

# SIGNATURE ELITE

HIGH-PERFORMANCE VINYL WINDOWS

## PREVENT AIR LEAKAGE AND ENERGY LOSS

Preventing air infiltration is a key factor in your home's energy efficiency. Windows can be one of the largest sources of energy loss in a home, so it's important to choose a window that creates an excellent barrier against air leakage.

### UNDERSTANDING AIR INFILTRATION

Air infiltration occurs whenever there is a pressure difference between the inside and outside of a home, typically caused by wind or a change in temperature. Air flows into the home through small spaces in windows, doors, walls, floors, roofing and other areas, which can lead to increased heating and cooling energy needs. In summer months, air infiltration also can increase humidity in the home.

Signature Elite windows are energy-engineered to protect your home from air infiltration and energy loss. The dual-pane unit with double-strength insulated glass, fusion-welded frame and sash, non-conductive composite reinforcement and multi-layer weatherstripping combine in a thermally optimized construction for a powerful all-weather barrier – keeping your home warm in the winter and cool in the summer with less energy use.

### COMPARE THE AIR LEAKAGE PERFORMANCE RATING

The Air Leakage (AL) rating makes it easy to compare one window to the next. The lower the AL rating the less air will pass through the window unit. Signature Elite windows achieve an excellent AL rating of only 0.04 CFM (cubic feet per minute) compared to the allowable air infiltration standard of 0.30 CFM set by the American Architectural Manufacturers Association.



Consider the measurable advantage: Signature Elite windows average 0.30 gallons of air leakage per minute, while the industry standard allows 2.25 gallons of air leakage per minute. When you compare Signature Elite to other residential windows you'll see why it's a superior choice for your home.

### Air Infiltration Comparison Chart

CFM (cubic feet per minute)	=	Gallons	=	12 Ounce Soda Cans
<b>Signature Elite Windows</b> <b>.04 CFM</b> of air leakage per minute		 0.30 gallons of air leakage per min		 3.2 cans of air leakage per min (38.4 oz/min)
<b>Industry Standard</b> <b>.30 CFM</b> of air leakage per minute		 2.25 gallons of air leakage per min		 24 cans of air leakage per min (288 oz/min)

### VALUABLE ENERGY SAVINGS!



Did you know that heat loss and gain through windows account for up to 50% of a home's heating and cooling needs.\* Signature Elite windows offer a variety of double- and triple-pane BarrierXP® insulated glass options that can help lower your fuel bills. Please consult your window professional to help you choose the best glass package to meet the ENERGY STAR® requirements for your home and climate zone.



The Air Leakage (AL) rating pertains to air infiltration that occurs through the window unit itself. It is expressed as the equivalent cubic feet of air passing through a square foot of window area per minute. Air leakage typically may occur through the window assembly components, such as the sash perimeter, sash meeting rails and sill.

Quality construction, tight sealing and weatherstripping are essential in preventing air leakage. Poorly designed windows do not have the necessary barriers to block air from forcing its way in and can be a substantial source of energy loss in a home.



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