PRL GLASS SYSTEMS | Aluminum ARCHITECTURAL PRODUCTS
Complete Glazing Solutions

PRL Aluminum Inc
114760 Don Julian Rd. Industry, CA.
91746
877-775-2586

PRL ALUMINUM STOREFRONT

250DT SERIES
INSTALLATION MANUAL

FRAME 2” X 4-1/2”

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HANDLING, **STORAGE** & *PROTECTION* **OF ALUMINUM**

The following precautions are recommended to protect the material against damage.

Following these precautions will help ensure early acceptance of your products and workmanship.

A HANDLE CAREFULLY

All aluminum materials at job site must be stored in a safe place well removed from possible
damage by other trades. Cardboard wrapped or paper interleaved materials must be
kept dry.

B CHECK ARRIVING MATERIALS.

Check for quantity and keep records of where various materials are stored.

C KEEP MATERIAL AWAY FROM WATER, MUD AND SPRAY.

Prevent cement plaster or other materials from damaging the finish.

D PROTECT THE MATERIALS AFTER ERECTION.

Protect erected frame with polyethylene or canvas splatter screen. Cement, plaster, terrazzo,
other alkaline solutions and acid based materials used to clean masonry are harmful to the
finish. ***If any of these materials come in contact with the aluminum, IMMEDIATELY remove with water and mild soap.***

GENERAL
INSTALLATION NOTES

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RECOMMENDED **GUIDELINES** FOR *ALL* **INSTALLATIONS**

REVIEW CONTRACT DOCUMENTS

Check shop drawings, installation instructions, architectural drawings and shipping lists to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the project.
Note and field verified notes on the shop drawings prior to installing. The installation instructions are of general nature and cover most conditions.

INSTALLATION

All materials are to be installed plumb, level and true

BENCHMARKS

All work should start from benchmarks and/or column lines as established by the architectural drawings and the general contractor with guaranteed accuracy. Working from these datum points and lines determine:
a) The plane of the wall in reference to offset lines provided on each floor.
b) The finish floor lines in reference to benchmarks on the outer building columns.
c) Mullion spacing from both ends of masonry opening to prevent dimensional build-up of daylight opening.

FIELD WELDING

All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Results will be unsightly and/or structurally unsound. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.

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SURROUNDING CONDITIONS

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

ISOLATION OF ALUMINUM

Aluminum to be placed in direct contact with uncured masonry or incompatible materials should be isolated with a heavy coat of zinc chromate or bituminous paint.

SEALANTS

Sealants must be compatible with all materials with which they have contact, including other sealant surfaces. Consult with sealant manufacturer for recommendations relative to joint size, shelf life, compatibility, cleaning/priming, tooling, adhesion, etc. It is the responsibility of the Glazing Contractor to submit a statement from the sealant manufacturer indicating that glass and glazing material have been tested for compatibility and adhesion with glazing sealants, and interpreting test results relative to material performance, including recommendations for primers and substrate preparation required to obtain adhesion. The chemical compatibility of all glazing materials and framing sealants with each other and with like materials used in glass fabrication must be established. This is required on every project.

FASTENING

Within the body of these instructions "fastening" means any method of securing one part to another or to adjacent materials. Only those fasteners used within the system are specified in these instructions. Due to the varying perimeter conditions and performance requirements perimeter and anchor fasteners are not specified in these instructions. For perimeter and anchor fasteners refer to the shop drawings or consult the fastener supplier.

BUILDING CODES

Due to the diversity in state/provincial local and federal laws and codes that govern the design and application of architectural products it is the responsibility of the individual architect owner and installer to assure that products selected for use on projects comply with all the applicable building codes and laws. PRL ALUMINUM, INC. exercises no control over the use or application of its products, glazing materials and operating hardware and assumes no responsibility thereof.

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EXPANSION JOINTS

Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at normal size. Actual dimensions may vary due to perimeter conditions and/or difference in metal temperature between the time of fabrication and the time on installation. Gap between expansion members should be based on temperature at time of installation.

WATER HOSE TEST

As soon as a representative amount of the wall has been glazed (500 square feet) a water hose test should be conducted in accordance with AAMA 501.2 specifications to check the installation. On all jobs the hose test should be repeated every 500 square feet during the glazing operation.

COORDINATION WITH OTHER TRADES

Coordinate with the general contractor any sequence with other trades, which offset curtain wall installation (i.e. fire proofing, back-up walls, partitions, ceilings, mechanical ducts, converters etc.)

CARE AND MAINTENANCE

Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA. 609.1 anodized aluminum and 610.1 for painted aluminum.

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	**DANGER OF BEING CAUGHT** Warning: To avoid injury, keep fingers away from moving parts during handling.
	**DANGER OF FALLING** Warning: Open sections may present a fall risk. Keep children and unauthorized personnel away.
	**DANGER OF FALLING OBJECTS** Warning: Risk of falling objects through open sections, especially during cleaning or maintenance.

