

CASE STUDY

Transportation

Project Specs

Location: Montréal, Québec, Canada

Application: High Load Capacity (HLC) Pultruded Grating for Trenches

Product: HLC Pultruded Grating

Overview

ExcelTech Aerospace is a maintenance, repair and overhaul company that is ranked among the world's most productive aircraft maintenance organizations. They opened a new state-of-the-art facility in Montréal in the summer of 2008 to include 140,000 sq. ft. for two brand new hangars. In these hangars, there are trenches that the planes roll over. The trenches serve a couple of purposes:

- As service pits for equipment (i.e. Electrical, mechanical and pneumatic systems used to work on the planes).
- To contain the sprinkler system, which is installed in the trench.

Problem

Traditionally, the grating used to cover the trenches were made out of cast iron or steel. These grates were extremely heavy and made it difficult to access mechanical systems in the trench. In order to move the grating, a forklift is required.

Solution

HLC pultruded grating was provided as the solution to cover the trenches. This gave the client a light-weight solution which allows workers to lift gratings by hand. The HLC pultruded grating can resist all the corrosive liquids that may come into contact with it (including salt, water, brake fluid and sprinkler foam). The grating was designed to support the heavy loads (up to 100,000 pounds) such as the planes that would roll over the trench. The client is extremely satisfied with the solution Fibergrate provided.

