



**SIDE-LOAD**  
SERIES 5700 SH



**TILT-SASH**  
SERIES 130 SH



Series 160 available  
with no J channel  
**PREMIUM**  
SERIES 150 SH



Series 460 available  
with no J channel  
**ADVANCED**  
SERIES 450 DH



Available with  
Integral Nail Fin  
**ULTIMATE**  
SERIES 8300 DH



Available with  
Integral Nail Fin  
**MAXIMUM**  
SERIES 8900 DH

## KEY STRUCTURAL AND PERFORMANCE FEATURES

| Design Pressure Rating (Structural Rating) | DP-50             | DP-50             | DP-50             | DP-35<br>(Series 455 available with DP-50) | DP-35             | DP-60               |
|--|-------------------|-------------------|-------------------|--|-------------------|---------------------|
| Window Core                                | Extruded Aluminum | Extruded Aluminum | Extruded Aluminum | Extruded Aluminum                          | Extruded Aluminum | Fiberglass Insulkor |
| Air Infiltration                           | 0.01              | 0.13              | 0.26              | 0.02                                       | 0.10              | 0.08                |
| Glass Thickness                            | 3/4               | 3/4               | 3/4               | 3/4  | 3/4               | 3/4                 |
| U-Value Low-E Argon                        | 0.31              | 0.32              | 0.32              | 0.32                                       | 0.29              | 0.29                |
| U-Value Ultra Low-E Argon                  | 0.30              | 0.29              | 0.30              | 0.29                                       | 0.29              | 0.29                |
| Standard Spacer                            | Intercept         | Intercept         | Intercept         | Intercept                                  | Intercept         | Intercept           |
| Standard Spacer with Ultra Low-E           | Duralite          | Duralite          | Duralite          | Duralite                                   | Intercept         | Intercept           |

## FRAME FEATURES/OPTIONS

|   |                             |                               |                             |                               |                               |                               |
|---|-----------------------------|-------------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|
| Welded Sash and Frame                                 | Yes                         | Yes                           | Yes                         | Yes                           | Yes                           | Yes                           |
| True WM180 Brickmold                                  | No                          | No                            | Yes                         | Yes                           | Yes                           | No                            |
| Integral Nail Fin                                     | Yes                         | Optional                      | Yes                         | Yes                           | Optional                      | Optional (applied)            |
| Integral J Channel                                    | No                          | Optional                      | Yes                         | Yes                           | No                            | No                            |
| J Channel Depth                                       | N/A                         | .625                          | .625                        | .75                           | N/A                           | N/A                           |
| 3 1/2" Flat Casing                                    | N/A                         | N/A                           | N/A                         | Optional                      | N/A                           | N/A                           |
| Sill Design   | True Slope                  | Step                          | True Slope                  | True Slope                    | True Slope                    | True Slope                    |
| Equal Sight Line Sashes                               | No                          | No                            | No                          | Yes                           | Yes                           | Yes                           |
| Sash Profile  | Square                      | Square                        | Square                      | Rounded                       | Square                        | Decorative                    |
| Weep Holes in Frame                                   | No                          | No                            | No                          | No                            | No                            | No                            |
| Balance Type  | Block & Tackle              | Block & Tackle                | Block & Tackle              | Block & Tackle                | Coil                          | Coil                          |
| Balance Covers  | N/A                         | N/A                           | N/A                         | N/A                           | Yes                           | Yes                           |
| 2 Sash Locks over 27 1/4"                             | Yes                         | Yes                           | Yes                         | Yes                           | Yes                           | Yes                           |
| Window Opening Control Device                         | Optional<br>(field applied) | Optional<br>(factory applied) | Optional<br>(field applied) | Optional<br>(factory applied) | Optional<br>(factory applied) | Optional<br>(factory applied) |
| Applied 4 9/16 or 6 9/16<br>FJ Primed Extension Jamb  | Optional                    | No                            | Optional                    | Optional                      | N/A                           | Optional                      |
| Applied 4 9/16 or 6 9/16<br>Clear Pine Extension Jamb | Optional                    | No                            | Optional                    | Optional                      | N/A                           | Optional                      |

## SCREENS

|                      |           |           |           |                          |          |          |
|----------------------|-----------|-----------|-----------|--------------------------|----------|----------|
| Half Screen Material | Roll Form | Roll Form | Roll Form | Roll Form                | Extruded | Extruded |
| Full Screen Material | N/A       | N/A       | N/A       | Extruded (optional)      | Extruded | Extruded |
| Standard Screen Size | Half      | Half      | Half      | Half (Extruded optional) | Half     | Full     |

