INSTALLATION INSTRUCTIONS

2” x 4 1/2” for 1” Glass

Deep pocket allows for direct anchor attachment to substrate without flat filler plate.

1/4” Ø perimeter anchor holes allows for direct anchor attachment to substrate without flat filler plate.

Deep pocket allows for hex head fasteners to be used for anchor attachment.

Screw-spline joinery for #14 x 1” HWHSTS

Full height subsill flashing.

Allows for direct attachment to substrate without blind seals.
These instructions are for typical installations. Reference shop drawings for special notations on installations and glazing.

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RECOMMENDED GUIDELINES FOR ALL INSTALLATIONS:

1. **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. Field verified notations shown within shop drawings must be resolved prior to installation. The installation instructions are of general nature and cover most conditions.

2. **INSTALLATION.** All materials shall be installed plumb, level and true.

3. **BENCHMARKS.** All work should start from established benchmarks and column center lines established by the architect and general contractor.

4. **FIELD WELDING.** All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.

5. **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.

6. **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.

7. **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 materials 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.

8. **FASTENING.** Only those fasteners used within the system are specified in these instructions. Due to the varying perimeter conditions and performance requirements perimeter fasteners are not specified in these instructions. Reference the shop drawings or anchor charts for perimeter fasteners.

9. **BUILDING CODES.** Due to the diversity in state, local and national codes that govern the design and application of architectural products, it is the responsibility of the architect, owner and installer to assure that products selected for use on each project comply with all the applicable building codes and laws. CORAL ARCHITECTURAL PRODUCTS exercises no control over the use or application of it’s products, glazing materials and operating hardware and assumes no responsibility thereof.

10. **EXPANSION JOINTS.** Expansion joints and perimeter seals shown in these instructions and shop drawings are shown at normal size. Expansion mullion gaps should be based on temperature at time of installation.
INSTALLATION INSTRUCTIONS
- General Installation Information -

11. WATER HOSE TEST. After a representative amount of the storefront system has been glazed (500 square feet) and the sealant has cured, a water hose test should be conducted in accordance with AAMA 501.2 specifications to check the installation. This test should be repeated every 500 square feet during the glazing operation. Note: This test procedure should not be used for entrance doors.

12. COORDINATION WITH OTHER TRades. Coordinate with the general contractor and sequence with other trades items which offset the storefront installation such as back-up walls, partitions, ceilings and mechanical ducts.

13. MATERIAL HANDLING:
   A. SHOP
      1. Cardboard wrapped or paper interleaved material must be kept dry.
      2. Immediately remove aluminum from cardboard wrapped or paper interleaved materials should it get wet to prevent staining or etching aluminum finish.
      3. Check arriving materials for quantity and keep record of where various materials are stored.
   B. JOB SITE
      1. Material at job site must be stored in a safe place well removed from possible damage by other trades.
      2. Cardboard wrapped or paper interleaved material must be keep dry. (See 13.A.2)
      3. Keep record of where various materials are stored.
      4. Protect materials after erection. Cement, plaster, mortar and other alkaline solutions are very harmful to the finish.

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

15. CORAL ARCHITECTURAL PRODUCTS. It is the responsibility of CORAL ARCHITECTURAL PRODUCTS to supply a system to meet the architect’s specifications.
FRAME FABRICATION

Establish Frame Size and Cut Metal to Length

STEP 1.
Measure width of rough opening.
A. Measure opening at bottom.
B. Measure opening at center.
C. Measure opening at top.
   The frame width will be the smallest dimension less 1/2”
   allowing for a minimum 1/4” caulk joint at each jamb.

Repeat process to determine frame height.
A. Beginning on left side of opening, measure dimension from top to bottom.
B. Repeat at center.
C. Repeat at right side of opening.
   The frame height will be the smallest dimension less 1 ¼” allowing 5/8”
   for subsill and a 1/4” caulk joint at the head and beneath the subsill.

STEP 2.
Cut members to size.
A. Cut subsill to frame dimension plus 1/4”. The subsill at entrance locations
   butt tight against door jambs and is cut 1/8” longer than width of side lights
   on either side of door frame.
B. Wall jambs and intermediate vertical mullions are cut to frame height.
C. Horizontal members are cut to D.L.O.
D. Snap-on glass stops are cut D.L.O. minus (-) 1/16”.

