

Environmental Solutions for Sam's Club Members

Energy-Efficient Replacement Windows and Doors



Contribute to a better environment!



Your home is the largest investment you make...



- Protect its value
- Enjoy it
- Show your pride of ownership

***If you don't,
it could turn into the largest
drain on your income.***

Materials Direct USA's manufacturing partner...



Thermal Industries, Inc.

A Division of Atrium



Thermal Industries Manufacturing Facility

- Almost 50 years of design and manufacturing experience in the window industry.
- More than 270,000 sq. ft. of manufacturing facilities in the suburbs of Pittsburgh, Pennsylvania.
- 20 regional design and support centers in major metropolitan areas.
- Developed many industry firsts including custom replacement windows, bays, bows and casements.
- Energy Star® Awarded—Eastern Regional Window Partner of the Year.
- Developed technologically advanced window systems that meet or exceed AAMA and NFRC standards for air and water infiltration.

Associated with:



 **Thermal Industries, Inc.**
A Division of Atrium

- All Thermal Industries Windows are NFRC tested and labeled for thermal performance.
- ENERGY STAR®—All Thermal Industries windows specified with Low-E and Argon or Krypton gas are ENERGY STAR qualified in all 50 states.
- AAMA—Our windows are tested to the American Architectural Manufacturers Association standards for air and water infiltration.



Finding a dependable company isn't easy...



- The Better Business Bureau reports that home improvement companies rank #1 for “written complaints.”
- The Small Business Administration reports 96% of contractors fail within the first five years of starting their business!
- Newspapers and TV News report “fly-by-night” contractors doing shoddy workmanship.
- Many companies view their customers as a “one-time” customer.



Protect yourself with a company that does it right!



Materials Direct USA has been selected by Sam's Club® as an Authorized Regional Dealer for our long-time dedication to:

- ✓ Highest Quality Products
- ✓ Expert Installation
- ✓ Reliable Service
- ✓ Customer Satisfaction

Why Materials Direct USA?

- ✓ Factory Measured
- ✓ Factory Built
- ✓ Factory Trained Installers
- ✓ Factory Warranty

Why you can count on Sam's Club® and Materials Direct USA for your replacement window needs...



- Incorporated in 2003; owners formerly managed "America's Largest Home Improvement Company."
- Materials Direct USA offers courteous, FREE planning and FREE Estimates to members.
- We offer a high quality, energy-efficient custom vinyl window system.
- Materials Direct USA provides a manufacturer's product warranty you can trust.
- With Materials Direct USA , there are no hidden charges.
- We ensure job sites are completely cleaned during installation and provide a full inspection upon completion.
- Materials Direct USA provides complete product service and responsibility.



At Materials Direct USA,



You never get the runaround!

Materials Direct USA takes full responsibility if you have any questions. There are no middle men, third parties, or passing the buck.



The Materials Direct USA Team pledges to you...



- Years of proven reliability with a growing list of satisfied customers
- All windows are custom-sized to fit your opening
- No mess, job site completely cleaned
- Each installation is serviced to your complete satisfaction
- Warranties you can trust
- 100% financing program
- No hidden charges
- Public Liability and Workers Compensation Insurance



Is this the type of company you would feel comfortable doing business with?



Heating and Cooling Costs



Gas, oil and electric bills are climbing.



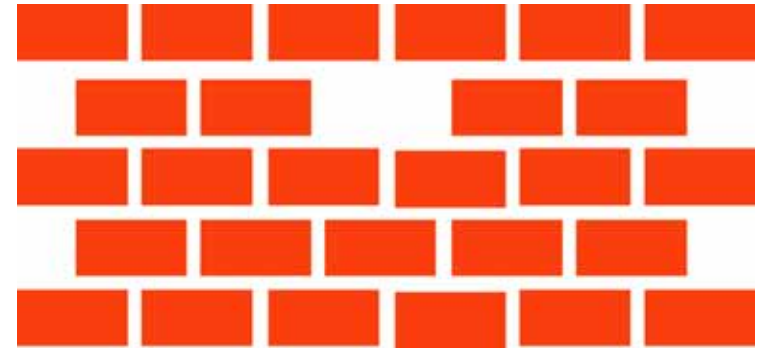
Energy Wasters



Do you know where your money goes?

