

# Sheffield<sup>®</sup>

*Ultra-Premium, Custom-Made Windows*



*The ultimate choice for maximum  
beauty, strength and energy savings.*

**Alside<sup>®</sup>**

*The Beauty You See Is Just Part of the Sheffield Story*



*In every detail,*



*Enjoy greater comfort  
and lower energy bills.*

No matter where you live, it costs money to stay comfortable. In the summer, you pay to keep heat out of your home; in the winter, you pay to keep it in. That's when ordinary windows become a costly problem. They do little to stop the gain – or loss – of heat. That's why Sheffield Fusion-Welded Vinyl Windows are such a great investment. They incorporate more than a dozen advanced design features that effectively block the flow of heat, saving you money and keeping you comfortable, season after season.

*Sheffield's outstanding  
performance starts with  
innovatively engineered  
components that provide  
the basis for superior  
energy savings.*

The multi-chamber design of the Sheffield Window helps trap dead air to produce an effective insulating barrier, while fusion-welded frame and sashes provide superior structural strength and create a permanent barrier against air and moisture infiltration.



A special multi-layer weather-stripping and a superior sash interlock system offer additional barriers to air infiltration, adding up to greater energy savings – and lower utility bills.

Sheffield's Intercept® Warm-Edge Spacer System with high-efficiency insulated glass creates an effective barrier that helps to prevent heat loss during winter and heat gain during the hot summer months. Premium raw materials form the extra-thick walls of Sheffield's sturdy frame and sashes, and the quality construction ensures that they won't rot, swell, split, corrode or pit.

They're tough, durable and other than an occasional washing, require minimal maintenance.

To ensure easy opening and closing of the Sheffield Window, the constant force balance system and heavy-duty operating hardware will continue to operate perfectly, even after decades of regular use. A sloped sill helps prevent water and air infiltration while maintaining the timeless detailed appearance characteristic of double-hung windows. Beveled mainframe on double-hung, sliding and casement windows provide a finished appearance complementing every home's style.

*Experience you can trust.*

When you buy Sheffield Windows, you know you're getting more than just a frame, sashes and glass. You're getting the knowledge and technical skill of Alside's Product Development Group – experts with a proven track record designing, building and testing superior, energy-efficient windows. These specialists know that to build the best windows, you have to start with the best materials and components. Their experience is your assurance of total satisfaction.



*a commitment to excellence.*

# A Blend of Modern Efficiencies



## *Definity™ Vinyl Technology*

The heart of the Sheffield platform is Definity vinyl. This advanced vinyl compound is rugged, durable and virtually maintenance-free. The material's low thermal conductivity makes it the perfect choice for window manufacturing.

## *EliteWeld™ Fusion Welding*

Every corner of the Sheffield Window features EliteWeld fusion welding, a technologically-advanced method of construction that delivers superior strength. The EliteWeld method



produces full-contact welding points and does not require below-the-face flash clean up.

## *Intercept Spacer System*

The Intercept Spacer System features a unique, one-piece U-channel design that creates an effective thermal barrier to help reduce conducted heat loss through the window. Its sealed, one-piece design makes Intercept spacers stronger and better at retaining insulating gas than many conventional designs. Intercept spacers are so energy-efficient that they keep the edges of the window glass warmer, so your home feels more comfortable in the winter.

## *WeatherShed™ Sloped Sill*

Our double-hung windows feature a WeatherShed sloped sill. This sill design incorporates the elegant look of a traditional sill and forces water to drain to the exterior. The result is a great-looking window that is able to withstand harsh elements.

Sheffield Double-Hung, Sliding, and Casement Windows feature a mainframe design that helps the Sheffield Window accommodate various installation methods and architectural styles.

## *Constant Force Balance System*

Our double-hung window units feature a stainless steel Constant Force balance system. This system ensures smooth and easy sash opening and closing, and has been rigorously tested for decades of operation. So rigorous in fact, that this balance system has been tested to nearly 6,000 cycles (one cycle is the equivalent of opening and closing the sash), far exceeding the industry standard of 4,000 cycles.

