

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.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Michael Pantelmann, Executive Board

i.V. Christoph Mahrenholtz, Head of Engineering
Berlin, 01.04.2019

*) Further information qr.jordahl-group.com/en/jda