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

Declaration of performance Nr. 337/PGS-H2-4/06-2020

1. Unique identification code of the product-type:

   PFEIFER Foundation Anchor PGS/H2/H4

2. Intended use:

   PFEIFER Foundation Anchor PGS/H2/H4 are steel components installed in foundations, floor slabs or similar elements made of reinforced concrete. Their purpose is to anchor tensile and compressive forces due to stresses resulting from predominantly static loads.
   The Foundation Anchors are mainly used for anchoring of columns and wall panels in combination with PFEIFER Column Shoes and PFEIFER Wall Shoes. They are fixed to the formwork as built-in components in the precast plants or on the construction site (if necessary with the aid of templates).
   The selection of suitable foundation anchors, the verification of anchoring capacity, the required additional reinforcement and the dimensioning of steel reinforced concrete elements are to be determined by the responsible planner according to common regulations.

Product sizes:	*PGS 16/H2/H2-B, PGS 20/H2/H2-B/H4, PGS 24/H2/H2-B/H4, PGS 30/H2/H2-B /H4, PGS 36/H2/H2-B /H4, PGS 39/H2/H2-B/H4, PGS 42/H2/H2-B/H4, PGS 48/H2/H2-B/H4, PGS 56/H2/H2-B/H4*
Material components and properties:	*Steel S355J0/2/R +N according to the EN 10025-2* *Steel concrete reinforcing bars B500B*
Definition of loading:	*Static and quasi-static loading – tensile and compression 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*

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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*
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	*PGS 16/H2/H2-B*	*± 68 kN*
	PGS 20/H2/H2-B/H/4	*±97 kN*
	PGS 24/H2/H2-B/H4	*±139 kN*
	PGS 30/H2/H2-B/H4	*±299 kN*
	PGS 36/H2/H2-B/H4	*±436 kN*
	PGS 39/H2/H2-B/H4	*±521kN*
	PGS 42/H2/H2-B/H4	*± 570 kN*
	PGS 48/H2/H2-B/H4	*± 778 kN*
	PGS 56/H2/H2-B/H4	*± 910 kN*
Geometrical tolerances	*EN 1090-2 (general)* *ISO 2768 (general)* *EN 10060* *EN ISO 13920*	
Weldability	*Steel S355J0/2/R +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 information*	
Deformation in the serviceability limit state	*No performance information*	
Fire resistance	*No performance information*	
Fire behaviour	*Steel component, material classified in class A1*	
Release of cadmium and its compounds	*No performance information*	
Release of radioactive radiation	*No performance information*	
Durability	*No performance information*	

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Manufacturing	*According to the drawings N°:*	
	Socket	*0030919-XX*
	PGS/H2	*0045710-XX*
	PGS/H2-B	*0031947-XX*
	PGS/H4	*0045714-XX*
	Label PGS/H2	*0071777-XX*
	Label PGS/H4	*0071778-XX*

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

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, June 8th, 2020

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

Memmingen, June 8th, 2020