

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-16/0789**  
**of 1 November 2018**

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

Personal Fall-Protection System Primo 2 AD, Primo 3,  
Primo 6

Product family  
to which the construction product belongs

Anchor Devices for Fastening Personal Fall Protection  
Systems to Concrete Structures

Manufacturer

Sicherheitskonzepte Breuer GmbH  
Broekhuysener Straße 40  
47638 Straelen  
DEUTSCHLAND

Manufacturing plant

Sicherheitskonzepte Breuer GmbH  
Broekhuysener Straße 40  
47638 Straelen  
Germany

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 331072-00-0601

This version replaces

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## Specific Part

### 1 Technical description of the product

The subject of this assessment is the fall protection system Primo 2 AD. This fall protection system is made of stainless steel. It is fastened to reinforced normal weight concrete (cracked or uncracked), strength classes C20/25 to C50/60 according to EN 206. The fall protection system Primo 2 AD is fastened to the concrete with the anchor bolt FAZ II 12/10 A4<sup>1</sup>.

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

### 2 Specification of the intended use in accordance with the applicable EAD 16-33-1072-06.01 – Anchor Devices for Fastening Personal Fall Protection Systems to Concrete Structures

The fall protection system Primo 2 AD is used to protect operators working at height (max. 3 persons at once), by arresting them in a fall. The operators attach themselves to the eye using e.g. ropes and karabiners. In the case of a fall the fall protection system Primo 2 AD prevents the fall and resulting physical damage assuming the correct usage by the operator. The fall protection system Primo 2 AD is designed for use in all areas of industry, construction and maintenance.

The fall protection system Primo 2 AD is intended to be used, fastened or inserted on flat roofs or other flat planes made of concrete only. The direction of force therefore shall be perpendicular ( $90^\circ \pm 5\%$ ) to the fastening element. Thus use at a (concrete-) wall is intended only when the direction of force still applies at a  $90^\circ$  angle to the fastening axis.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the fall protection system Primo 2 AD of at least 25 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	No Performance assessed

#### 3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Static loading	Level(12 kN), see Annex 2
Dynamic loading	Level (3 users)
Check of deformation capacity in case of constraining forces	Description(9 mm at 0.7 kN)
Durability	No performance assessed

<sup>1</sup> ETA-05/0069 fischer Bolt Anchor FAZ II

English translation prepared by DIBt

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

In accordance with EAD No. 16-33-1072-00-06.01, the applicable European legal act is: Decision 98/436/EC.

The system to be applied is: 1+

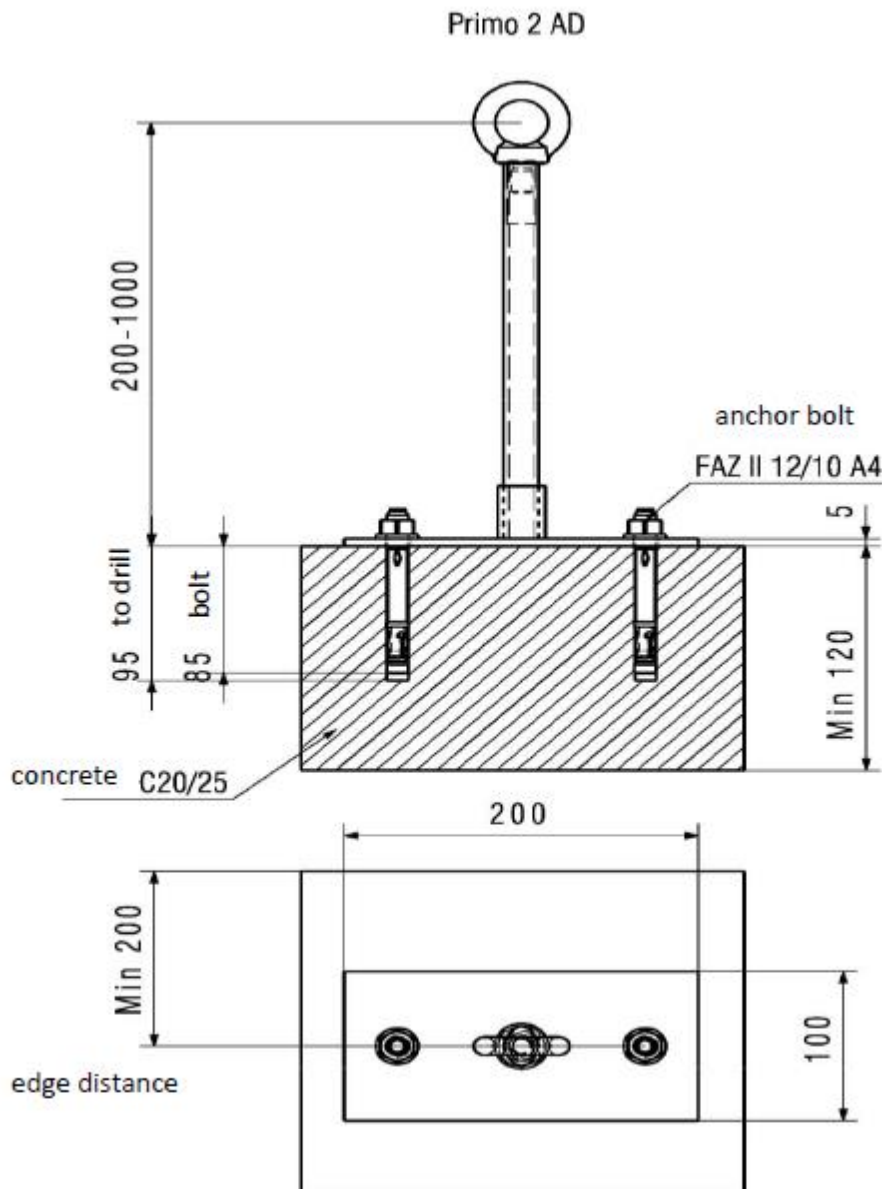
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

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 1 November 2018 by Deutsches Institut für Bautechnik

Dr.-Ing. Lars Eckfeldt  
p. p. Head of Department

*beglaubigt:*  
Hahn



Absturzsicherung Primo 2 AD (Personal Fall Protection System Primo 2 AD)

Primo 2 AD for concrete (cracked and uncracked)

Annex 1

### Design values at impact

$$N_{F,d} = N_{F,k} \cdot \gamma_F$$

For Germany a partial safety factor  $\gamma_F$  of 1.5 is recommend.

The recommended partial safety factor is used in order to determine the corresponding design resistances, provided no values are given in national regulations of the member state in which the Primo 2 AD is used. That leads to the following values:

Example: for one User:  $N_{F,d} = N_{F,k} \cdot \gamma_F = 6 \text{ kN} \cdot 1.5 = 9 \text{ kN}$   
for two Users:  $N_{F,d} = N_{F,k} \cdot \gamma_F = (6+1) \text{ kN} \cdot 1.5 = 10.5 \text{ kN}$   
for three Users:  $N_{F,d} = N_{F,k} \cdot \gamma_F = (6+2) \text{ kN} \cdot 1.5 = 12 \text{ kN}$

Absturzsicherung Primo 2 AD (Personal Fall Protection System Primo 2 AD)

Design values at impact

Annex 2