



## Window Installation Instructions - Basic Frame Fin Installation

### 1. General Installation Notes

Windows are finished products and must be protected against damage. The following procedures and precautions are recommended:

#### A. Protection and Storage

1. Handle the material carefully. Units should be moved with the use of Power Grip suction Cups, do not use frames as lifting device as seals will be broken if frames are twisted or deformed.
2. Do not drop or drag from the truck to avoid racking or damage to windows or accessories.
3. Stack the windows with the directional arrows in the proper position, and allow adequate separation so the windows will not rub together.
4. Store the windows off the ground (i.e., pallets, planks, etc.) using the 2x4 wood planks with fin reveals off the truck (Packing materials fig 4).
  - a. Protect against the elements and other construction trades by using a well ventilated covering.
  - b. Remove material from packaging if it becomes wet. Then repack materials and move to a dry location.
  - c. Caution: Windows are not to be used as ladders, scaffolds, or scaffold supports.

#### B. Check Material

1. Check all the material upon arrival for quantity and damage. Any visibly damaged material must be noted on the freight bill at the time of receipt. If a claim is required, the receiving party must process a claim with the freight carrier.

#### C. Cleaning Window Units

1. Cement, plaster, terrazzo, alkaline, and acid based materials used to clean masonry are very harmful to finishes and should be removed with water and mild soap immediately; otherwise, permanent staining will occur. A spot test is recommended before any cleaning agent is used.
2. For cleaning of anodized aluminum surfaces, refer to AAMA 609.1-85 Voluntary Guide Specification for Cleaning and Maintenance of Architectural Anodized Aluminum.
3. For cleaning of painted aluminum surfaces, refer to AAMA 610.79 Voluntary Guide Specification for Cleaning and Maintenance of Painted Aluminum Extrusions and Curtain Wall Panels.

Please note: The prolonged application of masking tape, duct tape, and similar products to painted aluminum surfaces will induce permanent bonding of the tape to the paint. This will cause adhesion failure between the paint and the aluminum surface when the tape is removed.
4. If a protective coating is specified, remove it from areas that require field applied sealants prior to installation.

### 2. Construction Notes

The following practices are recommended for all window installations:

#### A. Reference Shop Drawings

1. Check the shop drawings and installation instructions to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the project. The installation instructions are general in nature and cover the most common conditions.

#### B. Check Openings

1. Make certain that construction which will receive the material is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with your work.

#### C. Benchmark Layout

1. All work should start from benchmarks and/or column centers lines as established by the architectural drawings and the general contractor.



## 1. General Installation Notes (cont.)

### **D. Plumb / Level / True**

1. All materials are to be installed plumb, level, true, and in proper alignment and relation to established line grades. Products are to be installed maintaining tolerances of 1/8" in 12'-0" of length.

### **E. Isolate Aluminum**

1. Isolate aluminum that directly contacts masonry or incompatible materials with a heavy coat of zinc chromate, plastic isolators, or bituminous paint.

### **F. Poured and Debridged Sections**

1. Do not drill, punch, penetrate, or alter the poured and debridged thermal break in any manner.

### **G. Fastening**

1. Fastening means any method of securing one part to another or to adjacent materials. Due to varying opening conditions, window configurations, design pressures, and methods of anchorage (subframe, "F" anchors, etc.), perimeter fasteners are not specified in these instructions. For anchor fastening, refer to the shop drawings or consult the project design professional.

