INSTALLATION INSTRUCTIONS
2-1/2” x 6-9/16” for 9/16” Glass
PRODUCT FEATURES: PW256 and PW256 B.G.

Glazing Features:
• Same EPDM dense gasket used on interior and exterior at captured glass

Screw spline joinery allows:
• Coral Punch die shop fabrication
• Die set punches spline and pressure bar weep holes
• Panelized frame assembly for easy transporting and installation

Pressure Bars:
• Factory installed EPDM thermal isolator with attachment holes pre-punched 9" O.C.
• Attached to back members with #12 x 1-1/8" HWH #3 self-drilling screws

Removable snap-on interior trim covers at all horizontals allow:
• Anchor inspection to substrate after glazing
• Inspection and/or repair of critical joint seal areas prior to and after glazing

Injection molded plastic end dams and bridges at horizontals provide:
• Tight seals at intersection of vertical/horizontal joints for zone glazing

Aluminum and bottom vertical mullion caps:
• Accurate compression fit
• Provides continuous perimeter seal

Injection molded plastic temporary glazing retainer:
• Reduces labor
• Distributes uniform pressure on glass reducing risk of breaking glass
• Reusable for next project
# CURTAIN WALL
Hurricane Impact-Resistant

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 Notes -

11. WATER HOSE TEST. After a representative amount of the curtain wall system has been glazed (250 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 kept 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.

16. GLASS. Glazing gaskets are designed for a compression fit against glass and can accommodate (+/- 1/32”). Be sure to check overall size of glass and thickness.
1. **SEALANTS.** All sealants referenced in these instructions must be one part elastomeric silicone and must be applied according to the silicone manufacturer’s recommendations.

2. **APPLICATION.** Structural silicone must be applied from the interior and weatherseal from the exterior.

3. **MAXIMUM ALLOWABLE STRESS ON SILICONE.** The maximum allowable size of the glass lite is controlled by the width and depth of the silicone joint combined with the specified design wind load. The stress on the structural silicone must not exceed 20 PSI for a 6:1 safety factor. Check Structural Silicone Chart in the Architectural Design Manual for this product series.

4. **ARCHITECT.** It is the responsibility of the architect to secure approval of the system and request from the Glazing Contractor the compatibility and adhesion test reports described below.

5. **GLAZING CONTRACTOR.** 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. *This is required on every project.*

6. **CORAL ARCHITECTURAL PRODUCTS.** It is the responsibility of Coral Architectural Products to supply a system to meet the architect’s specification.

**PRODUCT APPLICATION AND INSTALLATION**

Series **PW256** Panelized Curtain Wall was designed with screw spline joinery for simple fabrication and panelized installation. These features make the fabrication and installation very similar to storefront systems. **PW256** Panelized Curtain Wall should only be installed by glazing contractors employing personnel with the necessary installation and project management experience to handle these type projects.

**PW256** Panelized Curtain Wall requires the installer to pay close attention to the details shown within these *Instructions* and *General Notes*. All critical seal areas must be completed as shown.
FRAME FABRICATION
Captured or B.G. Installation

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” allowing for a 1/2” minimum for shimming and caulking 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” allowing 1/2” minimum for shimming and caulking joint at the head and sill.

STEP 2. Vertical Members
Cut vertical members to size. (All vertical members run through)
Wall jambs, intermediate verticals, snap-in perimeter jamb filler and corner mullions are cut to frame height.
A. Pressure bars are cut frame height minus (-) 1/4”.
B. Face covers are cut frame height minus (-) 1/16”.
C. Reference Pages 29-30 for vertical mullions with a splice joint.

