

Installation **Instructions**

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GENERAL OVERVIEW

1. General Notes

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

A. Protection and Storage

- i. Handle all material with care.
- ii. Do not drop or drag from the truck to avoid racking or damage to windows and accessories.
- iii. Stack the windows with directional arrows in the proper position, allowing adequate separation so the windows will not rub together.
- iv. Store the windows off the ground (i.e. on pallets, planks, etc.).
- v. Protect against the elements and other construction trades by using well ventilated covering.
- vi. Remove material from packaging if it becomes wet. Then repack materials and move to a dry location.

B. Check Material

Check all material upon arrival for proper quantities and any damages. 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. If the delivery is by an All Seasons Windows truck, any damage or discrepancy in the quantities of window units or boxes must be reported to the All Seasons Windows driver during the unloading process.

C. Cleaning Window Units

Final cleaning of windows is not the responsibility of All Seasons. Cement, plaster, terrazzo, alkaline, and acid based materials used for cleaning are very harmful to finishes and should be removed with water and mild soap immediately to prevent permanent staining. A spot test is recommended before any cleaning agent is used.

For cleaning of anodized aluminum surfaces, refer to AAMA 609.93 Voluntary Guide Specification for Cleaning and Maintenance of Architectural Anodized Aluminum.

For cleaning of painted aluminum surfaces, refer to AAMA 610.1- 1979 Voluntary Guide Specification for Cleaning and Maintenance of Painted Extrusions.

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.

2. Construction Notes

The following practices are recommended for all window installations:

A. Reference Shop Drawings

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

B. Check Openings

Make certain that the construction in which the material will be installed 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

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

D. Plumb/Level/True

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

E. Isolate Aluminum

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

Do not drill, punch, penetrate or alter the urethane bridge in any way.

G. Fastening

"Fastening" is any means of securing one part to another part or to adjacent materials. These instructions specify only the fasteners used within the system. Due to varying perimeters, conditions, and job performance requirements, anchor fasteners are not specified in these instructions. For anchor fastening, refer to the shop drawings or consult a fastener manufacturer for the appropriate fastener and size to be used on the job.

H. Sealants

Sealants must be compatible with all materials they contact, including other sealant surfaces. Consult the sealant supplier for recommendations relative to compatibility, adhesion, priming, tooling, and shelf life. Remove any excess sealant not by All Seasons.

I. EIFS

Per EIFS manufacturer's recommendations, all exterior horizontal projections shall have a positive slope of at least 6:12 (26.57 degrees) and all terminations and gypsum board edges shall be back wrapped and sealed. See specific EIFS manufactures literature for additional and more specific information. See EIMA's Guide to EIFS Construction for instructions. Any use of All Seasons products with a barrier EIFS system will void the Limited Warranty.

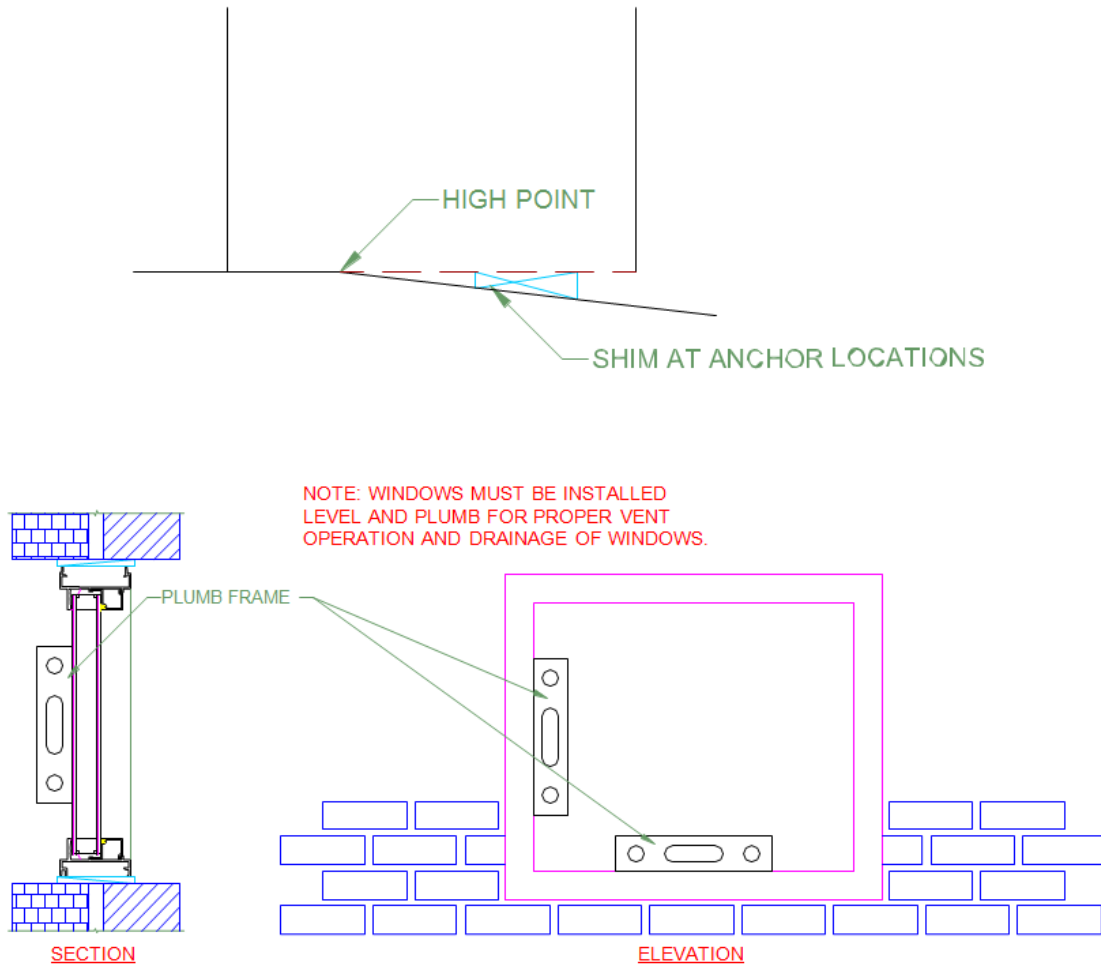
3. Building Codes

Glass and glazing codes governing the design and use of products can vary greatly. All Seasons does not control the selection of product configurations, operation 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 conformance with all applicable codes.