### **H. Blocking**

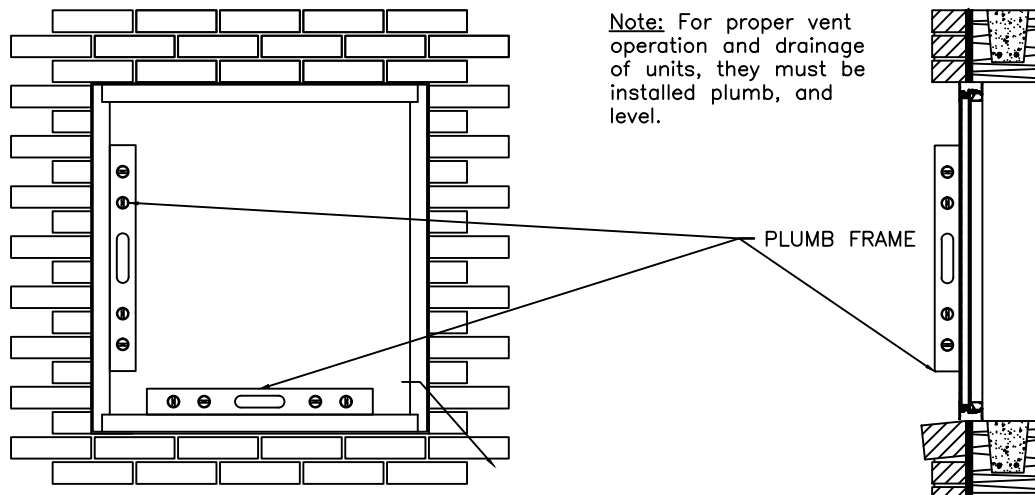
1. All blocking and shims will be high strength plastic or non-corrosive materials Not by Wintech. Blocking must be of sufficient size and shape to support the frame at all anchorage locations. The blocking must prevent the anchorage fasteners from bowing, racking, twisting, or distorting the window frames and accessories in any manner.

### **i. Sealants**

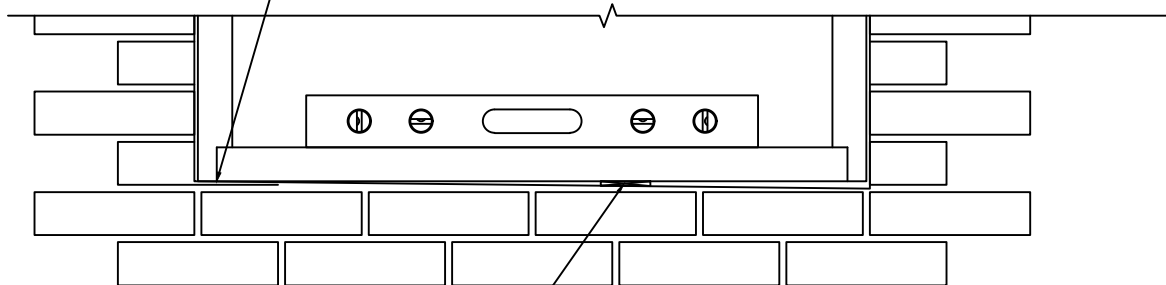
1. Sealants must be compatible with all materials they contact, including other sealant surfaces. Any sealant details shown herein, unless specifically called out to be by Wintech, are by others. It is not Wintech's position to select or recommend sealant or caulking types and will not assume liability or responsibility thereof. Consult the sealant supplier for recommendations relative to compatibility, adhesion, priming, tooling, shelf life, and joint design. It is the sole responsibility of the customer to perform all sealant adhesion and compatibility testing that is required by the sealant manufacturer of choice.

## 3. Building Codes

Glass and glazing codes governing the design and use of products vary widely. Wintech does not control the selection of product configurations, operating hardware, or glazing materials; therefore, we assume no responsibility in these areas. It is the responsibility of the owner, architect, and the installer to make these selections in strict conformity to all applicable codes.