## *Triton™ Locking System*

All Sheffield Double-Hung and Sliding Windows feature the Triton Locking



System. Located at the meeting rails, this heavy-duty cam lock and keeper fit tightly together when

fully engaged for added security. The Triton Locking System also forces the interlock at the meeting rails of both sashes to close tightly which helps to prevent air infiltration. Double locks are standard on all windows 25" or wider.

## *SteelForce™ Reinforcement*

The SteelForce steel reinforcement is installed in every Sheffield Double-Hung and Sliding Window. This heavy-duty steel extrusion is placed within the sashes



at the meeting rails to ensure extra protection at this very critical and often used location.

## *CommandPlus™ Hardware*

Our casement and awning windows feature CommandPlus operating hardware. This heavy-duty hardware provides maximum strength for lifelong ease of operation, along with a corrosion-proof finish that is guaranteed for life.



*a commitment to excellence.*

# An Eco-Friendly Choice



## Go Green

Exceptionally energy-smart and weathertight, Alside Windows not only reduce fuel consumption needed to heat and cool homes, they also boast a long service life and achieve optimal material use and minimal waste in production. Virtually all in-plant vinyl scrap is recycled into other useful products, further reducing the environmental impact of waste. Vinyl windows also are eco-friendly because vinyl resin is derived largely from common salt – a sustainable and abundant natural resource!<sup>1</sup>

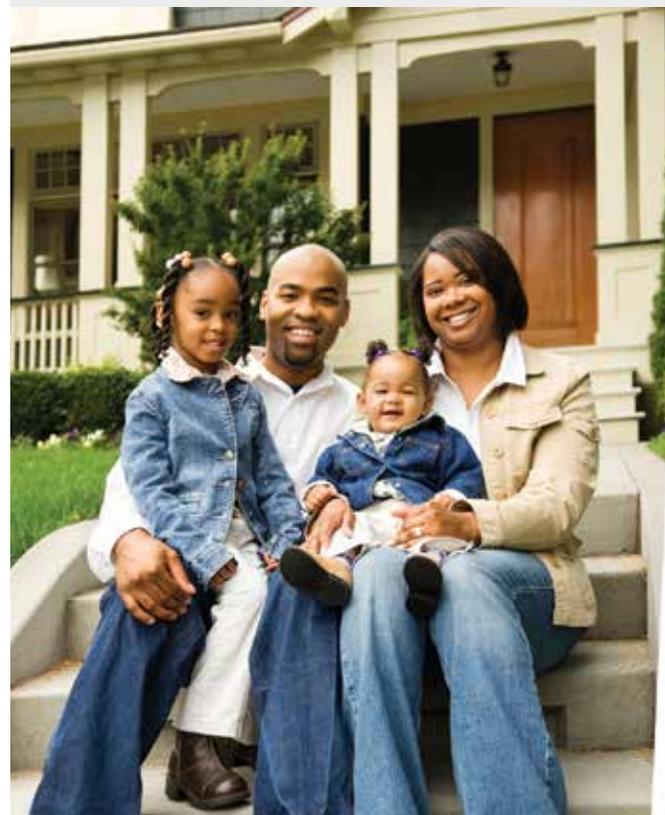
<sup>1</sup> Source: *A Clear View – Vinyl Windows and the Environment*. American Architectural Manufacturers Association (AAMA) & The Vinyl Institute (VI).

## Ask Us About Tax Credits!

Take advantage of temporary tax credit incentives.



Ask your Alside Sales Representative for more information about energy tax credits\* and visit [www.energystar.gov](http://www.energystar.gov) or [www.dsireusa.org](http://www.dsireusa.org) for details. DSIRE is a comprehensive source of information on federal, state, local and utility incentives and policies that promote renewable energy and energy efficiency.



