - 19) Bond resistance under fire conditions: NPD
  - 20) Fire resistance to steel failure under shear loading: NPD**Hygiene, health and the environment (BWR 3)**
  - 21) Content, emission and/or release of dangerous substances: NPD
8. Appropriate Technical Documentation and/or Specific Technical Documentation: **-**

The performance of the product identified above is in conformity with the set of 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:



Alexander Zanocco, Managing Director Sales and Managing Director Research & Development



Dieter Pfaff, Head of International Production Federation and Quality Management

Tumlingen, 2026-03-01

This DoP has been prepared in different languages. In case there is a dispute on the interpretation the English version shall always prevail.

The Appendix includes voluntary and complementary information in English language exceeding the (language-neutrally specified) legal requirements.

Mechanical resistance and stability (BWR 1)		
Characteristic resistance to tension load (static and quasi-static loading):		
1	Resistance to steel failure:	$N_{Rk,s}$ [kN]
2	Resistance to combined pull-out and concrete cone failure:	$\tau_{Rk}$ and/or $\tau_{Rk,100}$ [N/mm <sup>2</sup> ], $\psi_c, \psi_{sus}^0, \psi_{sus,100}$ [-] (BF)
	Resistance to pull-out failure:	$N_{Rk,p}$ and/or $N_{Rk,p,100}$ [kN], $\psi_c$ [-] (BEF)
3	Resistance to concrete cone failure:	$c_{cr,N}$ [mm], $k_{cr,N}, k_{ucr,N}$ [-]
4	Edge distance to prevent splitting under load:	$c_{cr,sp}$ [mm]
5	Robustness:	$\gamma_{inst}$ [-]
6	Maximum installation torque:	$\max T_{inst}$ [Nm] (BF)
	Installation torque:	$T_{inst}$ [Nm] (BEF)
7	Minimum edge distance, spacing and member thickness:	$c_{min}, s_{min}, h_{min}$ [mm]
Characteristic resistance to shear load (static and quasi-static loading):		
8	Resistance to steel failure:	$V_{Rk,s}^0$ [kN], $M_{Rk,s}^0$ [Nm], $k_7$ [-]
9	Resistance to pry-out failure:	$k_8$ [-]
10	Resistance to concrete edge failure:	$d_{nom}, l_f$ [mm]
Displacements under short-term and long-term loading:		
11	Displacements factors under short-term and long-term loading:	$\delta_0, \delta_\infty$ [mm/(N/mm <sup>2</sup> )] or [mm/kN]
12	Resistance in steel fibre reinforced concrete:	Description
Characteristic resistance and displacements for seismic performance categories C1 and C2:		
13	Resistance to tension for seismic performance category C1	$N_{Rk,s,C1}$ [kN] (all) $\tau_{Rk,C1}$ [N/mm <sup>2</sup> ] (BF) $N_{Rk,p,C1}$ [kN] (BEF)
14	Resistance to tension and displacements for seismic performance category C2	$N_{Rk,s,C2}$ [kN] (all) $\tau_{Rk,C2}$ [N/mm <sup>2</sup> ] (BF) $N_{Rk,p,C2}$ [kN] (BEF) $\delta_{N,C2(50\%)}, \delta_{N,C2(100\%)}$ [mm] (all)
15	Resistance to shear for seismic performance category C1	$V_{Rk,s,C1}$ [kN] (all)
16	Resistance to shear load and displacements for seismic performance category C2	$V_{Rk,s,C2}$ [kN] (all) $\delta_{V,C2(50\%)}, \delta_{V,C2(100\%)}$ [mm] (all)
Safety in case of fire (BWR 2)		
17	Reaction to fire	Class
Resistance to fire		
18	Fire resistance to steel failure (tension load):	$N_{Rk,s,fi}$ [kN]
19	Bond resistance under fire conditions:	$k_{fi,p}(\theta)$ [-], $\tau_{Rk,fi}(\theta)$ [N/mm <sup>2</sup> ] (BF)
20	Fire resistance to steel failure under shear loading:	$V_{Rk,s,fi}$ [kN], $M_{Rk,s,fi}^0$ [Nm]
Hygiene, health and the environment (BWR 3)		
21	Content, emission and/or release of dangerous substances:	Description/Level