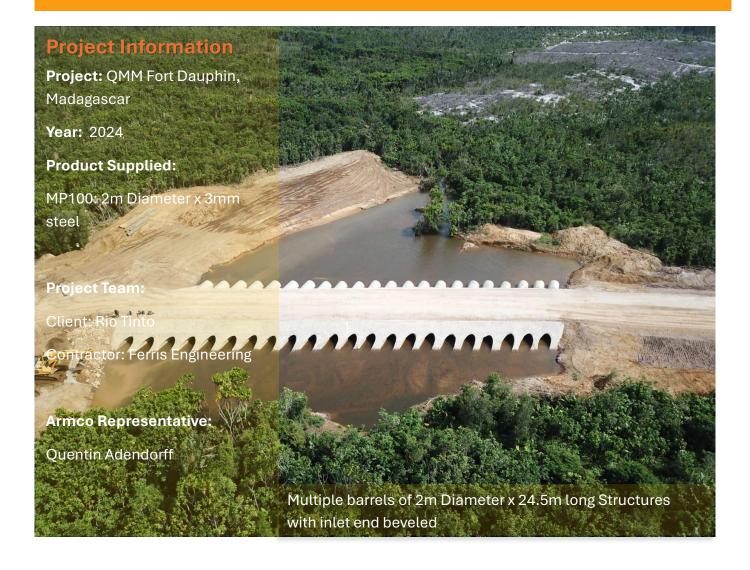


## SPECIALIST IN MODERN CONSTRUCTION



## **Project Challenge**

The project was located Fort Dauphin, Southeast coast of Madagascar. A crossing to accommodate multiple vehicles on the overpass were required. The client required multiple barrels of structure to meet the flow requirement of the stream and cover a stream spanning approximately 50m which needed to be installed within the shortest period possible.

## **Armco Solution**

Armco recommended using our 2m diameter culvert to meet the design criteria of minimum fill height and live load of vehicles crossing the structure. To meet the flow requirement, a total of 22 barrels had to me installed. A bevelled inlet was done to increase the opening area for the flow intake. The outlet of the Armco protruded about 2m away from the fill. Both the bevel end and the protruding

For more information on Armco Corrugated Steel Structures please contact our Construction Products Business Unit on +27 11 974 8511 or visit our website: <u>www.armco.co.za</u> outlet also kept the flowing water a safe distance away from the road to avoid flooding of the road during heavy rainfall.



## Conclusion

The benefits of using the MP100 structure for this project was as follows:

- Ease of logistics The entire order was loaded into 5 x 20ft containers and sea freighted.
- Ease of installation The structure were supplied in two halves for ease of identification and installation using M16 x 32mm bolts and nuts supplied.
- Quick installation time Structures timeline equated to between 35 40% quicker than the alternative option.

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