



## ENERGY STAR VERSION 7 COMPLIANT INSTALLATION INSTRUCTIONS



### ENERGY STAR VERSION\*7 DATA PKG

- Introduction
- Version Criteria
- Product Availability
- Energy Savings and Cost vs Payback



### R-5 PERFORMANCE INSTALLATION

- Insulating The Gap
- Using Sill Pads to Level Window
- Eliminate Shims that Leak
- Proper Use of Compressed Sealant Tape



### (ES+) BEST PRACTICES

Complete Installation Document covering proper opening preparation and proper installation achieving successful, long lasting weather management solutions.



### (ES+) PROPER MEASUREMENT

- Width First, then Height
- Low and Crown
- Level and Planar
- Plumb and Square



### (ES-I) TOOLS - HARDWARE

- Hand Tools
- Power Tools
- Specialty Window Tools
- Screws, Anchors and Clips



### (ES-II) WINDOW STYLES AND PARTS

- Window Anatomy
- Window Hardware
- Window Types and Styles
- Window Operating Types



### (ES-IIIa) WINDOW REMOVAL 1

- Guidelines
- Frame-In or Frame-Out?
- Removing Wood Sash
- Removing Metal Sash



### (ES-IIIb) WINDOW REMOVAL 2

- Taking the Old Frame Out
- Removing Steel Windows
- Removing Aluminum Windows
- Concrete/Masonry Tearout



### (ES-IIIc) LEAD-SAFE INSTALL

- Proper Lead Testing and Notice
- Containment and Disposal
- EPA Rules ([www.EPA.gov/lead](http://www.EPA.gov/lead))
- Equipment and Supplies



### (ES-IV) OLD WINDOW DISPOSAL

- Recycle
- Glass Recycle
- Bagging Debris
- Municipal Waste



### (ES-V) PROPER FLASHING

- Vapor Barriers
- Sill Pans
- Drip Caps
- Method A and Method B



### (ES-VI) PROPER SHIMMING

- Tapered Shims
- Stackable Shims
- Inflatable Shims
- Integral Shims and Butterfly Shims



### (ES-VII) CAULKS AND SEALANTS

- Adhesive
- Expandable
- SPF Foams
- Proper Gunning



### (ES-VIII) APPLICATION VARIATIONS

- Wood Window- Frame In and Frame Out
- Aluminum Window - Frame In and Frame Out
- Steel Window - Frame In and Frame Out
- Install Variations



### SINGLE/DOUBLE HUNG BOX FRAME

- Blind Stop
- Pocket Install
- Remove, Prepare, Install
- Wrapping the Opening



### SLIDING WINDOWS

- Box Frame
- Frame-Out or Frame-In
- Fin/Flange/Flush
- With and Without Head Expander



### CASEMENT - AWNING WINDOWS

- Frame-In
- Frame Out
- Tilt-Turn
- Outside-in Installation



### OUTSIDE-IN INSTALL

- Install Without Head Expander
- Dealing with Exterior Stop
- Sealing Inside and Outside
- Preserving Inside Trim



### [BAY, BOW - GARDEN WINDOWS](#)

- Proper Measure
- Determine Overhang
- Sill Support
- Roof Construction



### [FRAME-IN v. FRAME-OUT](#)

- How To Choose
- Proper Sealing for Each
- Measuring for Each
- Structural Considerations



### [STEEL WINDOW REPLACE](#)

- Removing Frame from Masonry
- Leaving Old Frame In
- Jumping Frame
- Trim and Sealing Considerations



### [NEW CONSTRUCTION INSTALL](#)

- Remodeling
- Flashing (Method A and Method B)
- Sill Pans
- Vapor Barrier



### [INSTALLING CURVES - SHAPES](#)

- Circle Tops
- Picture Windows
- Trapezoids
- Exterior Sealing



### [COASTAL REPLACEMENT](#)

- Proper Removal
- Wood Surround/Mounting
- Dealing with the Gap
- Rebuild Opening



### [COMBINING - MULLING](#)

- Snap Mulls
- H-Mulls
- Structural Mulls
- Combinations



### [ALUMINUM WINDOW REPLACE](#)

- Pry Out Old Frame
- Leaving Old Frame In
- Interior Sill
- Level Sill



### [ENTRY - PATIO DOOR INSTALL](#)

- Wood Buck
- Nailing Fin
- Brick Mould
- Proper Sill Preparation



### [COASTAL NEW WINDOW INSTALL](#)

- CMU Opening
- Masonry Wall
- Impact Glazing
- Wind Loads and Codes



### [REPLACE WINDOW wDOOR](#)

- Remove Old Window
- Prepare New Header
- Frame for New Door
- Install Door



### [CURVED OPENINGS IN MASONRY](#)

- Kerfed Wood
- Flexible PVC Foam Trim
- Special Shapes
- Trim



### [JUMP FRAME INSTALL](#)

- Stucco Frontal Flange
- Safe Removal of Old Window
- Proper Drip Cap
- Proper Perimeter Sealing



### [FRAME FIN MOUNT & J-CHANNEL](#)

- Proper Flashing
- Proper Overlapping Flashing
- Foam Board Sheathing
- Integral J-Channel Install



### [INSULATE SASH POCKETS FRAME](#)

- Cure Drafts in Box Frame Install
- Insulate Sash Pockets
- Insulate Behind Jambs,
- Insulate Sill and Headers



### [MASONRY/BRICK](#)

- Masonry/Brick Veneer
- Wood Buck Surround
- Fin, Flange, Flush
- Install in Stucco



### [FASTENING](#)

- Screws
- Clips
- Simplex Nails
- Best Practices



### [BASEMENT - UTILITY WINDOWS](#)

- Hopper
- Sliding
- Specialty
- Sealing



### [WATER MANAGEMENT](#)

- Divert, Drain and Dry
- Reconnecting the 5 Climate Barriers
- Impel Rods
- Barrier and Drainage Installation



### [SEALANT TAPE INSTALL](#)

- Gap Install
- Behind Flange/Fin
- Retrofit Installation
- Sealing



### [EGRESS - SAFETY](#)

- Proper Size for Escape
- Tempered Glazing Rules
- Storm Safe
- Sill Height



### [FIN REPLACE W/ BOX FRAME](#)

- Remove Old Finned Window
- ReTrim with Wider Exterior
- Use Box Frame Replacement Window
- Pocket Install to Outside Trim



### SOUND CONTROL

- Asymmetric Glazing
- Decibels and Comfort
- Isolating the Frame
- Double Windows



### TILT/TURN INSTALLATION

- Proper Sizing for Proper Fit
- Important Use of Capture Blocks
- Wood and Block Installation
- Tilt/Slide and Fold and Slide Doors



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