

# ThermoFit

Premium Custom Windows & Doors

Replacement Windows  
and Doors that **fit** by

 **Thermo-Tech**  
*Premium Windows and Doors*



Thermo-Fit Premium Custom Windows & Doors  
by Thermo-Tech® are designed to fit your lifestyle for  
low-maintenance, durability, comfort and energy savings.

# Custom Fit To Fit Your Life.



Thermo-Fit custom replacement vinyl windows and patio doors from Thermo-Tech are expertly designed and manufactured with premium materials to provide energy savings, exceptional safety and security, and comfort through all the seasons. They're also unbelievably easy to operate and clean and require very little maintenance for decades of beauty and performance.



## Green Building Solutions

Thermo-Fit windows and patio doors are made of vinyl, a sustainable, environmentally friendly material that lasts. Building products made of other materials, like wood, may seem to be greener solutions, but in reality they are less energy efficient. They also break down many times faster than vinyl, which means they need to be replaced more often – requiring more energy consumption. Plus, our products need no additional paint, stain, stripper, thinner or other solvents. Completely recyclable, vinyl simply makes environmental sense.



Thermo-Fit, like all of Thermo-Tech's windows and doors, meet or exceed the requirements of Energy Star rating – a very significant part of meeting LEED certification standards as well as other green building rating systems.

## Energy Efficiency

Thermo-Tech helps reduce your home's energy use with high-performance technology built into every Thermo-Fit window and patio door. Multiple chambers inside the frame trap air for superb insulation against heat loss in the home. LoE glass options surpass Energy Star ratings and provide superior protection for your home's interior, including fading caused by the sun.

## Reliability/Flexibility

Thermo-Fit windows and patio doors are designed to fit your home and you. With multiple styles, custom shapes, maintenance-free wood laminates or 3 vinyl colors, Thermo-Fit windows and patio doors accommodate your design preferences, your project, your budget and your lifestyle.





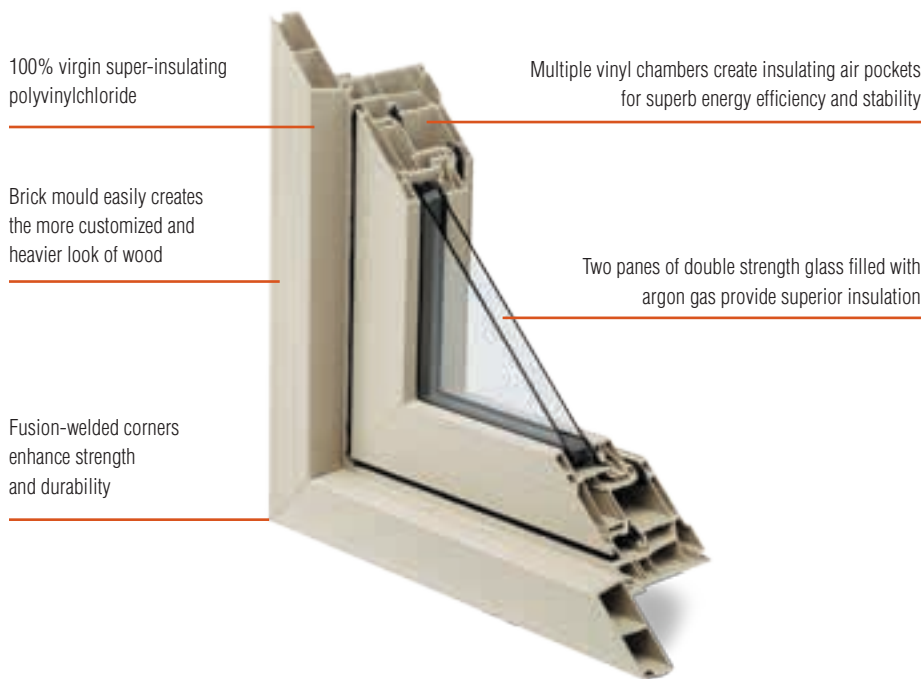
## Quality materials and superb manufacturing make Thermo-Fit the best replacement vinyl windows & patio doors money can buy!

Thermo-Fit windows and patio doors come standard with white vinyl, matching hardware and double-pane insulated LoE<sup>2</sup>™ 272/Argon glass. Combine other options to create a truly custom solution to fit your specific needs and lifestyle.

### It Starts With Insulated Glass

Choose our standard double-pane insulated LoE<sup>2</sup>™ 272/Argon glass or upgrade to LoE<sup>3</sup>™ 366/Argon heat-reflecting glass for even more insulating power and optimal thermal performance. LoE<sup>3</sup>™ 366/Argon heat-reflecting glass delivers the ideal balance of solar control, thermal performance, high visibility and the highest levels of energy saving in a double-pane insulated glass unit. Plus, LoE<sup>3</sup>™ 366/Argon provides excellent fade protection, blocking 11% more ultra violet light than standard LoE<sup>2</sup>™ 272 glass.

Also available with LoE<sup>3</sup>™ 366/Argon/I89 for even better thermal performance.



## EnergyGuard<sup>®</sup>

by Thermo-Tech

### HIGH-PERFORMANCE TRIPLE-PANE WINDOW

For maximum energy savings and optimal sun protection, step up to Energy Guard triple-pane insulated glass.

*Available in casement, awning, fixed-casement and direct-set picture windows and shapes.*



## Thermo-Tech<sup>®</sup> WARM-EDGE ADVANTAGE



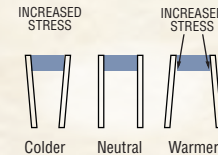
For the longest-lasting comfort and energy savings all Thermo-Tech insulated glass incorporates warm-edge Intercept<sup>®</sup> glass spacer systems.

