

# Thermo-Fit<sup>®</sup>

by Thermo-Tech

## Premium Custom Windows & Doors

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

*Your satisfaction  
is reflected in  
everything we do.*

 **Thermo-Tech<sup>®</sup>**  
*Premium Windows and Doors*

# 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 will 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 windows and doors, like all Thermo-Tech products, have options that meet or exceed the requirements of ENERGY STAR® – a very significant ingredient to meeting green building rating criteria.

## 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. LoE glass options can be selected that meet or surpass minimum requirements of ENERGY STAR while providing 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 vinyl replacement windows & patio doors money can buy!

Thermo-Fit windows and patio doors come standard with white vinyl, matching hardware and double-pane insulated high-performance, argon-filled LoE glass. Combine other options to create a truly custom solution to fit your specific needs and lifestyle.

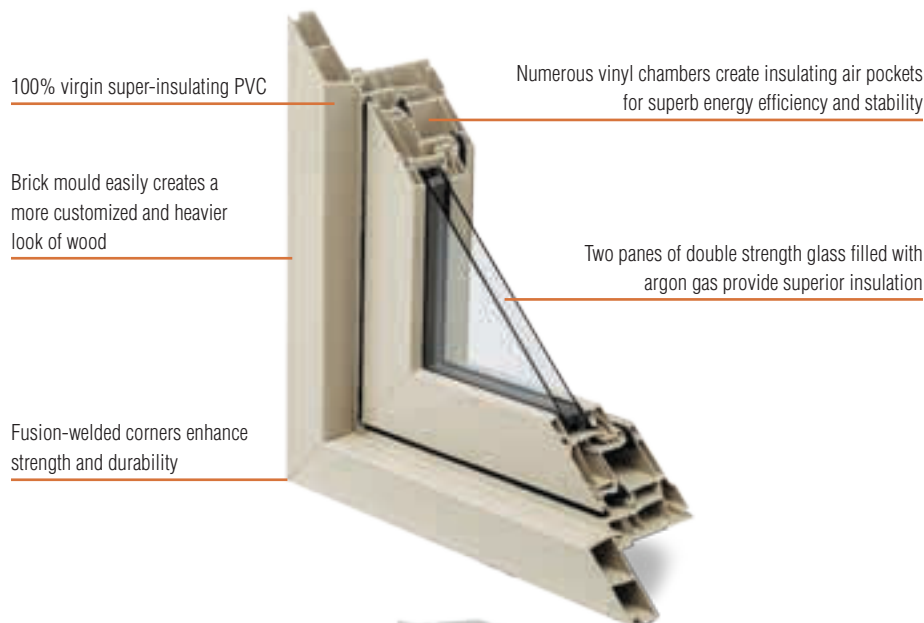
### It Starts With Insulated Glass

Choose our standard double-pane insulated High-Performance glass, or select our Premium or Ultimate High-Performance options designed to meet a variety of needs.

Premium High-Performance heat reflecting glass adds even more insulating power for a balance of solar control, thermal performance, high visibility, and additional fade protection.

For the greatest thermal performance of all double-pane options, Thermo-Tech's Ultimate High-Performance glass option delivers a "twin punch". It offers all the benefits of our Premium option while maximizing thermal performance.

*Compare glass performance information on pages 10 and 11.*



## EnergyGuard

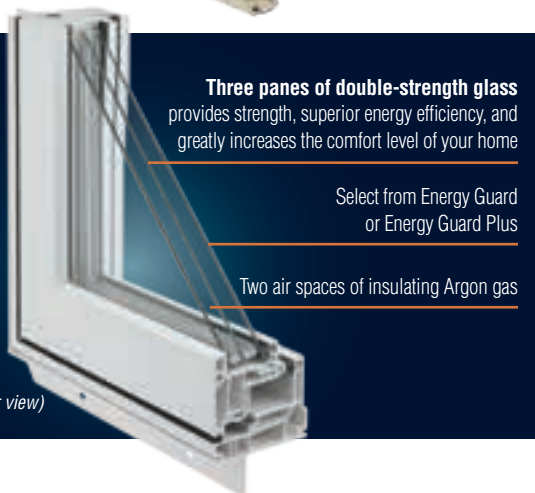
by Thermo-Tech

### TRIPLE-PANE WINDOWS

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

**Available in casements, awnings, fixed-casements, direct-set picture windows, and shapes.**

(exterior view)



## Thermo-Tech® WARM-EDGE ADVANTAGE



For the longest-lasting comfort and energy savings, Thermo-Tech insulated glass incorporates warm-edge Intercept® glass spacer systems.