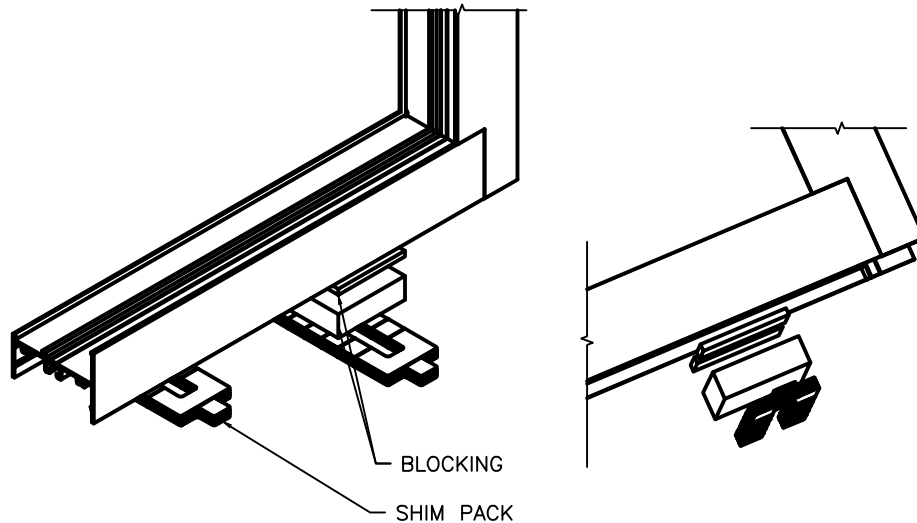
HIGH POINT OF OPENING



SHIM AT ANCHOR LOCATIONS

### 4. Window Installation

- E. Use appropriate shim/block in the frames at perimeter anchor locations. All blocking and shims will be high strength plastic or non-corrosive materials, Not by Wintech.
- F. Seal all exposed perimeter joints between structure and window perimeters with a skinning, non-hardening type of sealant. Refer to the approved shop drawings for joint design. Seal all window to window and window to accessory (subframe, panning, mullions) joints with compatible sealant. Refer to the approved shop drawings for joint design. Seal all anchor heads along the sill and 6" up the jambs.



## 5. Perimeter Anchorage

- A. From the approved shop drawings, determine the size, type, and quantity of perimeter fasteners required. Wintech will provide fasteners for Wintech material to Wintech material only. All perimeter fasteners are not by Wintech and should be purchased prior to arriving at the job site. Due to varying opening conditions, window configurations, design pressures, and methods of anchorage (subframe, "F" anchors, etc.), perimeter fasteners are not specified in these instructions. For perimeter anchor type and spacing, refer to the approved shop drawings or consult the project design professional or calculations. The design professional should analyze the anchorage system, and take into account the following information.
1. Frame dimensions and configuration of the as-installed window.
  2. Material properties of the window frame.
  3. Allowable tension, shear, and bending properties of the perimeter fastener.
  4. Design pressure.
  5. Details of the surrounding condition for the head, sill, and jambs.
  6. Relative building movements and expected thermal movement of the window system.
- B. Perimeter anchors should never penetrate a tank or tubular shape at a window sill. Any penetration of the frame must be visible for sealing purposes.
- C. Blocking must be of sufficient size and shape to support the frame at all anchorage locations. The blocking must prevent the anchorage fasteners from bowing, racking, twisting, or distorting the window frames and accessories in any manner. Excessive shim heights could increase the prying tension and/or bending forces on the perimeter fastener. Refer to the approved shop drawings and/or design professional for project specific applications.

## 6. Vent Inspection or Reinstallation

- A. Upon completion of the window installation, all operating vents must be checked for proper alignment and operation. All hardware must be cleaned and lubricated as necessary to provide smooth operation.
- B. If the vents are removed, care must be taken to ensure the vents are reinstalled into the same frames they were removed from. It may be necessary to adjust the hinges, keepers, deflection stops, and friction arms to ensure proper sealing and locking.

### WINDOW INTALLATION

WINDOW UNIT TO BE SEALED AROUND PERIMETER WITH APPROVED SEALANT AS SUPPLIED BY WINDOW INSTALLER. UNIT SHALL BE SET INTO OPENING AND SHIMMED ACCORDINGLY TO INSURE PLUMB, SQUARE, AND LEVEL. FASTENERS WILL BE SPACED ACCORDING TO SHOP DRAWING ELEVATION/STRUCTURAL CALCULATIONS. THIS WILL BE REPEATED AT EACH OPENING UNTIL ELEVATIONS ARE COMPLETED.

