

Carbon Neutral Case Study Folkestone Harbour Project, Kent

180 Tonnes of IKO Permaphalt used in the Regeneration of Folkestone Seafront

Project Description

The harbour arm was built in 1897 for the South Eastern Railway Company to connect trains with ships, originally for tourism but absolutely invaluable in the Great War, when men, horses and supplies left from here.

Needing refurbishment as part of the overall major regeneration of Folkestone, the harbour arm's mastic asphalt covering to the upper and lower levels was completely replaced over a period of three years in a series of packages for the Folkestone Harbour Company and their contractors using IKO Permaphalt and Recreational Duty Grade Mastic Asphalt.

The mastic asphalt was chosen because it provides both a durable surface for people to walk on and a waterproof covering helping to protect the structure over occupied spaces that should last at least as long as the original coverings.

The works were overseen by the harbour company's engineer following advice from Knight Asphalte and IKO.

Now complete, the harbour arm houses unique restaurants and bars and provides a superb space open for the public to promenade, fish and enjoy the views, music and events that regularly take place there - when the storms aren't raging!

During storms, huge waves often crash completely over the harbour arm and only the best product and workmanship stands a chance.

The project required dealing with the corroded ironworks and concrete damaged by the sea which created irregular surfaces and also paying close attention to the weather and tides before scheduling deliveries of molten mastic asphalt from IKO who responded with speed and flexibility so we could avoid those times when the conditions prevented works taking place.

Robust detailing to upstands and water chutes through the walls allow the completely submerged surface to rapidly drain as the chutes flow at full bore at times.

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: 180 Tonnes Mastic Asphalt = 28.18 Tonnes of CO² Offset

Impact Sector	Impact	Quantitative Data
Environment	Wood Saved	3 tonnes
	Area Protected	0.4 hectares
Social	Number of Stoves	4
	Total People Impacted	23
Economic	Working Time Saved	292 hours
	Working Days Equivalent	67 days
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	4
	Asthma	3
	Ear, Nose and Throat Irritation	1
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	8

sales.uk@iko.com

t: 01257 255 771

www.ikogroup.co.uk



BITUMINOUS MEMBRANES | COLD APPLIED LIQUIDS | HOT MELT | **MASTIC ASPHALT** | SINGLE-PLY
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Location History

Outstanding sea views, neighbouring 27-acre coastal park and the long stretches of beach combine to create a unique and attractive location for the development. It is situated on the door step of other exciting initiatives in the town including the Creative Quarter, the renowned Folkestone Triennial public art exhibition, Folkestone Artworks, the public interactive fountain and Mark Sargeant's Rocksalt restaurant.

This seafront quarter will be a place to live, work, visit and play. The restored harbour and renovated station will sit at the heart of the development which will offer a selection of shops, cafés, bars and restaurants, public spaces, sports and recreation amenities, and has the scope for up to 1000 homes.

The re-development of Folkestone Seafront is a rare and unique opportunity. Extensive time and resources continue to be invested in the project. The scale of the development and our aim to create a high-quality environment means that every detail from the infrastructure to the sea views, from the visitor experience to estate management needs to be carefully considered.

Folkestone has a great chance to benefit from the opportunities on offer, with the high speed link to and from London and its excellent connections to Europe, the town is at an exciting transitional stage of development. Folkestone has attracted a great deal of national and international attention and other notable developments are either planned or under way in the town.

The harbour and surrounding area has many links to the rich maritime history of Folkestone and these links will be partly preserved and extensively explored in the new development. The viaduct and the swing bridge, which are Grade II listed, will form part of the new public access from the northern side of the harbour to the refurbished Harbour Arm and the future development.



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.

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