

TCR-250 WINDOW WALL INSTALLATION AND GLAZING MANUAL

Note: Installation and Glazing Manuals are product specific. FOR REVIEW ONLY!

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Quick Reference Guide

1. Cut lengths taken from D.L.O. dimensions are measured from the inside of the mullions. Face members are slightly more narrow to provide a good joint seal. SEE PAGE 5

2. End reaction limitations: 4-1/2" System - 600 lbs without reinforcing sleeve - 875 lbs with sleeve. SEE PAGE 9

3. Outside 90 Corner options: 4-1/2" System - Head & Sill Run Thru- 6" System - Corner Mullions run thru.

GENERAL INFORMATION

PRODUCT USE

The TCR-250 window wall system is intended for installation by glazing professionals with appropriate experience. Subcontractors without experience should employ a qualified person to provide field instruction and project management.

Oldcastle BuildingEnvelope[®] does not control the application or selection of its product configurations, sealant or glazing material and assumes no responsibility thereof. It is the responsibility of the owner, architect and installer to make these selections in strict compliance with applicable laws and building codes.

Consult sealant manufacturer for review and recommendation of sealant application. Follow sealant manufacturer's recommendations and literature for proper installation.

The air and water performance of the **TCR-250** window wall system is directly related to the completeness and integrity of the installation process both the seal installed at the shear blocks and mullion joinery and the glazing gasket installed at the interior side of the glass. To insure top performance for this system, particular attention should be given the following procedures:

- Surfaces to be sealed should be cleaned with isopropyl alcohol or solvent and dried as recommended by sealant manufacturer to remove all dirt and cutting oils. Sealant at shear blocks should be a minimum 3/16" diameter nominal placed completely around the top, face and bottom of the shear block without gaps in the sealant. Exposed surfaces should be cleaned after installing the horizontal. Inspect joint for complete sealant contact, especially where the horizontal meets the face of the vertical member. Repair joint as required.
- 2. The interior glazing gasket should be installed so as to avoid stretching, buckles or tears. Corners must be cut square, sealed and butted together. To avoid damage to gasket and corner joints during glazing, glass should be level and straight during installation.

Variations on the details shown are inevitable and are not the responsibility of Oldcastle BuildingEnvelope[®] when drawn by others. Oldcastle BuildingEnvelope[®] strongly encourages its customers to use its Engineering department for calculations and shop drawings.

For Structural Silicone Glazing applications, the stress on the silicone should not exceed 20 PSI. Consult sealant manufacturer for specific applications to ensure proper loading on silicone joint. Alternate spacer gaskets are available to accommodate larger sealant contact widths. Consult your nearest Oldcastle BuildingEnvelope[®] facility for assistance.

Consult glass manufacturer for correct setting block location and length for glass sizes in excess of 40 sq.ft.

GENERAL INFORMATION

PROTECTION AND STORAGE

Handle all material carefully. Do not drop from the truck. Stack with adequate separation so the material will not rub together. Store material off the ground, protecting against the elements and other construction hazards by using a well ventilated covering. Remove material from package if wet or located in a damp area. For further guidelines consult AAMA publication "Care and Handling of Architectural Aluminum From Shop to Site."

CHECK MATERIAL

Check glass dimensions for overall size as well as thickness. Oldcastle BuildingEnvelope[®] cannot be held responsible for gaskets that are not water tight due to extreme glass tolerances. The TCR-250 window wall system is designed to accommodate glass or panels measuring 1" in thickness. (+/- 1/32")

Check all material upon arrival at job site for quality and to determine any shipping damage.

Using the contract documents, completely check the surrounding conditions that will receive your materials. Notify the general contractor by letter of any discrepancies before proceeding with the work. Failure to do so constitutes acceptance of work by other trades.

Check shop drawings, installation instructions, architectural drawings and shipping lists to become familiar with the project. The shop drawings take precedence and include specific details for the project. The installation instructions are of a general nature and cover the most common conditions. Due to varying job conditions all sealant used must be approved by the sealant manufacturer to insure it will perform per the conditions shown on the instructions and shop drawings. The sealant must be compatible with all surfaces in which adhesion is required, including other sealant surfaces. Use primers where directed by sealant manufacturer. Properly store sealant at the recommended temperatures and check sealant for remainder of shelf life before using.

FIELD CONDITIONS

All material to be installed must be plumb, level and true. Aluminum to be placed in direct contact with masonry or incompatible material should be isolated with a heavy coat of zinc chromate, bituminous paint or non-metallic material.

After sealant is set and a representative amount of the wall has been glazed (250 square feet or more), run a water hose test in accordance with AAMA 501.2 specifications to check installation. On large projects the hose test should be repeated during the glazing operation.

CLEANING MATERIALS

Cement, plaster terrazzo, alkaline and acid based materials used to clean masonry are very harmful to finishes. Any residue should be removed with water and mild soap immediately or permanent staining will occur. A spot test is recommended before any cleaning agent is used. Refer to the **Architectural Finish Guide** in the Detail Catalog.

GENERAL INFORMATION

EXPANSION JOINTS

Expansion joints and perimeter joints shown in these instructions and in the shop drawings are shown at nominal size. Actual dimensions may vary due to perimeter conditions and/or differences in metal temperature between the time of fabrication and the time of installation. For example, a 12 foot unrestrained length of aluminum can expand or contract 3/32" over a temperature change of 50° F. Any movement potential should be accounted for at the time of the installation.

SUGGESTIONS FOR IMPROVING SYSTEM THERMAL PERFORMANCE

To maintain or improve your wall installation the following items should be considered.

- A. Blinds or drapes prevent warm air from adequately flowing over the window surface.
- B. Warm air ventilators too far from the window will not adequately wash the window with air to prevent condensation.
- C. In extreme conditions the fan of the heating system should not cycle on and off, but should run continuously.
- D. Some heating systems have a water injection feature that can raise humidity levels. The higher the humidity levels the more likely condensation or frost will form. Raising the temperature and reducing humidity will usually solve the problem.
- E. On rare occasions an extremely cold storm may cause frost to appear on the glass framing. A space heater and electric fan blowing along the plane of the window wall can reduce or eliminate this temporary condition.