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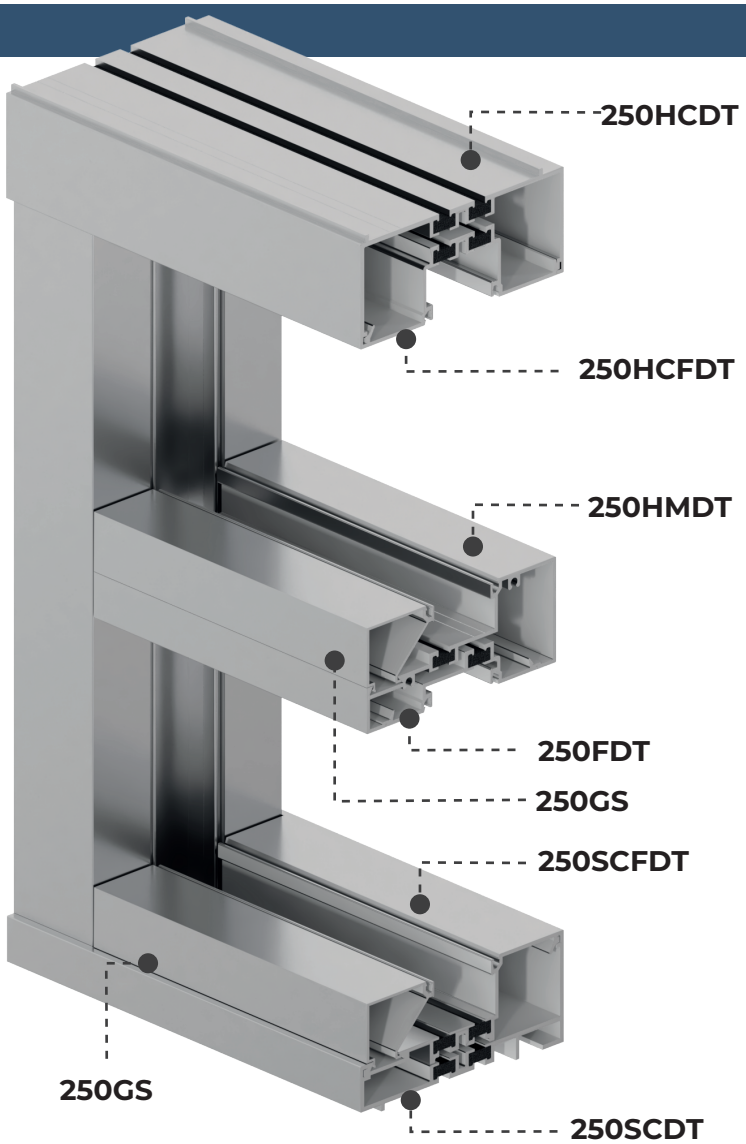
**Measure ROUGH OPENING minus perimeter seal joint to determine FRAME DIMENSION. Allow 1/4" minimum clearance for shimming and sealant around perimeter.*

FRAME FABRICATION

1 CUT MEMBER TO SIZE:

Head and Sill channels: **(Parts 250HCDT & 250SCDT)**	**FRAME WIDTH**
Wall Jamb and Vertical: **(Parts 250WJDT & 250VMDT)**	**(FRAME WIDTH) - 1/2”**
Head and Sill fillers: **(Parts 250HCFDT & 250SCDT)**	**(D.L.O.) - 1/32”**
Horizontal members: **(Parts 250HMDT)**	**(D.L.O.) - 1/32”**
Horizontal glazing stop: **(Parts 250GS)**	**(D.L.O.) - 1/32”**
Sill channel glazing stop: **(Parts 250GS)**	**(D.L.O.) - 1/32”**



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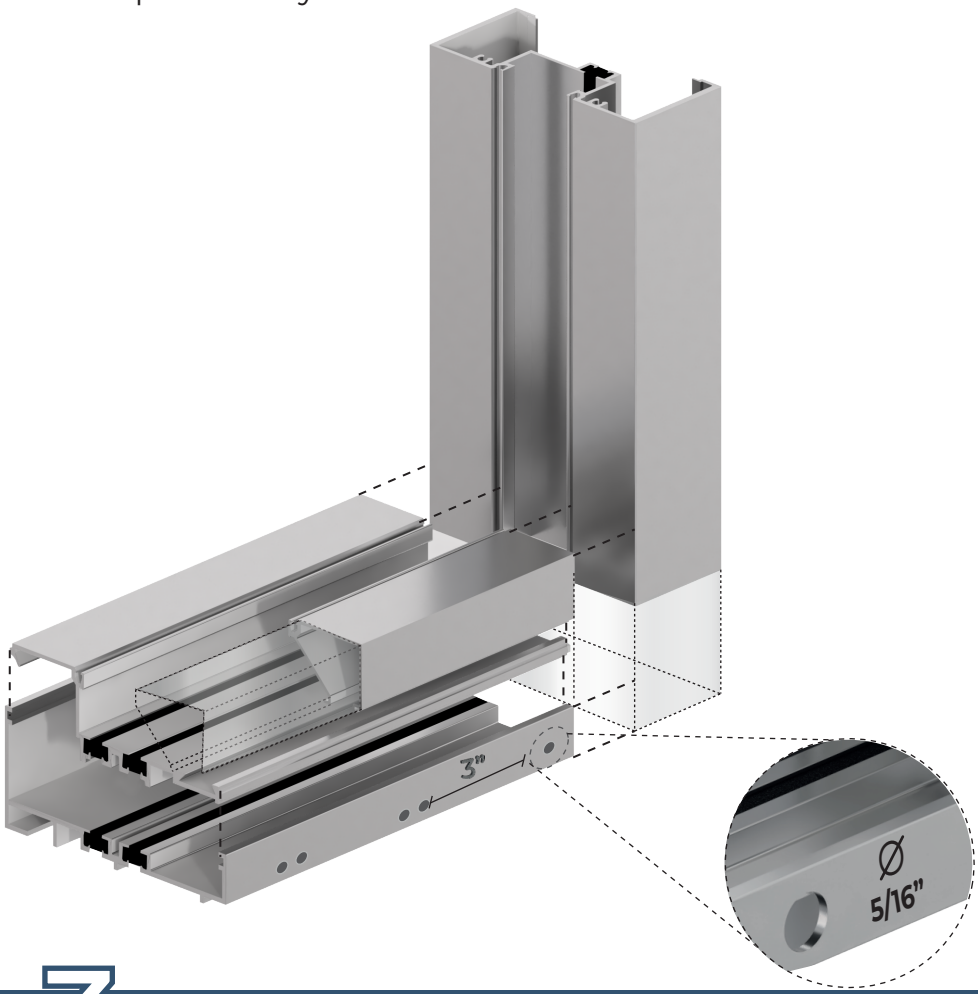
2 WEEP HOLES

