



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 58 DS SYSTEM:

The system that was chosen for use in McNair elementary School was the VEKA Euroview 58DS. The system has a 58mm (2-1/4") frame depth. Its thermal properties are achieved by a 3-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 systems.

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

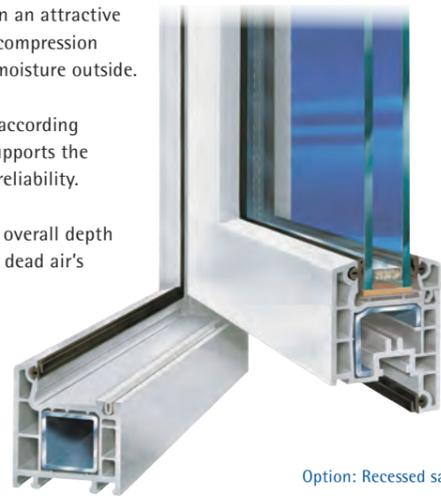
High Thermal Insulation Values up to $U_w=1,0$ W/m²K (U-Value 0.176 BTU/H*ft²*F, R-Value 5.7) are achievable (depending on glazing) and reduce heating costs noticeably.

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.

Three Chamber Profile with a basic overall depth of 58 mm (2-1/4"): 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.



McNair Elementary School

The new construction involves two, new three-story classroom buildings, one story administration area, science labs, media center, and cafeteria theater area, that are located to the rear of the property. Due to severe slope of the land the three-story structures are virtually invisible from the front of the school at Second Avenue. The exterior of the school is a combination of dry stacked stone and cement board siding. The original building has a membrane roof while the three-story classroom buildings have an attractive asphalt shingle roof. The combination of siding, stacked stone, and asphalt shingles allow for this facility to blend in very nicely with the neighborhood homes. The exterior of the building is further enhanced by the use of storefront and punched window openings. The new school is designed on a residential scale which blends into the neighborhoods.

The Design/Build project scope involved the demolition of the existing school. The entire facility is new construction.



Case Study





VEKA's Euroview window and door systems are the smart choice, classic design and an economical solution.



VEKA's Euroview PVC windows and doors provide superior energy efficiency, sound transmission control, they are low maintenance and retain their color.



