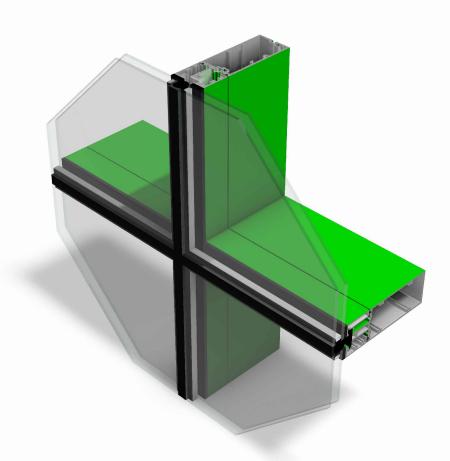


LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

400 4-SIDE SSG CASSETTE



INSTALLATION INSTRUCTIONS with 400CW / T CURTAIN WALL

3056 Walker Ridge Dr. NW, Suite G • Walker, MI 49544 • 800-866-2227







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GENERAL CONSTRUCTION NOTES



1. These instructions cover typical product application, fabrication, installation and standard conditions and are general in nature. They provide useful guidelines, but the fnal shop drawings may include additional details specifc to the project. Any confict or discrepancies must be clarifed prior to execution.

2. Materials stored at the job site must be kept in a safe place protected from possible damage by other trades Stack with adequate separation so materials will not rub together and store off the ground. Cardboard or paper wrapped materials must be kept dry. Check arriving materials for quantity and keep a record of where various materials are stored.

3. All field welding must be done in accordance with AISC guidelines. All aluminum and glass should be shielded from field welding to avoid damage from weld splatter. Results will be unsightly and may be structurally unsound. Advise general contractor and other trades accordingly.

4. Coordinate protection of installed work with general contractor and/or other trades.

5. Coordinate sequence of other trades which afect framing installation with the general contractor (e.g. fire proofing, back up walls, partitions, ceilings, mechanical ducts, HVAC, etc.).

6. General contractor should furnish and guarantee bench marks, offset lines and opening dimensions. These items should be checked for accuracy before proceeding with erection. Make certain that all adjacent substrate construction is in accordance with the contract documents and/or approved shop drawings. If not, notify the general contractor in writing before proceeding with installation because this could constitute acceptance of adjacent substrate construction by others.

7. Isolate all aluminum to be placed directly in contact with masonry or other incompatible materials with a heavy coat of zinc chromate or bituminous paint. Fasteners attaching framing to building structure are typically not provided by Tubelite.

8. Sealant selection is the responsibility of the erector, installer and/or glazing contractor and must be approved by the sealant manufacturer with regard to application and compatibility for its intended use. All sealants must be used in strict accordance with the manufacturer's instructions and applied only by trained personnel to surfaces that have been properly prepared.

9. Sealant must be compatible with all materials with which they have contact, including other sealant surfaces. Consult the sealant manufacturer for recommendations relative to shelf life, compatibility, cleaning of substrate, priming, tooling adhesion, etc. Recommend sealant manufacturer perform adhesion "pull test" at "wet" glazing for quality assurance.

10. Drainage gutters and weep holes must be kept clean at all times. Tubelite will not accept responsibility for improper drainage as a result of clogged gutters and weep holes.

11. This product requires clearances at the head, sill and jambs to allow for thermal expansion and contraction as well as construction tolerances. Refer to final distribution drawings for joint sizes. Joints smaller than 1/2 " may be subject to failure. Consult the sealant manufacturer for proper sizing of joints.

12. All framing members, entrances and other materials are to be installed plumb, level and true with regard to established bench marks, column center lines or other working points established by the general contractor and checked by the erector, installer and/or glazing contractor.

13. After sealant is set and a representative amount of the wall has been glazed (500 square feet or more), run a water hose test to check installation. On large projects, a hose test should be repeated during glazing operation. This testing should be conducted in accordance with AAMA 501.2 specifications.

14. Cleaning of exposed aluminum surfaces should be done per AAMA recommendations.

15. Care must be taken when assembling aluminum framing components. Over tightening any fastener may cause stripping or fastener failure. Tubelite recommends the use of drill motors with clutches engaged to provide satisfactory tightening of the screw while preventing over torque. The use of impact drill motors is not recommended due to the absence of a clutch device.

16. Check www.tubeliteinc.com for any installation instruction updates.

GENERAL CONSTRUCTION NOTES



17. For cold weather installation, glazing materials (including but not limited to glazing gaskets, isolators and gaskets for air seals and expansion mullions) can become more rigid and thus more difficult to install. These materials should be installed at temperatures above 40 degrees Fahrenheit for proper system performance and ease of installation. A hot box may be required to warm the glazing materials prior to installation. Allow glazing materials to lay flat at 50 degrees Fahrenheit minimum temperature prior to installing.

400CW/T ASSEMBLY AND INSTALLATION

Refer to Tubelite, Inc website (tubeliteinc.com) for 400CW/T curtain wall installation instructions.

- 1. Make sure the opening is square and the perimeter from edge of frame to substrate is 1/2" minimum clearance.
- 2. Sealant at Horizontal to Vertical frame intersection is not required where Cassette framing will be installed.
- 3. Water dam installation is not required where Cassette framing will be installed.
- 4. Check anchor size and location against installation instructions or approved shop drawings.

QUICK REFERENCE CHECKLIST

- 1. Review slide-n-pivot jamb anchor installation: Pre-load in jamb framing prior to assemble OR mill slot in jamb framing to install slide-n-pivot jamb anchor after cassette frame assembly.
- 2. Field verify DLO of installed curtain wall prior to cassette frame machining and assembly.
- 3. Each cassette type has its own sequence of pages for size determination to installation phase.
- 4. Cassette frames can be installed in vertical runs, horizontal runs or shingled. If spot frame installation is require then head / jamb slide-n-pivot anchor clips must be used at sill also.
- 5. Sill / Head-Sill slide-n-pivot anchor design for "rollover" cassette installation.
- 6. Install P4216 PVC perimeter isolator prior to cassette frame installation.
- 7. Install P4209 gasket prior to cassette frame installation.
- 8. Install all Outside and Inside corner frame inserts prior to cassette frame installation.
- 9. Install inside corner cassette frame prior to installation of adjacent cassette frames.

NOTE: Refer to pages 80 -82 for perimeter trim closure installation. Option two requires vertical members to have stem removed 1" from both ends head and sill. This will need to be completed prior to frame installation.

FRAME SIZE CALCULATION

Refer to individual cassette frame types for cassette frame size calculator

GLASS SIZE CALCULATION

Refer to individual cassette frame types for cassette glass size calculator

NOTE: Tubelite Inc is not responsible for glass to frame installation, approval of glass to frame installation or materials used for glass to frame installation.

It is the glazing contractors responsibility to obtain approval from glass manufacturer for glass installation.

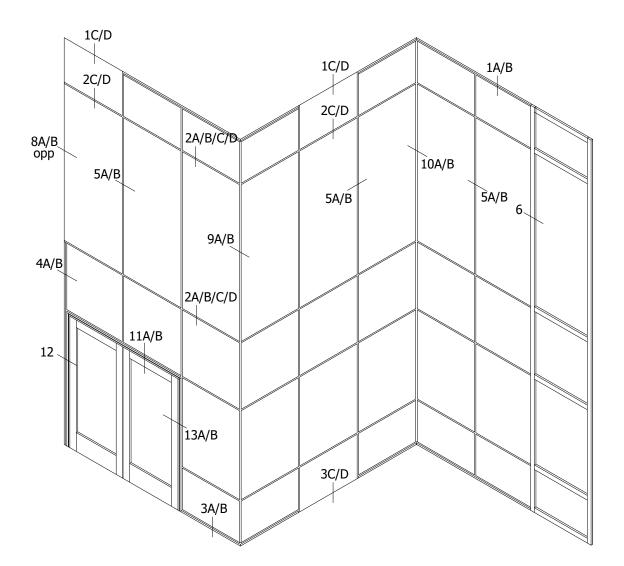
Finished sections of cassette framing may need to be sent to sealant manufacture for adhesion testing and approval.

3M VHB TAPE APPLICATION GLAZING

Approved shop drawings showing frame sizes and frame installation, AND finished sections of the cassette framing are required to be sent to 3M for review and approval prior to purchasing tape or glazing commences. Glazing contractor will be required to be trained and certified by qualified 3M personnel prior to VHB tape application or glass installation. (See 3M website for contact information)

DETAIL REFERENCE ELEVATION

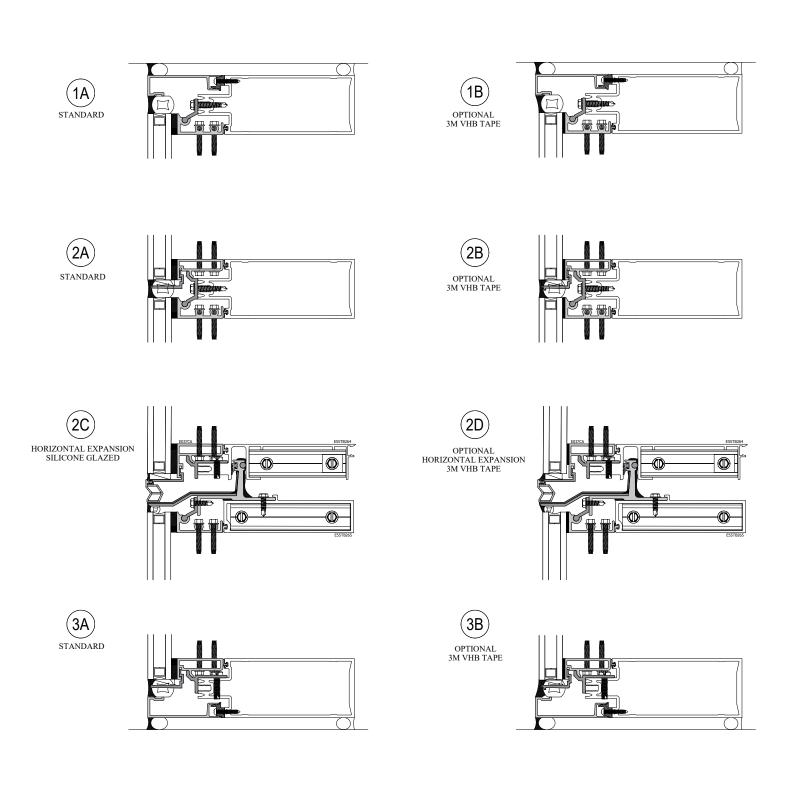




TYPICAL ELEVATION

HORIZONTAL DETAILS

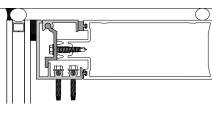


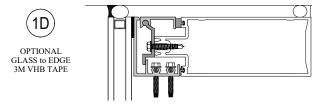


HORIZONTAL DETAILS

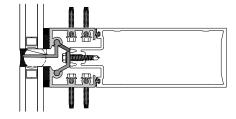




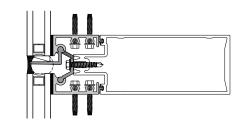




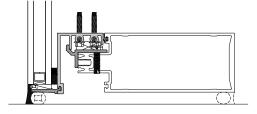


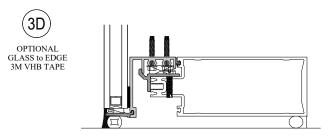






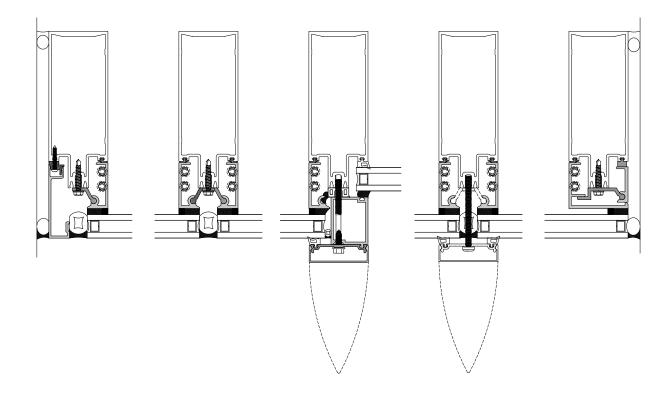


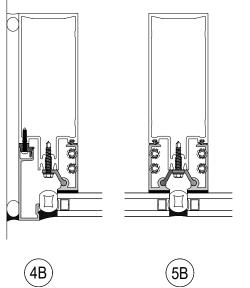




VERTICAL DETAILS

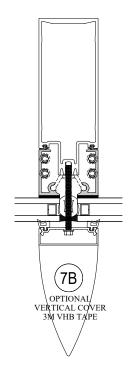


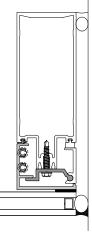




OPTIONAL JAMB 3M VHB TAPE



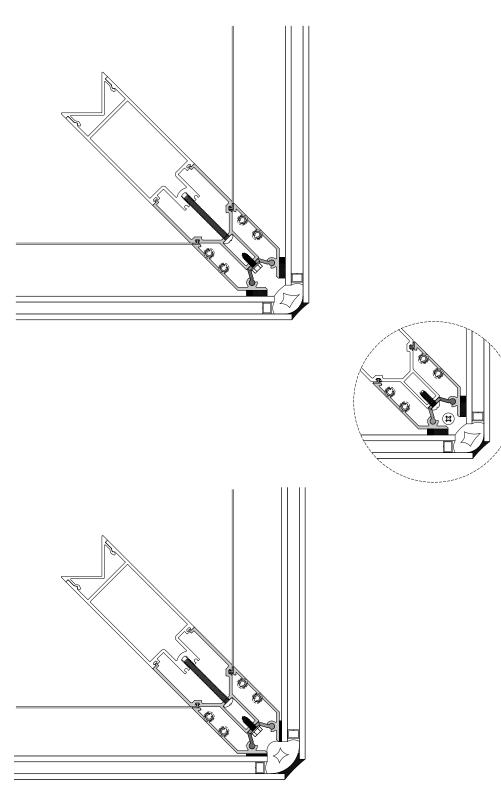






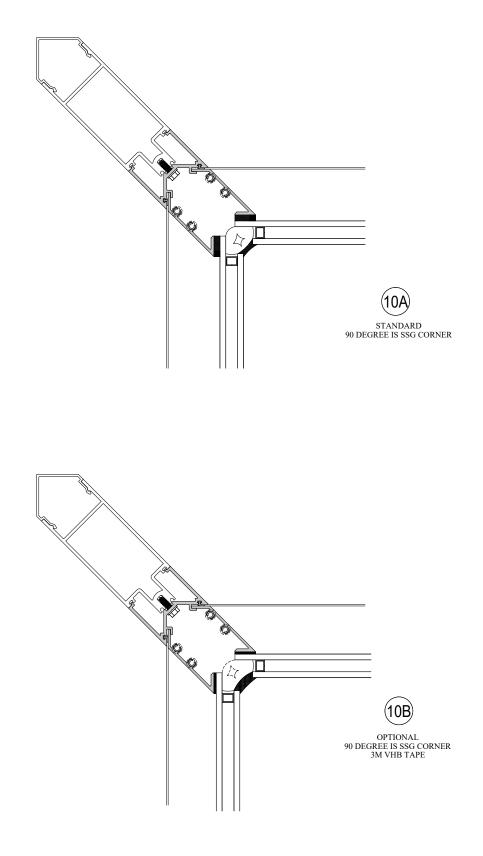


OUTSIDE 90 DEGREE CORNER DETAILS





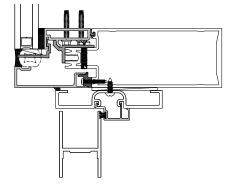
INSIDE 90 DEGREE CORNER DETAILS



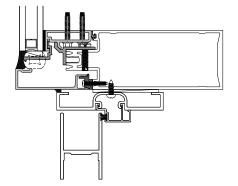
HORIZONTAL DETAILS



(11A) STANDARD DOOR TRANSOM

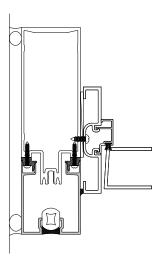




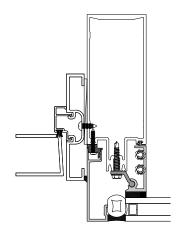


HORIZONTAL DETAILS

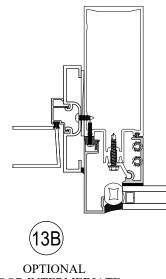












DOOR INTERMEDIATE 3M VHB TAPE

TYPICAL FRAMING EXTRUSIONS

LUDCLIC DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

| SHAPE | DESCRIPTION | Part No. | Stock Length |
|---------|---|----------|-----------------|
| | CASSETTE FRAME HEAD / JAMB | E001CA | 290" |
| | CASSETTE FRAME SILL | E002CA | 290" |
| | CASSETTE PERIMETER CLOSURE | E004CA | 290" |
| | CASSETTE "GLASS-to-EDGE" HEAD / JAMB | E009CA | 290" |
| [10 00] | CASSETTE "GLASS-to-EDGE" SILL | E010CA | 290" |
| | CASSETTE "GLASS-to-EDGE" BACK UP FRAME HEAD / JAMB / SILL | E011CA | 290" |
| The car | CASSETTE 90 DEGREE OS SSG CORNER FRAME | E017CA | 290" |
| | CASSETTE 90 DEGREE OS SSG CORNER INSERT | E020CA | 290" |
| | CASSETTE 90 DEGREE IS SSG CORNER FRAME | E023CA | 290" |

