

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-17/0575
of 15 December 2017

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 hinge assemblies
Kubica K2400, Kubica K5080, Kubica K6200

Product family
to which the construction product belongs

Multi-axis concealed hinge assemblies
Kubica K2400, Kubica K5080, Kubica K6200

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

8 pages including 4 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

This version replaces

ETA-17/0575 issued on 8 August 2017

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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 aluminium and zinc diecasting with the designation "Kubica K2400, Kubica K5080 and Kubica K6200".

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 unsprung hinge assembly.

The system setup of the product is given in Annexes 1 to 3.

The further labelling of some hinges is according to Annex 4.

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 (Kubica K2400, Kubica K6200) or 80 kg (Kubica K5080) each door leaf.

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the hinges of 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 Mechanical resistance and stability (BWR 1)

Not applicable

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Performance class A1
Resistance to fire	EI ₂ 30

3.3 Hygiene, health and the environment (BWR 3)

Not applicable

3.4 Safety and accessibility (BWR 4)

Not applicable

3.5 Protection against noise (BWR 5)

Not applicable

3.6 Energy economy and heat retention (BWR 6)

Not applicable

3.7 Sustainable use of natural resources (BWR 7)

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

3.8 General aspects

The verification of durability is part of testing the essential characteristics.

Essential characteristic	Performance
Category of use	Grade 2 - Kubica K2400, Kubica K6200 Grade 3 - Kubica K5080
Durability	Grade 7
Test door mass	Grade 2 - Kubica K2400, Kubica K6200 Grade 4 - Kubica K5080
Fire resistance	Grade 1
Safety	Grade 1
Corrosion resistance	Grade 4
Security	Grade 0
Hinge grade	Grade 7 - Kubica K2400, Kubica K6200 Grade 11 - Kubica K5080

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.

Product	Intended use	Level or class	System
Kubica K2400, Kubica K5080 or Kubica K6200	fire compartmentation and on escape routes		1

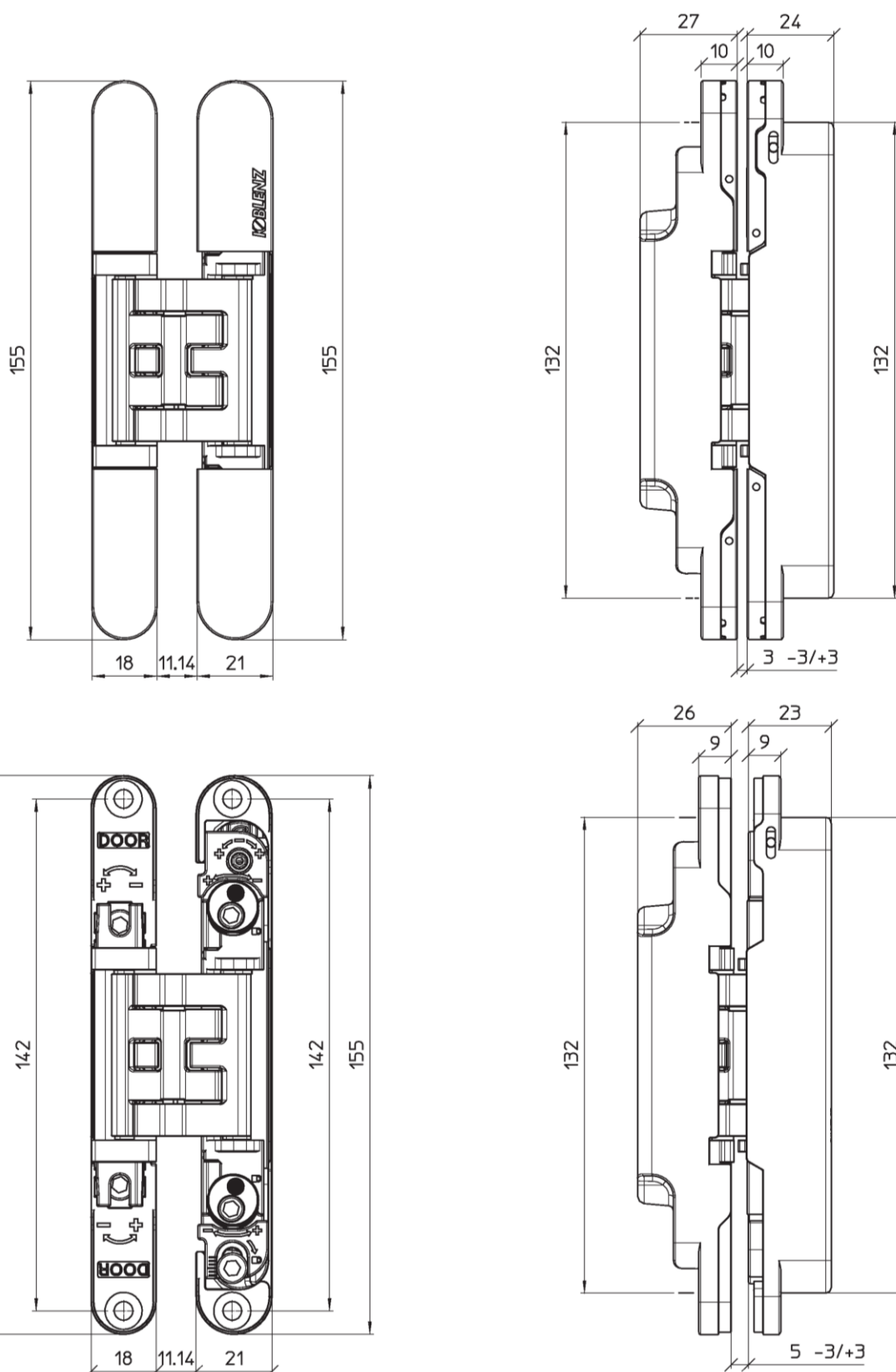
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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