- For added insulating value and durability, no other type of thermal design brings these combined advantages
- Patented U-shape construction extends window life
- Best argon retention
- ENERGY STAR® 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 failures better.

### OTHERS

INCREASED STRESS



Colder



Neutral

INCREASED STRESS



Warmer

### OURS



Colder



Neutral



Warmer

## Glass Options

All Thermo-Fit windows and patio doors come standard with double strength, High-Performance LoE, argon filled 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 Premium Or Ultimate High-Performance LoE 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
- Average heat loss reduction compared to clear double-pane glass is 50%
- Elevates dual pane performance to R4 or greater 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

**Wood laminates available with White or Sandlewood exteriors only.**

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



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



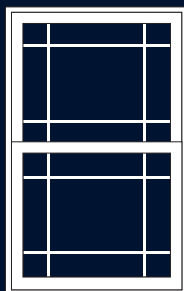
### Distinctive Grid Styles

#### FLAT OR CONTOURED GRID CONFIGURATIONS

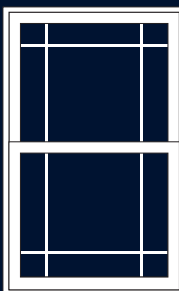
Flat or contoured grids between the glass are available in a variety of configurations and colors to match our vinyl windows and doors.



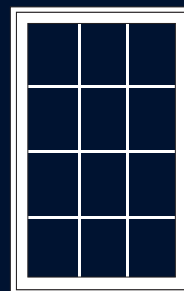
#### Grid Patterns



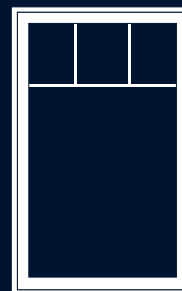
Prairie



Queen Ann



Colonial



Valance

### 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



Antique Brass



Oil-Rubbed Bronze

*Antique Brass and 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

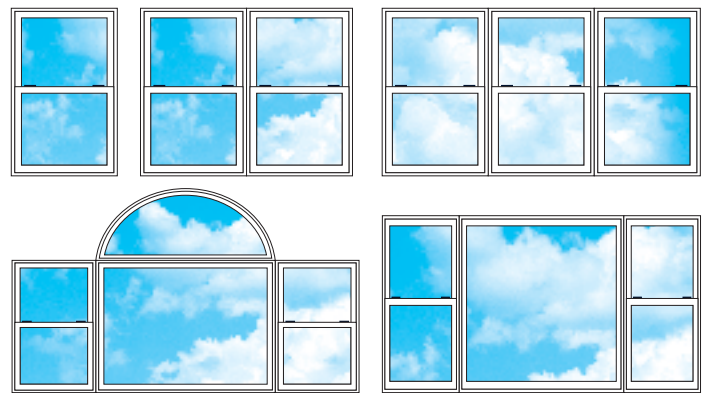
- Double-Hung both top and bottom sashes tilt in
- Flush mounted tilt latches in both Double and Single-Hung
- Single-Hung top glass is fixed into main frame and bottom sash tilts
- Smooth gliding balance system uses constant force coil that needs no adjusting and little or no maintenance
- Die-cast lock and keeper hardware draws in the sash for secure and weather tight locking
- Sloped sill directs water runoff
- 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. (21 sq. ft. over 72")	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"



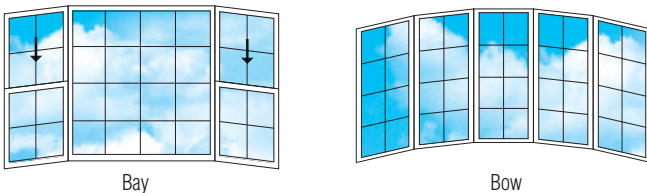
### CONFIGURATIONS



## 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 back-up cable support system. Choose a bay window configuration with 30° or 45° angles, or a bow window in 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



(Contact Customer Service for minimum/maximum widths and heights.)





### 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.

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

See page 11 for performance data.