TYPICAL FRAMING EXTRUSIONS



LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

| SHAPE | DESCRIPTION | Part No. | Stock Length |
|-------------|---|----------|-----------------|
| | CASSETTE 90 DEGREE IS SSG CORNER INSERT | E026CA | 290" |
| | CASSETTE to CAPTURED TRANSITION INSERT | E033CA | 290" |
| | CASSETTE FRAME SILL EXTENDED HORIZONTAL EXPANSION | E037CA | 290" |
| | HORIZONTAL EXPANSION "CHICKEN HEAD" FRAME | E038CA | 290" |
| | HORIZONTAL EXPANSION "CHICKEN HEAD" SILL EXTENSION | E039CA | 290" |
| | CONTINUOUS SETTING BLOCK CHAIR with RECEIVER FOR PTB134 GASKET | E040CA | 290" |
| ζır−−−−−ζiş | CASSETTE to CAPTURED TRANSITION PRESSURE PLATE | M4TB224 | 290" |
| | CASSETTE to CAPTURED TRANSITION ALUMINUM COVER | E4TB64 | 290" |
| ýý | POLYURETHANE PRESSURE PLATE | PTB120 | 290" |

TYPICAL EXTRUDED ACCESSORIES

DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

R

| SHAPE | DESCRIPTION | Part No. | Stock Length |
|-------|---|----------|-----------------|
| | CASSETTE SLIDING / PIVOT ANCHOR HEAD / JAMB / SILL | P4200 | 1-1/2" |
| | CASSETTE SLIDING / PIVOT DEAD LOAD ANCHOR SILL | P4202 | 2-1/2" |
| | CASSETTE SLIDING / PIVOT ANCHOR GLASS-to-EDGE HEAD / JAMB | P4204 | 1-1/2" |
| | CASSETTE SILL SETTING BLOCK CHAIR - E002CA | P4215 | 6" |
| Ļ | CASSETTE PERIMETER CLOSURE PVC THERMAL ISOLATOR (E004CA) | P4216 | 144" |
| | CASSETTE SILL SETTING BLOCK CHAIR GLASS-to-EDGE TOP ASSEMBLED PANEL | P4217 | 6" |
| | CASSETTE SILL SETTING BLOCK CHAIR GLASS-to-EDGE SILL | P4623 | 6" |
| | CASSETTE DEAD LOAD ANCHOR SILL | P4222 | 2-1/2" |
| | CASSETTE SILL SETTING BLOCK CHAIR - E002CA - VHB TAPE GLZ. | P4224 | 6" |
| | CASSETTE SILL SETTING BLOCK CHAIR GLASS-to-EDGE TOP ASSEMBLED PANEL - VHB TAPE GLZ. | P4225 | 6" |
| | CASSETTE SILL SETTING BLOCK CHAIR GLASS-to-EDGE SILL - VHB TAPE GLZ. | P4226 | 6" |



ACCESSORIES - GASKETS / SETTING BLOCKS

LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

| SHAPE | DESCRIPTION | Part No. | Stock Length |
|------------|---|----------|------------------------|
| | 3/8" SILICONE THERMAL SEPARATOR GASKET | PTB108 | 250' per roll |
| | 1/4" x 1/4" NOTON GLAZING TAPE ADHESIVE ONE SIDE | P4211 | 250' per roll |
| | 1/4" x 1" SILICONE GLASS SETTING BLOCK | P1912S | 4" each 100 per pk. |
| | 7/16" x 1" SILICONE GLASS SETTING BLOCK DEAD LOAD GLASS-to-EDGE SILL | P4212 | 4" each 20 per pk |
| | 1/4" x 7/8" SILICONE GLASS SETTING BLOCK DEAD LOAD GLASS-to-EDGE SILL | P4603 | 4" each 20 per pk |
| | 1/4" x 3/8" SILICONE GASKET | P4209 | 250' per roll |
| <u>Д</u> э | 1/16" x 3/8" SILICONE FIN GASKET | P4227 | 250' per roll |
| t. | 1/4" SILICONE GLAZING GASKET | P4606 | 250' per roll |
| ß | "3 FINGER" SWEEP GASKET FRONT OF CHICKEN HEAD | PTB116 | 500' per roll |
| 0 | PVC SPACER ROD BACK SIDE OF CHICKEN HEAD | PTB117C | 120" each pc. |
| | HORIZONTAL EXPANSION GASKET CHICKEN HEAD | PTB134 | 120" each pc. |
| | RETICULATED FOAM BAFFLE CHICKEN HEAD | P4810 | 20 per package |

ACCESSORIES - FASTENERS

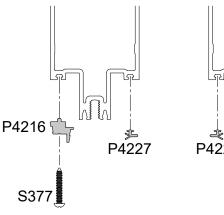
TUBELITE® DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

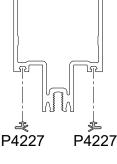
| SHAPE | DESCRIPTION | Part No. | Stock Length |
|-------------------------|--|----------|-----------------|
| | #12 x 1-1/4" HWH SS TYPE F CASSETTE FRAME ASSEMBLY | S375 | QTY = 100 |
| (funnunum) | 1/4-20 x 1-1/2" SELF-DRILLER CASSETTE ANCHOR FASTENER | S376 | QTY = 100 |
| () ############ | #8 x 1" PH PAN HD PVC THERMAL ISOLATOR FST. | S377 | QTY = 50 |
| | 1/4-20 X 1" HWH SS TYPE F PRESSURE PLATE TRANSITION FST. | S455 | QTY = 50 |
| | 1/4-20 X 2-3/4" PH FL HD SS MS TRANSITION INSERT FASTENER | S380 | QTY = 50 |
| | 1/4-20 X 1" PH PAN HD ZINC #23 SILL STARTER ANCHOR FASTENER | S292 | QTY = 50 |
| | 1/4-20 X 2-1/2" PH PAN HD ZINC OUTSIDE CORNER INSERT FST. | S473 | QTY = 25 |
| | 1/4-20 X 1" HWH SS 18-8 CHICKEN HEAD TO FRAME FASTENER | S457 | QTY = 100 |

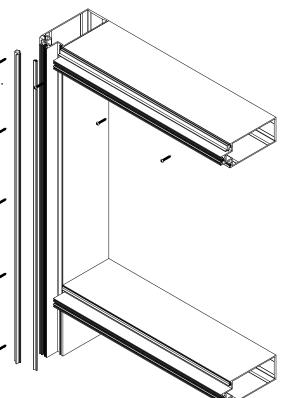
400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS

SUPPORT FRAME (400T BACK MEMBER) FRAME PREPARATION FOR CASSETTE INSTALLATION and ANCHORAGE

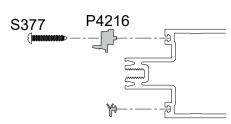
- REFER TO 400CW/T INSTALLATION MANUAL for CURTAIN WALL BACK MEMBER ASSEMBLY AND ANCHORAGE.





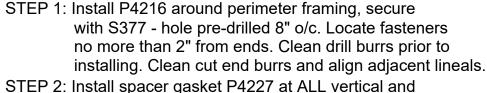


LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

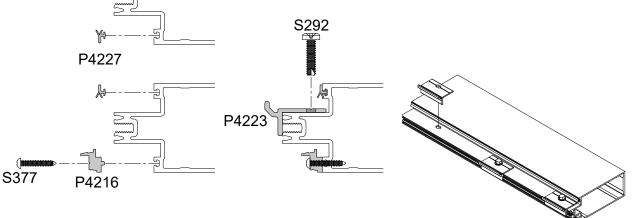


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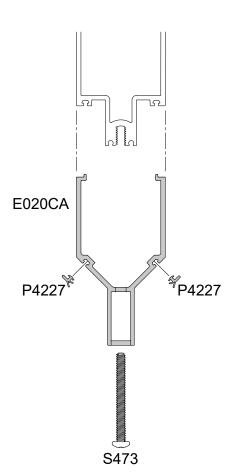


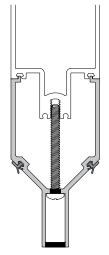
- horizontal framing members that will receive cassette framing. Leave long at ends as gasket will shrink back - trim gasket prior to cassette installation.
- STEP 3: Install starter / anchoring clip P4222 12" o/c with S292 self-tapping fastener. End clips no more 2" from ends of sill members.





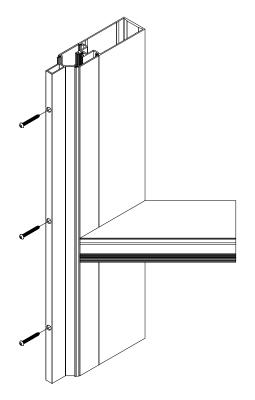
SUPPORT FRAME (400T BACK MEMBER) FRAME PREPARATION FOR CASSETTE INSTALLATION and ANCHORAGE OUTSIDE CORNERS





OUTSIDE CORNER FRAME PREP -

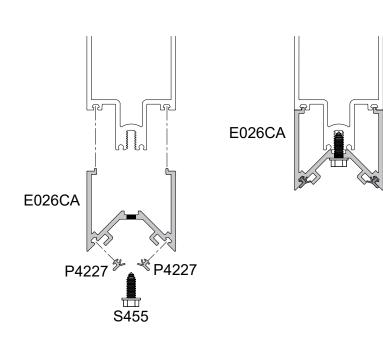
- STEP 1: Drill clearance holes and anchorage holes 18" o/c in E020CA corner insert. End holes no more than 2" from ends of extrusions.
- STEP 2: Attach E020CA to corner frame back member using S376 HX HD MS.
- STEP 3: Complete outside corner prep by installing P4227 spacer gasket. Leave gasket long at ends as gasket will shrink back - trim gasket prior to cassette frame installation.



400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS

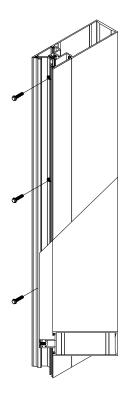


SUPPORT FRAME (400T BACK MEMBER) FRAME PREPARATION FOR CASSETTE INSTALLATION and ANCHORAGE INSIDE CORNERS



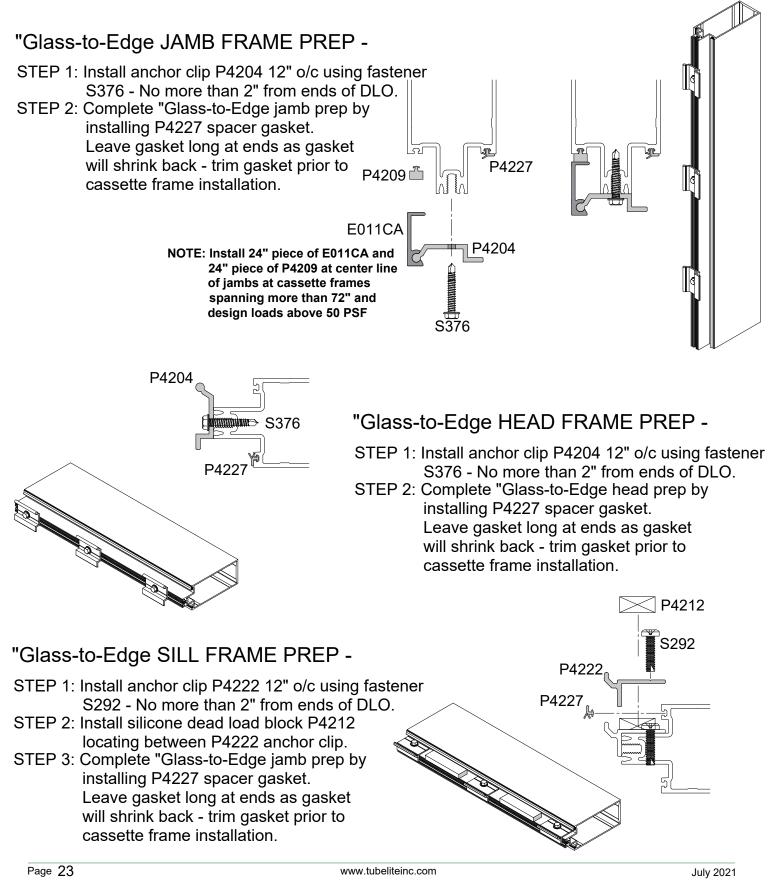
INSIDE CORNER FRAME PREP -

- STEP 1: Drill clearance holes and anchorage holes 18" o/c in E026CA corner insert. End holes no more than 2" from ends of extrusions.
- STEP 2: Attach E026CA to corner frame back member using S455 HX HD type F.
- STEP 3: Complete inside corner prep by installing P4227 spacer gasket. Leave gasket long at ends as gasket will shrink back - trim gasket prior to cassette frame installation.



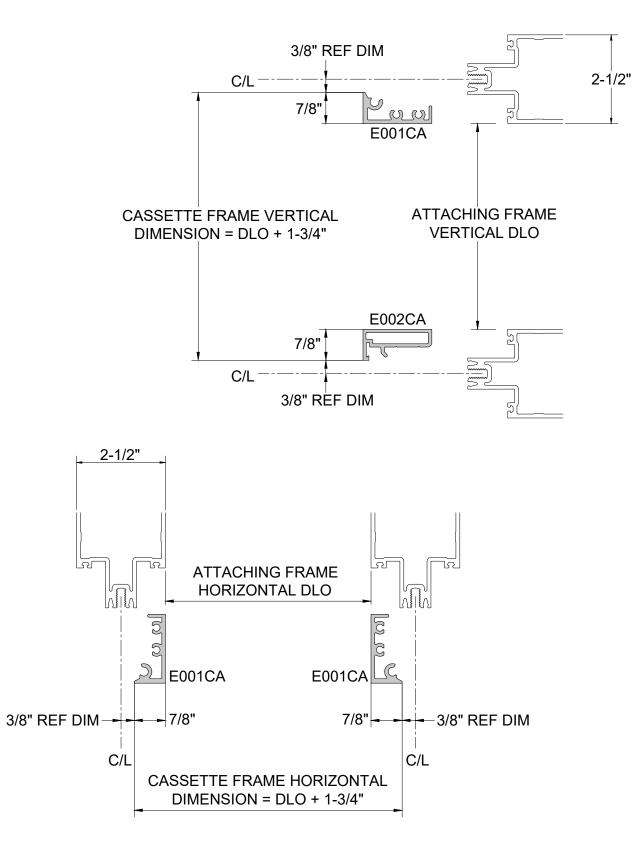
SUPPORT FRAME (400T BACK MEMBER) FRAME PREPARATION FOR CASSETTE INSTALLATION and ANCHORAGE "Glass-to-Edge" - JAMB, HEAD & SILL

DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS





CASSETTE FRAME SIZE CALCULATOR - TYPICAL FRAMING

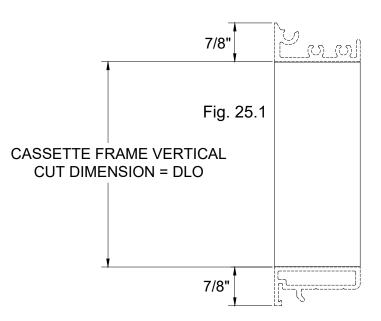


NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.



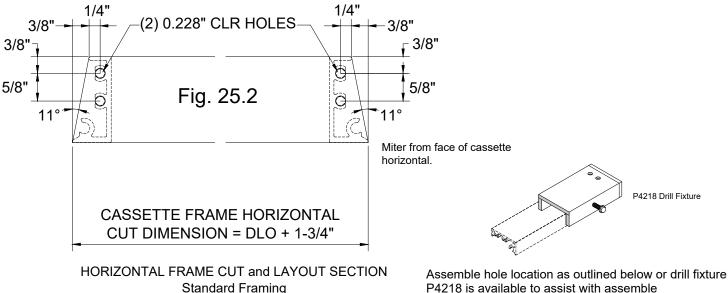
CASSETTE CUT SIZE CALCULATOR - TYPICAL FRAMING

Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 1-3/4" of attaching frame



VERTICAL FRAME SIZE CALCULATOR

- STEP 1: Cut vertical (jamb) frame E001CA to calculated vertical cut size, Fig. 25.1.
- STEP 2: Cut horizontal head frame E001CA to calculated cut size mitering each end 11 degrees each end as shown at Fig. 25.2.
- STEP 3: Cut horizontal sill frame E002CA to calculated cut size mitering each end 11 degrees each end as shown at Fig. 25.2.

