



Halgavor Bridge

by WilkinsonEyre

The Halgavor Bridge carries pedestrians, cyclists and horses across the A30 near Bodmin in Cornwall. It has a striking 48m suspension span and an innovative glass fibre reinforced plastic deck. This is the first publicly funded GRP (glass reinforced plastic) bridge in the UK and its pioneering design set the standard for a new generation of bridges in advanced composite materials. The need for easy maintenance and rapid construction to minimise disruption to road traffic led directly to the selection of lightweight self-finished GRP materials which are durable and require little or no maintenance.

The deck is hung from conventional steel suspension cables, with a radial pattern of stainless steel hangers and parapet posts. These, together with a transparent mesh system in the parapet, give the bridge a light, elegant appearance. The finished deck surface is made from recycled car tyres, which create a surface suitable for all bridge users and also require little maintenance.



Details

Location: Bodmin, UK
Client: Highways Agency
Architect: WilkinsonEyre
Structural Engineer: Flint and Neill
Span: 48m
Value: £600k
Completed: July 2001