

# ARCHITECTURAL/FIXED WINDOWS

## FINISHING, CARE & MAINTENANCE

Architectural Windows by FrontLine® Bldg. Products Inc. are manufactured with care and craftsmanship to ensure beauty and durability. Constructed of select pine and hardwoods, they are then treated with a water repellent preservative. If you choose wood exterior surfaces, occasional painting will be required. FrontLine® Bldg. Products Inc. clad wood units feature exterior surfaces made of extruded aluminum with a thick coating of high performance paint.

### Finishing Windows

1. Temperature and humidity have a major effect on drying and may affect paint film characteristics. Paint should be applied at product, surface, and air temperatures between 50° F (10° C) and 90° F (32° C) unless the product label specifies differently. Relative humidity should be below 85%.
2. Use only high grade materials and follow manufacturer's instructions carefully to assure a long lasting beautiful finish.
3. Surfaces to be painted must be thoroughly dry and free from dust or dirt, oil or grease, wax, chalk, or other contaminants. Remove dust or dirt by scrubbing or hosing. Remove oils, grease or waxes with paint thinner. If mildew is present, it must be removed prior to painting. Sand to remove any surface roughness and wipe clean.
4. Be sure that all nail holes, gouges, or other surface indentations are filled before coating to ensure the performance of the topcoat.
5. Apply two coats of high quality trim paint to the exterior of the primed units within thirty (30) days of installation. Failure to finish the primed surface within a thirty (30) day limit may require a new primer coat and will void warranty. Again, be sure to apply paint in accordance with the manufacturer's directions.
6. Each coat of paint should be applied evenly. Make certain the surfaces are dry before applying the next coat.
7. Be sure to overlap paint or urethane by 1/16" onto glass to seal glazing and seal joint. Do not break this seal when removing paint from glass surfaces or when cleaning.
8. To the interior of your window units, apply a coat of high quality primer and two or three coats of trim paint. Or, if you desire a natural finish, apply a coat of sanding sealer and two coats of urethane.
9. Cellular PVC units can be painted with high quality acrylic latex. Heat reflective paint must be used for darker colors having an L value of 56 to 0.

### Care of Clad Exterior

Occasional cleaning of the exterior aluminum surfaces will help maintain the luster of the original finish. Use a mild soap with water to clean the aluminum surfaces.



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## Glass Cleaning

Glass surfaces should be cleaned regularly with a mild, nonabrasive commercial window washing solution in order to maintain visual and aesthetic clarity. Be aware that tempered glass surfaces are more prone to scratches when cleaning due to the microscopic surface particles. Scraping with metal blades is not recommended for any glass surface since it may cause permanent damage. Read and follow the GANA Glass Information Bulletins: Proper Procedures for Cleaning Architectural Glass Products, and Heat Treated Surfaces are Different before cleaning glass. The documents can be downloaded at the GANA website: [www.glasswebsite.cin](http://www.glasswebsite.cin) or by calling GANA at 785-271-0208

## Condensation

Condensation does not usually indicate a problem with the window. Condensation occurs when humid air meets a cool surface, such as a window. If the surface temperature is below freezing, then frost will form on the glass. Energy efficient homes can have a high humidity level if not properly ventilated.

## Storage & Handling

Wood is hydroscopic and dimensionally influenced by changes in moisture content caused by changes within its surrounding environment. To assure uniform moisture exposure and dimensional control all surfaces must be finished equally. Certain species of wood, particularly oak, may contain extractives which reach unfavorably with foreign materials in the finishing system. All exposed wood surfaces must be sealed. Water based coating on unfinished system.

## General Care

1. Window components are treated at the factory with a WDMA approved water repellent preservative in accordance with industry standard WDMA I.S. 405 Water Repellent Preservative Non Pressure Treatment for Millwork.
2. Store in a clean, dry, well-ventilated building; not in a damp, moist or extremely humid environments.
3. While in storage, cover to keep clean.
4. Windows should be conditioned to the average prevailing moisture (humidity) of the locality before installing.
5. Do not drop or jar window units; any jar or shock may break the glass or the glazing seal or put the window out of square.
6. Be sure the frame is square before the unit is installed in the opening. Use a diagonal brace across corners after the frame is squared. A horizontal spacer strip at midpoint of the height of the frame will maintain equal width between jambs from head to sill. Remove the brace and the spacer strip after the frame is anchored into wall opening.
7. Install and fit windows accurately in accordance with good building practice and/or with the manufacturer's instructions.

## Installation Instructions

The following instructions are applicable for the following FrontLine Bldg. Products Inc. windows: Aluminum Clad Wood, Wood and Cellular PVC

These instructions do not address all the possible installation situations that might exist. For installations other than those references in these instructions refer to ASTM E211201, Standard Practice for Installation of Exterior Windows, Door and Skylights. The Installer is responsible for consulting with a contractor, structural engineer, architect or consumer for proper installation according to local standard practices or codes and/or ordinances, which may supersede these instructions. Information for STEM E2112 can be found on the ASTM website [www.astm.org](http://www.astm.org)

To prevent water and air from entering the home, all windows must be properly flashed and/or sealed at the exterior perimeter. Flashing and sealing materials must meet all codes and or be compatible with building exterior and window surfaces. Refer to ASTM E211201 for details. Perimeter sealant must be Grade NS Class 25 per ASTM C920. Using improper sealant could result in sealant failure causing water and air infiltration. Note: The nailing fin is not designed to be a weatherproof flashing.

**STEP 1:** Check the rough opening to be sure it is plumb, square and level. Check dimensions in both width and height.

**STEP 2:** Apply air barrier to the rough opening per ASTM E211201 section 8.1.1.3.

**STEP 3:** Apply a self sealing adhesive membrane on the sill of the rough opening. Cut the sill flashing long enough to extend an equal distance beyond the jamb flashing.

**STEP 4:** Before setting the window into the rough opening, apply a 3/8" diameter continuous bead of sealant around the perimeter of the nail fin for aluminum clad wood products or the brickmould for wood or cellular PVC products. A Sealant must be Grade NS Class 25 per ASTM C920.

**STEP 5:** Install the window, shimming and adjusting to square, plumb and level. Check the center width to avoid bowing.

**STEP 6:** Fasten through the nail fin on aluminum clad wood products and through the brickmould and sill nose on wood or cellular PVC products with galvanized nails long enough to penetrate the frame by 1", spaced no closer than 3" from each corner, and 6" to 8" apart thereafter.

**STEP 7:** Lap vertical strips of self healing adhesive membrane onto the unit or casing and out over the air barrier. Make small cuts at the head jamb to allow the membrane to fit around the corner of the window frame.

**STEP 8:** Lay strips of adhesive membrane at the head jamb or head jamb casing over the air barrier. This flashing should extend past the vertical flashing.

**STEP 9:** Fold the head flap of the air barrier down over the head jamb flashing. Apply seam seal tape over the diagonal cut in the air barrier. Make sure that the tape laps onto the window frame or casing. Tape and seal any seams and fasteners directly above the unit.

**STEP 10:** Insulate from the home's interior around the edge of the frame. Pack the insulation loosely. Some building codes require foam type insulation to form an infiltration seal. Use only low expansion type foam in combination with fiberglass insulation. Foam and foam application must conform to ASTM E211201, section 5.92. Follow all instructions and warning from the foam manufacturer.

**STEP 11:** After the siding is installed, apply a continuous bead of sealant around the perimeter of the window that meets Grade NS Class 25 per ASTM C920.