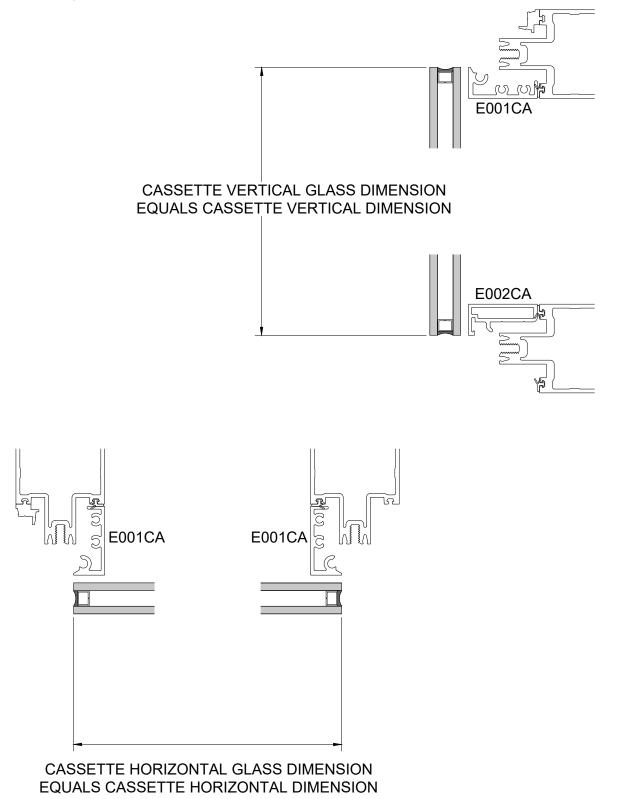


P4218 is available to assist with assemble hole location.



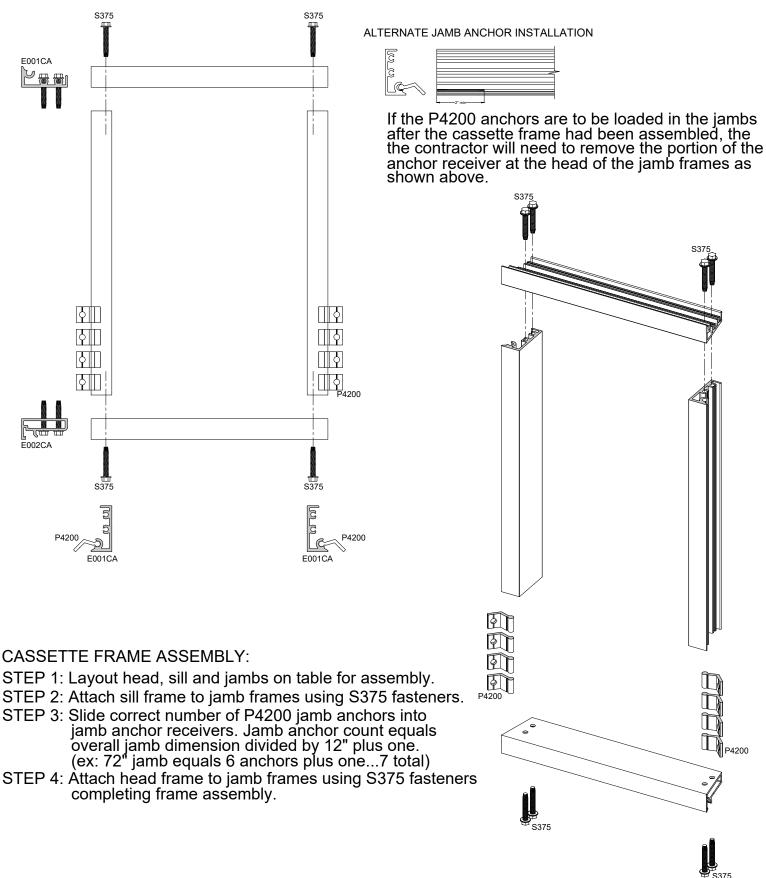
CASSETTE GLASS SIZE CALCULATOR - TYPICAL FRAMING

Cassette frame overall glass size: Vertical glass size = Back member DLO plus 1-3/4" Horizontal glass size = Back member DLO plus 1-3/4"



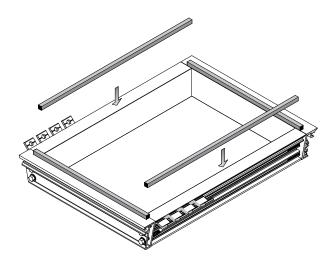


CASSETTE FRAME ASSEMBLY- TYPICAL FRAMING





CASSETTE FRAME GLAZING







Apply tape at DLO head, sill and jambs.

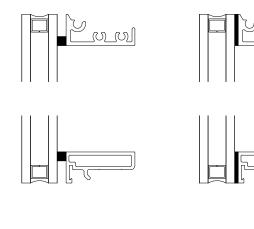


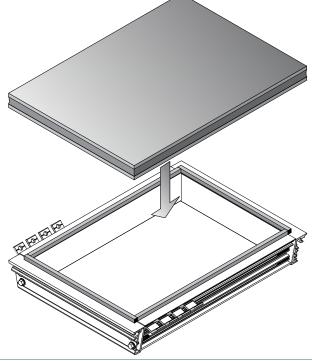
NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)

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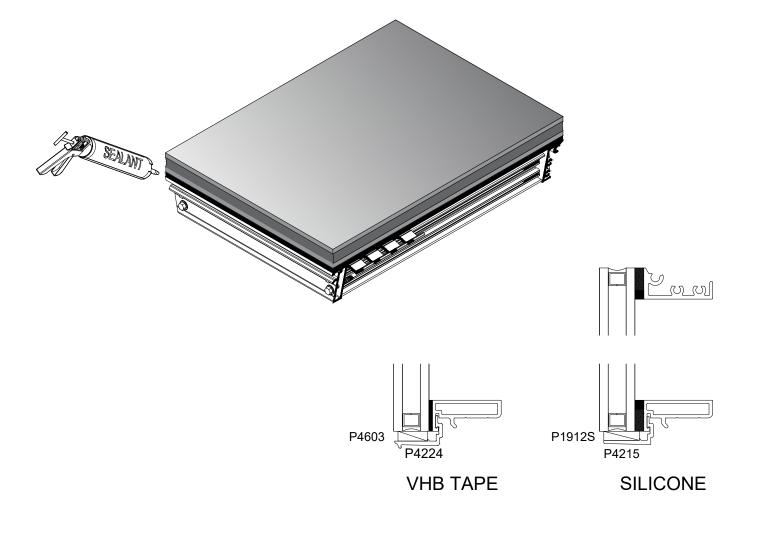




CASSETTE FRAME GLAZING - continued

CASSETTE SSG GLAZING

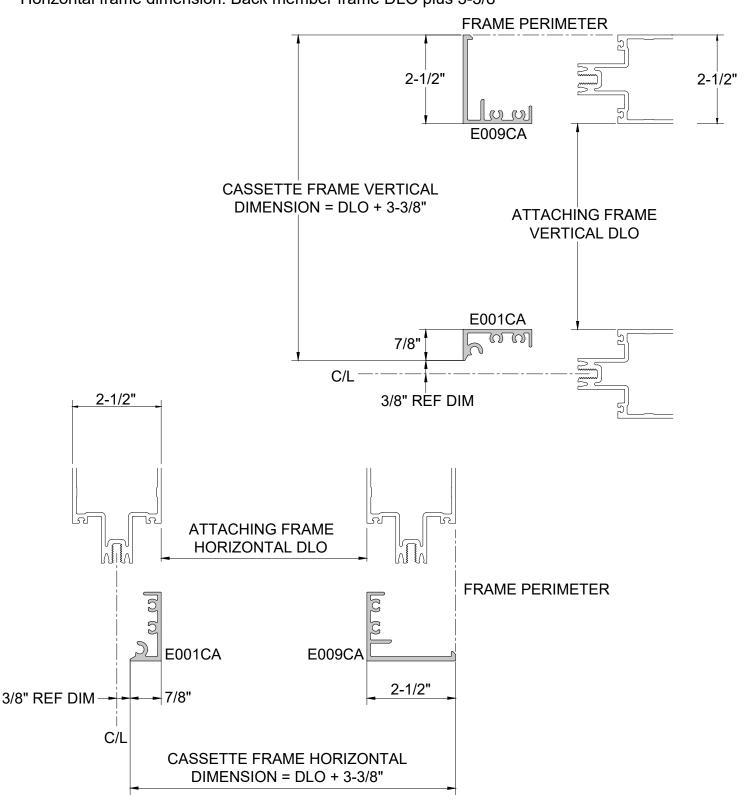
- Note: Use high grade structural silicone for SSG glass attachment to cassette frames. Follow manufactures' recommendations for application...environmental conditions, curing time and handling.
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Install setting block chair P4215 and setting block P1912S at quarter points. (Use setting block chair P4224 and P4603 setting block at quarter points when using VHB tape glazing)
- STEP 4: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



CASSETTE FRAME SIZE CALCULATOR -"Glass-to-Edge" Head / Jamb

Cassette frame overall dimension:

Vertical frame dimension: Back member DLO plus 3-3/8" Horizontal frame dimension: Back member frame DLO plus 3-3/8"



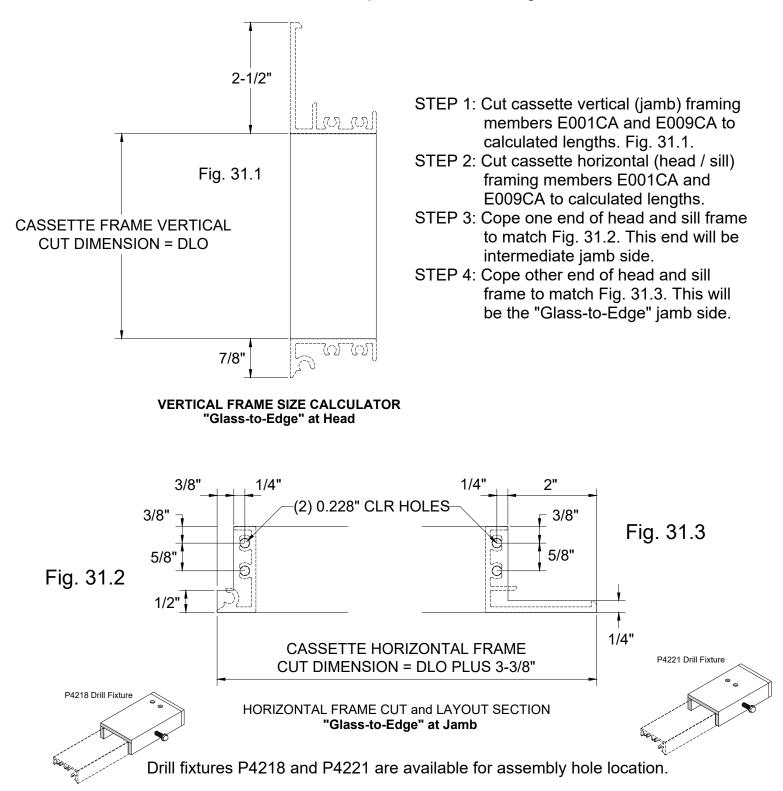
NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.





CASSETTE FRAME CUT SIZE CALCULATOR -"Glass-to-Edge" Head / Jamb

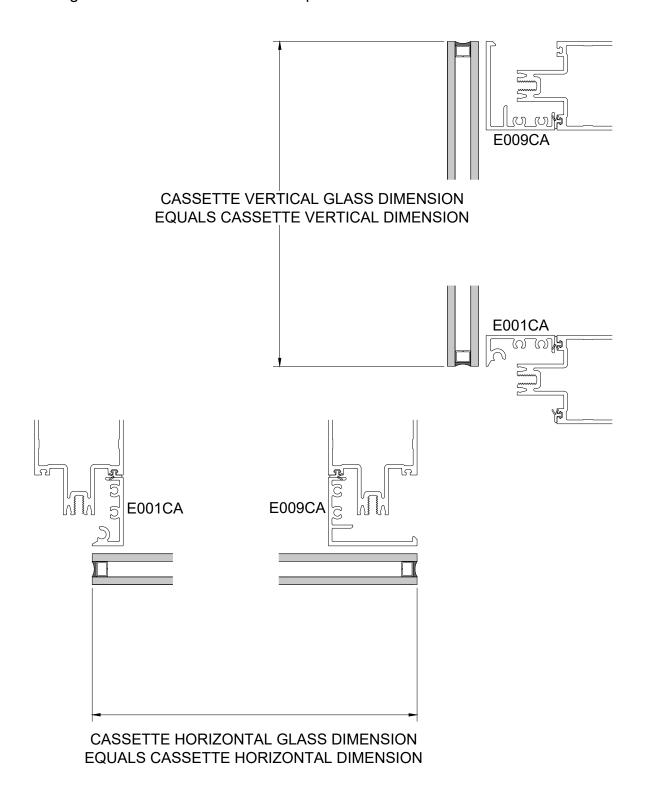
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 3-3/8" of attaching frame





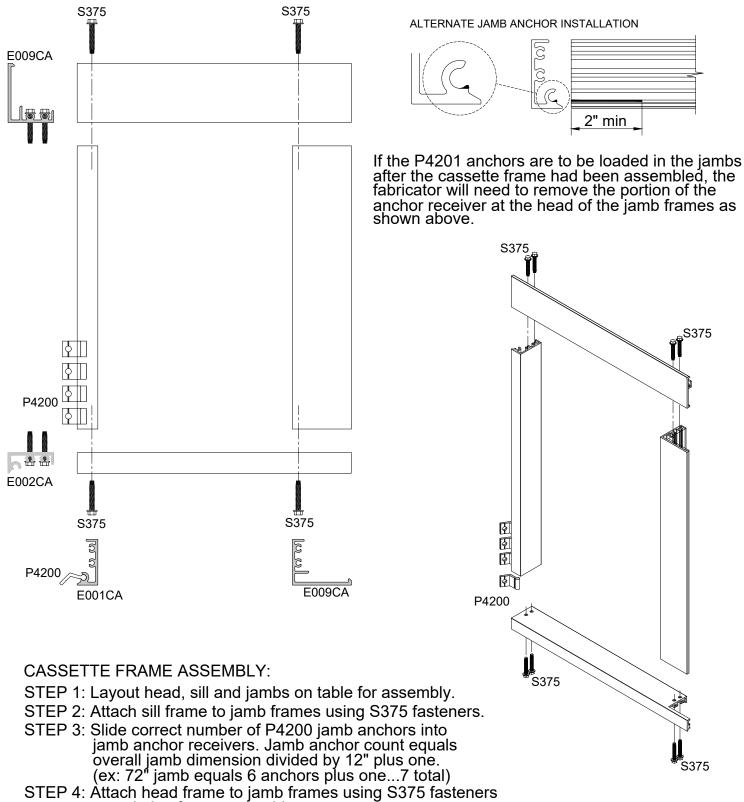
CASSETTE GLASS SIZE CALCULATOR -"Glass-to-Edge" Head / Jamb

Cassette frame overall glass size: Vertical glass size = Back member DLO plus 3-3/8" Horizontal glass size = Back member DLO plus 3-3/8"



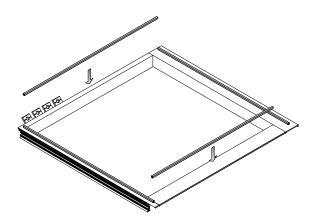


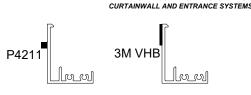
CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Head / Jamb



completing frame assembly.

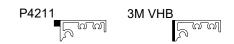






Apply tape at "V" groove and and jamb. Follow DLO at sill and opposite jamb.

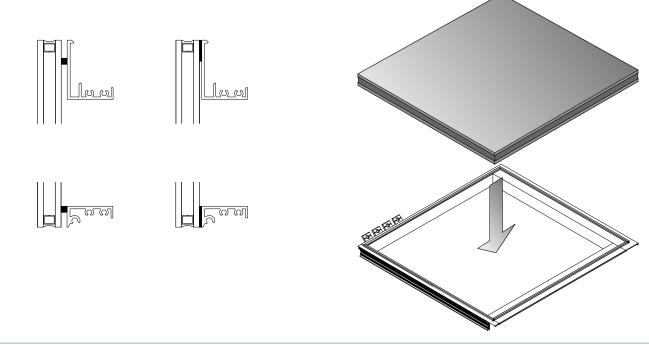
DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT,



NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe, clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe, clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)



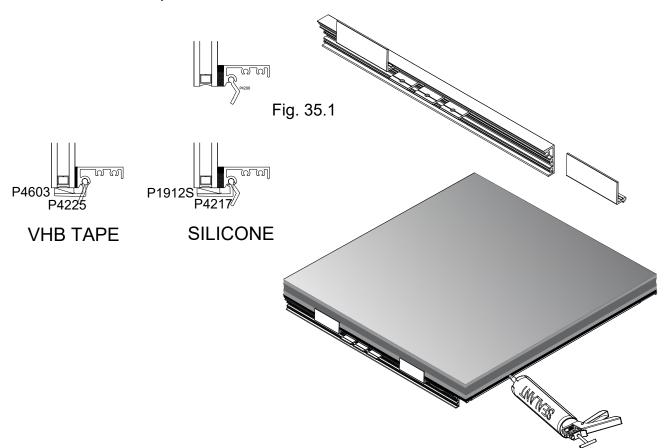


CASSETTE FRAME GLAZING - "Glass-to-Edge" Head / Jamb - cont.

LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

CASSETTE SSG GLAZING

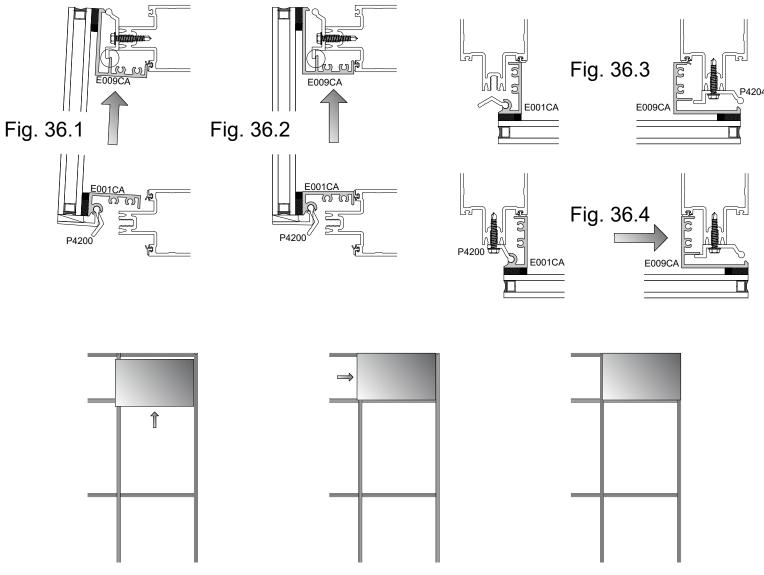
- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Prior to installing setting block chair P4217 install correct number of center anchors P4200 as shown in Fig. 35.1.
- STEP 4: Install setting block chair P4217 and setting block P1912S at quarter points. (Use setting block chair P4225 and P4603 setting block at quarter points when using VHB tape glazing)
- STEP 5: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.





CASSETTE FRAME INSTALLATION - "Glass-to-Edge" Head / Jamb

- NOTE: Cassette framing consisting of both Head and Jamb "Glass-to-Edge" frames must be installed prior to adjacent frames and frame directly below.
- STEP 1: Position the cassette frame at a slight angle to the head framing as shown in Fig.36.1 and off the jamb anchor as shown in Fig. 36.3 with the frame shifted away from the perimeter.
- STEP 2: Roll the sill of the cassette frame towards the sill back member and slide up engaging the head anchor as shown in Fig. 36.2.
- STEP 3: Slide the cassette frame horizontally to engage the jamb anchor as shown in Fig. 36.4.
- STEP 4: Attach sill anchors P4200 at 12" o/c and no more than 2" from ends.
- NOTE: Cassette unit below must use anchor P4200 at sill verses P4202 for installation clearance. Refer to PERIMETER SHEETS DTL. 2B.



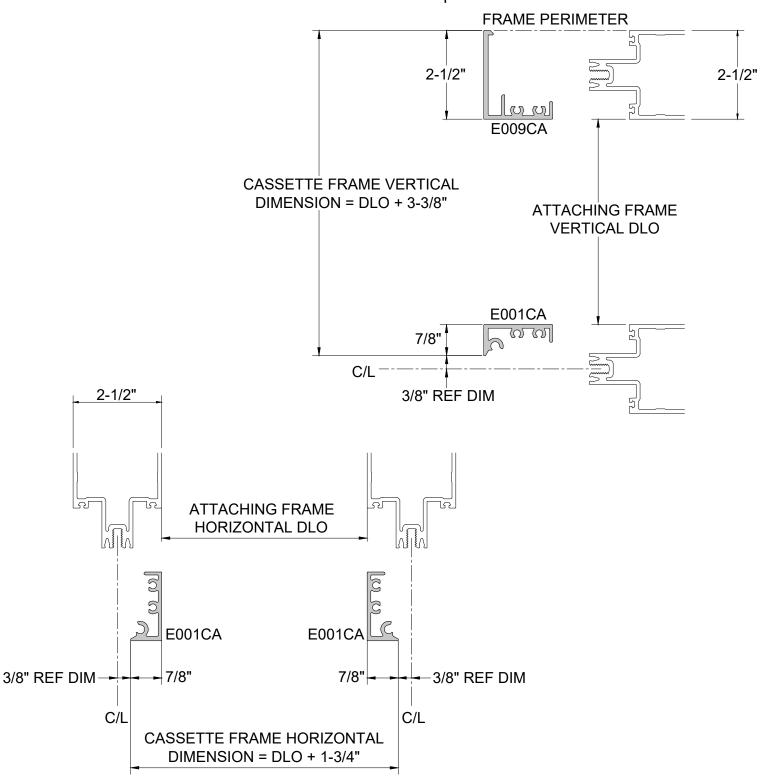
Partial elevation showing cassette frame movements for installation



CASSETTE FRAME SIZE CALCULATOR - "Glass-to-Edge" Head

Cassette frame overall dimension:

Vertical frame dimension: Back member DLO plus 3-3/8" Horizontal frame dimension: Back member frame DLO plus 1-3/4"

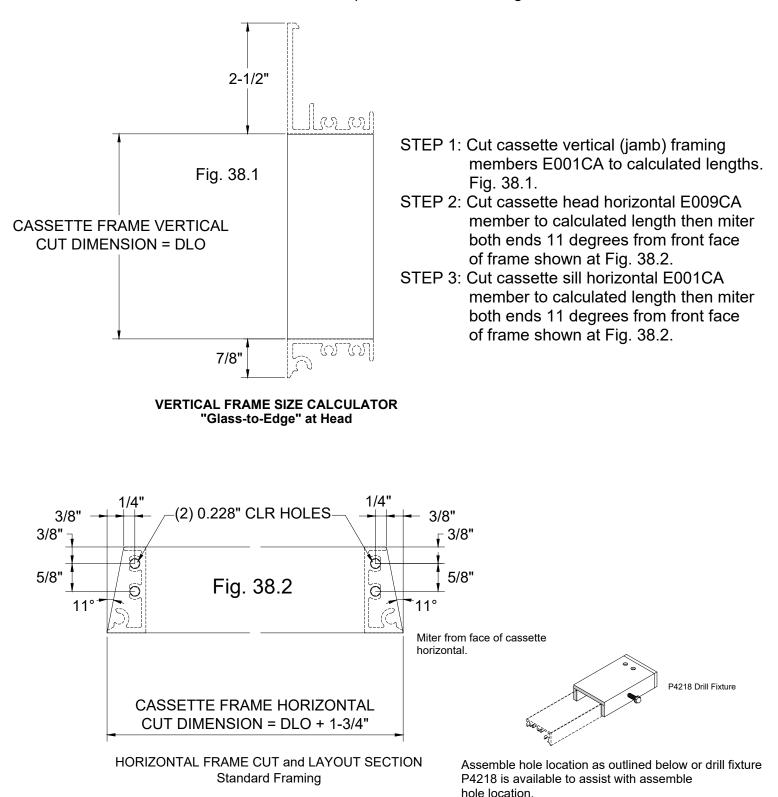


NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.



CASSETTE FRAME CUT SIZE CALCULATOR "Glass-to-Edge" Head

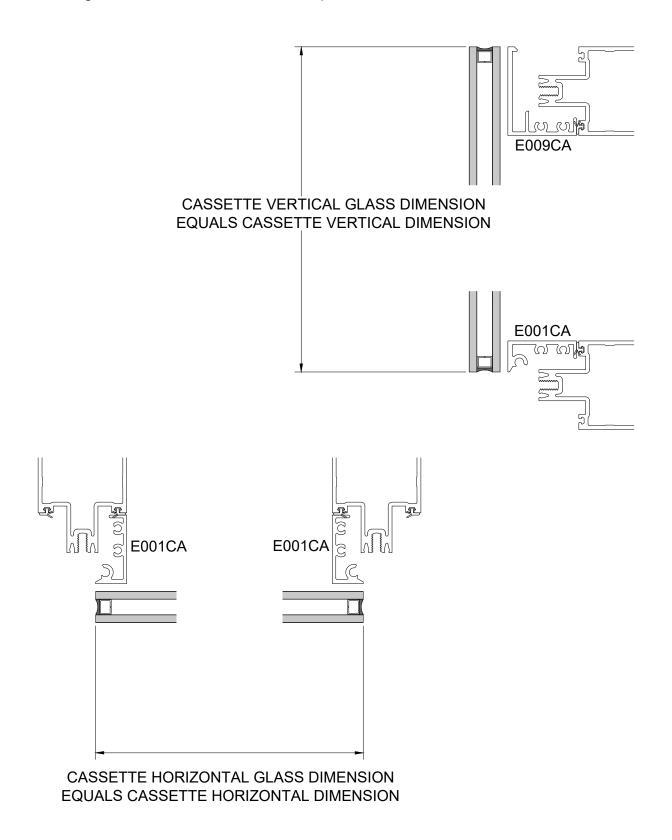
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 1-3/4" of attaching frame



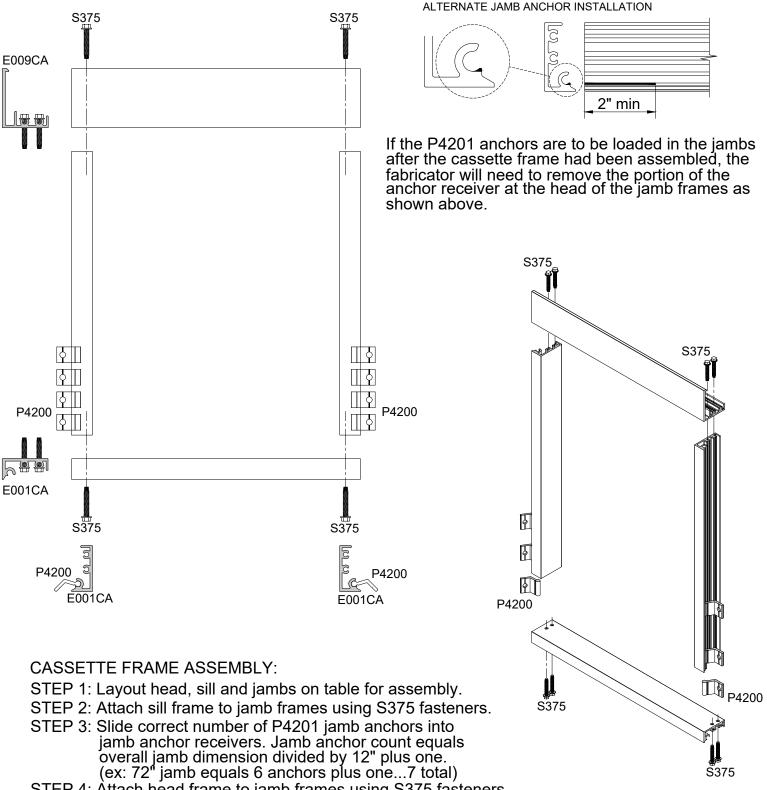


CASSETTE GLASS SIZE CALCULATOR - "Glass-to-Edge" Head

Cassette frame overall glass size: Vertical glass size = Back member DLO plus 3-3/8" Horizontal glass size = Back member DLO plus 1-3/4"



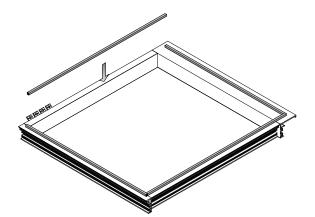
CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Head



STEP 4: Attach head frame to jamb frames using S375 fasteners completing frame assembly.









LEADERS IN ECO-EFFICIENT STOREFRONT,

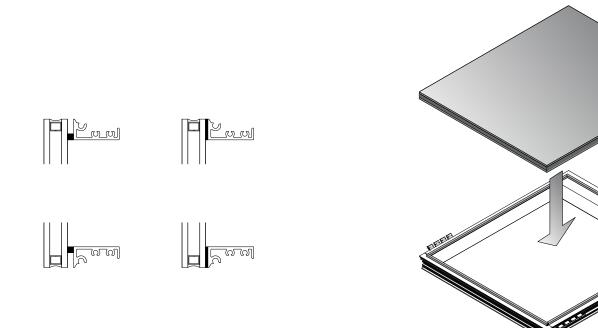
P4211 3M VHB

NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

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CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)

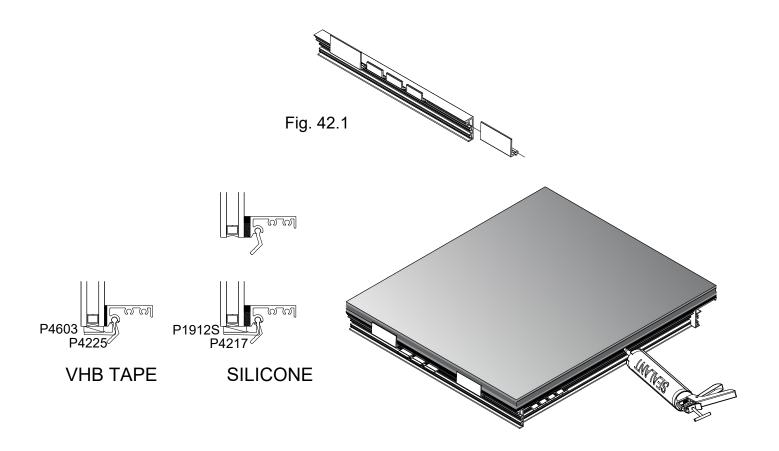




CASSETTE FRAME GLAZING - "Glass-to-Edge" Head - cont.

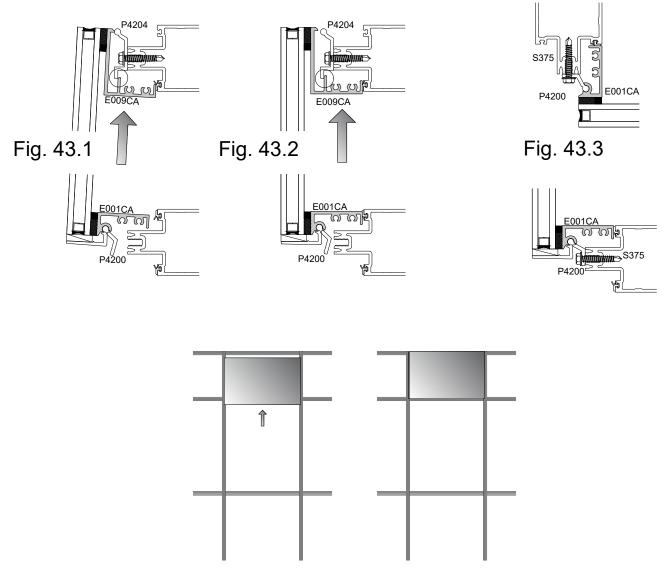
CASSETTE SSG GLAZING

- Note: Use high grade structural silicone for SSG glass attachment to cassette frames. Follow manufactures' recommendations for application...environmental conditions, curing time and handling.
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Prior to installing setting block chair P4217 install correct number of center anchors P4200 as shown in Fig. 42.1.
- STEP 4: Install setting block chair P4217 and setting block P1912S at quarter points.
- STEP 5: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



CASSETTE FRAME INSTALLATION - "Glass-to-Edge" Head

- STEP 1: Position the cassette frame at a slight angle to the head frame back member as shown in Fig. 43.1
- STEP 2: Roll the sill of the cassette frame towards the sill of the back member and slide up engaging the head anchor P4204 as shown in Fig. 43.2.
- STEP 3: Attach sill anchors P4200, Fig. 43.2 at 12" o/c and no more than 2" from ends.
- STEP 4: Attach jamb / sill anchors P4201, Fig 43.3 at 12" o/c and no more than 2" from ends.
- NOTE: Cassette unit below must use anchor P4200 at sill verses P4202 for installation clearance. Refer to PERIMETER SHEETS DTL. 2B.



