

# FFORTIS SERIES®

*An Elite Window Series  
Exclusively from*

**Vytex**windows  
Clearly, a Cut Above™



## **Why Choose Vytex®?**

*Quality, style, and savings deliver real value—VytexValue™*

Only Vytex Windows gives you Cut Above™ savings and style, with state-of-the-art energy-saving technologies that decrease your energy costs and custom design options that enhance the beauty and value of your home.



The Vytex **Fortis** Series is one of the *world's most efficient* window systems; and includes the most advanced features and technologies available. **Fortis** Series windows are manufactured from the highest-grade materials and tested to meet or exceed industry standards. They're virtually maintenance-free, and will keep their like-new beauty and performance year after year.



# Vytexwindows | Fortis Series®

## DOUBLE-HUNG

### features

Welded sash and frame corners means durability and dependability

Special formula PVC never needs painting, makes cleaning a snap, and prevents scratching or denting

Both sashes tilt in for easy cleaning

Patent pending Stainless Steel Constant Force balance system allows easy, fingertip window operation

Integral interlock keeps windows closed tight for added security and weatherproofing

VyCore™ Foam insulation in frame and sash provides maximum insulating performance

Triple weatherstripping at all sealing locations decreases air and water infiltration

Elegant, sculpted exterior for superior curbside appeal

Full 7/8" sealed Insulated Glass Unit for increased insulating power

Tight, mortise-cut sill dam wall adds structural integrity and decreases air and water infiltration

True sloped sill with interlocking sash provides improved water drainage

ThermaCore™ composite reinforcement in meeting rails adds strength & reduces thermal conductivity

DP R-50 Rating—171 mph wind load (180% stronger than industry minimum)



#### MORTISED SILL DAM WALL



Mortised, double-walled sill dam extends into the jamb for added structural integrity.

#### CONSTANT FORCE BALANCES



Stainless Steel Inverted Constant Force Balance System allows operation up to 50% easier than other balance systems.

#### SILL/SASH INTERLOCK



Interlocking sill/sash provides added resistance against wind load.



## THINKING GREEN?

Vytex's Envirosealed™ energy-efficient windows can lower energy bills and ensure a greener future for the planet. Envirosealed's DuraTex™ warm edge spacer technology offers:

- **Improved comfort**—Encapsulated air chambers keep homes warmer in the winter and cooler in the summer.
- **Guaranteed lower energy bills**
- **Reduced environmental impact**—Improve the environment indoors and out by reducing greenhouse gas emissions.

enviro  sealed  
TECHNOLOGY





## Vytexwindows | Fortis Series®

### SLIDER

#### features

Welded sash and frame corners means durability and dependability

Special formula PVC never needs painting, makes cleaning a snap, and prevents scratching or denting

Both sashes lift out for easy cleaning

Integral interlock keeps windows closed tight for added security and weatherproofing

VyCore™ Foam insulation in frame and sash provides maximum insulating performance

Triple weatherstripping at all sealing locations decreases air and water infiltration

Brass rollers provide long-lasting, reliable operation

Elegant, sculpted exterior for superior curbside appeal

Full 7/8" sealed Insulated Glass Unit for increased insulating power

Available in two-lite and three-lite configurations

ThermaCore™ composite reinforcement in meeting rails adds strength & reduces thermal conductivity

DP R-35 Rating—143 mph wind load (150% stronger than industry minimum)



#### BRASS ROLLERS



Brass rollers allow effortless sash operation.

#### EXTERIOR MAINFRAME



Beautiful exterior mainframe adds curbside appeal to your home.

#### INTERLOCKING SASHES



Integral interlock keeps windows tightly closed for added security and weatherproofing.



Vytex **Fortis** Series two-lite slider windows open easily from both sides. Our two-lite sliders are engineered to operate smoothly time after time, year after year.



Our three-lite slider windows give you a wide-open view and slide easily on brass rollers. They complement the decor of any style home.



Standard Fiberglass Screen    VyClear™ Insect Screen

### Optional VyClear™ Screens

Designed to maximize your outlook by making the view sharper and more brilliant. Think of it as “High Definition” fiberglass insect screening.