- For added insulating value and condensation resistance no other type of insulating (thermal) design brings you these combined advantages
- Patented U-shape construction extends window life
- Best Argon retention keeps insulating gas in windows
- Energy Star<sup>®</sup> performance
- Recessed below the sightline so all you ever see are beautiful windows

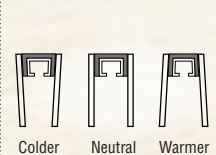
### DURABILITY ADVANTAGE

Our warm-edge spacer flexes instead of the sealant during temperature changes, so it resists seal failure.

### OTHERS



### OURS



## Glass Options

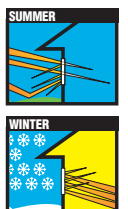
All Thermo-Fit windows and patio doors come with standard LoE<sup>2</sup>™ 272/Argon double-pane, double-strength insulated glass.

### GLASS OPTION UPGRADES INCLUDE:

- Ultimate High-performance LoE<sup>3</sup>™ 366/Argon/I89
- Premium High-performance LoE<sup>3</sup>™ 366/Argon
- Energy Guard PLUS Triple LoE<sup>2</sup>™ 272/Argon
- Energy Guard Triple LoE<sup>3</sup>™ 366/Argon
- Grids between the glass
- Obscure
- Tempered safety glass
- Grey and bronze tint

## Why LoE<sup>3</sup>™ 366/Argon or LoE<sup>3</sup>™ 366/Argon/I89 Glass?

- Lowers energy costs = saving on heating bill
- Blocks 95% of harmful UV rays = reduced fading on carpet, furniture, etc
- Year round comfort = cooler in summer, warmer in winter
- Reduced condensation
- Average heat loss reduction compared to standard double-pane glass is 50%
- Elevates dual panel performance to R4 plus with LoE<sup>3</sup>™ 366/Argon/I89



## Exterior Frame Options

In addition to standard white vinyl, Thermo-Fit windows and patio doors are available in two other exterior colors to match virtually any home style or color.

White

Tan

Sandlewood

**NEW**

## Trimline Brick Mould

Easily add a custom look with our new Trimline brick mould featuring a more traditional contoured face.



Available in white, tan and sandlewood

### FEATURES

- 1-1/2" or 2" traditional brick mould
- Traditional contoured face
- Snap on face provides easy access for fastening
- Finished look conceals fasteners
- Durable multi-chambers with welded corners match the strength of our windows
- Available with sill nose (as shown)

## Interior Wood Laminate Colors

Get the warmth and classic beauty of wood with the comfort and ease-of-maintenance of vinyl. At Thermo-Tech, we never stop improving our vinyl windows and doors. We always start with expert design, durable construction and maintenance-free 100% virgin vinyl. But it's the finishing touches that are turning heads – like our wood laminates featuring the warmth of wood and the maintenance-free insulating power of vinyl.

Light Oak

Dark Oak

Available on our Classic Patio Doors, Fixed Casements, Direct-Set Picture Windows, Double-Hungs, Sliders, Casements, and our Geometric and Radius Windows.

Available in White or Sandlewood exterior.



Light Oak laminate shown with Sandlewood hardware.

## Custom-Sized Replacement Frame Systems

### MORE OPTIONS FOR A TRULY CUSTOM FIT!

Thermo-Fit Premium Custom Windows & Doors are designed to install easily without disturbing paint, siding or stucco.

- 1 Custom fit brick mould with nailing flange
- 2 Custom fit replacement brick mould
- 3 Custom fit with nailing flange
- 4 Custom fit replacement insert



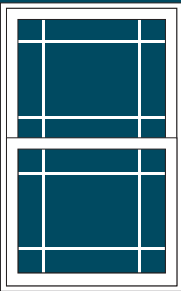
## Distinctive Grid Styles

### FLAT OR CONTOURED GRIDS CONFIGURATIONS

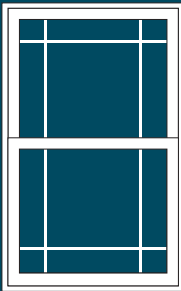
Flat or contoured grids between the glass are available in a variety of configurations and colors to match our vinyl windows and doors.



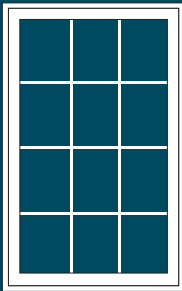
### Grid Patterns



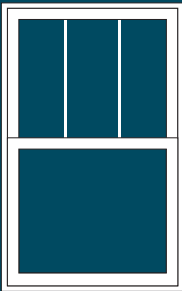
Prairie



Queen Ann



Colonial



Plaza

## Custom Hardware Colors

Heavy-duty standard low-profile folding hardware is available in white, tan or sandlewood to match your window color. Or choose optional metallic finishes for a more elegant look.



### STANDARD HARDWARE COLORS



White



Tan



Sandlewood

### OPTIONAL METALLIC HARDWARE COLORS



Brass



Antique Brass



Oil-Rubbed Bronze

Brass, Antique Brass, Oil-Rubbed Bronze available on Double-Hung, Single-Hung, Casement and Slider windows.



Dark Oak laminate shown with Sandlewood hardware.



# Double-Hung & Single-Hung Windows

Looking for a window that slides up and down without a lot of effort? Want a traditional old style window updated for today? Get it all with energy-efficient Thermo-Fit Double and Single-Hung windows from Thermo-Tech.

