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European Technical Assessment ETA-05/0152

Third issue*

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011:

Trade name

Hydrotech Monolithic Membrane 6125 Roof Waterproofing System

Holder of assessment:

Alumasc Exterior Building Products Ltd
White House Works
Bold Road
Sutton, St Helens
Merseyside WA9 4JG
United Kingdom
Tel: +44 (0) 1744 648400
e-mail: roofing@alumasc-exteriors.co.uk
website: www.alumascroofing.co.uk

Generic type and use of construction product:

Liquid-applied roof waterproofing kit based on hot-applied, polymer-modified bitumen

Issued on:

4 August 2015

Manufacturing plant:

Hydrotech Membrane Corporation
10951 Parkway Boulevard
Ville d'Anjou
Quebec
QC H1J 1S1
Canada

This European Technical Assessment contains::

5 pages plus one Annex which forms an integral part of the document

Basis of ETA::

This European Technical Assessment is issued in accordance with Regulation (EU) No. 305/2011, on the basis of the *Guideline for European Technical Approval (ETAG) of Liquid-Applied Waterproofing Kits 005, Part 1 General and Part 5 Specific Stipulations for Kits Based on Hot-Applied Polymer Modified Bitumen*, Edition March 2000 (Revised March 2004) used as the European Assessment Document (EAD).

This Assessment replaces:

European Technical Approval 05/0152 valid from 15 December 2010 to 31 August 2015



Member of EOTA

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1 Technical description of the product

The Hydrotech Monolithic Membrane 6125 Roof Waterproofing System is a kit based on a hot-applied, polymer-modified bitumen waterproofing membrane reinforced with a spunbond polyester scrim.

The following products are included in the kit:

- Hydrotech Monolithic Membrane 6125 — hot-applied, polymer-modified waterproofing membrane
- Flex-Flash F — a spunbond polyester scrim with a nominal mass per unit area of 50 g·m⁻² for use as a reinforcement embedded in the waterproofing membrane
- Hydrogard Protection sheet — glassfibre reinforced bitumen sheet used as protection over the waterproofing membrane
- Alumasc Bitumen Primer — a bitumen based primer for use on concrete and wood surfaces to promote adhesion
- Flex-Flash UN — an uncured polychloroprene membrane used to reinforce the waterproofing membrane at joints, details and upstands where movement is likely to occur.

The kit is used to produce a homogeneous roof waterproofing membrane to the following specification:

- a first coat of Hydrotech Monolithic Membrane 6125, nominally 3 mm thick, with embedded Flex-Flash F polyester reinforcement, followed by a second coat of Hydrotech Monolithic Membrane 6125, nominally 3 mm thick. The total nominal thickness of the waterproofing membrane is 6 mm.

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

For use as a liquid-applied roof waterproofing in inverted or protected roof specifications with maximum slope of 15° on the following substrates:

- primed concrete⁽¹⁾
- prepared plywood.

(1) The concrete substrate must comply with the relevant requirements of the Assessment holder's installation instructions.

The provisions made in this European Technical Assessment are based on an assumed working life for the roof of 25 years. The indications given in the working life cannot be interpreted as a guarantee given by the producer, but are 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 (ER1)

Not relevant.

3.2 Safety in case of fire (ER2)

No performance determined (NPD)⁽¹⁾.

(1) The assembled system is always used protected. Consequently, external fire performance is dependent on the covering/ballast layer used in the roof specification. Deemed-to-satisfy coverings are listed in the Annex of Commission Decision 2000/553/EC.

3.3 Health, hygiene and the environment (ER 3)

Characteristic	Method	Category
Resistance to water vapour	BS 3177 : 1959 (25°C, 0/75% rh)	See Annex A
Watertightness	EOTA TR-003	See Annex A
Resistance to wind loads	EOTA TR-004	NPD
Resistance to dynamic indentation	EOTA TR-006	See Annex A
Resistance to static indentation	EOTA TR-007	See Annex A
Resistance to fatigue movements	EOTA TR-008	See Annex A
Effect of low surface temperatures	EOTA TR-006 CAN/CGSB 37.50-M89	See Annex A See Annex A
Extreme low temperatures	EOTA TR-006 EOTA TR-013	NPD –
Effects of high surface temperature	EOTA TR-007	See Annex A
Resistance to heat ageing	EOTA TR-011 EOTA TR-006 EOTA TR-008 CAN/CGSB 37.5-M89	See Annex A See Annex A See Annex A See Annex A
UV radiation in the presence of water	EOTA TR-010 EOTA TR-006	NPD
Resistance to water ageing	EOTA TR-012 EOTA TR-007 CAN/CGSB 37.5-M89	See Annex A See Annex A See Annex A
Root resistance	NPD	–
Content and/or release of dangerous substances ⁽¹⁾	Manufacturer's declaration	See Annex A

(1) The manufacturer has made a declaration that the product does not contain any dangerous substances.

3.4 Safety in use (ER4)

Characteristic	Method	Category
Resistance to wind loads	NPD	See Annex A
Resistance to water ageing	EOTA TR-012 EOTA TR-004	See Annex A See Annex A
Slipperiness	EN 13893	NPD

3.5 Protection against noise (ER 5)

Not relevant.

3.6 Energy economy and heat retention (ER 6)

Not relevant.

3.7 Related aspects to serviceability

Characteristic	Method	Category
Effect of application conditions:		
– Effects of remelting	CAN/CGSB 37.50-M89	See Annex A
– Effects of prolonged heating	CAN/CGSB 37.50-M89	See Annex A

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

According to the Decision 98/599/EC⁽¹⁾ and amended by Decision 2001/596/EC of the European Commission⁽²⁾, the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table applies:

(1) Official Journal of the European Communities L 287 of 24.10.1998

(2) Official Journal of the European Communities L 209 of 02.08.2001

Product	Intended use	Level or class	System
Liquid applied roof waterproofing kits	For all roof waterproofing uses	–	3

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

Tasks of the manufacturer

The manufacturer must make a declaration of conformity, stating that the construction product is in conformity with the provisions of the European Technical Assessment.



On behalf of the British Board of Agrément

John Albon Head of Approvals –
Construction Products

Claire Curtis-Thomas
Chief Executive

Date of Third issue: 4 August 2015

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF HYDROTECH MONOLITHIC MEMBRANE 6125 ROOF WATERPROOFING SYSTEM

This annex applies to the Hydrotech Monolithic Membrane 6125 Roof Waterproofing System kit described in the main body of the European Technical Assessment.

The substrates applicable to this kit are defined in the main body of the European Technical Assessment.

The kit has the following characteristics:

- water vapour permeability — $0.18 \text{ g}\cdot\text{m}^{-2}\cdot\text{day}^{-1}$
- resistance to wind loads — the kit is always used ballasted in inverted and protected roof specifications
- nominal thickness of waterproofing membrane — 6 mm
- effect of application conditions
 - effect of remelting — satisfactory
 - effect of prolonged heating — satisfactory

The categorisation of levels of performance in accordance with ETAG 005 are:

- External fire performance — NPD
- Reaction to fire — Euroclass F (NPD)
- Categorisation by working life — W3
- Categorisation by climatic zones — M
- Categorisation by imposed loads — P1⁽¹⁾
- Categorisation by roof slope — S1
- Categorisation by surface temperature
 - lowest — TL1
 - highest — TH1
- Statement on dangerous substances — None contained
- Root resistance — NPD
- Slipperiness — NPD

(1) P1 level of performance relates to use with the thinnest protection sheet, Hydrogard 20.

