

Carbon Offset

Orchard Lodge, South East London

1,500m² IKO Hot Melt System Provides Roof for New Residents



Project Description

IKO Permasec Hot Melt Waterproofing System has been specified and installed onto the roofs of three residential apartment blocks in South East London.

The versatile and durable system was applied onto 1,500m² of roof area at Orchard Lodge - a new housing complex developed by Fairview New Homes Ltd on the outskirts of the city centre.

Essex-based contractors, Contour Roofing Ltd, undertook months of planning as well as product training with IKO to ensure its team was confident in the quality and safe application of the hot melt system. Despite specifying other IKO PLC products previously, this was the first time they had used this particular waterproofing solution.



After



IKO Permasec Waterproofing

Product(s) / System(s)

- IKO Permasec
- IKO Permasec Waterproofing System
- IKO enertherm EPS

IKO Guarantee

20-Year Single Point Guarantee

The net carbon footprint of this project is entirely offset using internationally approved carbon credits, which means for every tonne of Mastic Asphalt made, we are helping to fund environmental and humanitarian causes. Carbon Zero: <http://www.co2balance.com/>

Impact Calculator: 39 Tonnes Mastic Asphalt = 6.11 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole (1)
Environment	CO ₂ e prevented through the projects	3.06 tonnes	3.06 tonnes
	Wood Saved	2.46 tonnes	2.15 tonnes
Social	Number of Stoves	1	n/a
	Total People Impacted	5	2
Economic	Working Time Saved	63 hours	n/a
	Working Days Equivalent	8 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	n/a	n/a
	Asthma	n/a	n/a
	Ear, Nose and Throat Irritation	n/a	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	2	n/a
	Clean Water Supplied	n/a	3,813 litres

sales.uk@iko.com

t: 01257 255 771

www.ikogroup.co.uk



BITUMINOUS MEMBRANES | COLD APPLIED LIQUIDS | **HOT MELT** | **MASTIC ASPHALT** | SINGLE PLY
PITCHED ROOF SYSTEMS | **INSULATION** | STRUCTURAL WATERPROOFING & COMPOUNDS



Carbon Offset Orchard Lodge, South East London

1,500m² IKO Hot Melt System Provides Roof for New Residents



Solution and Installation

Firstly, Contour Roofing Ltd applied IKO Permascreed to the cambered pre-cast concrete planks on the roof areas. Designed to provide drainage falls, IKO Permascreed also offers a stable base for the specified waterproofing system. A purpose-built 18 tonne hot charge transporter delivered IKO Permascreed direct to the site ready for use.

The flexibility and fast drying times of the IKO Permascreed System was ideal for this new build project, as a quick installation was vital to ensure internal trades could access the new apartments to complete their works so they were ready on time for the new residents.

Then, the first coat of IKO Permaseal was applied, followed by a reinforcement layer before the second coat of IKO Permaseal was installed.

An IKO Enertherm EPS Insulation layer was also used, which is suitable for use on green roofs and A+ rated in the BRE Green Guide. Coupled with IKO Permascreed Mastic Asphalt Levelling Solution, IKO Permaseal Waterproofing System formed the ideal base for a sedum green roof finish, which was supplied and installed by Sky-Garden.

Jonathan Woods, managing director at Contour Roofing (Essex) Ltd, said: "The success of this project goes far beyond the installation of a quality product on site, but also the months and long hours of planning and health and safety training to ensure we were fully verified and qualified in installing this quality hot melt solution.

Thanks to this hard work and training, we now have full confidence in both the IKO Permaseal Waterproofing System and IKO Permascreed Mastic Asphalt levelling solution and are able to deliver to the highest standards of quality, and most importantly, safety."

Marcus Lee, divisional director at IKO PLC, added: "Our IKO Permaseal Hot Melt System offers a highly durable solution, providing excellent waterproofing performance with toughness, flexibility and adhesion over a wide range of temperatures. Choosing IKO Permascreed provided an ideal addition to the overall waterproofing solution as the special mastic asphalt formulation delivers a fast-drying time, making the roof or deck trafficable much faster than traditional cement screeds. The programme on site was much more streamlined because of this and it minimised any significant delays to other trades."

Contracts Manager at Contour Roofing, Joe McCanna, concluded: "The project was completed on time and within budget to a really high standard - everyone was extremely impressed of how quickly the roofs were finished.

"The ease of application of the IKO Permascreed also meant that precise falls were easy to achieve and the IKO Permaseal roof finish could be applied within a few hours of installation."

Installing Contractor: Contour Roofing Ltd

Client: Fairview New Homes

The data from the Impacts are based on the field work carried out by CO2balance within the project locations in Kenya. The data that is gathered is in line with the requirements of the Gold Standard as part of the annual Monitoring. These Monitoring Reports are available on request. Data is then cross comparable against national averages in Kenya to ensure accuracy. Assumptions and extrapolations

have been used where relevant. The Health Data is derived from the following sources R. Perez-Padilla et al, 2010. 'Respiratory health effects of indoor air pollution' in International Journal of Tuberculosis and Lung Disease, vol. 14 no. 9, pp1079-1086. Kenya National Bureau of Statistics. (2008). Kenya Integrated Household Budget Survey. Ministry of Planning and National

Development, p1-300. 3 Wood saved and clean water supply - Calculations based on field measurements conducted by staff contracted to CO2balance and are conducted according to the requirements defined by the Gold Standard. Monitoring data is available on the Gold standard registry.

sales.uk@iko.com

t: 01257 255 771

www.ikogroup.co.uk



BITUMINOUS MEMBRANES | COLD APPLIED LIQUIDS | **HOT MELT** | **MASTIC ASPHALT** | SINGLE PLY
PITCHED ROOF SYSTEMS | **INSULATION** | STRUCTURAL WATERPROOFING & COMPOUNDS