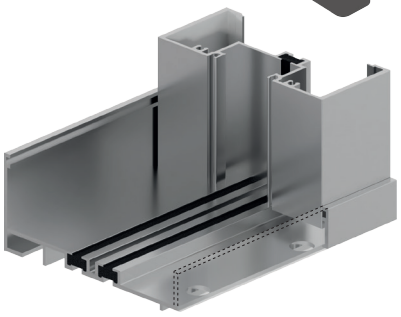
Drill 5/16" diameter weep holes in sill channel, two per lite @ 3" from vertical mullion. Weep slots may be drilled in face or bottom of sill channel.



DRILLED

FACE
OF SILL CHANNEL

OR



BOTTOM
OF SILL CHANNEL

3 DRILL JIGS

Mark horizontal locations on mullion and with drill jigs, drill holes for assembly screws.
The use of drill jigs is recommended.

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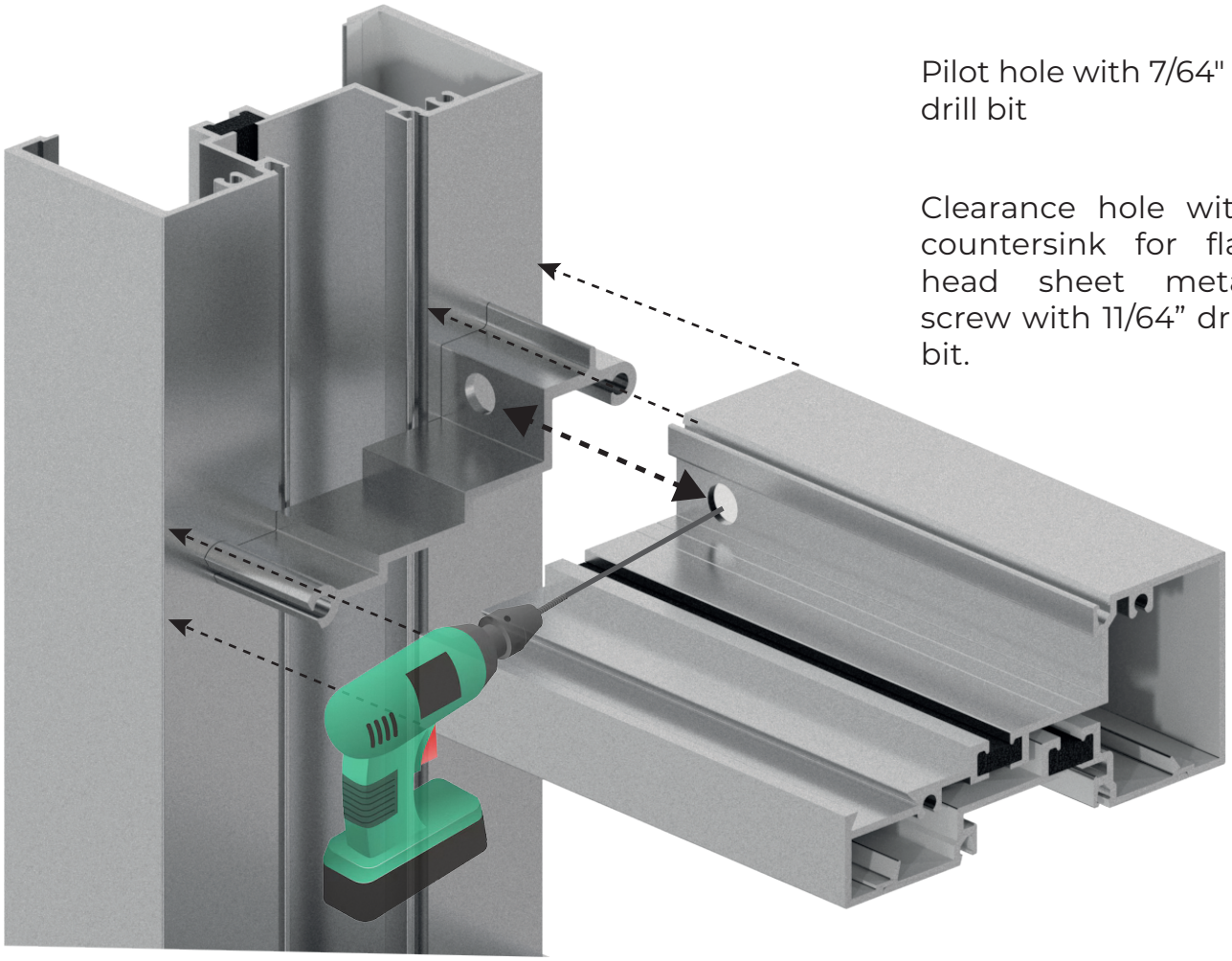
4 ANCHOR SCREWS

Prepare end of horizontals for # 10 x 1/2" F.H.S.M. anchor screws.