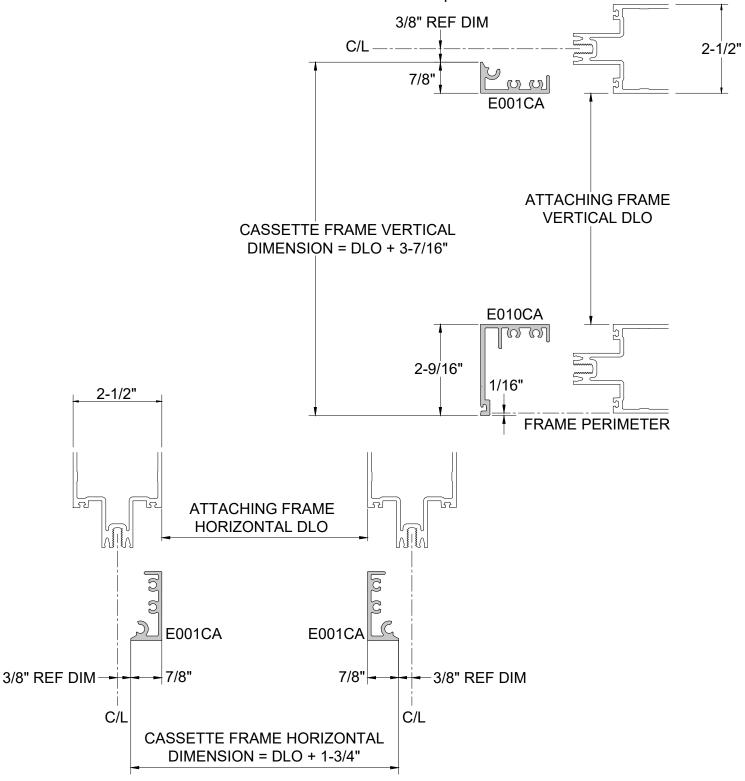
Partial elevation showing cassette frame movements for installation





CASSETTE FRAME SIZE CALCULATOR - "Glass-to-Edge" Sill

Cassette frame overall dimension: Vertical frame dimension: Back member DLO plus 3-7/16" Horizontal frame dimension: Back member frame DLO plus 1-3/4"

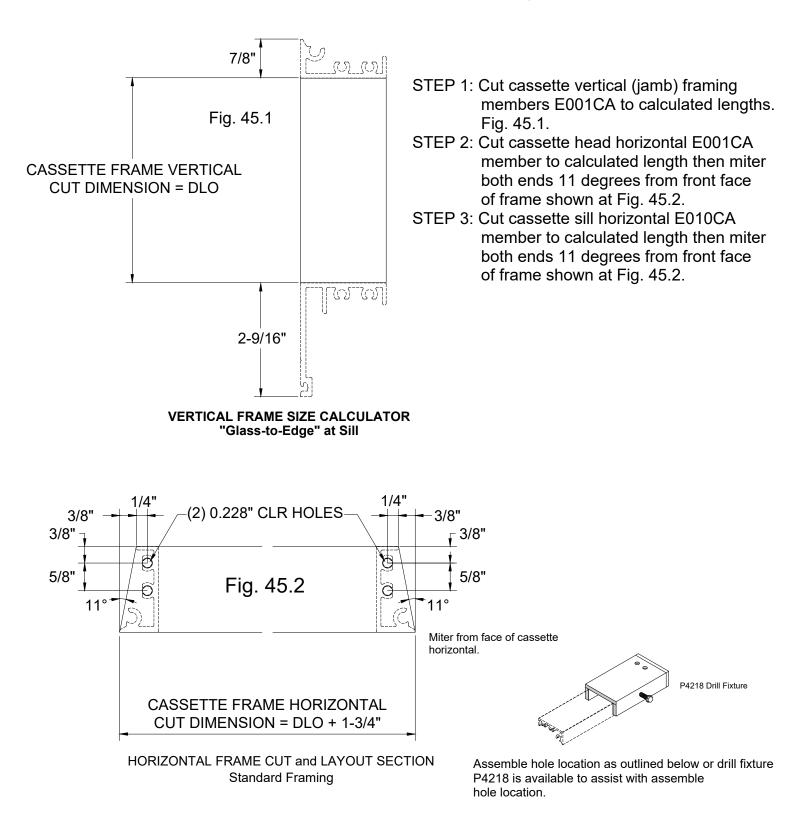


NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.



CASSETTE FRAME CUT SIZE CALCULATOR -"Glass-to-Edge" Sill

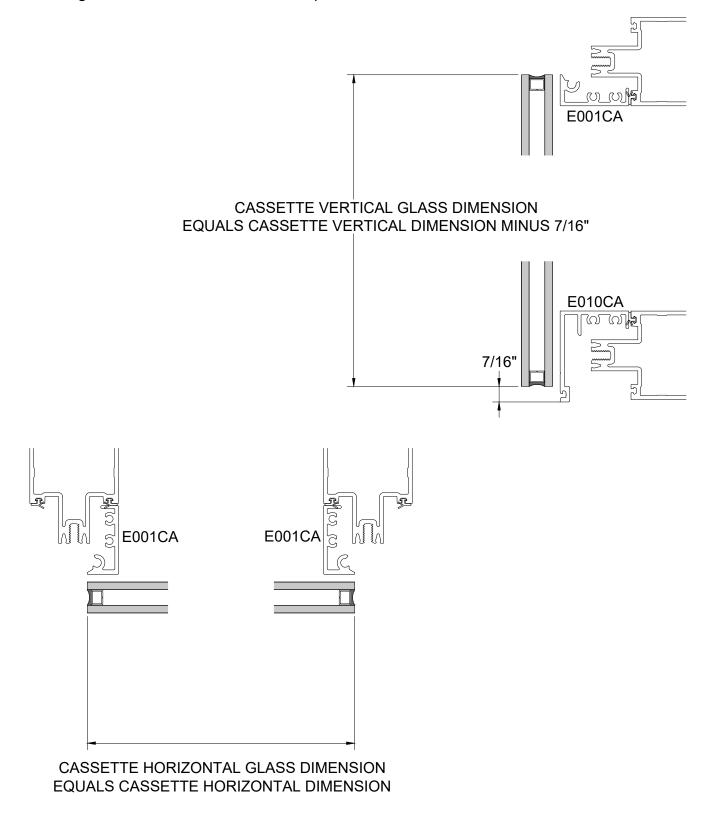
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 1-3/4" of attaching frame





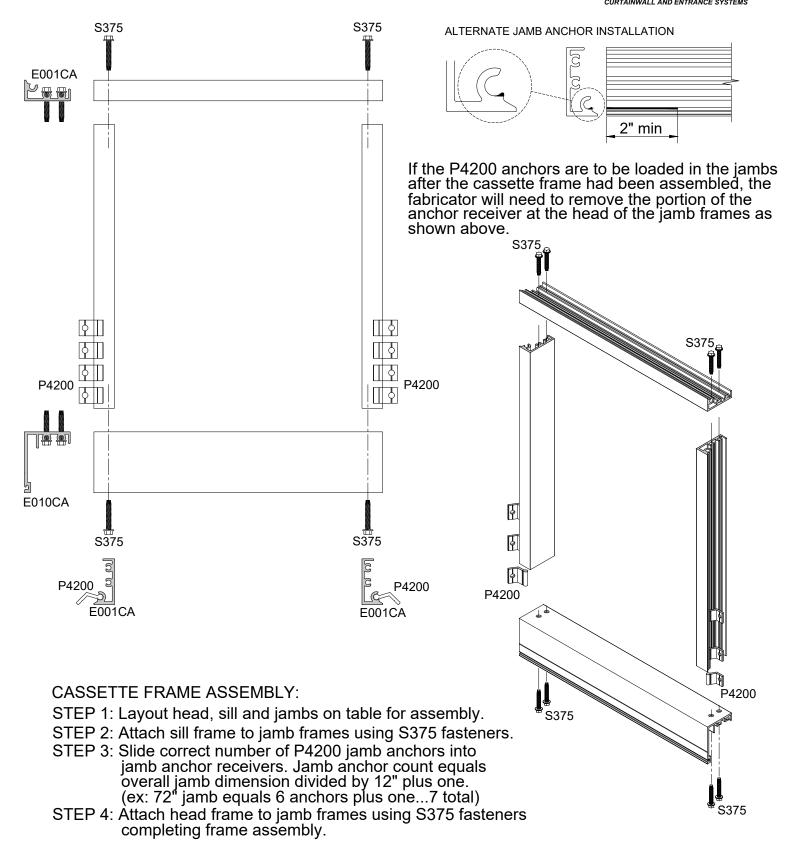
CASSETTE GLASS SIZE CALCULATOR - "Glass-to-Edge" Sill

Cassette frame overall glass size: Vertical glass size = Back member DLO plus 3" Horizontal glass size = Back member DLO plus 1-3/4"



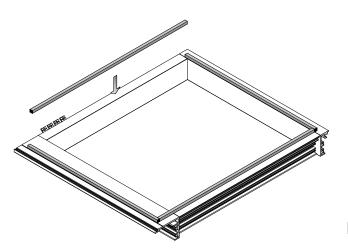
TUBELITE DEPENDABLE LEADERS IN ECO-EFFICIENT STORERONT, CURTAINWALL AND ENTRANCE SYSTEMS

CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Sill

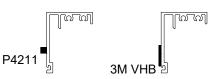




CASSETTE FRAME GLAZING - "Glass-to-Edge" Sill







NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe, clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe, clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)



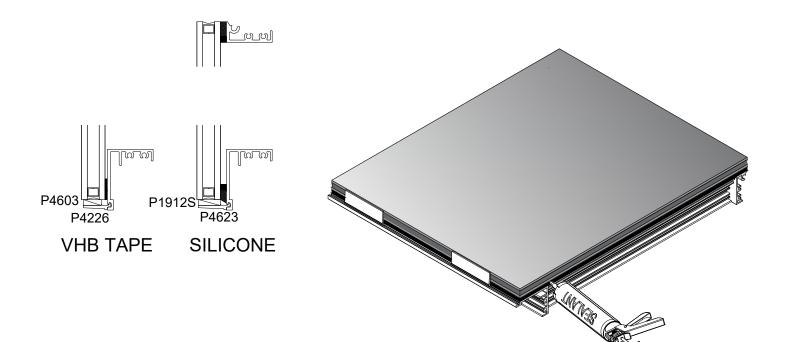
400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS



CASSETTE FRAME GLAZING - "Glass-to-Edge" Sill cont.

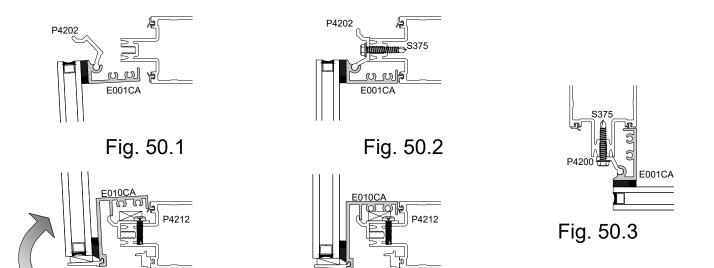
CASSETTE SSG GLAZING

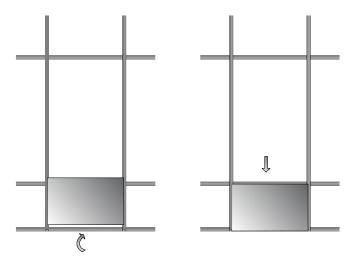
- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Install setting block chair P4623 and setting block P1912S at quarter points. (Use setting block chair P4226 and setting block P4603 at quarter points when using VHB tape glazing.)
- STEP 4: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



CASSETTE FRAME "Glass-to-Edge" Sill Installation

- STEP 1: Install dead load blocking P4212 between sill anchor clips P4222.
- STEP 2: Set sill of assembled cassette frame on anchor clips P4222 and roll head of frame toward back member support framing as shown at Fig. 50.1.
- STEP 3: Attach head anchor P4202 to back member support framing intermediate as shown at Fig. 50.2.
- STEP 4: Continue to attach head anchors and attach jamb anchors P4200 as shown at Fig. 50.3.





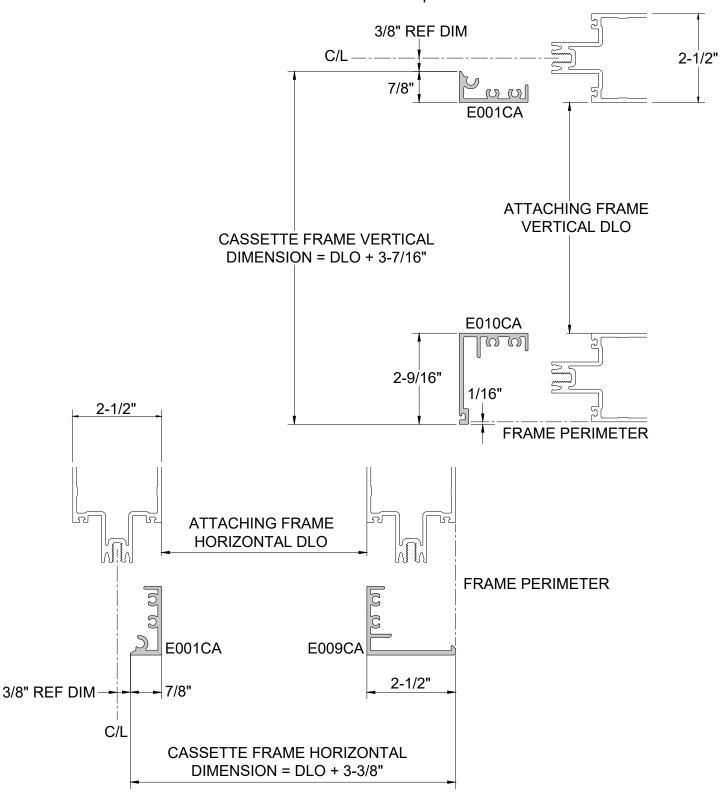
Partial elevation showing cassette frame movements for installation





CASSETTE FRAME SIZE CALCULATOR -"Glass-to-Edge" Sill / Jamb

Cassette frame overall dimension: Vertical frame dimension: Back member DLO plus 3-7/16" Horizontal frame dimension: Back member frame DLO plus 2-3/8"



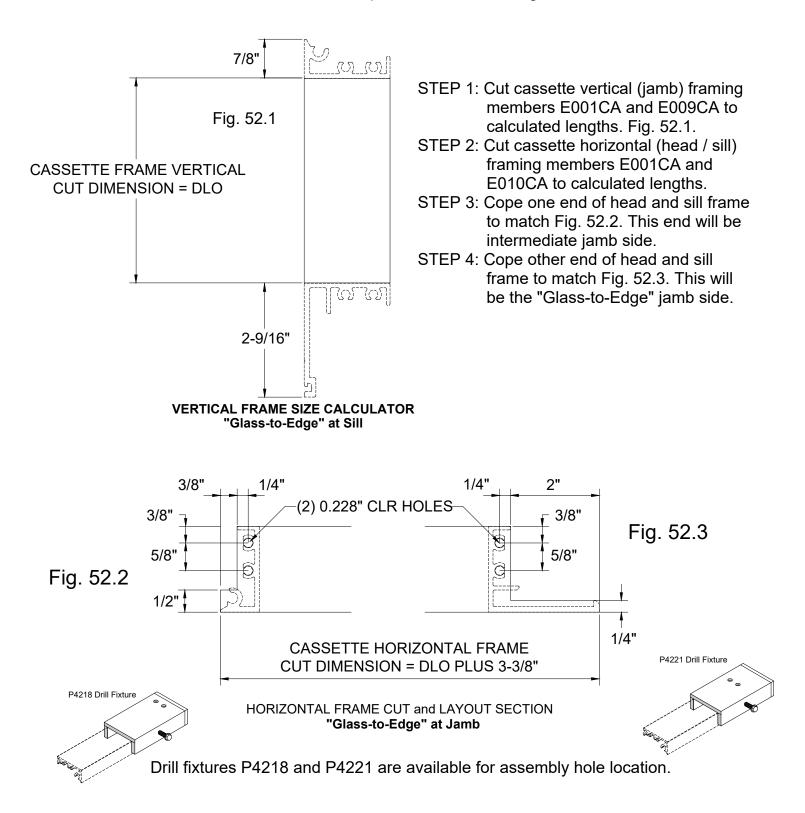
NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.





