

Carbon Offset Tower Bridge, London

400 Tonnes of IKO Permatrack Bridge Surfacing

Project Description

The bridge was closed in September 2016 for three months while necessary repairs were made to the lifting sections, walkways and approaches. Contractor Infallible Systems of South East London chose the IKO Permatrack Solution to renovate the walkways and tower bases. Existing mastic asphalt was removed and replaced with an IKO Permatrack Bridge Surfacing System over mastic asphalt waterproofing.

Mastic asphalt provides a hard, durable and long lasting material for pedestrians without joints and no trip hazards.

John Chapman of Infallible Systems explains, 'We've been IKO customers since we were founded more than 30 years ago.

The product is excellent, the after-service is fantastic and the Technical Team's help with the initial spec is invaluable.'

The high-profile job was completed a week ahead of schedule, allowing the bridge to re-open before Christmas.



Impact Calculator: 400 Tonnes Mastic Asphalt = 50.11 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data
Environment	Wood Saved	40 tonnes
	Area Protected	0.13 hectares
Social	Number of Stoves	15
	Time Saved	1,039 hours
	Young People Impacted	48
	Elderly People Impacted	15
	Total People Impacted	85
Economic	Working Time Saved	1,039 hours
	Working Days Equivalent	130 days
Health	Likely reduced cases from project support	
	Respiratory Illness (Lower Chest / Lung)	12
	Asthma	11
	Ear, Nose and Throat Irritation	4
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	27

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 Tower Bridge, London

400 Tonnes of IKO Permatrack Bridge Surfacing



History Behind the Location

Tower Bridge is a combined bascule and suspension bridge in London built in 1886–1894. The bridge crosses the River Thames close to the Tower of London and has become an iconic symbol of London. The bridge deck is freely accessible to both vehicles and pedestrians, with more than 21,000 vehicles and 40,000 people using the bridge everyday.

The bridge consists of two bridge towers tied together at the upper level by two horizontal walkways, designed to withstand the horizontal tension forces exerted by the suspended sections of the bridge on the landward sides of the towers. The vertical components of the forces in the suspended sections and the vertical reactions of the two walkways are carried by the two robust towers. The bascule pivots and operating machinery are housed in the base of each tower. The bridge's present colour scheme dates from 1977, when it was painted red, white and blue for Queen Elizabeth II's Silver Jubilee.

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.

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

