



FRP— Fibre Reinforced Polymer Composite Bridges

Key Benefits

The greatest benefit for using FRP material is for bridges in remote or environmentally sensitive areas where use of normal lifting plant is not possible. They are also extremely useful in situations where the environment is hostile, access for maintenance is restricted and thus expensive or it is considered that in reality no maintenance will be undertaken.

Durability

FRP material is resistant to UV rays, which has no affect on the resin within the profile unlike the extruded plastics produced from recycled material. The material is also resistant to salt water and a diverse range of chemicals.

Our FRP composite bridges have a 120 year design life as have the steel and timber bridges we design.

We construct the bridges using stainless steel bolts and fixings to complement the extremely long service life of the FRP material. Fibre Reinforced Polymer bridges are robust and will resist casual attempts at vandalism better than softwood and on a par with hardwood. Superficial damage will have no affect on service life as it would with steel or softwood as the material does not rely on any applied protective systems for its extended service life.

The FRP/GRP material we use has a phenolic coating and conforms to class B of European standard EN 13501 for fire resistance.

More information on the profiles and examples of structures www.Fiberline.com

Quick Guide to Key Benefits

Lightweight—Can be placed in remote areas with poor access by manual handling or helicopter

Easy to assemble and quick to install—Saves time on site

Extremely durable—Has long maintenance free service life in excess of 30 years

Minimal maintenance—Whole life maintenance costs minimised.

Images (top to bottom)

5.8m x 1.25m FRP bridge at Swanage, Poole, Dorset —Client Avon Construction Ltd—Ref 4548

7m x 1m FRP Bridge at Chiswick Hall, Essex—Client Ringway Jacobs/Essex CC—Job 4457

12.5m x 2m FRP Footbridge at Earlsburn Reservoir, Scotland - Client George Leslie—Ref 3830

8m x 1.2m FRP bridge at Blinkbonny, Scotland—Client Murdoch MacKenzie—Ref 3858

For further details please contact CTS Bridges
Tel: 01484 606416
email: enquiries@ctsbridges.co.uk
web: www.ctsbridges.co.uk