STEP 3.
Captured - Horizontals | B.G. - Horizontals
---|---
Cut horizontal members to size. | Cut horizontal members to size.
A. Head, sill and intermediate mullions are cut D.L.O. | A. Head, sill and intermediate mullions are cut D.L.O.
B. Pressure bars are cut D.L.O. minus (-) 1/4”.
C. Face covers are cut D.L.O. minus (-) 1/32”.
D. Interior snap-on trim is cut D.L.O. minus (-) 1/32” | B. Pressure bars run continuous between wall jambs. See page 41, Detail “A” for splice joints when req’d.
C. Face covers run continuous between wall jambs. See page 42, Detail “C” for splice joints when req’d.
D. Interior snap-on trim is cut D.L.O. minus (-) 1/32”
E. Horizontal glazing adaptors D.L.O. (-) 1/8”

Mullion spacing tolerance accumulation build up may become a problem on wide multi-bay elevations. Frequently check the cut lengths of head, sill and intermediate horizontal members prior to assembly to prevent tolerance build up. It is also good practice to check overall frame width every four or five bays during installation.
FRAME FABRICATION
Joinery Hole Locations

STEP 4.
Use DJ251 drill jig or PW251 Punch Die Set (same set used for PW251 System) for hole fabrication in verticals for attaching horizontals.

PW202
FILLER

PW550
VERTICAL MULLIONS

PW151

PW208
90º CORNER
Align drill with spline guide and drill 4 holes on angle

PW209

1-27/32" 41/64"

“F” (.257” Dia.)
Drill thru typ.

Top of Horizontal

1/4” Ø through bolt hole typ.

1-1/4"  2-11/16"  3/8"
2-1/2"  1-3/4"  3/8"
2-1/2"  1-3/4"  3/8"
2-1/2"  1-3/4"  3/8"
2-1/2"  1-3/4"  3/8"
2-1/2"  1-3/4"  3/8"
FRAME FABRICATION
Steel Reinforcement

STEP 5.
Fabricate steel reinforcement where required. Cut steel 1” less than length of vertical mullion.

- **SR151**
  - Steel for Vertical Mullions and Jambs
  - 1-7/8”
  - 1/4” Ø hole typical
  - Locate at center for each horizontal mullion or match drill after inserting into vertical mullion.

- **SR150**
  - Steel for Vertical Mullions and Jambs
  - 1-7/8”

- **SR504**
  - Steel for 90º Corner
  - 4-5/8”
  - 1/4”
  - Match drill holes in SR504 at center of each horizontal after inserting into corner mullion.
FRAME FABRICATION
Head / Sill

STEP 6.
Fabricate head and sill anchor holes. Drill or punch one (1) ea. anchor hole located approximately 4” from each end of part. Hole should be centered on “V” groove located in extrusion. When two (2) or more fasteners are required, locate each additional fastener at minimum spacing as required for substrate.

**Note:** Hole Ø may vary depending on bolt size required for meeting job specific wind load conditions. Reference **CAP anchor charts** for typical conditions.

Punch or drill (Reference page 8) holes in each end of **PW552**.

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<tr>
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<td>7/16”</td>
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<td>1/2”</td>
<td>9/16”</td>
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FRAME FABRICATION
Wall Jamb

STEP 7.
Fabricate for wall jamb using PW550, PW202 and PW513.

PW202
Flat Filler

PW513
Pocket Filler

PW550
Vertical Mullion

3/4" Access Hole

Wall Jamb

Single Span

Multi-Span

Locate 8" long SR150-1 tapping plate at anchor location for multi-span conditions. Reference page 26, Detail “C”.
STEP 8.
Fabricate vertical and horizontal pressure bars.

Holes for attaching **PW204-1** pressure bars are pre-punched at factory 9” on center. The 1/4” Ø holes located 1-1/2” from each end of pressure bar will need to be added as shown below. Drill hole on “V” groove line.

**Note:** Pressure Bars have 3 “V” grooves for locating weep holes. Center drill over middle groove to ensure hole is in correct location. Weep holes may be punched using **PW251 Die Set** in Coral Punch.

**Note:** It is very important to ensure that vertical pressure bars are cut short to prevent dislodging **SP210** top & bottom mullion caps.
STEP 9.
Fabricate vertical and horizontal pressure bars.

Holes for attaching **PW204** pressure bars are pre-punched at factory 9” on center. The 1/4” Ø holes located 1-1/2” from each end of pressure bar will need to be added as shown below. Drill hole on “V” groove line.

**Note:** Pressure Bars have 3 “V” grooves for locating weep holes. Center drill over middle groove to ensure hole is in correct location. Weep holes may be punched using **PW251 Die Set** in Coral Punch.