4. Window Installation

Read all instructions thoroughly before beginning window installation. These instructions are intended as a basic guide for installing All Seasons aluminum windows in new construction.

- A.** Prior to installation, the rough opening size should be checked against the shop drawings and architectural specifications.
- B.** Establish the face of the window line at the head, sill, and jambs in accordance with the architectural plans, general contractor's reference lines, and shop drawings.
- C.** Determine the high point of the construction sill using a string line or transit, and shim the balance of the opening to match. (see illustration below)



- D.** Do not fasten drapery tracks, ceiling supports, or convector covers to windows. The window must be free to expand and contract.
- E.** From the shop drawings, determine the size, type, and quantity of perimeter fasteners required. All Seasons will provide fasteners for attaching All Seasons material to All Seasons material only. All perimeter fasteners are not provided by All Seasons. If a sub frame is provided, please refer to the sub frame installation section within these installation instructions.

- F. Anchors used will depend on job conditions and installer's preference. Refer to the fastener manufacturer's recommendations for proper sizing and edge distance requirements for all applications.

Minimum anchor spacing:

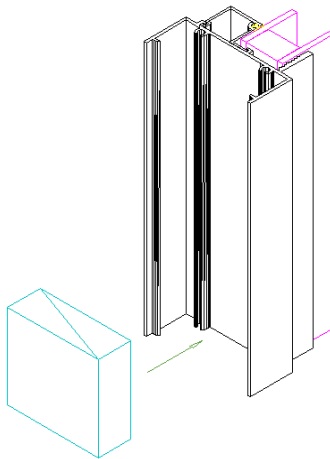
- No more than 3" from each side of frame joints.
- No more than 3" from each side of locking points
- No more than 18" O.C. between corners and locking points.
- Refer to approved shop drawings or anchor calculations for other specified anchor spacing.

- G. Throughout these instructions, the terms sealant and butyl sealant will appear and for the purpose of these instructions they are defined as follows:

Sealant – A skinning, non-hardening material.

Butyl Sealant – A non-skinning, non-hardening material.

- H. Sealants and butyls must be compatible with all surfaces on which adhesion is required, including other sealant surfaces.
- I. Seal all exposed perimeter joints between the structure and window perimeters with a skinning, non-hardening sealant. Refer to the approved shop drawings for joint design.
- J. Install blocking in the window frames at anchor locations. Treated wood or other approved blocking as required are not provided by All Seasons.



- K. Seal all anchor heads along the sill.

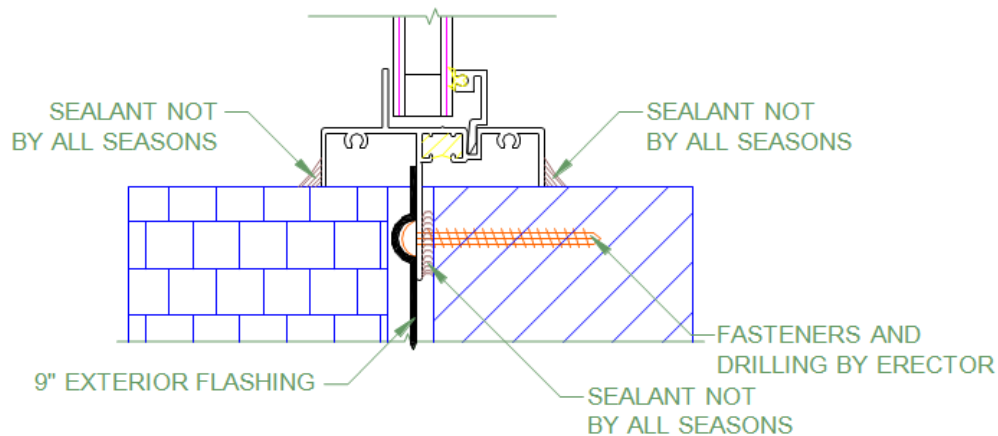
5. Vent Installation

Upon completion of the window installation, all operating vents must be checked for proper alignment and operation. If vents are removed, ensure that 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. All hardware must be cleaned and lubricated as necessary to provide smooth operation.