## FEATURES

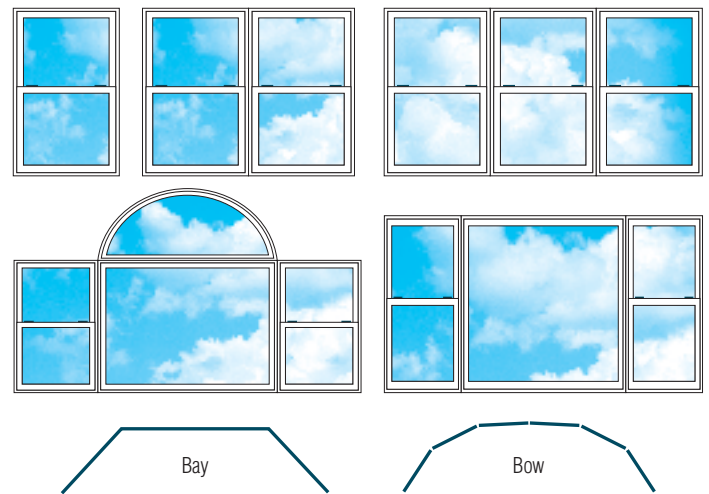
- Double-Hung both top and bottom sashes tilt in
- Flush mounted tilt latches in both Double and Single-Hung
- Single-Hung top glass is fixed into main frame and bottom sash tilts
- Smooth gliding balance system uses constant force coil that needs no adjusting and little or no maintenance
- Die-cast lock and keeper hardware draws in the sash for secure and weather tight locking
- Slope sill directs water runoff even in a driving rain
- Dual weather-stripped interlocks at the meeting rail and double layered weather-stripping on the sashes maximize resistance to air, water and dust infiltration
- See other options on pages 3-5

## MINIMUM & MAXIMUM SIZES

WINDOW STYLE	MAX SQ. FT. GLASS & FRAME	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
Single-Hung	24 sq. ft.	11 7/8" x 17"	55" x 84"
Double-Hung	21 1/2 sq. ft.	11 7/8" x 19 1/2"	55" x 84"



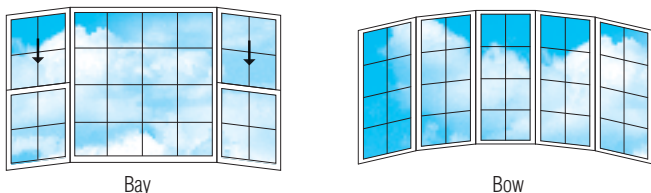
## CONFIGURATIONS



# Bay & Bow Windows

Thermo-Fit bow and bay windows arrive fully assembled and ready to install. They come complete with jamb extensions, head and seat board and cable support system. Choose a bay window configuration with 30° or 45° angles or choose a bow window with a 4-lite, 5-lite or 6-lite configuration. Always charming, bow and bay windows accommodate a variety of combinations with double-hung, single-hung, casement, fixed casement and direct-set window units.

## CONFIGURATIONS



## Casement Windows

Precisely engineered, Thermo-Fit Casement window systems ensure a tight, energy-efficient seal from top to bottom – and that's important when winter winds begin howling. Plus, maintenance is a breeze. The hinged side of the sash glides away from the jamb making it possible to reach between the sash and the window frame for easy cleaning.

### FEATURES

- Multi-point locking hardware
- Single lever lock mechanism that locks in various locations for maximum security
- Easy cleaning from the inside with the exception of windows with egress hardware
- Triple-layered weather stripping
- Heavy-duty standard low-profile folding hardware
- All hardware comes color matched to the exterior window color
- Three additional custom hardware colors available: Brass, Oil-Rubbed Bronze and Antique Brass
- Laminate windows come standard with Sandlewood hardware
- See other options on pages 3-5



Also available as  
**Thermo-Tech®  
ENERGY GUARD &  
ENERGY GUARD PLUS  
Super High-Performance  
Window.**

See page 10 for performance data.



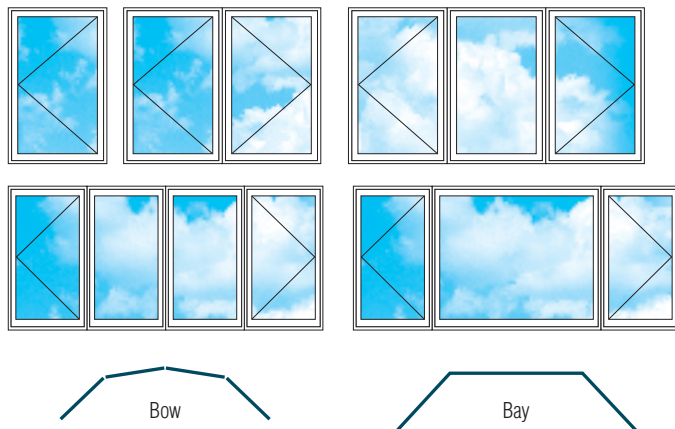
### MINIMUM & MAXIMUM SIZES

WINDOW STYLE	MAX SQ. FT. GLASS & FRAME	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
Casement	18 sq. ft.	15 1/2" x 19 3/8"	42" x 75 1/2"
Casement Fixed/Picture	42 sq. ft.	12 1/2" x 12 1/2"	96" x 96"

### ENERGY GUARD TRIPLE PANE

Casement	15 sq. ft.	15 1/2" x 19 3/8"	36" x 72"
Casement Fixed/Picture	35 sq. ft.	12 1/2" x 12 1/2"	96" x 96"

### CONFIGURATIONS



## Awning Windows

Awning windows are a great choice for today's homes. Hinged on each side, Thermo-Fit Awning windows swing out and up for easy ventilation. With two locking handles, they close extremely tight providing great protection from the wind and rain and preventing air and water infiltration.