**Note:** It is very important to ensure that vertical pressure bars are cut short to prevent dislodging **SP210** top & bottom mullion caps.
FRAME FABRICATION
Weep Holes for Horizontal Covers

STEP 10. Captured Installation
Fabricate horizontal face covers for 5/16" Ø weep holes. Install covers with weep holes located on the underneath side.

STEP 11. B.G. Installation
Fabricate horizontal face covers for 5/16" Ø weep holes. Install covers with weep holes located on the underneath side when snapping on covers. See page 42 for splice joints.
FRAME ASSEMBLY
Gasket Installation

STEP 1.

Prior to assembly of frames, install the following gaskets into the fabricated framing members:

Back Members: NG14
Intermediate Pressure Bars: NG10
Perimeter Pressure Bars: NG10 (against glass) and NG11 (against aluminum)
(Reference Detail “A” on page 41).
Spacer gasket for B.G. Mullion: NG14

GASKET INSTALLATION PROCEDURES (Do not stretch gaskets)

1. Cut gaskets allowing for 1/8” extra length per foot of framing members to accommodate shrinkage.
2. NG10 gaskets for vertical back members are cut D.L.O. plus 1-1/4”.
   (Reference Detail “A” on page 37).
3. NG14 Vertical spacer gasket runs full length on PW151 B.G. mullion.
   (Reference Detail “B” on page 37).
4. Horizontal spacer gasket is cut to D.L.O. length.
5. Horizontal pressure bar: glazing gasket should extend 1/8” beyond end of pressure bar.
6. Vertical pressure bar: gasket runs full length.
STEP 2.

GLAZING TAPE INSTALLATION PROCEDURES: *Ref. Step 3.*

1. Cut **SM5601** 1/8” x 1/2” tack tape approximately 2-3/4” long.
2. Clean surfaces where tape is to be applied with isopropyl alcohol or solvent to remove all dirt and cutting oils. Allow surface to dry before applying tape.
3. Position tape on vertical mullions at horizontal joint intersections.
4. Just prior to frame assembly, remove protective cover and screw joints together.
5. Use a box knife to trim excess sealant tape where exposed. Do not pull tape to trim.
CAPTURED FRAME ASSEMBLY
Vertical to Horizontal Joinery

STEP 3.

PW202
Filler

AS16
Spline Screw (Typ.)

PW550
Vertical

Anchor Hole
(Ref. page 10)

PW552
Head

PW555
Horizontal

PW552
Sill

Note: Reference page 37, Detail “A” for NG14 Gasket location in vertical.
B.G. MULLION FRAME ASSEMBLY
Vertical to Horizontal Joinery

STEP 4.

PW202
Filler

AS16
Spline Screw (Typ.)

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Note: NG14
Spacer Gasket Runs through

PW151
Vertical

PW552
Head

Anchor Hole (Ref. page 10)

PW555
Horizontal

PW552
Sill
STEP 5.

WALL JAMB ASSEMBLY
Vertical to Horizontal Joinery

Note:
Apply bead of sealant under PW513 and attach to PW550 prior to installing into opening. Cap seal all anchors.

Cap seal all anchors.
OUTSIDE CORNER ASSEMBLY
Corner to Horizontal Joinery

STEP 6.

PW208
Female Half

AS16
Spline Screw (Typ.)

PW209
Male Half

Anchor Hole
(Ref. page 10)

PW552
Head

PW555
Horizontal

PW552
Sill
OUTSIDE CORNER ASSEMBLY
Corner Assembly Fasteners

STEP 7.

AS25
(#12 x 3/4" HWH #3 self drilling fastener) Locate 18” O.C. at front and back.

PW556
90˚ Glazing “Tee”

AS34
(#12 x 1-1/8” HWH #3 self drilling fastener) Locate 18” O.C.

1/4” Ø x 3” bolt with washer and nut.

SR504
Steel inserted as required

2 ea.
AS13
Steel Spacers

1/4” - 20 x 1-1/4” bolt with washer and nut

SP212
Corner Cap

Pressure Bar

Face Cover

Sealant

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MULLION CAP INSTALLATION
Captured and B.G.

STEP 8. Prior to installing frames into opening, install aluminum SP210 mullion caps at top and bottom of vertical members as shown below to ensure continuous perimeter seal.