## Vytextwindows | Fortis Series®

### CASEMENT & AWNING

#### features

Welded sash and frame corners means durability and dependability

Special formula PVC never needs painting, makes cleaning a snap, and prevents scratching or denting

Casement windows open to a 90-degree angle, allowing easy cleaning

Low-profile, single lever, multi-point locking system for secure and easy operation

VyCore™ Foam insulation in frame and sash provides maximum insulating performance

Elegant, sculpted exterior for superior curbside appeal

Full 1" sealed Insulated Glass Unit for increased insulating power

DP C-65 Rating—195 mph wind load (200% stronger than industry minimum)



#### OPERATING HARDWARE



Casement windows open to a 90-degree angle, allowing easy cleaning.

#### MULTI-POINT LOCKING SYSTEM



Low-profile, single lever, multi-point locking system for secure and easy operation.

#### CASEMENT HANDLES



Folding handle offers smoother, more contemporary, integrated look when nested. Reduces interference with blinds and drapery.





Casements offer a wide viewing area with maximum ventilation. They add character to the decor of your home. They're stylish and unsurpassed in beauty and durability. The Vytex Casement Series features a low-profile folding handle, full 90-degree opening for easy cleaning, and enhanced security with a multi-point locking mechanism.





## Vytexwindows | Fortis Series®

### BAY & BOW WINDOWS



#### *features*

Bow windows available in three, four, five, and six-lite configurations

Bay windows constructed with double-hung or casement end units

1/4" all-threaded steel rods between struts tie head and seat boards together for added strength

Insulated seat board helps increase energy savings

Bay & Bow window interiors feature rich, hand-selected birch or oak veneer, ready for paint or stain

#### MULLION CONSTRUCTION



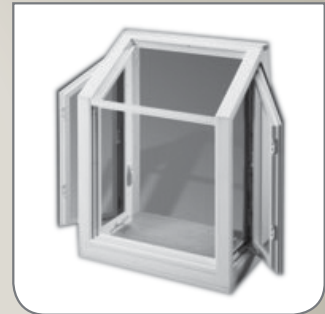
1/4" all-threaded steel rods between struts tie head and seat boards together for added strength.

#### BIRCH & OAK VENEER



Bay & Bow window interiors feature rich, hand-selected birch or oak veneer, ready for paint or stain.

#### GARDEN WINDOWS



**Fortis** garden windows add a bright, new dimension to window design.



Fortis Bay & Bow windows are a masterpiece of energy-efficiency. Unique construction makes it easy for you to maintain the comfort level inside your home in every season. And because Fortis Bay & Bow windows are so durable, your home's new look will last a lifetime.



*Configuration shown with picture window center lite*



# Vytextwindows | Fortis Series®

## GLASS OPTIONS

GLASS OPTIONS

Only the Fortis Series offers you a choice of two complete *high-performance*, energy-saving glass packages:

### Energy Saver Plus™

**R-4**

Double-paned with one pane of high-performance Low-E glass.

Argon gas-filled insulated glass unit (IGU).

VyCore™ Foam insulated frame and sash.

DuraTex™ Warm Edge Spacer System.

### Energy Saver R-5™

**R-5**

Double-paned with two panes of high-performance Low-E glass.


Argon gas-filled insulated glass unit (IGU).

VyCore™ Foam insulated frame and sash.

DuraTex™ Warm Edge Spacer System.

Vytext Low-E glass regulates your home's temperature to help keep you cool when it's hot and warm when it's not. Can't bear the heat? Can't stand the cold? No worries—inside, life is good. Get comfortable—it's time for your glass to go to work.


 <b>Vytext Corporation</b> Double Hung LowE FFS – Energy Saver Plus Vinyl Frame * Double Glazed * Argon * No Grids	
<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
<b>0.26</b>	<b>0.29</b>
<b>ADDITIONAL PERFORMANCE RATINGS</b>	
Visible Transmittance	Air Leakage (U.S./I-P)
<b>0.53</b>	_____
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>	

 <b>Vytext Corporation</b> Double Hung LowE RS IS FFS – Energy Saver Vinyl Frame * Double Glazed * Argon * No Grids	
<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
<b>0.22</b>	<b>0.28</b>
<b>ADDITIONAL PERFORMANCE RATINGS</b>	
Visible Transmittance	Air Leakage (U.S./I-P)
<b>0.49</b>	_____
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>	



## A New Standard

Introducing TripleSilverLoE™, the ultimate performance glass. It just might make all other low-e glass obsolete. TripleSilverLoE™ delivers the ideal balance of solar control and high visibility. And it provides the highest levels of year-round comfort and energy savings, making it the perfect glass no matter where you live. The secret? An unprecedented 3 layers of silver. For your next windows, go beyond ordinary low-e glass. Choose TripleSilverLoE™, the new standard.

