



# Picture/Specialty Shapes

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- Warranty Information

#### **Patio Doors**

SafeHarbor Impact-Hurricane Windows

# **ENERGY STAR**

Remodel / Replace Resource Center

Patio Enclosures / Sunrooms

**Decking Products** 

**Railing Products** 

Light Commercial Products

#### **Green Commitment**

Sunny...attractive...spacious...those are just a few words Thermal Industries Window owners have used to describe their new bay and bow windows!

You too, can create a breath-taking focal point in your home with a bay or bow window from our Vinyl Replacement Window Collection. These handcrafted bay and bow windows feature our energy-efficient vinyl windows combined with an interior header and seat of hand-sanded, furniture finish birch wood, or an optional oak veneer.





Since all Thermal Industries Vinyl Replacement Windows are custom-made for your home, you have a wide array of choices to enhance the appeal of your home. Thermal Industries bow and bay windows are available with casement, double hung, or fixed window vents. Select a roof style that will accentuate the architecture of your home including custom shingled or metal, hip or shed style roofs.

# inclosures / Since all Thermal

Bay and Bow Windows

Home ≫







All Thermal Industries Bay and Bow Windows specified with either our <u>Peak or Super Peak Performance</u> <u>Glass</u> packages are <u>ENERGY STAR</u> qualified for all 50 states.

### Features

- Pine Colonial-Style Casing Enriches the warmth of your home's interior ambience. Oak Option also available.
- Hand-Sanded 1-1/4-inch Birch Veneer Surround Smooth, even surfaces enable you to capture your room's warm, even tones, using your choice of paint or stain. Oak option also available.
- Multi-Point Locking System on Casement Vents Security and peace of mind translate into a safe home environment





- Corrosion-Resistant Hardware Protects exterior window parts from the corroding effects of weather and UV light.
- One-Piece Design

Exclusive to the industry, Thermal Industries manufactures and assembles the entire window in our factory, assuring the highest quality standards are maintained.

• Over-The-Edge Design No exposed exterior wood.

### Options

• ENERGY STAR qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology.

• ENERGY STAR qualified with <u>Super Peak Performance<sup>™</sup> Glass</u>, a triple pane insulating glass package with Low-E, Krypton Gas Warm-Edge Technology

- DreamGlas® Gallery Collection: Jewel Cut, Etched, Color & Camed Panels
- Casement or Double Hung Style Vents
- High-Grade 1-1/4" Oak Veneer Surround
- Custom Hip or Shed Roofs (Shingle or Metal)
- Dream<sup>®</sup>Wood Real Wood Pine Interior
- Natural WoodGrain Paintable/Stainable Interior Synthetic Laminate in Oak or Pine



- Removable Wood Grids for Dream<sup>®</sup>Wood & Natural WoodGrain Products
- Cable Supports





# Vinyl Windows

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Patio Doors

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# Casement and Awning Windows

Home ≫



Looking for a modern style of window to accentuate the architecture of your home? We can make it happen with our casement and awning style vinyl replacement windows!

Thermal Industries Casement and Awning Vinyl Replacement Windows offer the best of both worlds... the tightest seal available of any window styles, along with the most generous of ventilation opportunities.

In the closed position, our Casement and Awning Windows' weather-tight compression seal and multi-point locking system create a refrigerator-like seal, virtually eliminating air and water infiltration while improving the comfort level inside your home.



ENERGY STAR

All Thermal Industries Casement and Awning Windows specified with either our <u>Peak or Super Peak Performance Glass</u> packages are <u>ENERGY STAR®</u> qualified for all 50 states. Thermal Industries, Inc.: Casement and Awning Windows



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<ul> <li>Vinyl Windows</li> <li>Bay and Bow</li> <li>Casement and Awning</li> <li>Casement Windows</li> <li>Awning Windows</li> <li>Double Hung</li> <li>Garden</li> <li>Hopper/Basement</li> </ul>						
<ul> <li>Single Hung</li> <li>Slider</li> <li>Picture/Specialty Shapes</li> <li>Options</li> <li>Warranty Information</li> <li>Patio Doors</li> </ul>	Casement Windows Home >>  Thermal Industries casement vinyl replacement windows feature a concealed hinge design that enables the casement vents to open a full 90 degrees, make cleaning a breeze. What's more, our optional folding handles provide extra room for window treatments.  Features					
· SafeHarbor Impact- Hurricane Windows	Solid Vinyl, Multi-Chambered Construction     Will not chip, peel or rot; never requires scraping or painting					
ENERGY STAR     Remodel / Replace     Resource Center     Patio Enclosures /	<ul> <li>Fully-Welded Frame &amp; Sashes Provide added strength and enhanced thermal performance</li> <li>Weather-Tite Compression Seal on the Frame Virtually eliminates air and water infiltration.</li> </ul>					
Sunrooms Decking Products Railing Products	• Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology For enhanced thermal performance; reduces condensation and seal failures					
Light Commercial     Products	Multi-Point Locking System     Provides security and peace of mind					
Green Commitment	• Corrosion Resistant Hardware Protects the casement's exterior window parts from the corroding effects of weather and UV light.					
	• Unique Integral Mullion System Enables you to create a wall of casement windows by connecting or "mulling" the windows together.					



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.



th <u>Peak Performance Glass</u>, a dual pane insulating glass Gas and Warm-Edge Technology the <u>Super Peak Performance Glass</u>, a triple pane insulating typtom Gas and Warm-Edge Technology

> d Caming ty of Styles

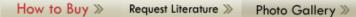
ety of Styles <u>Colors</u> ted <u>Hardware</u>

Folding Operator Handle

- Dream<sup>®</sup>Wood Real Pine Wood Interior
- <u>Natural WoodGrain</u>; Paintable/Stainable Synthetic Laminate in Pine or Oak
- Removable Wood Grids for Dream®Wood
- Aluminum Screen

See more Casement and Awning Window images in our photo gallery.

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# Thermal Industries, Inc.

A Division of Afriur

#### Vinyl Windows

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# Awning Windows

Home »

Thermal Industries' Awning vinyl replacement windows are a top-hinged window system that swings outward to offer maximum ventilation even on rainy days.

#### Features

- Solid Vinyl, Multi-Chambered Construction Will not chip, peel or rot; never requires scraping or painting
- Fully-Welded Frame & Sashes Provide added strength and enhanced thermal performance
- Weather-Tite Compression Seal on the Frame Virtually eliminates air and water infiltration.
- Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology For enhanced thermal performance; reduces condensation and seal failures
- Dual Flush-Mount Secure Locks Provide security and peace of mind
- Roto Gear Operator
- Enables easy opening and closing of window sash

http://www.thermalindustries.com/vinyl-windows/casement-and-awning/awning-windows/ (1 of 2) [10/08/2008 9:06:42 AM]

# Green Commitment



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.

#### • E-Z Clean Release Latches

Assures safe and easy sash cleaning from inside your home

• Corrosion Resistant Hardware

Protects the casement's exterior window parts from the corroding effects of weather and UV light.

### Options

• <u>ENERGY STAR</u> qualified with <u>Peak Performance Glass</u>, a dual pane insulating glass package Warm-Edge Technology

• <u>ENERGY STAR</u> qualified with <u>Super Peak Performance Glass</u>, a triple pane insulating glass peckage with Low Gas and Warm-Edge Technology

- Obscure & Tinted Glass
- DreamGlas®; Jewel Cut, Color and Caming
- <u>Maintenance-Free Grids</u> In a Variety of Styles





- Shaped Accent Windows in a Variety of Styles
- Earthtone and Vycap Safari Brown Colors
- Brushed Nickel or Brass Electroplated <u>Hardware</u> (Operator Only)
- Folding Operator Handle
- Dream®Wood Real Pine Wood Interior
- <u>Natural WoodGrain</u>; Paintable/Stainable Synthetic Laminate in Pine or Oak
- Removable Wood Grids for Dream®Wood
- Aluminum Screen

See more Casement and Awning Window images in our photo gallery.

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# Vinyl Windows

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#### **Patio Doors**

SafeHarbor Impact-Hurricane Windows

**ENERGY STAR** 

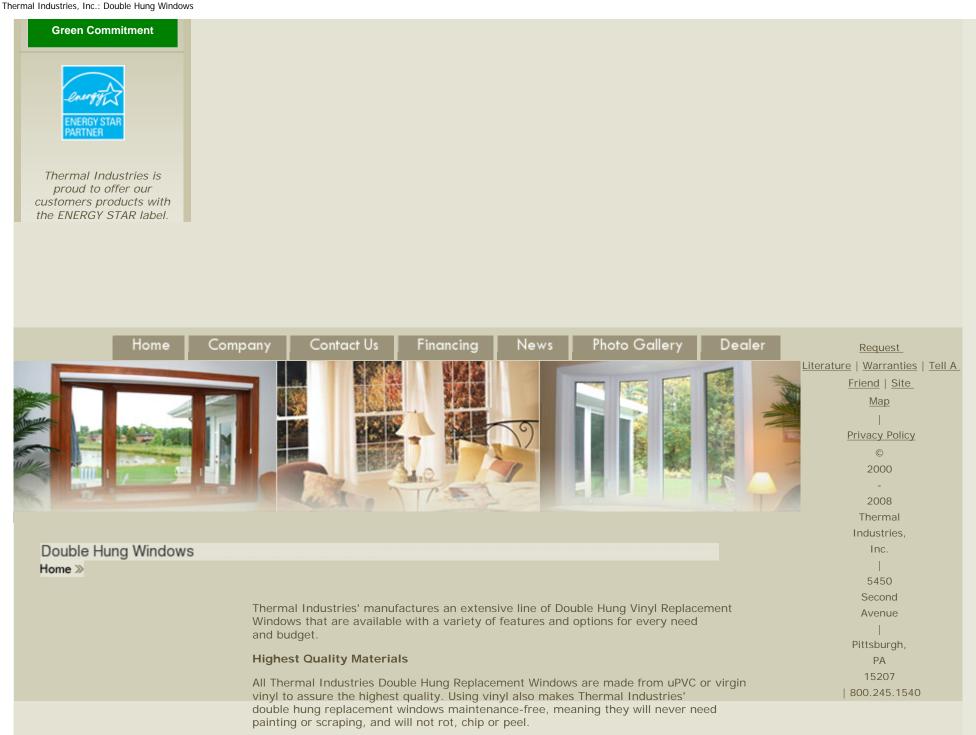
Remodel / Replace Resource Center

Patio Enclosures / Sunrooms

**Decking Products** 

**Railing Products** 

**Light Commercial Products** 



#### Structural Integrity Built Into Every Window

Thermal Industries Double Hung Vinyl Replacement Window frames feature



multi-chambered, Parallel I-beam Construction to provides strength, durability and longevity. Fully-welded and weeped sills make our replacement window welds 300% stronger than the industry's standard windows, while providing excellent water resistance.

All Thermal Industries Double Hung Windows specified with either our <u>Peak</u> <u>Super Beak Performance™ Glass</u> packages are <u>ENERGY STAR</u>® qualified

Convenience You Can Count On

All Thermal Industries Double Hung vinyl replacement window sashes tilt-in for easy and safer cleaning from inside your home. Locking Zinc Tilt Pins also prevent accidental sash displacement during window cleaning.