- **Air Infiltration**

- Happens when cold air or heat passes through small gaps or crevices in your windows.
- 1/16 of an inch gap around the sashes and main frame of a standard size window will allow as much air to enter your home as a missing brick in your wall!



- **Conduction**

- The transmission of heat through matter.
- You lose valuable energy dollars because heat moves to the coldest area.

Summer...
Warm air wants to move into your home where the cool, air conditioned air is!

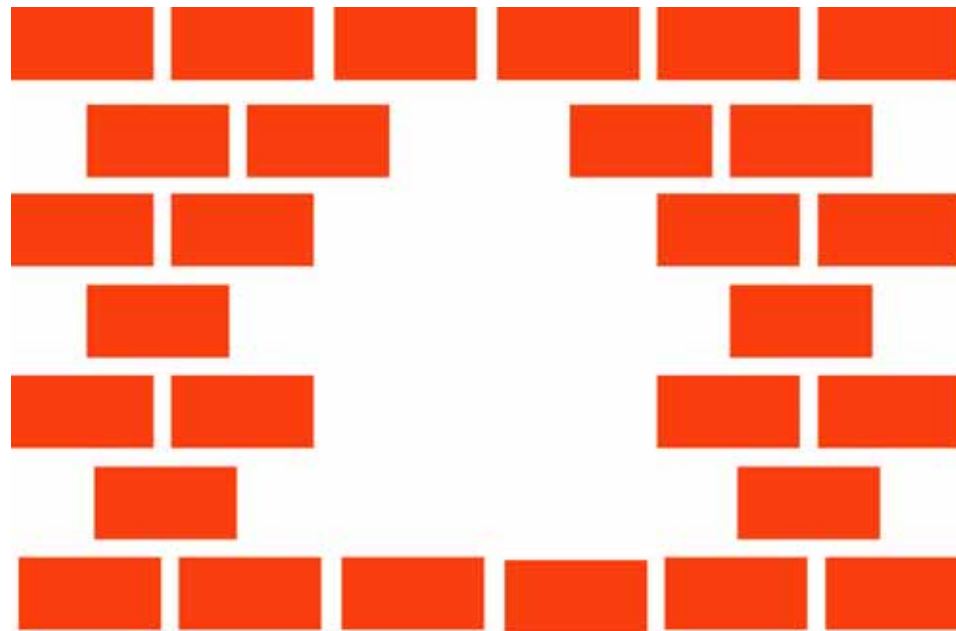


Winter...
The warm air you are heating inside your home wants to move outside to the cold, wintry air!





Combine the Effects of Air Infiltration and Conduction:



*The average size home with 12 windows now has
the equivalent of a hole in your wall the size of*

12 bricks!

What considerations are important to you...



When improving your home?

- Energy Efficiency?
- Reputable Company?
- High Quality Products?
- Quality Workmanship?
- Warranty?
- Return on Investment?

More considerations...

- What is the investment for the entire job?
- When will the project be complete?
- Is the company licensed and insured?
- Is the agreement in writing?
- Is the quality specified?
 - Grade, color, warranty?



There are many unknown costs with your old windows...



The cost and efforts of cleaning.



The cost of a lower resale value.



The cost of maintenance!



The cost of replacing furnishings damaged by the sun.

And the highest cost...doing nothing at all!



What choices do you have?