INSTALLATION WITHOUT SUB FRAME OR PANNING

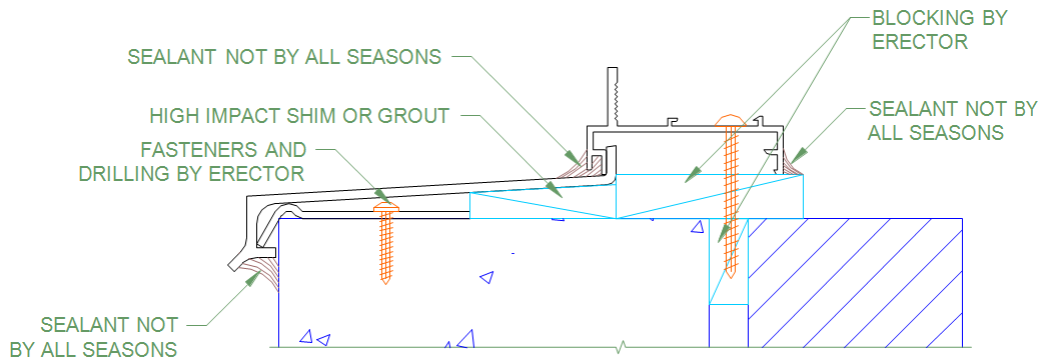
1. Installation of Nailing Fin

- A. The nail fin of the window must be sealed with the proper grade of compatible sealant and flashing to prevent water infiltration around the window. The proper grade will depend on the surface the nail fin will be sealed against.
- B. Run a continuous 3/8" bead of **compatible** sealant (See G & H on Page 6) around the inside perimeter of the window's nailing fin in line with the recess on the opposite side of the fin.
- C. Recommended sequence of flashing installation:
 - a. Sill
 - b. Jambs
 - c. Head
- D. 9" flashing around entire perimeter (head, jambs, and sill) shall meet Federal Specs UU-B-790 A, Type 1, Grade A, Style ICBO Report #1025. Flashing will not be provided by All Seasons.
- E. Install fasteners around the entire window perimeter positioned 3" from each end of the frame and a MAX of 18" O.C. unless noted otherwise or specified on approved shop drawings.



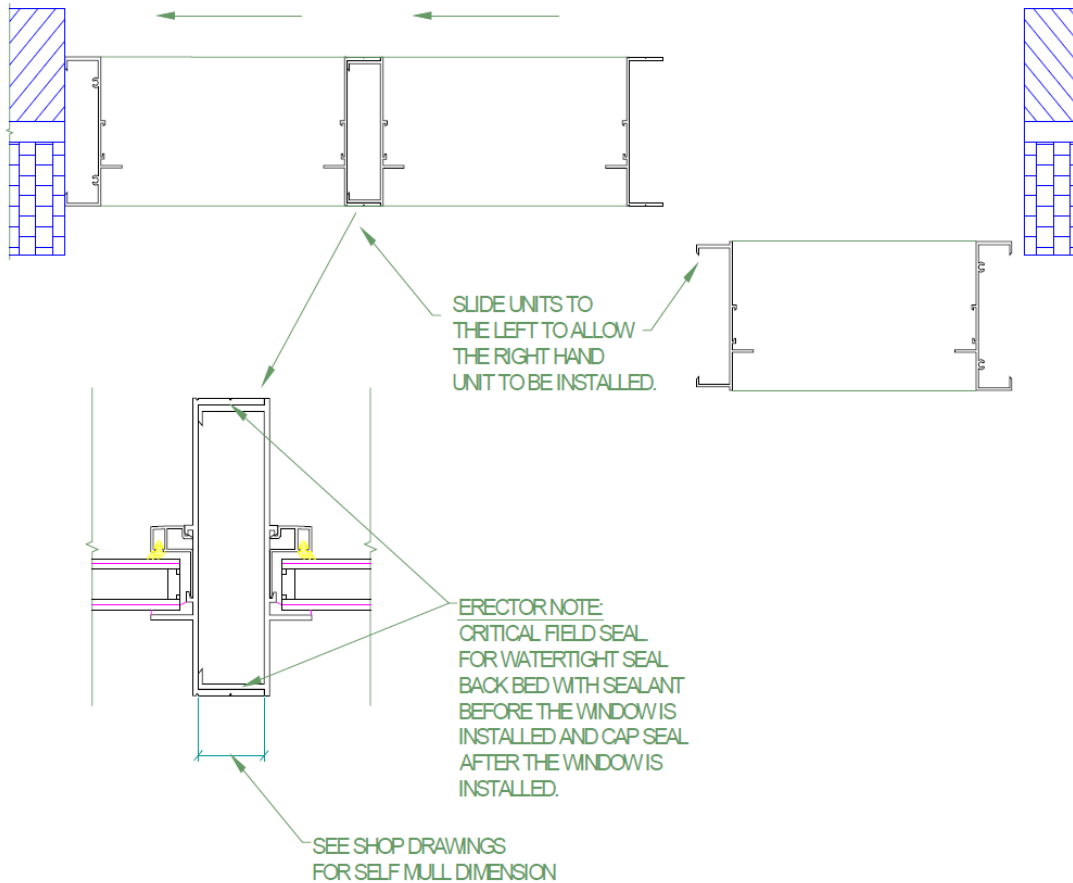
2. Installation of Architectural Sills

- A. Establish the correct location of the architectural sill from the approved shop drawings.
- B. Locate the architectural sill anchor clip positions 3" from each end and approximately 18" O.C. MAX, unless otherwise specified on approved shop drawings or anchor calculations.
- C. Drill the anchor hole using the anchor clip as a template.
- D. Shim the clips and sill as necessary to set level across the span of the opening.
- E. Based on the approved shop drawings, apply a bed of grout or a high impact resistant shim for the architectural sill to rest on.
- F. Hook the exterior leg of the architectural sill over the exterior leg of the anchor clip and press the sill into a bed of grout or sealant.