Inside glass temperatures	outside temp	
	-20°F	20°F
Single-pane	0°	31°
Double-pane clear	37°	51°
Ordinary low-e	47°	58°
 Vytex TripleSilver LoE™	52°	61°

### Inside Glass and Outside Temperatures

The table (below) compares the room-side center of glass temperatures of four different glass types against two different weather conditions.

The superior insulating capability of Vytex TripleSilverLoE™ is a key factor in the construction of comfortable windows for cold climates. The dramatic comfort improvement from windows with warm glass surfaces also means the relative humidity of the indoor air can be controlled and maintained properly. Proper humidity levels (not too much, not too little) will improve comfort and promote a healthier living environment.



In thermal tests, Vytex® Fortis® Series ThermaCore™ **outperforms** Aluminum and Steel. Vytex Windows' new ThermaCore™ Reinforcement provides the same advantages as metal reinforcements, but without the constraints that steel and aluminum reinforcements have.

Fortis® ThermaCore™  
Reinforcement performs  
**730 times**  
*better* than Aluminum



Competitor window with Aluminum



**FORTIS®** ThermaCore™

Fortis® ThermaCore™  
Reinforcement performs  
**191 times**  
*better* than Steel



Competitor window with Steel



**FORTIS®** ThermaCore™

## Energy Saver R-5™ Glass

Introducing Energy Saver R-5 Glass from Vytex—the next generation in insulated glass units. Energy Saver R-5 Glass is engineered to achieve the lowest possible U-values and achieves the thermal efficiency of a triple pane window in a dual pane unit. Energy Saver R-5 Glass can be cleaned with common household glass cleaners and is durable and scratch resistant.



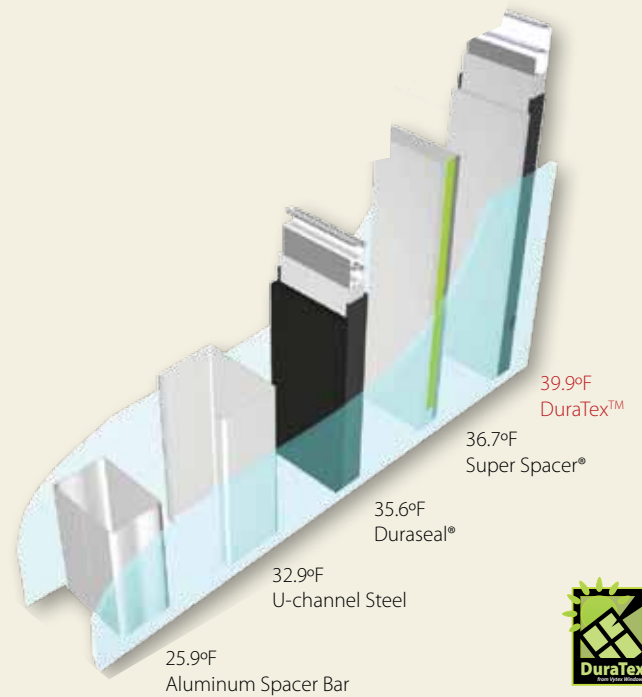
Improves Nighttime and cool weather insulating performance.



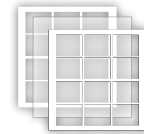
Better insulation saves energy and money!

## Spacer Comparison

The Vytex DuraTex™ spacer system outperforms all other spacer systems



## Laminated Glass



### VyGuard™ Laminated Glass from Vytex

*the latest technology in glass safety and security!*

**Safety**—The PVB interlayer absorbs the energy of a sudden impact and resists penetration, minimizing the risk of injuries and improving home security. Although the glass may break, the glass fragments remain firmly bonded to the interlayer.

