



# Lightbody Street

**WATERPROOFING:** Derbigum Mineral & Alumasc Bluroof

**PROJECT SIZE:** 2,620m<sup>2</sup>

**PROJECT LOCATION:** Liverpool

**Your Complete Roofing Solution**

Environmentally Focussed | Responsibly Sourced | Ethically Driven



# Lightbody Street, Liverpool

## Project Overview

Hartley Locks is a landmark residential development on Lightbody Street in Liverpool, delivering 185 apartments and ten townhouses in a prominent canal-side location. The scheme sits at the Stanley Flight Grade II listed locks, and plays a pivotal role in the wider regeneration of Liverpool's Northern Dock area; transforming a former industrial brownfield site into a thriving residential community.

Developed by Torus, the £55-million project provides 100% affordable housing, alongside generous on-site facilities to support sustainable urban living.

A key feature of Hartley Locks is its strong sustainability agenda. The development is the first residential scheme to connect to Mersey Heat's district heating network, powered by the UK's largest water source heat pump located in the adjacent Leeds-Liverpool Canal. This innovative energy solution significantly reduces carbon emissions and places Hartley Locks at the forefront of low-carbon residential design.

The scheme was delivered by main contractor Eric Wright Construction, with architectural design by Tim Groom Architects. Input from landscape specialists and the Canal & River Trust ensured the development remained sympathetic to its history and environmental surroundings.

## Client Brief

The Torus vision was to create a high-quality, affordable residential development that would improve the group's overall carbon footprint and act as a benchmark for future sustainable schemes.

Environmental performance was a central driver, with a clear ambition to incorporate green technologies and resilient building solutions wherever possible.

Maximising usable green space was also a key requirement. To help achieve this, the design incorporated two private landscaped podium roof gardens between the three residential blocks, providing valuable outdoor space in an otherwise dense urban environment.

## Solution

Architect Tim Groom specified Alumasc due to our wide-ranging product portfolio and proven ability to deliver solutions aligned with the project's sustainability goals. A comprehensive waterproofing and roofing strategy was delivered through a combination of Alumasc systems, tailored to the varying roof areas across the development.

For the terraces, link roofs and townhouses, 1370m<sup>2</sup> of Derbigum Mineral was specified. Derbigum Mineral is an APP/TPO plastomer modified, composite reinforced, mineral surfaced flat roofing membrane, which is UV resistant and does not require any additional surface coating.

It is fire rated B<sub>ROOF(t4)</sub> to BS EN 1187/4, allowing unrestricted use as defined by the Building Regulations. This made it an ideal solution for exposed residential roof areas where durability and low maintenance were essential.

For the podium garden roofs, 1250m<sup>2</sup> of Alumasc's Hydrotech Bluroof system was installed. The Bluroof system comprises a single source, fully warranted waterproofing and drainage solution designed to alleviate flood risk by attenuating stormwater via controlled discharge over a 48-hour period at roof level. This aligned closely with the sustainability objectives of the scheme.

To support the roof's attenuation strategy, Alumasc also collaborated with Eric Wright Construction to produce the required blue roof hydraulic calculations, ensuring the system met the development's specific runoff and SuDS performance targets.

The Bluroof build-up comprises a geotextile filter fabric, geocellular void former, flow control outlets and overflow to preserve the roof's integrity. The system is designed to meet individual project requirements, and is suitable for use across all building sectors.

The Hydrotech membrane is a hot melt system applied in a liquid state, creating a seamless finish and containing 30% recycled content. The system achieves a fire classification rating of B<sub>ROOF(t4)</sub> and is known for its exceptional performance and longevity. Hydrotech/Bluroof is BBA certified for the service life of the roof in which it is incorporated, offering long-term assurance for both client and residents.

All systems were installed by Alumasc's registered installer, MAC Roofing, ensuring consistent quality and compliance across the different substrates and roof types. The installation was backed by Alumasc's comprehensive 35-year warranty.

## Collaboration

Strong collaboration between all partners was fundamental to the success of Hartley Locks. The project benefitted from Alumasc's established working relationship with Eric Wright Construction, enabling early engagement and efficient coordination around design, technical detailing and installation logistics.

This team approach was further supported by MAC Roofing, whose in-depth experience with Alumasc systems proved invaluable when addressing the technical demands of the multiple roof areas. Their practical skill and product knowledge ensured all areas of installation were optimised for reliability and long-term performance.

Close working relationships were maintained with Tim Groom Architects throughout the project. Regular communication and technical guidance from the early design stages resulted in a waterproofing strategy which fully reinforced the project's architectural and environmental goals.

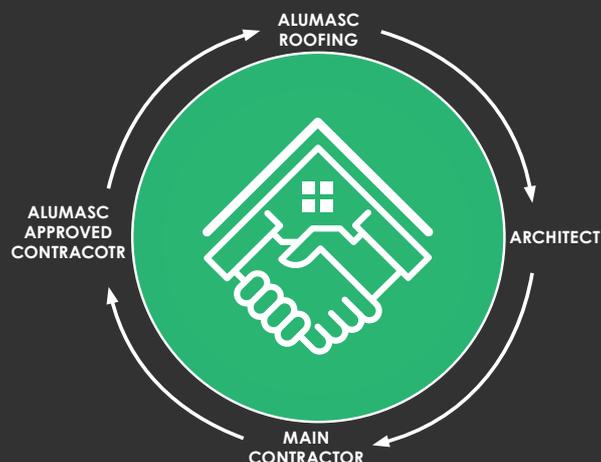
Underpinned by Alumasc's extensive technical support, this combined expertise and coordinated team effort has provided Hartley Locks with a robust, futureproof waterproofing system that will protect the building and its residents for many years to come.