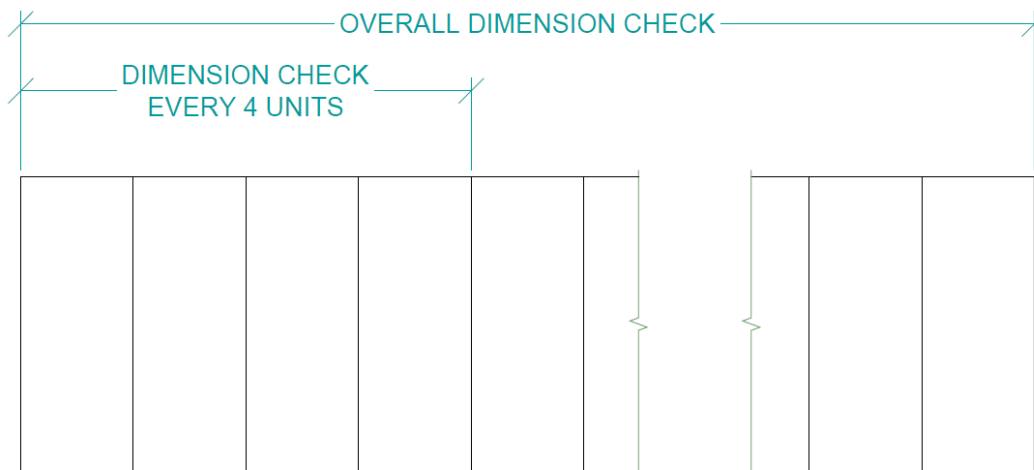
3. Installation of Self-Mulling System

If self-mulling is utilized, it will be necessary to either stack the units together prior to placing them in the opening, or place them in the opening and slide all units to one side, allowing for the last unit to be installed.



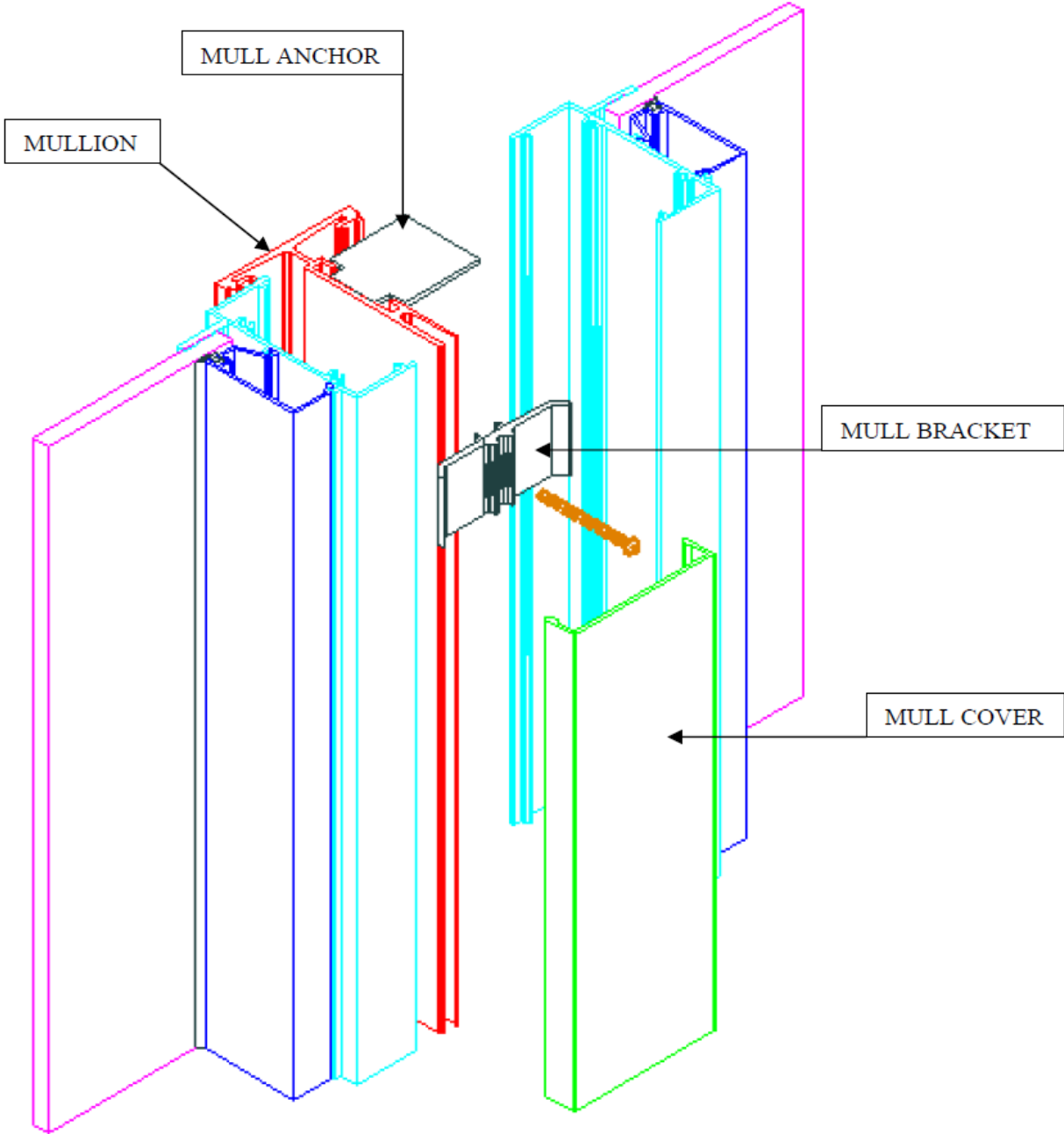
4. Installation of Mullions without Sub Frame or Panning

- A. Refer to the shop drawings for the correct centerline location of the mullion.
- B. For elevations not using sub frame or panning, mullions are supplied 1" longer than the opening dimension, square cut, to allow for field trimming as required.
- C. Set the mullion into the opening. Plumb the mullion to the opening. Fasten the mullion to the opening by using the mullion anchor clips supplied by All Seasons. Locate one clip at the construction head and one at the sill. Attach the clips to the opening with erector furnished fasteners. Then attach the mullion to the mull anchors with All Seasons furnished fasteners.
- D. Attach the mullion brackets to the mullion as close to the top and bottom as possible and then 12" O.C. with All Seasons supplied fasteners.
- E. Field cut the vertical mullion cover to fit between the opening conditions and snap over the mullion brackets.