**Note:**
Remove material on SP210 at raised line on wall jamb when required.
STEP 1.
Install assembled frame panels into opening starting with jamb and continue working toward the last bay until the last panel is installed. Reference illustrations shown below for sequencing.

**Note:** Snap-in PW202 flat filler and PW513 pocket filler into jambs prior to installing. *PW513 is difficult to install after jambs are installed due to limited work space.*
TYPICAL JAMB INSTALLATION

STEP 2.

Pocket Filler (Install before positioning frame into opening).

 PW513

Note: Location of caulk line. Perimeter sealant is done prior to glazing and installation of pressure bars and face caps.

AS2

#8 x 1/2” PPH

PW50

PW513

Jamb Section

SP210

Locate (1) 3/8" x 2" fastener at each intermediate horizontal when required for single span installation.

Drill 3/4" Ø access hole for installing fastener when required for single span installation to limit mullion deflection.

1/2" Minimum Caulk Joint (Typical)

Head Section shown (Sill Section similar)

Note: Reference CAP Anchor Chart for anchor type and embedment depending on loads and substrate.

See Anchor Charts

SP210

Anchor Hole

Note: Reference CAP Anchor Chart for anchor type and embedment depending on loads and substrate.
Details A and B show fixed (dead load) and expansion (wind load) anchors. Anchor type, size and quantity vary per job requirements. Details shown are to be used as a guide only. See approved shop drawings for actual conditions.

Step 1. Secure verticals to anchor clips after alignment has been completed.

Note: Mullion spacing must be held to within ± 1/32”. Check overall frame dimension every four bays to monitor dimension build up.

**Details A**

- Fixed Anchor (Dead Load Anchor)
  - Nylatron pad
  - Primary bolts with nuts, flat washer and lock washer
  - 1-1/2" min.
  - Match drill holes after alignment has been completed.
  - Back off nut 1/4” turn after tightening to allow for thermal movement.

**Details B**

- Expansion Anchor (Wind Load Anchor)
  - Nylatron pad
  - Primary bolts with nuts, flat washer and lock washer
  - 1-1/2" min.
  - Match drill holes after alignment has been completed.
STEP 2.

**Note:** Details shown are to be used as a guide only. See approved shop drawings for actual conditions.

**Detail C**
*Fixed Anchor* (Dead Load) shown

- 8” long SR150-1 Steel tap plate
- 5/8” Ø primary bolt with lock washer
- 1/16” Nylatron slip pad

**Note:** Reference **Detail B** on page 25 for wind load anchor.
SPLICE DETAIL
Vertical Mullion - Multi-Span

STEP 3.
1. Clean splice sleeves and all joint surfaces. Apply bond breaker tape at areas where sleeve will be sealed to avoid three side adhesion.
2. Slide sleeve into the upper member before it is installed and use duct tape to hold it in retracted position.
3. Install **AS25** stop screw 2-7/8" from top of lower member as shown below.
4. Install upper member, remove duct tape and let extruded sleeve slide down until it rests on top of stop screw.
5. Seal joint over sleeve as shown on **Detail “F” (page 28)**. Stagger joints on back members, pressure bars and face covers.

![Diagram of splice detail with annotations]

- **Steel reinforcing above splice when required.**
- **PW207-1** Splice sleeve
- **Apply bond-breaker tape to sleeve at joint area**
- **Duct tape**
- **Splice sleeve length**
- **6” to bottom of steel reinforcing**
- **7”**
- **AS25 Stop Screw (#12-14 x 3/4” self drilling fastener)**

Detail D
STEP 4.

Slope sealant to direct drainage between pressure bar and face cap (use backer rod as required).

Pressure bar splice 1/2" min.

Seal cover joint as shown (use backer rods as required).

Note: Reference page 43, Detail "B" for location of fastener on face cover at splices.

Install (2) AS25 (#12-14 X 3/4") self drill fasteners as shown.
STEP 1.

Apply bond breaker tape along face of splice.

Seal joint between mulls at face and splice.

Seal and tool joint between mullions. Seal to run across face, tongue and minimum 1-1/2" along sides of mullion.