Thermal Industries Double Hung vinyl replacement windows feature Block & Tackle Balances, enabling you to open and close the window's sashes with ease. This balance system is made with similar cord materials used in mountain climbing. Thermal Industries Block & Tackle Balances work on direct vertical force causing less friction than other window balance systems on the market.



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Thermal Industries, Inc.: Value-Line 305 Series Double Hung Window



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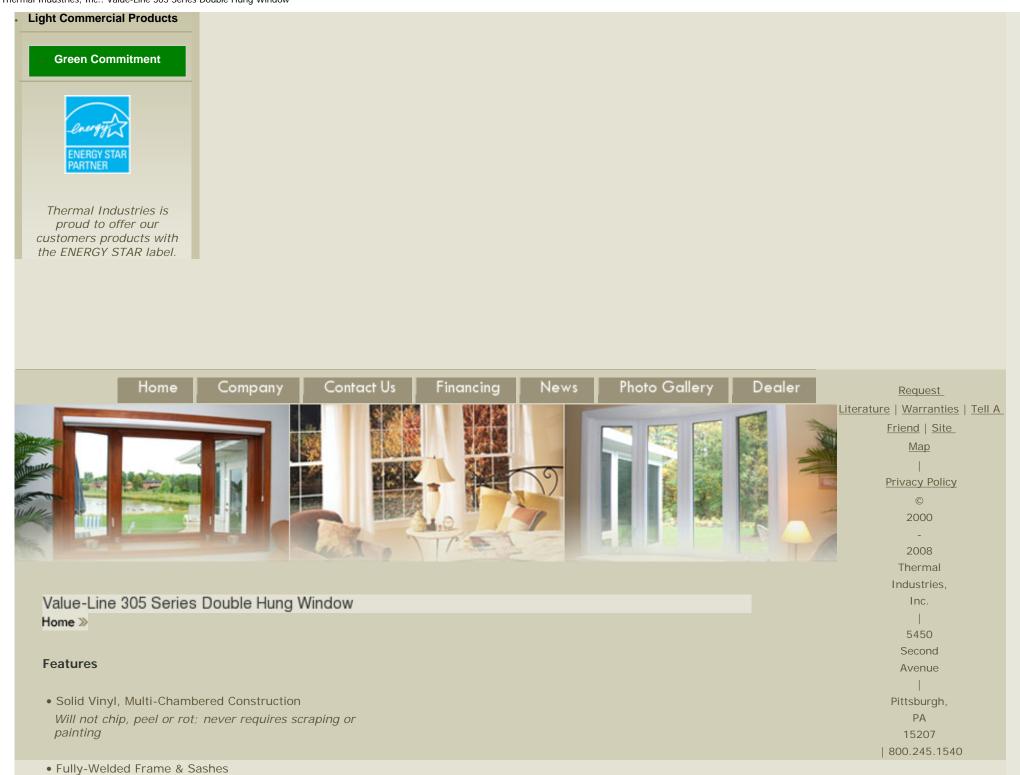
# Patio Doors

SafeHarbor Impact-Hurricane Windows

#### ENERGY STAR

- Remodel / Replace Resource Center
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- **Railing Products**

Thermal Industries, Inc.: Value-Line 305 Series Double Hung Window



http://www.thermalindustries.com/vinyl-windows/double-hung/value-line-series/ (2 of 4) [10/08/2008 9:07:38 AM]

Provide added strength and enhanced thermal performance



- Sloped Sill with the Integral Reticulating Foam<sup>™</sup> Weep System *Resists air infiltration and improves water drainage*
- Block & Tackle Balance System
   Assures a lifetime of trouble-free sash operation
- Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology For enhanced thermal performance; reduces condensation and seal failures
- Interlocking Sashes Prevent drafts and help prevent forced entry
- Dual Q-Lon & Finseal Weather-Stripping Seals at Meeting Rail *Prevents air and water infiltration*

• Q-Lon Seal at Sill Creates a weather-seal preventing air and water infiltration

- Block & Tackle Balances Provide years of smooth and easy sash operation
- Vinyl Lift Rails Full width rails on both sashes assure easy sash operation
- Round Housing Locks Provides security
- Night Vent Latches Safely ventilate your home
- Recessed Tilt Latches on Top & Bottom Sashes Assure safe and easy sash cleaning from inside your home
- Half Screen
- White Color

Options



Thermal Industries, Inc.: Value-Line 305 Series Double Hung Window

• <u>ENERGY STAR</u> qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology

- Obscure Glass
- Shaped Accent Windows in a Variety of Styles
- Earthtone Color
- Maintenance-Free Internal Grids: Square, Flat, Contour Wide, Contour Narrow
- Full Screen

See more <u>Double Hung Window images</u> in our photo gallery.

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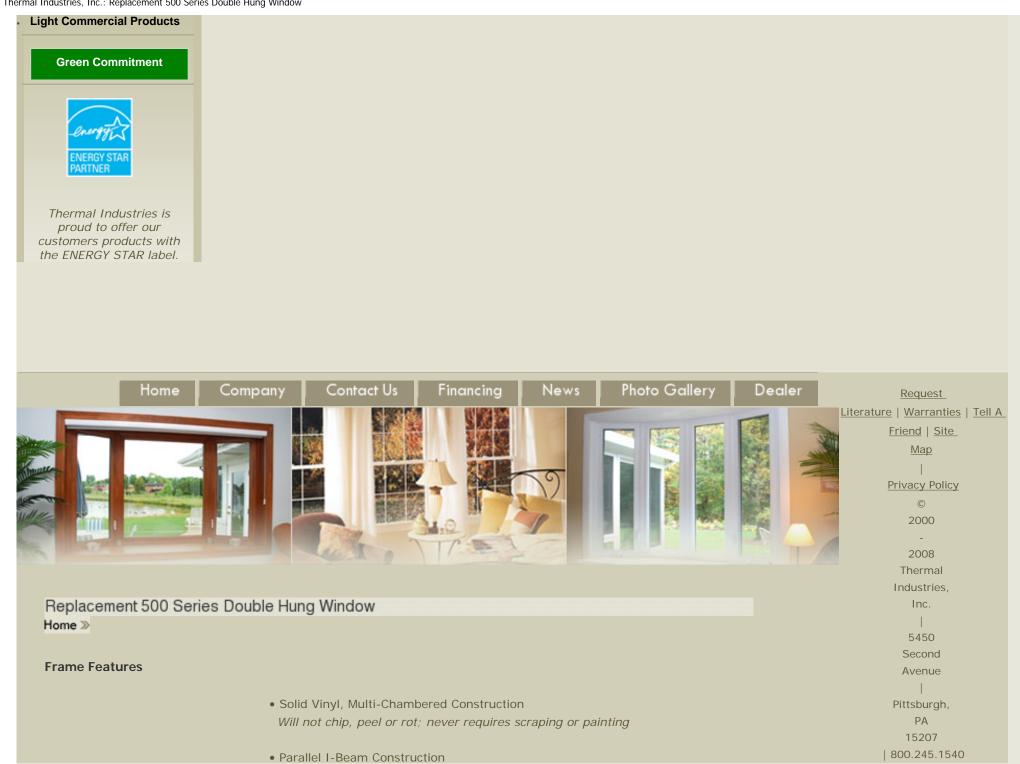
# Patio Doors

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#### ENERGY STAR

- Remodel / Replace Resource Center
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Thermal Industries, Inc.: Replacement 500 Series Double Hung Window



http://www.thermalindustries.com/vinyl-windows/double-hung/replacement-500-series/ (2 of 4) [10/08/2008 9:07:57 AM]

#### Thermal Industries, Inc.: Replacement 500 Series Double Hung Window



*Provides increased strength, durability and structural integrity* 

• Fully-Welded Frame & Sashes

Provide added strength, longevity and enhanced thermal performance

Beaded Flat Jamb Design

Creates maximum daylight and egress (opening by means of which one goes out: emergency exit). Also enables easy tilting of top sash

- Fully Fusion-welded and Weeped Sill Provides excellent water resistance
- Block & Tackle Balances with Draft Sentry Provide years of smooth and easy sash operation
- Beveled Screen Track Enables easy screen removal
- Half Screen
- White Color

# Sash Features

- Dual-Pane 13/16" Insulating Glass Improved thermal performance
- Intercept Warm-Edge Technology Reduces condensation and seal failures and improves thermal performance
- Q-Lock Compression Seals at Meeting Rail Virtually eliminate air and water infiltration
- Double Wall "Easy-Grip" Vinyl Lift Rails

#### Thermal Industries, Inc.: Replacement 500 Series Double Hung Window

Full width rails assure easy sash operation

- Finseal Woolpile Weather-Stripping Virtually eliminates air and water infiltration
- Round Housing Locks Security and peace of mind
- Rounded Safety Night Latches Safely ventiliate your home
- Rounded External Tilt Latches Provide easy access to sash tilting feature
- Locking Zinc Tilt Pins Prevent accidental sash displacement during window cleaning

# Options

- <u>ENERGY STAR</u> qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology
- Obscure and Tinted Glass
- Shaped Accent Windows in a Variety of Styles
- Earthtone Color
- Maintenance-Free Grids in a Variety of Styles
- Foam Wrap
- Full Screen, Aluminum Screen
- Nailing Fin for New Construction

See more **Double Hung Window images** in our photo gallery.

