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Project Profile

Maplewood
Fire and Rescue
Centre

DISTRICT OF NORTH VANCOUVER, BC



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Project Profile

Maplewood Fire and Rescue Centre

DISTRICT OF NORTH VANCOUVER, BC

The Project

This newly designed facility has state-of-the-art construction using cross-laminated timber so first responders can maintain services in emergencies, such as earthquakes or power outages. The building is located near the Wild Bird Trust conservation area, and its administrators are mindful of adjacent wetlands and important ecological areas. It replaces aging fire halls and consolidates the district's administrative, training, and operations functions that support Maplewood, Dollarton and indigenous communities.

The Challenge

The 48,000-square-foot building has indoor training facilities, apparatus bays, a large outdoor training area, and four double-bay fire halls. The land has been remediated from a former contaminated landfill and transformed into a community resource of wetlands, wildlife corridors and the neighbouring Wild Bird Trust conservation area, making the Maplewood community an important ecological area. Chandos Construction, an award-winning builder, was selected as the general contractor. Chandos is one of North America's most innovative national technical builders with a B Corp certification. The architect of record, S2 Architecture, is known for its holistic approach to harmonious design integration.

The Solution

To meet stringent performance requirements, an IKO commercial roofing, high-performance composite, reinforced Class A fire-rated system was selected. The roof deck was a sustainable, alternative, cross-laminated timber, and the insulation was mechanically attached for the first layer. Increased fasteners were added to meet the stringent wind uplift requirements. Products specified were MVP™ Sand, Torchflex™ TF-95-SF, IKOTerm™ III, Protectobase™ 180, Armourbond™ Flash, PrevENT™ ArmourCool™ Granular TP-HD-Cap and Millennium™ Adhesive.

IKO ROOFING SYSTEM

- MVP Sand
- Torchflex TF-95-SF
- IKOTerm III
- Protectobase 180
- Armourbond Flash
- PrevENT ArmourCool Granular TP-HD-Cap
- Millennium Adhesive

COMMERCIAL WARRANTY ISSUED

IKO 10-year Diamond Shield Limited Warranty





BUILDING OWNER

District of North Vancouver

PROJECT SIZE

1,843 m²/6,047 ft²

PROJECT START AND COMPLETION DATES

May 2023 – June 2023

PROJECT SECTOR

Government

GENERAL CONTRACTOR

Chandos

ARCHITECT

S2 Architecture

ROOFING CONTRACTOR

United Roofing

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