#### FEATURES

- Multi-point locking hardware secures sash tightly with a single lever
- Easy cleaning from the inside with our standard hardware
- Triple-layered weather stripping
- Heavy-duty standard low-profile folding hardware
- All hardware comes color matched to the exterior window color
- Laminate windows come standard with Sandlewood hardware
- See other options on pages 3-5



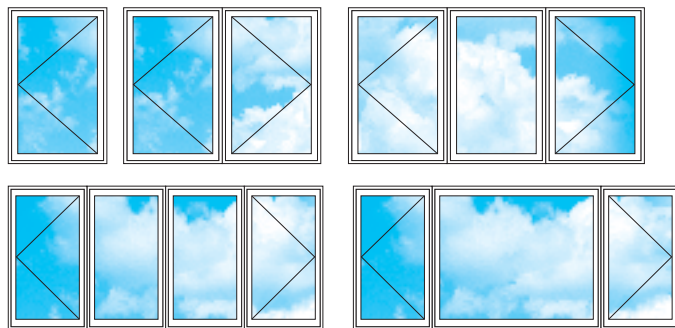
#### MINIMUM & MAXIMUM SIZES

WINDOW STYLE	MAX SQ. FT. GLASS & FRAME	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
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. Durable locking hardware ensures our awning windows close extremely tight, providing superior protection from wind 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 **Thermo-Tech® ENERGY GUARD & ENERGY GUARD PLUS Super High-Performance Window.**

See page 11 for performance data.



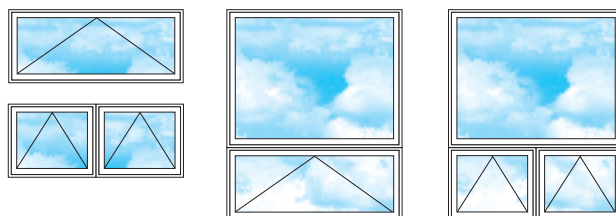
#### MINIMUM & MAXIMUM SIZES

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"	60" x 43 1/2"

#### ENERGY GUARD TRIPLE PANE

Awning	9 sq. ft.	19 1/2" x 15 1/2"	40" x 40"
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#### CONFIGURATIONS



## Horizontal Slider Windows

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

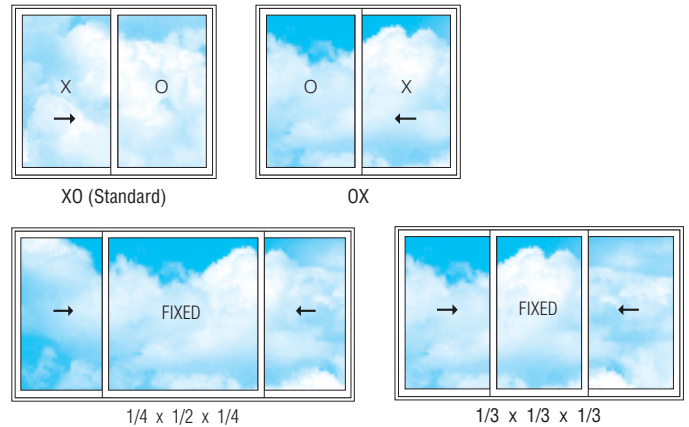
### FEATURES

- Dual brass rollers ensure smooth and easy operation of the sash
- Track lock system locks window sash in closed position or at 2" open for security and ventilation
- Die cast lock and keeper for added security
- Multi-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
<b>2- Lite Slider</b>	30 sq. ft.	19 7/8" x 10 1/16"	105" x 72"
<b>3- Lite Slider (Equal)</b>	40 sq. ft.	29 7/8" x 10 1/16"	144" x 72"
<b>3- Lite Slider (1/4-1/2-1/4)</b>	40 sq. ft.	39 3/4" x 10 1/16"	144" x 60"

### 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
<b>Direct-Set Picture Windows</b>	42 sq. ft.	10" x 10"	96" x 96"

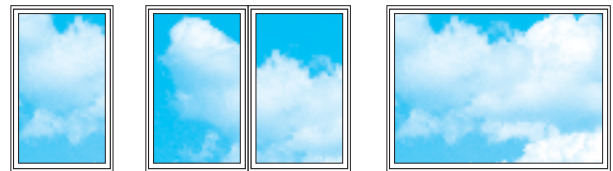
### ENERGY GUARD TRIPLE PANE

<b>Direct-Set Picture Windows</b>	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 11 for  
performance data.

### CONFIGURATIONS



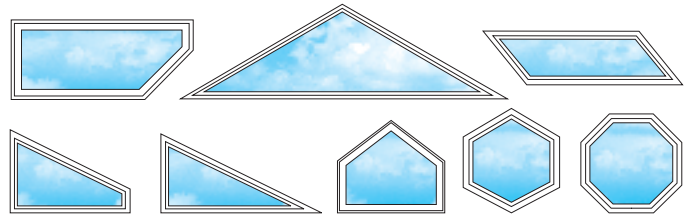
## Geometric & Radius Windows

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.