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# **Vinyl Windows**

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### **Patio Doors**

SafeHarbor Impact-Hurricane Windows

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Remodel / Replace Resource Center

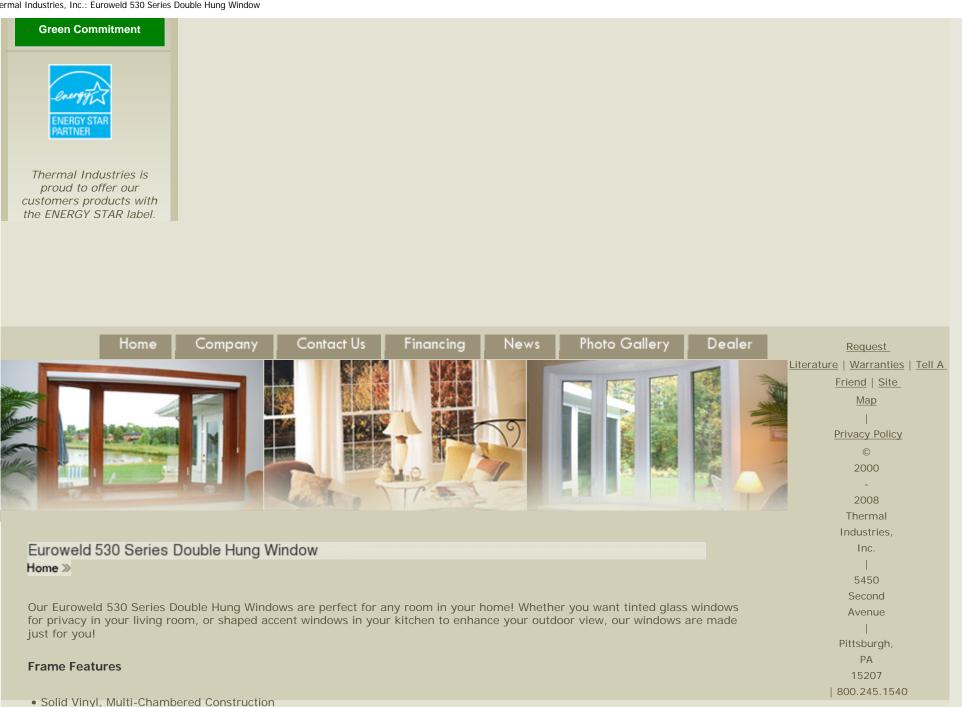
Patio Enclosures / Sunrooms

**Decking Products** 

**Railing Products** 

**Light Commercial Products** 

Thermal Industries, Inc.: Euroweld 530 Series Double Hung Window



- Will not chip, peel or rot; never requires scraping or painting
- Parallel I-Beam Construction

Provides increased strength, durability and structural integrity

• Dedicated Pocket Header

Provides a clean interior appearance and prevents air infiltration



• Sloped Weather-Trac Sill

A weather-inhibiting pocket that significantly improves water drainage and air infiltration ratings

• Fully Welded and Weeped Sill

Provides excellent water resistance and structural integrity; 300% stronger welds than other window products on the market

• Block and Tackle Balances with Draft Sentry Provide years of smooth and easy sash operation

• Balance Covers Provide a clean, aesthetically pleasing appearance

- Beveled Screen Track
   Stiffens frame, enables easy screen removal and improves
   aesthetics
- Fiberglass Half Screen
- White Color

#### **Sash Features**

- Dual-Pane 13/16" Performance<sup>™</sup> Insulating Glass Improved thermal performance
- Intercept Warm-Edge Technology Reduces condensation and seal failures and improves thermal performance
- Extruded Integral Vinyl Interlocks Draw sashes tight to form weather barrier
- Double Wall "Easy-Grip" Vinyl Lift Rails Full width rails assure easy sash operation
- Double Woolpile Seal at Meeting Rail Provides a thermal blanket around sashes
- Dual Finseal Woolpile & Q-Lon Weather-Stripping

#### Thermal Industries, Inc.: Euroweld 530 Series Double Hung Window

Virtually eliminate air and water infiltration

Stealth Overlap Lock

Low profile lock features a hidden keeper for a sleek appearance, while providing security and peace of mind

- Sentry Night Latches Safely ventilate your home
- Recessed Tilt Latches Provide easy access to sash tilting feature
- Locking Zinc Tilt Pins Prevent accidental sash displacement during window cleaning

# Options

- <u>ENERGY STAR</u> qualified with <u>Peak Performance Glass</u>, a dual pane insulating glass package warm-Edge Technology
- <u>ENERGY STAR</u> qualified with <u>Super Peak Performance Glass</u>, a triple pane insulating glass pages and Warm-Edge Technology
- Obscure and Tinted Glass
- DreamGlas<sup>®</sup>; Jewel Cut, Color and Caming
- Exclusive Circle Sash<sup>™</sup> Muntin Design
- Shaped Accent Windows in a Variety of Styles
- Brass Lock and Keeper
- (Not available in "Stealth" profile; Available External "Round-House Lock" style only)
- Earthtone Color
- Natural WoodGrain-paintable and stainable interior synthetic laminate in Oak or Pine
- Maintenance-Free Muntins in a Variety of Styles
- External Removable Wood Muntins (Pine only)
- Foam Frame Wrap
- Locking Fiberglass Half Screen
- Full Screen, Aluminum Screen

See more Double Hung Window images in our photo gallery.

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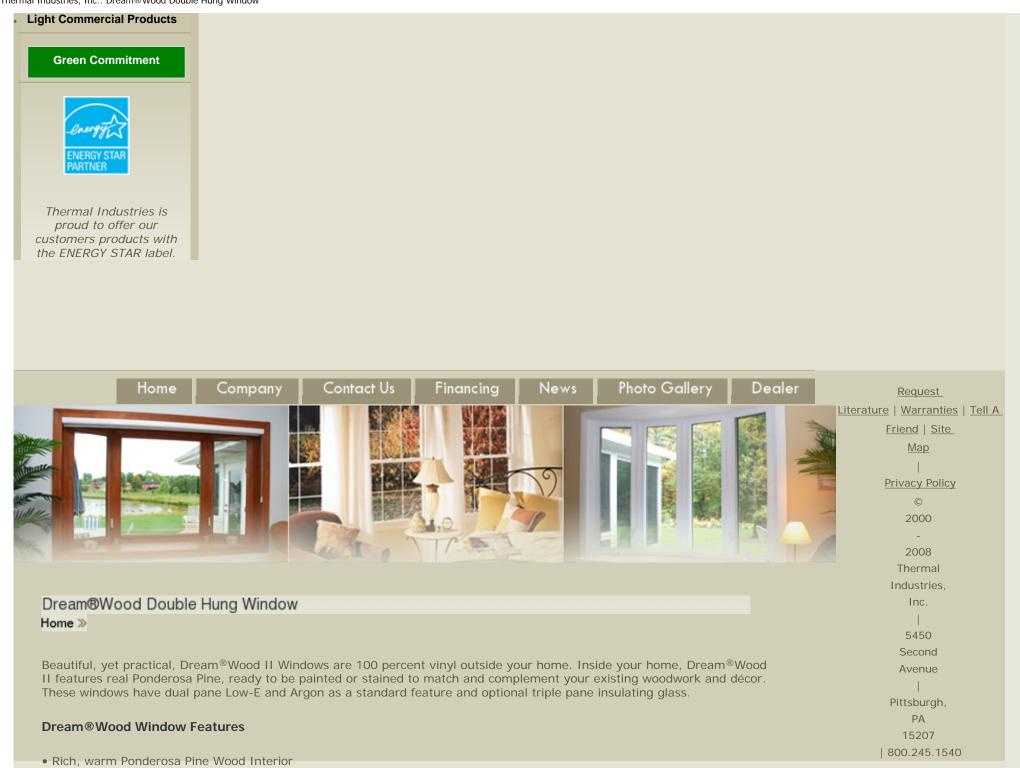
# Patio Doors

SafeHarbor Impact-Hurricane Windows

#### ENERGY STAR

- Remodel / Replace Resource Center
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- Decking Products
- **Railing Products**

Thermal Industries, Inc.: Dream®Wood Double Hung Window



White Vinyl Exterior with Earthtone Color Jamb

# **Frame Features**

- Solid Vinyl, Multi-Chambered Construction Will not chip, peel or rot; never requires scraping or painting
- Parallel I-Beam Construction *Provides increased strength, durability and structural integrity*



- Dedicated Pocket Header Provides a clean interior appearance and prevents air infiltration
- Sloped Weather-Trac Sill A weather-inhibiting pocket that significantly improves water drainage and air infiltration ratings
- Fully Welded and Weeped Sill Provides excellent water resistance and structural integrity; 300% stronger welds than other window products on the market
- Block and Tackle Balances with Draft Sentry Provide years of smooth and easy sash operation
- Balance Covers

Provide a clean, aesthetically pleasing appearance

- Beveled Screen Track Stiffens frame, enables easy screen removal and improves aesthetics
- Locking Fiberglass Half Screen
- White Color

# **Sash Features**

- <u>ENERGY STAR</u> qualified with <u>Peak Performance Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology
- Extruded Integral Vinyl Interlocks Draw sashes tight to form weather barrier

#### Thermal Industries, Inc.: Dream®Wood Double Hung Window

- Double Woolpile Seal at Meeting Rail Provides a thermal blanket around sashes
- Dual Foam-Tite Seals on Bottom of Lock Sash Virtually eliminate air and water infiltration
- Easy Lift Nylon Handles (Earthtone color standard)
- Round Housing Lock-(Earthtone color standard) Security and peace of mind
- Sentry Night Latches-(Earthtone color standard) Safely ventilate your home
- Recessed Tilt Latches-(Earthtone color standard) *Provide easy access to sash tilting feature*
- Locking Zinc Tilt Pins Prevent accidental sash displacement during window cleaning

# Options

- <u>ENERGY STAR</u> qualified with <u>Super Peak Performance<sup>™</sup> Glass</u>, a triple pane insulating glass Gas and Warm-Edge Technology
- DreamGlas® Gallery Collection; Jewel Cut, Color & Caming
- Obscure and Tinted Glass
- Earthtone or Vycap Safari Brown Colors
- Natural WoodGrain Interior-paintable and stainable interior synthetic laminate in Oak or Pine
- Exclusive Circle Sash<sup>™</sup> Muntin Design
- Maintenance-Free Grids in a variety of styles
- Light Oak or Amber Oak Grain Internal Grids
- Powder-Coated, Painted Metal Handles & Locks in White or Earthtone Colors
- Brushed Nickel or Brass Electroplated Metal Handles & Locks
- SureLock Locking Lock (White or Earthtone Only)
- Full-Screen, Aluminum Half Screen
- Foam Frame Wrap

See more Double Hung Window images in our photo gallery.

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Thermal Industries, Inc.:  $\ensuremath{\mathsf{Dream}}\xspace \ensuremath{\mathbb{R}}\xspace$  Wood Double Hung Window





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**Green Commitment** 

Thermal Industries, Inc.: Sellebrity 900 Series Double Hung Window



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.

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Features						Second
reatures						Avenue
Solid Vinyl, Multi-Chambered Constru	ction					 Pittsburgh,
Will not chip, peel or rot; never requi	PA					
, ,	, <u>, , , , , , , , , , , , , , , , , , </u>					15207
Parallel I-Beam Construction						800.245.1540

Provides increased strength, durability and structural integrity

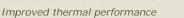
- Dedicated Pocket Header
   Provides a clean interior appearance and prevents air infiltration
- Sloped Weather-Trac Sill A weather-inhibiting pocket that significantly improves water drainage and air infiltration ratings
- Fully Welded and Weeped Sill Provides excellent water resistance and structural integrity; 300% stronger welds than other window products on the market
- Block and Tackle Balances with Draft Sentry



Provide years of smooth and easy sash operation

 Balance Covers Provide a clean, aesthetically pleasing appearance

#### creen removal and improves



- Intercept Warm-Edge Technology Reduces condensation and seal failures and improves thermal performance
- Extruded Integral Vinyl Interlocks Draw sashes tight to form weather barrier
- Triple Wall "Easy-Grip" Vinyl Lift Rails Full width rails assure easy sash operation
- Double Woolpile Seal at Meeting Rail Provides a thermal blanket around sashes
- Dual Foam-Tite<sup>™</sup> Seals on Sill Prevent air infiltration
- External Beefy Lock(s) with Double-Strength Stainless Steel Keeper(s) Security and peace of mind
- Sentry Night Latches Safely ventilate your home
- External Tilt Latches Provide easy access to sash tilting feature
- Locking Zinc Tilt Pins Prevent accidental sash displacement during window cleaning

#### Options

- ENERGY STAR qualified with Peak Performance™ Glass, a dual pane insulating glass package with Low-E, Argon Gas and
- Warm-Edge Technology



Thermal Industries, Inc.: Sellebrity 900 Series Double Hung Window

• ENERGY STAR qualified weith Super Peak Performance<sup>™</sup> Glass, a triple pane insulating glass package with Low-E, Krypton

- Gas and Warm-Edge Technology
- Obscure and Tinted Glass
- DreamGlas<sup>®</sup>; Jewel Cut, Color and Caming
- Exclusive Circle Sash<sup>™</sup> Muntin Design
- Shaped Accent Windows in a Variety of Styles
- Brass or Brushed Nickel Lock and Keeper
- SureLock Locking Lock
- Earthtone or Vycap Safari Brown Colors
- Natural WoodGrain-paintable and stainable interior synthetic laminate in Oak or Pine
- <u>Maintenance-Free Grids</u> in a Variety of Styles
- Foam Frame Wrap
- Locking Fiberglass Half Screen
- Full Screen, Aluminum Screen

See more <u>Double Hung Window images</u> in our photo gallery.