CASSETTE FRAME CUT SIZE CALCULATOR -"Glass-to-Edge" Sill / Jamb

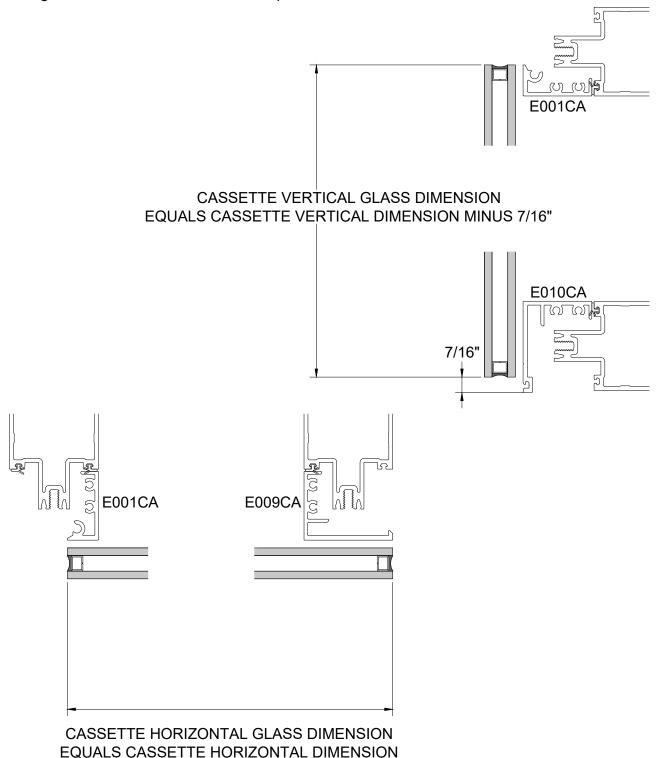
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 3-3/8" of attaching frame





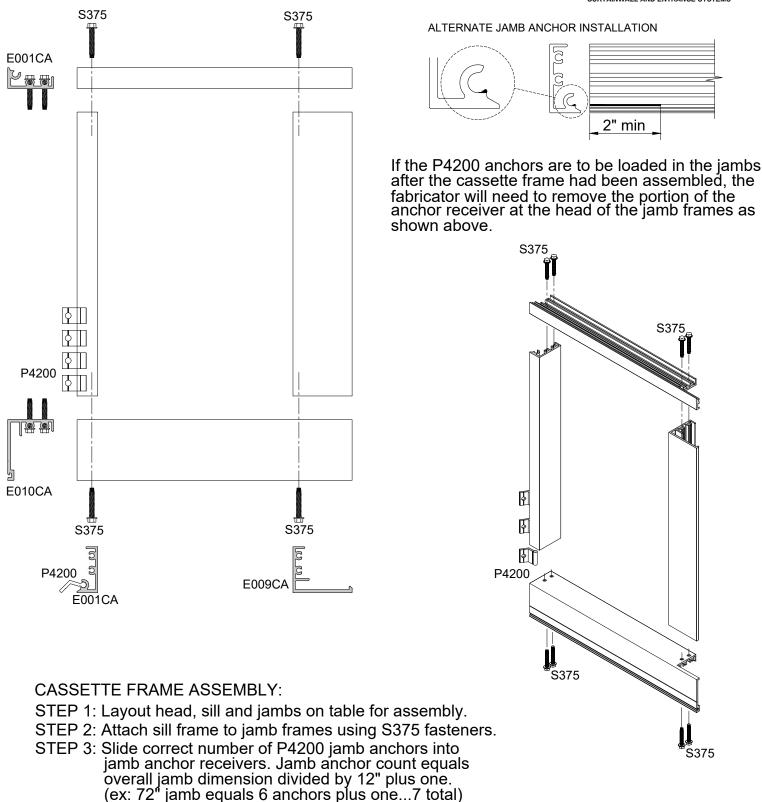
CASSETTE GLASS SIZE CALCULATOR -"Glass-to-Edge" Sill / Jamb

Cassette frame overall glass size: Vertical glass size = Back member DLO plus 3" Horizontal glass size = Back member DLO plus 3-3/8"





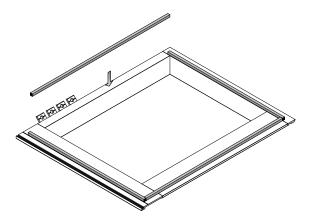
CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Sill / Jamb



STEP 4: Àttach head frame to jamb frames using S375 fasteners completing frame assembly.



CASSETTE FRAME GLAZING - "Glass-to-Edge" Sill / Jamb





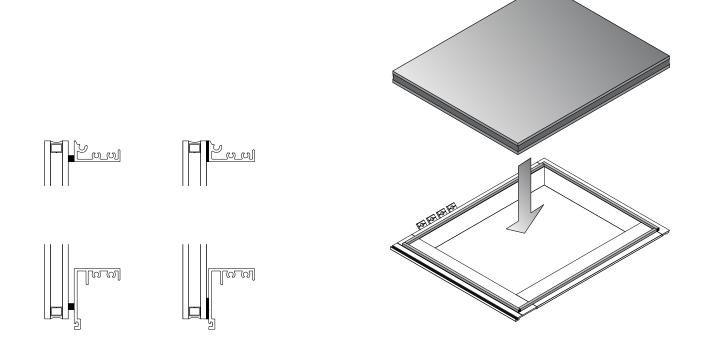
Apply tape at "V" groove at sill and jamb. Follow DLO at head and opposite jamb.



NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe, clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe, clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)



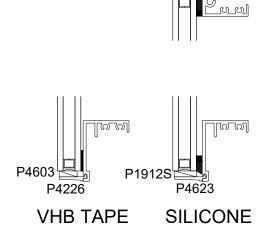
400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS



CASSETTE FRAME GLAZING - "Glass-to-Edge" Sill / Jamb cont.

CASSETTE SSG GLAZING

- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Install setting block chair P4623 and setting block P1912S at quarter points. (Use setting block chair P4226 and setting block P4603 at quarter points when using VHB tape glazing.)
- STEP 4: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



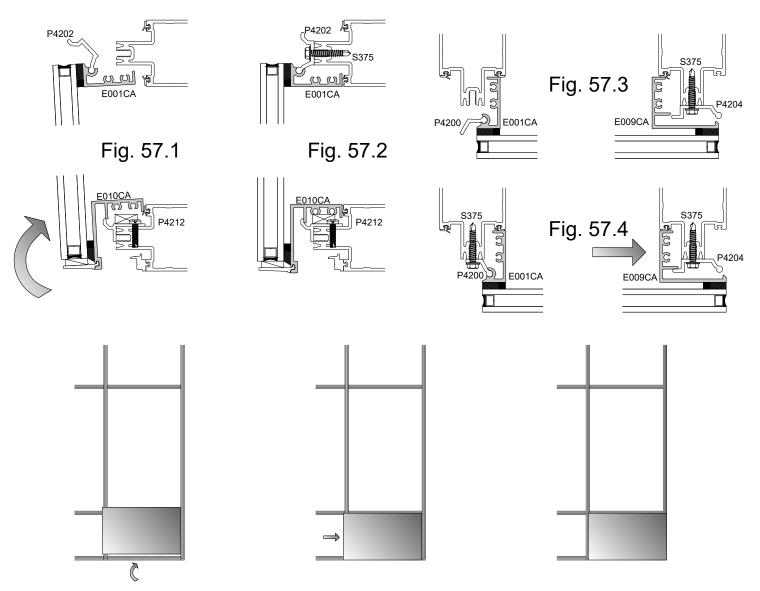


400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS



CASSETTE FRAME INSTALLATION - "Glass-to-Edge" Sill / Jamb

- STEP 1: Install dead load blocking P4213 between sill anchor clips P4223.
- STEP 2: Set sill of assembled cassette frame on anchor clips P4223 as shown at Fig. 57.1. Note location of jamb frame position shown at Fig. 57.3
- STEP 3: Roll head of frame toward back member support framing as shown at Fig. 57.2.
- STEP 4: Once cassette frame is in vertical position slide frame towards "Glass-to-Edge" jamb sliding frame into jamb anchor...see Fig 57.4.
- STEP 5: Install and attach head anchor clips P4202, 12" o/c, maximum 2" from ends. See Fig. 57.2
- STEP 6: Attach pre-installed jamb anchor clips P4200, 12" o/c, maximum 2" from ends.

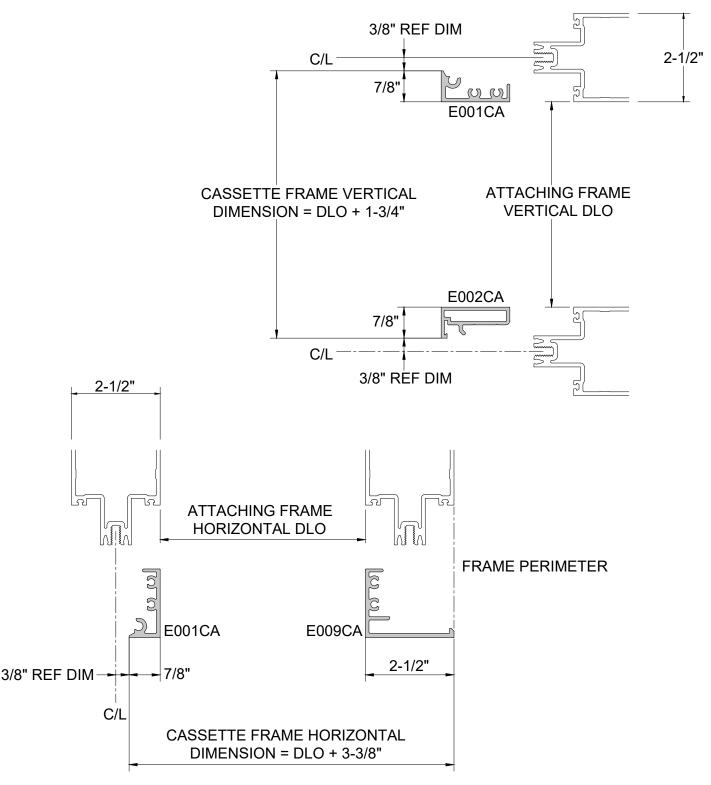


Partial elevation showing cassette frame movements for installation

CASSETTE FRAME SIZE CALCULATOR -"Glass-to-Edge" Jamb

Cassette frame overall dimension:

Vertical frame dimension: Back member DLO plus 1-3/4" Horizontal frame dimension: Back member frame DLO plus 2-3/8"



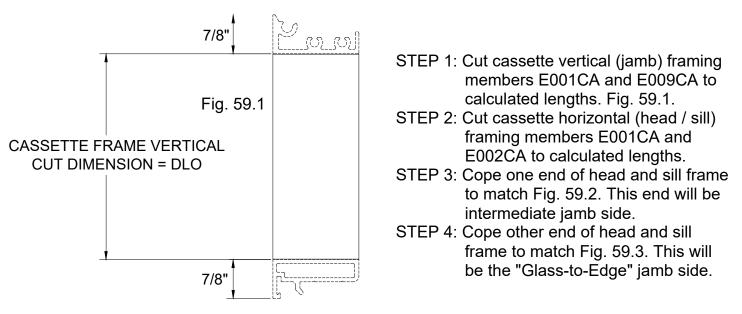
NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.



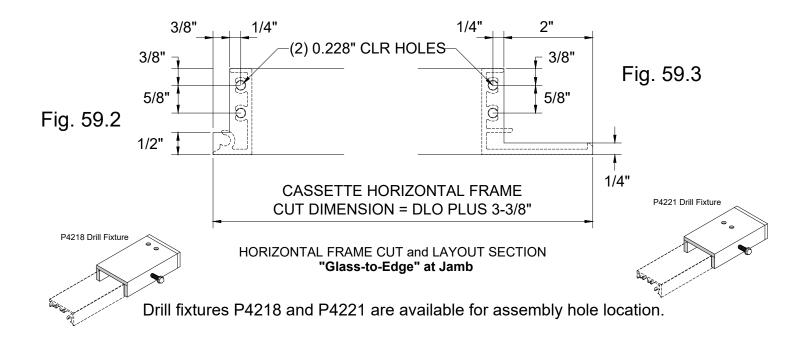


CASSETTE FRAME CUT SIZE CALCULATOR -"Glass-to-Edge" Jamb

Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 2-3/8" of attaching frame



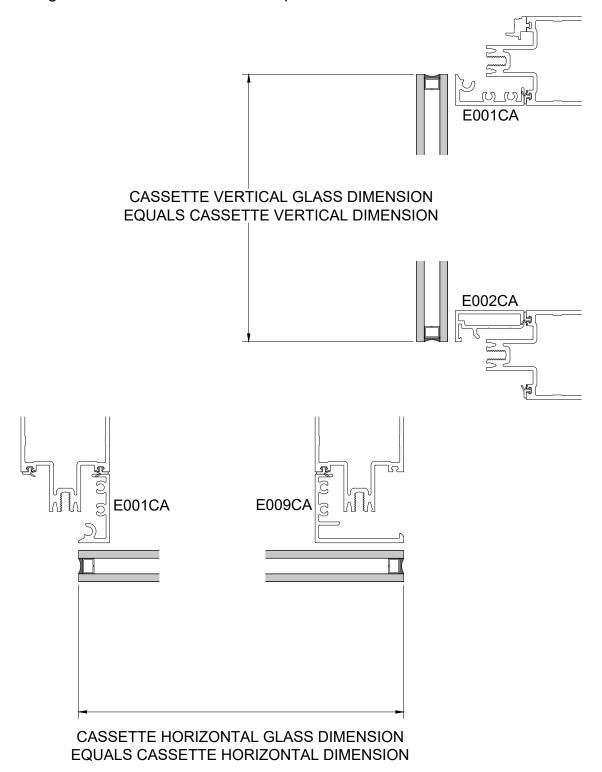
VERTICAL FRAME SIZE CALCULATOR





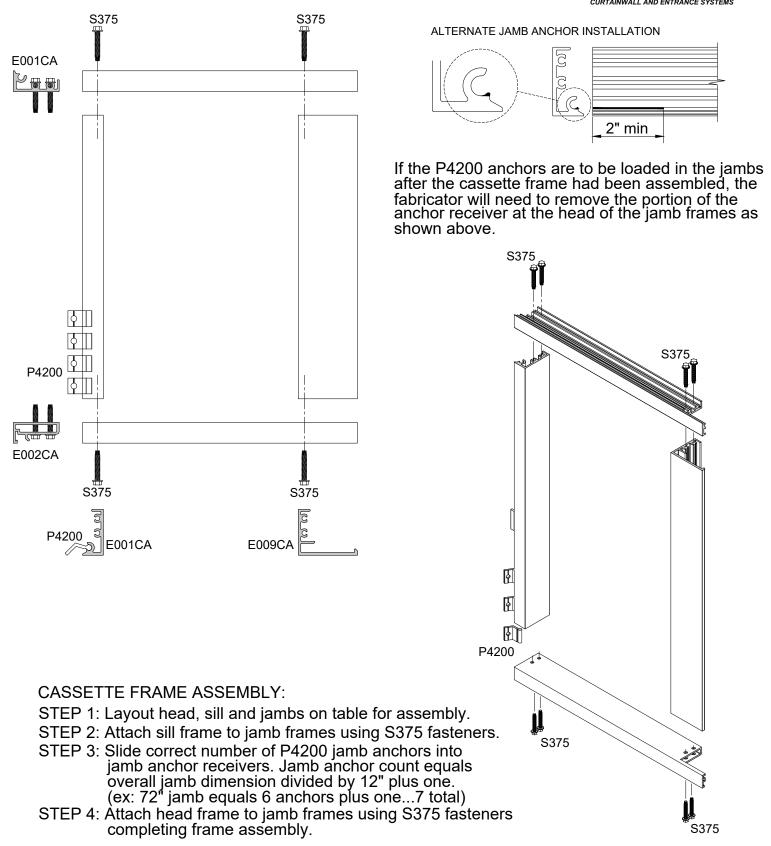
CASSETTE GLASS SIZE CALCULATOR -"Glass-to-Edge" Jamb

Cassette frame overall glass size: Vertical glass size = Back member DLO plus 1-3/4" Horizontal glass size = Back member DLO plus 3-3/8"

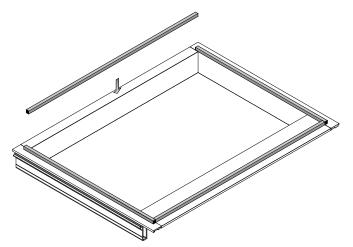


TUBELITE® DEPENDABLE LEADERS IN ECO-EFFICIENT STORERONT, CURTAINWALL AND ENTRANCE SYSTEMS

CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Jamb



CASSETTE FRAME GLAZING - "Glass-to-Edge" Jamb



LEADERS IN ECO-EFFICIENT STOREFRONT. CURTAINWALL AND ENTRANCE SYSTEMS

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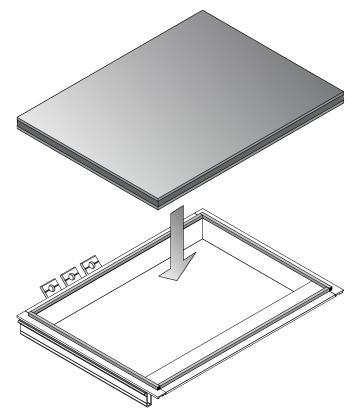
Apply tape at "V" groove at jamb. Follow DLO at head, sill and opposite jamb.

P4211 3M VHB

NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe, clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe, clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)



400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS



CASSETTE FRAME GLAZING - "Glass-to-Edge" Jamb cont.

