

# Blackpool sea defences

## Product

evoBuild low carbon GGBS and ColourCrete

## Volume

23,000 cubic metres of precast units

## Client

Blackpool Borough Council

## Overview

Blackpool Borough Council spent £62 million on a four-year project, completed in 2009, to improve the promenade and sea defences.

## Project description

This included 23,000m<sup>3</sup> of precast concrete units containing 50 per cent evoBuild low carbon GGBS and ColourCrete for sea defence on Blackpool beach.

As well as the environmental and durability benefits of using evoBuild low carbon GGBS, the council wanted the concrete units to be buff in colour to match the sand and the lighter colour of evoBuild low carbon GGBS enhanced the pigment colour.

## More about evoBuild low carbon GGBS

evoBuild low carbon GGBS is Ground Granulated Blastfurnace Slag, commonly known as 'GGBS'.

It is a cement substitute, manufactured from a by-product of the iron-making industry.

Using one tonne of evoBuild low carbon GGBS in concrete reduces the embodied CO<sub>2</sub> by around 650kg, compared to using one tonne of Portland Cement. It also increases the concrete's durability and is more sustainable than other cement substitutes such as fly ash.

In the UK, GGBS is usually supplied as a separate component for concrete and is added at the concrete mixer.

It can replace 70 per cent or more of the Portland cement. In British Standards, GGBS is referred to as an 'addition' and counts fully towards the cement content in concrete.

evoBuild low carbon GGBS conforms to BS EN 15167-1 'Ground Granulated Blastfurnace Slag for use in concrete, mortar and grout' and is available throughout the UK, accompanied by a full technical and logistical support package.

