

Carbon Neutral Case Study Marks & Spencer, Matlock

4,000m² Tonnes of IKO Permapark Waterproofing System

Project Description

Approached by Caces Consulting to provide a solution to strip and replace failed asphalt coverings. The store was having a full refurbishment by Marks and Spencer as it had recently had a change of ownership.

Along with the fast turn-around time, IKO Permapark Mastic Asphalt was chosen because it offers a minimum of 20 year warranty, giving a fantastic return for the lifespan of the product. This was the only system that could guarantee that the project would be completed on time and on budget given the unknown condition of the existing deck.

Also the ever green features of mastic asphalt meant that the existing asphalt coverings where able to be stripped and removed from site, however rather than going to land fill the old coverings were transported back to the IKO factory at Grangemill to be fully recycled for use within the IKO Permascreed products.



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: 4000 Tonnes Mastic Asphalt = 626.32 Tonnes of CO² Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole (1)
Environment	CO ₂ e prevented through the projects	313.16 tonnes	313.16 tonnes
	Wood Saved	252.27 tonnes	221 tonnes
Social	Number of Stoves	97	n/a
	Total People Impacted	522	179
Economic	Working Time Saved	6,495 hours	n/a
	Working Days Equivalent	812 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	74	n/a
	Asthma	68	n/a
	Ear, Nose and Throat Irritation	27	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	169	n/a
	Clean Water Supplied	n/a	391,063 litres

Carbon Neutral Case Study Marks & Spencer, Matlock

4,000m² Tonnes of IKO Permapark Waterproofing System

Location History

The retail giant's new store, is situated in the former Co-operative premises at Crown Square, on Bakewell Road, officially opened on Wednesday May 4 2016.

The closure in early February 2016 of the rooftop car park, owned by Derbyshire Dales District Council, and stairwells linking the car park to Bakewell Road, formed the initial phase of a three-month programme of improvements part-funded by the council.

The renovations included the complete resurfacing and remarking of the parking area, and the division and fitting out of the existing store into two units, with the main one being occupied by M&S. In October 2015 the district council opted to retain ownership of the supermarket site and improve the rooftop car park rather than take up M&S's offer to buy the site outright.



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 and Uganda. 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