Wood



Clad Metal

Aluminum

vinyl



Wood Windows



- Advantages
 - Excellent insulator
 - Attractive appearance
- Disadvantages
 - High cost to install
 - Require regular maintenance of painting or staining
 - Will absorb moisture
 - Deteriorate over time
 - Limited or no custom sizes

Aluminum Windows

- Advantages
 - Strength
 - Custom Sizes
- Disadvantages
 - Largest conductor of heat and cold causing high energy loss
 - Materials will scratch, dent, pit and corrode
 - Deterioration of interior trim from condensation and icing
 - Tendency to jam and bind





PVC-Clad Metal or Wood Windows

- Advantages
 - Offer maintenance-free exterior
 - Attractive
- Disadvantages
 - Two materials expand/contract at different rates
 - Metal is poor insulator
 - Wood requires maintenance



Composite Windows



- Advantages
 - Good insulator
 - Custom-made
 - Practically maintenance-free
- Disadvantages
 - Low impact resistance
 - Finish dulls
 - Porous—dirt gets into material
 - Expands and contracts at different rates



Inferior Vinyl Windows



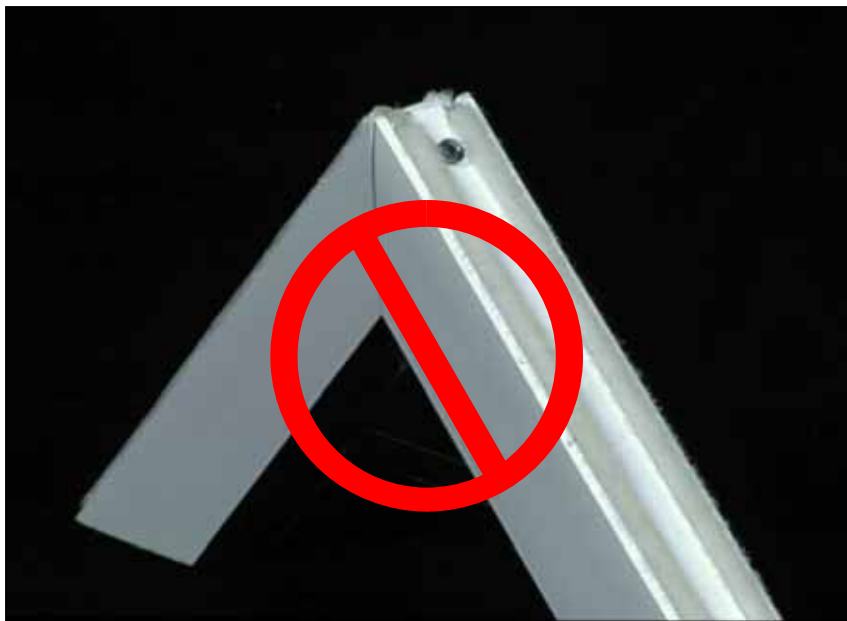
- Advantages
 - Inexpensive
- Disadvantages
 - Made from reground windows, plastic bottles and PVC pipe
 - Warp
 - No structural integrity
 - Expands with heat
 - Stress cracks
 - Sags allowing infiltration
 - Porous and hard to keep clean
 - Discolors



Mechanically Fastened Vinyl Windows

• Advantages

- Custom-made to fit your opening
- Practically maintenance-free
- Initially inexpensive



• Disadvantages

- Put together with screws
- Prone to air and water infiltration—drafts and leaks
- Do not perform well during expansion and contraction, creating weak joints
- Reduced visible glass area due to excessive vinyl
- Sash rails “smile” and locks don’t line up
- Sills collapse, jambs warp and distort
- Life expectancy—1 to 10 years

Chemically Welded Vinyl Windows

- Advantages
 - Custom-made to fit your opening
 - Practically maintenance-free
- Disadvantages
 - Joints are glued together
 - Entire joint system receives glue
 - Chemical agent used is harmful to people and the environment



Cut and Notch Vinyl Windows

- Advantages
 - Custom-made to fit your opening
 - Practically maintenance-free
- Disadvantages
 - Weak frame welds—crack easily
 - Less weld areas due to dissimilar jamb and sill profiles—resulting in weak structural integrity
 - Poor water management
 - No weep system for water drainage
 - Low sill height—severely limits water drainage
 - Fewer chambers—less insulating value
 - Screen rail hinders water drainage by creating a dam



DH505 Window System



- Solid Virgin Vinyl Construction
 - Provides structural integrity and colorfastness to ensure a lasting appearance
- Maintenance-Free
 - Maintains original shape
 - Will not peel, pit, corrode, swell or rot
 - Keeps its clean appearance
 - No more painting or priming
- Fiberglass Half Screen
 - Enjoy fresh air without annoying insects