FRAME FABRICATION

STEP 3.
Mark location for horizontals on vertical extrusions and drill holes for screw spline. Reference STEP 4 for correct orientation of drill jig.

NOTE: FL300T parts are handed. Carefully ensure to hand parts prior to layout of horizontal locations. The illustration below depicts parts as they would be snapped together, thus handed / orientated correctly. See Step 4 Diagram.

Note: Thermal cavity hands these parts.
FRAME FABRICATION

STEP 4.
Drill or punch holes in verticals for attaching horizontal.

Use Letter “F” (.257 Ø) Drill

EXTERIOR GLAZING

Note: Vertical at door jamb extends to floor
FRAME FABRICATION

STEP 6.

Fabricate head and sill anchor holes. Reference anchor charts for number of anchor holes and locations for each substrate. First hole is always 2” from end. Each additional fastener hole is located at required minimum spacing between fasteners based on substrate as shown in anchor charts on Pg 38-41.

**Optional HEAD**

Note: CS104T flat filler plate or CS300T-1 clips must be used for attaching FL334T to substrate.

Drill 3/4” Ø hole for 1/4” Ø fastener for CS300T-1.

**HEAD**

Drill 5/16” Ø hole for 1/4” Ø hex head fastener for FL321T.

**SILL**

Drill 5/32” Ø clear hole for attaching FL322T to FL340T subsill with AS90 (#10 x 1/2” HHTEK) fastener.
FRAME FABRICATION

STEP 7.
Fabricate wall jamb for anchor holes when required. (Reference Anchor Charts on Pg 38-41)

Note: Do not locate anchor holes at intersection of intermediate horizontal. Locate hole just above or below horizontal. Check anchor chart for spacing and quantity based on substrate.

- Fabricate wall jamb for anchor holes when required. (Reference Anchor Charts on Pg 38-41)

**Note:** CS104T flat filler plate or CS300T-1 anchor clip must be used for attaching FL334T to substrate.

**STEP 7.**

**FL321T**

C “V” Groove

Drill 5/16” Ø hole for 1/4” Ø hex head fastener. ▲

**FL334T**

C “V” Groove

Drill 3/4” Ø hole for 1/4” Ø fastener for FL334T. ▲

▲ Reference Anchor Charts or shop drawings for quantity and location based on wind load and substrate.
FRAME FABRICATION

STEP 8.

Fabricate FL340T subsill flashing for 1/4" Ø hex head structural fastener and weep holes. Hole location dimensions for fasteners in subsill are approximate. Drill 1/4" Ø weep holes as shown in Detail “A”.

SUBSILL FLASHING

1. Drill 1/4" Ø hole for hex head structural fasteners used for attaching subsill to substrate as shown.

2. Drill 1/4" Ø weep holes in locations as shown. Locate one weep hole 6" from each end and additional holes approximately 48" on center. Total weep holes should average 2 each between each vertical mullion.
FRAME ASSEMBLY - EXTERIOR GLAZING

STEP 1.

Schnee-Morehead SM5601 1/8" x 1/2" Tacky Tape.

Critical Seal: Completely fill gasket reglet with DOW 795 sealant at bottom as shown. See Detail A on Page 18.
FRAME ASSEMBLY - EXTERIOR GLAZING

STEP 2.

- 2-1/8" approx.
- Shallow glazing pockets cannot face each other.

Note:

- Attach horizontals to verticals using **AS16** (#14 x 1” HHSTS spline screws).
- **Critical Seal:** Completely fill gasket reglet with **DOW 795** sealant at bottom as shown.
- **See Page 13** for hole prep locations.

- 2" approx.

Schnee-Morehead

**SM5601** 1/8" x 1/2"

Tacky Tape.

Apply **SM5601** Tacky Tape at horizontal / vertical joints.

AS16 typical spline screw.
FRAME ASSEMBLY

Using Optional FL334T with CS300T-1 in lieu of FL331T

Tape CS300T-1 head anchors to head members at clearance hole locations. See Detail B below.

Tape head anchor to temporarily hold in place.

Align anchor hole with header access hole.
FRAME ASSEMBLY

STEP 3.