ERECTOR NOTE:
CHECK THE OVERALL FRAME DIMENSIONS
ON EVERY 4 OPENINGS ON LONG RUNS
TO AVOID DIMENSIONAL BUILD UP.

COMPLETELY READ ALL SECTIONS WHICH PERTAIN TO YOUR PROJECT BEFORE STARTING WORK. THIS IS FOR GENERAL RECOMMENDED ERECTION PROCEDURES ONLY. FOR ACTUAL JOB CONDITIONS, SEE THE DETAILS ON THE SHOP



HUNG WINDOW INSTALLATION

1. General Procedure

- A.** Install the frame plumb, level, and true. Hold a constant vent opening for both the height and width.
- B.** Erector note: All hung windows are to be blocked and anchored at the midpoint of each jamb in order to prevent the jambs from bowing or twisting. The window width at the midpoint of the jambs should be within 1/16" of the window width at the head and sill. All fasteners at the jambs shall be flat heads.
- C.** Double hung windows are shipped from the factory with a temporary shipping cord around the window. This cord must remain attached around the window until just prior to installation into the opening. Early removal can cause rolling, spreading, and twisting of the frame jamb. This can result in disengagement of the sash balance, disengagement of the sash from the frame, and severe personal injury.
- D.** Due to the attachment and location of all balances, refer to the project shop drawings for any through-jamb anchoring method. Please consult the Account Estimator for assistance in jamb anchorage not specifically shown on the shop drawings.

CASEMENT WINDOW INSTALLATION

1. General Procedure

- A.** Install the frame plumb, level, and true. Hold a constant vent opening for both the height and width.

- B.** Erector note: All casement windows must be securely anchored through the hinges to the building substrate to prevent sagging of the vent when opened. If closures are used, blocking must be placed at hinge locations between the closure and the window jamb, and the hinges must still be securely anchored to the substrate. Refer to project shop drawings for correct placement of hinge blocking and anchoring.