FRAME CONFIGURATIONS

The frames shown below are representative of typical frame configurations that are covered in these instructions. Contact your local Oldcastle BuildingEnvelope[®] facility for custom configurations involving non-standard installation methods.

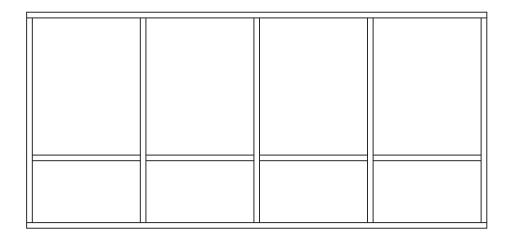


Figure 1 Standard Punched Opening

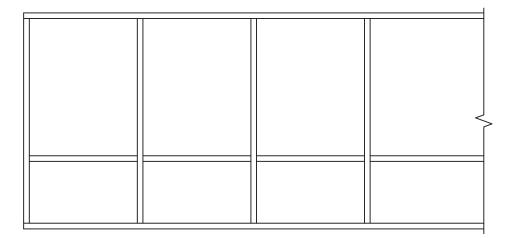


Figure 2 Extended Frame (Width > 24'-0")

FRAME FABRICATION

NOTE : Structural silicone glazed vertical mullion is referred to as "SSG mullion"

1.1 Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions. Allow 1/2" minimum clearance for shimming and caulking around perimeter of frame.

1.2 Cut material to size. **SEE FIGURE 3 PAGE 6** for guide. **Erame Members**

Frame members	
Sill Anchor	FRAME WIDTH minus 1/2" (splice if greater than 24'-0")
Head and Sill (<24'-0")	FRAME WIDTH
Head and Sill (>24'-0")	Refer to FRAME SPLICING, page 14
Head and Sill Face Covers	See 'Head and Sill' for cut length
Verticals and Jambs	FRAME HEIGHT minus 3 13/16" (see FIG. 5, p.5 for notching)
Intermediate Horizontals	Daylight Opening (D.L.O.) minus 1/16"
Glass Stops	D.L.O. minus 1/32"
Horizontal Face Covers	D.L.O.
Horizontal Face Covers @ SSG	Bay Width (see FIGURE 3)

*NOTE: D.L.O. IS MEASURED AT INTERIOR OF MULLIONS.

Accessories

Glazing gaskets	
Verticals	D.L.O. plus 1" plus allowance*
Horizontals	D.L.O. plus allowance* (run between vertical gaskets)
Silicone spacer gaskets	D.L.O. plus 1" plus allowance*
*Glazing gaskets should be cut 1/4" longe	r per foot. Set aside and lay flat until ready to glaze.

- 1.3 Fabricate head and sill members for vertical and jamb attachment. SEE FIGURE4, page 7.
- 1.4 Fabricate vertical mullions for intermediate horizontal members. Notch tops of all verticals and jambs for head member. **SEE FIGURE 5**, page 8.
- 1.5 Fabricate intermediate horizontals for shear block fasteners. **SEE FIGURE 6**, **page 9**.
- 1.6 Drill 1/4" diameter weep holes in horizontal and sill members at 1/4 points. Install HP-1004 baffles as required, securing with a drop of silicone if needed. If frame is to accommodate incidental water, drill (1) 1/4" diameter weep hole at centerline of lite in head member and install a baffle. SEE FIGURE 7, page 9.
- 1.7 Drill one 1/4" diameter weep hole at the bottom center of each light of glass at head, sill and horizontal face covers. **NOTE: For SSG applications, there will be multiple holes per face cover**.

FRAME FABRICATION

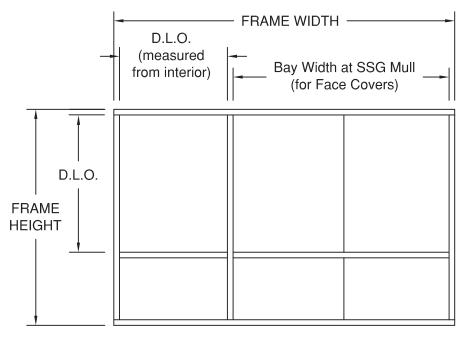
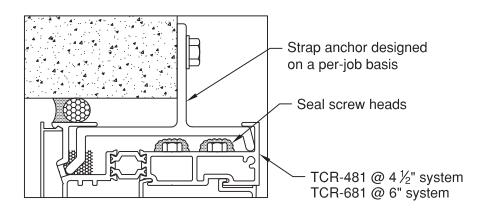


