Kara Street

WATERPROOFING: Alumasc Single Ply Membranes

PROJECT SIZE: 4,000m^2

PROJECT LOCATION: Salford

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ALUMASC ROOFING

Kara Street, Salford

Project Overview

Kara Street is an ambitious project of residential homes completed in Salford, Greater Manchester, by Salix Homes in partnership with Watson Homes.

The new eco-friendly development comprises over 150 new homes, including two-, three- and four-bedroomed houses, alongside one- and two-bedroomed apartments. 90 of the homes are earmarked for affordable social housing for sale, rent and shared ownership. Each property boasts a range of sustainable features, including low-energy lighting and electric car-charging points.

The £26-million project has seen the development of two neglected brownfield sites at Kara Street and Liverpool Street, in the Seedley South area of Salford. The sites had lain dormant for over a decade, but have now been brought to life by Salix Homes, addressing the urgent need for local housing and community regeneration.

The project architecture is a modern play on the terraced homes synonymous with Manchester. Some of the properties boast a private raised terrace, whilst a public green space sits at the heart of the development, adorned with 86 newly-planted trees.

Client Brief

The project presented varied roofing requirements with many intricate interface details between different substrates. The client required a single-source supplier with an extensive waterproofing portfolio capable of providing relevant solutions to meet the individual requirements of each area.

Solution

Kara Street posed a number of challenges due to its unique mix of apartment blocks and town houses. Some of the properties were designed with accessible terraces, which include large skylights to let natural light flood in to the living spaces below. Termination of the waterproofing at this juncture was a particular challenge due to the glazing.

Alumasc supplied a comprehensive, cost-effective package of waterproofing solutions, from single ply systems on main warm roof areas, two-layer felt systems on the accessible warm roof terraces, cold applied liquids for ground-floor cold roof balconies, and secondary waterproofing around all balustrades.

Installation of all systems was carried out by Alumasc's Registered Installer, Enviroply Roofing; starting with 4000m^2 of Alumasc Single Ply installed to the main warm roof areas. Alumasc Single Ply is a mechanically fixed reinforced membrane system. It comprises a multi-layered thermoplastic 1.5mm PVC-P roofing membrane reinforced with woven polyester, ancillary components, insulation boards and air and vapour control layers (AVCL).

It has a proven track record of over forty years, and has been a trusted solution in numerous projects within the social housing sector. It is suited to lightweight fast-track construction, specifically for warm roofs, making it the ideal solution for Kara Street.

On the warm roof terraces with decked areas, Alumasc Single Ply Fleece-Backed Membrane was installed. This system is adhered using a compatible cold applied adhesive, and comprises a multi-layered thermoplastic roofing membrane reinforced with a glass fleece.

Fully adaptable to meet the individual requirements of both new-build and refurbishment roofing projects across all building sectors, Alumasc Single Ply is subject to the highest levels of certification and testing. It is Manufactured in accordance with ISO 9001:2015 and ISO 14001:2015. It is BBA certified and achieves a fire classification rating of BROOF (t4) in accordance with BS EN 13501-5.

Alumasc's Euroroof membrane was installed to housing unit balconies. Euroroof is a premium high-performance system comprising a reinforced APP polymer modified bituminous waterproofing membrane, underlays, insulation boards and air and vapour control layers (AVCL). It is particularly suited to roof decking.

To complete the product package, Caltech QC was installed to the cold roof balconies on ground floor apartment blocks. Caltech QC liquid waterproofing is particularly well suited for complex detailing due to its versatility and ability to conform to intricate shapes and surfaces. This presented the perfect solution across all of the ground-floor balustrades.

This all-inclusive waterproofing installation was supplied with a 20-year warranty, and was completed with all associated trims and roof outlets, ensuring continual performance and durability for the service life of all the roofs across the Kara Street development.

Team Work

Watson Homes is committed to delivering sustainable developments and innovative social housing projects for their clients. As their preferred supply chain partner, Alumasc worked closely with Watson Homes' technical design team to provide a robust solution and bespoke standard details.

The Alumasc technical team and installers Enviroply Roofing worked together from the outset. This successful collaboration, and our collective ability to provide and install the most time-efficient, technically robust roofing package, were instrumental in the resulting success of the Kara Steet installation.