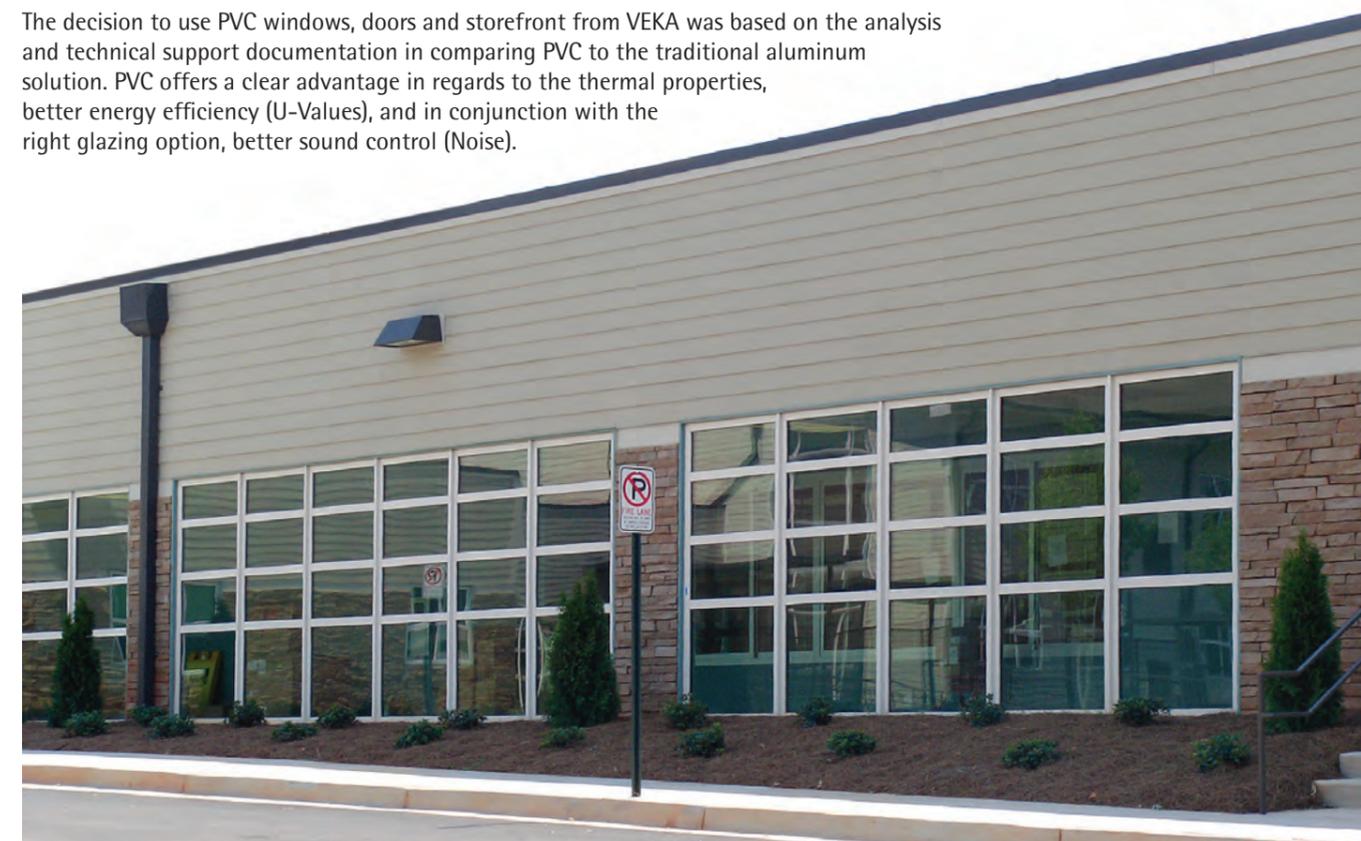
PROJECT DETAILS

Project Name:	McNair Cluster Elementary School
Location:	Decatur, GA
Owner:	DeKalb County
Architect:	Vernell Barnes
Builder/Contractor:	C. D. Moody Construction
Construction Type:	New Construction
Square Footage:	108,849 sq. ft.

TECHNICAL SPECIFICATIONS

Window System:	VEKA Euroview 58DS
Products:	Steel Reinforced Vinyl Tilt/Turn Windows, Swing Doors
Color:	Bone (Creme)
Glazing:	Cardinal LowE3, 1" IG overall
Hardware:	Stanley Panic Hardware
Number of Units:	128 Fixed Windows 61" x 61" 8 Double Doors 6'x 8'w/top lite 9 Single Doors 3'x 8'w/top lite

The decision to use PVC windows, doors and storefront from VEKA was based on the analysis and technical support documentation in comparing PVC to the traditional aluminum solution. PVC offers a clear advantage in regards to the thermal properties, better energy efficiency (U-Values), and in conjunction with the right glazing option, better sound control (Noise).



Unique Requirements/Solutions

- To maintain comfort and energy efficiency the system that was chosen for the McNair Elementary School was the VEKA Euroview 58 DS. This system has a 58mm (2-1/4") frame depth. Its thermal properties are achieved by a 3-chamber dead air-pocket system in all frame and sashes.
- In order to maintain structural integrity the frame and sash profiles are all steel reinforced to provide the structural strength and decrease the thermal expansion factors inherent in PVC systems.

A basic tenet at C.D. Moody Construction Company, Inc. is to give back to the community that has supported their business growth. The staff and employees are active on many boards and in many professional societies. The company has motivated and guided five new entrepreneurs into business and serves as a mentor to three small businesses. In addition, C.D. Moody Construction Company, Inc. has adopted two schools and our staff mentors local student groups. In 1989, the company established the C.D. Moody Construction Company, Inc. Foundation, which has awarded 80 scholarships to deserving students.

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Vernell Barnes is a small architectural design firm located in the Metropolitan Atlanta area. Vernell Barnes has more than 25 years of experience for a variety of institutional, residential, corporate, commercial, and retail projects. Their design philosophy emphasizes incorporating the client's idea at every design milestone. Using professional skills and talents to blend those ideas with the program, schedule and budgetary requirements, Vernell Barnes provides architectural solutions to meet each client's objectives while enhancing the environment.

Vernell Barnes seeks to build long-lasting client relationships based on understanding and meeting client needs, providing good design and a high standard of professional service.

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