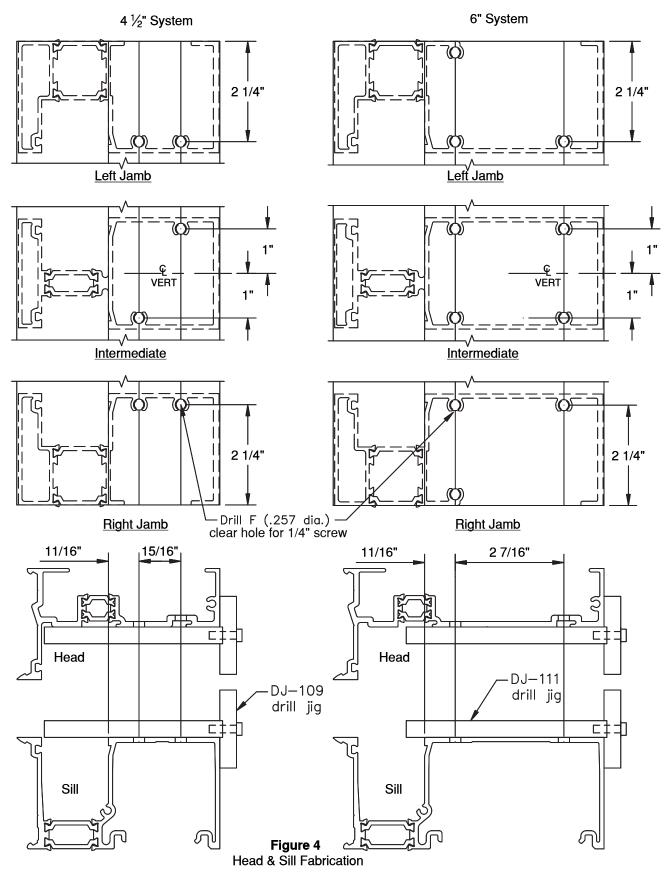
FIGURE 3 Material Fabrication Guide

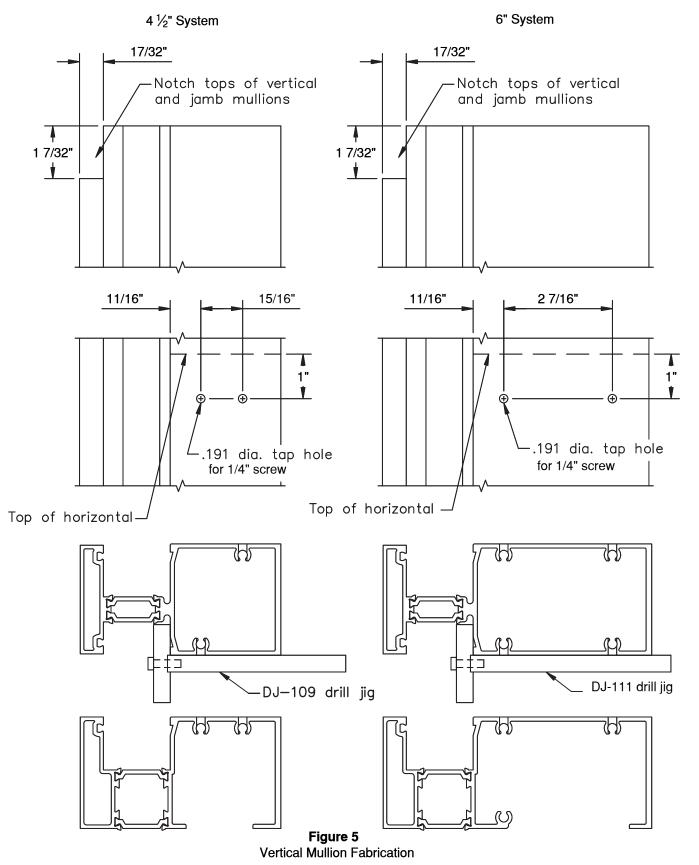
1.8 If "C" shaped head anchor is used, drill access holes in head member for anchor. See approved shop drawings for location and quantity. Note: Head anchors are pre-loaded into frame and secured to the building condition after frame is set in place. "C" SHAPED HEAD ANCHOR SHOULD NOT BE USED WHEN USING INCIDENTAL WATER HEAD. Consult your nearest Oldcastle BuildingEnvelope[®] facility for anchoring options at these conditions. SEE DETAIL BELOW.



Anchor at Incidental Water Application

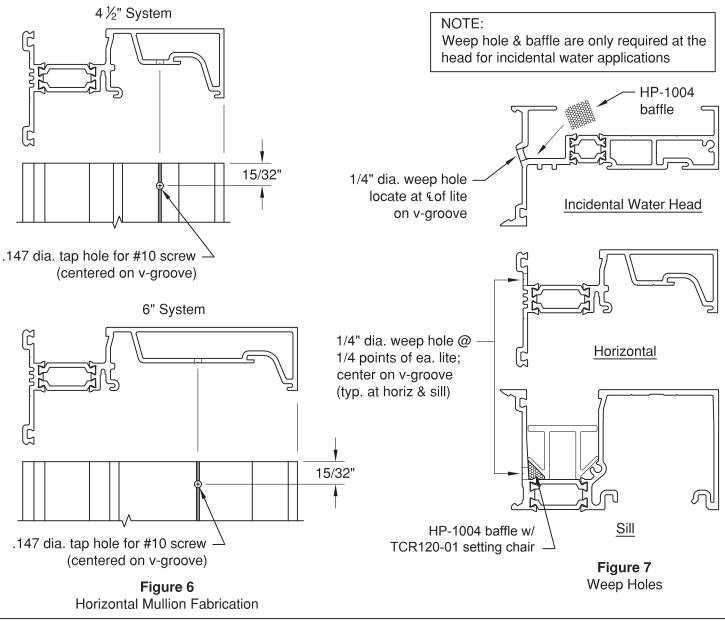
FRAME FABRICATION





FRAME FABRICATION

FRAME FABRICATION



FRAME ASSEMBLY

Prior to applying sealant to any frame member, the aluminum must be cleaned. Consult sealant manufacturer for cleaning recommendations.

2.1 If frame has horizontal mullions, attach shear blocks to jambs and verticals with (2) FS-9, 1/4-14 x 1 1/2" Hex Head screws.

If frame is to accommodate incidental water at the head, slide strap anchors into the head member prior to setting the frame in the opening.

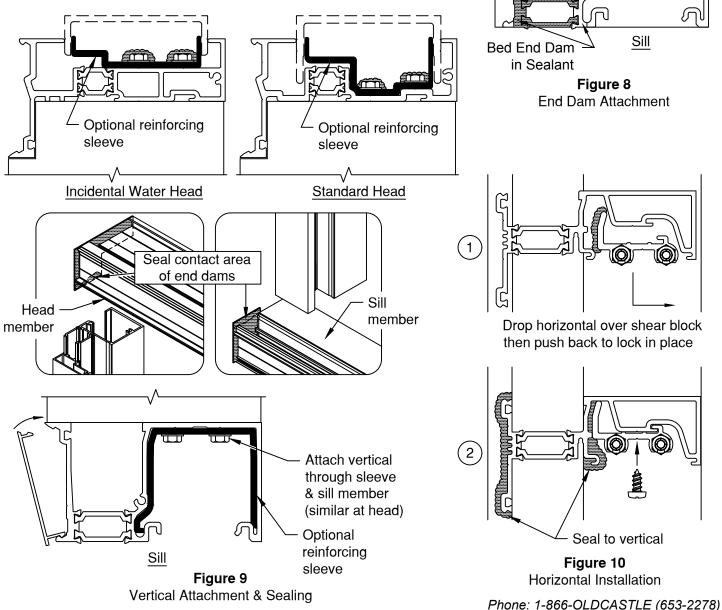
2.2 If end reactions exceed 700 lbs. (4 $\frac{1}{2}$ " and 6" systems) a reinforcing sleeve must be inserted in the head & sill member at each vertical location. Attach with vertical assembly screws. **SEE FIGURE 9**. **Note: Max end reaction at head & sill with reinforcing sleeves is 900 lbs. (4 \frac{1}{2}" and 6" systems).**

