



EVERYTHING YOU NEED TO  
KNOW TO SELECT THE RIGHT  
REPLACEMENT WINDOWS  
FOR YOUR HOME.



# SHOPPING GUIDE TO WINDOWS

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**THEBCO**  
WINDOWS • DOORS • SIDING



## FROM THE OWNER

### SO YOU'RE THINKING ABOUT A REPLACEMENT PROJECT FOR YOUR HOME?

We've always done a good job and treated our customers right—and we've been able to build a nice business because of it. However, over the years we've noticed that some consumers will choose less-than-reputable companies to do jobs for them... usually because they are quoted less money. Don't get me wrong: we're all for good, honest competition, but it pains me to see good folks risk their hard-earned money with contractors who don't have their best interests at heart. You deserve a great value for your money—which includes an honest contractor who uses high quality products and stands behind their work in both word and deed.

### INDUSTRY STANDARDS AREN'T TOUGH ENOUGH.

We wanted to find a way to educate consumers about how to choose a good, honest home improvement contractor. The industry standards simply aren't tough enough—just about anybody with a hammer and a pickup truck can be a contractor. That's why we've pioneered a set of standards called the Code of Ethics & Competency for Remodeling Contractors. The Code calls for contractors to uphold a high set of standards that will allow you to judge beforehand whether or not a contractor is likely to do the job right. This guide specifies those standards. Before you hire any company to work in or around your home, make sure you consult this guide and INSIST that the company comply with EVERY SINGLE STANDARD in this book. If you do, chances are excellent you'll get exactly what you want out of your project.

Sincerely,

**Jerry & Jim**

Owners, Thebco



## KNOW YOUR NUMBERS



Restoration Windows  
Vinyl Extruded, UltraCore Frame,  
Triple Glazed,  
Krypton 90, Low-E  
Products Type: Vertical Slider

### ENERGY PERFORMANCE RATINGS

U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
<b>2</b> 0.18	<b>3</b> 0.22

### ADDITIONAL PERFORMANCE RATINGS

Visible Transmittance	Air Leakage (U.S./I-P)
<b>4</b> 0.42	<b>5</b> 0.1
Condensation Resistance	
<b>6</b> 70	

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. Consult manufacturer's literature for other product performance information.  
[www.nfrc.org](http://www.nfrc.org)

- 1** The National Fenestration Rating Council (NFRC) is a nonprofit organization that developed and energy rating system.
- 2** The rate of heat loss is indicated in terms of the U-factor (U-value)
- 3** The lower a window's Solar Heat Gain Coefficient, the less solar heat it transmits.
- 4** Visible Transmittance rates the amount of daylight that passes through the windows.
- 5** Heat loss and gain can occur by infiltration through cracks in the window assembly.
- 6** Condensation Resistance measures how well a window resists the formation of condensation on the inside surface.

## CERTIFIED AWDI INSTALLATION

AWDI Certified Installers, following the standards and practices provided by AWDI and accepted by EPA, Energy Star and NFRC, offer a complete installation, delivering full performance of your new windows in your home.

No other program offers **complete training**. The first training and certification program was started in 1989 by the American Window & Door Institute. More than 98% of the millions of windows installed to AWDI standards, have provided the promised performance and satisfied customers.

No other program has been cited by **Consumer Reports** for 11 straight Years. No other Standards and Practices has been universally accepted to meet EnergyStar and NFRC's requirement for installation instructions. And no other program has earned a Federal Certification Mark.

Only AWDI Certified Installers **will deliver the promise** of in-home performance offered by your new windows and doors.

### 3D INSTALL METHOD

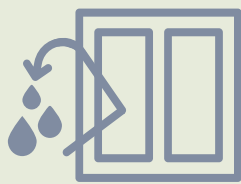
DIVERT



DRAIN



DRY



### BENEFITS FOR THE HOMEOWNER

- Eliminate Thermal Bridge and Air Infiltration Path in Installation GAP
- Outside Noise Reduction
- Increase Energy Savings
- Install GAP Performance Meets or Exceeds Window Performance

### REPLACEMENT PROCEDURE

- Existing old window and surrounding wood is removed
- The opening is prepared for the new window
- Proper flashing is installed
- A custom-sized window, or multiple windows, with exterior brick mould and sill is installed as one unit
- No rotted wood remains
- Triple weather stripping
- Fully insulated
- Reflective metallic layers reflect heat back to the source keeping your house cooler in the Summer and warmer in the Winter



## FULL FRAME REPLACEMENT

Investing in replacement windows should last a lifetime, but simply installing a new window into an existing wooden frame isn't always a comprehensive solution. It's not just the window itself that's old - the surrounding wood frame has aged along with the window and has been exposed to weathering and damage. With the Restorations Full-Frame Replacement System, an entirely new window opening and window is installed - and up to 30% more visible glass is gained versus a typical vinyl window replacement.