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# Built for Exceptional Appearance and Performance

*Using advanced design and superior materials, Sheffield Windows produce outstanding energy savings and trouble-free operation.*



1. *Vinyl frame and sashes will never chip, peel, crack or warp.* Made with premium raw materials, the vinyl color is formulated throughout so the beautiful luster lasts.
2. *Multi-chambered sash and mainframe* create insulating air spaces for thermal efficiency.
3. *Quad 4 weatherstripping* at the header adds greater protection from the elements.
4. *Insulated glass unit* featuring double-strength glass with optimal air space improves year-round performance.
5. *Intercept Warm-Edge Spacer System* maximizes thermal efficiency and the life of the insulated glass unit.
6. *Interlock at sash meeting rails* creates a super-tight seal against air infiltration, providing security, comfort and well-being.
7. *Steel reinforcement* adds strength at the meeting rails.
8. *Drop-in glazing provides energy efficiency* as well as interior aesthetic appeal.
9. *Compression bulb seal* at the sill creates an all-season weather barrier sealing tightly against dust, dirt and air infiltration.
10. *Sloped sill* forces water to drain to the exterior of the window.
11. *Hidden screen track* for clean lines and added beauty.
12. *Fully extruded lift rails* provide strength and stability for easy operation.

*Plus these additional advanced design features:*

- Fusion-welded frame and sashes add strength and rigidity.
- Dual vent stops provide a limited opening of the window for ventilation.
- Full balance covers help protect against air infiltration while adding a finished look to the window frame.
- Constant force balance system eliminates sash cords, weights and pulleys, and provides easy fingertip operation.
- Tilt-in top and bottom sashes make cleaning safe and easy from inside the home.
- Triple-barrier weatherstripping between the sash and jamb for superior protection from air and water infiltration.
- Full or half fiberglass screens provide ventilation while keeping insects out.<sup>2</sup>

## *The Alside Lifetime Limited Warranty*

Sheffield Windows are made by Alside, a recognized leader in product innovation, manufacturing excellence and uncompromising quality control.



That's a reputation you can count on, from the day your windows are installed until the day you sell your home. And to make your buying decision easier, Alside backs all Sheffield Windows with a Lifetime Limited Warranty<sup>†</sup>. . . one of the strongest in the industry.

<sup>2</sup>Full screens are standard on exterior color-finished windows.

# ClimaTech® High-Performance Insulated Glass Packages

## ClimaTech... your solution for increased window performance.

Our optional ClimaTech insulated glass package combines multi-layered low-emissivity (Low-E) glass, argon gas\*\* and the Intercept Warm-Edge Spacer System. ClimaTech is up to 40% more energy-efficient than single or clear insulated glass systems.

Sheffield Windows with ClimaTech exceed the performance requirements set forth by the U.S. Department of Energy in conjunction with the National Fenestration Rating Council (NFRC) test criteria.

One of the most critical NFRC tests measures the rate of heat loss through a window or door (U-Factor). The lower the U-Factor, the better the product is at resisting heat flow, which results in a product with a greater insulating value.

### Sheffield Double-Hung Glass Performance Comparison<sup>3</sup>

	U-Factor	SHGC
Clear Glass	0.44	0.54
ClimaTech	0.29	0.28
ClimaTech ThermD	0.28	0.28
ClimaTech Elite	0.29	0.19
ClimaTech TG2	0.23	0.24
ClimaTech TG2 ThermD Elite	0.22	0.18

<sup>3</sup>Whole window values.

Another critical NFRC test is for Solar Heat Gain Coefficient (SHGC). This procedure measures how well a product blocks heat caused by sunlight. Again, the lower the number, the less solar heat the window transmits into the home. The above chart clearly shows how the performance of Sheffield Windows can be enhanced with the addition of various ClimaTech insulated glass packages.



*Low-E glass filters long-wave radiation from the sun. This reduces solar heat gain from the summer sun, helping to keep your home cooler.*



*Low-E glass takes on a new duty in winter months. It lets warm solar rays into your home, while preventing indoor heat from escaping.*



## Performance Options

### Make your home an energy miser. It's easy!

For maximum energy savings, upgrade your Sheffield Windows with a ClimaTech insulating glass package, featuring Low-E glass, argon gas and the Intercept Warm-Edge Spacer System. The superior thermal performance of this insulating glass unit can help lower your energy costs while further reducing the consumption of fossil fuels. Many ClimaTech insulating glass packages meet the latest ENERGY STAR® requirements.

### What makes the ClimaTech insulated glass package so effective?

Since 80% of a window is glass, substantial heating and cooling savings come from improved glass performance.