### FEATURES

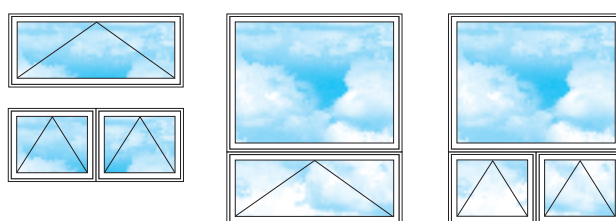
- Two locking handles for added security
- Triple layered weather stripping
- Heavy-duty standard low-profile folding hardware
- All hardware is color matched to the exterior window color
- Scissor type hardware for smooth operation and tight weather seal
- Laminate windows come standard with Sandlewood hardware
- See other options on pages 3-5

Also available as  
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Window.**

See page 10 for performance data.



### CONFIGURATIONS



### MINIMUM & MAXIMUM SIZES

WINDOW STYLE	MAX SQ. FT. GLASS & FRAME	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
Awning	14 sq. ft.	19 1/2" x 15 1/2"	48" x 42"

## Horizontal Slider Windows

With smooth and easy operation, Thermo-Fit Horizontal Slider windows roll easy and seal tight.

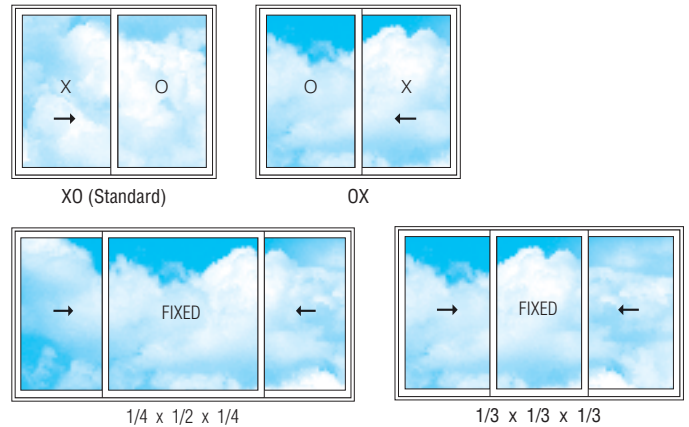
### FEATURES

- Dual brass rollers ensure smooth and easy operation of the sash
- Track lock system locks the window closed or locks the sash at 3" open for ventilation
- Die cast lock and keeper for added security
- Triple layered weather stripping provides maximum resistance to air, water and dust infiltration
- See other options on pages 3-5

### MINIMUM & MAXIMUM SIZES

WINDOW STYLE	MAX SQ. FT. GLASS & FRAME	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
2- Lite Slider	30 sq. ft.	19 7/8" x 10 1/16"	105" x 72"
3- Lite Slider (Equal)	40 sq. ft.	29 7/8" x 10 1/16"	144" x 72"
3- Lite Slider (1/4-1/2-1/4)	40 sq. ft.	39 3/4" x 10 1/16"	144" x 72"

### CONFIGURATIONS



Slide is viewed from the exterior.

## Direct-Set Picture Windows

Direct-set picture windows, our most versatile stationary option, can stand alone or adjoin double-hung, single-hung or slider windows in impressive multiple-wide units. Transoms above them add an elegant touch.

### MINIMUM & MAXIMUM SIZES

WINDOW STYLE	MAX SQ. FT. GLASS & FRAME	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
Direct-Set Picture Windows	42 sq. ft.	10" x 10"	96" x 96"

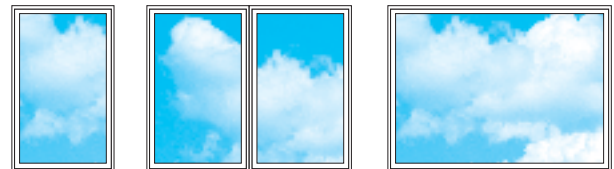
### ENERGY GUARD TRIPLE PANE

Direct-Set Picture Windows	35 sq. ft.	10" x 10"	96" x 96"
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Also available as  
**Thermo-Tech®  
ENERGY GUARD &  
ENERGY GUARD PLUS  
Super High-Performance  
Window.**  
See page 10 for  
performance data.

### CONFIGURATIONS



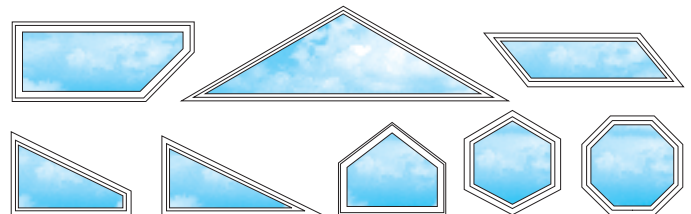
## Geometric & Radius Windows

Custom size shapes enhance your own sense of style with the versatility of vinyl in a broad range of attractive shapes. They provide an aesthetically appealing energy-efficient and low maintenance solution. Each style can be matched and mulled with all of Thermo-Tech's window types for single and multiple window applications.

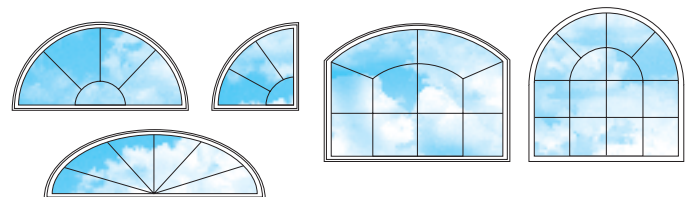
Select a geometric or radius window when you want to frame a beautiful exterior view.

Also available as  
**Thermo-Tech®  
ENERGY GUARD &  
ENERGY GUARD PLUS  
Super High-Performance  
Window.**  
See page 10 for  
performance data.