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# Patio Doors

SafeHarbor Impact-Hurricane Windows

**ENERGY STAR** 

**Remodel / Replace Resource Center** 

Patio Enclosures / Sunrooms



ENERGY STAR

Garden Windows

Home >>>

All Thermal Industries 290 Garden Windows specified with either our Peak or Super Peak Performance<sup>™</sup> Glass packages are ENERGY STAR® qualified for all 50 states.

Add light and space while creating your own tropical oasis in the kitchen, bath or

family room with Thermal Industries' Garden Windows.

light to shine through and nourish plants and flowers.

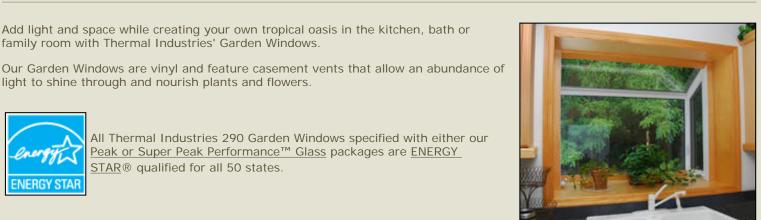
Garden Window 290 Garden Window 195

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**Railing Products** 

**Decking Products** 

Light Commercial



Thermal Industries, Inc.: Garden Windows

Products



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.

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#### **Vinyl Windows**

- # Bay and Bow
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- M Double Hung
- 🕫 Garden
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     Garden Window</u>
     <u>290</u>
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- Hopper/Basement
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#### Patio Doors

- SafeHarbor Impact-Hurricane Windows
- **ENERGY STAR**
- Remodel / Replace Resource Center
- Patio Enclosures / Sunrooms
- Decking Products
- Railing Products
- Light Commercial



# Garden Window 290

Home ≫

Our garden windows are ideal for areas where extra light is needed. Our garden windows are designed to keep you warm in the winter and cool in the summer! You can place your delicate flowers and plants on our durable garden window shelves and watch them grow!

### Features

- Solid Vinyl, Multi-Chambered Construction Will not chip, peel or rot; never requires scraping or painting
- Fully-Welded Frame & Sashes Provide added strength and enhanced thermal performance
  - Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology For enhanced thermal performance; reduces condensation and seal failures
  - Trapezoid-Shaped Casement Vents
  - Hand-Sanded 1-1/4-inch Birch Veneer Surround Smooth, even surfaces enable you to capture your room's warm, even tones, using your choice of paint or stain.
  - Pine Colonial-Style Casing

#### Thermal Industries, Inc.: Garden Window 290



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.



- Safety Laminated Glass Roof
- Custom-Made Wall Thicknesses
- White Color

#### Options

• ENERGY STAR qualified with Peak Performance<sup>™</sup> Glass, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology

• ENERGY STAR qualified with Super Peak Performance<sup>™</sup> Glass, a triple pane insulating glass package with Low-E, Krypton Gas and Warm-Edge Technology

- DreamGlas<sup>®</sup> Gallery Collection: Jewel Cut, Etched, Color & Camed Panels
- High-Grade Oak Veneer Surround
- Colonial Oak Casing
- Maintenance-Free Grids in a variety of styles
- Natural WoodGrain-Paintable/Stainable Interior Synthetic Laminate in Pine or Oak
- Earthtone or Vycap Safari Brown Exterior Colors
- Garden Window Shelf
- Sill Muffler for Added Insulation

See more Garden Window images in our photo gallery.

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nto a safe home environment

	Thermal Industries, Inc.
<ul> <li>Vinyl Windows</li> <li>Bay and Bow</li> <li>Casement and Awning</li> <li>Double Hung</li> <li>Double Hung</li> <li>Garden</li> <li>Garden Window 290</li> <li>Garden Window 195</li> <li>Hopper/Basement</li> <li>Single Hung</li> <li>Slider</li> <li>Picture/Specialty Shapes</li> <li>Options</li> </ul>	Home       Company       Contact Us       Financing       News       Photo Gallery       Dealer         Image: Company       Image: Contact Us       Image: Contact Us </th
Warranty Information     Patio Doors     SafeHarbor Impact- Hurricane Windows     ENERGY STAR	<ul> <li>Fully-Welded Frame &amp; Sashes</li> <li>Provide added strength and enhanced thermal performance</li> <li>Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology</li> <li>For enhanced thermal performance; reduces condensation and seal</li> </ul>
<ul> <li>Remodel / Replace Resource Center</li> <li>Patio Enclosures / Sunrooms</li> <li>Decking Products</li> </ul>	<ul> <li>For emanded thermal performance, reduces condensation and sear failures</li> <li>Two Rectangular-Shaped Casement Vents</li> <li>Hand-Sanded 1-1/4-inch Birch Veneer Surround Smooth, even surfaces enable you to capture your room's warm, even tones, using your choice of paint or stain.</li> </ul>
<ul> <li>Railing Products</li> <li>Light Commercial Products</li> <li>Green Commitment</li> </ul>	<ul> <li>Corrosion-Resistant Hardware Protects exterior window parts from the corroding effects of weather and UV light.</li> <li>Wood Knee Brace Supports</li> <li>Two Lites of Triple Strength Glass in Roof</li> </ul>
	Custom-Made Wall Thicknesses     Concealed Hinge Casement Vents with Color Matched Screens



• Insulated Foam Triangle with Color-Matched UV Stable Thermo-Plast

• White Color

#### Options

Thermal Industries is proud to offer our customers products with the ENERGY STAR label.

- Decorative Jewel Cut or Etched Glass Lites
- High-Grade Oak Surround
- Colonial Ranch Casing
- Maintenance-Free Grids
- ENERGY STAR qualified with Peak Performance<sup>™</sup> Glass, a dual pane insulating glass package with Low-E, Argon Gas
- and Warm-Edge Technology
- Earthtone Color
- Garden Window Shelf
- Sill Muffler for Added Insulation

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- Extruded Aluminum Screen Rail
- Fiberglass Screen
- White Color

#### Options

• <u>ENERGY STAR</u> qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology

Thermal Industries is

Green Commitment

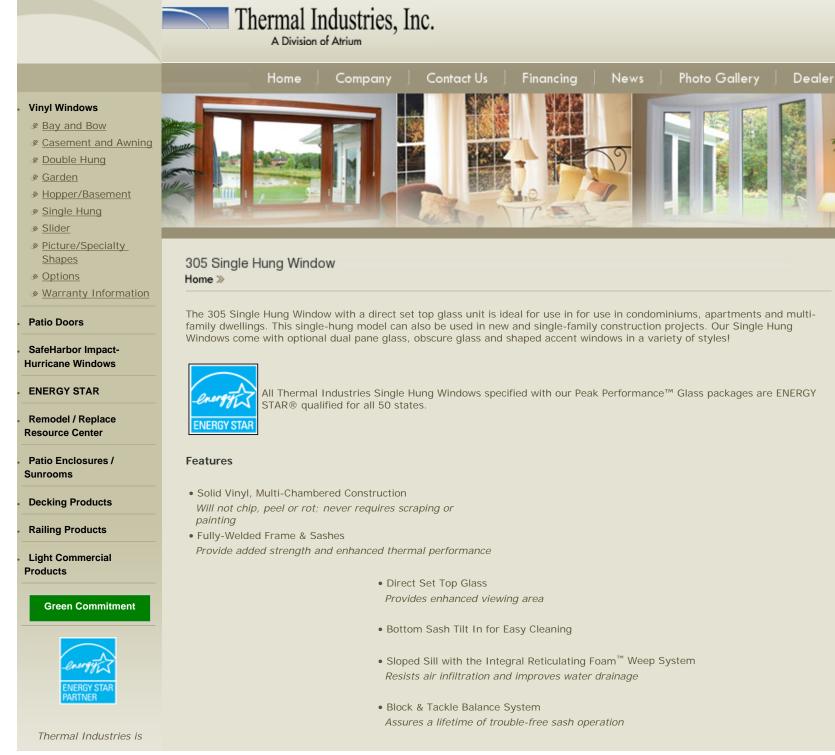
Thermal Industries, Inc.: Hopper/Basement Windows

proud to offer our customers products with the ENERGY STAR label.	<ul> <li><u>ENERGY STAR</u> qualified with <u>Super Peak Performance™ Glass</u>, a triple pane insulating glass package with Low-E, Krypton Gas and Warm-Edge Technology</li> <li>Obscure &amp; Tinted Glass</li> <li><u>Earthtone color or Vycap Safari Brown Exterior Laminate</u></li> <li><u>Natural WoodGrain</u>-Paintable/Stainable Interior Synthetic Laminate in Pine or Oak</li> <li>Aluminum Screen</li> </ul>
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http://www.thermalindustries.com/vinyl-windows/single-hung/ (1 of 3) [10/08/2008 9:11:35 AM]

proud to offer our customers products with the ENERGY STAR label.



• Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology For enhanced thermal performance; reduces condensation and seal failures

• Full Interlock with Dual Q-Lon & Finseal Weather-Stripping Seals at Meeting Rail Provides enhanced security and prevents air and water infiltration

#### easy sash operation

Provides security

- Half Screen
- White Color

#### Options

• ENERGY STAR qualified with Peak Performance<sup>™</sup> Glass, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology

- Obscure Glass
- Shaped Accent Windows in a Variety of Styles
- Earthtone Color
- Maintenance-Free Internal\* Grids: Square, Flat, Contour Wide, Contour Narrow



See more Single Hung Window images in our photo gallery.

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# Thermal Industries, Inc.

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#### Patio Doors

SafeHarbor Impact-Hurricane Windows

#### **ENERGY STAR**

- Remodel / Replace Resource Center
- Patio Enclosures / Sunrooms
- Decking Products
- **Railing Products**



#### Slider Windows

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**Enhanced Energy Savings** 



All Thermal Industries Slider Windows specified with either our <u>Peak or Super Peak Performance<sup>™</sup> Glass</u> packages are <u>ENERGY STAR</u>® qualified for all 50 states.

