

CertainTeed
DEVON[®]
Windows

**Proven performance
for easy living.**

*Chosen by almost
a million homeowners*

*Advanced engineering
beats the worst weather*

*One of the industry's
strongest warranties*

CertainTeed [®]
Quality made certain. Satisfaction guaranteed.[™]

The windows you can trust for a lifetime.



Devon windows have proven themselves in almost a million homes. They've withstood extremes of cold, heat, wind, rain, and snow all across the country — not to mention the tough treatment today's families dish out day after day.

Solid and dependable, they reflect CertainTeed's experience as an industry leader since 1979. They

are one of CertainTeed's most popular windows — an economical design, with features you can count on for dependable performance.

Devon windows are designed to provide trouble-free operation for decades. They deliver thermal efficiency based on proven concepts and the latest innovations. And they have an appealing look that complements any decor.

Through widespread use, Devon windows have earned the trust of professionals and homeowners across America.

Choosing a window is hard work.

You're making a decision you'll live with for a long time. With more than 600 window brands on the market, you need to look closely and understand how to recognize real value. This brochure and the advice of your contractor are a good place to start.

Real value is built right into the best windows. They are designed from the ground up to give you the performance you need.

Unfortunately, many windows today are designed and built for low cost, not value. You can quickly recognize these windows by their lightweight sash and frame, inexpensive and less reliable block-and-tackle or spiral balance systems, and off-the-shelf hardware that doesn't match the color of the vinyl or other hardware.

Devon windows are designed to deliver solid, reliable performance at a competitive price. In the chart below and the pages that follow, you'll see the engineering and design details that make Devon the windows you can trust for a lifetime.

Value vs. Low Cost: Not all vinyl windows are created equal.

Feature	Best value solution	Low cost solution
Sash and frame	Robust double-walled profiles	Single-walled profiles
Sash construction	Fusion welding	Mechanical fastening
Glass spacer technology	New (warm edge with low conductance)	Old fashioned (aluminum with high conductance)
Performance ratings	Significantly exceeds industry standards	Meets industry standards
Balance system	3/4" stainless steel, constant-force	Block and tackle or spiral
Hardware/lock	Custom-designed; color-matched to vinyl profiles	Off-the-shelf; color does not match vinyl profiles
Styling/design	Engineered for a balance of traditional looks and functionality	Engineered for functionality
Warranty period	Lifetime	10 to 20 years

The features that perform — day after day, decade after decade.



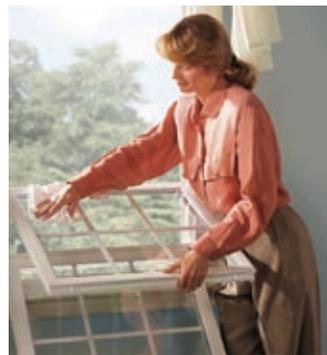
Devon windows are manufactured to stand up to a lifetime of harsh exposure without corroding, peeling, chipping, or flaking.

Rough handling. Tough environments. Devon windows have seen it all. And survived beautifully.

That means you can install them and forget them. Your family can use them year in and year out, without a worry.

High-strength fusion-welded sashes and mechanically fastened frames are strong and structurally sound. They can stand up to pressures that make other windows shift, bend, or collapse.

And every detail has been refined. Custom-designed hardware is made from non-corrosive metals or



Double-hung sashes tilt in, sliders lift out, and casements open 90° for easy glass cleaning from inside your home.

UV-stabilized engineered plastics for long life. The balance and the tilt-in mechanisms for the sashes are corrosion-resistant and tested for decades of trouble-free operation.

There's virtually no maintenance required to keep your Devon windows looking great. Their solid vinyl construction means no scraping, puttying, or painting. In fact, just a quick wash with soap and water will make sashes and frames look like new.

Why your windows will operate easily — always!

The balance system makes the difference in how well your windows operate.

Ordinary systems, like block-and-tackle or spiral balances, are based on simple wire-spiral springs. You've played with springs like these — the farther you stretch them the harder they pull back. You can feel that when you open and close most windows.

CertainTeed's balance system is different. It's based on a 3/4" wide stainless steel coil that applies a constant force. There's no change in tension, so sashes are easy to open and close, and stay where you put them.



