

# PRODUCT CERTIFICATE

## Hydrotech Membrane (MM6125) system



### KEY INFORMATION

CERTIFICATE: GM-CM30102 Rev D

<b>1</b>	<b>SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT</b>
	Hydrotech (MM6125) membrane system (the system) is a monolithic membrane made from a formulation of refined asphalts and synthetic rubbers, and accessories. The MM6125 is applied in two, 3 mm layers with a fabric reinforced layer sandwiched between these layers. The system provides a flexible, seamless, self-healing monolithic membrane. The components of the system are listed in section 9.
<b>2</b>	<b>SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT</b>
	<ol style="list-style-type: none"> <li>1. The system has been assessed as a waterproofing membrane solution for use in cold roof and deck assemblies, and protected membrane roof and deck (PMR) assemblies.</li> <li>2. The system will resist the effects of wind uplift likely to occur in practice.</li> <li>3. The system may be used on buildings within the following scope: <ol style="list-style-type: none"> <li>a. On new buildings or existing buildings in all exposure zones, excluding microclimates, as defined by NZS3604: 2011.</li> <li>b. On reinforced concrete substrates with any pitch including zero pitch defined as less than 1:100/0.5°, gutter fall must be maintained at a minimum of 1:100/0.5°.</li> </ol> </li> </ol>
<b>3</b>	<b>BUILDING CODE PROVISIONS</b>
	<p>If designed, used, installed and maintained in accordance with the scope and conditions of this Certificate, the system will comply with or contribute to comply with the following provisions of the NZBC:</p> <p>Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2, B1.3.3 (b), (c), (f), (g), (h), (m), (n), (q), B1.3.4</p> <p>Clause B2 DURABILITY: Performance B2.3.1 (a) where ballast, green roof or concrete topping slab are used and B2.3.1 (b) where not, B2.3.2 (b)</p> <p>Clause E2 EXTERNAL MOISTURE: Performance E2.3.1, E2.3.2, E2.3.7.</p> <p>Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.</p>

<b>4</b>	<b>CERTIFICATE HOLDER DETAILS</b>
	<p><b>Allco Waterproofing Solutions Ltd</b></p> <p>5 Te Kea place, Albany, Auckland, New Zealand</p> <p>Info@allco.co.nz Tel: 09 448 1185, www.allco.co.nz</p>

ISSUED	LAST UPDATE	EXPIRY
11/04/2019	21/06/2022	11/04/2025
<b>5 SIGNATURE</b>		
		
<p>Herve Michoux Global Mark Managing Director</p>		

<b>6</b>	<b>PRODUCT CERTIFICATION BODY</b>
	<p><b>Global-Mark Pty Ltd</b> 57 Willis Street Wellington, 6011 customer.service@global-mark.co.nz +64 9 889 0622 <a href="http://www.global-mark.co.nz">www.global-mark.co.nz</a></p>
The complaints process for this certificate can be found here:	
<a href="https://www.global-mark.com.au/?s=complaint">https://www.global-mark.com.au/?s=complaint</a>	

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### 7 CONDITIONS AND LIMITATIONS OF USE

- 1) An Allco Design Declaration, signed by the designer, that the conditions of this certificate relevant to the design phase have been met must be submitted with the Building Consent application
- 2) An Allco Installation Declaration, signed by the Allco approved installer, that the conditions of this certificate relevant to the installation phase and the design details have been met must be submitted with an application for a Code Compliance Certificate.
- 3) Design & Specification of the membrane system must be in accordance with the requirements of the following documentation collectively referenced as the Applicable Technical Specification
  - a) Allco Waterproofing Solutions Hydrotech Cold Roof Solution Specification (V4.0)
  - b) Allco Waterproofing Solutions Hydrotech PMR Solution Specification (V4.0)
  - c) Allco Waterproofing Solutions Hydrotech Details (V1.2)
  - d) Allco Waterproofing Solutions Care and Maintenance Guide (V2.0)
  - e) Hydrotech Pre- Installation & Application Guidelines (June 2004)
  - f) Allco Concrete substrate checklist (V4.0)
  - g) Allco Hydrotech Pre-Installation checklist (V2.0)
- 4) The system must always be protected as follows:
  - a) On PMR assembly: one of the following overlays must be installed over the insulation layer.
 

i) Pavers or floating timber deck on pedestals	iii) Green roof
ii) Ballast (graded stones)	iv) Concrete topping slab

The effect of wind on the overlays described above falls outside the scope of this certificate.
  - b) On a trafficable cold roof/deck assembly: one of the overlays described in 4(a) must be used:
  - c) On a non-trafficable cold roof/deck assembly or where only maintenance related traffic is expected: the membrane must be protected with a layer of Hydroflex 30 or Casali Olympia.

