

CASE STUDY

Utilities & Power

Project Specs

Location: Montreal, Québec, Canada

Application: Non-Conductive Platforms and Protective Barriers

Product: Fibergrate® Molded Grating, Dynarail® Guardrail, Fibertred® Molded Treads, and Dynaform® Structural Shapes

Overview

Rio Tinto Alcan, a division of Rio Tinto, is the global leader in the aluminium business. They are one of the world's largest producers of bauxite, alumina and aluminium.

Problem

Rio Tinto Alcan was in need of non-conductive platforms and protective barriers for their sub-stations. The client was looking for the project to be completed quickly. Three areas required non-conductive platforms and protective barriers, including the bus bar room and roof, transformer bay, and harmonic filter. Due to the areas being in close proximity to the transformers, it was crucial that the solutions be nonconductive, therefore, increasing the protection of workers.

Solution

Fibergrate was able to offer solutions to meet the customer's needs. We designed, manufactured and managed the installation, ensuring the project was completed correctly and within the strict timeline.

Fibergrate provided the following as solutions for each area:

- **Area #1 - Bus bar room:** non-conductive platforms, ladders, staircases, and handrail were installed.
- **Area #2 - Transformer bay:** 20' x 15' FRP roof was installed to protect the Bus Bar Room and transformer from snow and rain.
- **Area #3 - Harmonic filter:** 120' x 9' Non-conductive protective fence was installed around the harmonic filter.

The initial steps of assembly were completed at the Fibergrate Design Centre to allow for a more efficient installation. We pre-assembled and tested the fence panels and doors to verify that the design met the client's needs. Ultimately, the client was very happy with the solutions and service that Fibergrate provided.



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