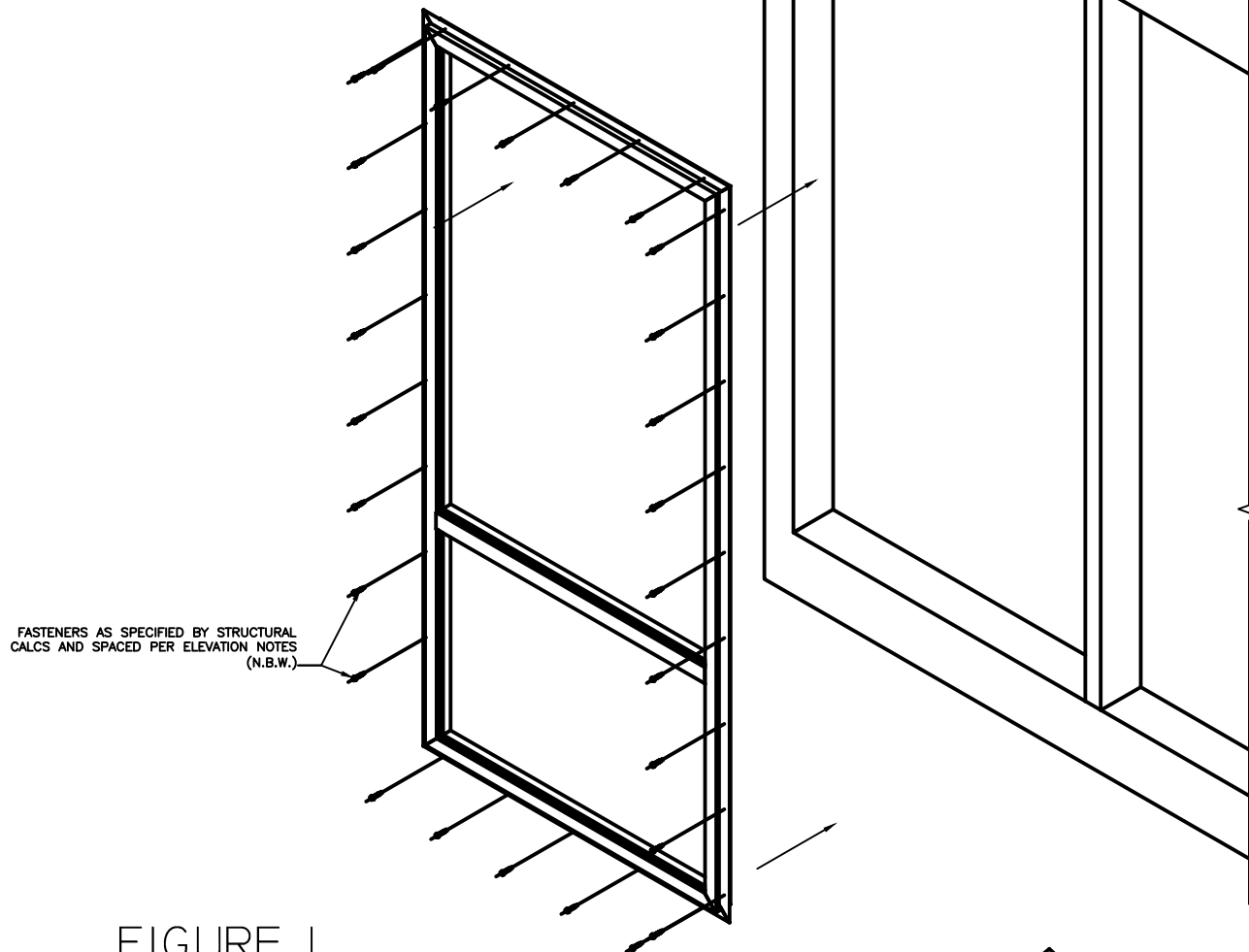
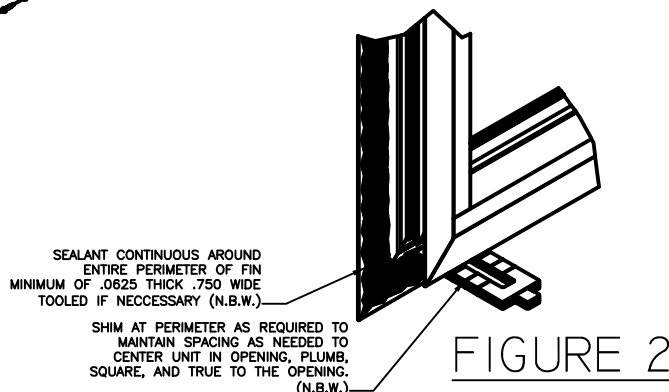