The Restorations Full-Frame Replacement System takes replacing old windows a step further, thoroughly restoring the structural integrity of the window opening while installing an energy efficient, low-maintenance replacement window.



VINYL VS. RESTORATIONS WINDOW

### GET A BETTER VIEW

Who wants to replace their existing windows only to find they have actually lost their view in the process?

Our narrow line window design offers up to 27% more viewing area than other replacement windows.

### LIFETIME GUARANTEE

Our windows come with a Lifetime manufacturer warranty from Restorations and as installation warranty from Thebco. This guarantees you a great product with proper installation.

## FIVE BARRIERS

There are 5 barriers necessary for proper weather management in the wall of your home – Water, Moisture, Thermal, Air and Vapor. The 5 barriers built into the wall must integrate with their counterparts in your window and door components to create a successful installation. While this is possible in new construction using drip caps, flashing, pans, insulation, and tapes, etc., it is a problem during replacement. Removing the old window is a destructive process that breaks all the connections.

Effective installation of a replacement window requires re-integration of the 5 weather barriers in the wall to the comparable barriers in the new window. If these barriers are not re-established or replaced, the new window goes bad due to leaks, mold, mildew, rot and, and you lose the thermal benefits and comfort.



VAPOR

The vapor barrier (resisting vapor diffusion) is provided by materials of low vapor permeability located near the interior of the wall and window assemblies, and include the polyethylene sheet, window frame, builders tape between jamb, sill, header and wall, and the interior sheet of glass.



AIR

The air barrier function (resisting the flow of air in either direction) is provided by the drywall, seal to the sub-sill; seal between the sub-sill and the window frame, the window frame, the seal between the window frame and the glazing, and the glazing.



THERMAL

The thermal barrier consists of the chambered frame, the insulating glazing package, and the insulated wall assembly. The interfacing of the thermal barrier can be filling voids in the cavity between window and wall with foam insulation, and any sealing of interior and exterior that effectively creates a dead-air space.



MOISTURE

The exterior moisture barrier function is provided by the glazing, the seal between the glazing and the window frame, the seal between the window frame and the sub-sill membrane, the sub-sill membrane, and the exterior sheathing paper.



WATER

The water shedding surface function consists of the glazing, the glazing tape between the glazing and window frame, the exterior surface of the window frame, the sealant between the window frame and the sill drip flashing, the sill drip flashing, and the exterior surface of the wall cladding.

## WINDOW SHOPPING COMPARISON

INSTALL METHOD: INSERT VS. FULL FRAME	THEBCO	OTHER
<ul style="list-style-type: none"> <li>• Insert – Install into your existing frame</li> <li>Advantages: Economical, quick, use existing trim</li> <li>Disadvantages: Loss of glass area, concealed installation issues, downsize opening</li> <li>• Full Frame – Install into rough opening</li> <li>Addresses all installation concerns, maximum energy efficiency, maximum glass area, new interior custom trim package</li> <li>• AWDI Certified</li> </ul>	<div>✓</div> <div>✓</div> <div>✓</div>	
BEAUTY		
<ul style="list-style-type: none"> <li>• Architectural design looks like a wood window</li> <li>• 27% more glass</li> <li>• 40 Different colors &amp; woodgrains</li> <li>• Between glass Sun Blinds</li> <li>• Designer art glass &amp; hardware finishes</li> <li>• Opti-View screen, better view &amp; insect protection</li> </ul>	<div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div>	
SECURITY		
<ul style="list-style-type: none"> <li>• Multi-point locking system, Q4 Quick dual release locks</li> <li>• Fiberglass reinforced</li> <li>• Safety glass available &amp; pet screen</li> <li>• Fall protection system</li> </ul>	<div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div>	
EFFICIENCY – INSULATED FRAME AND SASH		
<ul style="list-style-type: none"> <li>• U-Value (lower the better)</li> <li>• SHGC (lower the better)</li> <li>• Air infiltration (lower the better)</li> <li>• Condensation Resistance (CR) (higher the better)</li> <li>• Design Pressure (DP) Rating (higher the better)</li> </ul>	<div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div>	
PEACE OF MIND		
<ul style="list-style-type: none"> <li>• Lifetime non-prorated transferable sure care warranty</li> <li>• Craftsmanship warranty</li> <li>• Full service – Before, during and after</li> </ul>	<div>✓</div> <div>✓</div> <div>✓</div>	