FRAME ASSEMBLY

- 2.3 Attach PVC end dams to each end of head and sill member with (2) FS-320 #10 U-drive. Bed end dams in sealant and seal as shown on FIGURE 8. Cap seal FS-320 drive screws.
- 2.4 Apply face covers to head and sill members. Install by setting long leg into head or sill snap then rotate towards short cap leg to snap in place. See FIGURE 9.
- 2.5 Seal top & bottom of verticals prior to attaching to head and sill. At jambs, seal end dam area that will contact the jambs. Attach to head & sill with (2) FS-9 1/4-14 x 1 $\frac{1}{2}$ " HH screws. DO NOT OVER TORQUE SCREWS. Seal screws at head members. **SEE FIGURE 9**.
- 2.6 NOTE: Horizontals can be attached before or after frame is installed. If installed prior and shipped to jobsite, care must be taken not to disturb seals in transit. Prior to attaching intermediate horizontals, apply sealant to face of shear blocks. Roll the horizontal over the shear blocks & attach with (1) FS-55 #10 x $\frac{1}{2}$ " Phillips RH screw. Seal ends of horizontal. **SEE FIGURE 10**.

Bed End Dam in SealantImage: Colspan="2">Image: Colspan="2" Image: Colspan="2" Im

Web: www.obe.com



November 2021

FRAME INSTALLATION

Unless noted otherwise, these instructions describe installation of frames using the standard "C" shaped head anchor.

- 3.1 Shim continuous sill anchor off floor. Anchor must be level. SEE FIGURE 11 for shim placement. Ends of sill anchor should be equal distance from wall on either side of opening. Refer to approved shop drawings for anchor size and placement. NOTE: Front of sill anchor is 2 $\frac{3}{8}$ " behind rear edge of wall at 4 $\frac{1}{2}$ " system; 3 $\frac{7}{8}$ " at 6" system.
- 3.2 Prior to setting frame, tape head anchor pieces above access hole locations in head. Place frame onto sill anchor & tilt into opening plumb, square & level. Check caulk joints to insure uniformity. Anchor head through access holes per approved shop drawings. <u>NOTE: FOR OPTIMAL PERFORMANCE</u> <u>OF HEAD ANCHOR, DIE LINES MUST BE</u> <u>VISIBLE ON THE ANCHOR AT THE TOP</u> <u>OF THE FRAME</u>. **SEE FIGURE 12**. Seal over access hole on the inside.

If horizontals & zone plugs were pre-installed in the shop, check these seals before proceeding to insure they are intact. Repair as necessary. Skip to step 3.4.

3.3 Install & seal zone plugs at captured verticals as shown in **FIGURE 13**. Tool sealant into space between zone plug & vertical & horizontal. Where there are SSG verticals, install & seal bridges. **SEE FIGURE 14 PAGE 12**.

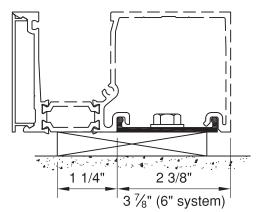
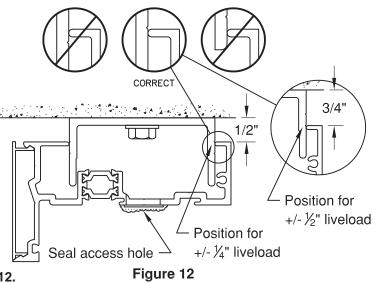
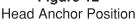
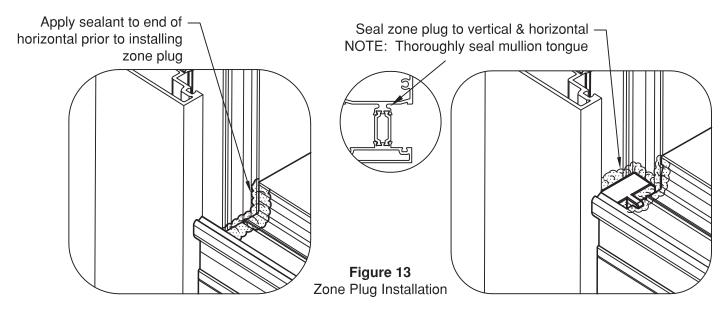


Figure 11 Shim Placement at Sill Anchor

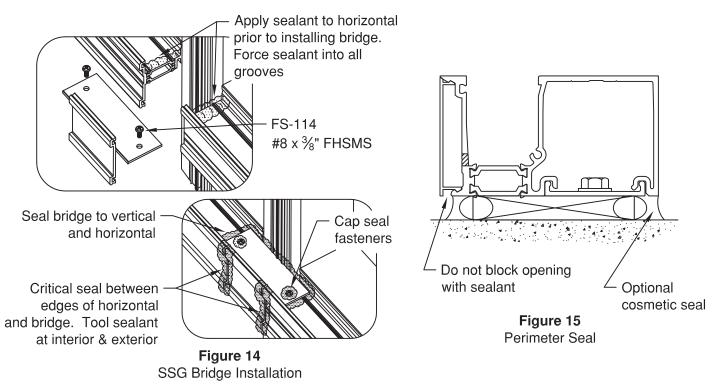




3.4 Seal perimeter of frame. Care must be taken to marry seals at the corners of the frame. Interior seals are not required for system performance, but may be necessary for cosmetic purposes. SEE FIGURE 15 PAGE 12.



FRAME INSTALLATION



GLAZING

Start glazing the frame at the bottom and work up.

