

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-20/0491
of 19 October 2020

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Multi-axis concealed hinges "ATOMIKA K8080"

Product family
to which the construction product belongs

Multi-axis concealed hinges "ATOMIKA K8080"

Manufacturer

KRONA KOBLENZ S.p.A
Via o. Romero 1
47853 CORIANO (RN)
ITALIEN

Manufacturing plant

KRONA KOBLENZ S.p.A
Via o. Romero 1
47853 CORIANO (RN)
ITALIEN

This European Technical Assessment
contains

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

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

EAD 020001-01-0405

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Page 2 of 6 | 19 October 2020

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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 steel with the designation "ATOMIKA K8080".

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 is given in Annex 1.

Several hinges have a labelling according to Annex 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 uses on doors with door mass up to 80 kg 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.

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 60

3.2 Sustainable use of natural resources (BWR 7)

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

3.3 General aspects

Essential characteristic	Performance
Category of use	Grade 3
Durability	Grade 7
Test door mass	Grade 4
Fire resistance	Grade 1
Safety	Grade 1
Corrosion resistance	Grade 4
Security	Grade 0
Hinge grade	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

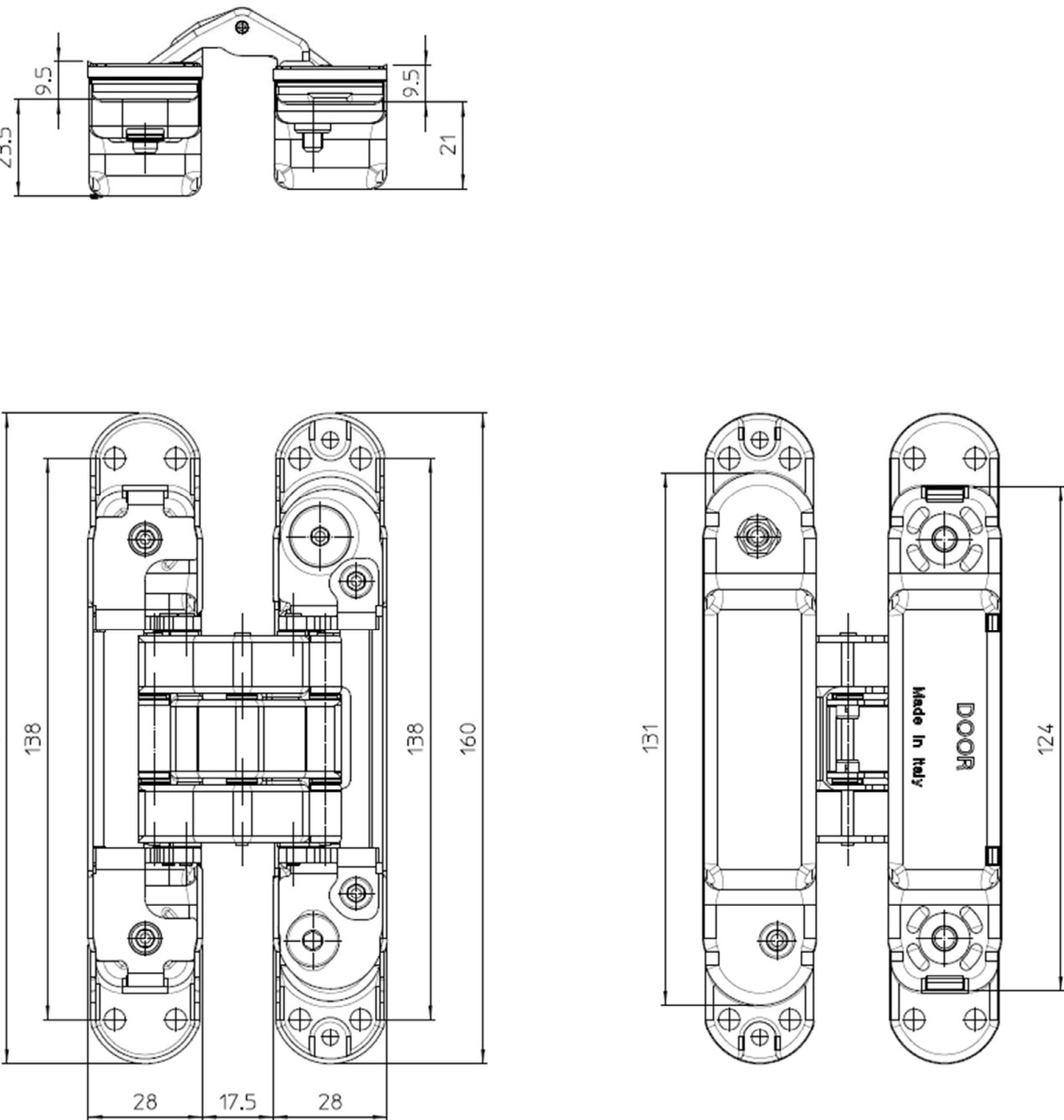
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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

Issued in Berlin on 19 October 2020 by Deutsches Institut für Bautechnik

Gerhard Breitschaft
President

beglaubigt:
Pritzkow

	
Multi-axis concealed hinges "ATOMIKA K8080"	Annex 1
Konstruktion	

Name	Name	Name	Name	Name
ATOMIKA KARAKTER	ATOMIKA KARAKTER	H12L	SPIRIT 340-3D	K 8080
Article numbers	Article numbers	Article numbers	Article numbers	Article numbers
K 8080 BI	K AK 003 BI	927.91.350	0687 383 110	102265580
K 8080 BI R	K AK 003 BR	927.91.351	0687 383 111	
K 8080 BR	K AK 003 BS	927.91.352		
K 8080 BR R	K AK 003 CL	927.91.353		
K 8080 BS	K AK 003 CS	927.91.354		
K 8080 BS R	K AK 003 NO	927.91.355		
K 8080 CL	K AK 003 NS	927.91.356		
K 8080 CL R	K AK 003 OL	927.91.357		
K 8080 CS	K AK 003 OTL	927.91.358		
K 8080 CS R	K AK 003 OTS	927.91.359		
K 8080 CS S				
K 8080 NO				
K 8080 NO R				
K 8080 NO S				
K 8080 NS				
K 8080 NS R				
K 8080 OL				
K 8080 OL R				
K 8080 OTL				
K 8080 OTL R				
K 8080 OTS				
K 8080 OTS R				

Multi-axis concealed hinges "ATOMIKA K8080"

Labelling of hinges

Annex 2