

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-18/0081**  
**of 9 February 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

818 Alfa proteXos ETAG Flüssigabdichtung 1K

Product family  
to which the construction product belongs

Liquid applied roof waterproofing on the basis of  
polyurethane

Manufacturer

Alfa GmbH  
Ferdinand-Porsche-Straße 10  
73479 Ellwangen  
DEUTSCHLAND

Manufacturing plant

Produktionsanlage 479

This European Technical Assessment  
contains

7 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

ETAG 005 Part 6: "Specific stipulations for kits based on  
polyurethane",  
used as EAD according to Article 66 Paragraph 3 of  
Regulation (EU) No 305/2011.

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## Specific part

### 1 Technical description of the product

The liquid applied roof waterproofing "818 Alfa proteXos ETAG Flüssigabdichtung 1K" is a kit, which consists of the components:

- Primer depending on the type of substrate
- liquid applied roof waterproofing on the basis of a one-component polyurethane
- polyester fleece as reinforcement

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is required. In general the primer belonging to the substrate is given in the manufacturer technical documents<sup>1</sup>. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

The minimum layer thickness of the roof waterproofing applied is 2.0 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing.

The components and the system build-up of the roof waterproofing "818 Alfa proteXos ETAG Flüssigabdichtung 1K" are given in Annex A.

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

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water.

In the technical file the manufacturer give information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The levels of use categories are given in Annex A.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of working life of the product of 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.

The levels of use categories and performances given in Section 3 are only valid if the liquid applied roof waterproofing is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents.

<sup>1</sup> The manufacturer's technical documents comprises all information necessary for the production and the installation of the product as well as for repair of the roof waterproofing made from that and it is deposited with DIBt.

### 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
External fire performance	See Annex A
Reaction to fire	See Annex A

#### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
Content, emission and/or release of dangerous substances:	
CMR-Substances Substance/s classified as EU-cat. Carc. 1A and/or 1B <sup>a)</sup> Substance/s classified as EU-cat. Muta. 1A and/or 1B <sup>a)</sup> Substance/s classified as EU-cat. Repr. 1A and/or 1B <sup>a)</sup> Release scenario regarding BWR3:	The product does not contain these dangerous substances. <sup>b)</sup>  S/W 2
Resistance to mechanical damage (perforation)	See Annex A
Resistance to plant roofs	See Annex A

<sup>a)</sup> In accordance with Regulation (EC) No 1272/2008.

<sup>b)</sup> Assessment based on the detailed manufacturer's statements.

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

Essential characteristic	Performance
Resistance to wind loads	See Annex A
Slipperiness	See Annex A

#### 3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability are only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.

English translation prepared by DIBt

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

According to Decision of the Commission of 12 October 1998 (98/599/EC) (OJ L 287 of 24.10.98, p. 30), as amended by Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209 of 02.08.2001, p. 33), 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(s)	Level or class	System
Liquid applied roof waterproofing kits	For uses subject to external fire performance regulations	B <sub>ROOF</sub> (t <sub>1</sub> )	3
	For uses subject to reaction to fire	E	3
	All other roof waterproofing uses (all other characteristics)	—	3

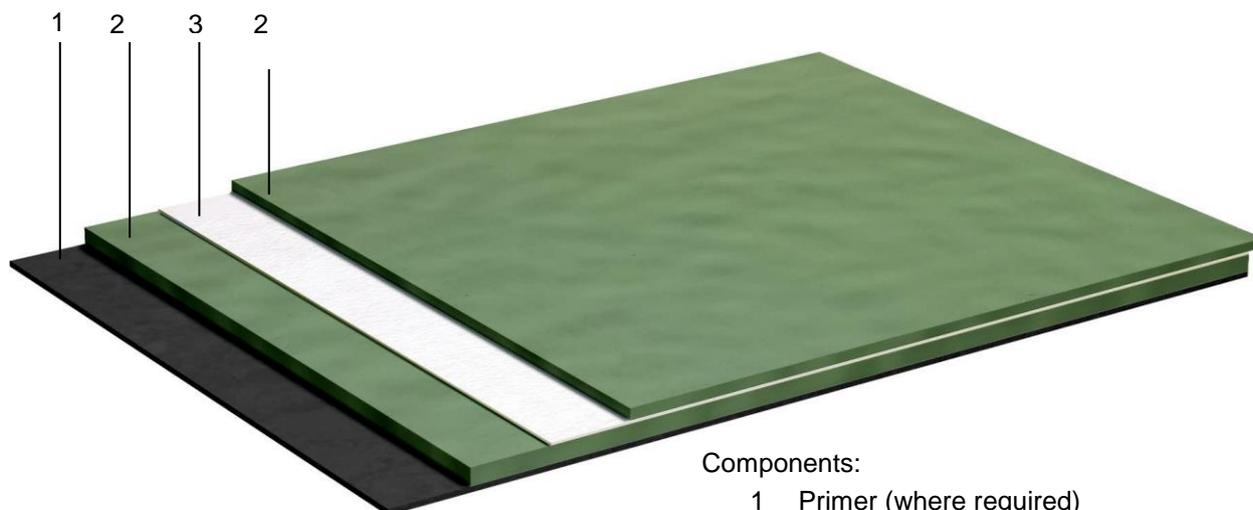
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

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 9 February 2018 by Deutsches institute für Bautechnik

BD Dipl.-Ing. Andreas Kummerow  
Head of Department

*beglaubigt:*  
Hannoun



Components:

- 1 Primer (where required)
- 2 Liquid synthetic material
- 3 Polyester fleece layer (approx. 110 g/m<sup>2</sup>)

Applicable to the roof waterproofing "**818 Alfa proteXos ETAG Flüssigabdichtung 1K**":

Minimum layer thickness	2.0 mm	
minimum quantity consumed:	3.0 kg/m <sup>2</sup>	
<u>Levels of use categories according to ETAG 005 with relation to:</u>		
Working life:	W3 (25 years)	
Climatic zones	M und S (moderate and severe climatic)	
Resistance to mechanical damage (perforation) (compressible and non-compressible substrates)	P1 bis P4	
Roof slope	S1 to S4 ( each roof pitch )	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	B <sub>ROOF</sub> (t <sub>1</sub> )*
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor μ		μ ≈ 2310
Watertightness		pass
Statement on dangerous substances		see section 3.2
Resistance to plant roots		No performance assessed
Resistance to wind loads		≥ 50 kPa
Resistance to slipperiness		No performance assessed

\* Class **B<sub>ROOF</sub> (t<sub>1</sub>)**

The classification is valid for the following supporting decks:

- all roof pitches < 20°
- any wooden continuous deck with a minimum thickness of 16 mm and with gaps not exceeding 0,5 mm
- any non-combustible continuous deck with a minimum thickness of 10 mm
- two layers of bitumen sheeting

Any other roof systems for which classification documents for B<sub>ROOF</sub> (t<sub>1</sub>) according EN 13501-5 are available.

**"818 Alfa proteXos ETAG Flüssigabdichtung 1K"**

Alfa GmbH

**System built-up, levels of use categories and performances of the product**

Annex A

### Installation

The levels of use categories and the performances of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel,
- installation of only those components which are marked components of the kit,
- installation with the required tools and adjuvants,
- precautions during installation,
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product,
- inspecting compliance with suitable weather and curing conditions,
- ensuring a thickness of the cured waterproofing of at least 2.0 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

electronic copy of the eta by dibt: eta-18/0081

<b>"818 Alfa proteXos ETAG Flüssigabdichtung 1K"</b> Alfa GmbH	Annex B
<b>Intended use</b> Specifications	