**ED340-1 End Dam**

**AS31**
(#6 x 3/8” PPH)
Screw

**SM5601**
1/8” x 1/2”
Tacky Tape

Apply **SM5601** Tacky sealant tape to **ED340-1** end dams and attach to each end of subsill with **AS31** fasteners at spline locations as shown below.

**FL340T** Subsill Flashing

**Note:** Must be used on all exterior installations

End view **ED340-1** (RH Shown) Hole locations for **AS31** are shown below and are from the side of **ED319-1** End dam

End view **ED340-1** over **FL340T**

Drill # 21 hole @ .160 4.631 as shown above
FRAME INSTALLATION

STEP 1.

Center subsill into opening allowing for a 1/4" minimum shim space at each end to ensure a good caulk joint.

Note: Prior to applying sealants, cut excess SM5601 tape back with razor knife. (Do Not Pull)

ED340-1 shall be sealed and tooled to substrate *Critical seal

Note: Apply DOW 795 sealant into “C” slot just prior to installing frame panels.

“C” Slot

FL340T Subsill

Cap seal fasteners with DOW 795 sealant.

Sealant

Shim Tightly

Shim

Shim beneath subsill to be a minimum of 1/4". Attach subsill flashing to structure with structural fasteners using attachment holes shown on Page 16. Cap seal fastener heads as shown.

Wedge shims tightly between end dams and jamb substrate on each end prior to installing frame panels. These shims prevent the end dam from dislodging while frame panels are being installed. Completely seal end dams as shown.

Run a continuous bead of DOW 795 sealant along the full length of the subsill “C” slot as shown above just prior to installing frame panels. Do not allow sealant to harden prior to installing frame panels. Remove excess sealant after panels are installed.

Note: Remove all debris from subsill to prevent clogging weep holes prior to installing panels.
PREPARATION OF DOOR FRAME

All hardware back-up plates are installed in the frame at the factory. Door stops and transom sash are cut to length in the factory. Stock transom frames are fabricated for a vertical frame size of 10’ - 5 1/2”. If your transom opening is smaller, cut the vertical members down to the appropriate length. Leave a minimum 1/4” caulk joint at the head. The fabrication for the transom head horizontal should be made using either a drill fixture or punch die set for Series FL300 framing. (See Page 13 for hole locations). Review frame anchor charts for configuration and for substrate to which the frame will be attached. Drill anchor holes into door jamb at wall and CS104 flat filler. Apply SM5601 Tacky Tape to joint intersections at door header and transom head. Assemble frame with AS16 spline screws. Use threshold clips as shown on Page 23 for attaching threshold. Install transom sash if applicable. The frame is now ready for installation.

THRESHOLD FABRICATION

Note: See *Entrances and Frames Installation Instructions* for detailed instructions.

Threshold For Door Pair. (Butt Hung Shown, Offset Pivot Similar.)
FRAME INSTALLATION

INSTALLATION OF DOOR FRAME

1. Door frame and threshold shall be completely assembled with joints neatly aligned and tight.
2. Door frame shall be installed square and plumb. Measure frame diagonally from corner to corner and shim until the measurements are equal.
3. Level door frame threshold. The door frame is designed to have the jambs extend to floor.
4. Install fasteners through frame and threshold anchor holes and securely anchor to the substrate. Position shims between framing and substrate to prevent members from bowing.
5. Install door stops.
6. You are now ready to install the door.

Note:
See Entrances and Frames Installation Instructions for more detailed instructions.

Note: TH403 Threshold Clip used for 3-point lock

Attachment Holes For Threshold Clips

Note: Door jamb rests on floor

TH400 Threshold Clip shown
Where entrance doors occur, install entrance door frames first. Subsill butts against door jamb. The subsill abutting the door jamb does not require an end dam.

**Note:** Subsill perimeter sealant is applied after frame panels have been installed and anchored.

**Caution:** Be careful not to seal over weep hole.
STEP 1. Locate splice sleeves near center of D.L.O. at panel positioned over splice.

A minimum 1/2" expansion joint is required every 24 ft. Reference formula on Page 37.

To avoid a three side adhesion, apply bond breaker tape to outside of sleeve before installation.
FRAME INSTALLATION

STEP 2.

