



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 to serve customers globally from 25 plants worldwide. VEKA has over 40 years of leadership helping fabricators deploy technologically advanced materials for residential and commercial building applications.

VEKA EUROVIEW 70 DS SYSTEM:

The system chosen for use in Huntsville Women's and Children Hospital was the VEKA Euroview 70DS. The system has a 70mm (2-3/4") frame depth. Its 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 $U_w=1,0 \text{ W/m}^2\text{K}$ (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 requirement, 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.

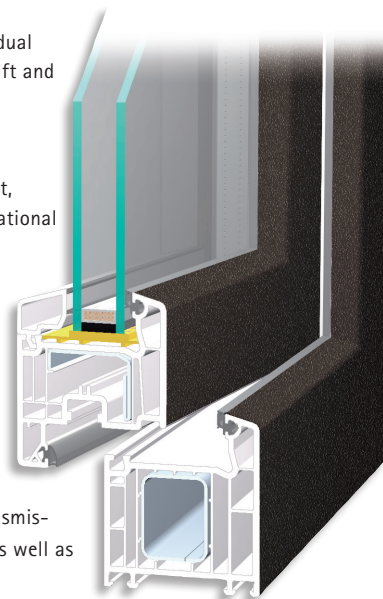
Save Energy and Reduce Costs
With multi-chamber technology, VEKA profiles have an enormously low heat transmission value. This reduces your energy use as well as heating and cooling costs.

Feel Comfortable

The excellent insulation performance of VEKA profiles and reliable weather seals guarantee a difference in overall room temperature to provide 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.



Huntsville Women's and Children Hospital

Huntsville Hospital, the second largest in Alabama, is a 941-bed facility that serves as the regional referral center for northern Alabama and southern Tennessee. In recent years, the hospital has expanded its service with the development of Huntsville Hospital Health System, making it the third largest publicly owned hospital system in the nation with more than 1,800 beds and 12,000 employees.

The Huntsville Hospital complex itself consists of a dozen buildings of various age spaced across four city blocks in Huntsville. A phased comprehensive energy reduction plan was implemented by hospital plant operations with replacement windows being an integral part.

In 2010, a plan to upgrade all window openings was put in place with a primary focus on patient rooms and replacing the older single pane aluminum window units.



Case Study





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



Euroview windows provide superior energy efficiency, sound control and low maintenance. They tilt in for ventilation, swing in for ease of cleaning or emergency egress. Interior is white vinyl with color matched hardware and bronze exterior laminate.



These particular window units are furnished with glass package and between the glass venetian blinds

PROJECT DETAILS

Project Name:	Huntsville Women's and Children Hospital
Location:	Huntsville, AL
Owner:	Humana/St. Jude's affiliated
Installer:	North Alabama Glass Co.
Builder/Contractor:	In House
Construction Type:	Window Replacement
Code Conditions:	Hurricane/Impact requirement

TECHNICAL SPECIFICATIONS

Window System:	VEKA Euroview 70mm
Products:	Aluminum Reinforced Tilt/Turn Vinyl Exterior Laminated Windows
Color:	Dark Bronze Exterior Laminate
Glazing:	Cardinal LowE3, 1" IG overall
Hardware:	Roto Hardware
Number of Units:	1000+ Windows 400-500 individual openings

The decision to install 70mm windows 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

- Since Huntsville is proximate to the hurricane wind zone local code required impact windows.
- Hospital Plant Operations listed a number of requirements that the window system should satisfy. Energy efficiency, patient comfort, ventilation, egress, sound suppression, ease of cleaning from inside the building and dual color finish.
- The VEKA 70 DS system with 1-1/4" OA (3/16" GRY Temp 3/4" Argon w/OEMSL20A Mini Blinds 5/16" HS 060 SGP/Hard coat Low-E# 4) Glass package that meets impact requirements as

- well as providing enhanced insulation, reduced sound transmission and "between the glass" blinds control light; all of these features greatly adding to overall patient comfort.
- The weather-resistant key operated hardware by ROTO allows the operable sash to open in, providing access to clean the windows from inside which offers greater safety and cost reduction versus cleaning outside with scaffolding.
- Dark bronze exterior laminate finish and white vinyl interior surface provided the desired look not possible with aluminum.



Our craftsmanship, attention to detail, and ultra-high-performance ratings have made WinDoor Incorporated the product of choice for five-star resorts, luxury high-rise condominiums, and celebrity mansions along the US coastline for over 15 years. Manufacturing from our 320,000 square foot facility in Orlando, Florida; our window products are AAMA, ASTM and Miami-Dade approved and TDI approved products are always available in large sizes, custom colors and custom configurations.

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