(compliance of the protection systems described above with the Building Code falls outside the scope of this certificate)
- 5) In the case of an existing building where additional loads from an overlay are applied, the suitability of the existing building and substrate must be confirmed and documented by a chartered professional engineer and submitted as part of the building consent application.
- 6) On new buildings, the primary structure and substrate must be specifically designed, by a chartered professional engineer in accordance with NZBC Verification Method B1/VM1 amendment 20 (29 November 2021)
- 7) Assemblies that include substituted details or products fall outside the scope of this certificate.
- 8) Where the membrane is used to line a gutter the gutter shall have sufficient flow capacity to handle the runoff from the particular roof catchment area in accordance with Acceptable Solution E1/AS1 Amendment 11 (5 November 2020)
- 9) Access to drainage outlets must be provided for inspection and maintenance.
- 10) When fabric reinforcement used, overlap between sheets must be at least 75 mm and fully sealed by membrane
- 11) Electronic Field Vector Mapping (EFVM) must be installed for all PMR assemblies and for Cold Roof assemblies where the overlay is ballast, green roof or concrete topping slab. Where EFVM is installed, the completed membrane must be electronically tested for damage (and repaired where necessary) prior to the application of the covering layers.
- 12) The weathertightness design of junctions for each specific substrate structure and control joints is the responsibility of the building designer and is outside the scope of this Certification.
- 13) Installation of the membrane system must only be carried out by or supervised by an approved Allco Waterproofing Solutions applicator.
- 14) When designing the overlay, the membrane must not be subjected to compression pressure exceeding 680 kPa. The design, specification, supply and installation of insulation (in PMR) and overlays (refer limitation 4 above ) falls outside the scope of this certificate.

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- 15) Only vegetation compatible with the root barrier specification must be used on green roof applications.
- 16) Separation or protection must be provided from heat sources such as fire places, heating appliances, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 amendment 5 (05 November 2020) - C/AS2 amendment 2 (05 November 2020) and NZBC Verification Method C/VM1 amendment 5 (05 November 2020) provide methods for separation and protection of combustible materials from heat sources.

### 8 HEALTH AND SAFETY INFORMATION

Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature must be observed at all time. In particular the application of Hydrotech Membrane (MM6125) system requires the use of a melter, torches and/or burners which introduces a number of Hazards such as hot surfaces and material.

- Site must have within easy reach a properly rated, fully charged fire extinguisher (B/C rated extinguisher is recommended).
- Check with the melter, torch or burner manufacturer for instructions covering the equipment operating procedures, safety and maintenance BEFORE firing it up.
- Proper clothing and PPE are essential when working around or near melters, torches or burner.

Please refer to Hydrotech Safety Data Sheet (SDS) for Monolithic Membrane 6125®, date of issue 11/01/2017.

### 9 SUPPORTING INFORMATION ABOUT DESCRIPTION

- |   |  |  |  |
|---|--|--|--|
| <ul style="list-style-type: none"> <li>• Hydrotech Flex-Flash-F</li> <li>• Hydrotech Flex-Flash-UN</li> <li>• Hydrotech Flex-Flash-MB (granulated)</li> <li>• Hydrotech Flex-Flash-MB (smooth)</li> <li>• Hydroseal Resin Liquid</li> <li>• Hydroflex 30</li> </ul> | <ul style="list-style-type: none"> <li>• Casali Olympia</li> <li>• Hydrotech Root Stop</li> <li>• Hydrotech Root Stop HD</li> <li>• Hydrotech Root Stop Tape</li> <li>• Casali Eradix</li> <li>• Hydrotech MM6125 Surface Conditioner</li> </ul> | <ul style="list-style-type: none"> <li>• Hydrotech Splice Tape</li> <li>• Hydrotech Bonding Adhesive</li> <li>• Hydrotech Splicing Cement</li> <li>• Hydrotech Lap Sealant</li> <li>• Hydrotech Splice Tape Primer</li> <li>• Aquadrain GS-310 or 15X</li> </ul> | <ul style="list-style-type: none"> <li>• Hydrodrain 300</li> <li>• Hydrotech Stone Filter Fabric</li> <li>• Volclay GS-404</li> <li>• Syntex (grade A1) filter fabric</li> <li>• Scuppers and drainage outlets, supplied by Allco</li> </ul> |
|---|--|--|--|