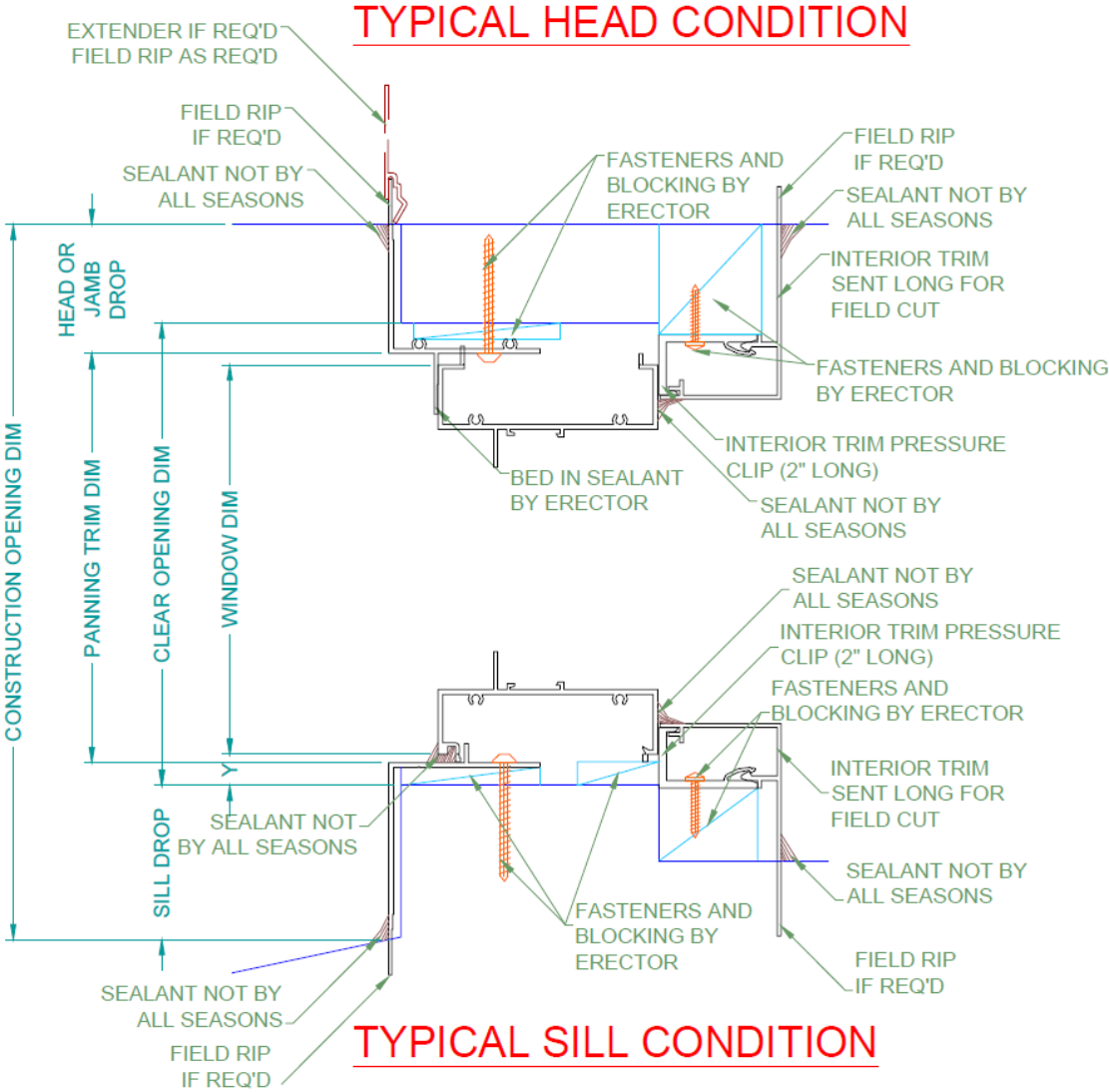
PANNING FRAME INSTALLATION

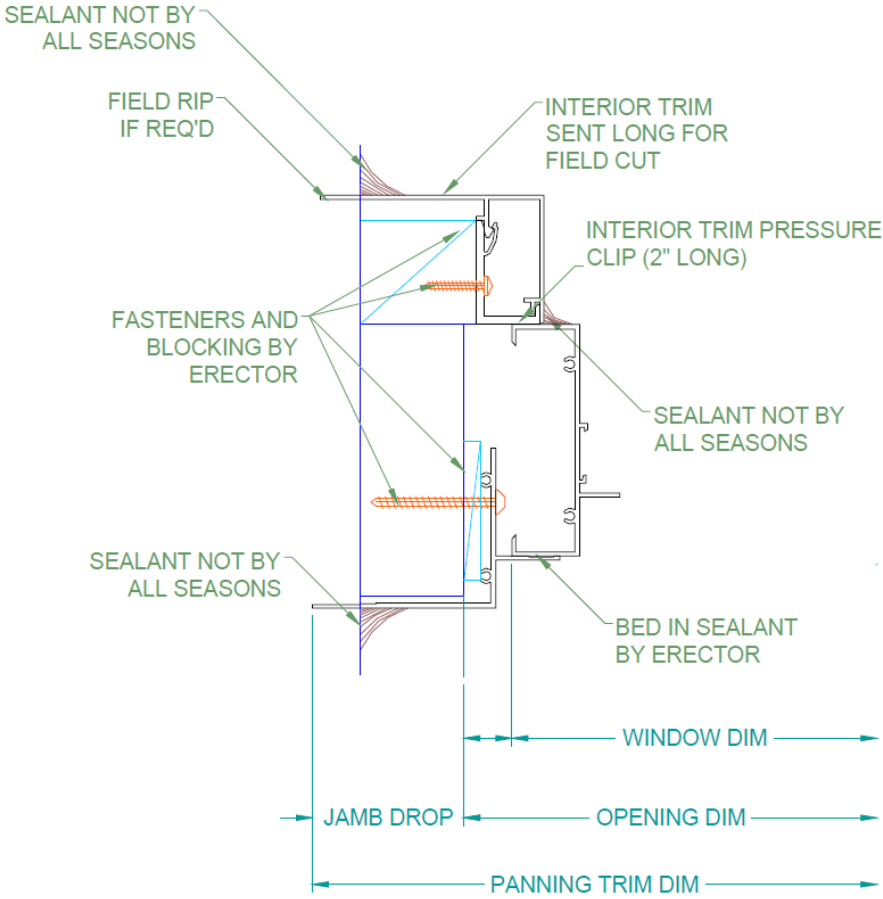
1. General Procedure

Typical panning material is shipped already cut to size and fabricated to fit the window dimension. The perimeter flange of the panning is to be field trimmed to fit the construction opening. Windows, panning frames, and accessories will have the same window mark designations.

- A.** Field-assemble the panning frame with supplied pan head screws.
- B.** Determine the correct panning placement in the opening. All Seasons combination of panning, window, and trim is provided to entirely cover the old torn-out section. Refer to the shop drawing details for correct panning placement in order to allow for correct coverage.
- C.** Determine the exact panning sill face dimension by adding together the sill drop plus the “Y” dimension and rip down the flange of the sill panning.
- D.** Determine the required panning frame height and cut any excess from the panning head. If additional coverage is required panning extenders can be purchased.
- E.** Determine the required panning width and remove excess equally from both panning jambs. Panning extenders can be purchased if additional coverage is required.
- F.** Use siliconized sealant to cover all screw heads and all panning frame joints on the non-exposed side of the panning.
- G.** Pull the panning frame into the opening from the exterior. Make sure the interior trim will cover all exposed interior perimeter conditions before anchoring the panning.
- H.** Attach the entire panning perimeter square, plumb, and level into the opening at 18” O.C. with attachment screws not by All Seasons. If mullions are required, refer to the mullion installation.
- I.** Caulk the perimeter of the pan frame to the surrounding construction opening. Back bed the panning vinyl with sealant just before insertion of the window. The window must be wet sealed to the panning if vinyl is not available.

- J.** Set the exterior sill leg of the window onto the sill of the panning frame. Then push the window head and jamb in against the panning head and jamb.
- K.** Install the interior trim pressure clips. Start by attaching the first clip approximately 6" from each corner, then every 18" O.C. around the entire window perimeter. Attach clips to the opening with erector furnished anchors. Drilling holes in the clips is not by All Seasons. The trim clips provide the structural support for the window unit. Each clip must be attached to the substrate.
- L.** All interior trim covers are sent long to be field cut. Horizontal interior trim covers run through unless noted on the shop drawings. First measure the interior horizontal opening width and cut the horizontal trim covers accordingly, then snap in place.
- M.** Measure between the horizontal trim covers, and then cut the vertical trim covers to the proper length. Snap the vertical trim covers into place.