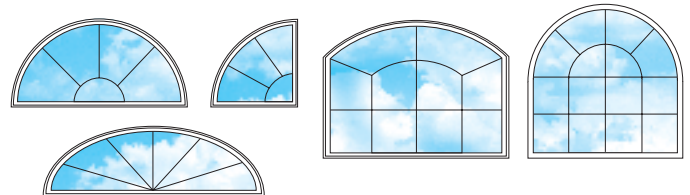
Select a geometric or radius window when you want to frame a beautiful exterior view.

Also available as  
**Thermo-Tech®  
ENERGY GUARD &  
ENERGY GUARD PLUS  
Super High-Performance  
Window.**  
See page 11 for  
performance data.

### GEOMETRIC WINDOW CONFIGURATIONS



### RADIUS WINDOW CONFIGURATIONS





## Sliding Patio Doors



### Slim Line

The sleek stiles and rails of the Thermo-Fit Slim Line Sliding Patio Door offer a contemporary upscale look with 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.

### Classic French Style

Thermo-Fit Classic French Style Sliding Patio Doors have wider stiles and rails for a more traditional 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.

#### 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 (*Classic Series only*)
- Aluminum anodized scuff resistant threshold
- Premium aluminum adjustable screen with BetterVue® 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, White, Tan, and Sandlewood. Laminates available with White and Sandlewood exterior colors only.

#### C-HANDLE COLOR OPTIONS

##### Slim Line Patio door



White, Tan, and Sandlewood

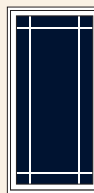
##### Classic French Style Patio door



White, Tan, Sandlewood, 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

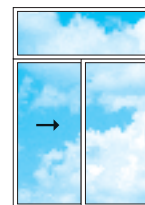
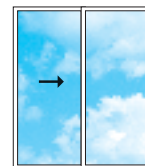
#### MINIMUM & MAXIMUM SIZES (2-PANEL)

DOOR STYLE	MINIMUM WIDTH x HEIGHT	MAXIMUM WIDTH x HEIGHT
Classic French	59" x 60"	96" x 96"
Slim Line	59" x 66"	96" x 96"

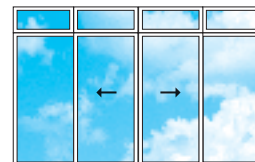
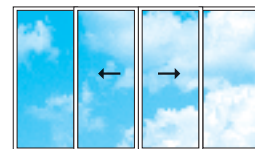
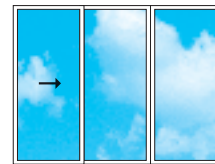
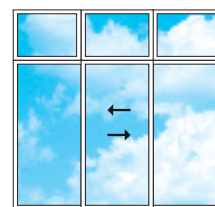
(Contact Customer Service for 3- and 4-Panel minimum/maximum widths and heights.)

#### CONFIGURATIONS

Available in both Slim Line and Classic French



Available in Classic French only



# 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 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.

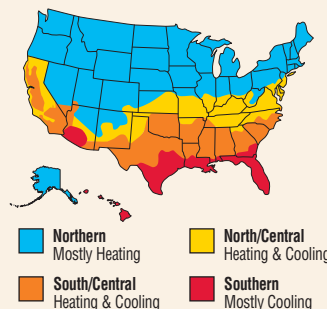
Look for the National Fenestration Rating Council (NFRC) label for an accurate method to compare a product's energy performance and also ensure the windows are ENERGY STAR® compliant in your area.

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.



Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.27	Any
North/Central	≤ 0.30	≤ 0.40
South/Central	≤ 0.30	≤ 0.25
Southern	≤ 0.40	≤ 0.25



Most Efficient  
2019  
www.energy.gov

Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.20	≤ 0.20
North/Central	≤ 0.20	≤ 0.40
South/Central	≤ 0.20	≤ 0.25
Southern	≤ 0.20	≤ 0.25

<sup>1</sup> Btu/h.ft.<sup>2</sup>. °F

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

\*Doors meet ENERGY STAR at .30 U-Factor. SHGC may vary by zone.

