

Declaration of Performance

JORDAHL® Anchor Channel JTA, JXA and T-bolts



1. Unique identification code of the product-type:

JORDAHL® anchor channel JTA and JXA

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

JORDAHL® anchor channel JTA and JXA – refer to ETA-09/0338, Annex A1, A2, 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 C-shaped anchor channel with at least two anchors to embed in concrete and T-shaped channel bolts to insert.

Product sizes JTA K28/15 with JD and JUD M6 to M12; JTA K38/17 with JH and JUH M10 to M16; JTA K40/25, W40/22 and W40+ with JC M10 to M16; JTA W40/22 and W40+ with JC M16 to M20; JTA K50/30, W50/30, W50+, K53/34, W53/34 with JB M10 to M20, JTA W50/30, W50+ and W53/34 with JB M16 to M20; JTA W55/42 with JB and JE M16 to M24; JTA K72/48, W72/48 with JA M20 to M30; JXA W38/23 with JXH M12 to M16, JXA W53/34 with JXB M16 to M20

Anchor channel material / channel bolt material and intended use

Hot-dip galvanised steel / electroplated steel for dry internal conditions; hot-dip galvanised steel / hot-dip galvanised steel for internal conditions with usual humidity, stainless steel / stainless steel for CRC III, CRC IV and CRC V according to EN 1993-1-4

Base material: strength and condition Cracked and non-cracked concrete C12/15 to C90/105 according to EN 206-1

Loading Static and quasi-static tension and shear loads perpendicular to and in the direction of the channel axis, fire exposure, fatigue loads

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:

The Deutsches Institut für Bautechnik (DIBt) issued ETA-09/0338 on the basis of EAD 330008-03-0601. 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-2018.0001.001

9. Declared performance

Essential characteristics	Performance
Characteristic resistance under tension load	
Resistance to steel failure of anchors, connection and channel lips	ETA-09/0338, Annex C1-C3 *)
Resistance to steel failure of channel bolt	ETA-09/0338, Annex C6 *)
Resistance to steel failure by exceeding the bending strength of the channel	ETA-09/0338, Annex A9, A10 and C4 to C5 *)
Maximum installation torque	ETA-09/0338, Annex B5 and B6 *)
Resistance to pull-out failure of the anchor and to concrete cone failure	ETA-09/0338, Annex B3, B4 and C7 to C9 *)
Minimum edge distance, spacing and member thickness	ETA-09/0338, Annex A9, A10, B3 and B4 *)
Characteristic edge distance and spacing to avoid splitting of concrete under load	ETA-09/0338, Annex C7 to C9 *)
Resistance to blow-out failure – bearing area of anchor head	ETA-09/0338, Annex A7 and A8 *)
Characteristic resistance under shear load	
Resistance to steel failure of channel bolt	ETA-09/0338, Annex C16 *)
Resistance to steel failure of channel lips, connection and anchor (shear load perpendicular to longitudinal axis of channel)	ETA-09/0338, Annex C11 to C13 *)
Resistance to steel failure of channel lips, anchor and connection (shear load in direction of longitudinal axis of channel)	ETA-09/0338, Annex C12 *)
Resistance to concrete failure	ETA-09/0338, Annex C14 and C15 *)
Characteristic resistance under combined tension and shear load (static and quasi-static load)	ETA-09/0338, Annex C18 *)
Characteristic resistances under cyclic fatigue tension load	ETA-09/0338, Annex C22 to C23 *)
Displacements (static and quasi-static load)	ETA-09/0338, Annex C10 and C17 *)
Reaction to fire	Class A1
Resistance to fire	ETA-09/0338, Annex C19 to C21 *)
Durability	ETA-09/0338, Annex B1 *)
Design Method	EN 1992-4, EOTA TR 047, EOTA TR 050
Harmonised technical specification	EAD 330008-03-0601

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

Michael Pantelmann, Executive Board

i.V. Christoph Mahrenholtz, Head of Engineering
Berlin, 29.06.2021

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