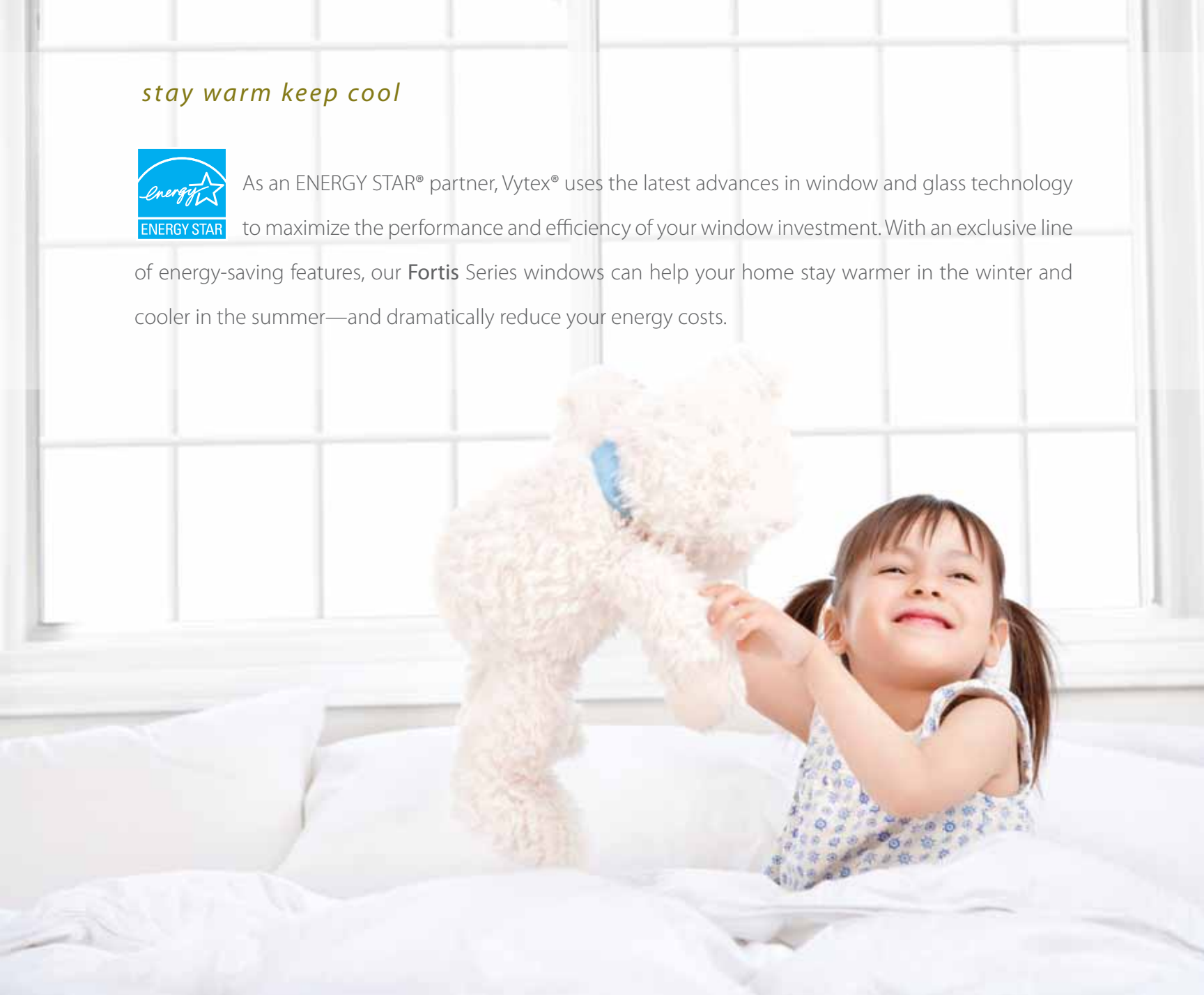
**Sound Reduction**—VyGuard absorbs sound and reduces sound transmission by as much as 30% over a typical insulated glass unit.

**Environmental Protection**—In the event of a severe storm, VyGuard helps protect your home from interior damage.

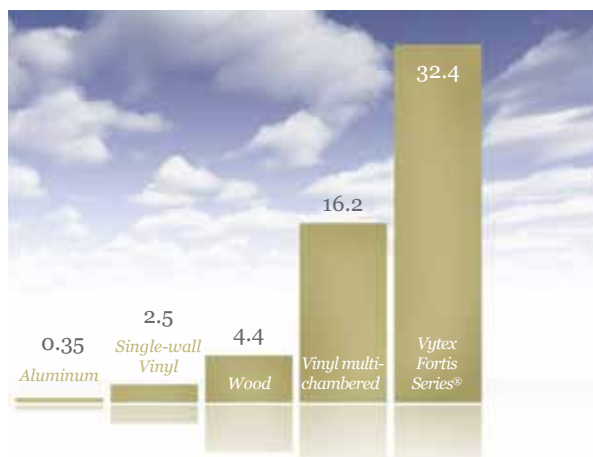
stay warm keep cool



As an ENERGY STAR® partner, Vytex® uses the latest advances in window and glass technology to maximize the performance and efficiency of your window investment. With an exclusive line of energy-saving features, our **Fortis Series** windows can help your home stay warmer in the winter and cooler in the summer—and dramatically reduce your energy costs.

