Carbon Offset
Royal Lancaster Hotel, London

252 Tonnes of IKO Permapark used on the Hotel Car Park

Project Description

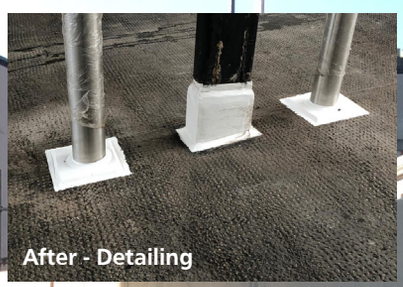
Phase 1: 650m² main car park area

Phase 1 of the car park installation was above the popular ballroom which is a highly sensitive area due to the number of functions that are held throughout the year. The ballroom also consists of a number of very large chandeliers which are fixed to large metal plates above the ceiling directly below the installation area. These plates became visible when the existing car park build-up was removed. Extra care and attention were required to avoid any likely damage to these valuable chandeliers. If these became unsafe or loose at any point, the ballroom would be unusable and functions may need to be cancelled.

Phase 2: 550m² ramp

Due to the close proximity to hotel patrons, the ramp area was very noise sensitive and included the same types of restrictions imposed on phase 1. The ramp was stripped up the centre reservation comprising of granite kerb stones along with 100mm thick sand and cement screed. Around 210 tonnes of spoil was removed and the new mastic asphalt waterproofing, IKO Permapark Insulated Specification (PA4) System was installed.

PA4 system was specified as the installation was over a habitable space and an insulated system was required to have a better control over temperature. The installation comprised of 30mm nominal, 30mm thick single coat IKO Permapark Paving on nominal 20mm thick 2-coat IKO Permapark Waterproofing.


After - Detailing


After - Detailing


After - Phase 1

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: 252 Tonnes Mastic Asphalt = 41.02 Tonnes of CO_2 Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole (1)
Environment	CO^2e prevented through the projects	20.51tonnes	20.51 tonnes
	Wood Saved	16.52 tonnes	14.49 tonnes
Social	Number of Stoves	6	n/a
	Total People Impacted	34	12
Economic	Working Time Saved	425 hours	n/a
	Working Days Equivalent	53 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	5	n/a
	Asthma	4	n/a
	Ear, Nose and Throat Irritation	2	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	11	n/a
	Clean Water Supplied	n/a	25,615 litres

sales.uk@iko.com t: 01257 255 771 www.ikogroup.co.uk

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Project Challenges

The IKO Permapark Mastic Asphalt material was delivered direct from the factory in 18 tonne tankers. As access to the site was quite limited, the material had to be stored 800m away from the installation area. It was then transported to the installation area by using asphalt luggers or "SPAM's" [Self Propelled Asphalt Mixers]. This drastically reduced the time taken to install the material, negating the requirement to 'fetch and carry' the product from the storage area to the area of application.

While excavating the specific areas, additional thickness of 100mm build-up were discovered. Around the more sensitive areas (i.e. chandelier plates), using heavy machinery was not an option. Pics and shovels were used to remove the approx. 80 tonne of spoil as quietly as possible, without losing any time on the project. The spoil was then picked up in the bobcat and taken to a small tipper which was then driven down to the main compound and tipped. Grab lorries removed the spoil to a certified tip.

Despite the unexpected additional build-up that needed to be excavated, strict noise and limited access issues, the works were completed on time and to excellent standards and Phase 3 (1300m^2 of works) has now been awarded to Infallible Systems.

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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