### GEOMETRIC WINDOW CONFIGURATIONS



### RADIUS WINDOW CONFIGURATIONS





# Sliding Patio Doors



## Slim Line

The sleek lines and slim stiles and rails of the Thermo-Fit Slim Line Sliding Patio Doors offer a contemporary and upscale look with a maximum viewing area. Slim Line Sliding Patio Doors are engineered for superior performance, durability and energy efficiency with high-performance insulated glass providing both comfort and energy savings.

**FEATURES**

- Dual-point locking system
- Durable stainless steel adjustable ball bearing rollers
- Matching frame for sidelights (*Classic series only*)
- Reinforced sashes
- Stainless steel roller track
- Optional keyed locking system
- Aluminum anodized scuff resistant threshold
- Premium aluminum adjustable screen with fiberglass mesh

**DOOR COLORS**

**Slim Line Patio door**

White, Tan and Sandlewood.

**Classic French Style Patio door**

Available in Light and Dark Oak interior laminates (2-lite patio doors only), White, Tan and Sandlewood. Laminates available with White and Sandlewood exterior colors and only.

**C-HANDLE COLOR OPTIONS**

**Slim Line Patio door**

White, Tan and Sandlewood

**Classic French Style Patio door**

White, Tan, Sandlewood, Brass, Antique Brass, Brushed Nickel and Oil-Rubbed Bronze

**GRIDS**

The profiled aluminum inner grids are matched to the door color and installed in the insulated air space between the panes of glass.

Prairie Grids      Colonial Grids

MINIMUM & MAXIMUM SIZES	
MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
59 1/2" x 79 1/2"	143 1/2" x 90"


## Classic French Style

Thermo-Fit Classic French Style Sliding Patio Doors have wider stiles and rails for more of an upscale look, enhancing the appearance and value of your home. Every door is engineered for superior performance and energy efficiency. Operation is superb via dual ball bearing adjustable rollers.

**CONFIGURATIONS**

Available in both Slim Line and Classic French

Available in Classic French only

WE SELL ENERGY STAR

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# Energy and Structural Performance Data

Thermo-Tech® Windows and Doors are thoroughly tested for structural and thermal performance to the most widely recognized national standards. This will ensure that our products will provide a lifetime of reliable, energy saving performance.

When shopping, make sure to compare structural and thermal performance ratings to ensure that you are purchasing reliable, energy-efficient windows.

Our products are structurally tested to the American Architectural Manufacturers Association (AAMA) window specifications. When comparing structural performance of windows look for the performance grade (PG). Performance grade is a window's resistance to wind and rain. The higher the PG rating, the better.

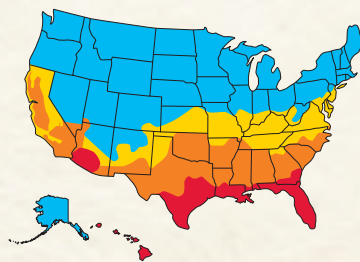
Look for the National Fenestration Rating Council (NFRC) label for an accurate method to compare a product's energy performance and also ensure the windows are Energy Star® compliant in your area.

Compare the U-Factor and the Solar Heat Gain Coefficient (SHGC) of the window. U-Factor is a measure of how well a window keeps heat inside a home or building in the winter. The lower the U-Factor, the greater the insulating value of the window. SHGC measures how well a window blocks heat caused by sunlight. The lower the window's SHGC, the less solar heat is allowed into the home by the window.



## ENERGY STAR® COMPLIANCE

The ENERGY STAR program was developed by the U. S. Department of Energy and the Environmental Protection Agency to help consumers identify products that save energy. Requirements for windows are tailored to meet the energy needs of the countries four different regions - Northern, North/Central, South/Central and Southern. ENERGY STAR windows must be rated, certified and labeled by the National Fenestration Rating Council (NFRC) for U-Factor and Solar Heat Gain Coefficient (SHGC).



Indicates ENERGY STAR compliance for appropriate glazing zone.

- **Northern**  
Mostly Heating
- **North/Central**  
Heating & Cooling
- **South/Central**  
Heating & Cooling
- **Southern**  
Mostly Cooling

Zone	U-factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.30	Any
North/Central	≤ 0.32	≤ 0.40
South/Central	≤ 0.35	≤ 0.30
Southern	≤ 0.60	≤ 0.27

<sup>1</sup> Btu/h.ft². °F

<sup>2</sup> Fraction of incident solar radiation

The lower the U-Value and the higher the R-Value, the better the window is at reducing heat loss.

### ULTIMATE HIGH PERFORMANCE LoE<sup>3™</sup> 366/Argon/189™ Double Insulated Glass with LoE<sup>3™</sup> 366/Argon on one glass surface and 189™ on interior surface

