

# Declaration of Performance

## JORDAHL® punching shear reinforcement JDA



### 1. Unique identification code of the product-type:

JORDAHL® punching shear reinforcement JDA

### 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

JORDAHL® punching shear reinforcement JDA – refer to ETA-13/0136. Annex A1. A2. A3. A4 and A5 \*)

### 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**Generic type and use** Increase of the punching shear resistance of flat slab, ground slabs and footings with a slab height of  $h \geq 180$  mm, interface reinforcement between precast and in-situ concrete for semi-prefabricated slabs

**Product size** Diameter 10 / 12 / 14 / 16 / 18 / 20 / 25 mm

**Anchor material** Ribbed and smoothed reinforcing steel according to EN 1992-1-1, Annex C with a characteristic yield strength of  $f_{yk} \geq 500$  MPa

**Base material** Concrete C20/25 to C50/60 according to EN 206-1

**Loading** static, quasi-static and fatigue loading

### 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

JORDAHL GmbH, Nobelstraße 51, 12057 Berlin, Germany

### 5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

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### 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1+

### 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

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### 8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Deutsches Institut für Bautechnik (DIBt) issued ETA-13/0136 on the basis of EAD 160003-00-0301. The notified body 2451 performed under system 1+:

- (i) Determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product
- (ii) Initial inspection of the manufacturing plant and of factory production control
- (iii) Continuous surveillance, assessment and evaluation of factory production control and issuing certificate of conformity 2451-CPR-EAD-2018.0002.001.

### 9. Declared performance

Essential characteristics	Performance
Punching shear resistance at interior columns	ETA-13/0136, Annex B3, B4, B5, B7 und B8 *)
Punching shear resistance at edge- and corner columns	ETA-13/0136, Annex C1 to C3 *)
Punching shear resistance at near openings	ETA-13/0136, Annex C1 and C3 *)
Punching shear resistance of footings	ETA-13/0136, Annex B6 *)
Characteristic fatigue strength	$\Delta\sigma_{Rsk,n=2 \cdot 10^6} = 70$ MPa
Increasing factor for punching shear resistance	$k_{pu,sl} = 1,96$ , $k_{pu,fo} = 1,50$
Reaction to fire	Class A1
Design Method	EOTA TR 060; EN 1992-1-1
Harmonized technical specification	EAD 160003-00-0301

### 10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

Tim Stollberg, Director Engineering and Product Development

i.v. Christoph Mahrenholtz, Head of Engineering  
Berlin, 01.09.2021

\*) Further information [qr.jordahl-group.com/en/jda](http://qr.jordahl-group.com/en/jda)