FIGURE 1



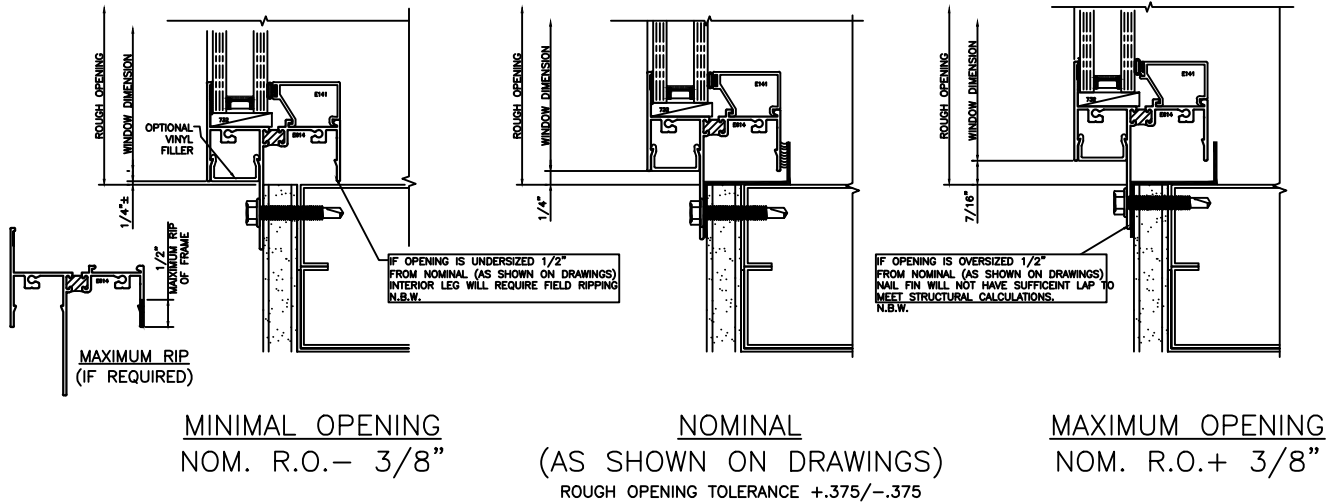


FIGURE 2

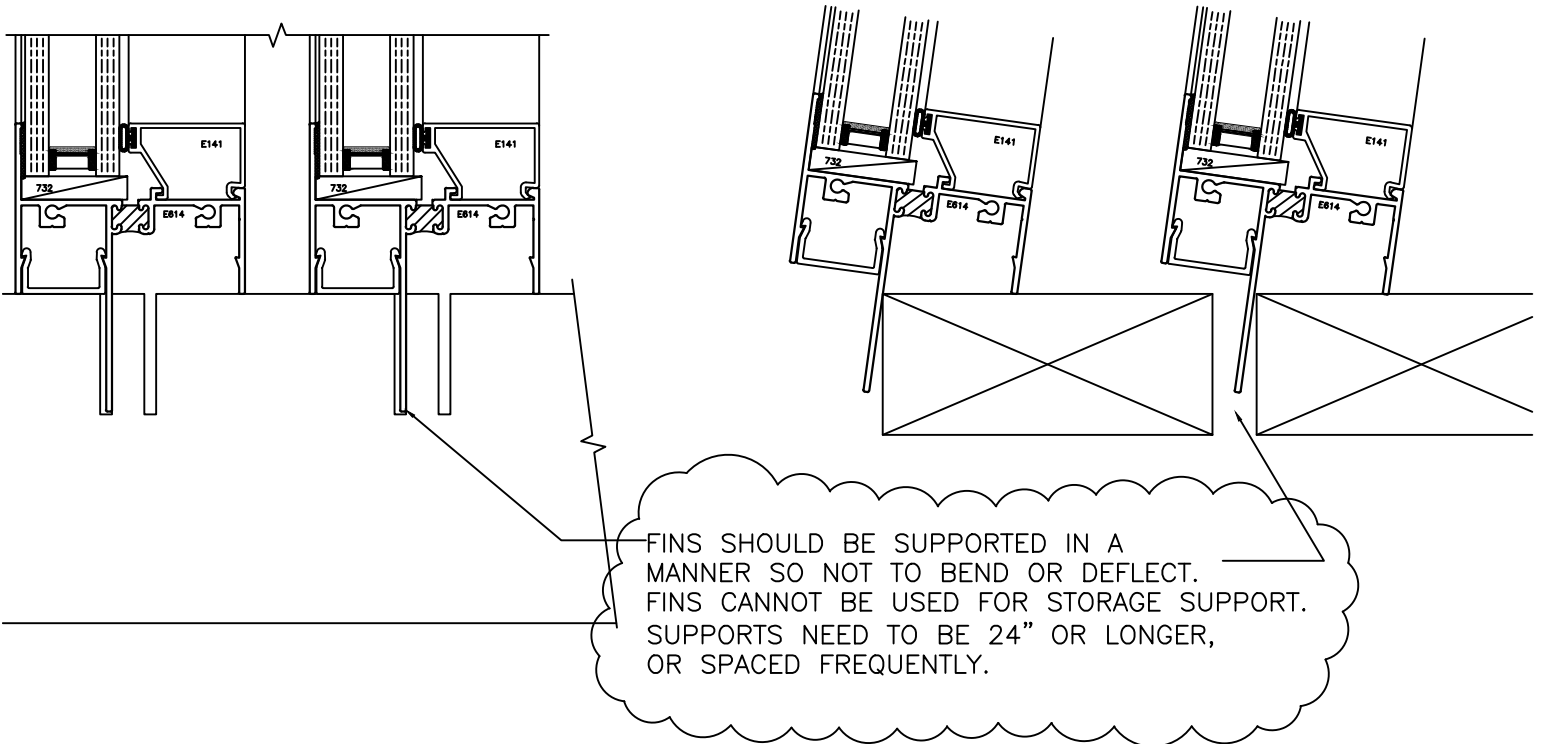