TYPE	GLASS TYPE	U-VALUE	R-VALUE	SOLAR HEAT GAIN NO/GRIDS	SOLAR HEAT GAIN W/GRIDS	VISIBLE LIGHT NO/GRIDS	VISIBLE LIGHT W/GRIDS	CONDENSATION RESISTANCE	U.S. ENERGY STAR ZONES NO/GRIDS	U.S. ENERGY STAR ZONES W/GRIDS
CASEMENT	LoE <sup>3™</sup> 366/Argon/189™	.23	4.35	.18	.17	.42	.38	45	All	All
HORIZONTAL SLIDERS	LoE <sup>3™</sup> 366/Argon/189™	.25	4.00	.22	.20	.50	.44	44	All	All
SINGLE-HUNG	LoE <sup>3™</sup> 366/Argon/189™	.25	4.00	.21	.19	.50	.44	44	All	All
DOUBLE-HUNG	LoE <sup>3™</sup> 366/Argon/189™	.25	4.00	.20	.18	.47	.42	44	All	All
DIRECT-SET PICTURE WINDOW	LoE <sup>3™</sup> 366/Argon/189™	.22	4.55	.24	.22	.56	.50	44	All	All
FIXED CASEMENT PICTURE WINDOW	LoE <sup>3™</sup> 366/Argon/189™	.22	4.55	.21	.19	.49	.44	44	All	All
AWNING WINDOW	LoE <sup>3™</sup> 366/Argon/189™	.24	4.17	.18	.17	.42	.38	44	All	All
SLIM LINE PATIO DOOR	LoE <sup>3™</sup> 366/Argon/189™	.24	4.17	.22	.19	.51	.45	43	All	All
CLASSIC FRENCH PATIO DOOR	LoE <sup>3™</sup> 366/Argon/189™	.26	3.85	.19	.17	.43	.37	46	All	All

### PREMIUM HIGH PERFORMANCE LoE<sup>3™</sup> 366/Argon Double Insulated Glass with LoE<sup>3™</sup> 366/Argon on one glass surface

TYPE	GLASS TYPE	U-VALUE	R-VALUE	SOLAR HEAT GAIN NO/GRIDS	SOLAR HEAT GAIN W/GRIDS	VISIBLE LIGHT NO/GRIDS	VISIBLE LIGHT W/GRIDS	CONDENSATION RESISTANCE	U.S. ENERGY STAR ZONES NO/GRIDS	U.S. ENERGY STAR ZONES W/GRIDS
CASEMENT	LoE <sup>3™</sup> 366/Argon	.27	3.70	.19	.17	.43	.39	57	All	All
HORIZONTAL SLIDERS	LoE <sup>3™</sup> 366/Argon	.29	3.45	.22	.20	.51	.46	55	All	All
SINGLE-HUNG	LoE <sup>3™</sup> 366/Argon	.29	3.45	.22	.20	.51	.45	55	All	All
DOUBLE-HUNG	LoE <sup>3™</sup> 366/Argon	.29	3.33	.21	.19	.48	.43	55	All	All
DIRECT-SET PICTURE WINDOW	LoE <sup>3™</sup> 366/Argon	.27	3.70	.24	.22	.57	.51	57	All	All
FIXED CASEMENT PICTURE WINDOW	LoE <sup>3™</sup> 366/Argon	.26	3.85	.22	.20	.51	.45	56	All	All
AWNING WINDOW	LoE <sup>3™</sup> 366/Argon	.27	3.70	.19	.17	.43	.39	56	All	All
SLIM LINE PATIO DOOR	LoE <sup>3™</sup> 366/Argon	.29	3.45	.22	.20	.52	.45	53	All	All
CLASSIC FRENCH PATIO DOOR	LoE <sup>3™</sup> 366/Argon	.30	3.33	.19	.17	.44	.38	56	All	All
BOTANICA GARDEN DOOR	LoE <sup>3™</sup> 366/Argon	.29	3.45	.19	.16	.44	.38	61	All	All

### HIGH PERFORMANCE LoE<sup>2™</sup> 272/Argon Double Insulated Glass with LoE<sup>2™</sup> 272/Argon on One Glass Surface

TYPE	GLASS TYPE	U-VALUE	R-VALUE	SOLAR HEAT GAIN NO/GRIDS	SOLAR HEAT GAIN W/GRIDS	VISIBLE LIGHT NO/GRIDS	VISIBLE LIGHT W/GRIDS	CONDENSATION RESISTANCE	U.S. ENERGY STAR ZONES NO/GRIDS	U.S. ENERGY STAR ZONES W/GRIDS
CASEMENT	LoE <sup>2™</sup> 272/Argon	.27	3.70	.28	.26	.48	.43	57	N, NC	N, NC
HORIZONTAL SLIDER	LoE <sup>2™</sup> 272/Argon	.30	3.33	.33	.30	.57	.51	54	N, NC	N, NC
SINGLE-HUNG	LoE <sup>2™</sup> 272/Argon	.30	3.33	.33	.30	.56	.50	55	N, NC	N, NC
DOUBLE-HUNG	LoE <sup>2™</sup> 272/Argon	.30	3.33	.31	.28	.53	.47	55	N, NC	N, NC, SC
DIRECT-SET PICTURE WINDOW	LoE <sup>2™</sup> 272/Argon	.27	3.70	.37	.33	.64	.57	56	N, NC	N, NC
FIXED CASEMENT PICTURE WINDOW	LoE <sup>2™</sup> 272/Argon	.27	3.70	.33	.29	.56	.50	56	N, NC	N, NC
AWNING	LoE <sup>2™</sup> 272/Argon	.27	3.70	.28	.26	.48	.43	56	N, NC	N, NC
SLIM LINE PATIO DOOR	LoE <sup>2™</sup> 272/Argon	.30	3.33	.33	.30	.57	.50	53	N, NC	N, NC
CLASSIC FRENCH PATIO DOOR	LoE <sup>2™</sup> 272/Argon	.30	3.33	.29	.25	.49	.42	56	N, NC	All
BOTANICA SWINGING GARDEN DOOR	LoE <sup>2™</sup> 272/Argon	.29	3.45	.28	.25	.48	.42	61	All	All