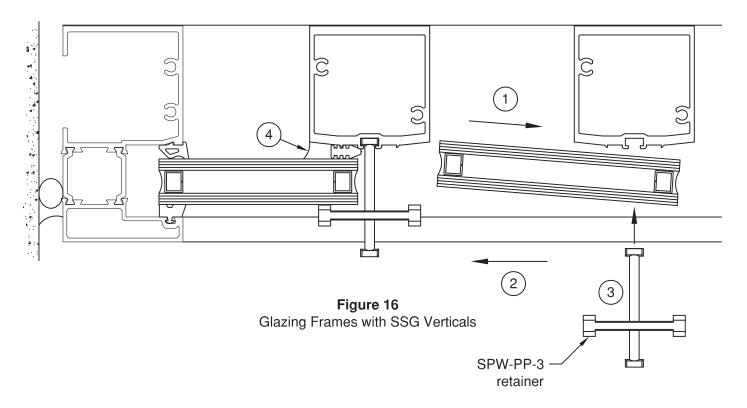
GLASS SIZE CALCULATION: D.L.O. + 1" for WIDTH and HEIGHT at CAPTURED MULLIONS (including corners) D.L.O. + 2" for WIDTH at SSG VERTICALS

4.1 Note: To avoid silicone curing before glass is set in place, and contamination from job-site debris, glazing prep must be done as each opening is glazed. Do not pre-seal the gaskets in the entire frame; install and seal gaskets as you are ready to set glass in each opening. Install exterior gaskets. Glazing gaskets at verticals run through; horizontal gaskets butt into vertical gaskets. Gaskets at head and sill members run through. Crowd the gaskets into corners, cutting the horizontal gasket at an angle to match bevel on adjoining gaskets. Seal joint between the corners of the gaskets just prior to glazing.

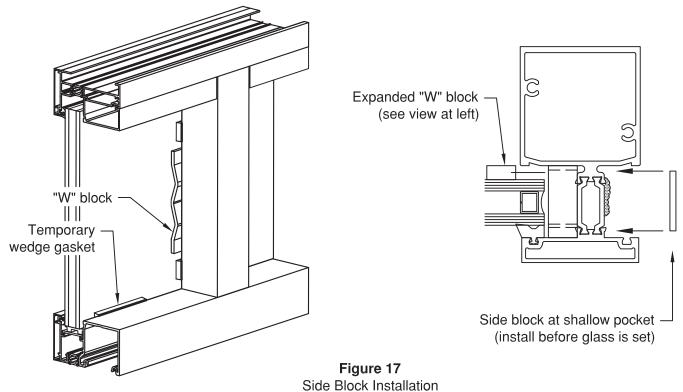
<u>NOTE</u>: Sealant is not required at the horizontal gasket abutting an SSG mullion. This gap will be sealed during structural silicone application.

- 4.2 Position setting blocks at correct location (two per lite). Refer to approved shop drawings or dead load charts. Lubricating the top of the setting block will help insure proper setting of glass. Note: Consult glass manufacturer for correct setting block location and length for glass sizes exceeding 40 sq.ft.
- 4.3 Set glass in opening. Ensure that glass bite is equal on all sides. For frames with SSG verticals, glass can be set from the interior. SEE FIGURE 16, page 13 for glazing sequence. <u>CAUTION</u>: Be certain that glass is placed firmly against exterior gasket to ensure a proper seal and to avoid binding of the glass on the setting block.
- 4.4 Install glass stops and run interior wedge gasket, crowding into the corners. Seal corners of wedge gasket at the bottom of each lite after all gaskets have been installed on the lite.

GLAZING



- 4.5 Install side blocks in vertical mullions as required. **SEE FIGURE 17**. Consult glass manufacturer for preferred location in seismic areas. **Note: Side blocks are not required at SSG mullions.**
- 4.6 Repeat steps 4.1 through 4.5 until all glass is set, working row by row up the elevation.



FRAME SPLICING

When the FRAME WIDTH exceeds 24'-0", the head and sill members must be spliced. Locate splice joints at or near mid-lite. Splice sill anchors 12" from the frame splice. Head and sill members should be cut to allow for a $\frac{1}{2}$ " splice joint between each frame section. Sill anchors can be butted together. Locate an anchor bolt 3" from each side of the sill anchor joint. Locate a head anchor at the head splice joint.

A.1 Prior to setting frames in place, apply a non-hardening, non-skinning sealant to both sides of the splice joint at the head and sill members.

A.2 Place splice sleeves in head and sill of first frame section. Pin in place with FS-114 #8 x $\frac{3}{8}$ " Phillips pan head screw (seal head). **SEE FIGURE 18**. Slide the next frame section over the splice sleeves to achieve a 1/2" joint.

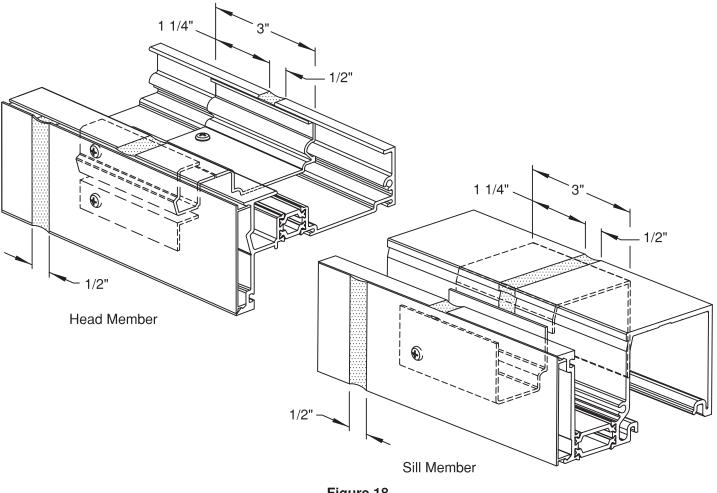


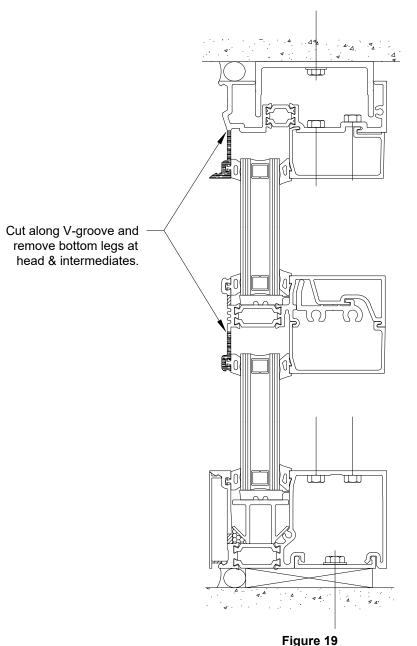
Figure 18 Head & Sill Member Splicing

- A.3 Offset head and sill face cover splice joints 3" from main member splices. Set joint at face covers at $\frac{1}{2}$ " and seal as necessary.
- A.4 Follow instructions for shimming and anchoring the frame.
- A.5. Seal over gap at splice joint.