FIGURE 4  
SUGGESTIONS FOR STORAGE  
SUPPORT

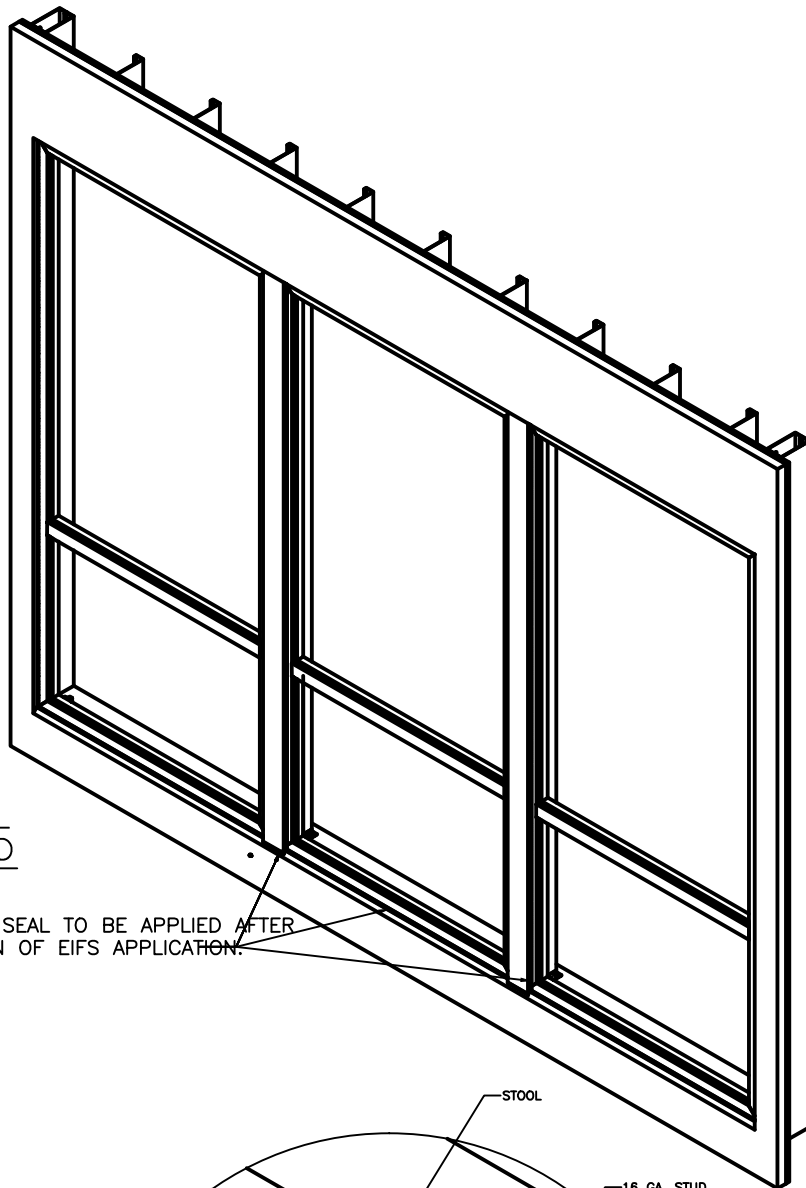


FIGURE 5

