

# Environment Agency

## Foulton Hall, Harwich



### The Challenge

This coastal project in Essex showcases the commercial use of Cemfree in a UK tidal sea defence application. It was a detailed scheme that required bespoke formwork to prevent the washout of material as well as the input of the Cemfree team to ensure the pours went to plan. The Environment Agency exists to protect and improve the environment, and while development is not always desired, it's often essential, and the Agency strives to carry it out in the most sustainable way possible. Environmental Manager, Steve Livingstone, spearheaded the choice for Cemfree for this sea defence system based on its significant carbon saving potential.



A Carbon Saving of  
**88%**  
on this Project

### The Cemfree Solution

Suffolk based contractor Jackson Civil Engineering Limited (JCE), having previously used Cemfree concrete on a similar tidal defence project in Woodbridge, Suffolk under the guidance of supervising site agent Ashley Tate, identified its next Cemfree opportunity – this time in the shape of the Foulton Hall tidal defence work. JCE embraces innovation and has a strong sustainability agenda, making Cemfree an ideal material to explore. Its staggering potential for reducing CO<sub>2</sub> by up to 90% compared to traditional concrete makes it an exciting, hard to resist prospect.

### The Practicalities

In this project, Cemfree was used as mass fill between sheet piling. It was easily pumped into place with no noticeable difference to a traditional OPC-based concrete mix. With the works being partially submerged at high tide it was crucial for JCE & Cemfree along with Camfaud Pumps and SRC Aggregates to be ready to begin pouring the moment the tide had receded and for the pour to be completed and the top shutters to be secured by the time it came back in again.

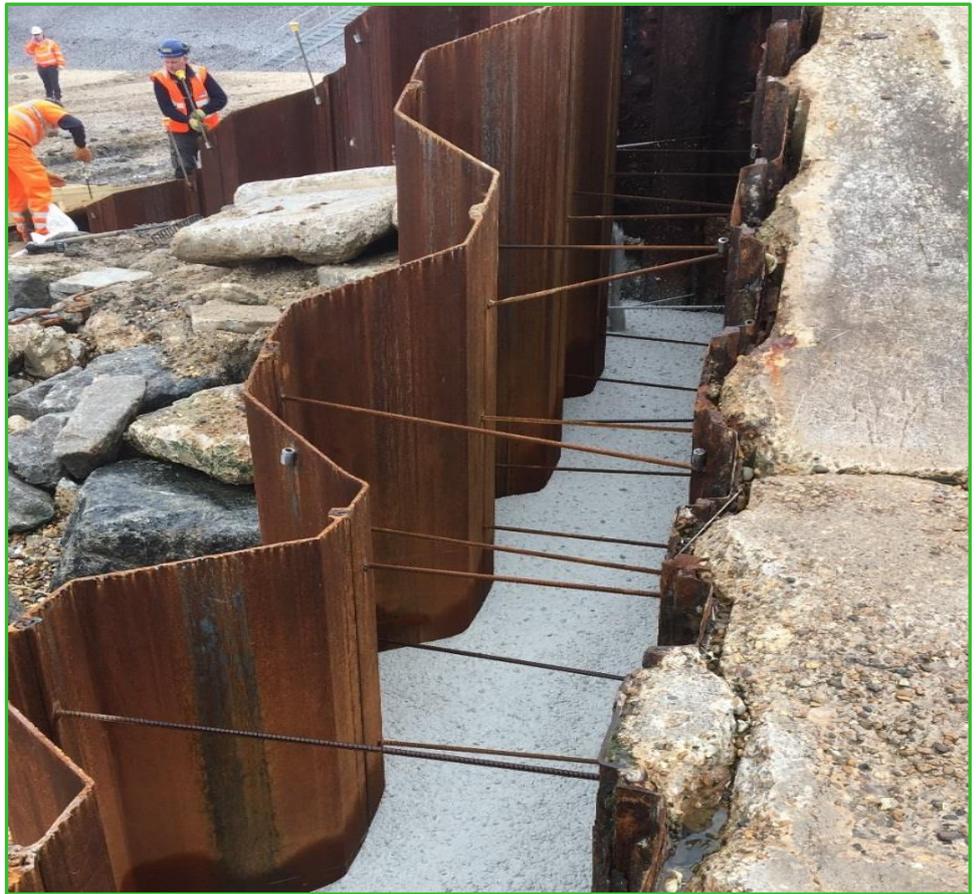


Cemfree is a division of David Ball Group Ltd

[sales@cemfree.com](mailto:sales@cemfree.com)  
[www.cemfree.com](http://www.cemfree.com)  
01954 780687

## The Result

Foulton Hall's impressive CO<sub>2</sub> saving of over 88% through using Cemfree instead of a CEM I mix equates to 10.5 tonnes of CO<sub>2</sub> – the same amount that would be released into the atmosphere if more than 5 tonnes of coal were to be burned. This just goes to show the massive carbon savings that can be achieved with only very minor changes to programme and design. Fresh from Cemfree success number two, JCE is now looking for the next big carbon saving opportunity to add to its growing sustainability portfolio.



 Cemfree™

Cemfree is a division of David Ball Group Ltd

[sales@cemfree.com](mailto:sales@cemfree.com)  
[www.cemfree.com](http://www.cemfree.com)  
01954 780687