Attach splice with AS25 (#12-14 X 3/4") self drilling fasteners, (2) per side. (Fasteners required for dead load splice only. Omit for expansion anchors).

PW207-1
Splice sleeve

PW208

PW209

90˚ Corner Splice

1 1/2"

2 3/4"

1/2" joint based on 1/4" live load.

Detail G

PW211-1
Splice sleeve
(2 Required)

PW207-1
Splice sleeve

Seal and tool joint between mullions. Seal to run across face, tongue and minimum 1-1/2" along sides of mullion.

1 1/2"

Stop screw
STEP 1.

**Splice Sleeve**

**PW207-1**

- Insert backer rod into tongue of upper and lower mullions.
- Seal joint between mullions at face and splice.
- Apply bond breaker tape along face of splice.
- Seal joint between mullions. Seal to run across face, tongue, and minimum 1-1/2" along sides of mullion.

Install splice sleeve to each side of mullion.

Attach splice with **AS25** #12-14 x 3/4" self drilling fasteners, (2) per side. (Fasteners required for dead load splice only. *Omit for expansion anchors*).

1/2" joint based on 1/4" live load.
Note 1: Do not install fasteners on upper half for expansion anchors.

STEP 1

Insert backer rod between glass and tongue of mullion prior to installing pressure bars.

STEP 2

Seal between pressure bars.

STEP 3

When installing face caps leave 1/2" joint between caps. Note joint based on 1/4" expansion.

Reference page 43 for attaching covers to prevent slippage at splice locations.
FRAME INSTALLATION
Perimeter Sealant Locations

STEP 1. Once all frames are installed and the system has been anchored to the substrate, apply weather seal around the entire perimeter. See details below for the correct location of the perimeter sealant and backer rod. Interior cosmetic seal is optional.

Note: Install perimeter caulking prior to installing glass and pressure bars.
FRAME INSTALLATION
End Dams

Critical Seal
Fill gasket reglet behind end dam with sealant.

Critical Seal
Apply sealant to all three contact surfaces prior to installation as shown.

SP202 End Dam

Note:
SP202 End Dam required on all joints (head, sill, intermediate horizontals)

STEP 1
Seal along tongue of horizontal across face and tongue of mullion before installing SP202 end dams.

STEP 2
Tool sealant along top of end dam to form a water tight seal.

STEP 3
Apply sealant to face of end dam just prior to installing vertical pressure bar.
**B.G. FRAME INSTALLATION**

**Bridges**

**STEP 1.**

Critical Seal
Apply sealant to all three contact surfaces prior to installation as shown.

NG14 Spacer gasket

Seal along tongue of horizontal and across face of mullion before installing SP206 bridge.

**STEP 2.**

Completely seal around SP206 bridge and NG14 gasket as shown.

Tool sealant along top and sides of bridge to form a water tight seal.
GLAZING
Setting Block Installation

Locate two setting blocks on each sill and intermediate horizontal member as shown. Reference Dead Load Charts for this system in Architectural Detail book and/or shop drawings for correct location based on glass size.
GLASS SIZE FORMULAS
Captured and B.G. Mullions

Glass Sizes for Captured System:

Glass Width and Height = D.L.O. + 1-1/2 ”

Glass Sizes for Butt Glazed System: (See Detail A below)

Glass Height = D.L.O. + 1-1/2 ”
Glass Width (Butt Glaze on Both Sides) = D.L.O. + 2”
Glass Width (Butt Glaze on One Side and Captured on the Other Side) = D.L.O. + 1-3/4”

Glass Width at 90º Corner:

With Captured Intermediate Vertical = D.L.O. + 1-1/2 ”
With B.G. Intermediate Vertical = D.L.O. + 1-3/4”

Note: Glass tolerances are not addressed in the above formulas. Consult the glass manufacturer for glass tolerances prior to ordering. Structural silicone must be applied from the interior and weatherseal from the exterior.
GLAZING
Sealant at Interior Gasket Corners

Note:
NG14 Gasket
is cut D.L.O. + 1-1/4"

Note:
Vertical gaskets
do not run through.

Note: NG14
spacer gaskets
run through.
GLAZING
Glass Installation

Step 1.
Install glass and center in opening. Retain glass with SP253 temporary retainers. Retainers should remain in place until structural silicone has fully cured on B.G. Mullions.