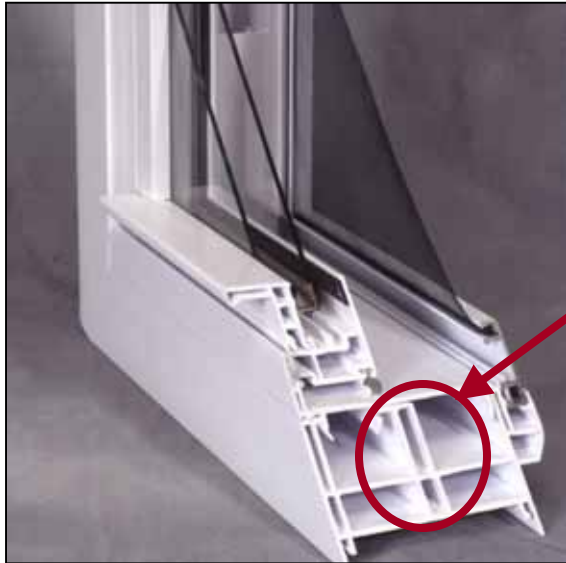
DH505 Window System



- Fully Fusion Welded Frame & Sashes
 - Strength & Energy Efficiency
 - Not mechanically joined or chemically welded corners like wood, aluminum or inferior vinyl
- Fully Welded & Weeped Sill
 - Provides excellent water resistance and structural integrity
 - 300% stronger than the average cut and notched design window
- DH505 has **100% surface contact** between jamb and sill
 - Jamb and sill are identical profiles, resulting in a complete weld at the corners



DH505 Window System

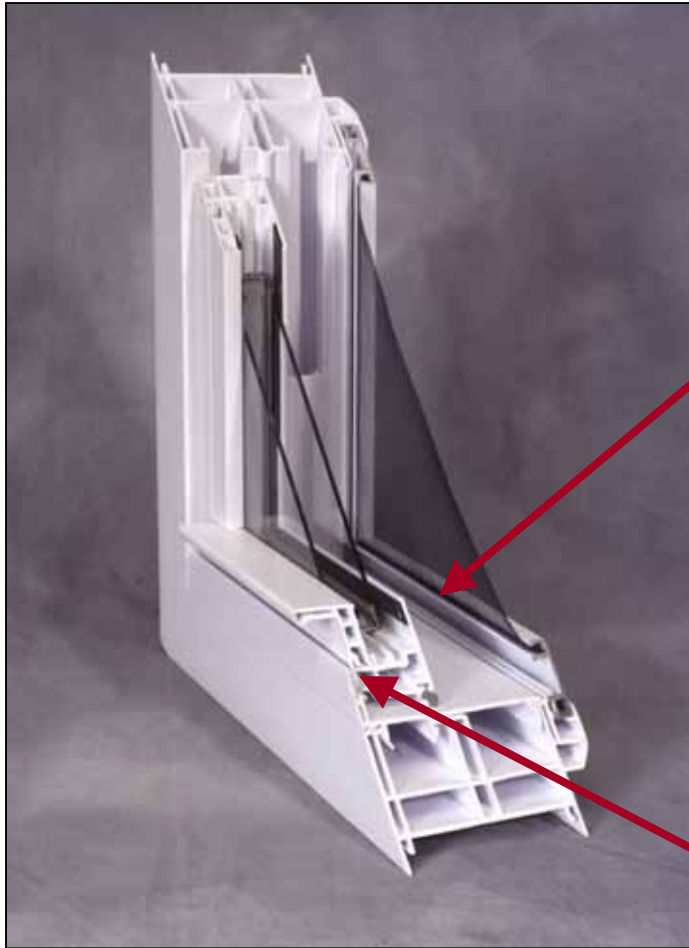


- Parallel I-Beam Construction
 - Larger hollows provide a stronger frame than that of the low-profile Cut & Notch style
 - Provides increased strength, durability and structural integrity
- Beveled Screen Track
 - Stiffens frame
 - Enables easy screen removal
 - Improves aesthetics

