

SITUATION: WINDOW AND BUILDING DAMAGE

- Do your windows have water stains on them?
- Do your windows feel like they have air leaks around them?
- Do your windows look anything like any of these?



Most likely it is due to improper window installation.

- Installing building wrap around the window framing.
- Installing window wrap over the building wrap.
- Not mechanically fastening the window flanges to the substrate.
- Not insulating the voids around the window frame.

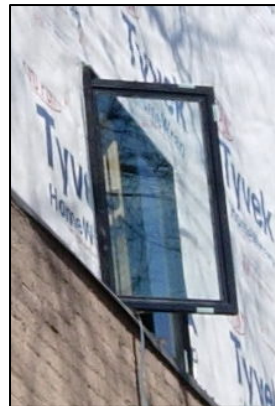
Installing the window wrap over the building wrap (Tyvek) is an improper window installation.

IMPROPER INSTALLATION



The window is installed over the building wrap.

PROPER INSTALLATION



The building wrap is installed over the window.

CAUSE

When water or condensation gets behind the building wrap above the windows, water will accumulate at the head of the window. The water will run down the jambs and stop at the sill causing mold, deterioration of the frames, warping, and air infiltration.

REMEDY (patent pending)

Windows should be fully adhered onto the substrate, plywood, OSB, or masonry using a high quality window wrap, such as Eternabond. Eternabond is a roof sealant, which is a UV stabilizer. The 35 mil strip adheres to the window flanges and substrate. Eternabond has a 10-year warranty and prevents any vapor from penetrating through the wrap.

Benefits of using a high quality window wrap:

- No UV deterioration during construction
- Adheres directly to the substrate
- Prevents condensation and/or sweating accumulation around the windows

Installation recommendations are:

1. Apply ¼" silicone sealant bead, full perimeter, to the back side of the installation flange or around the rough opening ½" from the edge.
2. Lift the unit into the rough opening. From the interior, shim at corners of sill under side jambs to level and center unit. For joined units, a shim must be placed under the mullion post(s) at the sill.
3. Measure diagonally across unit, upper left to lower right and upper right to lower left corners. If measurements are equal, unit is square. If unit is not square, adjust with shims.
4. Measure across head, center, and sill of unit. Center dimensions should match head and sill dimensions. Shim to straighten side jamb, if necessary. Insert shims at midpoint behind the side jamb between unit frame and rough opening.
5. Screw the window flanges to the substrate – preventing the window from moving and shifting due to climate changes and high wind (hurricanes, tornados).
6. Apply quality window wrap on the window flanges and directly onto the substrate.
7. Insulate voids around window with foam sealant.
8. Tape exterior building wrap onto window wrap.

This provides a window system that works.