Pilot hole with 7/64" drill bit

Clearance hole with countersink for flat head sheet metal screw with 11/64” drill bit.

Use a countersink bit for flat head screws (usually 82° angle).

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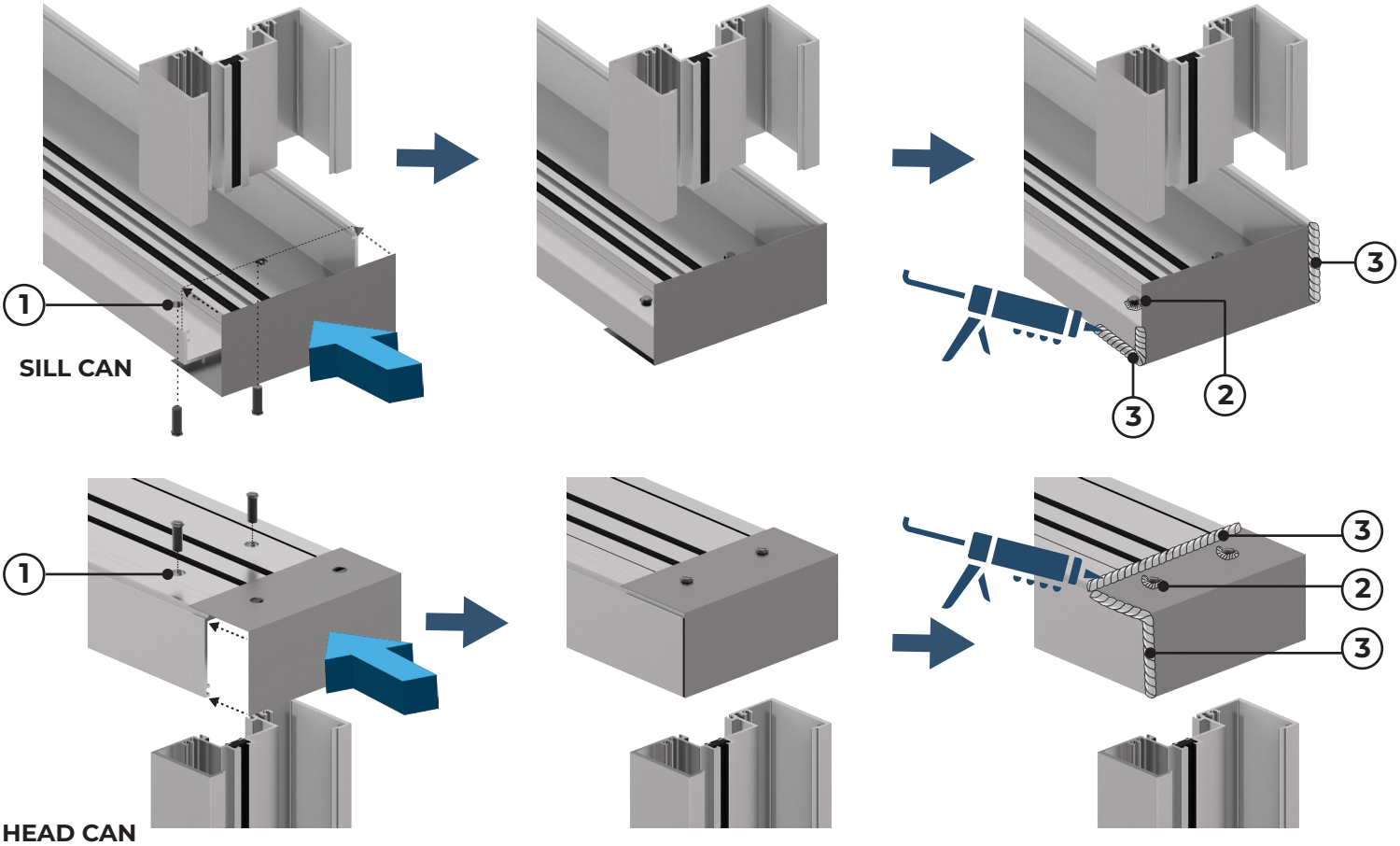
5 END DAMS

Apply end dams to head and sill channel at ends and secure with screws.
Seal around and up joint to make water tight.



Clean all surfaces prior to applying sealants. See sealant manufacturer requirements.