For truly easy sash operation, CertainTeed's balance operates like a high-quality retractable tape measure — with a smooth, steady pull.

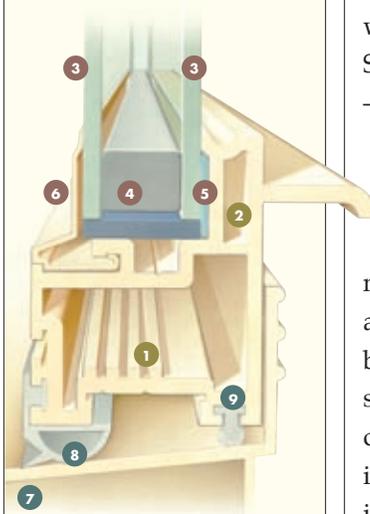
Relax and stay comfortable — whatever the weather.

How advanced engineering beats the worst weather.

■ Air spaces in the sash and frame (1) and double wall profiles (2) add insulation and strength.

■ Double-pane insulating glass unit (3) with a low-conductance spacer (4) is far superior to single-pane windows; glass is bonded to sash (5) and made weather-tight with a rigid glazing bead featuring a flexible lip (6).

■ A sloped sill (7), a rubber gasket seal (8), and silicone treated, high-density-pile double weatherstripping with a mylar fin (9) help keep your home draft-free.



Cross section of sash and sill



You can trust Devon windows to resist air and water infiltration. They've been tested in the laboratory and proven in the real world — even during severe storms.

From the storms and snows of the northern states to the heat and hurricanes of the southern coasts, Devon windows have met the test. So you don't have to worry — wherever you are.

A comfortable home.

Laboratory tests demonstrate that Devon's engineering features help resist air infiltration nearly 100% better than AAMA/WDMA standards. They also significantly reduce condensation in cold weather, with a lower indoor glass temperature.

They reduce outside noise, with a sound transmission coefficient (STC) that's better than a 4-inch cinder block wall.

Real thermal efficiency.

Devon windows can help you save on energy costs, year round. The standard double pane insulating glass unit with a low-conductance spacer — which reduces heat loss through the edges of the glass — delivers high thermal efficiency. In fact, it is twice as efficient as single pane windows.