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Thermal Industries, Inc.: Slider Windows
```

Convenience You Can Count On
Mounted on brass wheels, our slider vinyl replacement windows smoothly glide horizontally across their tracks allowing you to open your vinyl replacement windows and enjoy fresh air with ease. Plus, lift-out sashes make cleaning your slider vinyl replacement windows a snap!
Value-Line 305 Slider Euroweld Slider
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## Thermal Industries, Inc. A Division of Atrium

#### **Vinyl Windows**

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#### Patio Doors

SafeHarbor Impact-**Hurricane Windows** 

#### **ENERGY STAR**

- **Remodel / Replace Resource Center**
- Patio Enclosures / Sunrooms
- **Decking Products**
- **Railing Products**



#### Value-Line 305 Slider Window

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#### **Features**



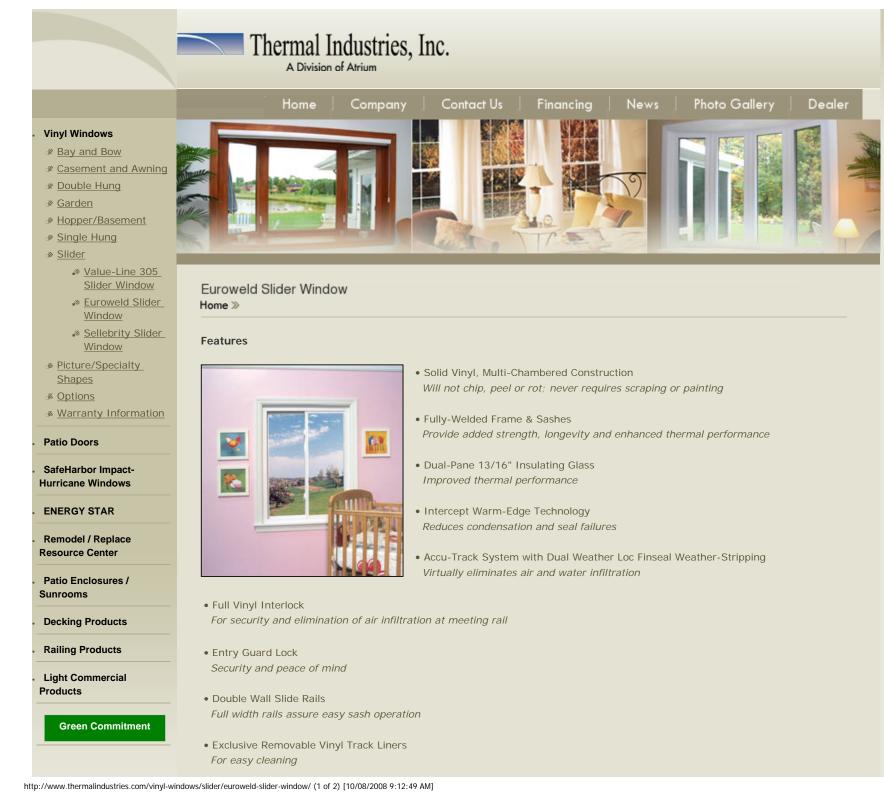
#### Options

- Solid Vinyl Construction
- Interlocking Sashes with Q-Lon & Finseal Weather-Stripping Seals at Meeting Rail
- Round Housing Lock
- Continuous Vinyl Slide Rails
- Night Vent Latch
- Integral, Dual Tandem Brass Roller Wheels are self-aligning and easily glide along the Monorail Track Liner
- Removable Track Liners lift out of the mainframe for easy cleaning
- ENERGY STAR qualified with Peak Performance™ Glass, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology
- Obscure Glass
- Shaped Accent Windows in a Variety of Styles
- Square, Flat, Contour Wide, Contour Narrow
- Half Screen

- Earthtone Color
- Maintenance-Free Internal\* Grids:

Thermal Industries, Inc.: Value-Line 305 Slider Window





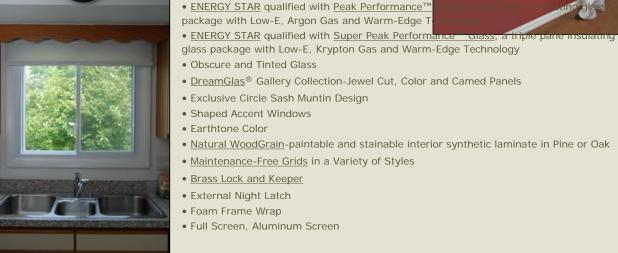


Thermal Industries is proud to offer our customers products with the ENERGY STAR label. Monorail Track System
 Provides easy sash operation

• Dual Brass Roller Wheels Self-aligning to reduce friction and operating force when opening/closing sashes

- Fiberglass Half Screen
- White Color

#### Options



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#### Vinyl Windows

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#### Patio Doors

SafeHarbor Impact-Hurricane Windows

#### **ENERGY STAR**

- Remodel / Replace Resource Center
- Patio Enclosures / Sunrooms
- Decking Products
- **Railing Products**



#### Sellebrity Slider Window

Home »

#### Features

- Solid Vinyl, Multi-Chambered Construction Will not chip, peel or rot; never requires scraping or painting
- Fully-Welded Frame & Sashes Provide added strength, longevity and enhanced thermal performance
- Dual-Pane 13/16" Insulating Glass Improved thermal performance
- Intercept Warm-Edge Technology Reduces condensation and seal failures
- Beveled Screen Track Stiffen frame, enables easy screen removal and improves aesthetics
- Contoured, Externally Glazed Flex-Seal Design Clean interior lines provide a picture frame appearance
- Full Vinyl Interlock



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Thermal Industries, Inc.: Sellebrity Slider Window
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# Light Commercial Products Green Commitment

Thermal Industries is proud to offer our customers products with the ENERGY STAR label.

- For security and eliminating air infiltration at meeting rails
- Double Finseal Woolpile at Meeting Rail Virtually eliminates air and water infiltration
- Triple Wall Vinyl Slide Rails Full width rails assure a lifetime of easy sash operation
- External Beefy Lock(s) with Double-Strength Stainless Steel Keeper(s) *Provide security and peace of mind*
- Sentry Night Latch Provides safer ventilation
- Monorail Track System
   Enables easy sash operation
- Multiple Brass Roller Wheels Self-aligning to reduce friction and operating force
- Exclusive Removable Track Liners *For easy cleaning*
- Fiberglass Half Screen
- White Color

#### Options

• <u>ENERGY STAR</u> qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology

• <u>ENERGY STAR</u> qualified with <u>Super Peak Performance<sup>™</sup> Glass</u>, a triple pane insulating glass package with Low-E, Krypton Gas and Warm-Edge Technology

- Obscure and Tinted Glass
- DreamGlas Gallery Collection-Jewel Cut, Color and Camed Panels
- Exclusive Circle Sash Grid Design
- Shaped Accent Windows
- Earthtone or Vycap Safari Brown Colors
- Natural WoodGrain-paintable and stainable interior synthetic laminate in Pine or Oak
- Maintenance-Free Grids in a Variety of Styles
- Brass or Brushed Nickel
- SureLock Locking Lock

Foam Frame Wrap
 See more <u>Slider Window images</u> in our photo gallery.
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#### **Patio Doors**

SafeHarbor Impact-Hurricane Windows

#### **ENERGY STAR**

Remodel / Replace Resource Center

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Light Commercial Products

#### **Green Commitment**



#### Picture and Specialty Shaped Windows

Home »

Thermal Industries offers a wide variety of shaped vinyl replacement windows! These windows look unique as a stand-alone window, or they can be combined with other window styles in multi-window configurations to add a decorative accent or to enhance your home's architecture. We also have full-circle, quarter arch, and parallelogram-shaped specialty windows!



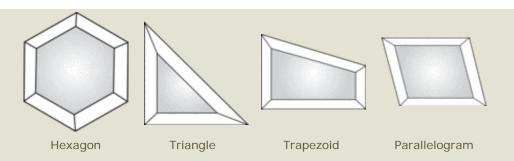
All Thermal Industries Picture Windows specified with either our Peak or Super Peak Performance<sup>™</sup> Glass packages are ENERGY STAR<sup>®</sup> qualified for all 50 states.



#### Thermal Industries, Inc.: Picture and Specialty Shaped Windows



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.



#### Shaped Window Features:

- Solid Vinyl, Multi-Chambered Construction Will not chip, peel or rot; never requires scraping or painting
- Fully-Welded Frame & Sashes Provide added strength and enhanced thermal performance
- Dual-Pane 13/16" Insulating Glass with Warm-Edge Technology For enhanced thermal performance; reduces condensation and seal failures
- White Color

#### **Shaped Window Options:**

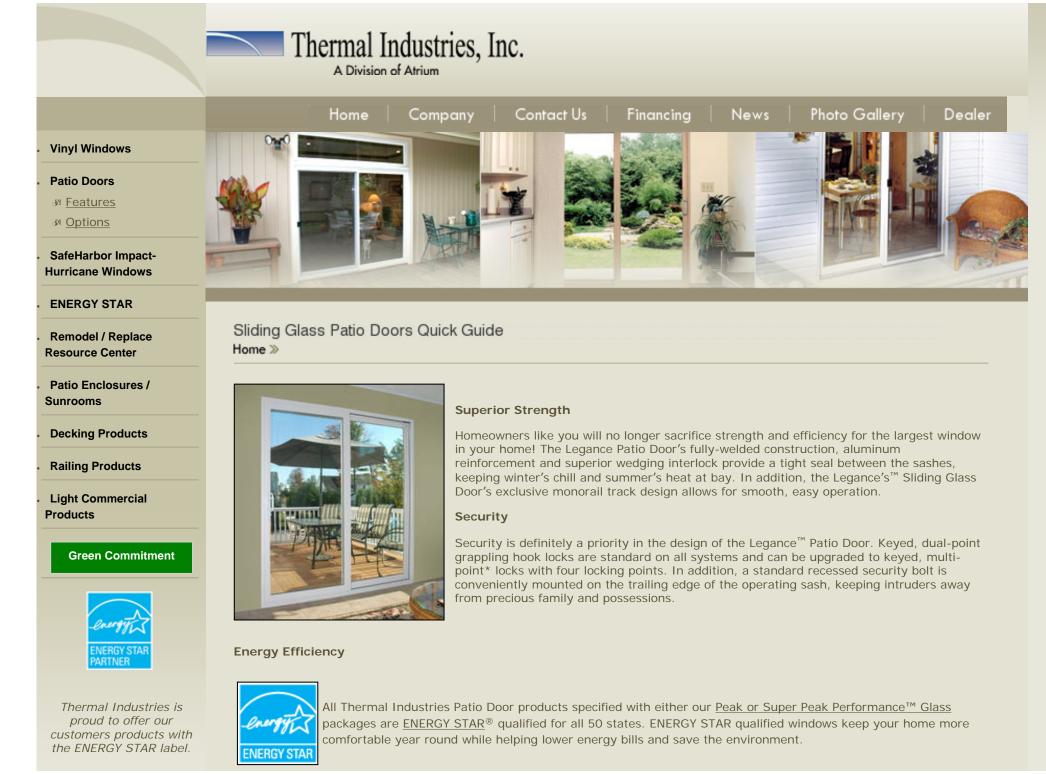
- Earthtone or Vycap Safari Brown Color
- <u>ENERGY STAR</u> qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology
- <u>ENERGY STAR</u> qualified with <u>Super Peak Performance<sup>™</sup> Glass</u>, a triple pane insulating glass package with Low-E, Krypton Gas and Warm-Edge Technology
- Obscure and Tinted Glass
- <u>DreamGlas</u><sup>®</sup>; Jewel Cut, Color and Caming
- Natural WoodGrain-paintable and stainable interior synthetic laminate in Oak or Pine

See more Picture Window images in our photo gallery.

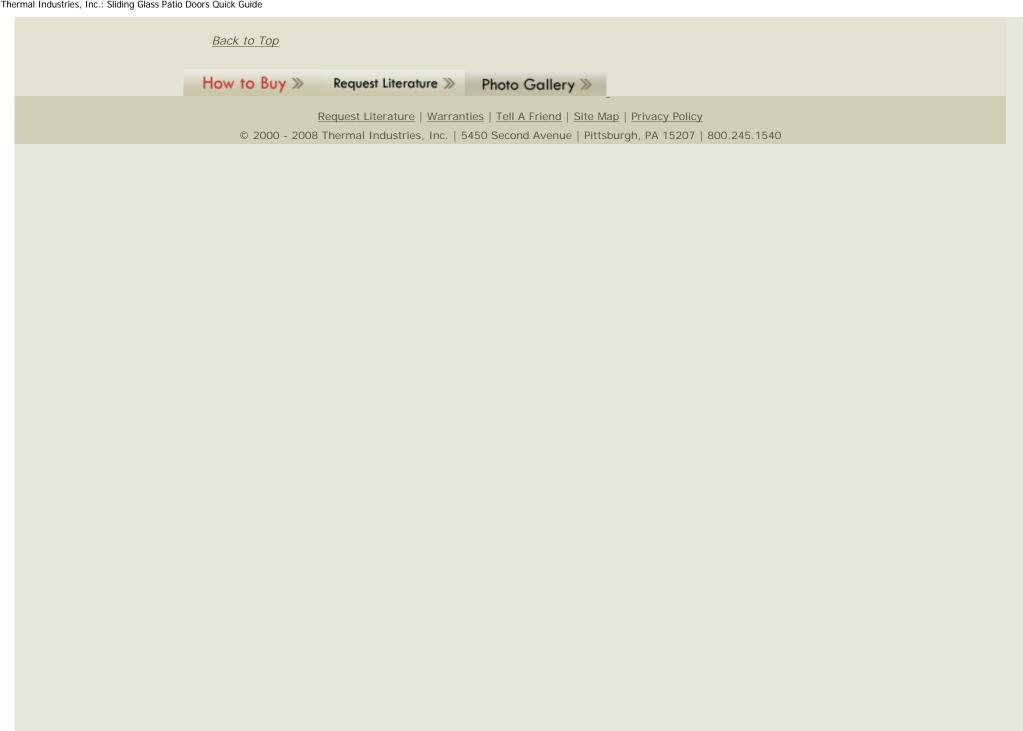
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Thermal Industries, Inc.: Sliding Glass Patio Doors Quick Guide



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• SafeHarbor Impact- Hurricane Windows	
. ENERGY STAR	
Remodel / Replace Resource Center	Legance Patio Door Options Home ≫
• Patio Enclosures / Sunrooms	The Legance™ Sliding Glass Patio Door offers a wide range of options to add character to your patio door while complementing the décor of your home. Choose from two or three panel door styles, decorative grid accents and classic hardware options.
Decking Products	You can also opt for a stained-glass look in your Legance <sup>™</sup> Sliding Glass Patio Door by selecting from the elegant glass patterns in the DreamGlas® Gallery Collection. For additional privacy and the ultimate in convenience, our inside-the-
. Railing Products	glass, tilting mini-blinds** are the perfect solution.
Light Commercial Products	French Style Door:
Green Commitment	• Features an 8-1/2" high color-coordinated reinforced kick panels for insulation and aesthetics
ENERGY STAR PARTNER	Hardware:
Thermal Industries is proud to offer our customers products with the ENERGY STAR label.	Elegant Brass Locking Door Handle
	Elegant Brushed Nickel Locking Door Handle
	Multi-Point Lock with Key Lock (Brass Only)

Glass:

- <u>ENERGY STAR</u> qualified with <u>Peak Performance<sup>™</sup> Glass</u>, a dual pane insulating glass package with Low-E, Argon Gas and Warm-Edge Technology
- <u>ENERGY STAR</u> qualified with <u>Super Peak Performance</u><sup>™</sup> <u>Glass</u>, a triple pane insulating glass package with Low-E, Krypton Gas and Warm-Edge Technology
- DreamGlas<sup>®</sup> Gallery Collection; Jewel Cut, Color and Caming
- Decorative Grids in a variety of patterns and styles



• Tilt-Only, Inside-the-Glass, White Mini-Blinds

\*\*(Available in 5' and 6'-size patio doors only. NOT available with the following options: French-Style Door, Peak or Super Peak Performance Glass, Custom-Sizes)

#### Color:

- Earthtone or Safari Brown Laminate Colors
- Natural WoodGrain paintable/stainable interior synthetic laminate in Oak or Pine

#### Sizes:

5', 6' and 8' two-panel configurations
9' and 12' three-panel configurations



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**Vinyl Windows** 

#### Patio Doors

#### SafeHarbor Impact-Hurricane Windows

- 34 Single Hung
- M Double Hung
- M Single Slide
- <u>Patio Doors</u>

