

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-13/0654**  
**of 26 October 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

HydroStopEU AlphaHybrid 5300 System

Product family  
to which the construction product belongs

Liquid applied roof waterproofing on the basis of  
polyurethane

Manufacturer

Quest Construction Products UK Ltd.  
Units 1 & 2  
Eldon Way  
BIGGLESWADE, BEDFORDSHIRE SG 18 8NH  
GROSSBRITANNIEN

Manufacturing plant

Quest Construction Products UK Ltd.  
Units 1 & 2  
Eldon Way  
BIGGLESWADE, BEDFORDSHIRE SG 18 8NH  
GROSSBRITANNIEN

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.

This version replaces

ETA-13/0654 issued on 12 June 2013

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## Specific Part

### 1 Technical description of the product

The liquid applied roof waterproofing "HydrostopEU AlphaHybrid 5300 System" is a kit, which consists of the components:

- liquid applied roof waterproofing "HydrostopEU AlphaHybrid 5300" on the basis 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.

As an assembled system these components form a homogeneous seamless roof waterproofing. The components and the system build-up of the roof waterproofing "HydrostopEU AlphaHybrid 5300 System" are given in Annex A.

### 2 Specification of the intended use in accordance with the applicable EAD

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

The levels of use categories are given in Annex A.

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 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.

### 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

<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.

### 3.2 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>	The product does not contain these dangerous substances. <sup>b)</sup>
Release scenario regarding BWR3:	
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 is 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> (t1)	3
	For uses subject to reaction to fire	E	3
	All other roof waterproofing uses (all other characteristics)	—	3

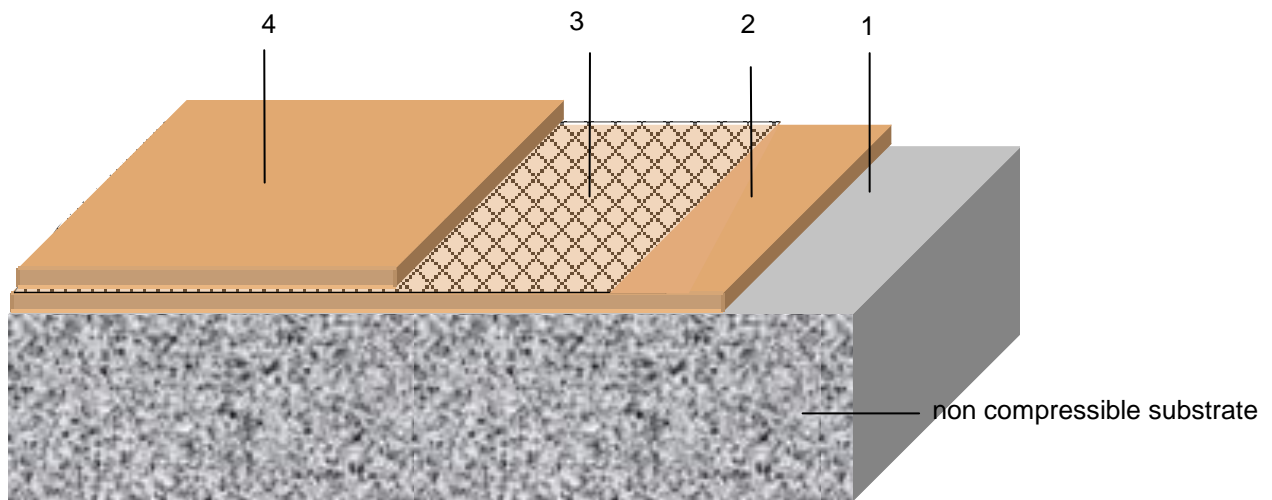
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

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 26 October 2017 by Deutsches Institut für Bautechnik

Dr.-Ing. Lars Eckfeldt  
Head of Department

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Gnamou



#### Components

- 1 Primer (where required)
- 2 1<sup>st</sup> layer of liquid synthetic material "HydrostopEU AlphaHybrid 5300"
- 3 Polyester fleece layer "HydrostopEU 5300 Polyestervlies"
- 4 2<sup>nd</sup> layer of liquid synthetic material "HydrostopEU AlphaHybrid 5300"

#### Applicable to the roof waterproofing "HydrostopEU AlphaHybrid 5300 System"

Polyester fleece with at least a weight of	110g/m <sup>2</sup>	165g/m <sup>2</sup>
Minimum layer thickness	1.5 mm	2.5 mm
minimum quantity consumed:	2.5 kg/m <sup>2</sup>	3.5 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 and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation) (non-compressible substrates)	P1 to P3 (from low to normal)	P1 to P4 (from low to high)
Roof slope	S1 to S4 (all slopes)	
Lowest surface temperature	TL3 (-20 °C)	TL4 (-30 °C)
Highest surface temperature	TH3 (80 °C)	TH4 (90°C)
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	B <sub>ROOF</sub> (t <sub>4</sub> )*
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor $\mu$	$\mu \approx 2950$	
Watertightness	pass	
Statement on dangerous substances	see section 3.2	
Resistance to plant roots	resistant	
Resistance to wind loads	$\geq 50$ kPa for tear resistant substrates	
Resistance to slipperiness	no performance determined	

#### \*Class B<sub>ROOF</sub> (t<sub>4</sub>)

The classification is valid for the following supporting decks:

- for roof pitches  $\leq 10^\circ$
- any non-combustible continuous deck with a minimum thickness of 18 mm

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

**HydroStopEU AlphaHybrid 5300 System**  
Quest Construction Product UK Ltd.

**System built-up and classifications**

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 1.5 respectively 2.5 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

<b>HydroStopEU AlphaHybrid 5300 System</b> Quest Construction Product UK Ltd.	Annex B
<b>Intended use</b> Specifications	