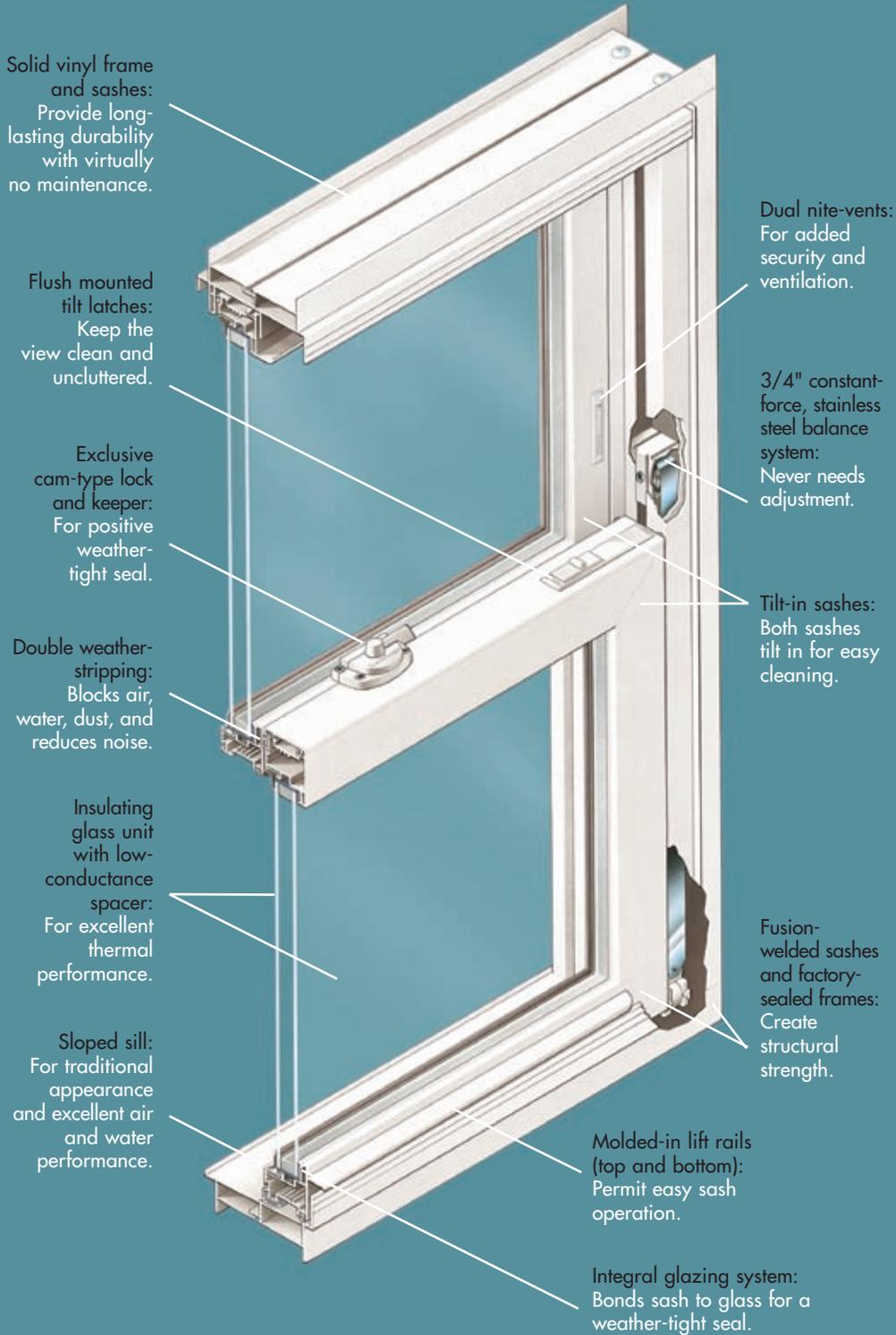
For optimum performance choose CertainTeed's proprietary Thermafect® glazing system with Low "E" glass, and argon gas (which increases the insulation value of the double-pane unit).

Thermafect's special coating of two microscopic layers of silver — versus one on ordinary Low "E" — gives it additional selectivity. Thermafect not only keeps heat inside in cool weather, it keeps out the sun's heat in warm weather two times better than ordinary Low "E". It does all this while blocking 84% of the UV rays that can damage fabrics and carpets, and letting in high levels of visible light for a natural view.

Wherever you live, Thermafect will help keep you more comfortable. And you'll save an average of more than \$300 per year if you're replacing single pane aluminum windows. So whether you face snowy winters or long hot summers, Thermafect can keep you more comfortable, and help reduce energy costs.

*These calculations are based on a 2400 ft² two-story frame house, with 432 ft² of window area, R-19 walls, R-30 roof and equal distribution of glazing in the four cardinal directions.

Double-hung window features and benefits.



Note: CertainTeed's exclusive Thermaflex® Low "E" glazing system with Thermaflex glass, argon gas, and low-conductance spacer is available as an option.

Every Devon window style is proven.

With over six million Devon windows installed in houses across the country, you can be confident that every style is a proven performer.

Double-hung

- (See drawing to left)

Sliders

- Both sashes lift out for easy cleaning
- Sashes glide on specially designed pads or rollers for ease of operation
- Sashes have equal glass size for an appealing look
- Tracks have slotted weep holes for excellent drainage

Casements/Awnings

- Special hinges open a full 90 degrees for maximum ventilation and easy cleaning from inside
- High-quality operating hardware has E-Gard® coating for corrosion protection
- Multi-point lock and dual compression seal for extra security and weather-tight closure

Bays and bows

- Available as 10° casement bows, and 30° and 45° bays with double-hung, casement, and/or fixed windows
- Headboard and seatboard insulated with vinyl-backed foam core to retard moisture and enhance comfort
- Stainable, paintable birch headboard and seatboard

Custom made to fit your home.



Double-hungs give a room an added brightness and excellent ventilation, and a traditional look.



Casements offer a wide viewing area with maximum ventilation.



Picture windows offer enormous variety for design flexibility.



Bay windows add architectural interest, plenty of light, and spaciousness to the room.