#### **ENERGY STAR**

Remodel / Replace Resource Center

Patio Enclosures / Sunrooms

**Decking Products** 

**Railing Products** 

Light Commercial Products

#### Green Commitment

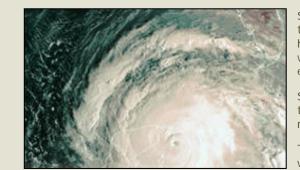


Thermal Industries is proud to offer our



# SafeHarbor Vinyl Impact Windows and Patio Doors

Make Your Home A SafeHarbor®



SafeHarbor<sup>®</sup> Vinyl Impact windows and sliding glass doors are engineered to protect you and your home against dangerous weather, including hurricane force winds. Reducing the possibility of flying debris penetrating the window results in a lessened possibility of structural and water damage or even total destruction.

SafeHarbor products are designed to look like traditional windows and doors, but they are constructed of impact-resistant safety glass embedded in heavy duty, reinforced frames.

The Design Pressure ratings of SafeHarbor windows and doors meet coastal wind and hurricane debris code requirements.

SafeHarbor Vinyl Impact windows and sliding glass doors provide an added measure of safety to help protect your home.

#### **Impact-Resistant Glass Construction**

SafeHarbor windows feature laminated safety glass combined with a thermally-efficient insulating glass system.

The exterior lite consists of a single glass pane. The interior lite is constructed of two glass panes laminated with an interlayer membrane that becomes transparent during the laminating process and forms a protective panel.

Thermal Industries, Inc.: SafeHarbor Vinyl Impact Windows and Patio Doors



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- Remodel / Replace Resource Center
- Patio Enclosures / Sunrooms
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- Light Commercial Products

#### Green Commitment



Thermal Industries is proud to offer our customers products with the ENERGY STAR label.



meet all <u>AAMA</u>/American Architectural Manufacturers Association specifications for hurricane impact and cycle testing standards.

Single hung tilt-in windows feature a fixed top sash and a bottom sash that operates vertically and tilts in for easy cleaning from inside the home. Series 250 windows

Features:

- Vinyl impact construction meets AAMA hurricane debris test protocol
- Laminated glass system with .090" PVB interlayer Provides impact resistance and reduces outdoor sound transmission
- 7/8" insulated glass panel with warm edge spacer system *Provides energy saving thermal performance*
- Certified DP55
- Block and tackle balance system on sizes up to 36" x 72" Allows easy sash movement
- Heavy-duty spiral balance system

Designed specifically for larger glass is standard on sizes up to 54" x 74"

- Double, reinforced interlocks Provide exceptional structural integrity, strength and security
- Multi-chambered frame assembly
   Improves thermal performance and helps enhance sound absorbency
- Aluminum reinforced bottom rail Enhanced structural performance
- Push button cam-lock and keeper Help provide a weather-tight seal and added security
- Integral pull rail Makes it easy to open and close the sash
- Heavy-duty construction
   Qualified for use in a wide variety of construction applications
- Precision-mitered, fusion welded corners Enhanced structural integrity
- Concealed drainage system Keeps dust out and water drainage clear
- Available in complementary horizontal slider, picture window and special shapes
- \*Half screen is standard
- White standard, almond optional

#### Options:

- Low-E glass
- ENERGY STAR qualified with Low-E glass with Argon gas
- Flat and contoured grids available

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**Vinyl Windows** 

#### Patio Doors

#### SafeHarbor Impact-Hurricane Windows

- 34 Single Hung
- a Double Hung
- M Single Slide
- # Patio Doors

#### **ENERGY STAR**

#### Remodel / Replace Resource Center

- Patio Enclosures / Sunrooms
- **Decking Products**
- **Railing Products**

Light Commercial Products

#### Green Commitment



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# SafeHarbor 255 Double Hung Windows



#### Features:

- Vinyl impact construction Meets AAMA hurricane debris test protocols
- Laminated Glass System with .090" PVB interlayer *Provides impact resistance*

Both sashes on Series 255 double hung windows operate vertically and tilt in. These windows are perfect for second or higher stories where cleaning from the outside would otherwise require a ladder. Series 255 double hung windows were created to resist hurricane force winds and meet code specifications.

#### Thermal Industries, Inc.: SafeHarbor 255 Double Hung Windows

 ernar mudstnes, me.: Satenarbor 255 Dour	
customers products with the ENERGY STAR label.	• 7/8" insulated glass panel with warm edge spacer system Provides energy saving thermal performance
	• Certified DP50 (Maximum size: 36" x 72")
	<ul> <li>Block and tackle balance system assures easy sash action</li> </ul>
	Both sashes tilt in for easy cleaning from the inside
	Double, reinforced interlocks
	Resist weather infiltration
	Multi-chambered frame assembly
	Improves thermal performance and helps enhance sound absorbency
	Aluminum reinforced bottom rail
	For enhanced structural performance
	Push button cam-lock and keeper
	Help provide a weather-tight seal and added security
	Integral pull rails make it easy to open and close both sashes
	Heavy-duty construction
	Qualified for use in a wide variety of construction applications
	Precision-mitered, fusion welded corners
	For advanced structural integrity
	Concealed drainage system
	Keeps dust out and water drainage clear
	Available in complementary picture window and special shapes
	White standard, almond optional
	*Half screen is standard, full screen optional
	Options:
	• Low-E glass

Thermal Industries, Inc.: SafeHarbor 255 Double Hung Windows

<ul> <li>ENERGY STAR qualified with Low-E glass with Argon gas</li> </ul>
Flat and contoured grids available
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**Vinyl Windows** 

#### Patio Doors

#### SafeHarbor Impact-Hurricane Windows

- 34 Single Hung
- M Double Hung
- M Single Slide
- # Patio Doors

#### **ENERGY STAR**

#### Remodel / Replace Resource Center

- Patio Enclosures / Sunrooms
- **Decking Products**
- **Railing Products**
- Light Commercial Products

#### Green Commitment



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# SafeHarbor 250 Horizontal Sliding Windows



Horizontal sliding windows are the perfect choice for large areas, or where a horizontal opening is preferred. They glide easily, meet specifications for hurricane impact and cycle testing standards and are designed to look like traditional windows.

### Features:

- Vinyl impact construction Meets AAMA hurricane debris test protocols
- Laminated Glass System with .090" PVB interlayer *Provides impact resistance*
- 7/8" insulated glass panel with warm edge spacer system *Provides energy saving thermal performance*
- Certified DP50 (Maximum size: 74" x 54")

http://www.thermalindustries.com/safeharbor-impact-hurricane-windows/single-slide/ (1 of 2) [10/08/2008 9:48:41 AM]

#### Thermal Industries, Inc.: SafeHarbor 250 Horizontal Sliding Windows

Ine	nermai industries, inc.: SaleHarbor 250 Horizonta	i sirang winaows
	customers products with the ENERGY STAR label.	Tandem brass rollers
		Glide over raised track for smooth effortless operation
		Double, reinforced interlocks
		Resist weather infiltration
		Multi-chambered frame assembly
		Improves thermal performance and helps enhance sound absorbency
		Push button cam-lock and keeper
		Help provide a weather-tight seal and added security
		Heavy-duty construction is qualified for use in a wide variety of construction applications
		Precision-mitered, fusion welded corners
		For advanced structural integrity
		Concealed drainage system
		Keeps dust out and water drainage clear
		Available in complementary single hung, picture window and special shapes
		White standard, almond optional
		*Half screen is standard
		Options:
		• Low-E glass
		ENERGY STAR qualified with Low-E glass with Argon gas
		Flat and contoured grids available
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## Thermal Industries, Inc. A Division of Atrium

#### **Vinyl Windows**

#### Patio Doors

#### SafeHarbor Impact-**Hurricane Windows**

- **3** Single Hung
- Double Hung
- M Single Slide
- **Patio Doors**

#### **ENERGY STAR**

**Remodel / Replace Resource Center** 

Patio Enclosures / Sunrooms

- **Decking Products**
- **Railing Products**

**Light Commercial** Products

#### Green Commitment



Thermal Industries is proud to offer our



#### SafeHarbor 352 Sliding Patio Door Home >>>



These high-performance vinyl impact sliding glass doors feature a laminated, tempered glass construction that screens out ultraviolet light, reduces outside noise pollution and reduces solar heat gain while protecting your home from flying debris.

#### Features:

- Vinyl impact construction Meets AAMA hurricane debris test protocols
- Laminated Glass System with .090" PVB interlayer Provides impact resistance