Note: Remove temporary retainers one mullion at a time and install PW204-1 pressure bars. Do not rely on temporary retainers to hold glass for extended periods. SP253 temporary retainers should be saved and reused.

Apply sealant to face of end and bridge dams just prior to installing the pressure bars. Critical seal.

Leave SP253 temporary retainers on B.G. Mullion until silicone has cured. Then remove and apply exterior cosmetic seal.

Torque SP253 Temporary glass retainer to 30 in. lbs. Do not over torque.

Note: For B.G. Installation, position smooth side of SP253 against glass. Use (#12-14 x 2") self drill screw to attach SP253 at B.G. Mullion. Do not use these fasteners for attaching PW204 pressure bars.
GLAZING
Pressure Bar Installation - Captured

Install AS34 vertical pressure bar fasteners from bottom to top and horizontal pressure bar fasteners from center outward. Make sure one fastener is located 1-1/2” maximum from vertical/horizontal joint intersections to ensure proper pressure over end dams. **While installing pressure bar fasteners, take care not to disengage NG12 pressure bar spacer.**

**Note:** Weep holes (two per lite) are always on top.

**Step 1.** Attach vertical pressure bars leaving a 1/8” gap at top and bottom with AS34 (#12 x 1-1/8” HWH #3 self-drilling fasteners). Using electrically powered hand held drill/driver, torque AS34 fasteners to 85-90 in. lbs. If using battery power tools, **it is recommended that installer frequently check for accurate torque settings, as battery power will diminish over time.**

**Step 2.** Center horizontal pressure bars in opening leaving a 1/8” gap at each end and attach.

**Step 3.** Upon completion of pressure bars installation and just prior to installing face covers, seal all gaps at intersection of vertical/horizontal pressure bar joints and tool the sealant.
Install **AS34** vertical pressure bar fasteners from bottom to top and horizontal pressure bar fasteners from center outward. Make sure one fastener is located 1-1/2" maximum from vertical/horizontal joint intersections to ensure proper pressure over end dams. **While installing pressure bar fasteners, take care not to disengage NG12 pressure bar spacer.**

**Note:** Weep holes (two per lite) are always on top.

**Step 1.** Remove temporary retainers one mullion at a time. Attach vertical pressure bars leaving a 1/8" gap at top and bottom with **AS34** (#12 x 1-1/8" HWH #3 self-drilling fasteners). Using an electrically powered hand held drill/driver, torque **AS34** fasteners to 85-90 in. lbs. If using battery power tools, **it is recommended that installer frequently check for accurate torque settings, as battery power will diminish over time.**

**Step 2.** Center horizontal pressure bars in opening leaving a 1/8" gap at each end and attach.

**Step 3.** Upon completion of pressure bars installation and just prior to installing face covers, seal all gaps at intersection of vertical/horizontal pressure bar joints and tool the sealant.
1. Remove temporary retainers one vertical at a time and install pressure bars using \textbf{AS34} (#12 x 1-1/8" HWH #3 self-drilling fasteners) and a cordless adjustable clutch driver/drill with a 3/8" driver. Torque fasteners to 85-90 inch pounds. Periodically check the torque setting on the adjustable clutch driver/drill. \textbf{Note:} Recommended drive speed for \textbf{AS34} is 2000 rpm.

2. Install wall jamb pressure bar fasteners from bottom to top and horizontals from center outward. Locate \textbf{AS34} fasteners 1-1/2" maximum from vertical/horizontal intersections to ensure proper pressure over end and bridge dams. Reference \textbf{Step 8, page 12}.

3. Remove temporary retainers from horizontals, one bay at a time, and center horizontal pressure bars in opening leaving 1/8" gaps at ends and 1/2" at splice joints. Attach with \textbf{AS34} fasteners, reference \textbf{page 40} and \textbf{Detail “A”} below.

4. Upon completion of pressure bars installation and just prior to installing face covers, seal all gaps at intersection of vertical/horizontal pressure bar joints and tool the sealant.