1. INSTALL END DAMS AT BOTH ENDS OF THE HEAD AND SILL CHANNELS AND FASTEN THEM WITH SCREWS
2. SEAL END OF SCREW W/ SEALANT
3. SEAL JOINERY SILL CAN AND HEAD CAN TO END DAM COMPLETELY PRIOR TO INSTALL END JAMB

FRAME
INSTALLATION

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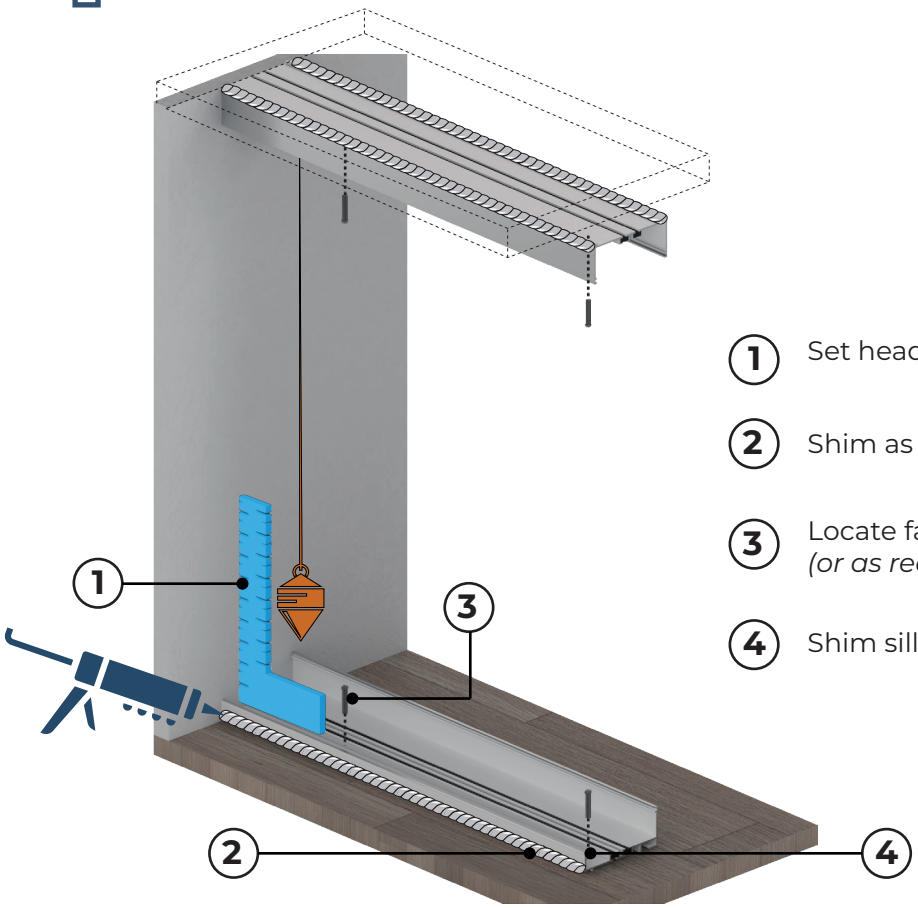
FRAME INSTALLATION

1 HEAD & SILL



1. Set head and sill channels in place plumb and square
2. Shim as required to level and anchor to structure.
3. Locate fasteners 6" from end of channel and 24" o.c. *(or as require per engineer)*
4. Shim sill and head channel at fastener locations.

- Holes for fasteners should be slotted horizontally to allow for thermal movement and seal over fastener head with sealant.
- Hard anchor head and sill channel to structure at mid-point of cut lenght.
- Make sure sill channel remains clean of debris during installation to prevent blockage of weep holes.

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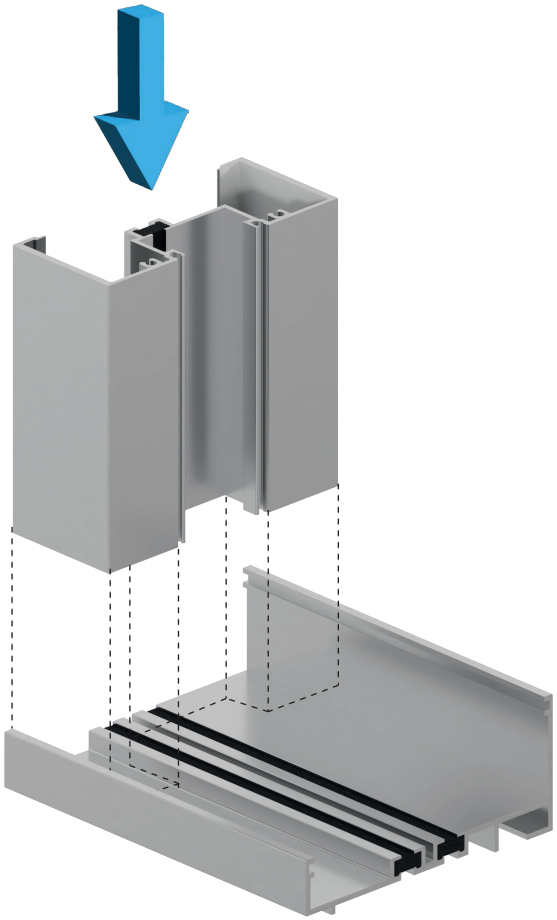
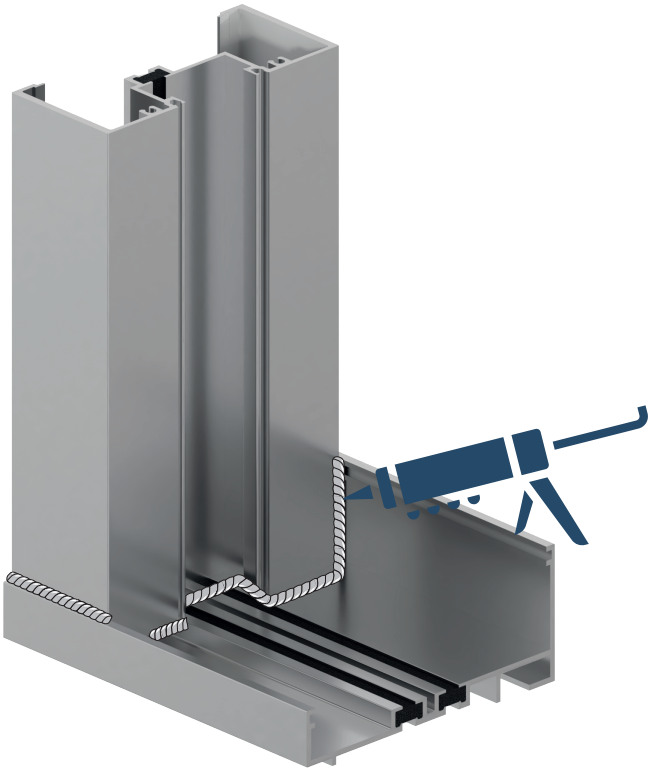
FRAME INSTALLATION

