

Lewis Farms Fire Station



Location : Edmonton, Alberta, Canada

Date: 2015

Architects : Arch TB and Johnston Davidson
Architecture & Planning Inc

Solution and technologies: Cladding

Introduction

Unique Ductal® Cladding provides high durability and aesthetics for an urban fire station frequently exposed to harsh climatic conditions

Description

The office building of the new Lewis Farms Fire Station in Edmonton, Canada is clad with a unique Ductal® panel solution, chosen for its high durability and superior resistance to extreme freeze-thaw conditions.

Challenge

Edmonton is a large metropolitan city that is frequently exposed to harsh, freezing temperatures during the winter and hot temperatures during the summer. Almost all building façades in this area require high performance properties in order to meet the post disaster requirements of the Alberta Building Code.

Optimization

Ductal®'s density and extremely low porosity properties attribute to the material's low permeability characteristics. Water molecules cannot penetrate its matrix, resulting in very high compressive strengths and a superior durable cladding solution that is able to resist impact better than most façade materials.

Aesthetic

Located in an estate neighbourhood, the project had an art component which allowed custom design of the facade's textured panels. (The Edmonton Arts Council conducted a "public art competition" in accordance with the City of Edmonton's policy, "Percent for Art", which designates one percent of the budget "to provide and encourage art in public areas").

