

# Hydrotech MM6125

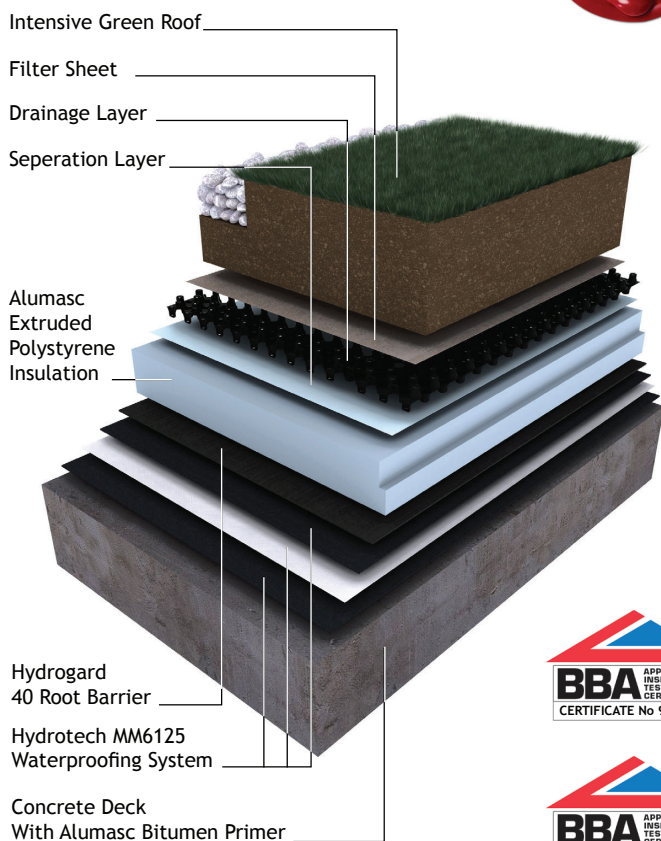
# ALUMASC

ROOFING SYSTEMS

## Hot-Melt Structural Waterproofing - Green Roof

### ✓ When to Specify

The Hydrotech Monolithic Membrane 6125 inverted green roof system offers the benefit of a lifetime insulated waterproofing solution supporting a range of soft landscapes and with the additional benefit of being certificated for use at zero falls, with the associated time, weight and cost savings.



### ☀ Warranties

Alumasc offers a comprehensive range of warranty options. The typical warranty period for Hydrotech MM6125 is 35 years. Installed exclusively by Hydrotech Registered Contractors and underpinned by Alumasc's unique 'Promise' offer, Alumasc warranties cover product, design and installation.

### Key Features

#### Lifespan

Hydrotech MM6125 is approved by the British Board of Agrément, who state "...when fully protected and subjected to normal service conditions, Hydrotech will provide an effective barrier to the transmission of liquid water and water vapour for the design life of the structure/roof in which it is incorporated".

#### Durability

Applied in a liquid state to the deck, and including a polyester reinforcement, the bond of Hydrotech MM6125 is 100% absolute. There is no risk whatsoever of water tracking below the membrane and, because it is monolithic, no possibility of lap failure.

#### Performance

Hydrotech MM6125, the original hot-melt, rubberised bitumen membrane, is designed to last for the lifetime of the building or structure to which it is applied, which means long-term waterproofing integrity and no future replacement costs. Hydrotech root barriers conform to EN 13948.

#### Quality

Hydrotech MM6125 is the only 6mm hot melt rubberised bitumen waterproofing system to hold European Technical Approval (05/0152), which confirms compliance with the EC Construction Products Directive, in addition to BBA Certification and FM approval.

#### Environment

Hydrotech MM6125 hot melt roofing and structural waterproofing is manufactured utilising hydro-electric power as a primary energy source, and manufacturing procedures are independently audited to the BS EN ISO 9001:2008 Quality Management System. Importing materials under Alumasc's ISO 14001:2004 Environmental Management System ensures that upstream production processes are monitored for their environmental impact, and that due consideration is taken for all aspects of packaging, transport and disposal, in order to deliver as sustainable a construction product as practicable.

