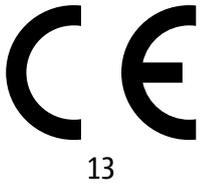


Declaration of Performance No.: DOP_BOL_ETA-13-0076_v3_GB



1. Unique identification code of product type:

Schöck Bole® punching shear reinforcement

2. Purpose:

Punching shear reinforcement with double-headed studs in slabs and foundations exposed to point loads

3. Manufacturer:

Schöck Bauteile GmbH, Vimbacher Straße 2, 76534 Baden-Baden

4. System(s) used to assess and verify performance consistency:

System 1+

5. Technical assessment:

European Assessment Document/Harmonised standard/National standard:

EAD 160012-00-0301

European Technical Assessment/Approval:

ETA 13/0076

Technical Assessment Body/Approval Body:

Deutsches Institut für Bautechnik (DIBt), Kolonnenstr. 30B, 10829 Berlin

Notified Body/External Monitoring Body:

Versuchsanstalt für Stahl, Holz und Stein, Universität Karlsruhe (TH), 76128 Karlsruhe

EC Certificate of Conformity/Certificate of Compliance:

0769-CPR-VAS-00746-1

6. Declared performance:

Material features	Performance	Technical specification
Increasing factor for punching shear resistance	$k_{pu,st} = 1,96$	EAD 160012-00-0301
	$k_{pu,fo} = 1,50$	
Characteristic fatigue strength for N = $2 \cdot 10^6$ load cycles	$\sigma_{Rs,k,n} = 70 \text{ MPa (n = } 2 \cdot 10^6)$	
Fire behaviour	Class A1	

7. Appropriate technical literature and/or specific technical literature:

Structural engineer's planning literature

The performance of the aforementioned product is consistent with the declared performance. The aforementioned manufacturer is solely responsible for issuing this Declaration of Performance in compliance with (EU) Regulation No. 305/2011. Signed for and on behalf of the manufacturer by:

Baden-Baden, 1 March 2019

(Place, date)



(Hubert Fritschi, Head of R&D)