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GENERAL INSTALLATION GUIDELINES

FOR:

NAIL FIN WINDOWS

Installation Guideline Disclaimer:

This document contains general installation guidelines of the Graham products and does not address each particular condition or installation. Shop drawings installation details may vary from these Guidelines as these Guidelines do not address every possible condition so any variances should be addressed by the design professional. These Guidelines do not address the structural adequacy on any installation and such should be addressed by a design professional. Anchorage to existing or proposed wall conditions are not addressed in this document also sealant compatibilities should be addressed by the sealant manufacturers. This document does not address the connection between the window system and the building weather barrier system and should be reviewed by the waterproofing consultant. It is generally recommended that insulation be installed in all voids of thermally improved systems, but the application of insulation in wet areas needs to be addressed by the design professional and the particular type of insulation may need to be specified.

INSTALLATION INSTRUCTIONS

- A. HANDLING SORTING PROTECTING ALUMINUM WINDOWS
 Windows are finished products and must be protected against damage. The following precautions are recommended to assure early acceptance of your products and workmanship:
 - 1. HANDLE CAREFULLY DO NOT DROP. Stack with adequate separation so windows will not rub together.
 - 2. Protect windows from moisture and dirt prior to installation. It is important that all windows not installed be protected from direct contact with rain, snow, or ice so as to protect the finish of the product.
 - 3. Protect from construction debris, cement, plaster, terrazzo, and other construction materials containing alkali which, when mixed with moisture, can be deposited on aluminum or glass surfaces. This must be removed immediately to prevent damage to the finish of the aluminum or to the clarity of the glass.
 - 4. CAUTION Windows are not to be used as ladders, scaffolds, or supports. Operable windows must be closed and locked at all times to prevent damage to windows. Under no circumstances are installed window openings to be used as construction entrances.

B. THE BASICS

The following practices are recommended for all window installations:

- 1. All materials are to be installed plumb, true, and level.
- 2. All work should start from established bench marks and column center lines established by the architectural drawings and the general contractor.
- 3. Become thoroughly familiar with and install windows in strict accordance with APPROVED SHOP DRAWINGS, APPLICABLE STRUCTURAL CALCULATIONS, and INSTALLATION INSTRUCTIONS.
- 4. The sequence of installation should be coordinated with the job superintendent so delays are prevented.
- 5. Make certain that all openings and the surrounding construction is in accordance with shop drawings. If any deviation is noticed in either dimension or construction (beyond acceptable construction tolerances) notify the general contractor IN WRITING, and resolve any differences BEFORE proceeding.
- 6. All metal to metal, non-operating joints should be sealed by the installer with sealant as shown on the shop drawings, the installation manual, or as required.

- 7. Isolate all aluminum to be placed directly in contact with the masonry or incompatible materials with a heavy coat of zinc chromate, bituminous paint, or equal.
- 8. It is recommended that insulation be used at all perimeter frame voids.

C. NAIL FIN WINDOW INSTALLATION

- 1. Check approved shop drawings versus rough opening for any flashing details that affect the window installation. Make sure that any flashing required prior to installation has been completed.
- 2. Shim the sill of the rough opening as per approved shop drawings. Recommend continuous shims at sill that can support a compressive load of at least 1100 p.s.i..
- 3. Apply a 3/8" continuous bead of silicone to the interior surface of the nail fin if detailed on shop drawings.
- 4. Set window into rough opening onto shims at the sill.
- 5. Shim as required at jambs and head as per approved shop drawings. The maximum gap between the window frame and rough opening shall be ¼"
- 6. Fasten window into opening with fastener type and locations as indicated on the shop drawings. The standard fastener holes will accept a #10 screw (max.) and are located 3" from ends and 18" on center.
- 7. If additional anchorage is required such as interior trim and clip; use appropriate installation manual for those guidelines.

Note: All flashing and counter-flashing must meet the applicable building code requirements. The approved shop drawings shall dictate the flashing quantities and methods. In the absence of shop drawings, the installation instructions from the flashing manufacturer should be followed. ASTM E2112 "Standard Practice for Installation of Exterior Windows, Doors and Skylights" can be used to determine the flashing method.

These directions are not all inclusive, project conditions may vary from information foreseen in the writing of this document.