- Our combination of UV-filtering Low-E glass, argon gas and the Intercept Warm-Edge Spacer System dramatically enhances energy efficiency. Together they can cut the damaging effects of the sun, which can lead to the fading of carpets, curtains and furniture, by an additional 72% over clear insulated glass units.
- In winter, a warmer glass temperature is maintained, increasing the R-Value by up to an additional 104%.
- In summer, up to a 49% reduction in solar heat gain helps reduce air-conditioning usage.



*Alside offers a variety of ENERGY STAR qualified products. Consult your window professional for the optimal glass package required for your home and climate zone.*

# Double-Hung Windows



*It's the most popular window choice in American architecture – the stately, ascending lines of double-hung windows will add beauty and distinction to any home.*



*Multi-chambered frame and sash (left). Heavy-duty cam action locking system (center). Recessed tilt latches (right).*

- Fusion-welded sash and mainframe structure for added strength and rigidity.
- Interlock at sash meeting rails creates a super-tight seal against air infiltration, providing security, comfort and well being.
- Sloped sill forces water to drain to the exterior of the window.
- Drop-in glazing provides energy efficiency as well as interior aesthetic appeal.
- Triple-barrier weatherstripping for superior protection from air and water infiltration.
- Constant force balance system eliminates sash cords, weights and pulleys and provides easy fingertip operation.
- Hidden screen track for clean lines and added beauty.

# Sliding Windows

*With ordinary windows, more is usually a problem – more window area means more heat loss, and that means higher heating and cooling bills. But with energy-efficient Sheffield Sliding Windows, it's easy to open your rooms to added beauty.*

- Fusion-welded sash and mainframe structure for increased strength and rigidity.
- Tough, extra-thick extrusion walls provide the ultimate in welding strength.
- Hidden screen track produces clean lines and added beauty.
- Double-barrier weatherstripping for superior protection from air and water infiltration.
- Nylon-encased dual brass roller system.
- Theft deterrent locks.

*Each sliding window operating sash features two sets of solid-brass tandem rollers to ensure smooth, effortless window operation (upper right).*



*Sash vent stops allow fresh airflow (lower right).*



# Casement Windows



*Casement windows are both beautiful and versatile, making them easy to use in any room and with any architectural style.*



- Beveled exterior sash design creates the appearance of a larger glass area with an attractive slimline look.
- Step-down frame with compression-type inner bulb seal provides a tight seal during inclement weather.
- State-of-the-art hinge system offers multi-directional ventilation and allows sash cleaning from inside the home.
- Positive crank mechanism allows easy operation when opening and closing the sash.
- Metal reinforcement helps to secure the operating hinge system.
- Multi-point locking system ensures a tight fit and added security.
- Multiple lite configurations available in a single mainframe.



*A low-profile, single-lever locking handle adds to the ease of operation (left). Sturdy stainless steel hinge system for years of trouble-free opening and closing (center). Functional and stylish, this sleek fold-away crank handle won't get caught up in blinds or curtains (right).*

# Awning Windows

*Create an elegant interior and exterior design for your home with easy-to-operate awning windows.*

- Beveled exterior sash design gives the window the appearance of a larger glass area with an attractive slimline look.
- Heavy-duty, state-of-the-art hinge system provides easy operation from inside the home.
- Metal reinforcement helps to secure the operating hinge system.
- Dual-point locking system seals the window tightly.
- Multiple lite configurations available in a single mainframe.
- Combine awning and fixed-lite windows to add striking beauty and increased visibility.



*Dual locking system on each side of the window.*



*Sturdy stainless steel hinge system for years of trouble-free opening and closing.*



# Bay and Bow Windows

*Bay and bow windows let you change the basic architectural look of your home – inside and out. They open up rooms, making them seem larger and brighter.*

- 1 1/4" furniture-grade veneer is standard in the construction of head, seatboard and jambs.
- Head and seatboard is available in oak or birch veneer finishes and are ready for painting or staining.<sup>††</sup>
- 3" pre-insulated seatboard option means a more comfortable home and helps increase energy savings.
- Slimline reinforced mullion design provides superior strength and support for the selected components.
- Bay and bow windows are available in white or beige with optional rich maple, light oak, dark oak, foxwood or cherry woodgrain interior finishes.
- Exterior roof system available with optional copper or painted aluminum roof clad kits.



