



Instructions for Nail Fin Installation



Legends Clad Series

- DR300
- DR3PW
- EC300
- C4000
- CP4000
- AW4000
- Versaframe

Liberty Wood Series

- L300
- EW300
- LPW300



Trimline Instructions for Nail Fin Installation:

Products:

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Wall structure: Wood frame with exterior sheathing and Membrane drainage system (Water Resistant Barrier – WRB)

General:

Proper flashing, still panning with wall membrane, alignment, anchoring, insulation and sealing are critical to installation performance. Missed attention to detail will result in poor window performance including, but not limited to: difficult operation, air leakage, water penetration to the interior, and reduced structural performance in high winds. **Due to field variables unknown to this window manufacturer, the appropriate installation method and thoroughness is ultimately the responsibility of you, your architect and or construction professional.**

Eliminate callbacks. Install properly.



This installation method is based on **ASTM E2112 method A1 and type III sill panning** and wall integration. For optional methods refer to ASTM E2112.

Expectations:

- **Installer(s)**
 - Have fundamental carpenter skills, tool and experience.
 - Follow all instruction detail.
 - Implement safe jobsite practices such as, but not limited to wearing eye and ear protection, safe height practices.
 - Use safe work practices
- **For pre-1978 constructed residences (potentially lead paint),** proper certification is required (<http://www.2.epa.gov/lead>) and procedure is followed.
- **Compatibility of materials:** (711 is helpful for this). See ASTM E2112 table. Stay with same brand flashing and house wrap.
- Flashings and sealants applied to **clean, dry surfaces.**

Accessories provided (Typically):	Materials Needed: (Typically):	Basic tools needed: (Typically):
<ul style="list-style-type: none"> • Non- integral nail fin • Corner pads • Installation screws • Jammer Caps • Foam wrap (optional) 	<ul style="list-style-type: none"> • Fasteners (to be specified in instruction) • Sealants • Self-adhered straight flashing (or suitable panning system) • Shims 	<ul style="list-style-type: none"> • Fundamental carpenter’s hand tools • Level(s) • J-roller • Caulk gun

Installation overview:

1. Rough opening
2. Drainage membrane and Rough Opening cut
3. Sill pan
4. Window installation
5. Exterior flashing
6. Insulating and sealing to interior
7. Sealing exterior

Installation Detail:

1. **Rough opening.** Construct and/or **verify** rough opening to specified dimensions and trueness. The opening needs to be realistically precise such that:
 - **Horizontals** are level, straight and equal length
 - **Verticals** are plumb, straight and equal length
 - **Diagonals** are equal length
 - **Exterior** wall face is flat (a true plane) and plumb. (Two methods D and E below)

<p>A) Verify rough opening measures $\frac{3}{4}$" wider & 1/2." taller than window frame-accurate throughout.</p>	<p>B) Verify rough opening is square: Diagonal measurements should be equal.</p>	<p>C) Verify rough opening sill is level and straight. Verify sides are plumb and straight</p>
<p>D) Verify exterior wall face is flat (in plane) and plumb: Sheathing face to each side of rough opening should be plumb.</p>	<p>E) Alternate verification for in plane: Strings spanning diagonally should just barely touch when lapped, and reverse lapped.</p>	

2. **Drainage Membrane and Rough Opening cut.** Use a Water Resistant Barrier (WRB) that complies with regional requirements and specifications. Install, secure and lap membrane as specified by membrane manufacturer and flashing manufacturer. Refer also to AAMA 711 “Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration.”

3. **Sill Pan.** The following instruction is based on Self-adhered flexible flashing type III sill pan. These are guidelines only. Follow flashing manufacturer instruction. Optional panning methods could be used. Contact the window manufacturer for validation.