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/i89™ Double insulated Glass with LoE<sup>3</sup>™ 366/Argon on one glass surface and i89™ 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/i89™	.23	4.35	.18	.17	.42	.38	46	All	All
HORIZONTAL SLIDERS	LoE <sup>3</sup> ™ 366/Argon/i89™	.25	4.00	.22	.20	.50	.44	44	All	All
SINGLE-HUNG	LoE <sup>3</sup> ™ 366/Argon/i89™	.25	4.00	.21	.19	.50	.44	43	All	All
DOUBLE-HUNG	LoE <sup>3</sup> ™ 366/Argon/i89™	.26	3.85	.20	.18	.47	.42	43	All	All
DIRECT-SET PICTURE WINDOW	LoE <sup>3</sup> ™ 366/Argon/i89™	.22	4.55	.24	.22	.56	.50	46	All	All
FIXED CASEMENT PICTURE WINDOW	LoE <sup>3</sup> ™ 366/Argon/i89™	.22	4.55	.21	.19	.50	.44	45	All	All
AWNING WINDOW	LoE <sup>3</sup> ™ 366/Argon/i89™	.23	4.35	.18	.17	.42	.38	45	All	All
SLIM LINE PATIO DOOR	LoE <sup>3</sup> ™ 366/Argon/i89™	.25	4.17	.22	.19	.51	.44	42	All	All
CLASSIC FRENCH PATIO DOOR	LoE <sup>3</sup> ™ 366/Argon/i89™	.26	3.85	.19	.16	.43	.37	44	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	.26	3.85	.19	.17	.43	.39	58	All	All
HORIZONTAL SLIDERS	LoE <sup>3</sup> ™ 366/Argon	.29	3.45	.22	.20	.51	.46	55	NC, SC, S	NC, SC, S
SINGLE-HUNG	LoE <sup>3</sup> ™ 366/Argon	.29	3.45	.22	.20	.51	.45	55	NC, SC, S	NC, SC, S
DOUBLE-HUNG	LoE <sup>3</sup> ™ 366/Argon	.30	3.33	.21	.19	.48	.43	54	NC, SC, S	NC, SC, S
DIRECT-SET PICTURE WINDOW	LoE <sup>3</sup> ™ 366/Argon	.26	3.85	.24	.22	.57	.51	58	All	All
FIXED CASEMENT PICTURE WINDOW	LoE <sup>3</sup> ™ 366/Argon	.26	3.85	.22	.20	.51	.45	57	All	All
AWNING WINDOW	LoE <sup>3</sup> ™ 366/Argon	.26	3.85	.19	.17	.43	.39	57	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	55	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	58	N, NC	N, NC
HORIZONTAL SLIDER	LoE <sup>2</sup> ™ 272/Argon	.30	3.33	.33	.30	.57	.51	55	NC	NC
SINGLE-HUNG	LoE <sup>2</sup> ™ 272/Argon	.30	3.33	.33	.30	.57	.50	54	NC	NC
DOUBLE-HUNG	LoE <sup>2</sup> ™ 272/Argon	.31	3.23	.31	.28	.54	.48	54		
DIRECT-SET PICTURE WINDOW	LoE <sup>2</sup> ™ 272/Argon	.27	3.70	.37	.33	.64	.57	57	N, NC	N, NC
FIXED CASEMENT PICTURE WINDOW	LoE <sup>2</sup> ™ 272/Argon	.27	3.70	.33	.30	.56	.50	57	N, NC	N, NC
AWNING	LoE <sup>2</sup> ™ 272/Argon	.27	3.70	.28	.26	.48	.43	57	N, NC	N, NC
SLIM LINE PATIO DOOR	LoE <sup>2</sup> ™ 272/Argon	.30	3.33	.33	.30	.58	.51	52	N, NC	N, NC
CLASSIC FRENCH PATIO DOOR	LoE <sup>2</sup> ™ 272/Argon	.30	3.33	.29	.25	.49	.42	54	N, NC	All

All tests conform to NFRC 100-2010, NFRC 200-2010, NFRC 400-2010, NFRC 500-2010 procedures.