All tests conform to NFRC 100-2004, NFRC 200-2004, NFRC 500-2004 Procedures

## STRUCTURAL PERFORMANCE DATA

TYPE	SIZE TESTED	CLASS/PERFORMANCE GRADE	AIR INFILTRATION	WATER INFILTRATION	FORCED ENTRY
CASEMENT	30 x 72	LC - 50	.03cfm/ft2	12.00 psf	—
XO HORIZONTAL SLIDER	72 x 48	R - 40	.07cfm/ft2	6.06 psf	—
XOX 3-LITE HORIZONTAL SLIDER	108 x 60	LC - 30	.09cfm/ft2	4.60 psf	—
SINGLE-HUNG	40 x 72	R - 40	.07cfm/ft2	6.06 psf	—
DOUBLE-HUNG	48 x 72	R - 40	.02cfm/ft2	6.06 psf	—
DIRECT-SET PICTURE WINDOW	72 x 72	LC - 50	.01cfm/ft2	12.00 psf	—
FIXED CASEMENT PICTURE WINDOW	72 x 72	LC - 40	.01cfm/ft2	12.00 psf	—
AWNING	48 x 39	LC - 40	.03cfm/ft2	12.00 psf	—
SLIM LINE PATIO DOOR	72 x 84	R - 30	.02cfm/ft2	7.5 psf	Grade 25
CLASSIC FRENCH PATIO DOOR	72 x 84	LC - 40	.08cfm/ft2	7.5 psf	Grade 10
BOTANICA SWINGING GARDEN DOOR	72 x 82	R - 35	.05cfm/ft2	7.5 psf	Grade 25

## Energy Guard PLUS Triple Insulated Glass (Energy Star Most Efficient) Triple insulated glass with high-performance LoE<sup>2™</sup> 272/Argon on two glass surfaces

TYPE	U-VALUE	R-VALUE	SOLAR HEAT GAIN NO/GRIDS	SOLAR HEAT GAIN W/GRIDS	VISIBLE LIGHT NO/GRIDS	VISIBLE LIGHT W/GRIDS	CONDENSATION RESISTANCE	U.S. ENERGY STAR ZONES NO/GRIDS	U.S. ENERGY STAR ZONES W/GRIDS	U.S. ZONES ENERGY STAR MOST EFFICIENT NO/GRIDS	U.S. ZONES ENERGY STAR MOST EFFICIENT W/GRIDS
CASEMENT	.19	5.26	.24	.22	.38	.34	70	All	All	All	All
AWNING WINDOW	.19	5.26	.24	.22	.38	.34	71	All	All	All	All
DIRECT-SET PICTURE WINDOW	.16	6.25	.31	.28	.51	.46	71	N, NC	All	N, NC	N, NC
FIXED CASEMENT PICTURE WINDOW	.17	5.88	.28	.25	.45	.40	70	All	All	N, NC	All

## Energy Guard Triple Insulated Glass (Energy Star Most Efficient) Triple insulated glass with high-performance LoE<sup>3™</sup> 366/Argon on two glass surfaces

TYPE	U-VALUE	R-VALUE	SOLAR HEAT GAIN NO/GRIDS	SOLAR HEAT GAIN W/GRIDS	VISIBLE LIGHT NO/GRIDS	VISIBLE LIGHT W/GRIDS	CONDENSATION RESISTANCE	U.S. ENERGY STAR ZONES NO/GRIDS	U.S. ENERGY STAR ZONES W/GRIDS	U.S. ZONES ENERGY STAR MOST EFFICIENT NO/GRIDS	U.S. ZONES ENERGY STAR MOST EFFICIENT W/GRIDS
CASEMENT	.18	5.56	.16	.15	.31	.28	70	All	All	NC, SC, S	NC, SC, S
AWNING WINDOW	.18	5.56	.16	.15	.31	.28	71	All	All	NC, SC, S	NC, SC, S
DIRECT-SET PICTURE WINDOW	.16	6.25	.21	.19	.41	.37	71	All	All	All	NC, SC, S
FIXED CASEMENT PICTURE WINDOW	.16	6.25	.19	.17	.36	.32	71	All	All	NC, SC, S	NC, SC, S

## Energy Guard STRUCTURAL PERFORMANCE DATA

TYPE	SIZE TESTED	CLASS/PERFORMANCE GRADE	AIR INFILTRATION	WATER INFILTRATION	FORCED ENTRY
CASEMENT	30 x 72	LC - 50	.03cfm/ft2	12.00 psf	Grade 20
AWNING	48 x 39	LC - 40	.03cfm/ft2	12.00 psf	Grade 20
DIRECT-SET PICTURE WINDOW	96 x 72	LC - 50	.01cfm/ft2	12.00 psf	Passed
FIXED CASEMENT PICTURE WINDOW	72 x 72	LC - 40	.01cfm/ft2	12.00 psf	Passed

The windows and doors described herein meets or exceeds the AAMA/WDMA/CSA 101/I.S.2/A440-08

## LIMITED WARRANTY

Thank You For Choosing Thermo-Tech Window Products. All Of Our Employees At Thermo-Tech Are Dedicated To The Highest Standards Of Quality Which Reflects In Our Company's Reputation For Workmanship, Product Performance And Customer Satisfaction. We Are Committed To Bringing You Products Of The Highest Quality And Value. We Are Committed To Standing Behind Our Products With Quick Responsive Service And A Comprehensive Warranty. This Warranty Is Our Statement Of Confidence In Our Products And Our Desire To Provide You With Total Customer Satisfaction.

\* This Is A Limited Warranty And Is Extended To All Purchasers Of Thermo-Tech Windows, And To Subsequent Owners To Which This Limited Warranty Has Been Properly Transferred. (See Warranty Conditions And Exclusions). Your Thermo-Tech Product Is Warranted To Be Free From Defects In Manufacturing, Materials And Workmanship As Provided Herein. If Such A Defect Occurs, Thermo-Tech Will At Its Option (1) Repair The Defective Product, (2) Replace The Defective Materials Or (3) Refund Your Purchase Price.