Oak



Birch

*Choose from an oak or birch furniture-grade veneer to complement your window selection (left).*



# Garden Windows



*Now you can have fresh flowers or herbs in your home throughout the year, right in the room where they'll bring you the most pleasure.*

- Fully welded mainframe for strength and stability.
- Top sloped insulating glass panel is tempered for improved safety and unit integrity.
- Equal sightlines between picture units and operating sashes.
- Twin-sealing, fully screened, operating casements improves weather protection.
- Multi-point locking system for a tighter seal and added security.
- Clear 1" insulated glass unit provides all-weather protection.

*Garden windows feature easy-to-reach operating and locking hardware.*



# Sliding Patio Doors



## *Sliding Patio Door Collection*

*– Contemporary, Classic, French –*

- Mainframe and sash feature a double-wall design and multi-chambered construction for added strength.
- Dual internal/external weatherstripping on the sash ensures optimal energy efficiency.
- Precision-engineered tandem roller system ensures easy and quiet door operation.
- Heavy-duty extruded aluminum screen features four adjustable rollers for smooth gliding.
- Available in 2-, 3-, and 4-panel configurations.
- Choose from a variety of solid colors, woodgrain options, hardware finishes, and grid patterns to complement your Sheffield Windows.



# FRAMEWORKS® Color Collection

## Colors and Finishes

Sheffield Windows are available in a wide array of beautiful colors and natural-looking wood finishes to lend style and refinement to your home – both inside and out.

### Interior Choices

With subtle sophistication, FrameWorks interior finishes convey a warm and welcoming ambiance while beautifully reflecting your personal taste. Interior selections include White and Beige, as well as laminate woodgrains in White, Rich Maple, Light Oak, Dark Oak, Foxwood and Cherry.



White<sup>¥</sup>

Beige<sup>¥</sup>

White Woodgrain<sup>¥¥</sup>

Rich Maple

Light Oak

### Exterior Choices

Whether you prefer windows that command attention or beautifully blend in, FrameWorks exterior colors let you customize the appearance of your home with refined style. Exterior choices include White and Beige, as well as special finishes in Black, Architectural Bronze, American Terra, Hudson Khaki, Desert Clay, Sand Dune, English Red, Forest Green, Silver and Castle Gray.



Dark Oak

Foxwood

Cherry



White<sup>¥</sup>

Beige<sup>¥</sup>

Black

Architectural  
Bronze

American  
Terra

Hudson  
Khaki



Desert  
Clay

Sand  
Dune

English  
Red

Forest  
Green

Silver

Castle  
Gray

<sup>¥</sup> Extruded solid color.

<sup>¥¥</sup> White woodgrain is available with a beige base only.

## FRAMEWORKS®

BEAUTIFUL WINDOWS. INSIDE AND OUT.

Ultra-premium exterior colors are achieved with a cutting-edge polyurethane coating technology incorporating heat-reflective pigments to ensure a remarkable strong, fade-resistant and highly weatherable finish that's easy to clean.

## Your Assurance of Quality



The American Architectural Manufacturers Association is internationally recognized for the development of stringent performance standards. Every window and door that boasts AAMA certification undergoes extensive independent testing for resistance to water leakage, air pressure, and impact.



American Society for Testing and Materials

The American Society for Testing and Materials (ASTM) is a non-profit organization that provides a forum for the development and publication of voluntary consensus standards for materials, products, systems and services. ASTM standards serve as a basis for manufacturing, procurement and regulatory activities.



National Fenestration Rating Council

CERTIFIED

The National Fenestration Rating Council (NFRCC) establishes test criteria that set the standard for performance ratings of window and door products. These consistent ratings provide accurate information on the energy performance of windows, doors and skylights.