Slider windows are an excellent selection when space is at a premium.



Awning windows can put light and ventilation in out of the way places.

Your windows can be replaced with Devon windows with no patching, no filling, and no hassles. Unlike many national brands of windows, which only provide custom sizes for a premium price and with a long lead time, every Devon window is custom made for the regular price and with normal lead times.

That means the work on your home can be done without disturbing your wallpaper or trim — at any time of year.

The styles you want.

Devon has all the choices you need: double-hung, slider, casement, awning, picture, bays and bows, combinations, and geometric shapes. You can get them in white or tan to match your decor. Choose from full or half screens that can be installed and removed from the inside. Add sculptured or flat grids between the glass for easy cleaning.



Devon windows are available in white or tan vinyl.

From the company you can trust for quality.

With CertainTeed windows, you're investing in long-term value. You can see it in the name. It comes from the motto, "Quality made *certain*, satisfaction guaranteed," that has guided the development of the company and its products since 1904.

A commitment to continued leadership.

Independent surveys of contractors have rated ours the number one vinyl window they use. Our customers trust us for quality, because we have consistently delivered superior performance, thermal efficiency, and good looks.

CertainTeed is a long-standing leader in building products, offering roofing, vinyl and fibercement siding, fiber glass insulation, pipe, fence, deck, and railing products, as well as vinyl windows.



CertainTeed Corporation was founded in 1904, and has been a major force in the building products industry ever since.

We pioneered vinyl windows — responding to the challenges of the energy crisis of the 1970s.

Now, we're continually improving vinyl window technology through commitments to research and development.

The backing of a major corporation.

Devon windows are the product of a \$2.5 billion corporation, and are available at distributors across the United States ensuring fast delivery, responsive service, and complete support.

One of the industry's strongest warranties.

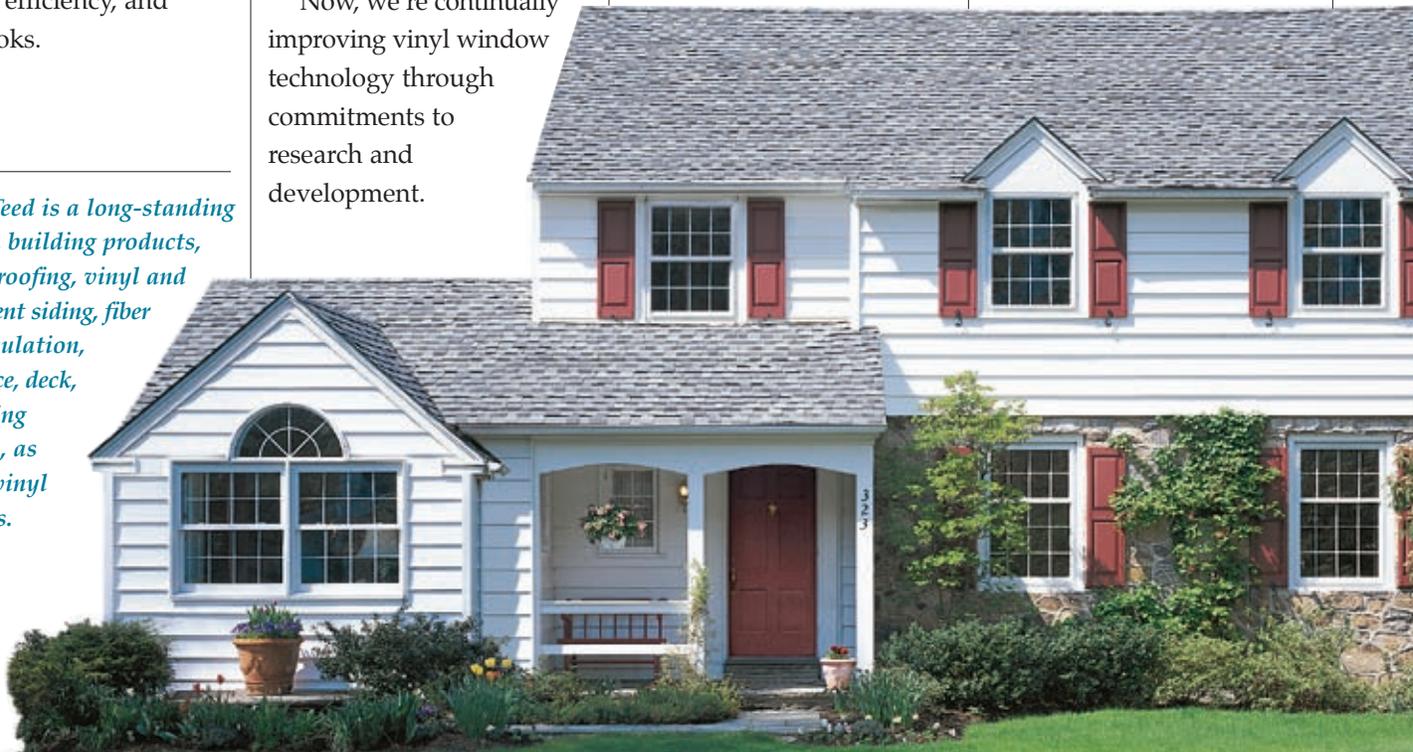
Relax. Your windows are covered for as long as you own your home. And that coverage is truly superior.