## COLOR OPTIONS

|                          |     |          |          |     |     |     |
|--------------------------|-----|----------|----------|-----|-----|-----|
| Solid White              | Yes | Yes      | Yes      | Yes | Yes | Yes |
| Solid Almond             | Yes | Yes      | Yes      | Yes | Yes | Yes |
| Solid Clay               | N/A | Yes      | Yes      | Yes | N/A | N/A |
| Painted Colors           | N/A | 9        | 9        | 9   | 9   | 9   |
| Wood Laminates           | N/A | N/A      | N/A      | N/A | N/A | 3   |
| Exterior Bronze Laminate | N/A | Optional | N/A      | N/A | N/A | N/A |
| Exterior Black Laminate  | N/A | N/A      | Optional | N/A | N/A | N/A |

## WARRANTY\*

|                         |          |          |          |          |          |          |
|-------------------------|----------|----------|----------|----------|----------|----------|
| Glass Warranty          | 15 Year  | 15 Year  | 15 Year  | 15 Year  | 25 Year  | Lifetime |
| General Warranty        | Lifetime | Lifetime | Lifetime | Lifetime | Lifetime | Lifetime |
| Glass Breakage Warranty | N/A      | N/A      | N/A      | N/A      | N/A      | Lifetime |

## Glossary of Terms

|                                  |  |
|----------------------------------|--|
| Air Chambers                     | Small honeycomb spaces within the sash and frame extrusions that help to insulate and strengthen the window. <b>Our 8900 series window has 11 frame chambers.</b>  |
| Air Infiltration                 | The amount of air leaking in and out of a building through cracks in walls, windows and doors. Windows are tested by independent labs at a 25 MPH force. The leaking air is measure in cubic feet per minute. The industry standard is less than .30 or 30% of a cubic foot of air. <b>Atrium windows can be as low as .08 for our 8900 series windows.</b>  |
| Argon                            | A gas that is heavier than air and can be used to fill the airspace of an insulated glass unit. Argon is a safe, colorless, odorless, tasteless, non-toxic gas, which is six times denser than air. Argon increases the insulating value of an insulated glass unit as well as improves sound insulation.  |
| Balance (Coil or Constant Force) | The system in the side jambs of a single or double-hung window that helps open and support the weight of the sash. Coil Balances offer a quiet smooth operating sash.  |
| Beveled Exterior                 | An extension of the vinyl frame that adds an aesthetically pleasing dimension to the exterior of the window.   |
| Design Pressure                  | The pressure a product is designed to withstand. This value is a measure of a product's capacity to withstand the forces of wind loading, in both positive and negative directions, while it is closed and locked. The higher the DP rating the more structurally sound the window will be. <b>Atrium boasts the industry's highest rating on any Vinyl Double Hung: DP-60.</b>                          |
| ENERGY STAR®                     | A government-backed program helping businesses and individuals protect the environment through the use of high-efficiency products. ENERGY STAR® qualifying products, such as windows and doors, mean these items use less energy, save money and help protect the environment in the specified region.  |
| Fusion Welded                    | Refers to frames and sash attached together with intense heat. <b>All Atrium products are constructed this way.</b>  |
| Glazing Bead                     | A removable, decorative trim around the glass.   |
| Insulated Glass (IG)             | A combination of two or more panes of glass hermetically sealed with optimal air space for energy efficiency. This space may or may not be filled with an inert gas, such as argon.  |
| Low-E (Emissivity) Glass         | Glass treated with a thin transparent coating of metal oxide and silver. Allows natural light and short-wave heat energy to freely penetrate glass during the winter while reflecting long-wave heat energy back outside during the summer months. Keeps your home cool in the summer and warm in the winter. It reduces the penetration of ultraviolet rays to minimize fading of carpet and draperies. |
| Meeting Rail                     | The point at which the horizontal sections of the top and bottom sash meet. On sliders, the meeting rail is vertical. <b>All Atrium products have an interlocking lock and meeting rail.</b>   |
| R-Value                          | Resistance to thermal transfer or heat flow. Higher R-Value numbers indicate greater insulating value. It is the inverse of the U-Value ( $R=1/U$ ).   |
| Sill                             | The main horizontal member forming the bottom of the frame of a window or door. <b>All Atrium double hung windows have a true sloped sill to ensure perfect water run of with no need to drain the water through the sill.</b>   |
| U-Value (U-Factor)               | The rate of heat transfer through a window or door. <b>The lower the U-value, the better the insulating properties of the unit or glazing system.</b>  |
| Weather Stripping                | Variously shaped metal, vinyl, plastic or fiber strips that fit tightly against the window or doorframe to resist air infiltration through cracks.   |
| Wind Load                        | Force extended on a surface by moving air. <b>Atrium products are the industries strongest rated in correlation with our High DP ratings. The higher the wind capacity the stronger the window will be.</b>  |
| Warm Edge Glass                  | The spacing system between the panes of glass with properties that conduct less than standard aluminum spacers that touch the glass without a thermal break.   |