2 JAMB

Install jamb member into head and sill channels. Shim and plumb as require.



Shim as required.
** Do not shim behind end dam.*



Head and sill fasteners.
NOTE:
CRITICAL SEAL area Carefully seal over head of fasteners at sill only.

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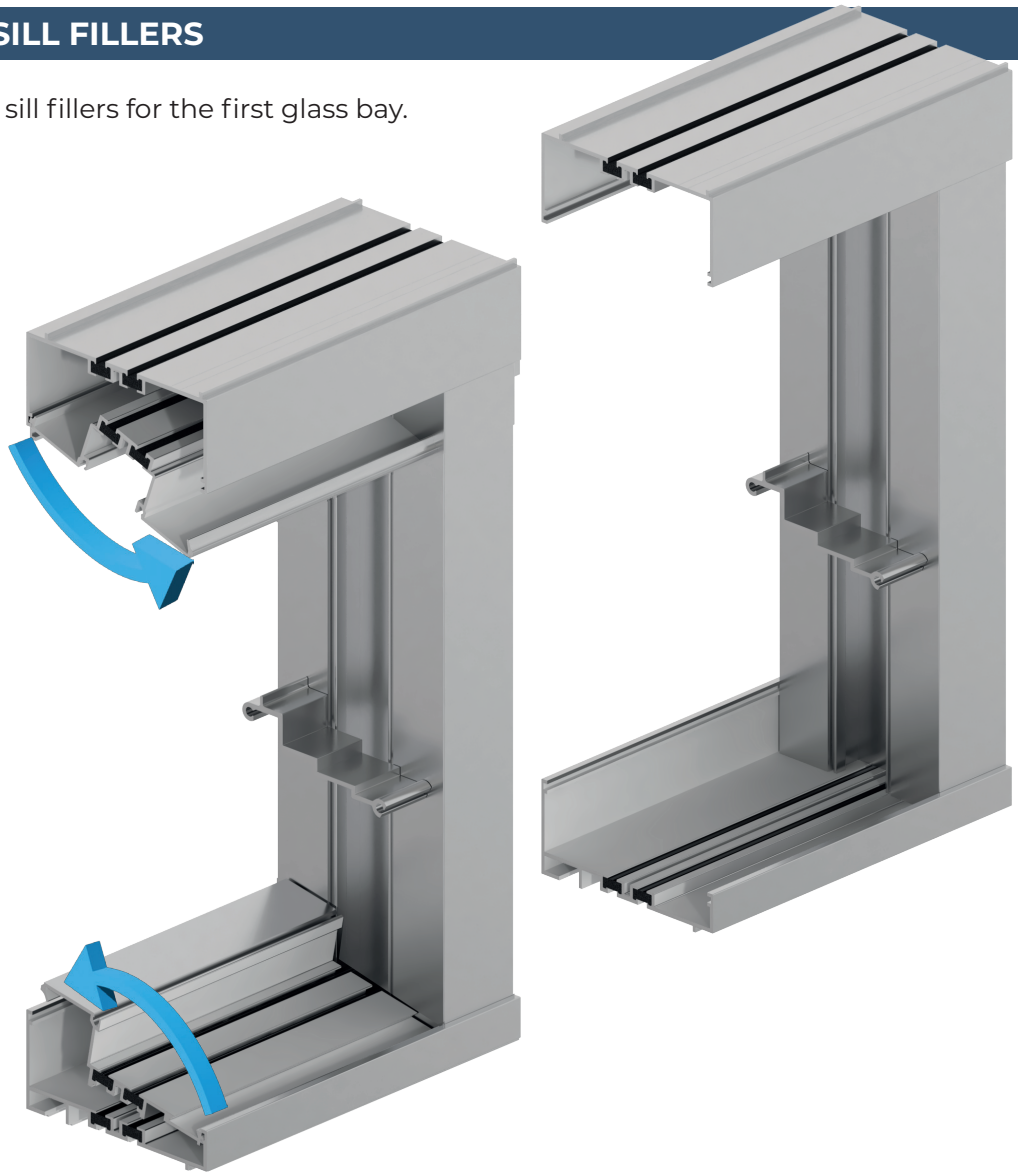
FRAME INSTALLATION

3 HEAD & SILL FILLERS

Snap-in head and sill fillers for the first glass bay.



