

Project Information

Project: Dashwood Overbridge
Realignment safety improvements

Year: 2014

Product Supplied:

MP200: 7.742m Span x 5.828m Rise
x 5mm Steel x 54m Long

Project Team:

Client: Kiwi Rail

Armco Representative:

Justin Naidoo

Ingal Civil Products (NZ
Representative)



Project Challenge

The project was located in Seddon, a small town in Marlborough, New Zealand. An existing rail tunnel built in 1932 had to be replaced to realign an existing road. The new rail tunnel needed to be built without interfering with the train schedule. The client also required a cost effective solution while meeting the criteria of a sharp angle between the road overpass and rail underpass as well as been earthquake resilient.

Armco Solution

Working closely with the client, Armco designed the multiplate Horseshoe Arch structure to meet Kiwi Rails Standard. Based on the structural requirements, a 5mm steel thickness was selected. The cut-off bevel slope on the Armco was designed to suite the embankment slope.

For more information on Armco Corrugated Steel Structures please contact our Construction Products Business Unit on +27 11 974 8511 or visit our website: www.armco.co.za



Conclusion

The benefits of using the MP200 structure for this project was as follows:

- *Ease of logistics* – The entire order was loaded into 3 x 20ft containers and sea freighted.
- *Ease of installation* – The structure were supplied in multiple plate marked sections together with an installation drawing and installation guide for ease of identification and installation.
- *Quick installation time* – Installation was completed one week earlier than planned considering the weather challenges faced during the project.