http://www.thermalindustries.com/safeharbor-impact-hurricane-windows/patio-doors/ (1 of 2) [10/08/2008 9:49:03 AM]

#### Thermal Industries, Inc.: SafeHarbor 352 Sliding Patio Door

116	iermai Industries, Inc.: SateHardor 352 Siidir	
	customers products with the ENERGY STAR label.	• 1" insulated glass panel with warm edge spacer system Provides energy saving thermal performance
		Certified DP60 in select sizes (Maximum size: 8'0" x 8'0")
		Multi-point locking system improves security
		• Operable panels feature heavy-duty, tandem ball bearing rollers with 2" diameter wheels For durable, easy operation
		Multi-chambered frame assembly     Improves thermal performance and helps enhance sound absorbency
		Dual weather sealed interlock
		Blocks air and water infiltration
		Precision-mitered, fusion welded frame and panel corners
		For enhanced structural integrity
		Concealed drainage system
		Keeps dust out and water drainage clear
		*Screen is standard
		White standard, almond optional
		Options:
		• Low-E glass
		<ul> <li><u>ENERGY STAR</u> qualified with Low-E glass with Argon gas</li> </ul>
		Flat and contoured grids available
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#### What is ENERGY STAR?

ENERGY STAR is a government backed program developed to simplify purchasing decisions for consumers by assuring products meet or exceed strict energy efficiency criteria set by the U. S. Department of Energy. For more information, visit the ENERGY STAR website at <u>www.energystar.gov</u>.

What makes ENERGY STAR qualified windows and doors energy efficient?

Thermal Industries is

proud to offer our

customers products with

the ENERGY STAR label.

#### Some of the technologies that window manufacturers can use to fabricate ENERGY STAR qualified windows include:

- · Improved framing materials such as vinyl.
- Two or more panes of glass with a Low-E coating that blocks UV rays and reduces solar heat.
- Warm edge spacers, such as foam, that keep the panes separated without acting as a conductor to help fight heat loss and reduce condensation.
- Argon or krypton gas fills between the panes provide better insulation. These gases are odorless, colorless, and nontoxic.

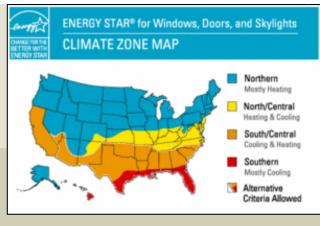
#### Benefits of ENERGY STAR qualified Windows and Doors

- New, ENERGY STAR qualified windows can help **reduce your energy bill** up to 15 percent. Estimated savings vary from region to region depending on current heating and cooling costs. Savings are generally greatest where there are hot summers, cold winters or both.
- **Comfort when it's cold.** The cold, inside surface of an inefficient window pulls heat away from your body, which can make you feel chilly. With ENERGY STAR qualified windows, the interior glass stays warmer, enabling you to sit near a window even when the outside temperature dips below freezing.
- Reduced condensation. On winter mornings, inefficient windows and window frames get too cold, causing indoor moisture to condense on the interior surface of your windows. Over time, condensation can damage sills, crack interior paint and encourage the growth of mold. Advanced technologies enable ENERGY STAR qualified windows to keep the interior of a window's glass and frame warmer, reducing the potential for condensation.
- Shielding from summer heat. In summer, inefficient windows can seem like giant heat lamps. A typical double-paned, clear-glass window allows approximately 75 percent of the sun's heat into your home. Most ENERGY STAR qualified windows transmit less heat, usually without reducing visible light, giving you light, but a lot less heat.
- Safeguarding your home's interior. Most Low-E coatings can reduce fading caused by repeated exposure to direct sunlight by up to 75 percent. These coatings act like a sunscreen for your home, blocking damaging ultraviolet rays with out noticably reducing visible light.
- Financial Incentives. Several states offer rebates for purchasing ENERGY STAR qualified windows and doors. For a detailed list and contact information, visit <u>www.energystar.gov/rebatefinder</u>.

#### **Buy with Confidence**

When shopping for windows and doors, ask for products that have earned the ENERGY STAR label. Every ENERGY STAR qualified window and door is independently certified to perform at levels that meet or exceed strict energy-efficiency guidelines recommended by the U.S. Department of Energy.

**Find the window that's right for you.** The ENERGY STAR criteria for windows and doors are tailored to climate regions (see map below). When window shopping, be sure to look for the ENERGY STAR label to ensure the windows or doors you purchased are qualifed for the climate zone you live in.



To find out more about ENERGY STAR qualified windows and doors, and determine the climate zone you live in, visit <u>www.energystar.gov/windows</u>.

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Vinyl Windows

**Patio Doors** 

SafeHarbor Impact-Hurricane Windows

**ENERGY STAR** 

## Remodel / Replace Resource Center

- Why Buy Replacement Windows?
- Window Design Ideas
- <u>Care and</u> <u>Maintenance Tips</u>
- Condensation
- Window Safety

Patio Enclosures / Sunrooms

**Decking Products** 

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Light Commercial Products

Green Commitment



# Replacement Windows FAQ s

Home »

You can find everything you ever wanted to know about our Replacement Windows right here! From learning what our windows are made of, to determing the best way to clean them, you'll find all of the answers you're looking for!

### What is a vinyl replacement window?

A replacement window is a window designed to fit into an existing window opening. Vinyl replacement windows are made from 100% PVC. The combined strength of the multi-chambered frames and sashes and fusion-welded corners, make vinyl windows one of the most reliable and energy efficient windows that you can purchase.

### What is insulating glass?

Insulating glass consists of two pieces of glass sealed to a spacer. This creates an insulated air space between the two pieces of glass, resulting in better thermal performance. Insulated glass also reduces condensation while keeping the heat in during the winter, and heat out during the summer.

### What is Low-E Glass?

Low-E (Emissivity) glass is treated with thin, virtually invisible, transparent coatings of various layers including metal oxide and silver. During the winter, Low-E glass allows the sun's natural light and short-wave heat energy to freely pass through while reflecting long-wave heat energy back inside, keeping your home warmer. In the summer, Low-E glass reflects longwave heat energy to the outside keeping your home cooler and, reduces the penetration of the sun's ultraviolet (UV) rays, minimizing the fading of carpet and draperies.

# What is Low-E Glass with Argon Gas? How does it work?

Added inside an insulating glass until with Low-E Glass, Argon gas is an invisible, insulating blanket that replaces most of the air during the manufacturing process. With Low-E reflecting heat away, Argon gas buffers thermal transfer to enhance the performance of the entire glass unit.

# What is Krypton Gas?

Krypton Gas is an inert, odorless, colorless, tasteless, non-toxic gas that is denser than air. It is used to replace air between the glass panes in an insulating glass unit to reduce temperature transfer and deter convection (heat transfer by currents that flow



Thermal Industries is proud to offer our customers products with the ENERGY STAR label. from a warm surface to a colder surface).

#### What is an R-Value?

R-value measures the resistance a material has to heat flow. The higher the R-value, the greater the resistance, and the better the insulating quality.

#### What is a U-Value?

U-value measures the amount of heat transferred through a material. The lower the U-value, the slower the rate of heat flow and the better the insulating value.

#### What is Conduction?

Conduction refers to the energy transfer from one material to another by direct contact.

#### How should I evaluate the energy performance of a window or patio door?

Look for the National Fenestration Ratings Council (NFRC) label on the window or patio door. This label shows the U-Value, Solar Heat Gain, visible light transmittance and condensation resistance values.

#### What is ENERGY STAR?

ENERGY STAR<sup>®</sup> is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices. Energy efficient choices can save families about a third on their energy bill with similar savings of greenhouse gas emissions, without sacrificing features, style or comfort.

ENERGY STAR helps you make the energy efficient choice. If looking for new household products, look for ones that have earned the ENERGY STAR. They meet strict energy efficiency guidelines set by the EPA and US Department of Energy. If looking for a new home, look for one that has earned the ENERGY STAR. If looking to make larger improvements to your home, EPA offers tools and resources to help you plan and undertake projects to reduce your energy bills and improve home comfort. For more information, please visit the ENERGY STAR website at <a href="https://www.energystar.gov">www.energystar.gov</a>.