# Project Information

Architect: **Tim Groom Architects**

Client: **Eric Wright Construction**

Alumasc Registered Contractor: **MAC Roofing**



## Specified systems

### Derbigum Mineral

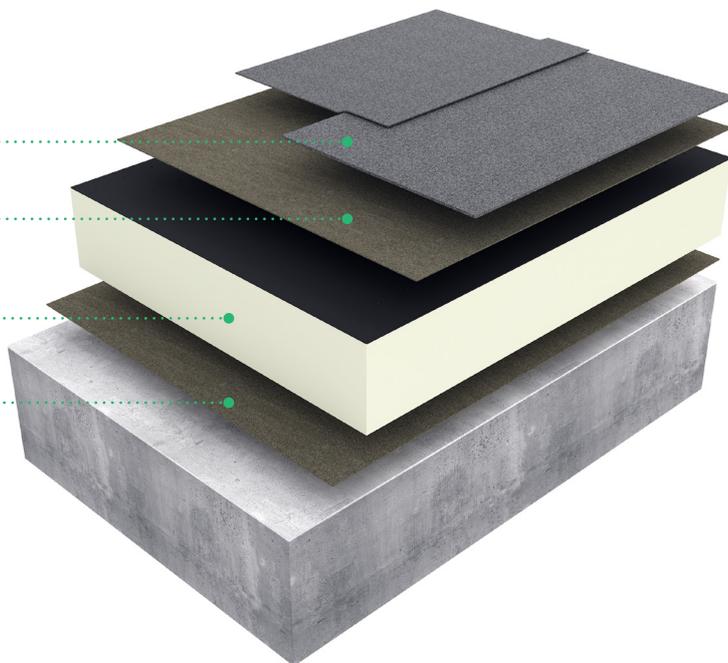
Derbigum Roofing Systems comprise a premium range of reinforced APP polymer modified bituminous waterproofing membranes, underlays, insulation boards and air and vapour control layers (AVCL). Derbigum has a proven track record since 1967 and is subject to the highest levels of certification and testing.

Derbigum Mineral

Torch-On Underlay

PIR Insulation or Class A fire rated alternative

Eurorooft Torch-On AVCL



## Features & Benefits

- ✓ Flexibility of product specification
- ✓ Robust, proven durability
- ✓ Life expectancy in excess 50 years
- ✓ Warranty cover up to 35 years

## Approvals

- ✓ BBA Certificate No. 86/1593
- ✓ Fire classification of B<sub>ROOF</sub> (t4) in accordance with BS EN 13501-5

## Specified systems

### Alumasc Bluroof

Alumasc BluRoof systems comprise a single source, fully warranted waterproofing and sustainable drainage solution designed to alleviate flood risk by attenuating stormwater via controlled discharge over a 48-hour period at roof level. The key components include a geotextile filter fabric, geocellular void former, flow control outlets and overflow to ensure that the roof's integrity is preserved.

#### Surface Finishes

Bluroof Geotextile Filter Fabric

Bluroof Void Former

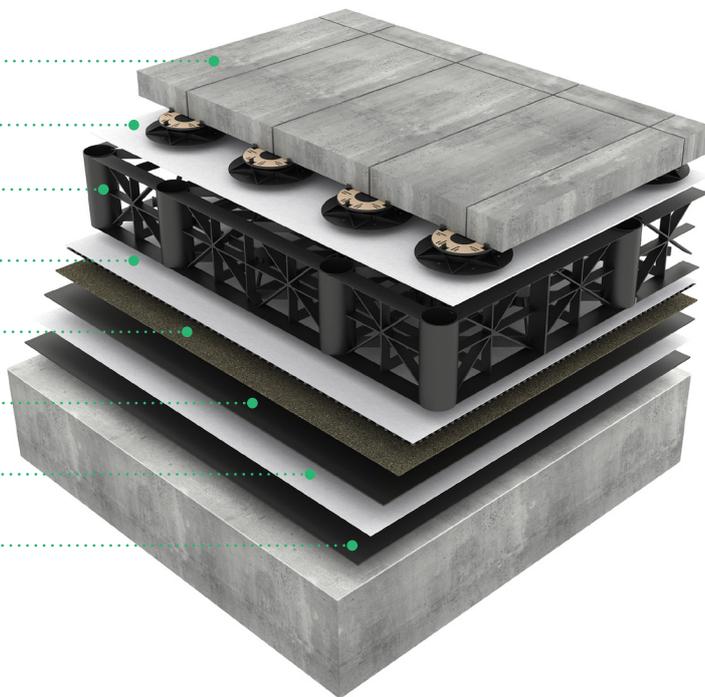
Hydrodrain FC6

Hydrogard Protection Sheet

Hydrotech MM6125

FlexFlash F (polyester reinforcement)

Hydrotech MM6125



## Features & Benefits

- ✓ Single source solution
- ✓ Accommodates structural movement
- ✓ Alleviates flood risk
- ✓ Facilitates phased construction
- ✓ Durability - service life of the building
- ✓ Completely monolithic, no seams
- ✓ Warranty cover up to 35 years

## Approvals

- ✓ Hydrotech/BluRoof Monolithic Membrane 6125 - BBA Certificate No. 90/2431