

Carbon Neutral Plot 700, Winnersh Triangle

60 Tonnes of IKO Permaphalt Waterproofing System

Project Description

This project was a new build, where the main contractor specified the need to house a roof/plant room area at the top of a new office block. This required a robust, waterproof roofing solution.

Various systems were looked at from Single-Ply to Hot Melt, however IKO Permaphalt was chosen due to its robustness, speed of install and in an inverted roofing situation, potentially last the lifetime of the building.

The project was undertaken in March and April where the weather was not particularly kind and very changeable, however the roof was installed on budget and on time, even though a tight project time-line of only 6 weeks to complete all work was in place.

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: 60 Tonnes Mastic Asphalt = 9.4 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data
Environment	Wood Saved	3 tonnes
	Area Protected	0.02 hectares
Social	Number of Stoves	1
	Time Saved	67 hours
	Children Impacted	3
	Elderly People Impacted	1
	Total People Impacted	5
Economic	Working Time Saved	67 hours
	Working Days Equivalent	8 days
Health	Likely reduced cases from project support	
	Respiratory Illness (Lower Chest / Lung)	1
	Asthma	1
	Ear, Nose and Throat Irritation	0
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	2

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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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Why IKO Permaphalt?

Originally, it was thought that a Single-Ply, warm roof installation would be the best solution. However, when consulting with IKO about the main requirements for the roofing solution, both pre and during installation, IKO Permaphalt was the obvious choice due to the speed of installation and the robust nature of the materials that would be used.

The roofing area where IKO Permaphalt would be used was scheduled to house the new buildings plant. The decision to go for an inverted roof was a valid one. As the substrate for this section of the roof was newly installed concrete and the waterproofing part of this project was scheduled over colder months, IKO Permaphalt allowed a faster turnaround, a prerequisite for the project. Other waterproofing solutions such as Hot Melt would have required a minimum of 28 days drying time.

IKO Permaphalt was installed on BSF (Black Sheathing Felt), which acts to isolate the asphalt from the concrete deck. Any moisture within the deck would dissipate over time and allow the installation to continue uninterrupted.

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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