5. Seal between pressure bar & face cover splices. Keep sealant away from face cover snap area.

\textbf{PRESSURE BAR INSTALLATION At B.G. Mullions}

\begin{itemize}
\item [\textbf{1.}] Remove temporary retainers one vertical at a time and install pressure bars using \textbf{AS34} (#12 x 1-1/8" HWH #3 self-drilling fasteners) and a cordless adjustable clutch driver/drill with a 3/8" driver. Torque fasteners to 85-90 inch pounds. Periodically check the torque setting on the adjustable clutch driver/drill. \textbf{Note:} Recommended drive speed for \textbf{AS34} is 2000 rpm.
\item [\textbf{2.}] Install wall jamb pressure bar fasteners from bottom to top and horizontals from center outward. Locate \textbf{AS34} fasteners 1-1/2" maximum from vertical/horizontal intersections to ensure proper pressure over end and bridge dams. Reference \textbf{Step 8, page 12}.
\item [\textbf{3.}] Remove temporary retainers from horizontals, one bay at a time, and center horizontal pressure bars in opening leaving 1/8" gaps at ends and 1/2" at splice joints. Attach with \textbf{AS34} fasteners, reference \textbf{page 40} and \textbf{Detail “A”} below.
\item [\textbf{4.}] Upon completion of pressure bars installation and just prior to installing face covers, seal all gaps at intersection of vertical/horizontal pressure bar joints and tool the sealant.
\item [\textbf{5.}] Seal between pressure bar & face cover splices. Keep sealant away from face cover snap area.
\end{itemize}
1. Locate 1/2" wide splice joints at center line of vertical members.
2. Do not align face cover splices directly over pressure bar splices. Offset 6" minimum.
   See Detail “C”.
3. Set backer rod between face cover and pressure bars at joint and seal. Tool sealant.
   See Detail “D”.

Note: Pin one end of each face cover with AS31 fastener to prevent slippage. Reference Detail “C” on page 43.
FACE COVER INSTALLATION

1. Care must be taken to prevent damage of face covers during installation. Use a piece of wood such as 2” x 4” approximately 8-10” long and a 3” diameter Stanley 3 lb. Compo-Cast dead blow soft face hammer.

2. Install vertical face covers first. Do not displace top and bottom mullion caps when installing face covers. Pinning of vertical face cover is required to prevent slippage. Use one AS31 on each side per cut length, concealed behind horizontal face cover as shown. See Detail B.

3. Install snap-in horizontal face covers with the weep holes located on the bottom side.

4. Horizontal face covers exceeding 1-1/2” in depth must be pinned on top side with AS31 fastener to prevent disengagement. Locate one fastener at mid-point for 3-5 ft. lengths. On longer lengths, locate at 3’-0” O.C. See Detail C.

SEALING MULLION END CAPS

Top and Bottom (Top Shown - Bottom Similar)

1. Seal top and bottom of each vertical mullion end cap as shown. 

   **Note:** Vertical face covers are cut mullion length -1/4”. Leave 1/8” gap at top and bottom.
INTERIOR TRIM INSTALLATION
Checking Joinery Seals and Anchor Bolts

Step 1. Check seals at all vertical/horizontal joints and reseal if required.

Step 2. Check all perimeter anchor bolts to make sure they are installed and secure.

Step 3. Insert PW203 interior trim cover into receiver and snap downward into place. Use dead blow mallet and wooden block as required. Take care not to ding or bend cover.

Note: Interior trim covers may be omitted in spandrel areas when not visible from interior.
ENTRANCE SUBFRAMES

Note: Refer to FRAMES & ENTRANCES section of this manual for additional fabrication and installation instructions. Entrance Frames may be installed simultaneously with Curtain Wall or after Curtain Wall installation has been completed.
SUBFRAME FASTENER CHART

4 Ea. (#12 x 2" H.H. #3 self drilling fastener) at header for surface closer ▲

4 Ea. AS25 (#12 x 3/4" HWH #3 self drilling fastener) at jambs

Steel Substrate: 1/4" Ø Tek Screws (5 ea.)
Concrete Substrate: 1/4" Ø Tapcons (5 ea.)
(With 1-3/4" Minimum Embedment)

▲ For C.O.C. Tubular Header, use 4 ea.
AS25 with access holes concealed under
DS202-1 offset arm cover.