<p>A) Precut self-adhered flexible flashing 12” longer than width of rough opening. Remove release paper and center by eye, aligning interior flashing edge with interior of rough sill.</p>	<p>B) Work from center out to side jambs tucking tightly into corners and up each side jamb about 6”.</p>
<p>C) At each corner of rough opening, form flashing down over WRB. Fold over flashing on the face of WRB.</p>	<p>D) Firmly press out wrinkles on all of flashing with J-roller to ensure adhesion.</p>

4. **Window Installation. (General)**
 - I. Window should be elevated slightly above rough sill with thin shims to enable sill pan to drain incidental water.
 - II. Sequence of alignment (level, plumb, and square) can vary by your preference, however **all must be verified** because precise **alignment is critical** for proper operation and performance.

- III. Taller windows tend to “belly out” at check rail prior to shimming. Ensure that all 4 frame legs are straight.
- IV. Flexible nail fin must be supplemented with through-jamb shimming and anchorage.

<p>A) Inspect window for shipping damage and verify width and height before proceeding.</p>	<p>B) Place and glue setting shims on rough sill 3” in from each end, additional shims no further than 12” apart whereby top of shims meet a level condition.</p>
<p>C) Apply a 3/8” bead of sealant to face of WRB ½” outside of the rough opening perimeter down both side jambs and across header only. Do NOT apply sealant along sill face.</p>	<p>D) With window closed and locked, set window on preinstalled shims and center in rough openings.</p>
<p>E) Place level on top of window head jamb and adjust setting shims if necessary to level unit. Place level vertically alongside jamb to verify plumbness and that side jambs are straight. Adjust as needed with temporary interior shims at mid height. Verify for square by measuring diagonals- should measure equally.</p>	<p>F) Tack nail fin at four corners (starting at top) one-by-one as you continue to verify alignment. Measure horizontal width at middle and verify that it’s not bellied out. Shim at checkrail to align. Continue shimming interior as needed to perfect and hold alignment.</p>
<p>G) Finish nailing window in place with 1 ¾” galvanized roofing nails while verifying alignment as you progress.</p>	<p>H) Verify smooth operation of sash movement and locking mechanism. Verify even reveal at lift rail when slightly opened.</p> <p>I) Permanently shim between window jamb and rough opening at each predrilled jamb hole and secure with provided screws. Insert round caps provided in jamb liner holes.</p>

5. Exterior Flashing.

<p>A) Adhere self-stick corner pads to nail fin at each corner of window. Cover top corners with flex wrap. Apply ¼” sealant bead continuously where nail fin meets window frame on side jambs and header, and finger trowel in a concave shape.</p>	<p>B) Precut two vertical self-adhered straight flashing strips to extend 1” below bottom edge of sill flashing and 1” above head jamb fin. Apply flashing up side jambs first rolling edge 3/8” on to jamb, across nail fin and on to WRB.</p>
<p>C) Cut horizontal self-adhering flashing strip long enough to extend just beyond outer edges of vertical flashing. Apply above head jamb, again rolling 3/8” on to head jamb, across nail fin and on to sheathing (WRB should still be out of the way)</p>	<p>D) With J-roller, firmly roll out all applied flashings to ensure adhesion.</p>
<p>E) Fold down WRB head flap over head flashing. Tape bottom edge of WRB flap with segments of tape with gaps between, for drainage of incidental moisture. Tape diagonal cuts.</p>	

6. Insulating and Sealing Interior. This step is imperative to prevent air leakage and water intrusion at installation perimeter. This also acts as the “back dam” to divert incidental water to sill pan and to exterior.

<p>A) Fill rough opening-to- window frame void with low expansion insulating aerosol foam at side jambs and header only. Try not to overfill. Once fully expanded, trim off excess and install backer rod around entire perimeter including sill.</p>	<p>B) Inject appropriate sealant around entire perimeter making sure it adheres to sill pan.</p>
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7. Exterior Perimeter and Sealing.

<p>A) Exterior capping installation should not contact window frame. For most capping materials, ¼” clearance should be maintained around perimeter of window frame (or casing).</p>	<p>B) While it may not be the window installer’s responsibility to seal exterior perimeter after cladding installation, it’s imperative that it be done to prevent water intrusion behind cladding. Use backer rod and the proper sealant.</p>
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Trimline Windows, Inc.
**NON-PRORATED 10/20 YEAR
WOOD WINDOW LIMITED WARRANTY**



Trimline Windows, Inc. warrants its Clad Wood, and All Wood windows and Sash Replacement kits to be free from material defects for the period(s) as set forth below:

WHO IS COVERED

This limited warranty extends to the original purchaser of the window for the period(s) as described below from the purchase date of the window.