CASSETTE SSG GLAZING

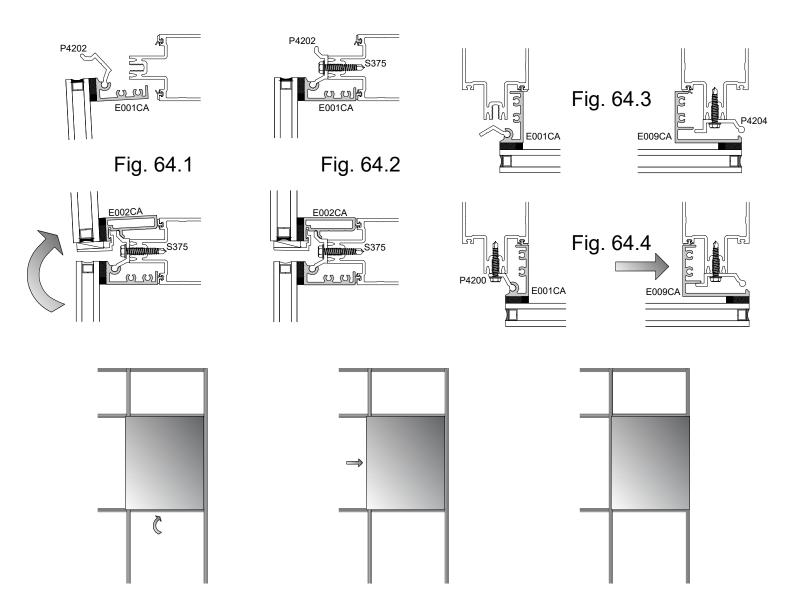
- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Install setting block chair P4215 and setting block P1912S at quarter points. (Use setting block chair P4224 and setting block P4603 at quarter points when using VHB glaizng tape.)
- STEP 4: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.





CASSETTE FRAME INSTALLATION - "Glass-to-Edge" Jamb

- STEP 1: Set sill of assembled cassette frame on anchor clips P4202 as shown at Fig. 64.1. Note location of jamb frame position shown at Fig. 64.3
- STEP 2: Roll head of frame toward back member support framing as shown at Fig. 64.2.
- STEP 3: Once cassette frame is in vertical position slide frame towards "Glass-to-Edge" jamb sliding frame into jamb anchor...see Fig 63.4.
- STEP 4: Install and attach head anchor clips P4202, 12" o/c, maximum 2" from ends. See Fig. 64.2
- STEP 5: Attach pre-installed jamb anchor clips P4200, 12" o/c, maximum 2" from ends.



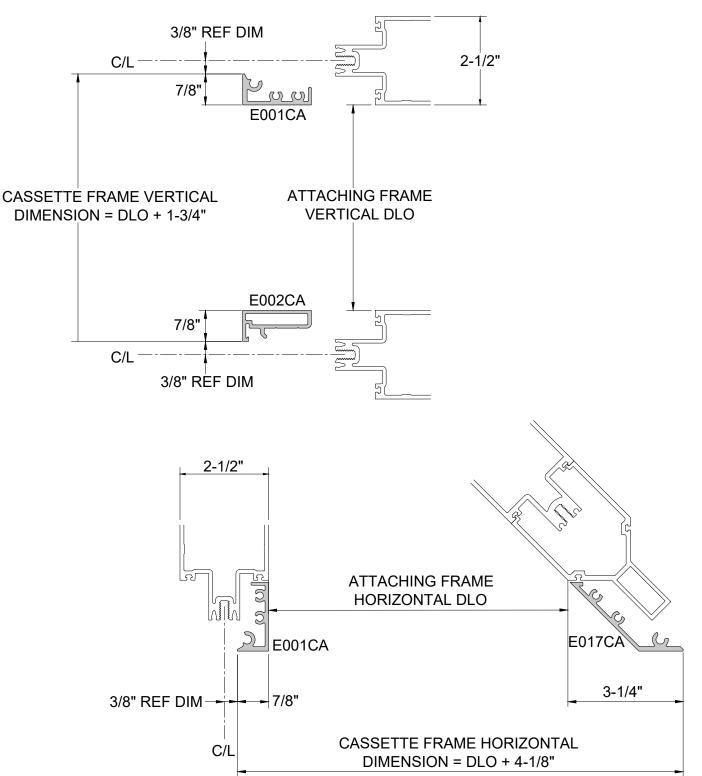
Partial elevation showing cassette frame movements for installation



CASSETTE FRAME SIZE CALCULATOR - Outside Corner

Cassette frame overall dimension:

Vertical frame dimension: Back member DLO plus 1-3/4" Horizontal frame dimension: Back member frame DLO plus 4-1/8"

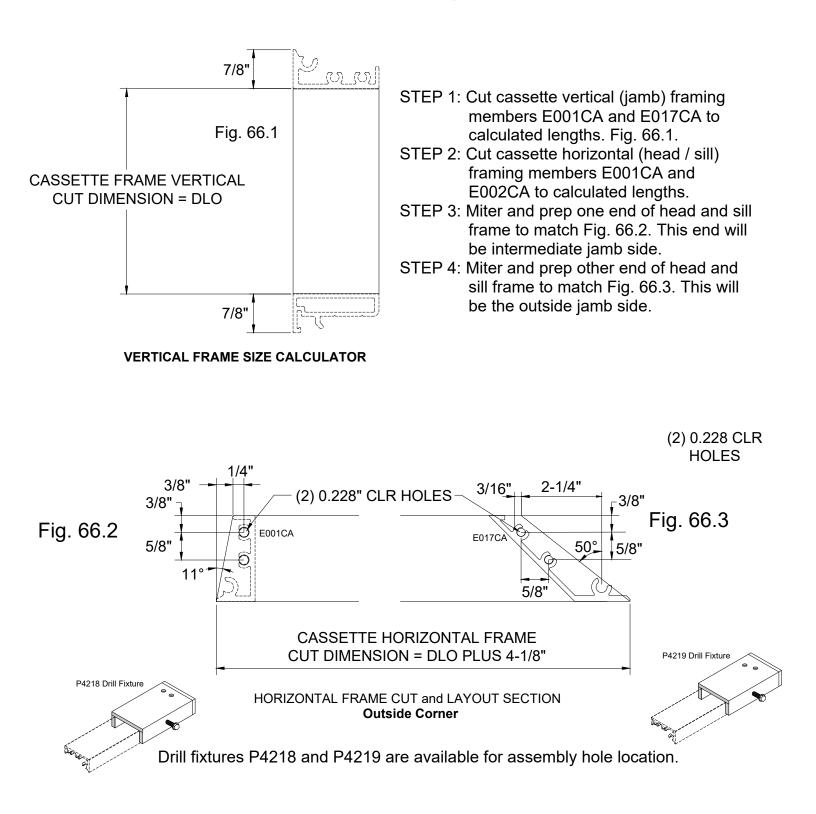


NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.



CASSETTE FRAME CUT SIZE CALCULATOR - Outside Corner

Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO of attaching frame plus 4-1/8"

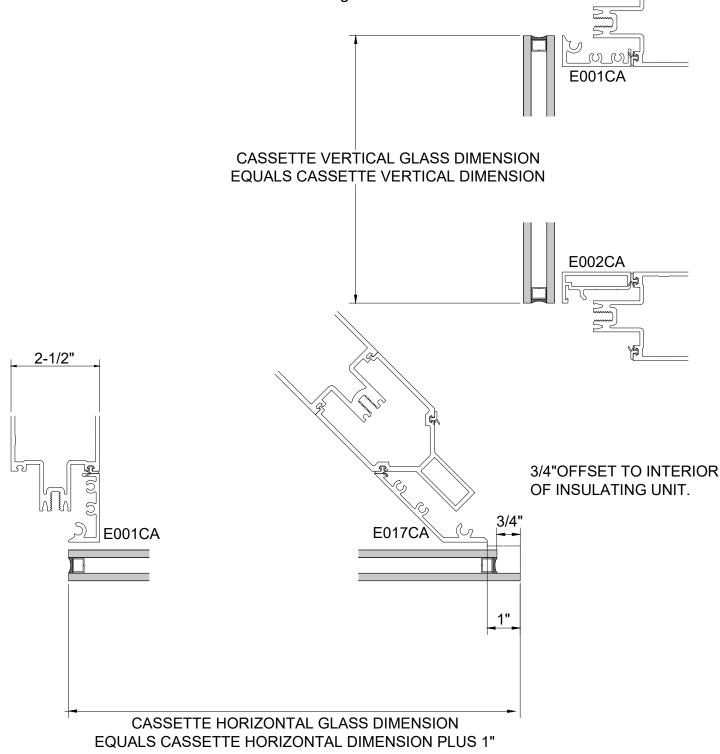




CASSETTE GLASS SIZE CALCULATOR

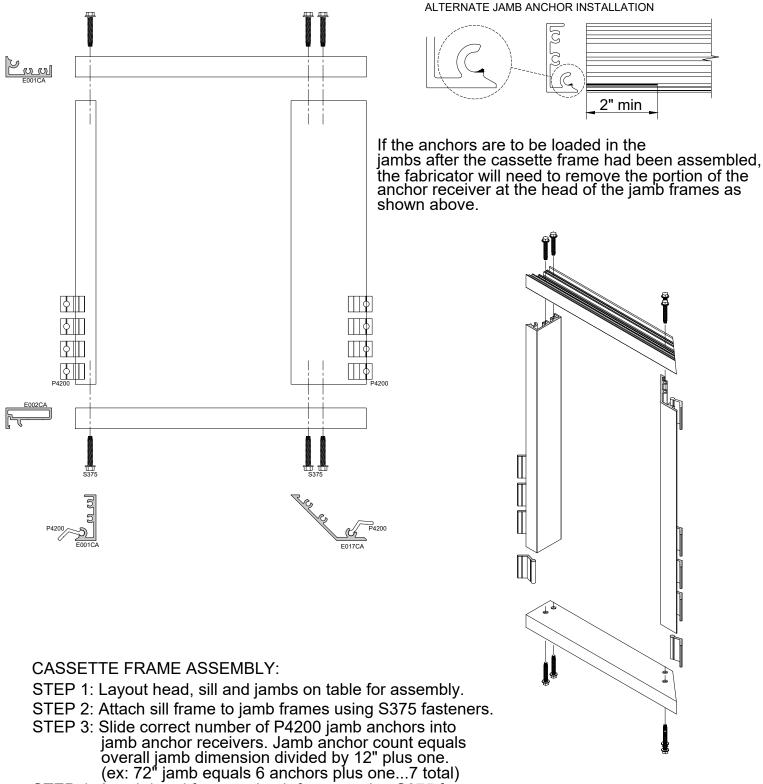
Cassette frame overall glass size: Vertical glass size = Back member DLO plus 1-3/4" Horizontal glass size = Back member DLO plus 5-1/8"

Note: Outside glass lite extends past interior light 3/4". This 3/4" is included in overall horizontal glass size.



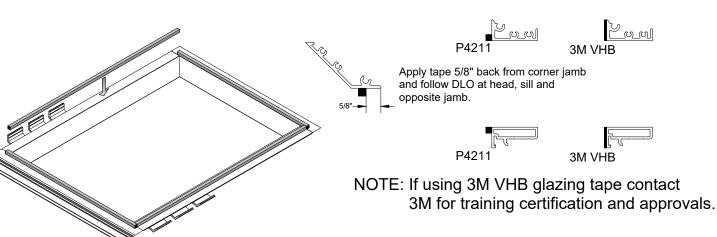
CASSETTE FRAME ASSEMBLY - Outside Corner





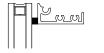
STEP 4: Attach head frame to jamb frames using S375 fasteners completing frame assembly.

CASSETTE FRAME GLAZING - Outside Corner

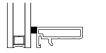


CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)











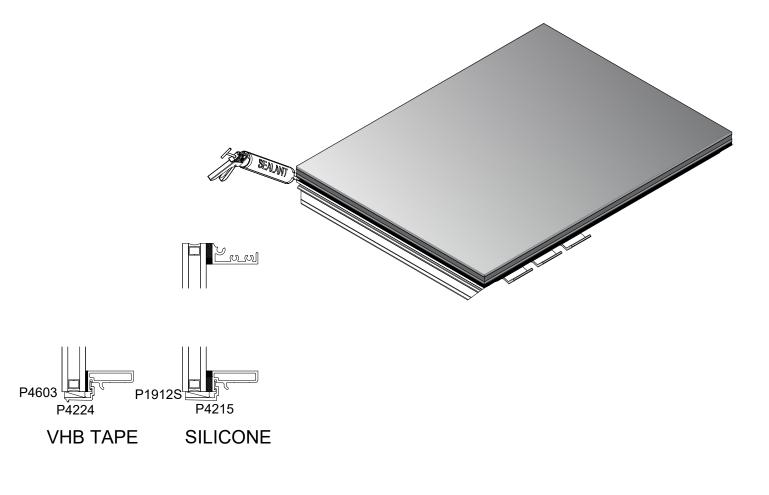
LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS



CASSETTE FRAME GLAZING - Outside Corner, cont.

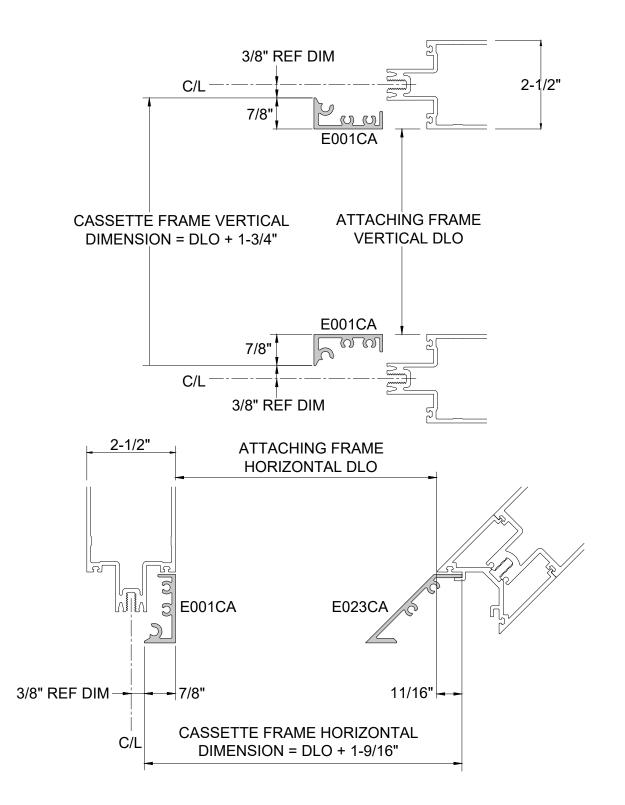
CASSETTE SSG GLAZING

- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Install setting block chair P4215 and setting block P1912S at quarter points. (Use setting block chair P4224 and setting block P4603 at quarter points when using VHB tape glazing.)
- STEP 4: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



CASSETTE FRAME SIZE CALCULATOR - Inside Corner



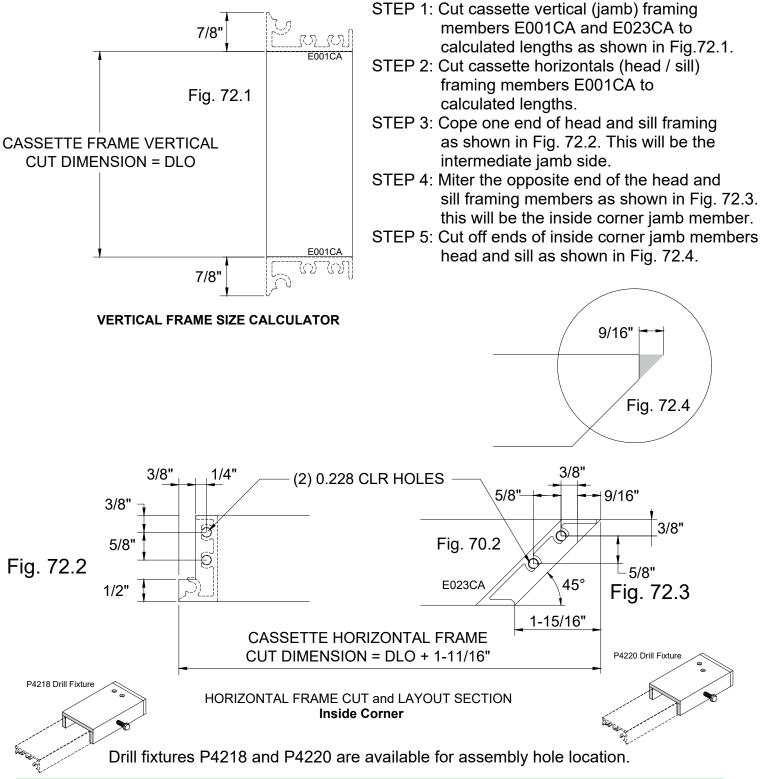


NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.



