

Project Brief

## Victoria Park Viaduct

### Bridge Deck Strengthening



Auckland  
2009



The Victoria Park Viaduct was completed in 1962, It forms a key part of SH1 Northern Motorway and has issues such as Concrete Cancer (Alkali Aggregate Reaction) and does not match current earthquake standards, It handles its present 100,000 vehicles per day but required strengthening for increased traffic volumes and truck load limits.

The Tyfo SCH 41® Composite Fibrwrap System was selected to strengthen the bridge deck.

The strengthening requirements were met cost effectively without adding additional dead weight to the structure.

Over 5000m<sup>2</sup> were installed with teams working nights (to ensure minimal disruption to traffic on roads below the Viaduct).

This is easily the largest FRP project within New Zealand to date for clients; The Auckland Motorway Alliance (New Zealand Transport Authority, Fulton Hogan, Beca & Opus).

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LIMITED