



*Rely on it.*

# A blue roof for a green city.

RENOLIT ALKORPLAN Green



# Blue-green roof solution on a London dwelling

## CHALLENGE

*8a Belmont Street comprises two unique semi-detached dwellings, which have been constructed in Chalk Farm, London by a private developer Maygrove Projects in collaboration with Martin Evans Architects. The total roof area covers only 55.03m<sup>2</sup> but features an unusual roof design; it is divided into five sections comprising two glazed roofs and three blue roof areas. For this warm roof construction, an alternative durable waterproofing was sought, suitable for blue roof application.*

## SOLUTION

Approved Roofing Contractor Gribben Solar Roofing provided an alternative blue roof solution to the original design proposed by the project architects, fully complying with their needs. Together with partner and single ply manufacturer **RENOLIT** they proposed a waterproofing solution for the blue roof in the form of a fully bonded **RENOLIT ALKORPLAN L<sub>35A77</sub>** membrane, to be combined with the **RENOLIT ALKORPLAN** Green roof system. So, actually, a blue-green roof!

## Watertight seams

A blue roof controls the flow of roof drainage by providing temporary storage and a slower release of rainwater. In addition to a structure that can accommodate the weight of the detained water, for this specific application a waterproofing system was needed that tolerates long-term and more frequent water ponding events. That is precisely the reason why the combination of the **RENOLIT ALKORPLAN L<sub>35A77</sub>** green roof membrane with a blue roof system works particularly well. Thanks to the hot-air welded seams, **RENOLIT** thermoplastic single ply membranes offer a completely watertight and extremely durable waterproofing system. After all, the **RENOLIT ALKORPLAN** membrane has a proven durability up to 40 years, as assessed by the BBA. Thanks to more than 45 years of experience, **RENOLIT** stands for quality and reliability, which is essential when opting for a blue roof application. Besides, **RENOLIT ALKORPLAN** membranes are highly flexible and versatile, absolutely an asset when it comes to unusual roof shapes.



Photography [www.johncairns.co.uk](http://www.johncairns.co.uk)

## Blue and green

The two dwellings have 5 roof sections, beneath the **RENOLIT ALKORPLAN** L<sub>35A77</sub> membrane on the blue roofs is a plywood deck. ACO Roofbloxx units are installed on top of **RENOLIT ALKORPLAN** L<sub>35121</sub> separation layer, covering the waterproofing membrane. On top of the roofblox there is a **RENOLIT** green roof build-up: 300g filter layer, 50 mm substrate and, finally, the sedum turf. ACO Roofbloxx is a roof attenuation system for blue and blue-green roofs. A cost-effective, high performance solution that gives architects the design flexibility required to create aesthetic, environmental open green spaces on a roof. Quite important these days for city planning. Blue roofs enable water storage and irrigation of green roofs, green roofs on the other hand help reduce the effect of heat islands, create biodiversity and ameliorate air pollution. As **RENOLIT** is strongly committed to protecting the environment, they were delighted to take part in this sustainable project of urban greening in view of a climate conscious and environmentally friendly city.





#### PRIVATE DWELLINGS

- London
- Roofing Contractor: Gribben Solar Roofing
- Main Contractor: Maygrove Projects
- Architect: Martin Evans Architects

#### PRODUCTS

- Plywood structure
- RENOLIT ALKORPLAN L<sub>35A77</sub> Green : 55,03 m<sup>2</sup>
- RENOLIT ALKORPLAN<sub>35121</sub> separation layer
- RENOLIT ALKORPLUS<sub>81005</sub> filter layer – 300 g
- RENOLIT ALKORPLUS<sub>81017</sub> substrate



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