



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 23 June 2017

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 "ISTAR MOD. 506" and "ISTAR MOD. 580"

Concealed multi-axis hinge assemblies "ISTAR MOD. 506" and "ISTAR MOD. 580"

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

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

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

European Assessment Document (EAD) 020001-01-0405

ETA-14/0462 issued on 2 December 2014

Deutsches Institut für Bautechnik Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de



European Technical Assessment ETA-14/0462

Page 2 of 6 | 23 June 2017

English translation prepared by DIBt

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.



Page 3 of 6 | 23 June 2017

European Technical Assessment ETA-14/0462 English translation prepared by DIBt

Specific Part

1 Technical description of the product

This European Technical Assessment applies to the variable concealed multi-axis hinges made of aluminium and zamac with the designation "ISTAR MOD. 506" and "ISTAR MOD. 580".

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 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 leafs 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 (ISTAR MOD. 506) and 80 kg (ISTAR MOD. 580) 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	El 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



European Technical Assessment

ETA-14/0462

Page 4 of 6 | 23 June 2017

English translation prepared by DIBt

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 - ISTAR MOD. 506
	Grade 3 - ISTAR MOD. 580
Durability	Grade 7 - 200.000 Cycles
Test door mass	Grade 2 - ISTAR MOD. 506
	Grade 4 - ISTAR MOD. 580
Fire resistance	Grade 1
Safety	Grade 1
Corrosion resistance	Grade 4 - ISTAR MOD. 506
	Grade 3 - ISTAR MOD. 580
Security	Grade 0
Hinge grade	Grade 7 - ISTAR MOD. 506
	Grade 11 - ISTAR MOD. 580

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
ISTAR MOD. 506 ISTAR MOD. 580	use doors in fire resisting and/or smoke compartmentation and/or on escape routes		1

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 23 June 2017 by Deutsches Institut für Bautechnik

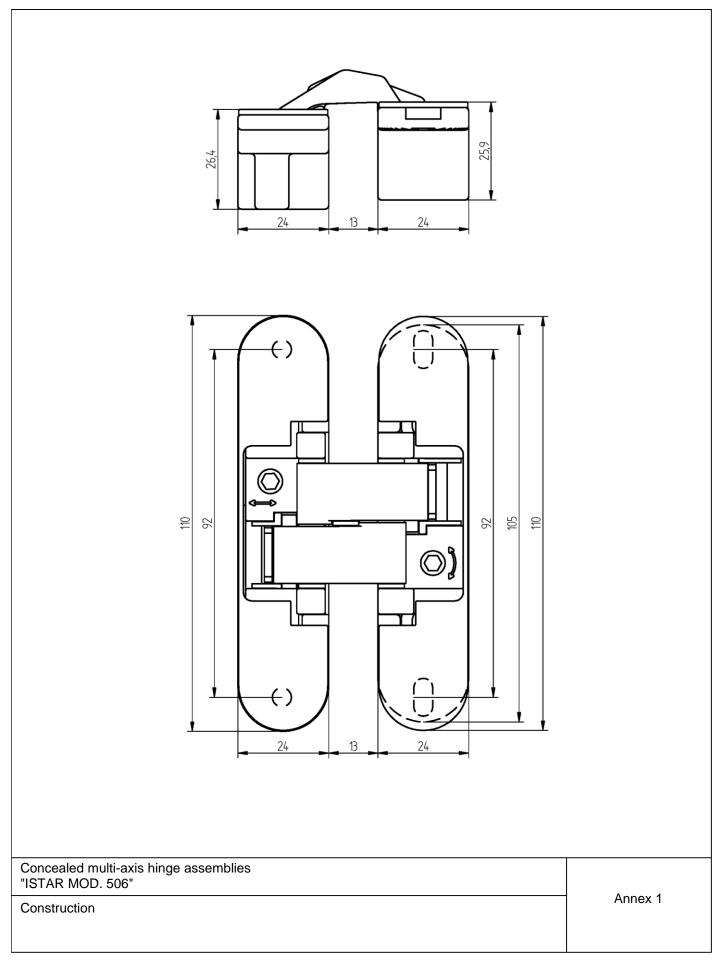
Prof. Gunter Hoppe Head of department *beglaubigt:* Pritzkow

5

Page 5 of European Technical Assessment ETA-14/0462 of 23 June 2017

English translation prepared by DIBt





Page 6 of European Technical Assessment ETA-14/0462 of 23 June 2017

English translation prepared by DIBt



