

Carbon Neutral Four Squares Estate, Southwark

1,400 Tonnes of IKO Permaphalt inc. IKO Permascreed Waterproofing System

Project Description

In 2013 IKO PLC were asked to investigate issues at the Four Square Estate, Southwark, in respect of the existing access walkways that were surfaced with Mastic Asphalt, by Keepmoat and Southwark Council.

It was agreed that the Mastic Asphalt required replacing, along with screed repairs and new expansion joints. Work commenced in 2014 by Superior Roofing & Building Services Ltd and was completed by 2016.

During the works some 1,400 tonne of IKO Permaphalt was installed along with IKO Permascreed.

A 20 year guarantee was provided giving peace of mind and long term security for the sustainability of the system.

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.

Impact Calculator: 1,400 Tonnes Mastic Asphalt = 218.4 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data
Environment	Wood Saved	57 tonnes
	Area Protected	0.55 hectares
Social	Number of Stoves	22
	Time Saved	1,478 hours
	Children Impacted	68
	Elderly People Impacted	22
	Total People Impacted	119
Economic	Working Time Saved	1,478 hours
	Working Days Equivalent	185 days
Health	Likely reduced cases from project support	
	Respiratory Illness (Lower Chest / Lung)	17
	Asthma	15
	Ear, Nose and Throat Irritation	6
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	38

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



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A Long Term, Bespoke Solution

Working in a large, active and fully populated housing estate with 1,400 tonnes of IKO Permaphalt and IKO Permascreed to install proved challenging.

New covering including, where required, an improvement to the falls, which was achieved using our IKO Permascreed to accommodate the large amount of foot traffic that would occur to the area.

This solution allowed the IKO Permaphalt System to be installed at the required angle needed to generate the final waterproofing solution.

Carbon Zero: <http://www.co2balance.com/>

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.

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