

CASE STUDY

Chemical



Building the World to Last®

Project Specs

Location: Canada

Application: Service Platform

Product: Fibergrate® Molded Grating, Pultruded Grating, and Dynarail® Handrail and Ladder System

Overview

A Canadian Chemical Company had a maintenance issue with steel structures and gratings used to maintain and access their process equipment. Every year the Chemical plant infrastructure would undergo an annual maintenance audit to evaluate the structures from a structural and safety perspective.



Problem

Due to the corrosive process chemicals present, issues arose frequently. Sometimes the entire structure would require regular replacement. The repair and design criteria would target a 20 year life expectancy for the replacement materials.



Solution

Fibergrate was able to work with the company's engineering department to recognize trouble areas, especially those exposed to constant chemical and environmental attack and recommended solutions that were accepted by the customer. In some cases, FRP molded, moltruded and pultruded gratings were installed on the existing steel structures that were epoxy coated prior to grating installation. In other areas, existing galvanize or painted steel structures were replaced completely with FRP handrails, ladders, staircases and structures.

Fibergrate was able to offer:

- Superior life cycle cost.
- Slip resistance surface of the grating or treads regardless of weather conditions.
- Superior chemical resistance than steel. No future maintenance required.
- Ease of installation due to light weight physical properties.

Phone: 800-527-4043 | Fax: 972-250-1530 | www.fibergrate.com

Fibergrate Composite Structures Inc. believes the information contained here to be true and accurate. Fibergrate makes no warranty, expressed or implied based on this literature and assumes no responsibility for the consequential or incidental damages in the use of these products and systems described, including any warranty of merchantability or fitness.

Information contained here can be for evaluation only. The marks and trade names appearing herein, whether registered or unregistered, are the property of Fibergrate Composite Structures Inc. ©Fibergrate Inc. 2021