Screw spline joinery allows for frames to be shop fabricated into panels and shipped to job site assembled. Each panel must have at least one vertical deep pocket for glazing. Arrange panels so that two shallow pockets never face each other. Reference Page 12 (FRAME ASSEMBLY).

Expansion mullions should be used in elevations exceeding 24'-0" in width to allow for thermal movement. See Page 31 for formula.
FRAME INSTALLATION

STEP 3.

After all panels are installed and frame panels are attached to substrate at head, then attach sill to subsill with AS90 6" on each side of vertical mullions in location shown below.

Apply DOW 795 sealant into anchor hole prior to anchoring.

CAP SEAL

Apply DOW 795 sealant full length of FL340T.

Note: Do not penetrate upright leg of subsill flashing with fastener.

Fill space full length with DOW 795 sealant - Critical Seal.

AS90 (#10 x 1/2" HWH TEK) fastener 6" on each side of vertical mullion

Sealant not required

1/4" Ø structural fastener

1/4" Ø fastener

Optional

HEAD

FL334T

CS300T-1 anchor clip

Sealant not required

HEAD

FL321T

FL322T

FL340T

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STEP 4.

In high velocity wind zone areas and/or high spans, it may be necessary to attach jamb to substrate as shown to limit deflection. When required, match drill holes in jamb to substrate. Anchor and shim as required. Cap seal fastener heads with **DOW 795** sealant.

When all frames are secured to the opening, then completely seal exterior and interior perimeter with a continuous bead of **DOW 795** sealant. Completely seal exterior cavity in FL340T full length of sill as shown below.

1. All internal and external sealants to be **DOW 795**.
FRAME INSTALLATION

90° CORNER

1. Install the mitered subsill FL340 on one side of the corner, test fit other side to confirm corner miter fits as desired. Anchor this part to the substrate seal open cavities with DOW 795 to the substrate and tool same, install the other half in the same manner anchor to substrate and seal to existing half of this corner, fill any and all cavities with sealant and tool. Cap seal all exposed fasteners and tool. Reference figure “A”.

2. Apply sealant to the back edge of the FL340 as shown page 21 and install the first corner panel (shown RH panel) in Figure “B”

3. Repeat this application for the LH panel as shown in figure “B”

4. Use quick clamps or a block of wood and dead blow hammer to get corners snapped together

5. Once corner is snapped together anchor both left and right panels to the FL340 with AS90 fasteners as shown on page 27

Pin Subsill Near Corner and Cap Seal Fasteners. (Reference Page 14)

Seal miter joint with sealant.

FL340T Subsill

GLAZING OF HALF CORNER POST

FL340T Subsill

FL351T

FL353T

Fig. A.

Fig. B.
FRAME INSTALLATION

135° INSIDE / OUTSIDE CORNERS

FL313T
Deep Pocket Snap Filler

CS135T
135°/45° Corner
Detail A

BREAK METAL ANGLE CORNERS

Fill interior cavity between plate and subsill with DOW 795 sealant.

FL311T
Female Half Expansion Mullion

Critical Seal! Fill interior cavity of FL311T with DOW 795 sealant prior to inserting aluminum brake metal filler plates at interior and exterior. Once installed, be sure to clean and tool excess sealant.
GLASS SIZE FORMULAS

Glass Sizes for **FL300T** System:

Glass Width and Height = D.L.O. + 7/8"

**FL300T** Door Frames with surface mounted closers
Transom parts **FL307T** Transom bar and **FL314T** Header
Width: door opening width - 1 1/8"
Height: daylite opening + 7/8"

**FL300T** Door Frames with concealed closers
Transom parts **FL312** Transom bar and **FL314T** Header
Width: door opening width - 1 1/8" (**CS115/FL518** will be on both vertical sides)
Height: daylite opening (taken from top of sash **CS115** to bottom of **FL314T**) - 1/8"

Note: Glass tolerances are not addressed in the above formula. Consult glass manufacturer for glass tolerances prior to ordering.
PREPARATION OF FRAME OPENING FOR GLASS

1. Prepare the frame opening by removing all dirt and debris from the glazing pockets and gasket reglets.

2. Install interior gasket as shown on page 32.

3. SETTING BLOCKS
   Glass should be set on two identical setting blocks having a Shore A Durometer of 85 + or -5. The preferred location is at the 1/4 points.