# Decorative Options

## Grid Options

Designer grids lend an added measure of style and dimension to your windows. All grids are enclosed within the insulated glass unit for easy cleaning. Choose from our selection of beautiful grid profiles and patterns to design the ideal window for your home:

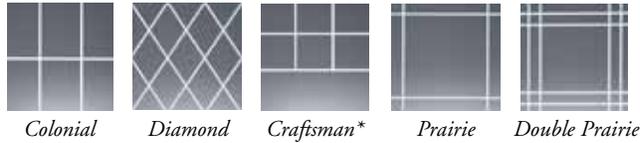
*Flat Grids* – available in Colonial, Diamond, Craftsman, Prairie and Double Prairie patterns

*Contoured Grids* – available in Colonial, Prairie and Double Prairie patterns

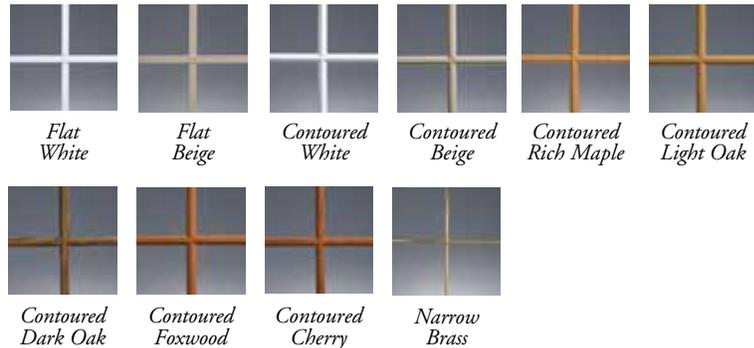
*Narrow Brass Grids* – available in a Colonial pattern

\*Available in operating and fixed-lite casements.

### Grid Patterns:

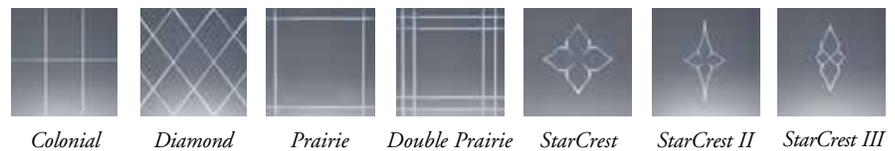


### Grid Profiles:



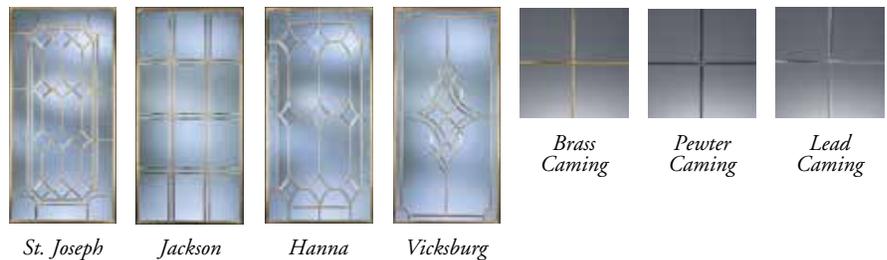
## V-Grooved Cut Glass

Add a cut or polished V-grooved glass pattern to your window for the perfect touch of elegance.



## Authentic Beveled-Leaded Glass

These options add personality and curb appeal to any home. All leaded glass is crafted using hand-cut glass, crystal bevel clusters, and hand-soldered camings. Available in four attractive glass styles to suit your architectural décor. Select a coming metal to match your taste – brass, pewter, or lead.



*Aside partners with objective, third-party organizations that continuously test our products and verify that we meet the highest standards of performance, quality, value and safety.*



The Insulating Glass Certification Council (IGCC) is a non-profit organization jointly established in 1977 by manufacturers, consumers, specifiers, and others concerned with the quality and performance of insulating glass units. IGCC sponsors and directs an independent, true third-party certification program. Periodic accelerated laboratory tests, per American Society for Testing and Materials (ASTM) specifications, and unannounced plant quality audits and inspections assure the quality and performance of sealed insulating glass products.



The advanced components and design used in Sheffield Windows exceed all criteria required by the ENERGY STAR program. The ENERGY STAR program is a joint venture between the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (U.S. DOE) designed to encourage homeowners to purchase energy-efficient products. Using less energy in our homes reduces the amount of CO<sub>2</sub> emissions released into the atmosphere from burning fossil fuels such as coal, oil and natural gas.

# Sheffield®

*The Beauty You See . . .  
Is Just Part of the Sheffield Story.*



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