Benefits

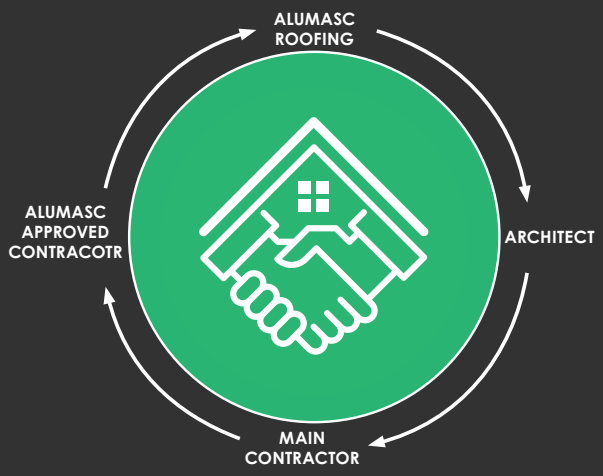
The mechanically fixed PVC used in the Alumasc Single Ply system is easily removed at the end of its life, and can be recycled back into the production process to create new raw material. This fully supports the eco objectives of the project, and contributes to the high standards of environmental responsibility that have been present throughout the project.

Project Information

Client: **Watson Homes**

Architect: **BDP**

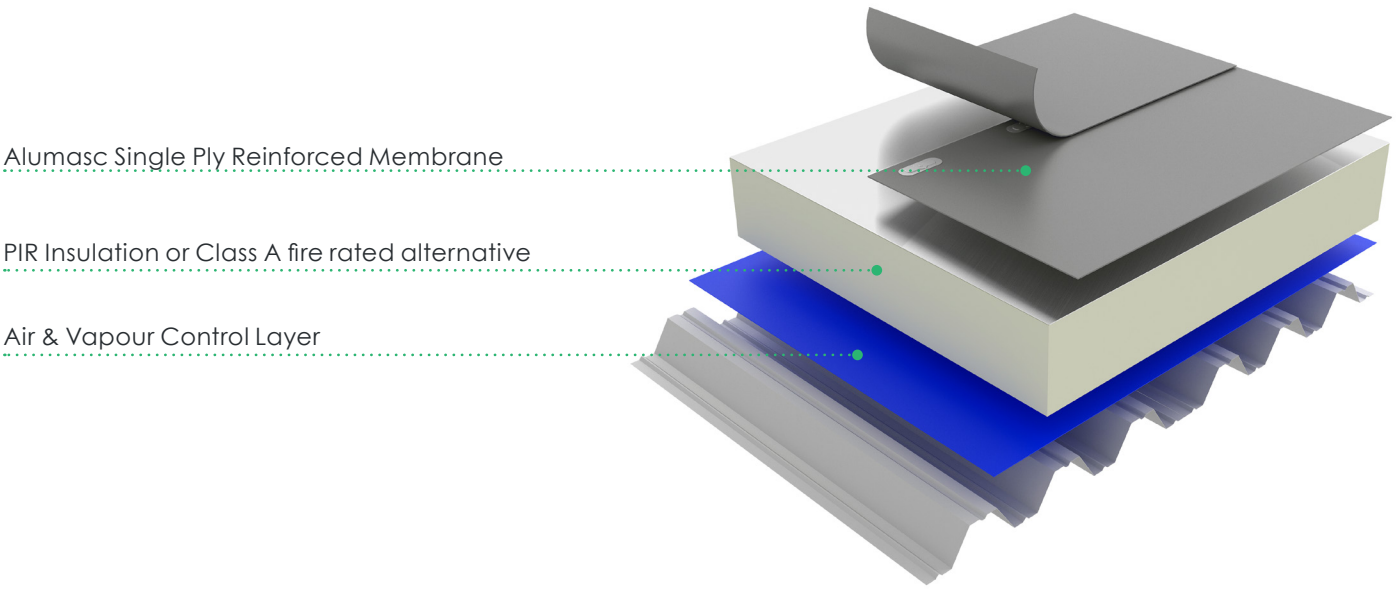
Alumasc Registered Contractor: **Enviroply Roofing**



Specified system

Alumasc Single Ply Reinforced Membrane

Alumasc Single Ply comprises a range of multi-layered reinforced thermoplastic 1.5mm PVC-P roofing membranes. Fleece-backed membrane for bonded applications and unbacked for mechanical fastening.



Features & Benefits

- Lightweight, flexible, cost effective
- Speed of installation
- Life expectancy in excess of 40 years
- Warranty cover up to 20 years

Approvals

- BBA Certified
- Fire classification of BROOF (t4) in accordance with BS EN 13501-5