   If the 1/4 point location causes excessive deflection of the intermediate horizontal, move the setting blocks equally towards the corners of the lite as far as the 1/8 points. The outer end of the block CANNOT be closer than 6” to the corner of the glass.

4. DEFLECTION
   The intermediate horizontal must not exceed 1/8” and a door header is limited to 1/16”. Check dead load charts for proper setting block locations.
1. Cut gaskets a minimum of 3/16” longer per foot than aluminum extrusion.

2. Do not stretch gasket to make them fit.

It is very important that gaskets are installed correctly as shown in Detail “A”, to prevent shrinkage at corners.

3. Pull gaskets back 2” in both directions at corner intersections & seal with DOW 795 silicone sealant. This should be done on interior & exterior for best performance.
**EXTERIOR GLAZING**

**GLASS SIZES**

GLASS SIZE = DAYLIGHT OPENING + 7/8”
Consult glass manufacturer for glass tolerance before ordering glass.
* (See door frame instructions for glass size at transom.)

1. Install interior gasket. Vertical gaskets run through. **Reference Page 32.**
2. Set glass in place following the four step procedure shown above. Center glass in the opening, making sure proper glass penetration is achieved. Rest glass on setting blocks.
3. Press glass against installed gaskets and snap-in **FL303 Glass Stop** as shown below.
4. Install **NG1 exterior gaskets** as shown on **Page 32.** Make sure glass has been pushed back against the interior gaskets, if gaskets are hard to push in use a diluted mixture of window cleaner spray the cavity and gasket with same use a vinyl roller to push gasket in and smooth out.

Glaze from bottom to top. Install **WD300-1 Water Diverter** as shown before setting upper lite.

**WD300-1 Water Diverter** is embedded in sealant at each end of horizontal.
DOOR PREPARATION AND GLAZING

Door glass stops and gaskets are shipped loose.

1. Install SB1 Side blocks as shown below. (RH door shown, LH door will be opposite.)
2. Install DG100 or DG101 glass stops on interior side of door.
3. Center glass in opening on setting blocks and align with side blocks.
4. Once the glass is in the correct position, lightly screw the glass adjustment screw down with SP101 plastic tip attached to the top of the glass.
5. Install horizontal door glass stops.
6. Square door using adjustment screw located in top rail of door as required.

NOTE: If 7/8" glass is being glazed into door, install SP102 plastic tip over SP101.

DG100 Glass Stop with bulb gasket and 1/4" glass
Use DG101 Glass Stop for 7/8" insulating glass.
SPECIAL CONDITIONS
TRANSITION GLAZING

FL303
FL326T

FL303
CS107

See Detail A

1/4” Weep Hole

Detail A

CS107
CS108
CS109

1-3/8”

7/8”

3/4”

5/8”
SPECIAL CONDITIONS
EXPANSION MULLIONS

Calculated gap is determined by job conditions, project specifications, and temperature at the time of installation. Expansions mullions allow for 3/8” maximum movement.

**EXPANSION GAP SIZE FORMULA**

\[ \text{Length (“”) x } F^{\circ} \text{ difference x .0000129} \]

L = Length in inches, between center line of expansion mullion in elevation.

\[ F^{\circ} = \text{Specified Temperature Variation} \]

\[ .0000129 = \text{Thermal Coefficient for Aluminum} \]

**FOR EXAMPLE:**

Assume 100° temperature variation specified and temperature at job site on day of installation is 60°

1. \( 100^\circ - 60^\circ = 40^\circ \) temperature difference

2. Length of elevation between expansion mullions equals 20’- 0” or 240”

3. \( 240” \times .0000129 \times 40^\circ = .124” \) Therefore, set expansion mullion gap at .124” or 1/8”.

Calculated Gap (See Example Below)
NOTE: Charts shown are for reference only.
NOTE:
Charts shown are for reference only.
Another position provided in shop drawings and/or product.
NOTE: Charts shown are for reference only.

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Anchor locations provided in shop drawings and/or product approvals shall supersede than below.

FL3OOT - Storefront

FL3OOT - Storefront

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NOTE:

Charts shown are for reference only.

Anchor locations provided in shop drawings and/or product approvals shall supersede than below.