

Aluminum Mounting Flange Windows

New Construction

Mounting flange windows are designed to integrate with the weather resistant barrier and bitumen type flashing material. All flashing material must meet ASTM – D779. Proper integration of mounting flange windows has a great impact on the overall performance of the assembly and the warranty of windows.

Preparation

- Rough opening shall be level plumb and square. The opening should be 3/4" larger than the actual window in width and height.
- Consult with the general contractor to determine the proper membrane/drainage system and select the proper ASTM installation application A, B, A-1 or B-1 as a minimum. These installation instructions are available in detail by calling 1-800-981-6773.
- Verify locations and openings requiring safety glass for proper window placement.

Installation

- 1) A membrane/drainage system requires flashing of the rough opening in accordance with the ASTM installation practice for that application. Use a bitumen type flashing with continuous identification. All windows should be installed in the closed and locked position.
- 2) Caulk behind the windows flange with nominal 3/8" diameter continuous bead of sealant towards the outer edge of the mounting flange and covering any mounting holes. Sealant must meet ASTM C834, C1085, C1311 AND ASTM C-794 requirements.
- 3) Secure the window in an upper flange location 3" from the corner using an 8d non-corrosive fastener. Check the window to insure that it is level, plumb and square. Level the window using manufacture approved flat shims where necessary. Do not shim directly under the center of an operating sill unless using continuous shims.
- 4) Attach the window in the opposing corner and again check to insure for level, plumb and square. Continue to secure the window through the nailing flange every 12".
- 5) Apply head flashing covering the mounting flange and exceeding the jambs 9-1/2" on each side. Fold down and tape the house wrap where applicable.
- 6) Check the general operation of the window and do not remove permanent or temporary labels. Temporary labels are to be removed after inspection by the proper authority.

Important

- Never plug weep holes where applicable.
- If insulation is necessary to fill open air cavities consider fiberglass R-13 to R-19. Expandable foam may distort or cause deflection within the window frame and is not recommended by the window manufacture.
- Never drill through the sill for mounting of security system components.
- BFS recommends covering the exterior and interior surfaces of the window during plastering, and masonry. Lime and alkaline are present in plaster, stucco, mortar and concrete and will cause permanent stains and corrosive damage to the finish of aluminum frame and glass.
- Excess residue should be removed by using a clean cloth, mild soap and water.

ASTM – D779 – Minimum water resistance.

ASTM – C834, C1311 – Less than 15% joint movement after cure and solvent release.

ASTM – 794 Adhesion testing.

ASTM – C1193 & C1299 standards for sealants selection and use.

See ASTM.org