## STRUCTURAL PERFORMANCE DATA

TYPE	SIZE TESTED	CLASS/PERFORMANCE GRADE	AIR INFILTRATION	WATER INFILTRATION	FORCED ENTRY
CASEMENT	30 x 72	LC - 50	.03cfm/ft <sup>2</sup>	12.12 psf	Grade 10
XO HORIZONTAL SLIDER	72 x 48	R - 40	.07cfm/ft <sup>2</sup>	6.06 psf	Grade 10
XOX 3-LITE HORIZONTAL SLIDER	108 x 60	LC - 30	.09cfm/ft <sup>2</sup>	4.60 psf	Grade 10
SINGLE-HUNG	40 x 72	R - 40	.07cfm/ft <sup>2</sup>	6.06 psf	Grade 10
DOUBLE-HUNG	48 x 72	R - 40	.02cfm/ft <sup>2</sup>	6.06 psf	Grade 10
DIRECT-SET PICTURE WINDOW	72 x 72	LC - 50	.01cfm/ft <sup>2</sup>	12.12 psf	Grade 10
FIXED CASEMENT PICTURE WINDOW	72 x 72	LC - 40	.01cfm/ft <sup>2</sup>	12.12 psf	Grade 10
AWNING	48 x 39	LC - 40	.03cfm/ft <sup>2</sup>	12.12 psf	Grade 10
SLIM LINE PATIO DOOR	72 x 84	R - 30	.02cfm/ft <sup>2</sup>	7.5 psf	Grade 10
CLASSIC FRENCH PATIO DOOR	72 x 84	LC - 40	.08cfm/ft <sup>2</sup>	7.5 psf	Grade 10

The windows and doors described herein meets or exceeds the AAMA/WDMA/CSA101/I.S.2/A440-08.

## Energy Guard PLUS Triple Insulated Glass (ENERGY STAR Most Efficient) Triple insulated glass with high-performance $\text{LoE}^{2\text{TM}}$ 272/Argon on two glass surfaces

**EnergyGuard**  
by Thermo-Tech.

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	.24	.22	.38	.35	71	All	All	All	All
AWNING WINDOW	.18	5.56	.24	.22	.38	.35	71	All	All	All	All
DIRECT-SET PICTURE WINDOW	.16	6.25	.31	.28	.51	.46	71	N, NC	N, NC	N, NC	N, NC
FIXED CASEMENT PICTURE WINDOW	.17	5.88	.28	.25	.45	.40	70	N, NC	All	N, NC	All



## Energy Guard Triple Insulated Glass (ENERGY STAR Most Efficient) Triple insulated glass with high-performance $\text{LoE}^{3\text{TM}}$ 366/Argon on two glass surfaces

**EnergyGuard**  
by Thermo-Tech.

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	72	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	.33	71	All	All	NC, SC, S	NC, SC, S



## 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 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 into which the window is installed. Thermo-Tech's obligation to this warranty is to supply replacement hardware only.

Exterior Applied Laminates: 10 Years

Thermo-Tech warrants that exterior laminates applied to vinyl surfaces will be free of manufacturing defects which result in rotting, cracking, warping, pitting, corroding, peeling, blistering, or non-uniform fading discoloration for a period of (10) years from the date of manufacture. Any color change in exterior applied laminate is warranted at greater than or equal to grayscale (3) for exposure in the U.S., Mexico, and Canada.

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 alter 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, at its discretion, provide either a replacement insulated glass unit, or a sash glazed with an insulated glass unit, and will provide labor to replace for a period of (1) year from the date of manufacture. Labor includes replacement of unit only. Thermo-Tech requires safe access to affected unit be provided by property owner or representative. A Thermo-Tech representative must determine and pre-approve whether the damage claimed 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, CONSTRUCTION DEBRIS, EXCESSIVE TEMPERATURES, EXPOSURE TO UNUSUAL HEAT SOURCES, 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 HARDWARE.
- \* EXCLUDES DAMAGE CAUSED BY CHEMICALS OR SEALANTS (I.E. BRICK WASH) OR A HARSH ENVIRONMENT (I.E. SALT SPRAY OR AIRBORNE POLLUTANTS). NOTE: SEALANTS USED IN WINDOW INSTALLATION AND BUILDING CONSTRUCTION MUST BE COMPATIBLE WITH WINDOW COMPONENTS AND MATERIALS.
- \* 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 JAMBS 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 AND FITNESS FOR A PARTICULAR PURPOSE, THERE BEING NO OBLIGATIONS OR LIABILITIES ON THERMO-TECH OTHER THAN THOSE EXPRESSED IN THIS WARRANTY.

THIS WARRANTY IS NULL AND VOID IF THE PRODUCT HAS BEEN REPAIRED WITHOUT AUTHORIZATION, OR IF IT HAS BEEN ALTERED, DISASSEMBLED, OR MODIFIED.

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.

This warranty shall be governed, construed, and enforced in accordance with the laws of the State of Minnesota, without regard to its conflict of law principles. All disputes and claims shall be resolved by a court located in Stearns County, Minnesota.



Effective May 2018





**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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*Premium Windows and Doors*