

# River Leri Footbridge



## Details

<b>Description</b>	Footbridge over river, alongside railway line.
<b>Client</b>	Network Rail
<b>Date of project</b>	2009
<b>Where FRP composites are used and why</b>	<p>FRP was chosen for 2 reasons: the coastal nature of the site prohibited the use of some traditional materials due to corrosion; to minimise the increase in loading on the timber substructure of the existing bridge.</p> <p>The prefabricated FRP units, which facilitated construction and allows easy access to the rail bridge for maintenance purposes.</p>
<b>Type of composite used</b>	11 pultruded FRP structural shapes, gridded plate and interlocking decking system were used in the 80m pedestrian footbridge alongside an existing railway line over the River Leri in Wales. The design also used bonded connections instead of bolts in a Parsons Brinckerhoff-developed configuration, also diminishing maintenance requirements.
<b>Design details</b>	The footbridge was assembled and load tested at Pipex fabrication facility in Plymouth over an 18 week period. The largest unit was 12m long and weighed 2800kg facilitating installation by roadtrailer from the railway track alongside.
<b>Project partners</b>	Parsons Brinckerhoff, Strongwell, Pipex, Carillion
<b>Key publications</b>	<u>Minimum maintenance</u> , in "Bridge Update", June 2009, n. 84

## Contact