



Bridges – Westminster Bridge, London



Project details:

The object of the refurbishment was to raise the strength of all bridge components, found to be sub-standard by the assessment, so that they could support 40 ton vehicles. Also address the cause of damage to the bridge, typically corrosion of metal work. The strengthening works was to be undertaken with the minimum disruption to vehicular, pedestrian and river traffic. The works had to be sensitive to the heritage value of the Grade II * listed structure.

It was decided to replace the existing timber and concrete decking with a structural reinforced deck. A 40N/mm² concrete utilising a sintered pulverised fuel ash, Lytag® lightweight aggregate, with a target insitu density of 1950kg/m³, was selected to provide the required strength with a negligible change in dead loading.

Further information on the history of the bridge and the strengthening project can be found on the London Bridges Engineering Group website <http://www.lobeg.com>.

Project:

Westminster Bridge – London

Date:

1996

Client:

City of Westminster Council

Structural Engineer:

Highpoint Rendell

