



FRP GRATING AIDS IN REFURBISHMENT OF VICTORIAN-ERA SWING BRIDGE

The Selby Swing Railway Bridge has been in operation for well over 100 years, connecting a railway line from Leeds to Hull in the United Kingdom, over the Ouse River. The swing span of this bridge extends 130 feet, where the span is supported by 24 cast steel rollers. The pivot point is also engineered with two unequal arms to support a 92-ton balance weight as the bridge swings over the canal to allow boats to pass.

This railway bridge is unique, as it was built during the Victorian era, and was well in need of a refurbishment for steelwork, hydraulics, beams, and paint. With a budget of over \$10 MM dollars, the owner and operator of this bridge had to consider factors such as weight, historical preservation, durability, electrical conductivity, and corrosion resistance in all of its materials.

Pipex px[®] supplied and fabricated almost 426 square meters (4,600 sq. ft.) of DURAGRID[®] T-3300 and I-6000 pultruded grating with medium epoxy grit. To support the fiberglass grating, EXTREN[®] wide flange beams were used.

Within the access structures, Pipex px[®] utilized DURAGRID[®] T-5000 PE for stairwell landings and DURAGRID[®] I-6000 1.5" thick stair treads in lengths from 2' to 4'.

It is expected that these FRP components will provide over 60 years of maintenance-free service to the Victorian-era bridge as it approaches its next centennial birthday. ●

TECHNICAL DATA

Product:	Swing Bridge Surface Grating
Process:	Pultrusion
Materials & Sizes:	EXTREN [®] Structural Shapes: - wide flange beams DURAGRID [®] pultruded grating: - T-3300 with medium grit epoxy - I-6000 with medium grit epoxy - T-5000 polyester - I-6000 1-1/2" stair treads
For:	Pipex px [®]
User:	Network Rail Selby, North Yorkshire, UK



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