

18 Ladd Street Portsmouth, NH 03801



Figure 1 18 Ladd Street from South West



Figure 2 18 Ladd Street from North



*Figure 3 18 Ladd Street- South and East elevations*



*Figure 4 18 Ladd Street from Atheneum Courtyard*

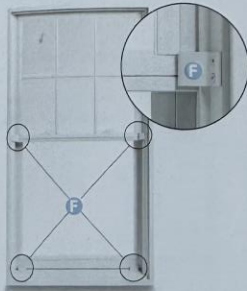
**INSTALLATION SYSTEM**

The installation system includes 1 1/2" (38) by 3" (76) stainless steel installation clips for additional reinforcement. The installation clips are screwed to the frame and fastened to the rough opening for secure installation. Optional 6" (152) installation clips are available for use with factory-applied or preapplied extension jambs.



**STRUCTURAL ENHANCEMENTS**

**Exterior Brackets**



Color matched exterior brackets provide structural support for the sash during high winds.

**Interior Brackets**



Engaged

Retracted

Retractable interior brackets provide additional structural support for the sash and frame. The brackets retract to allow the sash to tilt for cleaning. Available in white, stone, canvas and black. Brackets must be engaged to meet structural requirements.

**SASH OPTIONS**



Cottage Style (select sizes)

**ACCESSORIES** Sold Separately

**FRAME**

**Extension Jambs**



Standard jamb depth is 4 1/2" (114). Extension jambs are available in unfinished pine or prefinished white. Some sizes may be veneered.

Factory-applied and non-applied interior extension jambs are available in 1/8" (1.5) increments between 5 1/4" (129) and 7 1/8" (181). Extension jambs can be factory applied to either three sides (stool and apron application) or four sides (picture frame casing).

**Pine Stool**



A clear pine stool is available and ready for finishing. The tilt-wash stool is available in 4 3/8" (116) for use in wall depths up to 5 1/4" (133) and 6 3/8" (167) for use in wall depths up to 7 1/8" (181). Works with 2 1/4" (57) and 2 1/2" (64) wide casings.

**GLASS**

**Andersen® Art Glass**

Panels are available for 400 Series tilt-wash transom and picture units. Andersen art glass panels come in a variety of original patterns. Visit [andersenwindows.com/artglass](http://andersenwindows.com/artglass) or see page 12 for more information.

**HARDWARE**

**Window Opening Control Device**



A window opening control device is available factory applied, which limits the sash travel to less than 4" (102) when the window is first opened. Available in stone, white and black. A field-applied window opening control device kit is also available.

\*TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.  
\*\*Infringes on the overall net clear opening. Unit clear operable area may not meet egress requirements. See your local building code official for more information.  
†For up-to-date performance information of individual products, visit [andersenwindows.com](http://andersenwindows.com). Dimensions in parentheses are in millimeters.

**SECURITY SENSORS**

**VeriLock® Sensors**

VeriLock sensors are available in white, gold dust, gray, stone and black colors. See page 9 for details.

**Open/Closed Sensors**

Wireless open/closed sensors are available in white, canvas, Sandtone and dark bronze colors. See page 9 for details.

**INSECT SCREENS**

**Insect Screen Frames**



Full insect screens are available for most unit sizes. Frame color matches product exterior.

**TruScene® Insect Screen**

Andersen TruScene insect screens let in over 25% more fresh air\* and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

**Conventional Insect Screen**

Conventional insect screens have charcoal powder-coated aluminum screen mesh.

**GRILLES**

Grilles are available in a variety of configurations and widths. For tilt-wash window grille patterns, see page 40.

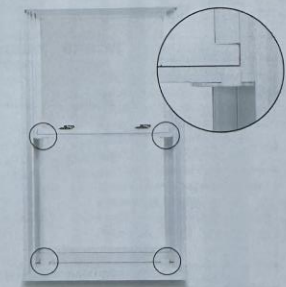
**EXTERIOR TRIM**

This product is available with Andersen exterior trim. See page 61 for details.

**PERFORMANCE GRADE (PG) UPGRADES**

A high inside sill stop\*\* with exterior sill brackets and hidden interior brackets are available to provide additional structural support for tilt-wash units, allowing standard, non-impact glass units to achieve higher performance grade ratings! Performance Grade (PG) Ratings are more comprehensive than Design Pressure (DP) Ratings for measuring product performance. For up-to-date performance information of individual products, please visit [andersenwindows.com](http://andersenwindows.com). Use of this option will subtract 3/8" (16) from clear opening height. PG upgrade not available for 72" (1829) and 76" (1930) heights. Contact your Andersen supplier for availability.

**Exterior Brackets**



Exterior meeting rail and sill brackets (on non-impact units with PG upgrades) provide additional structural support for the sash and frame. Brackets are located on both sides of the meeting rail and sill. Brackets are the same color as the exterior of the unit.

**Woodwright® Double-Hung Windows**

PG upgrades are also available for our 400 Series Woodwright double-hung windows in select sizes. See your Andersen supplier for details.

**CAUTION:**

- Painting and staining may cause damage to rigid vinyl.
- Do not paint 400 Series windows with white, canvas, Sandtone, forest green, dark bronze or black exterior colors.
- Andersen does not warrant the adhesion or performance of homeowner-applied paint over vinyl or other factory-coated surfaces.
- 400 Series windows in Terratone color may be painted any color lighter than Terratone color using quality oil-based or latex paint.
- For vinyl painting instructions and preparation, contact your Andersen supplier.
- Do not paint weatherstrip.
- Creosote-based stains should not come in contact with Andersen products.
- Abrasive cleaners or solutions containing corrosive solvents should not be used on Andersen products.