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FRAME INSTALLATION

4 VERTICALS

Install next vertical tight against head and sill fillers.

NOTE: Verticals for 1" glazing are not symmetrical.

- Never allow two shallow pockets to face each other.
- Seal joint where verticals meet head and sill.
- Verticals must be secured to head/sill channels when end reactions exceed 500lbs.

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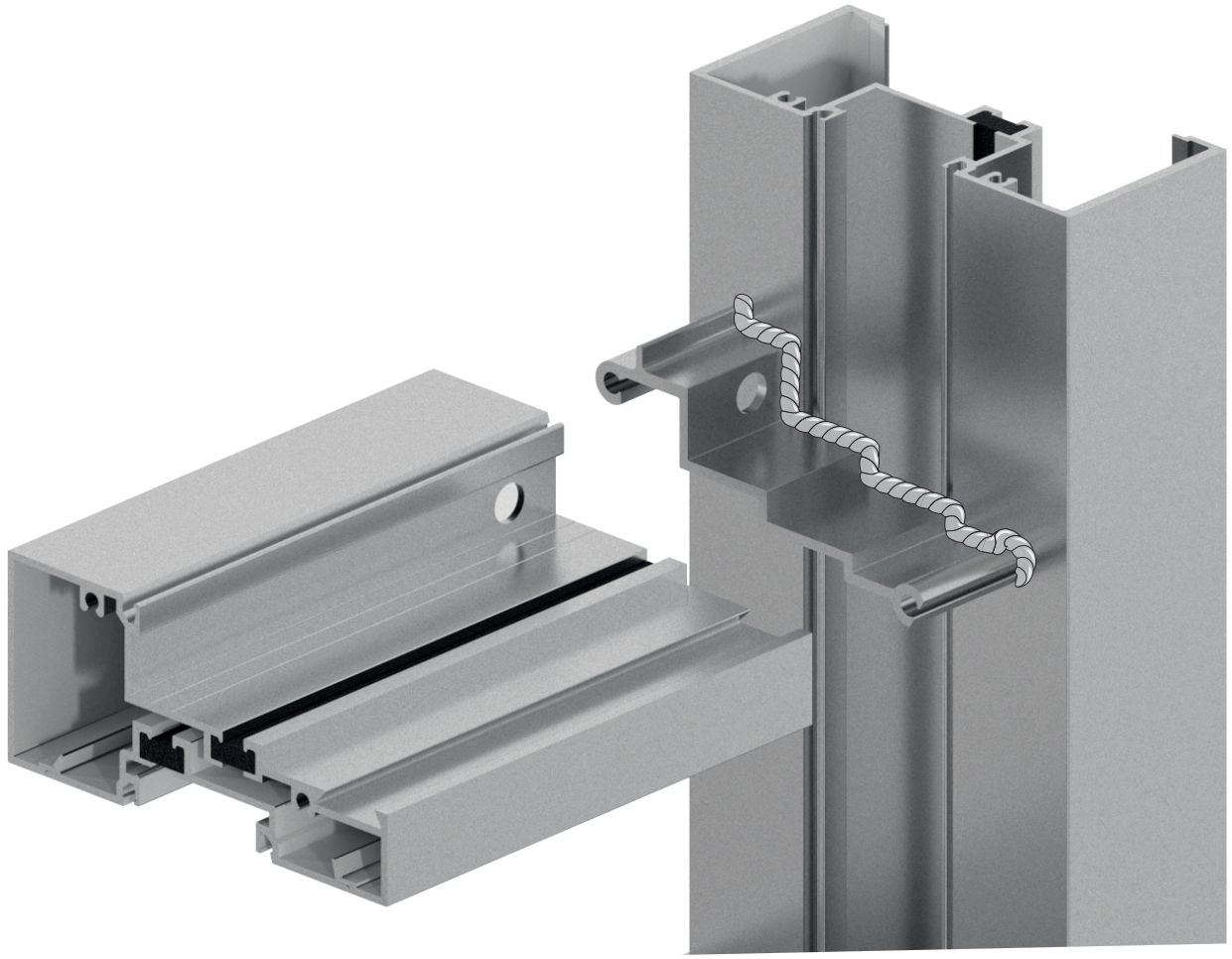
FRAME INSTALLATION

5 ANCHOR CLIP

Butter anchor clip contact areas and joints prior to horizontal installation.