- Dedicated Pocket Header
 - Provides a clean interior appearance and prevents air infiltration



DH505 Window System



- Fully-Welded & Weeped Sill
 - Internal water management system is **2 1/2 times more resistant** to water penetration than Cut & Notch design
 - Plus, our deep, internal weep system channels more water than the Cut & Notch sill
- Weep-System-Enhanced Screen Track
 - Unlike the Cut & Notch design, which hinders water drainage and creates a dam effect
- Lower Hospital Leg
 - Versus the high, obtrusive leg on the Cut & Notch design

DH505 Window System



• Everyone's Step Jamb

- Unequal top & bottom sashes
- Less visible glass
- Unequal sight lines...or wider vinyl profile on bottom sash
- Boxy, bulky, outdated design
- Hard to tilt back sash
- Notched or cut-interrupted interlock causing an incomplete seal and air leakage!

• Our Beaded (Flat) Jamb

- Equal sashes, top and bottom
- More visible glass
- Equal, aesthetically pleasing sight lines
- Streamlined, technologically modern design
- Easy tilt-in of back sash
- Jamb to Jamb interlock creating a complete seal that prevents air infiltration!
- Pocketed top sash for added security

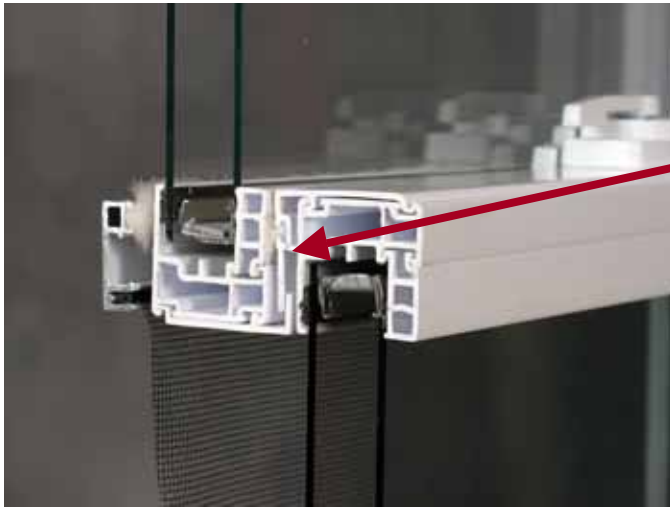


DH505 Window System



- Thermal Weight Management System with Draft Sentry
 - Draft Sentry Balance Plug prevents air from running up the balance, through the frame and into your home!
 - Identical cord material used in mountain climbing—125 lb. weight rating
 - Works on direct vertical force causing less friction than a Spiral Balance
 - Assures a lifetime of easy sash operation
 - Coil Steel Spring is made of the highest quality music wire for strength and durability
- **40% Less Operating Force** *Than the Spiral Balance System*
- Self-Contained Balance Shoe (Safety Feature)
 - *Industry Exclusive!!*
 - Designed with a bridge that holds the sash in place when tilting in for cleaning
 - Other window systems use an open shoe, which enables sashes to pop out of the frame

DH505 Window System



- Full Vinyl Interlock
 - For security and eliminating air infiltration at meeting rail



- Double Wall "Easy-Grip" Vinyl Lift Rails
 - Full width rails assure easy sash operation

