WINDOW INSTALLATION INSTRUCTIONS

FOR WOOD, COMPOSITE, AND ALUMINUM CLAD WOOD WINDOWS

EXTERIOR VIEW

INTERIOR VIEW

IMPORTANT: Read the following documentation complete prior to attempting any installation of your FrontLine® product.

These instructions do not address all possible installation options that may exist. The installer is responsible for determining whether the following instructions meet or exceed requirements previously established by local codes and/or ordinances, which supersede these instructions. For installations other than those referenced in this document, you may refer to ASTM E2112, "Standard Practice for installation of Exterior Windows, Doors and Skylights" or consult with a local contractor, structural engineer, or architect.

Several hardware items and tools will be required for the installation your FrontLine® product. None of these are provided by Frontline® Bldg. Products Inc., so will need to be acquired in advance and be present on-site at time of installation. The most important items are appropriate eye, hearing and hand protection. Below is a check list of items required for your unit's installation:

	Item		Item		Item
	Eye Protection		Square		Shims
	Hearing Protection		Drill		Fasteners
	Gloves		Utility Knife		Flashing
	Hammer		Level		Rags/Paper Towel
	Putty Knife		Tape Measure		Fiberglass Insulation
	Pry Bar		Sealant & Caulk Gun		Low expand foam insulation

When installation includes disturbing materials placed into service prior to 1978, care must be taken in their removal. These materials may contain contaminants, such as lead, which are harmful when disturbed. The EPA has created guidelines to follow when performing any remodeling activity. The guidelines can be reviewed on the EPA website at www.epa.gov/lead. Included is information on the removal, recycling and/or disposal of contaminated materials.

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Preparing the Rough Opening (Opening Window/Door Unity Will Be Set Into):

1. Check the rough opening to ensure it is plumb, square and level. Check dimensions in width, height and diagonally. When verifying the width/height, be sure to measure at three locations; measure each end and at the center.
2. It is recommended that an air barrier be applied to the building envelope as per ASTM E2112 guidelines.
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.

Installing the Unit:

1. Before setting the window into the rough opening, apply a continuous 3/8" diameter bead of sealant to the back side of the nail fin/brickmould, around the perimeter of the unit. Sealant must be Grade NS Class 25 per ASTM C920.
2. Install the window, shimming and adjusting to square, plumb and level. Check the centers, width and height, to avoid bowing.
3. 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 or #8 stainless steel screws long enough to penetrate the building envelope framing by 1" minimum, spaced no closer than 3" from each corner and 6" to 8" apart thereafter.

Perimeter Flashing

There is a multitude of practices and procedure for properly flashing a window/door unit. It is the installers responsibility to determine the best installation practice which may be "regionally specific" in its' suitability. A general approach to flashing around the perimeter of your Frontline product can be found on a flashing manufacturer's website. One such site is at DuPont™ Flashing Tape.

Perimeter Insulation

1. Insulate from the home's interior, around the perimeter edge of the window/door frame, in the void created by the window/door and rough opening. Pack the insulation loosely.
2. 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 E2112. Follow all instructions and warnings from the foam manufacturer.
3. After the siding is installed, apply a continuous bead of sealant around the perimeter of the window. It is recommended that the sealant meets Grade NS Class 25 per ASTM C920.

Waste Disposal/Recycling:

Any building material waste that can't be reused on-site can be placed in a container and/or dumpster for collection by a waste management company or transported to a landfill or recycling facility.