FRAME
INSTALLATION

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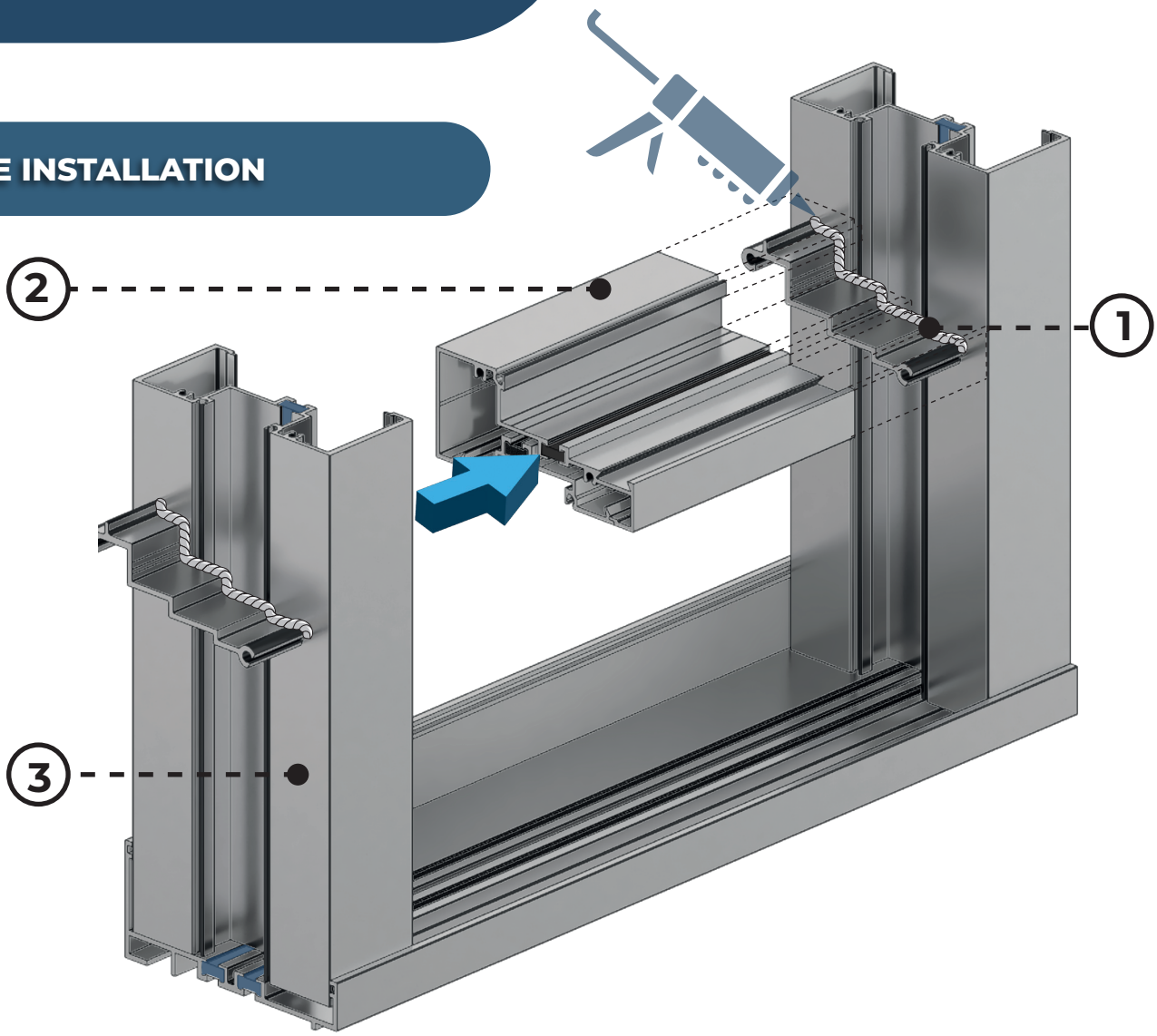
FRAME INSTALLATION

6



1. Apply sealant to clip joint before horizontal member installation.
2. Slide horizontal over anchor clip.
3. Install next vertical inside head and sill channels and slide it to place.

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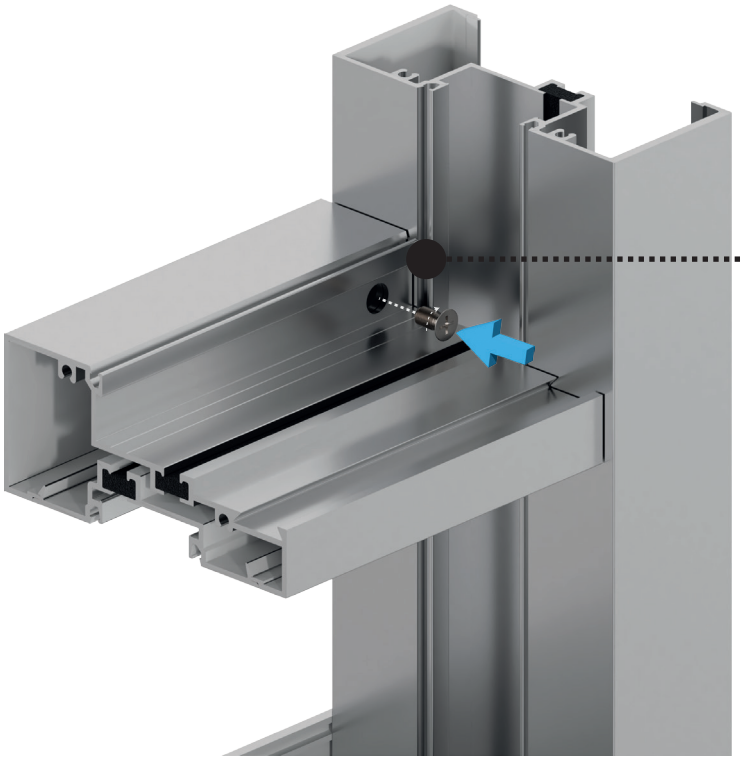
FRAME INSTALLATION

7 ANCHOR CLIP



Secure Horizontal to anchor clip w/ # 10 x 1/2" F.H.S.M.S.