REGLAZING FROM EXTERIOR

NOTE: These instructions cover the replacement of glass below an intermediate horizontal. The same procedures can be used if a lite must be reglazed at a head member.

- B.1 Remove face cover from member above affected lite (i.e., horizontal or head).
- B.2 Remove lite of glass and all glazing gaskets from opening to be reglazed.
- B.3 The bottom glazing leg of the horizontal member above removed lite must be cut away. Carefully cut along the V-groove at the face of leg. **SEE FIGURE 19.**



Reglazing Procedure

- B.4 Clean pocket of debris, dirt and oils. Apply reglazing sponge gasket with pre-applied adhesive backing to interior of pocket. Crowd gasket into corners to prevent gaps and seal gasket intersections thoroughly.
- B.5 Glaze new lite, ensuring that setting chair and setting block are properly located. Care must be taken during glazing to avoid disturbing or damaging interior sponge gaskets. Hold glass in place temporarily with short pieces of wedge gasket at sides of lite.
- B.6 Run continuous bead of sealant along the face of the horizontal, then screw apply the reglaze leg with FS-19 #10 x 5/8" HWH Self Drilling Fastener at 12" O.C. and 1-1/2" from ends. Cap seal fasteners. SEE FIGURE 20.
- B.7 Install wedge gasket around exterior of lite and replace horizontal face covers to complete reglazing procedure.

REGLAZING FROM THE EXTERIOR

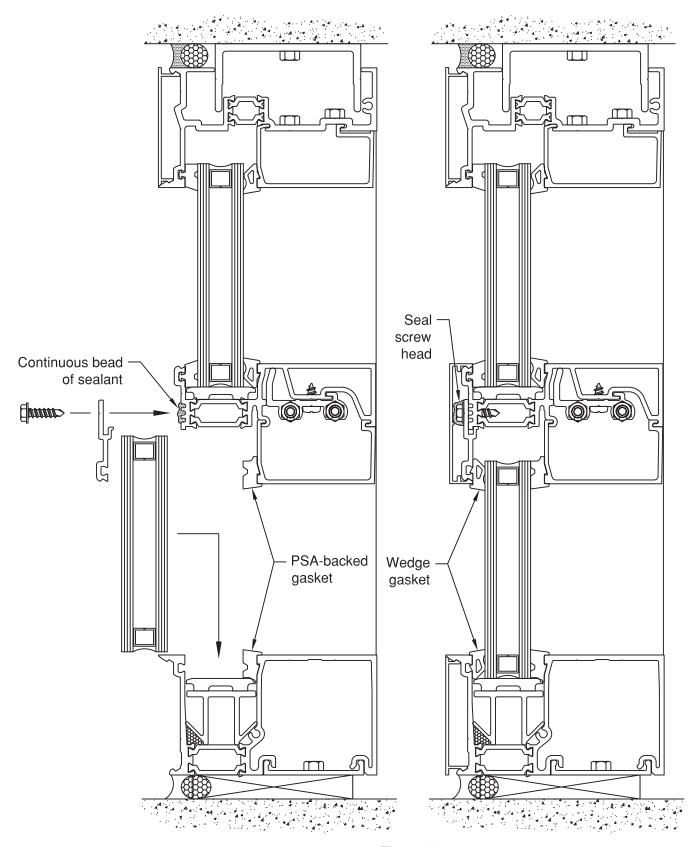
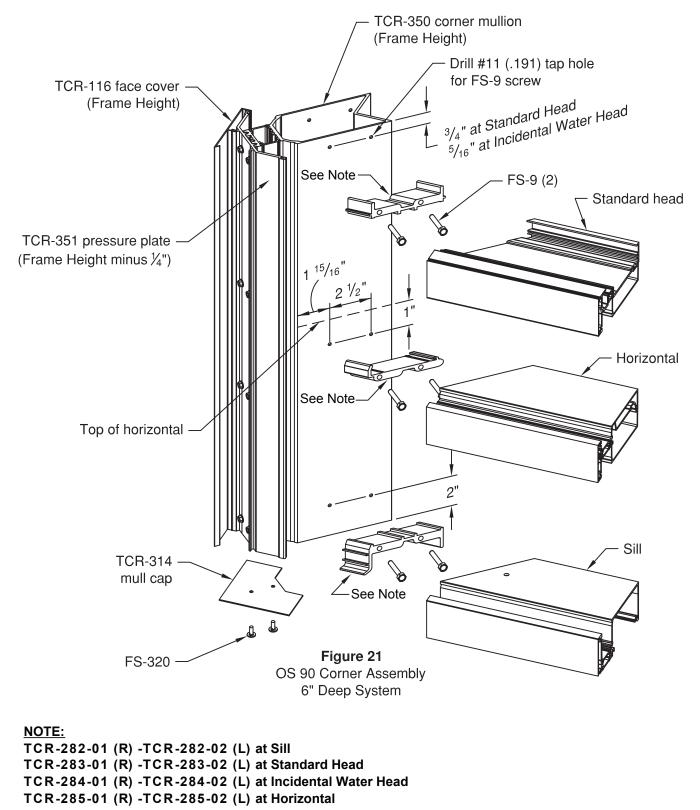