#### When should I replace my windows?

- When your windows have air leaks and drafts.
- When your heating and cooling bills continue to rise.
- When your windows are difficult to open and close.
- . When your windows do not provide adequate security for your home and family.
- When your windows allow dust and dirt into your home.
- When your windows don't block outside noise.
- When your windows appear foggy.
- When your windows are difficult to clean.
- . When your windows cost you time and money in maintenance.

#### What is the advantage choosing a custom replacement window over windows found in home centers?

The windows found in home centers and/or major lumberyards are typically stock sizes with little or no options. Replacement windows are custom made for each opening in your home, with the ability of choosing many energy saving and aesthetically appealing options.

#### What makes a vinyl window better than a wood window?

Vinyl windows are maintenance free, never needing staining or painting, they won't rot or split and are not susceptible to termites or other wood destroying insects.

#### Do replacement windows reduce condensation inside the home?

Although technology has improved with the inception of warm edge spacer systems, replacement windows will not eliminate condensation inside your home. In some cases replacement windows are so energy efficient condensation may be more evident after the old drafty windows are removed. Condensation and its intensity are directly related to the humidity level inside your home and the cold temperature outside.

#### How long will vinyl replacement windows last?

Thermal Industries Inc. was the first manufacturer in the United States to make a vinyl replacement window almost 50 years ago. We are one of the few manufacturers that have been in business longer than our warranty. Thermal Industries Inc. offers a lifetime warranty on all of its window products.

#### If my window gets broken, how do I fix it?

All of our branch distribution centers have factory trained service employees. Our service technicians can come to your home for service or you may bring any part to our distribution center and order a new replacement.

#### Do replacement windows meet building codes?

All of our products our manufactured to the AAMA standard and meet the NFRC requirements for Fenestration products. National and Local Building Codes may ask for additional requirements to meet codes in your area, such as egress and/or higher DP ratings. Check with your local Building Inspection office to see what the requirements are in your local municipality.

#### Are replacement windows easy to operate and clean?

Yes, all of our products are easy to clean and operate. Our double hung windows have a state of the art block and tackle balance system that is tailor made for your custom window, making it one of the easiest operating windows. They easily tilt in for safer cleaning from the inside of your home. Slider windows glide along a removable track on brass wheels for ease of operation and lift out for cleaning. And our casement window has an effortless operator that opens the window to a 110 degree position that allows for easy cleaning of the outside of the window from inside the home.

#### What is the difference between Bay Windows and Bow Windows?

Bay Windows consist of three windows in a single frame. The center lite is always twice as wide as the sidelites. Generally, Bay Windows are a combination of fixed centers, and two operable flankers (casements or double hung windows). Bay Windows project out from the house wall 30 or 45 degrees. Bow Windows consist of 3,4, or 5 windows in a single frame. All of the windows are equal size, and are generally a combination of fixed centers and two operable flankers (casement or double hung windows.) Bow Windows project from the wall of the house 15 degrees. Bow Windows are similar to Bay windows, but the Bow Window's combination of windows has a more circular arch appearance.

#### What are Air Chambers?

Small honeycomb spaces within the extruded sash and frame profiles, that help to insulate and strengthen the window.

#### What does PVC stand for?

Poly Vinyl Chloride, a plastic compound used in the manufacture of profiles for vinyl replacement windows.

#### What are window sashes?

A sash is the part of the window or door that contains the glass. What does "fusion-welded" mean? Fusion-welding is the process of joining materials by melting them together with extreme heat, resulting in the materials bonding into one piece. All Thermal Industries vinyl replacement windows feature fusion-welded frames and sashes.

#### What is a Balance System?

A balance system is a device for holding vertically sliding sashes in any position through the use of a spring or weight to counter balance the sash.

#### What is DreamGlas?

DreamGlas<sup>®</sup> is a type of glass that can have design patterns cut into the glass, color added to it, or different types of caming added to give the look of a traditional stained glass window.

#### What are Grids or Muntins?

Grids are decorative, horizontal or vertical bars installed between the glass panes to create the appearance of the sash being divided into smaller lites of glass.

	What is Tempered Safety Glass? Tempered Safety Glass is treated with high heat for strength. If tempered safety glass is broken, it will shatter into very small pieces instead of shards. Back to Top	
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Vinyl Windows

## Patio Doors

SafeHarbor Impact-Hurricane Windows

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# Patio Enclosures / Sunrooms

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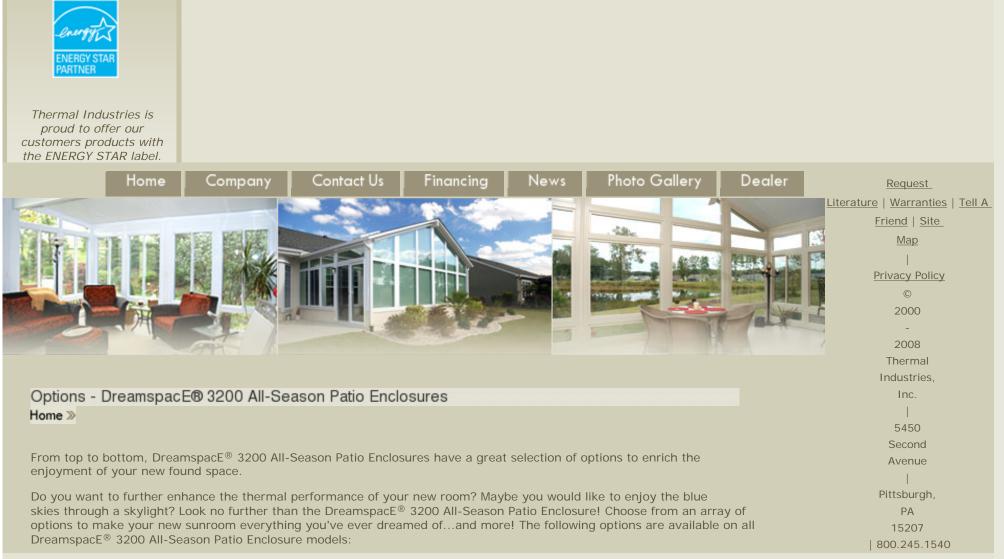
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Wall Options



• Earthtone Color Walls and Windows *Complement your home's exterior.* 



ASA Luran Wall Skins

A durable alternative for your patio enclosure's interior and exterior walls. Will not dent or scratch, assuring a long-lasting, beautiful patio enclosure.



• Glass Kick Panels and Trapeziod Shaped Windows

# **Roof Options**



 Star-Gazer II Skylight standard with Easy Clean Glass Choose fixed or operable units
 Features Peak Performance<sup>™</sup> Tempered Safety Glass with Low-E and Argon Gas

- Extruded Integral Gutter System matches roof
- 6" Roof Panels with insulating value of R-38
- Enhanced Roof Panels

Enables you to add shingles to the roof of your enclosure, creating an aesthetically pleasing transition between the enclosure and house.

# **Glass Option**

# • Peak Performance<sup>™</sup> Dual-Pane LoE2 Insulating Glass with Argon Gas



DreamspacE Patio Enclosures are constructed of Thermal Industries windows and patio doors, which meet or exceed ENERGY STAR criteria in all 50 states with specified Peak Performance Glass.

### **Floor Option**

• Thermo-Dek is a foam core flooring system for your enclosure, featuring an insulating R-Value of 17.0.

Thermo-Dek is also available in various thicknesses with insulating values up to R-45.

# Custom DreamspacE<sup>®</sup> 3200 All-Season Patio Enclosures

Custom sizes and pitches are available for the DreamspacE<sup>®</sup> 3200 All-Season Patio Enclosure. Custom DreamspacE<sup>®</sup> 3200 All-Season Patio Enclosures also feature a wide variety of exciting options including Super Peak Performance<sup>™</sup> triple-glaze insulating glass, Grids in various styles, DreamGlas<sup>®</sup> decorative glass panels, beautiful Vinyl Wall Coverings and Electric-Ready Chaseways. Ask your sales representative for more information.

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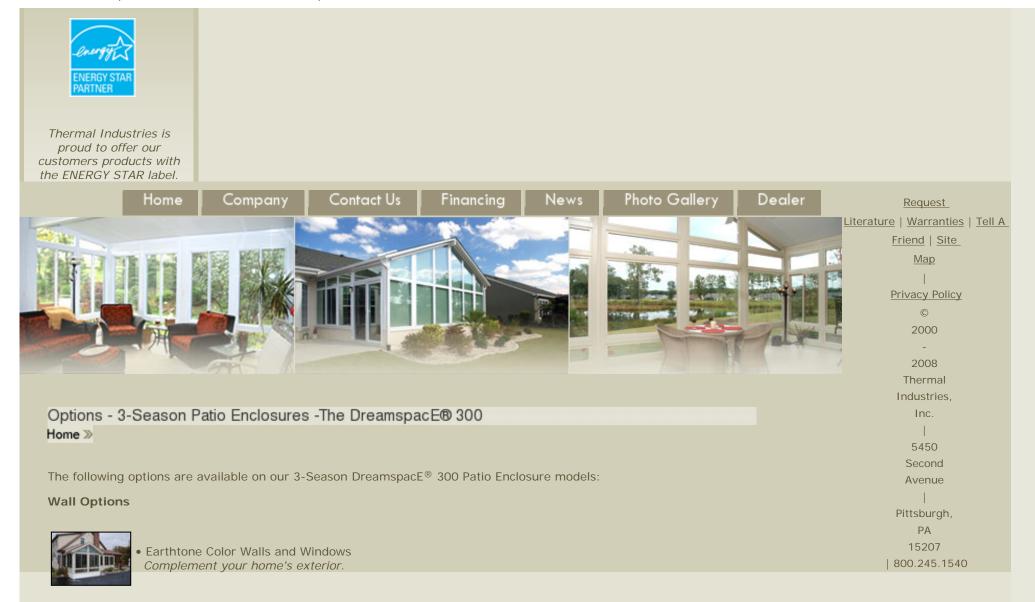
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• ASA Luran Wall Skins A durable alternative for your patio enclosure's interior and exterior walls. Will not dent or scratch, assuring a long lasting, beautiful patio enclosure.



Glass Kick Panels and Trapezoid Shaped Windows

## **Roof Options**



 Star-Gazer II Skylight standard with Easy Clean Glass Choose fixed or operable units
 Features Peak Performance<sup>™</sup> Tempered Safety Glass with Low-E and Argon Gas

- Extruded Gutter
- 6" Roof Panels with insulating value of R-38
- Enhanced Roof Panels

Enables you to add shingles to the roof of your enclosure, creating an aesthetically pleasing transition between the enclosure and house.

# **Glass Option**

### • Peak Performance<sup>™</sup> Dual-Pane LoE2 Insulating glass with Argon Gas



Dreamspace Patio Enclosures are constructed of Thermal Industries windows and patio doors, which meet or exceed ENERGY STAR criteria in all 50 states with specified Peak Performance Glass.

### **Optional Patio Door**



• Marquee Style, add a 6' Sliding Patio Door on one Side Wall



Cathedral Style, add twin Sliding Patio Doors on Front Wall

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