Issued in Berlin on 15 December 2017 by Deutsches Institut für Bautechnik

Maja Tiemann
p. p. Head of Department

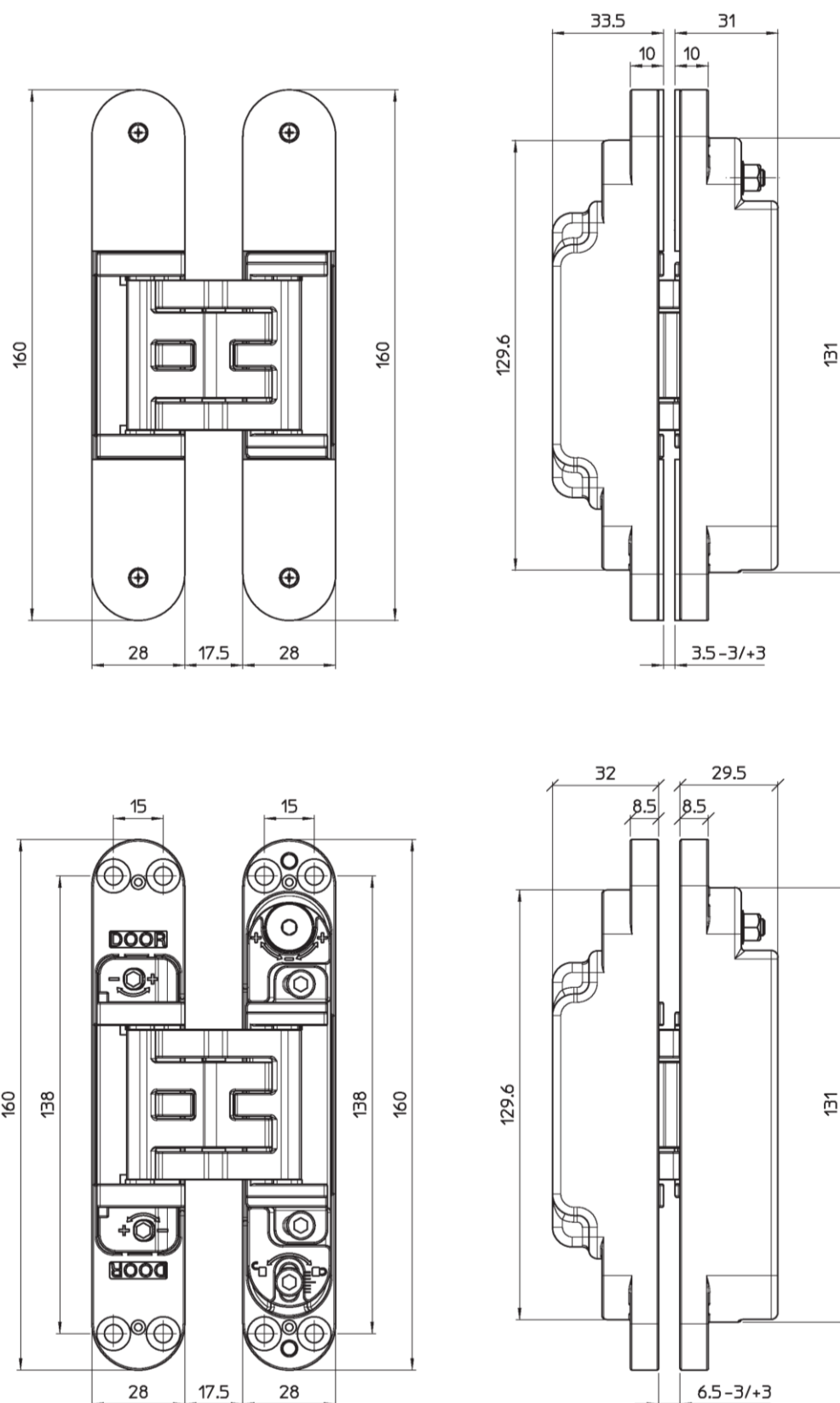
beglaubigt:
Pritzkow



Multi-axis concealed hinge assemblies
Kubica K2400

Construction

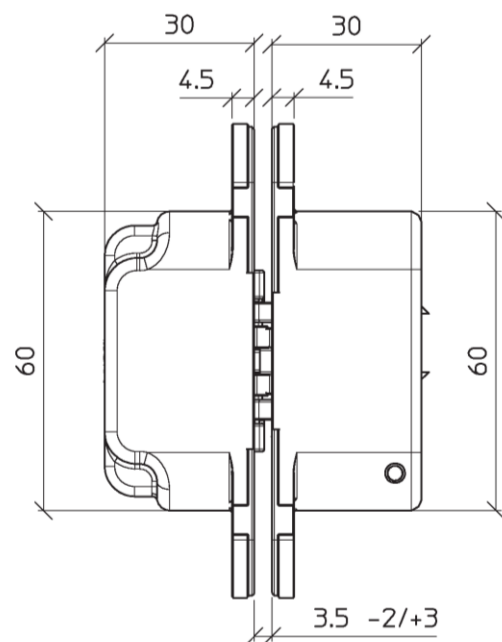
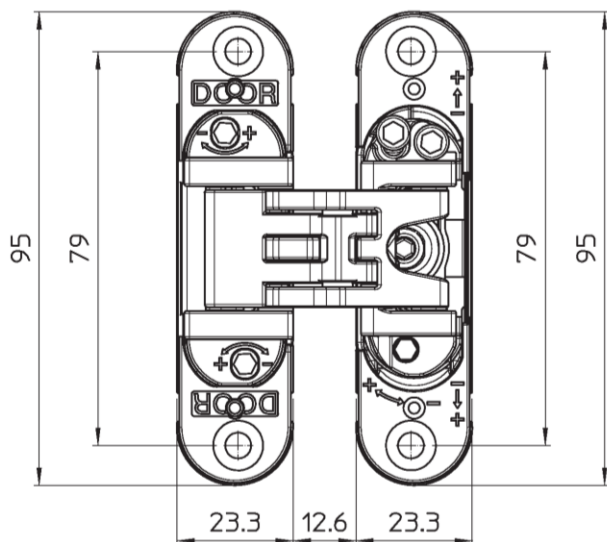
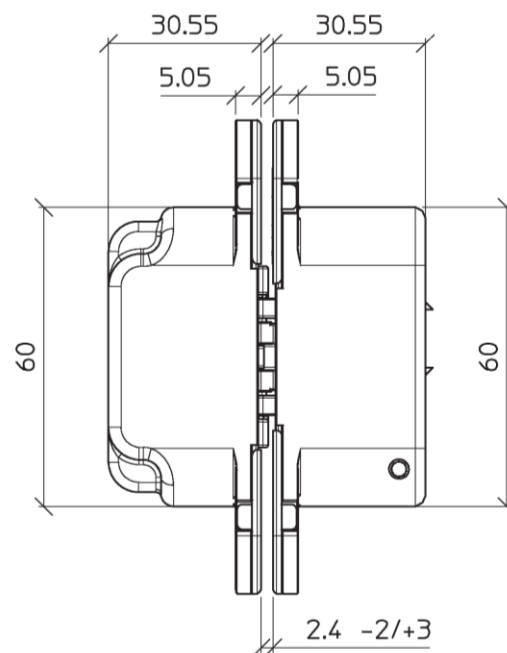
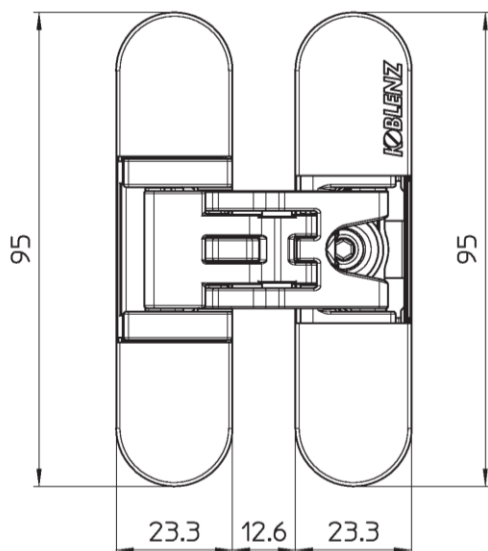
Annex 1



Multi-axis concealed hinge assemblies
Kubica K5080

Construction

Annex 2



Multi-axis concealed hinge assemblies
Kubica K6200

Construction

Annex 3

Kubica K2400	927.91.542 927.91.543	---
Kubica K5080	927.91.041 927.91.043 927.91.044 927.91.046 927.91.048	---
Kubica K6200	927.91.542 927.91.543 927.91.544 927.91.546 927.91.548	0688 313 655

Multi-axis concealed hinge assemblies
Kubica K2400, Kubica K5080, Kubica K6200

Further labelling of some hinges according to applicants information

Annex 4