PFEIFER Seil- und Hebetechnik GmbH
Dr. Karl-Lenz-Straße 66
87700 Memmingen, Germany

Declaration of performance Nr. 338/PWC/02-2021

1. Unique identification code of the product-type:

   PFEIFER Wall Shoe PWC

2. Intended use:

   The PFEIFER Wall Shoes are intended to be used together with the PFEIFER Foundation Anchors in order to firmly connect prefabricated reinforced concrete walls of strength class C30/37 or higher to floor slabs using a screw connection. For this purpose, the wall shoes are installed on the face side of prefabricated walls, while the foundation anchors are anchored in previously made foundations, floor slabs or walls (top extremities). The connection system may be used to produce pinned as well as rigid connections in order to transmit tensile forces as planned.

Product sizes:	*PWC-16, 20, 24, 30, 36, 39, 30-HF, 36-HF* *PWC-O16, O20, O24, O30, O36, O39, O30-HF, O36-HF*
Material components and properties:	*Steel S355J2+N according to the EN 10025-2* *Steel concrete reinforcing bars B500B*
Definition of loading:	*Static and quasi-static loading – tensile forces*

3. Manufacturer:

   PFEIFER Seil- und Hebetechnik GmbH
   Dr.-Karl-Lenz-Straße 66
   D-87700 Memmingen, Germany

4. Authorised representative:

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5. System/s of AVCP:

   System 2+

6. Harmonised standard:

   EN 1090-1:2012-02

7. Design basis:

DIN EN 1990:2010-12	*Eurocode 0: Grundlagen der Tragwerksplanung*
DIN EN 1990/NA:2010-12 *DIN EN 1990/NA/A1:2012-08*	*Eurocode 0: Grundlagen der Tragwerksplanung* *Nationaler Anhang - National festgelegte Parameter incl. Änderung A1*
DIN EN 1992-1-1:2011-01 *DIN EN 1992-1-1/A1:2015-03*	*Eurocode 2: Bemessung und Konstruktion von Stahlbeton- und Spannbetontragwerken* *Teil 1-1: Allgemeine Bemessungsregeln und Regeln für den Hochbau, incl. Änderung A1*
DIN EN 1992-1/NA:2013-04 *DIN EN 1992/NA/A1:2015-12*	*Eurocode 2: Bemessung und Konstruktion von Stahlbeton- und Spannbetontragwerken* *Teil 1-1: Allgemeine Bemessungsregeln und Regeln für den Hochbau* *Nationaler Anhang - National festgelegte Parameter, incl. Änderung A1*
DIN EN 1993-1-1:2010-12 *DIN EN 1993/A1:2014-07*	*Eurocode 3: Bemessung und Konstruktion von Stahlbauten* *Teil 1-1: Allgemeine Bemessungsregeln und Regeln für den Hochbau, incl. Änderung A1*
DIN EN 1993-1-1/NA:2018-12	*Eurocode 3: Bemessung und Konstruktion von Stahlbauten* *Teil 1-1: Allgemeine Bemessungsregeln und Regeln für den Hochbau* *Nationaler Anhang - National festgelegte Parameter*
DIN EN 1993-1-8:2010-12	*Eurocode 3: Bemessung und Konstruktion von Stahlbauten* *Teil 1-8: Bemessung von Anschlüssen*

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DIN EN 1993-1-8/NA:2010-12	*Eurocode 3: Bemessung und Konstruktion von Stahlbauten* *Teil 1-8: Bemessung von Anschlüssen* *Nationaler Anhang - National festgelegte Parameter*
DIN EN 1993-1-10	*Eurocode 3: Bemessung und Konstruktion von Stahlbauten* *Teil 1-10: Stahlsortenauswahl im Hinblick auf Bruchzähigkeit und Eigenschaften in Dickenrichtung*
DIN EN ISO 17660-1: 2006-12	*Schweißen –Schweißen von Betonstahl –Teil 1: Tragende Schweißverbindungen (ISO 17660-1:2006)*

8. Declared performances:

Essential characteristic	Performance of the product	
Design resistances under tension load for static and quasi-static loading	*PWC-16 / PWC-O16*	*±68 kN*
	PWC-20 / PWC-O20	*±97 kN*
	PWC-24 / PWC-O24	*±139 kN*
	PWC-30 / PWC-O30	*±220 kN*
	PWC-36 / PWC-O36	*±320 kN*
	PWC-39 / PWC-O39	*±384 kN*
	PWC-30-HF / PWC-O30-HF	*±299 kN*
	PWC-36-HF / PWC-O36-HF	*±436 kN*
Geometrical tolerances	*EN 1090-2 (general)* *ISO 2768 (general)* *EN ISO 13920* *EN 10029*	
Weldability	*Steel S355J2+N according to the EN 10025-2* *Reinforcing steel bars B500B*	
Fracture toughness / Brittle fracture resistance	*Steel S355J2+N: 27 Joule at-20°C* *Reinforcing steel bars B500B*	
Execution class	*EXC 2 according to the EN 1090-2*	
Fatigue strength	*No performance determined*	
Deformation in the serviceability limit state	*No performance determined*	
Fire resistance	*No performance determined*	
Fire behaviour	*Steel component, material classified in class A1*	
Release of cadmium and its compounds	*No performance determined*	
Release of radioactive radiation	*No performance determined*	
Durability	*No performance determined*	
Manufacturing	*According to the drawings N°. 0137323, 0137432*	

9. Certificate of conformity of the factory production control according to the DIN EN 1090:

Name and address of the notified body:	*DVS ZERT GmbH* *Aachener Straße 172* *D-40223 Düsseldorf*
Identification number of the notified body:	*2451*
Number of the certificate:	*2451-CPR-EN1090-2015.0045.003*

10. Appropriate Technical Documentation and/or Specific Technical Documentation:

https://www.pfeifer.info

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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:

Dipl.-Ing. Matthias Kintscher
Head of Businessunit Lifting and Connecting Systems

Memmingen, February 15th, 2021

Dipl.-Ing. Christoph Neef
Head of Engineering, Business Division Connecting and Lifting Systems

Memmingen, February 15th, 2021