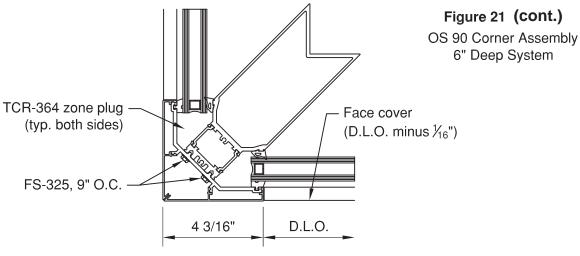
Figure 20 Exterior Reglazing

OUTSIDE 90° CORNER ASSEMBLY for 6" SYSTEM

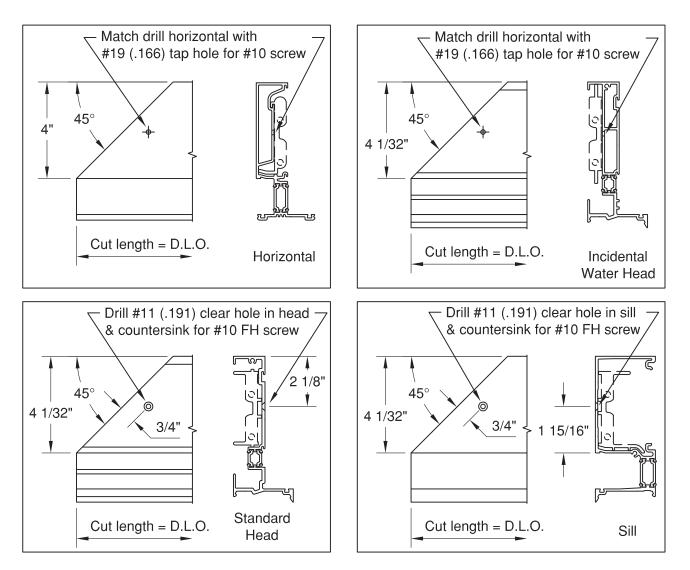
FIGURE 21 shows the basic layout of the standard one-piece corner mullion assemblies for 6" system depths. These details are for general reference and do not necessarily reflect all conditions. For specific assembly, sealing and anchoring notes, refer to approved shop drawings.



OUTSIDE 90° CORNER ASSEMBLY for 6" SYSTEM (CONT.)



OS 90 Corner Assembly Guide (See details below for fabrication notes)



OUTSIDE 90° CORNER ASSEMBLY for 4 1/2" SYSTEM

FIGURE 22 shows the basic layout of the standard one-piece corner mullion assemblies for both the 4 ½" and 6" system depths. These details are for general reference and do not necessarily reflect all conditions. For specific assembly, sealing and anchoring notes, refer to approved shop drawings.

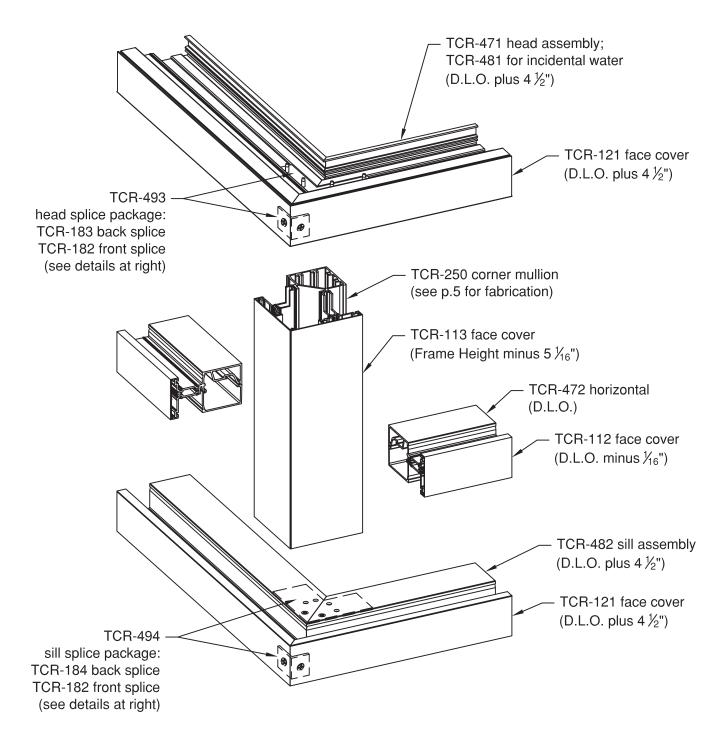
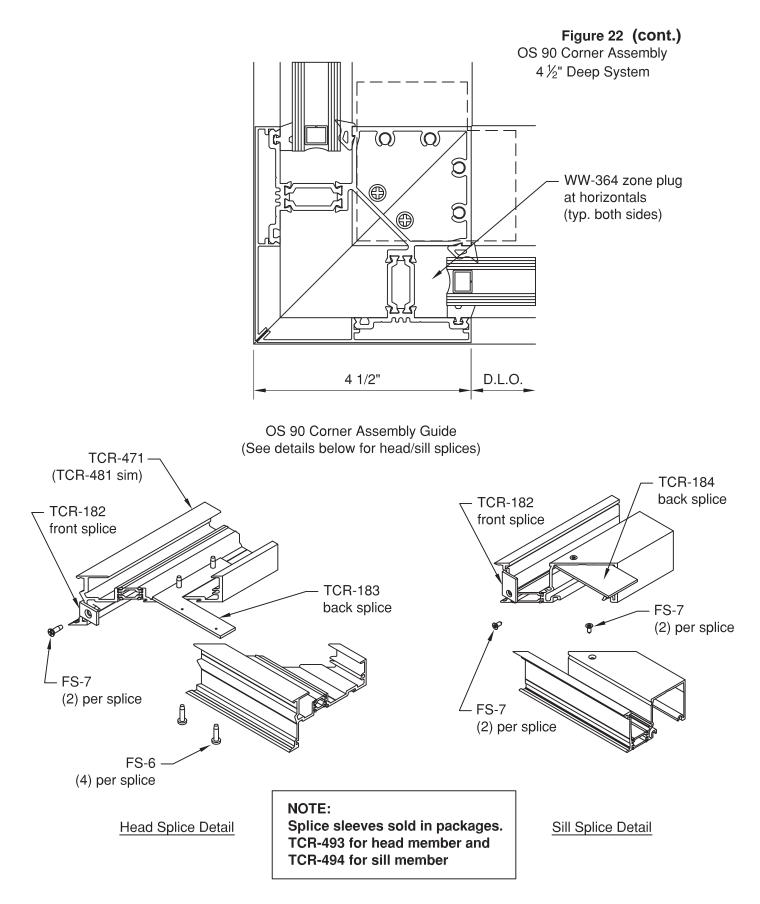


Figure 22 OS 90 Corner Assembly 4 ½" Deep System

OUTSIDE 90° CORNER ASSEMBLY for 4 1/2" SYSTEM (CONT.)



