



SIKA AT WORK

WILSON'S BRIDGE STRENGTHENING, AUCKLAND, NZ.

STRENGTHENING: Sika Carbodur®
CONCRETE PROTECTION: Sikagard®-550

BUILDING TRUST



WILSON'S BRIDGE STRENGTHENING, AUCKLAND, NZ



PROJECT DESCRIPTION

HEB Structures Ltd were contracted by the Franklin District Council to widen a section of the road between Auckland's Southern Motorway and the Glenbrook steel mill, in Franklin District. The contract included for the widening of Wilson's Bridge which crosses the Whangamarie Stream.

PROJECT REQUIREMENT

HEB undertook the concrete works to increase the width of the existing bridge and let a subcontract to BBR Contech (Construction Techniques Ltd) to strengthen the deck and abutments of the existing bridge by application of Carbon Fibre FRP.

SIKA SOLUTION

The design prepared by OPUS International Consultants Ltd required Sika CarboDur® be installed, at close centres over the soffit of the deck and the faces of both abutment walls. The work was carried out from scaffolding erected beneath the bridge and above the stream.

Great care was required to be taken to ensure that concrete fragments and dust generated during the surface preparation did not enter the stream. Following FRP application two coats of Sikagard® 550 were applied to prevent UV degradation.

SIKA PRODUCTS

- Sika CarboDur
- Sikagard-550

PROJECT PARTICIPANTS

Client: HEB Structures Limited.

Consultant: OPUS Consultants Limited.

Specialist Contractor: BBR Contech (Construction Techniques Ltd).

Sika Organisation: Sika (NZ) Ltd

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