

Alfords Point Bridge (Australia)



Project description

The original Alfords Point Bridge across the Georges River south of Sydney was opened in 1973, with piles and abutments already constructed for a second bridge to be built alongside it in the future. Three decades later, the second structure was constructed, and it was opened to traffic in 2008. The original structure carries northbound road traffic over the river while the new one carries southbound motorists.

The second bridge is 445m long and 15.3m wide. It was constructed by the incremental launching method (ILM) at a cost of US\$36.7 million, taking 850 people and 240,000 hours to build.

mageba scope

To support the construction of the bridge, mageba supplied 40 LASTO®BLOCK elastomeric bearings with steel connection plates, four for each of the bridge's ten piers. These bearings were equipped with removable tapered sliding plates on top to suit the incremental launching method (ILM) by which the bridge was to be constructed.

Following launching of the bridge deck into position, the bearings were replaced by permanent guided sliding elastomeric bearings of type VGe, designed to accommodate longitudinal sliding movements of up to +/- 125 mm.

Highlights & facts

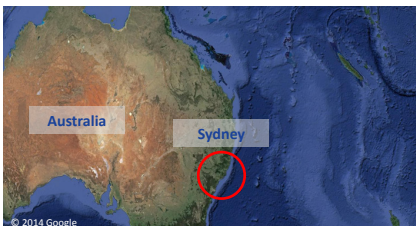
mageba products:

Type: LASTO®BLOCK bearings with connection plates (type VGe bearings), incremental launch method (ILM) bearings
Installation: 2007

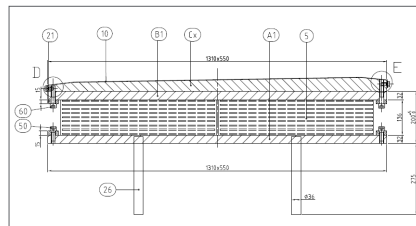
Structure:

City: Alfords Point
Country: Australia
Completed: 2008
Type: Road Bridge
Length: 445 m
Contractor: Abigroup

The bridge is located in Alfords Point, near Sydney, Australia.



Cross section of an ILM bearing showing upper tapered plate (removed after bridge launch).



An elastomeric bearing of type VGe, packed on a pallet for shipping to site.