### Vinyl Frame And Sash Parts: Lifetime

Thermo-Tech Warrants That The Upvc Vinyl Frame And Sash Parts (Including Interior Laminated Window Material) Will Not Rot, Blister, Pit, Flake Or Peel Under Ordinary Conditions On Account Of Manufacturing Defects In The Extrusions.

Thermo-Tech's Obligation To This Warranty Is To Supply Replacement Product Only.

### Window Hardware: Lifetime

Thermo-Tech Warrants All Window Hardware Shall Be Free From Factory Defects In Material And Workmanship For The Life Of The Structure In To Which The Window Is Installed. Thermo-Tech's Obligation To This Warranty Is To Supply Replacement Hardware Only.

### Insulated Glass: 20 Years

Thermo-Tech Warrants The Sealed Insulated Glass For Seal Failure Causing Impaired Vision Due To Moisture, Film Or Dust Between The Glass Panes. This Warranty Does Not Include Scratches, Cracked Or Broken Glass Or Damage Caused By Improper Maintenance, Handling Or Misuse, Heat Buildup Or The Application Of After Manufacture Film On Glass. Should Any Insulated Glass Unit Be Proven Defective During The Warranty Period, Thermo-Tech Shall Provide: Either A Replacement Piece Of Insulated Glass Or A Sash Glazed With Insulated Glass, At Its Discretion, Delivered To The Original Point Of Purchase, Or Shipped Direct To The Consumer (Normal Shipping And Delivery Charges Will Apply). Thereafter, Thermo-Tech Will Not Be Responsible For Installation And Replacement Of The Glass Or Sash.

Stress Breaks In The Insulated Glass Unit Are Covered For A Period Of 1 Year From The Date Of Manufacture. Should A Stress Break Occur During The Warranty Period Thermo-Tech Shall Provide Either A Replacement Piece Of Insulated Glass Or A Sash Glazed With Insulated Glass At Its Discretion. Labor To Install The Replacement Insulated Glass Unit Or The Replacement Sash For A Period Of 1 Year From The Date Of Manufacture. A Thermo-Tech Representative Must Determine If The Crack Is An Actual Stress Break.

## Conditions And Exclusions:

- \* This Is A Limited Warranty And Does Not Cover Labor, Shipping Expenses Or Other Costs Associated With The Installation Or Removal Of Product For Repair Or Replacement Except Where Noted.
- \* Thermo-Tech Is Responsible For Its Products Only. Installation Or Refinishing Of Replacement Parts Will Be The Responsibility Of The Consumer.
- \* Excludes Improper Installation, Field Finishing Or Maintenance.
- \* Excludes Adjustments Of Locks, Latches, Sash Positions Or Fit To Frame Or Any Other Adjustments Due To But Not Limited To Structural Expansion, Contraction, Movement, Settling Or Other Outside Factors That May Affect Operation, Function And/Or Fit Of Product.
- \* This Limited Warranty Does Not Apply To Any Damage Or Failure Caused By Fire, Accident, Flood, Insects, Misuse, Hail, Vandalism Or Any Other External Forces Such As An Act Of God. Thermo-Tech Assumes No Other Liability For Subsequent Damages To Any Other Material Than The Products It Manufactures.
- \* Excludes Normal Wear, Discoloration Or Fading Of Finishes, Including The Tarnishing Of Metallic Finishes.
- \* Excludes Damage Caused By Chemicals (I.E. Brick Wash) Or A Harsh Environment (I.E. Salt Spray Or Airborne Pollutants).
- \* This Warranty Applies Only To Single Family Dwellings In Which Thermo-Tech Windows Were Installed.
- \* Excludes Windows And Doors That Are Installed In Structures That Do Not Allow For Proper Moisture Management Or The Drainage Of Moisture Such As Exterior Insulation And Finish Systems (EIFS), Also Known As Synthetic Stucco. The System Must Have An Engineered Drainage System.
- \* Excludes Condensation Or Frost On The Interior Or Exterior Exposed Surfaces. These Conditions Are Not A Defect In The Product, But A Result Of Excessive Humidity.
- \* Excludes Any Wood Extension Jambos Or Trim.

Thermo-Tech Reserves The Right To Discontinue Or Change Any Thermo-Tech Window System As Manufactured.

**We Shall Not Be Responsible For Consequential Or Incidental Damages Of Any Kind Due To Negligence Or Otherwise. This Warranty Is In Lieu Of All Other Agreements, Understandings, And Warranties. Express Or Implied, Including An Implied Warranty Of Merchantability. There Being No Obligations Or Liabilities On Thermo-Tech Other Than Those Expressed In This Warranty.**

This Warranty Is Transferable For A Period Of Up To Three Years From The Date Of Purchase. To Transfer Please Call 320-529-4012 Or 877-565-0159. If You Have A Warranty Claim With Your Thermo-Tech Window, Call The Dealer Nearest You Or From Whom The Products Were Purchased Or Call 320-529-4012 Or 877-565-0159.

Effective October 2007





## Craftsmanship Infused With Technology

Thermo-Fit Premium Custom Windows & Doors blend masterful craftsmanship with superior vinyl and insulated-glass technology. Homeowners gain energy savings, curb appeal and low-maintenance comfort. All from a trusted and recognized company.



Thermo-Fit vinyl windows and patio doors are available in custom sizes for renovation projects. For samples of our quality American-made products, please visit your local Thermo-Tech dealer or call 1-877-565-0159 to find the dealer nearest you. Your Thermo-Tech dealers are window and door professionals, ready to help you achieve impressive results.

**Please visit us at [www.ttwindows.com](http://www.ttwindows.com) any time for more information.**

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