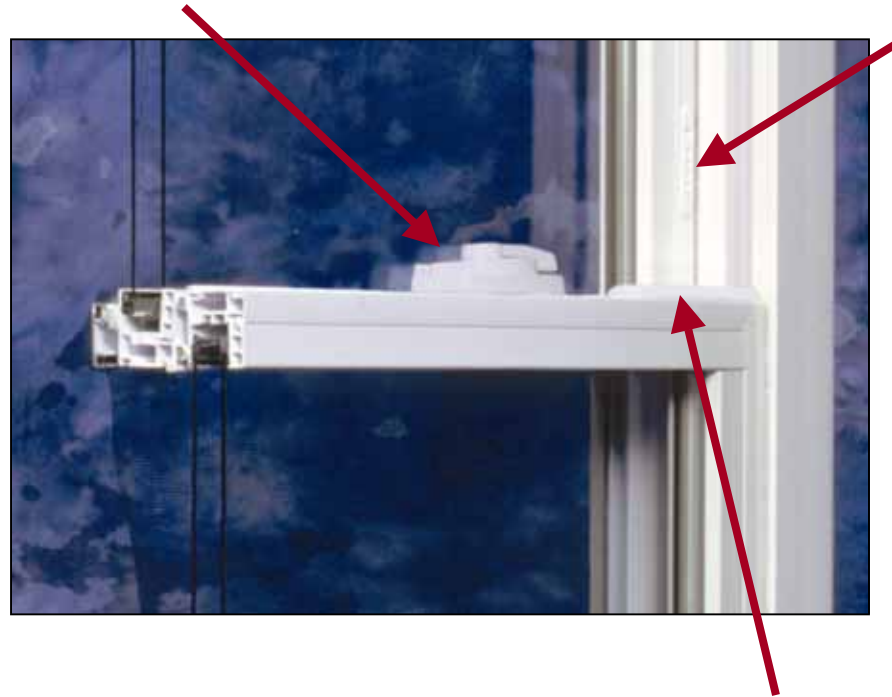
- Finseal Woolpile Weather-Stripping
 - Virtually eliminates air and water infiltration

DH505 Window System



- Stepped Round Housing Lock
 - Security and peace of mind

- Rounded Night Latches
 - For safe ventilation



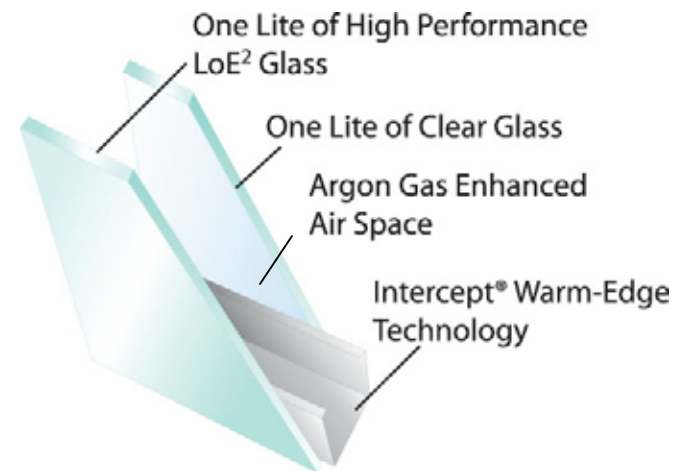
- Locking Zinc Tilt Pins
 - Squares jamb during installation
 - Holds sash securely in place during cleaning

- Rounded Tilt Latches
 - Provide easy access to tilting feature

Peak Performance™ Glass



- One Lite of Soft Coat LoE² Glass
 - During winter months, the glass helps to keep rooms warmer by reflecting heat back into the home while letting warm, solar rays enter.
 - In the summer, the LoE² glass blocks infrared and ultraviolet radiant solar energy, keeping your rooms cooler.
- Argon, a non-toxic, clear and odorless gas
 - Denser than air and prevents the formation of convection currents, and the overall transfer of heat between the inside and outside of your home.
- Intercept® Warm-Edge Spacer System
 - Unique U-channel spacer design that helps reduce heat loss near the edge of the insulating glass unit by reducing conduction.



DH505 Windows specified with Peak Performance™ Glass are ENERGY STAR® qualified in all 50 states!

Intercept® is only available with Peak Performance Dual Pane Glass.

*Based on Lawrence Berkley Laboratories Windows 5.2 simulations using NFRC environmental conditions.



WHAT IS ENERGY STAR?



ENERGY STAR is a government-backed program to help consumers identify energy efficient products.

- Why use ENERGY STAR qualified products?
 - ✓ Save energy
 - ✓ Reduce pollution
 - ✓ Save money

What are ENERGY STAR Qualified Windows and Doors?

ENERGY STAR qualified windows, doors, and skylights are independently tested and certified to meet strict energy efficiency standards.