400 Series  
Tilt-Wash Double-Hung  
Windows

# TILT-WASH DOUBLE-HUNG WINDOWS

## FEATURES

### FRAME

**A** Exterior outer frame members are covered with a Perma-Shield® rigid vinyl cladding, minimizing maintenance and providing an attractive appearance.

**B** For exceptional long-lasting performance, sill members are constructed with a wood core and a Fibrex® material exterior. Sill ends are protected and sealed with weather-resistant covers.

**C** Natural wood stops are available in pine and prefinished white, dark bronze and black.\*\* For white prefinished interior units, white vinyl stops are also an option.

**D** For additional protection from air and water infiltration, the sill stop is 1 1/8" (41) high! Sill stop height for standard, non-coastal, windows is 1 1/16" (33). Interior wood stops are secured to the frame using 1 1/2" (38) 16-gauge crown staples instead of nails.

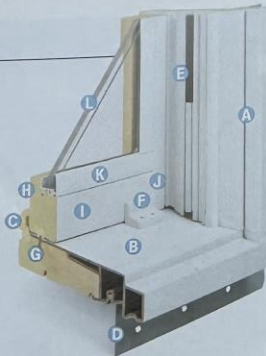
**E** A factory-applied rigid vinyl installation flange on the head, sill and sides of the outer frame helps secure the unit to the structure.

**F** An extruded rigid vinyl jamb liner and fin provide a protective seal against the outer frame members. Exclusive slide wash assists make it easy to tilt sash into wash mode.

Unique black-and-tackle balancers feature sized-to-the-unit, rust-resistant springs that require no adjustment. Glass-reinforced nylon balancer shoes provide smooth, reliable sash operation. Sash can be removed, without tools, for drywall pass-through. Jamb liners are available in white or gray and must be specified when ordering. Contact your Andersen supplier for details.

**G** Exterior frame and sill brackets provide structural support for the sash during high winds. Brackets are the same color as the exterior of unit.

**H** Weatherstrip throughout the unit provides a long-lasting, energy-efficient, weather-resistant seal. For the top and bottom rails, an encased foam material is used. The head jamb liner and sill have a one-piece EDPM weatherstrip throughout the unit that provides a seamless, long-lasting, energy-efficient weather-resistant seal. At the meeting rail, compressible vinyl bulb material is used. Side jamb liners use leaf-type weatherstrip with foam inserts.



### SASH

Wash assists make it easy to tilt the sash into wash mode.

**I** Wood sash members are treated with a water-repellent preservative for long-lasting protection and performance. Interior surfaces are unfinished pine. Low-maintenance prefinished white interiors are also available.

**J** A polyester-stabilized coat with a Flexacron® finish is electrostatically applied to penetrate all exterior surfaces for maximum protection and a lustrous finish.

**K** Sash joints simulate the look of traditional mortise-and-tenon construction inside and out.

### GLASS

**L** A rigid vinyl glazing bead with flexible lip, combined with structural silicone glazing, provides superior weathertightness and durability.

**M** Consult local building codes for glass most suitable to your area. High-Performance options include:

- Low-E4® Impact-Resistant glass
- Low-E4 HeatLock® Impact-Resistant glass
- Low-E4 Sun Impact-Resistant glass
- Low-E4 SmartSun™ Impact-Resistant glass
- Low-E4 SmartSun HeatLock Impact-Resistant glass

Tempered and obscure glass options are available. Contact your Andersen supplier.

Standard and tempered Low-E4, Low-E4 HeatLock, Low-E4 Sun and Low-E4 SmartSun glass options are available for windows with PG upgrades.

Monolithic laminated options include:

- Clear Monolithic SmartSun Impact-Resistant glass
- Gray Monolithic SmartSun Impact-Resistant glass

Obscure glass options are available. Contact your Andersen supplier.

A removable translucent film helps shield the glass from damage during delivery and construction and simplifies finishing at the jobsite.

**Lighthouse** Indicates differences from standard unit or optional upgrades

## EXTERIOR & INTERIOR OPTIONS

### EXTERIOR COLORS



### INTERIOR OPTIONS



## HARDWARE

- Black | Gold Dust
- Oil Rubbed Bronze | Satin Nickel
- Stone | White



Standard Lock & Keeper



A metal lock and keeper creates a strong, secure engagement. Two locks are applied for added protection.

## PG UPGRADE HARDWARE



Standard Lock & Keeper



Lock & Keeper

- Black | Gold Dust
- Stone | White

### ESTATE™

Stone is standard with natural interior units. White comes with prefinished white interiors. Other finishes optional.

- Antique Brass | Bright Brass
- Brushed Chrome | Distressed Bronze
- Distressed Nickel | Oil Rubbed Nickel
- Polished Chrome | Satin Nickel

Bold name denotes finish shown.

Optional Estate lock and keeper is sold separately and reduces the clear opening height by 1/32" (15). Check with local building code officials to determine compliance with egress requirements.

## HARDWARE FINISHES



\*\* Visit [andersenwindows.com/warranty](http://andersenwindows.com/warranty) for details. Dark bronze and black interiors are only available with dark bronze and black exteriors respectively.

† Infringes on the overall net clear opening. Unit clear operable area may not meet egress requirements. See your local building code official for more information.

†† Available for Estate hardware on PG upgrade units only. Dimensions in parentheses are in millimeters.


\* Flexacron® is a registered trademark of PPG Industries, Inc. Printing limitations prevent exact replication of colors and finishes.

See your Andersen supplier for actual color and finish samples. Naturally occurring variations in grain, color and texture of wood make each window one of a kind. All wood interiors are unfinished unless a finish is specified. Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.



## TILT-WASH DOUBLE-HUNG WINDOWS

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**CUSTOM SIZING**  
in 1/8" (3) increments 

Dimensions in parentheses are in millimeters.