



Commercial Window Case Study

VEKA Inc. is the North American division of VEKA AG one of the world's largest extruder of vinyl lineals for the residential and commercial window and door industry. In addition we extrude fence, deck and handrail extrusions for fabricators and builders in the outdoor living products sector. VEKA employs more than 3,000 skilled personnel serving customers globally from 25 plants worldwide, with over 40 years of leadership in helping fabricators deploy technologically advanced materials for residential and commercial building applications.

VEKA EUROVIEW 70 DS SYSTEM:

The system that was chosen for use in the Holy Trinity Elementary School was the VEKA Euroview 70DS. The system has a 70mm (2-3/4") frame depth. It's thermal properties are achieved by a 5-chamber air-pocket system in all frame and sashes. Frame and sash profiles are all steel reinforced, to provide the structural strength, and decrease the thermal expansion factors, inherent in PVC system

Slightly rounded edges give the classical design to the Euroview System.

High Thermal Insulation Values up to $U_w=1,0$ W/m²K (U-Value 0.176 BTU/H*ft²*F, R-Value 5.7) are achievable (depending on glazing) and reduce heating costs noticeably.

High-quality gaskets are standard in an attractive grey and comprise a system of dual compression seals that keeps the cold, draft and moisture outside.

Galvanized Steel Reinforcing used according to VEKA fabrication requirements, supports the structural integrity and operational reliability.

Five Chamber Profile with a basic overall depth of 70 mm (2-3/4"): is an ideal use of dead air's natural insulating characteristics.

Save Energy and Reduce Costs
Because of multi-chamber technology, VEKA profiles have an enormously low heat transmission value. This reduces your energy use as well as heating and cooling costs.



Option:
Recessed sash

Feel Comfortable

The excellent insulation performance of VEKA profiles and reliable weather seals guarantee a difference in overall room temperature providing comfort throughout the conditioned space.

Optimal Noise Insulation

Noise exposure affects comfort and can impact your health. Even the basic window produced with VEKA Profiles protects against sound transmission. Windows with VEKA profiles can be fabricated to the highest possible level of sound transmission control.



Holy Trinity Elementary School North Vancouver, B.C., Canada

Holy Trinity Elementary was designed with both beauty and functionality in mind. When selecting windows for this project, the option to have windows tilt for ventilation, swing open inward for egress and ease of cleaning met the requirements of safety and versatility.



Case Study





Contemporary aluminum look painted PVC frame and sash provides significantly improved thermal performance.

PROJECT DETAILS

Project Name:	Holy Trinity Elementary School
Location:	North Vancouver, BC
Manufacturer:	Westeck Windows Mfg. Inc.
Architect/Designer:	CJP Architecture Ltd
Builder/Contractor:	Titan Construction
Construction Type:	New Construction
Completed:	April 2011

TECHNICAL SPECIFICATIONS

Window System:	VEKA Euroview 70DS
Products:	Tilt/Turn Windows
Finishing:	Painted Anodized Aluminum Exterior
Glazing:	Cardinal 1" IG, 272 LowE Argon
Hardware:	Roto Multi-Point Hardware
Number of Units:	27 Windows

Unique Requirements/Solutions

- Color, faux anodized silver waterborne paint system over PVC frame. Provides contemporary "aluminum" look, while providing significantly improved thermal performance.
- Laminated safety glass used in impact prone areas such as gymnasium etc.
- Installed matching silver spandrel glazing to "cover" ends of interior office walls, allowing window system to span rooms.
- All hardware provided with security key lockout feature, providing safety, security and ventilation to occupants. While allowing for maintenance personnel to unlock and swing operators into building for ease of cleaning.
- Cut in mail slot to center of sealed unit in office area. Unique and functional, solved problem as no other convenient space to install mail slot.

Since the turn of the century, Westeck Windows & Doors has been the supplier for multi-family, industrial, residential and institutional projects including retirement complexes, churches, schools and custom homes throughout British Columbia and the United States. Westeck currently has five showrooms in BC with expansions expected in the coming year to the western United States. Westeck project consultants service western Canada and the US, offering a wide variety of windows and doors which include; vinyl, aluminum, wood, metal clad, European style Tilt/Turn windows & doors, combos (vinyl exterior/wood interior) as well as steel and fiberglass doors.

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In practice since 1954, CJP Architects is a multi-disciplinary New Westminister based company comprised of 25 personable and experienced architects, interior designers, technologists and support staff. The staff is collectively committed to achieving excellence in client service and building product. The CJP record of success is founded on a people-based approach which seeks to resolve planning, design and construction issues through cooperative team-based management provided by their two Directors.

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Titan Construction is one of the Lower Mainland's leading General Contractor, Design-Build and Construction Managers. Titan strives to establish partnerships with clients, subcontractors, suppliers and the community, allowing for consistent, cost effective, complete and innovative solutions. Titan is known in the industry for being extremely competitive, dedicated to on time project completion, under budget and to a high standard of quality. Furthermore, Titan Construction is committed to minimizing the environmental footprint by the implementation of current green building technologies under the guidance of LEED® professional credentials.

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