ENERGY STAR qualified windows, doors, and skylights are tailored to four climate zones.



www.energystar.gov



Selecting ENERGY STAR Windows, Doors or Skylights



When selecting ENERGY STAR qualified windows, doors or skylights, look for the display unit label which tells you whether the product is qualified in your area of the country.

 ASK ABOUT ENERGY STAR	ENERGY STAR qualified versions of this product are available for the highlighted regions. Ask your sales person for details.
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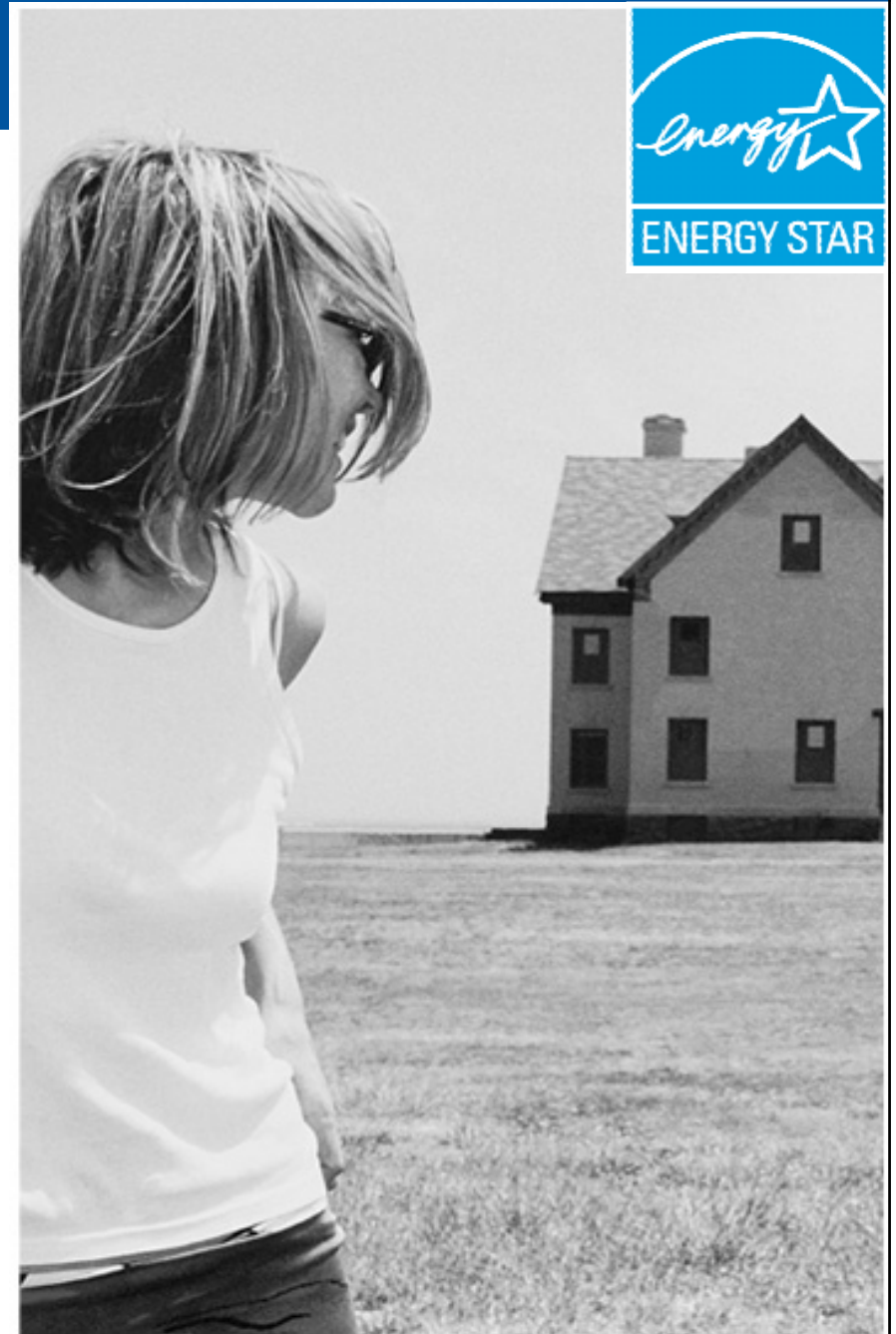


 ENERGY STAR	The standard version of this product is ENERGY STAR qualified in the highlighted regions.
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Why buy the DH505 Window?

