

Project Information

Project: Simandou Iron Ore Mine

Year: 2025

Product Supplied:

MP200: 3.07m Diameter x 5mm
Steel

Project Team:

Client: Rio Tinto

Contractor: China Overseas
Engineering Group

Armco Representative:

Justin Naidoo

Lungile Vanqa

Vuyokazi Ndungane

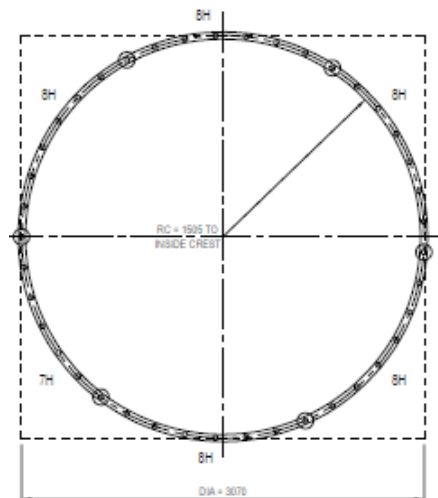
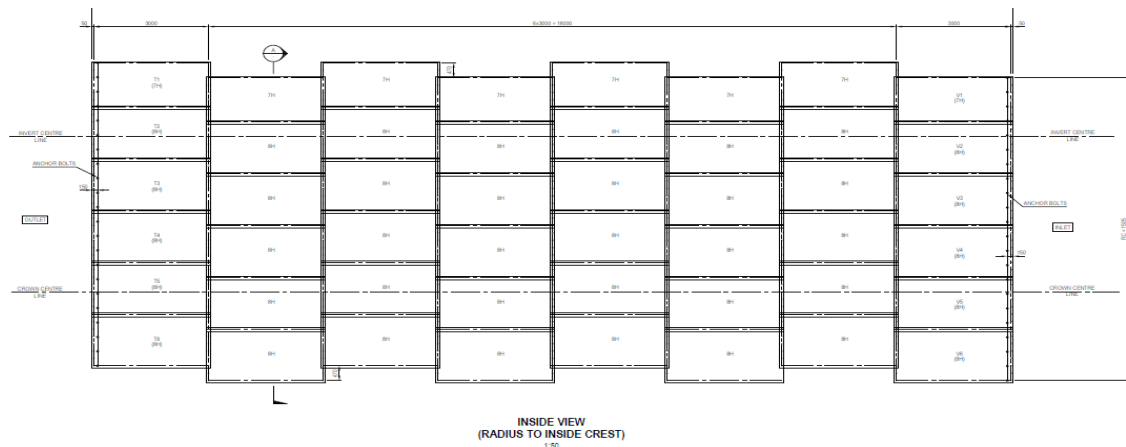
Project Challenge

The project was located within the Nzérékoré region which is in the South Eastern part of Guinea. Concrete portals were initially designed for multiple haul road crossings on the mine but due to the volume of concrete required, the logistics in getting the aggregate to the remote area of the mine, and the time constraints to complete the project, the client looked at Armco structures as an alternative solution to these issues.

Armco Solution

Based on the design information provided by the client, Armco recommended using our standard 3.07m diameter x 5mm multiplate structure. Armco fabricated each structure based on the required length at each location. The structure was supplied in multiple plate sections which reduced the burden of logistics from Conakry to the mine. Holes were predrilled at the inlet and outlet circumference and M20 anchor bolts supplied to anchor the structure to the headwall.

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



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Conclusion

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

- *Ease of logistics* – The entire order was loaded into 120 x 20ft containers and sea freighted over a period of eight months.
- *Ease of installation* – The structures were supplied in multiple plate marked sections and colour coded for ease of identification. Installation drawings for each location and an installation guide was provided to assist the client swiftly install the structures.
- *Quick installation time* – Multiple barrels could be installed simultaneously which increased productivity and reducing the timeline for the installation.

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