WHAT IS COVERED

The vinyl and aluminum extrusions and wood components used in the window are warranted to be free from defects under normal use and service and are warranted not to pit, rot, rust, flake, corrode, peel or blister for ten (10) years from date of purchase. The insulating glass is warranted against defects resulting in material obstruction of vision from film formation, dust collection or moisture collection within the sealed glass for twenty (20) years from date of purchase, non square and decorative/leaded insulated glass is warranted for five years. The hardware and other components or accessories are warranted against defects under normal use, care and cleaning for ten (10) years from date of purchase. Repairs of any defects that arise or become manifest after the expiration of the warranty period are not the responsibility of Trimline Windows, Inc.

WARRANTY CLAIM PROCEDURE

Any claims of defects under this warranty are to be made in writing to Trimline Windows, Inc., Northampton Business & Technology Center, 50 Louise Drive, Ivyland, PA 18974, Attn: Warranty Claim Dept. Claims should be made within ten days of the discovery of the suspected defect. Included with the claim must be a copy of this warranty showing installing contractor's name and date of installation and proof of original purchase date. If the windows are found to be in non conformance with the terms of this warranty, Trimline Windows, Inc. agrees, at its option, to repair or replace the defective part(s). Field service costs to repair or replace defective part(s) will not be charged by Trimline Windows, Inc. for a period of one year following the date of original purchase. After the first year Trimline Windows, Inc. will not be responsible for any field service labor or transportation costs incurred in the repair, removal, replacement, installation of the window or any window component. Service calls will be charged at the then prevailing rate for labor and mileage.

REPLACEMENT PARTS

Trimline Windows, Inc. reserves the right to discontinue or change any of its products or the parts utilized in any of its products at its sole discretion. If any window product or component originally installed in the building is not available at the time of any claim by you under this warranty, Trimline Windows, Inc. reserves the right to substitute any other model or component as a replacement.

EXCLUSIONS

Trimline Windows, Inc. does not warrant installation or claims caused by installation. This warranty covers manufacturing defects only and does not include damage or defects due to normal weathering, fading, accidents or intentional damage, hail, lightening, flood, fire, acts of God, building settlement or structural failure, chemical pollutants, mildew, improper maintenance, vandalism or any other cause beyond the control of Trimline Windows, Inc. This warranty does not cover windows where the cladding has been painted, varnished or coated with any substance by the consumer. Broken glass and screens are not covered. Condensation of moisture on the exterior surfaces of the sealed glass in the window may occur as a natural result of excessive humidity within the building area. Changes in interior and exterior temperatures may also cause condensation. It does not indicate a window defect and is not covered by this warranty.

THE MANUFACTURER WILL HAVE NO LIABILITY BEYOND REPAIR OR REPLACEMENT AND EXPRESSLY WILL HAVE NO LIABILITY FOR ANY LOSS OF TIME, INCONVENIENCE, LOSS OF USE, PERSONAL INJURY, PROPERTY DAMAGE, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGE. THIS WARRANTY IS THE ONLY ONE WHICH THE MANUFACTURER MAKES AND IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THE PROVISIONS OF THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE PURCHASER. EXCEPT THROUGH WRITTEN AGREEMENT FROM THE MANUFACTURER, NO REPRESENTATIVE HAS ANY POWER OR AUTHORITY TO MAKE ANY ALTERATIONS TO THIS WARRANTY OR ANY PROMISE OR REPRESENTATIONS OTHER THAN THOSE CONTAINED IN THIS WARRANTY. THIS WARRANTY CONTAINS THE ENTIRE AGREEMENT BETWEEN THE PARTIES.

Some states do not allow limitation on how long a warranty lasts or the exclusion of incidental or consequential damage, so the above limitation or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state. This warranty shall be governed by the laws of the Commonwealth of Pennsylvania.

Effective 1/1/2011