- High quality performance
 - Increased comfort in the home
 - Warmer in the winter, cooler in the summer
 - Reduced condensation
 - Protection from sun damage and fading of furnishings
- Save money without sacrifice
 - Get the comfort of high performance windows, all while saving money on your heating and cooling bills.
 - Available in all operator types and framing materials



Energy Tax Credit for Energy Efficient Windows and Doors



- Qualification Criteria: *

- Installed in 2009 and 2010
- 30% of purchase price
- Maximum credit: \$1,500 for qualified windows and doors
- NFRC-certified energy ratings
 - **U-Factor of 0.30 or less**
 - **Solar Heat Gain Coefficient (SHGC) of 0.30 or less**

	Thermal Industries, Inc. DH505 Vinyl Frame Double Glazing Argon Enhanced LOW - E Vertical Slider TRI-K-49-00265-00001	
	ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient	
0.30	0.28	
ADDITIONAL PERFORMANCE RATINGS		
Visible Transmittance	Condensation Resistance	
0.54	56	
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining window product performance. NFRC ratings are determined for a fixed set of standard conditions and specific product data. NFRC does not guarantee any product and does not warrant the suitability of any product for any specific use. Contact manufacturer's literature for other product performance information. www.nfrc.org</small>		

*2009/2010 ENERGY TAX CREDIT

U-factor and Solar Heat Gain Coefficient (SHGC) ratings can be found on the National Fenestration Rating Council (NFRC) label that is affixed to every window and patio door unit manufactured by our company. Homeowners should retain the manufacturer's NFRC certification label with their records, but are not required to submit it with their tax return.

NOTE: Some glass options may limit Energy Tax Credit eligibility.

THIS DOCUMENT IS NOT INTENDED TO CONSTITUTE LEGAL OR TAX ADVICE. MORE COMPREHENSIVE INFORMATION WILL BE MADE AVAILABLE BY THE IRS. INDIVIDUALS SHOULD CONSULT THEIR OWN INDEPENDENT TAX ADVISERS.



Fully Fusion-Welded Vinyl Replacement Windows...



- Manufactured with the best materials
 - Elasticisors added to give the right amount of flexibility during seasonal temperature changes so it will not distort or warp
 - Colorfast...won't fade
 - Non-Porous...easy to keep clean
- Easy to Operate
 - Sashes lift with ease
 - Tilt-in sash design for easy cleaning
- Natural Insulators
 - Make your home more energy efficient
 - Keep your home warmer in the winter and cooler in the summer
- Custom-Sized to Fit
 - Quick installation—a perfect fit
- A Good Investment
 - Add to the value of your home

- Virtually Maintenance-Free
 - No scraping or painting!



Fully Fusion-Welded Vinyl Replacement Windows...



- Greatly improves the appearance and value of your home.
- Eliminate time-consuming maintenance chores.
- Provide a more comfortable home.

And over a period of time...

- Lowers Utility Bills
- Lessens Maintenance Costs
- Pay for Themselves!

The Affordable Solution...

**Materials Direct USA
Custom Vinyl Windows**



When you invest in our Window System...



The Best Solution for Your Home!



- Save Four Ways
 - Save on Heating Costs
 - Save on Cooling Costs
 - Save on Maintenance Costs
 - Save on Repair Costs

- Gain Four Ways
 - Gain a More Comfortable Home
 - Gain a Quieter Home
 - Gain a Safer Home
 - Gain a More Valuable Home



When you invest in our Window System...



Our window system can give you so much!



- **Do it for today!**
 - Make your home look newer.
 - Free yourself from costly maintenance.
- **Do it for tomorrow!**
 - Add to the resale value of your home.
 - Each year you wait, remodeling costs go up!
- **Do it for the future!**
 - Think about how great your savings will be in the years ahead.