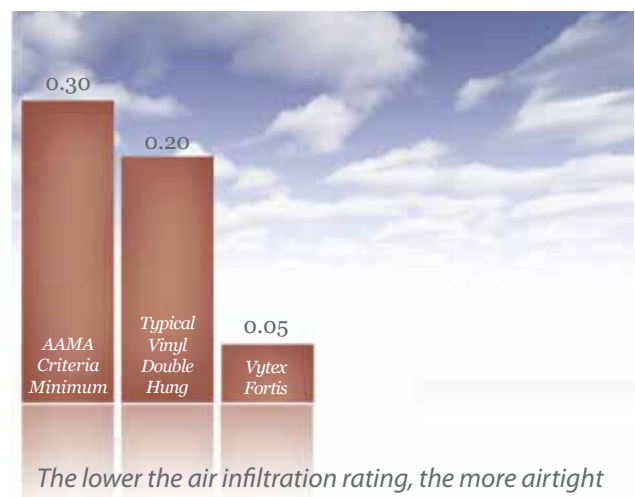


R-value for Window Frame Materials



The higher the R-value, the higher the insulation value of the window—and the greater the comfort and energy efficiency of your home! (Note: Data represents performance for a 12" piece of frame material.)

Air Infiltration Ratings



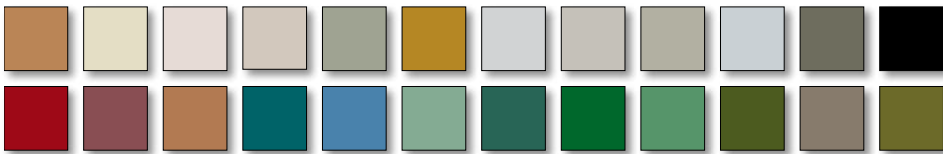
The lower the air infiltration rating, the more airtight the window performs.



## COLOR OPTIONS

### EXTERIOR COLORS

**VyCoat™ Exterior Coating System**  
 Add durability and long-lasting beauty with this environmentally friendly, low-maintenance color coating system.



*(colors are as true as printing inks allow and may differ from actual product colors.)*

### OPTIONAL INTERIOR WOOD GRAIN LAMINATE



PAINTABLE/STAINABLE PINE



WHITE

BEIGE

### INTERIOR COLORS

Special formula PVC never needs painting, makes cleaning a snap, and prevents scratching or denting.

**Available in white and beige.**



# GRID DESIGN

## DESIGNER GRID

The beauty of cut glass—rainbows of colors, illustrations of shape and depth. Now you can have that elegant look of traditional cut glass. Windows, patio doors, and transoms can all be enhanced in a variety of styles and patterns to match your home's architectural style.



DIAMOND



PRAIRIE



COLONIAL

*Additional patterns available*

## TRADITIONAL GRIDS



DIAMOND



PRAIRIE



COLONIAL

*Additional patterns available*

## GRID DETAILS

*for traditional grids*



FLAT



CONTOUR



SIMULATED DIVIDED LITE (SDLs)

# The Industry's *strongest* WARRANTY and *highest quality* TESTING PROCESS

## OUR WARRANTY

No more worries. Your windows are covered forever.\* Look at the terms of our Limited Lifetime Warranty. Lifetime coverage for the sash and frame, and lifetime coverage for the locks and other hardware. But that's not all. Vytex **Fortis** Series windows come with a lifetime glass breakage warranty as well. A warranty this strong demonstrates Vytex's confidence and it's your assurance of value now and in the future.

*\*Covers material only. Labor and delivery are not included.*

## OUR TESTING FACILITY

Our certified on-site testing facility ensures our windows perform at the highest industry fenestration standards.







Vytex Windows is a two-time Crystal Achievement Award Winner from Window & Door Magazine as well as a consistent member of the "Top 100 Manufacturers". In 2012, Vytex was recognized for "Most Innovative Plant".

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