



87700 Memmingen, Germany

The manufacturer PFEIFER Seil- und Hebetechnik GmbH

Dr.-Karl-Lenz-Strasse 66

D-87700 Memmingen

hereby declares that the following construction product with the

in the sizes PVB 16, PVB 20, PVB 24, PVB 30, PVB 36, PGV 42, PGV 48, PGV 56

complies with the provisions of the following EC Directive(s), if installed in accordance with the installation instructions as set forth in the product documentation:

Decree (EU) No. 305/2011 of the European Parliament and Council dated 09 March 2011 regarding the determination of harmonised conditions for the marketing of construction products and the repeal of the Directive 89/106/EEC EC Construction Products Regulation

and that the following standards were applied during dimensioning and construction:

BS EN 1990:2010-12	Eurocode 0: Basis of structural design	
BS EN 1990/NA:2010-12	Eurocode 0: Basis of structural design	
BS EN 1990/NA/A1:2012-08	National annex - nationally determined parameters incl. Amendment A1	
BS EN 1992-1:2011-01	Eurocode 2: Design of concrete structures	
	Part 1-1: Common rules for building and civil engineering structures	
BS EN 1992-1/NA:2011-01	Eurocode 2: Design of concrete structures	
	Part 1-1: Common rules for building and civil engineering structures	
	National annex – nationally determined parameters	
BS EN 1993-1-1:2010-12	Eurocode 3: Design of steel structures	
	Part 1-1: Common rules for building and civil engineering structures	
BS EN 1993-1-1/NA:2010-12	Eurocode 3: Design of steel structures	
	Part 1-1: Common rules for building and civil engineering structures	
	National annex – nationally determined parameters	
BS EN 1993-1-8:2010-12	Eurocode 3: Design of steel structures	
	Part 1-8: Design of joints	
BS EN 1993-1-8/NA:2010-12	Eurocode 3: Design of steel structures	
	Part 1-8: Design of joints	
	National annex – nationally determined parameters	
BS EN 1090-1:2012-02	Execution of steel structures and aluminium structures	
	Part 1: Requirements for conformity assessment of structural components	
BS EN 1090-1:2011-10	Execution of steel structures and aluminium structures	
	Part 2: Technical requirements for the execution of steel structures	



Performance feature	Service / categorisation / classification
Geometrical tolerances	BS EN 1090-2 (general) DIN 13 (metric ISO thread)
	DIN ISO 2768 (general) BS EN ISO 4032 (nuts)
Welding suitability	No performance specification (no performance determined)
Fracture toughness / resistance to brittle fracture	Screw material EN ISO 898 (Connecting bolts)
Carrying capacity	Design resistance to straight tensile/compressive force:
	PVB 16: $N_{Rd,max} = \pm 68 \text{ kN}$
	PVB 20: $N_{Rd,max} = \pm 97 kN$
	PVB 24: $N_{Rd,max} = \pm 139 \text{ kN}$
	PVB 30: $N_{Rd,max} = \pm 299 \text{ kN}$
	PVB 36: $N_{Rd,max} = \pm 436 \text{ kN}$
	$PGV 42: N_{Rd,max} = \pm 546 \text{ kN}$
	$PGV 48: N_{Rd,max} = \pm 672 \text{ kN}$
	PGV 56: $N_{Rd,max} = \pm 910 \text{ kN}$
Implementation class	EXC 2 pursuant to EN 1090-2
Fatigue strength	No performance specification (no performance determined)
Deformations in the serviceability limit state	No performance specification (no performance determined)
Fire resistance	No performance specification (no performance determined)
Fire resistance	Steel component, material categorised in class A1
Release of cadmium and its compounds	No performance specification (no performance determined)
Release of radioactive radiation	No performance specification (no performance determined)
Durability	No performance specification (no performance determined)
Manufacture	Acc. to drawing no. 0032403
System of conformity certification	2+



Product description / intended use:

PFEIFER PVB or PGV connecting bolts each consist of one threaded bolt with two nuts and two washers. They are used for the load-bearing connection of PFEIFER column shoes to the associated foundation anchors.

The use of the PFEIFER PVB or PGV connecting bolts is limited to the stresses resulting from predominantly static loads.

Certificate acc. to BS EN 1090 regarding the conformity of the factory production control:

Name and address of the notified body:	GSI – Gesellschaft für Schweißtechnik International mbH Munich branch Schachenmeierstraße 37 D-80636 München
Code number of the notified body:	1182
Number of the certificate:	1182-CPD-1090-1.00108.GSIMü.2013.001
Period of validity of the certificate:	13.03.2014

Authorised person responsible for the preparation and maintenance of the technical documentation:

Dipl.-Ing. Christoph Neef

Technical Manager, Connecting and Lifting Systems, PFEIFER Seil- und Hebetechnik GmbH

PFEIFER Seil- und Hebetechnik GmbH Memmingen, 04/10/2013

Dipl.-Ing. Matthias Kintscher

Manager, Business Area Connecting and Lifting

Ho pintole

Systems

Dipl.-Ing. Christoph Neef

Technical Manager, Connecting and Lifting Sys-

i.V. Ob.

tems