TYPICAL JAMB CONDITION

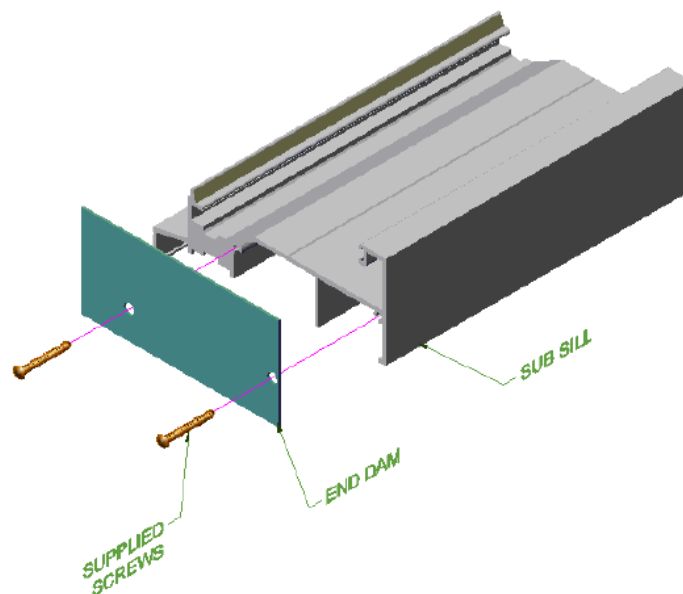
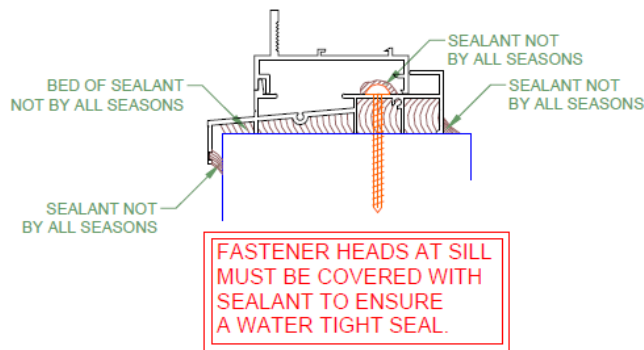
2. Mullion Installation in Panning

- A.** First complete steps A through H in the panning installation. (Page 15)
- B.** Refer to the shop drawings for the correct centerline location of the mullions.
- C.** Set the mullion into the opening. Plumb the mullion to the opening. Fasten the mullion to the opening by using the All Seasons supplied mullion anchor clips. Located one clip at the construction head and one at the sill. Attach the clips to the opening with erector furnished fasteners, and then attach the mullion to the mull anchors with All Seasons furnished fasteners.
- D.** Attach the mullion brackets to the mullion as close to the top and bottom as possible and then 12" O.C. with All Seasons supplied fasteners
- E.** Field cut the vertical mullion cover to fit between the opening conditions and snap over the mullion brackets.