PERIMETER SEAL TO BE APPLIED AFTER COMPLETION OF EIFS APPLICATION.

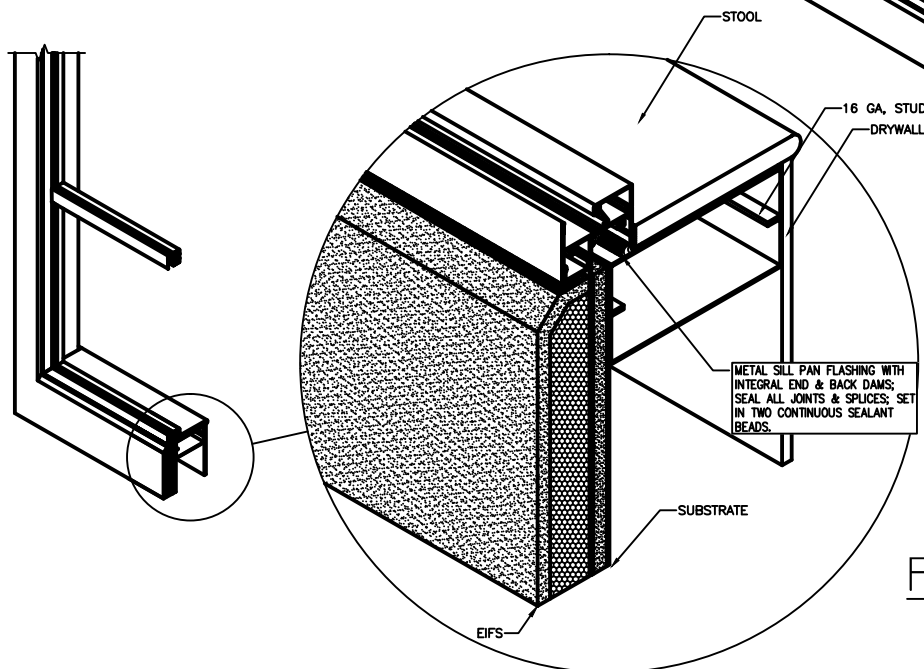


FIGURE 6