

Mapledurham Bridge



Overview

A replacement of a bridge over a canal in Mapledurham, Berkshire.

Details

Location	Mapledurham, Berkshire.
Description	Replacement of a bridge over a canal.
Client	Environment Agency.
Date of project	2016.
Where FRP composites are used and why	<p>The use of fibre-reinforced polymer composites (FRP) and off-site manufacture meant that the composite bridge deck could be constructed and delivered in a very short period of time. Access to the site was restricted so the bridge was floated to site on a barge down the canal.</p> <p>With no physical joints, and no exterior paint finish required, the bridge decks are maintenance free and are expected to have a service life in excess of 100 years.</p>
Specific design details	The bridge deck is moulded in a single piece, 13m span, with an integrated bonded anti-slip wearing surface. Designed to take 60t loading the FRP deck is around 1/3 the weight of steel or concrete equivalents offering savings on civils and installation costs.
Type of composite used	Infracore GRP profile.
Project partners	ECS Engineering Services Ltd.
Further information	Press release and video: http://www.dmaeurope.com/Clients/ECSEngineeringServices/News/tabid/3545/itemid/4307/Default.aspx

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