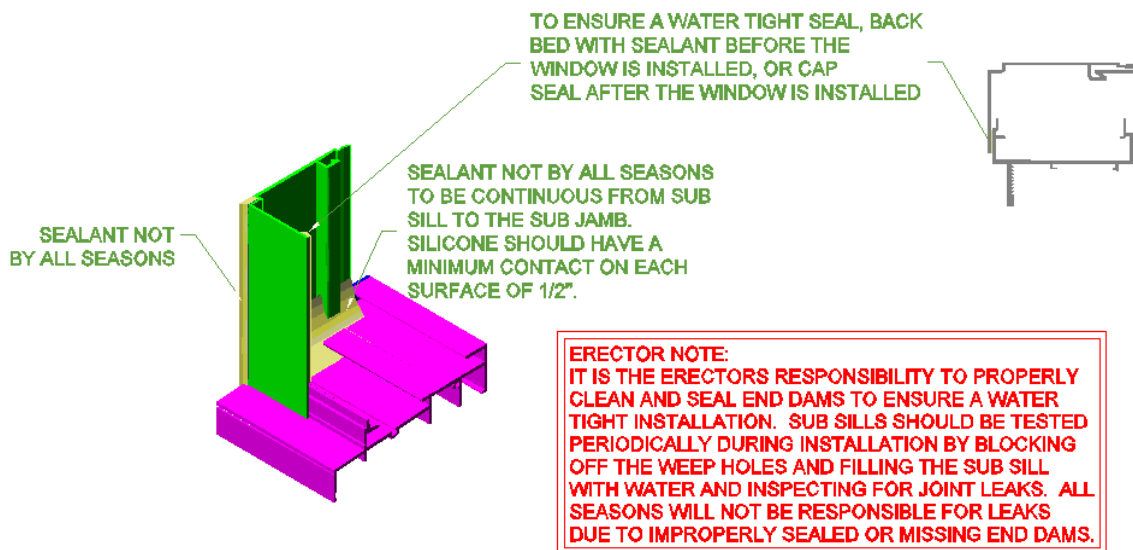
SUB FRAME INSTALLATION

1. General Procedure

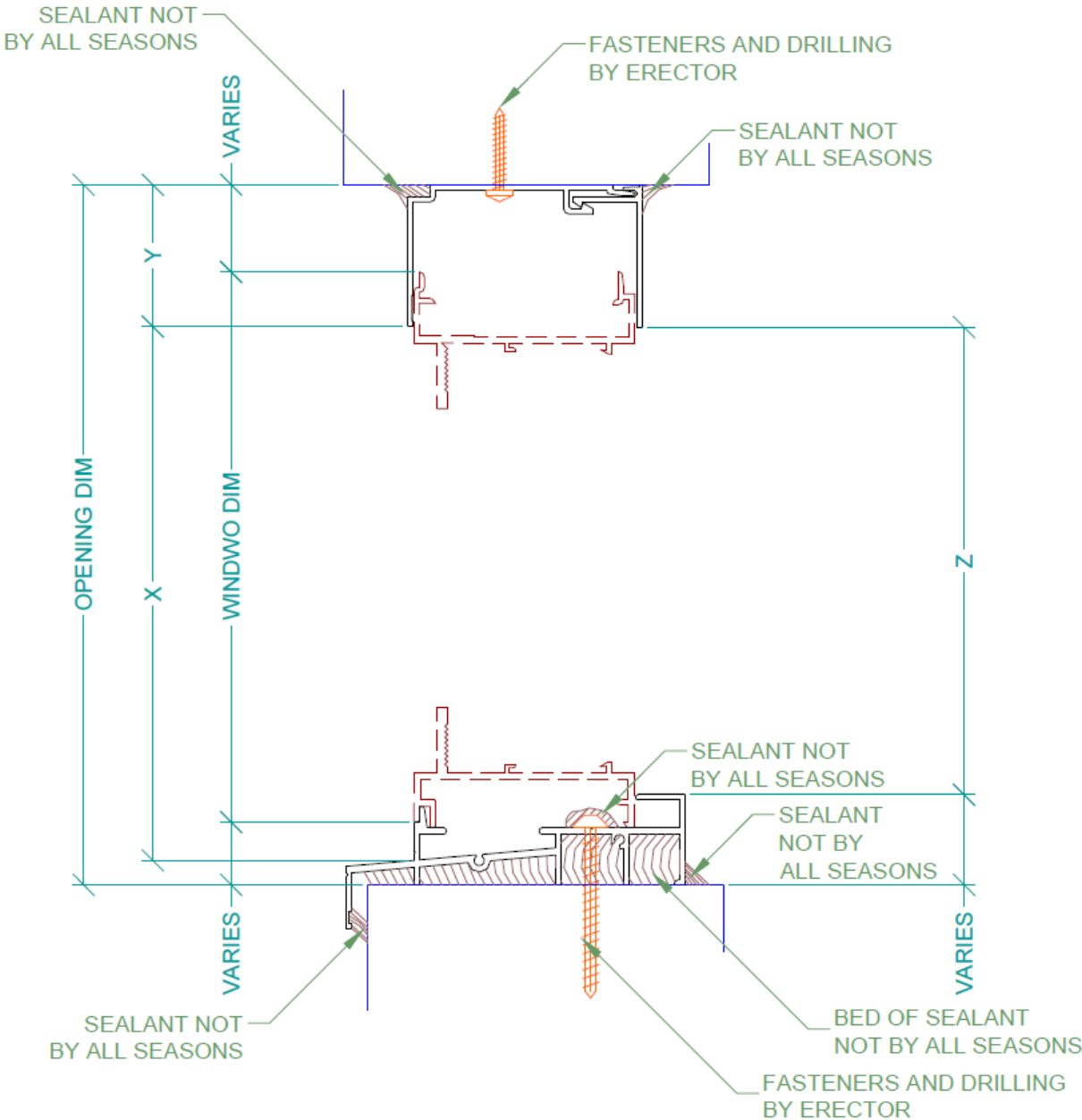
- A.** Measure the horizontal opening dimension. All sub frame material is shipped long for field cut and field drilling.
- B.** Square cut the sub sill to fit the opening dimension. Trim weather stripping to the appropriate length using caution not to stretch the material. Compact any excess as needed.
- C.** Field butter each end of the sub sill with silicone and apply supplied end caps. Caulk all screw heads.
- D.** Set the sub sill in a full bed of sealant. Then anchor the sub sill with erector-supplied fasteners and apply sealant to all fastener heads.
- E.** Weep holes are factory applied.



- F. Measure for the sub jamb length.
- G. Subtract your "Y" dimension from the "X" dimension. Square cut the sub jambs to this length from the top of the sub jamb. The sill end of the sub jamb typically has notching by All Seasons to fit the sub sill.
- H. Install the sub jambs plumb, shimming as necessary. Then install the sub head using the sub jambs as a guide. Fasteners and shims are not by All Seasons.
- I. Field seal all butt joints, tooling sealant from inside the sub frame.
- J. Seal the sub frame to the building opening around the entire exterior and interior perimeter using a silicone compatible sealant as specified by the architect or contractor.
- K. Back bed the window to the sub frame contact area with silicone sealant before installing the window. Otherwise cap seal after the window is installed.
- L. For jobs with sub heads, field cut to length and install the sub head tight to the opening condition.
- M. Measure the "Z" dimension for sub jamb closure length. Square cut closure to fit.
- N. To ensure a watertight seal at the interior, set the closure in a bed of sealant (unless a vinyl is provided).



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2. Mullion Installation in Sub Frame

- A.** First complete steps A through I on sub frame installation. (Pages 20 & 21)
- B.** Refer to shop drawings for correct centerline location of the mullions. Mullions are typically factory notched at the sill and head ends to fit the sub frame.
- C.** Set the mullion into the sub frame. Plumb the mullion to the opening. Fasten the mullion to the opening by using All Seasons supplied mullion anchor clips. Locate one clip at the construction head and one at the sill. Attach the clips to the opening with erector furnished fasteners, and then attach the mullion to the mull anchors with All Seasons furnished fasteners.
- D.** Now follow steps J and K of sub frame installation. (Page 21)
- E.** Attach the mullion brackets to the mullion as close to the top and bottom as possible and then 12" O.C. with All Seasons supplied fasteners.
- F.** Field cut the vertical mullion cover to fit between the opening conditions and snap over the mullion brackets.

3. Sill and Receptor Splice Joint Details

- A. Splice joints should be every 19'-6" maximum with a 3/8" minimum separation.
- B. Field apply non-hardening, skinning sealant at the joint to prevent water infiltration. Splice joints must be between windows, not under a window.