PARTS LIST

(parts not shown to scale)

4-1/2" System Extrusions		
ع TCR-102	Sill Anchor	
المراجع (1994) TCR-250	90° Outside Corner Mullion	
 	Glass Stop at Intermediate Horizontal	
TCR-453	Jamb Mullion	
TCR-454	SSG Mullion	
TCR-471	Head	
TCR-472	Intermediate Horizontal	
 	Glass Stop at Head	
[]= TCR-480	Typical Vertical Mullion	
TCR-481	Optional Head for Incidental Water	
] TCR-482	Sill	

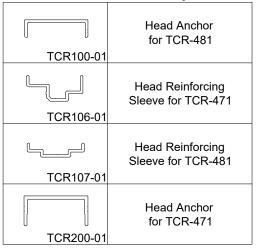
6" System Extrusio	ns
<u>()</u>	Sill Anchor
TCR-103	90° Outside Corner Mullion
** TCR-351	90° Outside Corner Pressure Plate
 TCR-613	Glass Stop at Intermediate Horizontal
TCR-653	Jamb Mullion
الم الم TCR-654	SSG Mullion
TCR-671	Head
TCR-672	Intermediate Horizontal
TCR-673	Glass Stop at Head
[□ [[™] , [™]] TCR-680	Typical Vertical Mullion
TCR-681	Optional Head for Incidental Water
TCR-682	Sill

PARTS LIST

(parts not shown to scale)

Common Extrusion	S
<u>گ</u>	Horizontal Face
TCR-112	Cap
یے ا	90° Outside Corner Face Cap
<u>1</u> R	Head & Sill Face
TCR-121	Cap
<u></u>	Reglaze Leg at
TCR-132	Horizontal
کـــر	Reglaze Leg at
TCR-133	Head
	Thermal Door Stop
چې FG-2145	Typical Door Stop

Parts and Accessories - 4-1/2" System	" Svstem
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ries - 4-1/2" System (cont.
Sill Reinforcing Sleeve for TCR-482
Typical Shear Block
PVC End Dam for Head & Sill
Splice Package for TCR-471 Head
Splice Package for TCR-481 Head
Splice Package for TCR-482 Sill
Clip Package for 90° Outside Corner at Head
Clip Package for 90° Outside Corner at Sill
Drill Jig for 4-1/2" System

Parts and Accessories - 4-1/2" System (cont.)

Parts and Accessories - 6" System

	Sill Reinforcing Sleeve for TCR-682
TCR114-01	
[]	Head Anchor for TCR-681
TCR160-01	

PARTS LIST

(parts not shown to scale)

Parts and Accessories - 6" System (cont.)

لرومی اور کرد TCR206-01	Head Reinforcing Sleeve for TCR-671
ترت TCR207-01	Head Reinforcing Sleeve for TCR-681
TCR210-01	Head Anchor for TCR-671
് ന്ന്നം സ്തി TCR281-01	Typical Shear Block
ر میں	Sill Shear Block at 90° Outside Corner - Left Hand
TCR282-02	Sill Shear Block at 90° Outside Corner - Right Hand
ر <u>مت مت</u> TCR283-01	Head Shear Block at 90° Outside Corner - Left Hand
لیہ میں اور	Head Shear Block at 90° Outside Corner - Right Hand
 TCR284-01	Incidental Water Head Shear Block at 90° Outside Corner - Left Hand
 TCR284-02	Incidental Water Head Shear Block at 90° Outside Corner - Right Hand
TCR285-01	Intermediate Horizontal Shear Block at 90° Outside Corner - Left Hand
TCR285-02	Intermediate Horizontal Shear Block at 90° Outside Corner - Right Hand

TCR-313	PVC End Dam for Head & Sill
	90° Outside Corner Mullion End Cap
TCR-364	90° Outside Corner Foam Zone Plug
Г тск-293 тск-299 г тск-197 ТСК-690	Splice Package for TCR-671 Head
Гг <u>тск-293</u> тск-293 <u>тск-302</u> г тск-287 тск-197 TCR-691	Splice Package for TCR-681 Head
L TCR-196 TCR-294 TCR-196	Splice Package for TCR-682 Sill
DJ-111	Drill Jig for 6" System

Common Parts & Accessories

HP-1004	Weep Baffle at Head & Sill
SPW-PP-3	Temporary Glazing Retainer for SSG Verticals
TCR120-01	Setting Chair
TCR-300	SSG Bridge

TCR-250 WINDOW WALL INSTALLATION MANUAL PARTS LIST

(parts not shown to scale)

Common Parts & Accessories (cont.)

WW-364	Zone Plug - Deep Pocket
WW-365	Zone Plug - Shallow Pocket
GP-100	EPDM Sponge Gasket w/ PSA (for reglaze)
GP-101	Setting Block
🗱 GP-102	SSG Spacer
GP-103	Typical Fixed Gasket
GP-104	Optional EPDM Sponge Gasket
للم GP-113	Typical Wedge Gasket
 GP-114	Side Block for Shallow Pocket
GP115	'W' Side Block for Deep Pocket
(mmmm FS-6	#10 x 3/4" PPH B Pt., for horizontal attachment of shear blocks.
FS-7	#10 x 3/4" PFH B Pt., for horizontal attachment of shear blocks

FS-8	#14 x 1" HH B Pt., Frame Assembly Fastener
FS-9	#14 x 1-1/2" HH Pt., Assembly Fastener at Reinforcement Sleeves
[∭ ∭∭)⇒ FS-19	#10 x 5/8" HWH TEK, Attachment of Reglaze Legs & Head/Sill Splices
{ ,⊳ FS-55	#10 x 1/2" PPH AB Pt., for horizontal attachment of shear blocks
{ mm⊳ FS-114	#8 x 3/8" PPH A Pt., Attachment of SSG Bridge
FS-320	M4 x 16mm Headed Helical Pin, for attachment of end dams
FS-325	#12-24 x 1-11/32" HWH Drill Flex, for attachment 6" System OS90 Pressure Plate