



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-14/0462 of 9 December 2020

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

This version replaces

Deutsches Institut für Bautechnik

Concealed multi-axis hinge assemblies "AN 160 3D" and "AN 180 3D"

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ANSELMI & C. SRL Via Ca' Morelli 19 31056 RONCADE (TV) ITALIEN

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6 pages including 2 annexes which form an integral part of this assessment

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Specific Part

1 Technical description of the product

This European Technical Assessment applies to the variable concealed multi-axis hinges made of mainly aluminium and zinc diecasting with the designation "AN 160 3D" and "AN 180 3D".

Each product consists of three parts, one part a mounting plate for the door frame, one part a mounting plate for the door leaf with segmented plates connected laterally in such a way as to allow the door to swing freely and to maintain the leaf in the same horizontal and vertical plane during the full operational cycle. Between the two mounting plates provide a variable geometry moving axis within a concealed hinge assembly.

The components and the system setup of the product are given in Annex 1 and 2.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The hinges are intended for use on doors of timber and metal. The doors could be made of synthetic materials if there is no requirement on resistance to fire.

They are invisible (concealed) hinges to allow single and double swing door leaves to be mounted flush to its door leaf and frame, forming a flush panel surface when the door is closed, and allowing the door to open to 180°.

The hinges are available for use on doors with door mass up to 40 kg "AN 160 3D" and 80 kg "AN 180 3D each door leaf.

The performances given in Section 3 are only valid if the hinges are used in compliance with the specifications and conditions given in Annex 1 and 2.

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the hinges of at least 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	A1
Resistance to fire	El ₂ 30

3.2 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

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3.3 General aspects

	AN 160 3D	AN 180 3D
Essential characteristic	Performance	Performance
Category of use	Grade 2	Grade 3
Durability	Grade 7	Grade 7
Test door mass	Grade 2	Grade 4
Fire resistance	Grade 1	Grade 1
Safety	Grade 1	Grade 1
Corrosion resistance	Grade 4	Grade 3
Security	Grade 0	Grade 0
Hinge grade	Grade 7	Grade 11

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to Decision of the Commission 1999/93/EC (OJ L 29/51 of 26.01.1999 p. 51), as amended by Decision of the Commission 2011/246/EU (Letter of the European commission of 15/10/2004), the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

The system to be applied is: 1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

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Christina Pritzkow	beglaubigt.
Head of Section	Panneck

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