#### Green Roofs

Green roofs bring many additional benefits including water retention, localised temperature reduction, recreational space, and natural habitat for flora and fauna.



## Hot-Melt Structural Waterproofing - Green Roof

### Application

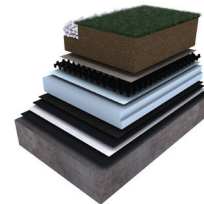
1. Surfaces must be cleaned of all contaminants such as unapproved curing compounds, form release agents, oils, dirt, laitance etc. Alumasc Bitumen Primer is spray applied to the cleaned surface and left to thoroughly dry.
2. Regular bond tests must be executed to ascertain the suitability of the substrate to accept the membrane. Concrete must be wood float finished, or similar, and cured for at least 14, but preferably, 28 days.
3. Before Hydrotech MM6125 can be applied, whether for forming detail work or applying to the main horizontal roof areas, the material must first be melted and heated to the required temperature and mixed to develop its full physical properties. The rubber content of the membrane makes it necessary to use indirect heat, as obtained with an oil or air type double jacketed melter.
4. Upstand details are completed first, before the waterproof membrane is applied to the main horizontal roof area. Flex-Flash UN (uncured neoprene) is used as reinforcement where minor movement in detail work is anticipated.
5. The first coat of Hydrotech MM6125 is applied to a nominal thickness of 3mm.
6. Flex-Flash F fabric reinforcement is embedded whilst the Hydrotech remains warm and tacky.
7. A second coat of Hydrotech MM6125 is applied, also to a nominal thickness of 3mm, fully encapsulating the fabric reinforcement within the membrane.
8. A protecting root barrier of Hydrogard 40 is laid over the completed Hydrotech membrane (overlaps torched).
9. On completion Alumasc will test the integrity of the waterproofing with an electronic detector system to prove that the waterproofing is 100% free from punctures and defects. The issue of the Hydrotech MM6125 warranty is conditional upon the completion of a satisfactory leak test.
10. The waterproofing system is then covered with the specified extruded polystyrene inverted insulation (thickness calculated to meet the required thermal value), separator sheet, drainage layer, filter sheet, growing medium and vegetation, of sufficient weight to resist wind uplift and flotation.

**NB:** Hydrotech waterproofing systems are exclusively installed by a nationwide network of Hydrotech Registered Contractors.

*The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice.  
The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.*

### System Components

- The build-up of drainage layer, filter sheet and growing medium is specified to support soft landscapes such as the intensive type depicted (i.e. roof garden), and also extensive (e.g. sedum, rockery, alpines), biodiverse, and semi-intensive variants.
- The Alumasc polyethylene separator reduces the cooling effect of rainwater on the insulation below, and therefore reduces the thickness of insulant required to meet the target thermal value.
- Alumasc Extruded Polystyrene provides not only high performance thermal insulation, but also protection from mechanical damage and UV degradation, further enhancing the membrane's lifespan.
- Hydrogard 40 root barrier/protection sheet gives a high level of protection to the Hydrotech membrane, and allows immediate access to waterproofed areas.
- Hydrotech MM6125 is a seamless, self-healing, monolithic membrane, made from 100% solids, providing waterproofing integrity for the lifetime of the structure in which it is incorporated.



### Technical Support

Alumasc Technical Services provide an extensive project support service that includes site surveys, project specifications, performance calculations (e.g. U-values, condensation risk analysis), CAD detail drawings and general technical advice.

Contact Alumasc Technical Services via:

☎ +44 (0) 1744 648400

✉ [roofing@alumasc-exteriors.co.uk](mailto:roofing@alumasc-exteriors.co.uk)

Online resources are available on our website or via the embedded links below:

#### Web Links

- 📄 Brochures & Datasheets
- 📄 NBS Specifications
- 📄 CAD Drawings for typical details

[www.alumascroofing.co.uk](http://www.alumascroofing.co.uk)