### 10 SUPPORTING INFORMATION ABOUT INTENDED USE

Nil

### 11 SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

Nil

### 12 BASIS FOR CERTIFICATION

The certification decision is based independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s).

Code Clause	Compliance pathway	Evidence
B1	Alternative solution -Expert judgement	001, 002, 003, 005, 006, 007, 008, 009, 010, 011 and 012
B2	Alternative solution -Expert judgement	001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011 and 012
E2	Alternative solution -Expert judgement	001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011 and 012

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F2	Alternative solution -Expert judgement		005, 006, 007, 008, 009, 010, 011, 012 and 013
<b>13 SUPPORTING DOCUMENTATION FOR CERTIFICATION</b>			
Ref	Author	Title	Date and/or revision
001 *	College of Agricultural Sciences, Department of Horticulture	Green Roof Water Proofing Root Resistance Evaluations for American Hydrotech Inc	ANSI/SPRI/GHRC VR-1 2011
002	BBA	HYDROTECH MONOLITHIC MEMBRANE 6125 ROOF WATERPROOFING SYSTEM	90/2431 PS1
003	BBA	HYDROTECH MONOLITHIC MEMBRANE 6125 ROOF WATERPROOFING SYSTEM	90/2431 PS2
004	Ministry of Business Innovation & Employment	Regarding the code-compliance of a zero pitch roof system using a protected liquid-applied membrane	Determination 2016/016
005	Hydrotech	Monolithic Membrane 6125® Safety Data Sheet	11/01/2017
006	Allco Waterproofing solutions Ltd	Allco Waterproofing Solutions Hydrotech Details (V1.2)	V1.2
007	Allco Waterproofing solutions Ltd	Allco Waterproofing Solutions Hydrotech PMR Solution Specification (V4.0)	V4.0
008	Allco Waterproofing solutions Ltd	Allco Waterproofing Solutions Hydrotech Cold Roof Solution Specification (V4.0)	V4.0
009	Allco Waterproofing solutions Ltd	Hydrotech Pre- Installation & Application Guidelines (June 2004)	June2004
010	Allco Waterproofing solutions Ltd	Allco Waterproofing Solutions Care and Maintenance Guide (V2.0)	V2.0
011	Allco Waterproofing solutions Ltd	Allco Concrete substrate checklist (V4.0)	V4.0
012	Allco Waterproofing solutions Ltd	Allco Hydrotech Pre-Installation checklist (V2.0)	V2.0
013	Various	Product data sheets for the various component used in the membrane system	Various
* These documents were provided commercial in confidence and are not publicly available			
<b>14 CONDITIONS RELATING TO NOTIFICATION</b>			
<p>(a) the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:</p> <ul style="list-style-type: none"> <li>(i) the name, address, or contact details of the certificate holder:</li> <li>(ii) any address of a location where a certified product is produced or manufactured:</li> </ul> <p>(b) the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:</p> <ul style="list-style-type: none"> <li>(i) the certified building method or product:</li> <li>(ii) the method of its production or manufacture:</li> <li>(iii) the product quality plan prepared in respect of the certified building method or product:</li> <li>(iv) the application or installation instructions for the certified building method or product:</li> <li>(v) any documentation relating to the use and maintenance of the certified building method or product:</li> </ul> <p>(c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion:</p>			



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(d) if the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:

(e) if the certificate is suspended or revoked, the certificate holder—

- (i) notifies all customers to whom the building method or product is regularly supplied; and
- (ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.

End of the document