Just look at the terms of our basic limited warranty: lifetime coverage for the sash and frame, lifetime coverage for the glass, and

lifetime coverage for the hardware. No matter how hard you look, you won't find another national window company with a warranty that strong.

But that's not all. Our warranty also includes SureStart™ protection, which means we'll pay 100% of the materials and labor to repair or replace a defective window during the first five years following installation.

A warranty this strong demonstrates CertainTeed's confidence. And it's your assurance of value now and in the future.



Devon windows with the Thermafect® Low “E” glazing system offer excellent thermal performance.

Glazing Type	Total Unit U-Values ^{1,2}					Center of Glass U-Value ⁴	Daylight Transmittance ⁵	UV Block ^{5,6}	Solar Heat Gain Coefficient ⁷
	Double-Hung	Slider	Picture	Casement	Awning				
Standard Double-Pane	0.50	0.51	0.50	0.51	0.51	0.49	82%	43%	0.58
Thermafect®/Argon/Low-Conductance Spacer ³	0.32	0.32	0.30	0.34	0.35	0.24	71%	84%	0.36

¹U-value can be compared to R-value by dividing 1 by the U-value. (Thus, a U-value of 0.5 equals an R-value of 2.)

²Picture window tested in accordance with NFRC 100-2001, all others to NFRC 100-97. Data applicable for double-pane insulating units using either double-strength glass with a 1/2" air space or single-strength glass with 9/16" air space.

Window Style	Size
Double-Hung	36" x 60"
Slider	60" x 36"
Picture	47" x 59"
Casement	24" x 48"
Awning	48" x 24"

³Low-conductance spacer used in these tests was TruSeal's Swiggle® Seal.

⁴Center of glass U-values supplied by glass manufacturers.

⁵Calculations performed using the Lawrence Berkeley Laboratories Window 4.1 computer program and a 3/4" insulating unit.

⁶Based on UV transmission from 300 to 380 nm.

⁷Solar Heat Gain Coefficient (SHGC) for a 36" x 60" double-hung tested in accordance with NFRC 100-97. Solar Heat Gain Coefficient varies by style, glazing system, and presence of grids. All Devon® windows with the Thermafect glazing system have a SHGC less than .40.



Devon® windows with the Thermafect® glazing system meet the ENERGY STAR® guidelines for thermal efficiency in all climate regions.

Glossary of performance terms.

■ **Low “E”:** Low-emissivity glass is coated with a microscopically thin metallic layer that allows visible light to pass through, while blocking ultraviolet and infrared solar energy and reflecting away long-wave room-side heat energy. Different types of Low “E” coatings offer varying levels of performance for each of these tasks.

■ **U-Value:** The rate of heat flow through a glazing system; the lower the value, the better the insulating quality.

■ **Daylight Transmittance:** Measures the amount of visible light that is transmitted through the glass.

■ **UV Block:** Measures the amount of damaging ultraviolet light that is blocked from being transmitted through the glass.

■ **Solar Heat Gain Coefficient:** The amount of direct solar radiation that enters through the glass into the home as heat. The smaller the number, the better the glazing is at preventing solar heat gain.

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