CASSETTE FRAME CUT SIZE CALCULATOR - Inside Corner

Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame PLUS 1-11/16" Horizontal frame member cut size = DLO of attaching frame



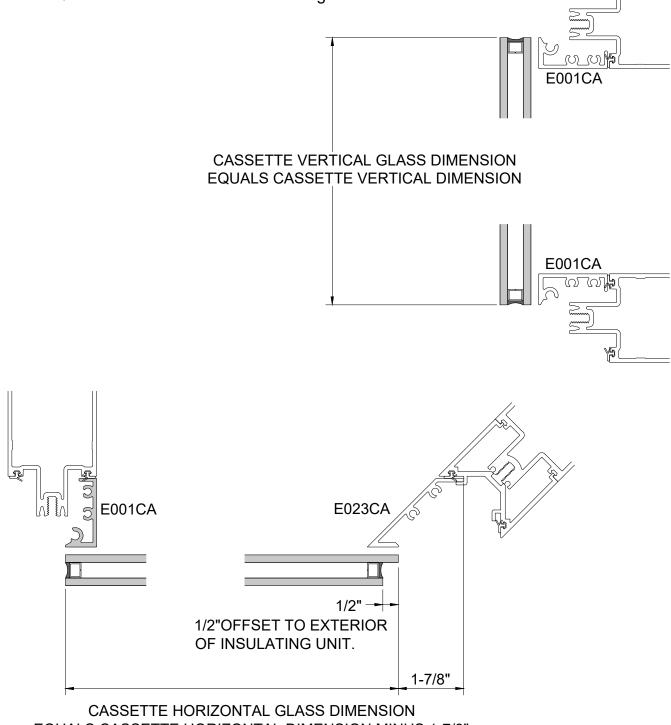
400 4-SIDE SSG CASSETTE on 400CW /T BACK MEMBERS



CASSETTE GLASS SIZE CALCULATOR - Inside Corner

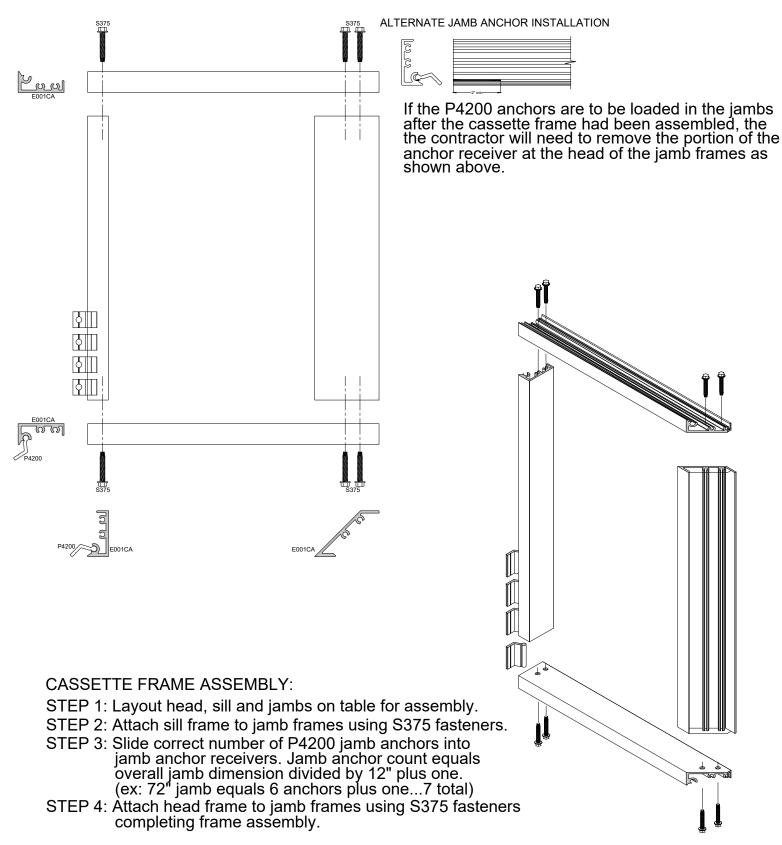
Cassette frame overall glass size: Vertical glass size = Back member DLO PLUS 1-3/4" Horizontal glass size = Back member DLO PLUS 3/4"

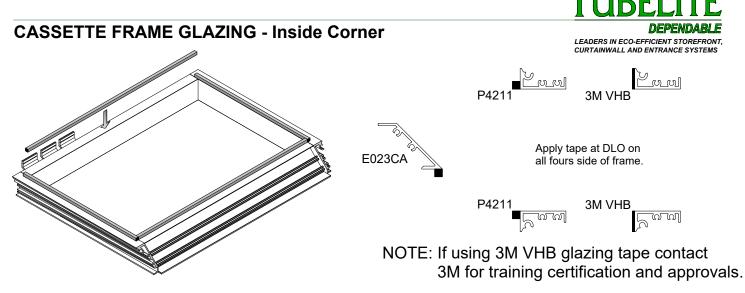
Note: Interior glass lite extends past exterior light 1/2". This 1/2" is included in overall horizontal glass size.





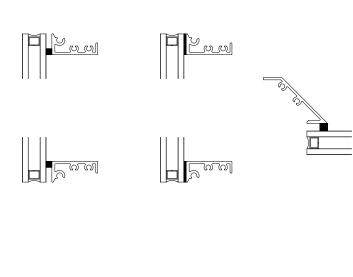
CASSETTE FRAME ASSEMBLY - Inside Corner

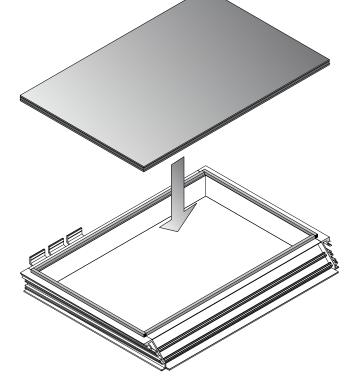




CASSETTE GLAZING PREP and GLASS INSTALLATION

- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 4: Using Isopropyl 70/30 mixture two towel wipe clean surface of glass that will come in contact with silicone.
- STEP 5: Set glass to frame aligning edges of glass with frame. (note: glass size will vary, balance overage / under around frame)



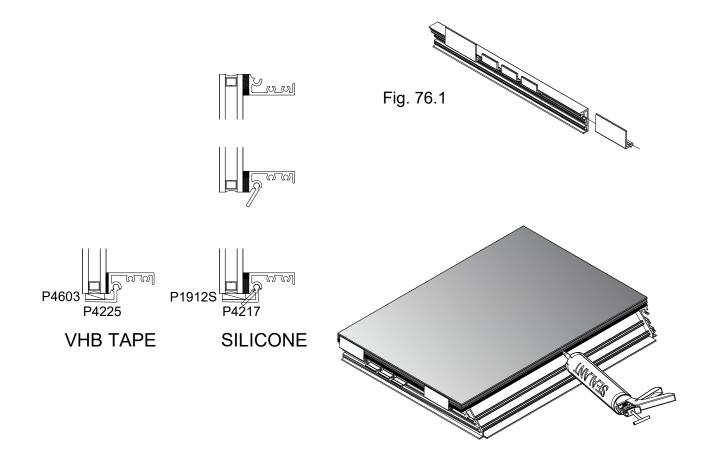


CASSETTE FRAME GLAZING - Inside Corner cont.



CASSETTE SSG GLAZING

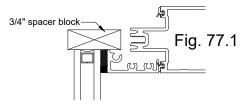
- Note: Use high grade structural silicone for SSG glass attachment to cassette frames. Follow manufactures' recommendations for application...environmental conditions, curing time and handling.
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Prior to installing setting block chair P4217 install correct number of center anchors P4200 as shown in Fig. 76.1.
- STEP 4: Install setting block chair P4217 and setting block P1912S at quarter points.
- STEP 5: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



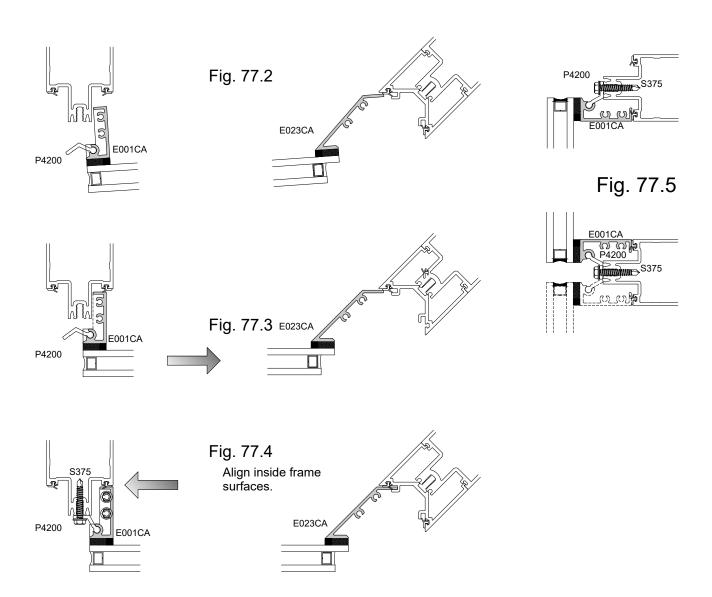
400 4-SIDE SSG CASSETTE on 400CW /T BACK MEMBERS

CASSETTE FRAME INSTALLATION - Inside Corner

- STEP 1: Placing a 3/4" spacer block on top of the lower unit will assist in setting up proper Cassette position. Refer to Fig. 77.1
- STEP 2: Place Cassette frame inside corner jamb in position at inside corner insert. Refer to Fig. 77.2.
- STEP 3: Rotate cassette frame towards back member framing to align with spacer gaskets. Refer to Fig. 77.3.
- STEP 4: Slide cassette frame towards inside corner into receiver until interior cassette frame surface is flush with back back member interior surface. Refer to Fig. 77.4
- STEP 5: Attach head anchor clips P4200 at 12" o/c and no more 2" from each end. Attaching the head anchor first will support the cassette frame dead load. Refer to Fig. 77.5.
- STEP 6: Continue anchoring anchor clips P4200 at sill and jamb.



DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

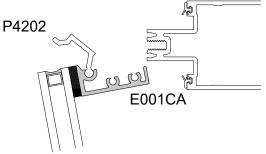


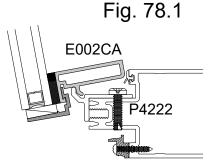
400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS

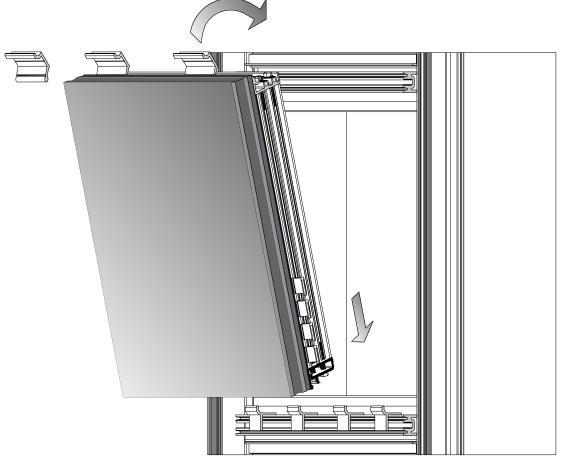
CASSETTE FRAME INSTALLATION - Typical Framing

TYPICAL CASSETTE FRAME INSTALLATION

- Step 1: Select Cassette frame to be installed and install determined head anchor clips P4200 or P4202. (P4200 head anchor used at final top unit)
- Step 2: Set Cassette frame on sill dead load clip P4222 as shown at Fig. 78.1.
- Step 3: Roll Cassette frame towards back framing member.
- Step 4: Secure head anchor clip at center of Cassette frame. (note: cassette frame is now secure in opening)







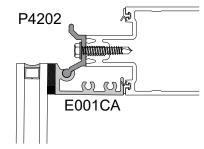


CASSETTE FRAME INSTALLATION - Typical Framing

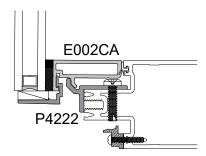
LADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

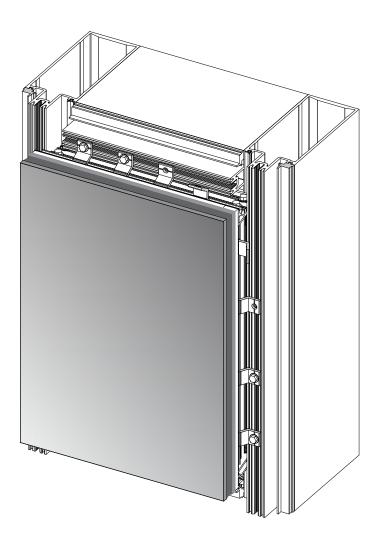
TYPICAL CASSETTE FRAME INSTALLATION - cont.

- Step 4: Secure head anchor clip at center of Cassette frame. (note: cassette frame is now secure in opening)
- Step 5: Continue installing head anchor clips at 12" o/c and and no more than 2" from ends of Cassette frame.
- Step 6: Slide Cassette jamb anchors P4200 into position starting at the top of the jamb working towards sill of unit.



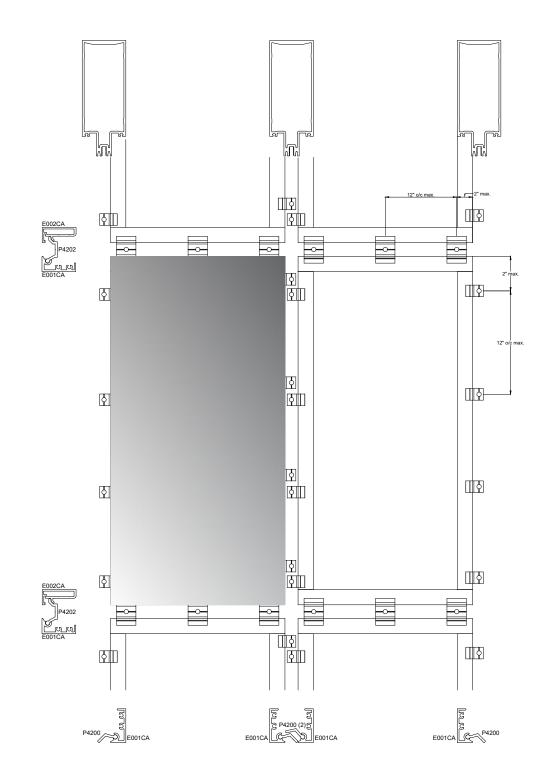








CASSETTE FRAME INSTALLATION - Typical Anchor Pattern

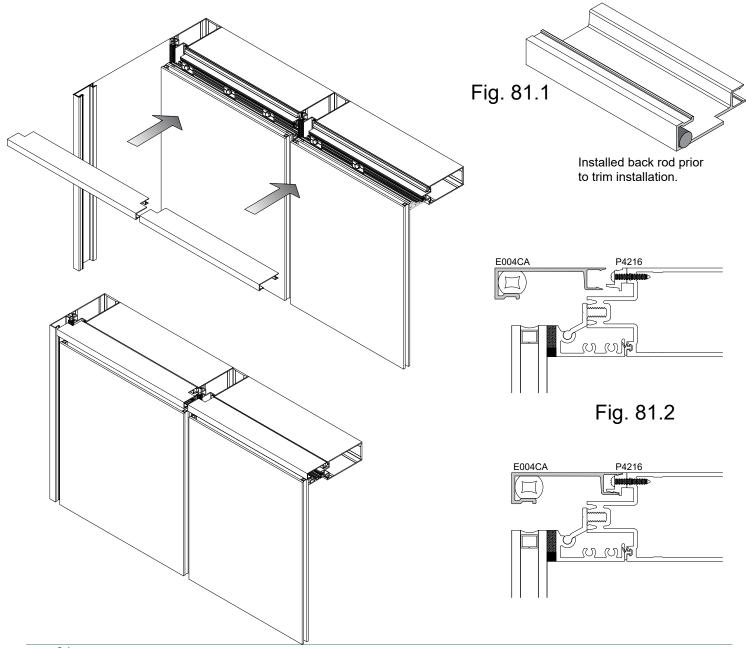


TUBELLITE® DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

CASSETTE FRAME PERIMETER CLOSURE TRIM INSTALLATION

OPTIONS ONE: Perimeter closure trim in designed for continual runs vertically and coped between curtain wall stems horizontally.

- STEP 1: Measure horizontally between curtain wall stems, subtract 1/8" and cut closure E004CA to length.
- STEP 2: Remove / cope back of E004CA closure trim to clear curtain wall stem as shown in Fig. 81.1.
- STEP 3: Install section of back rod behind front face as shown in Fig. 81.1.
- STEP 4: Using a rubber mallet and piece of wood blocking place E004CA trim over P4216 PVC separator and tap into place until trim snaps over P4216, Fig. 81.2.
- STEP 5: Repeat step 4 and install vertical closure trim.

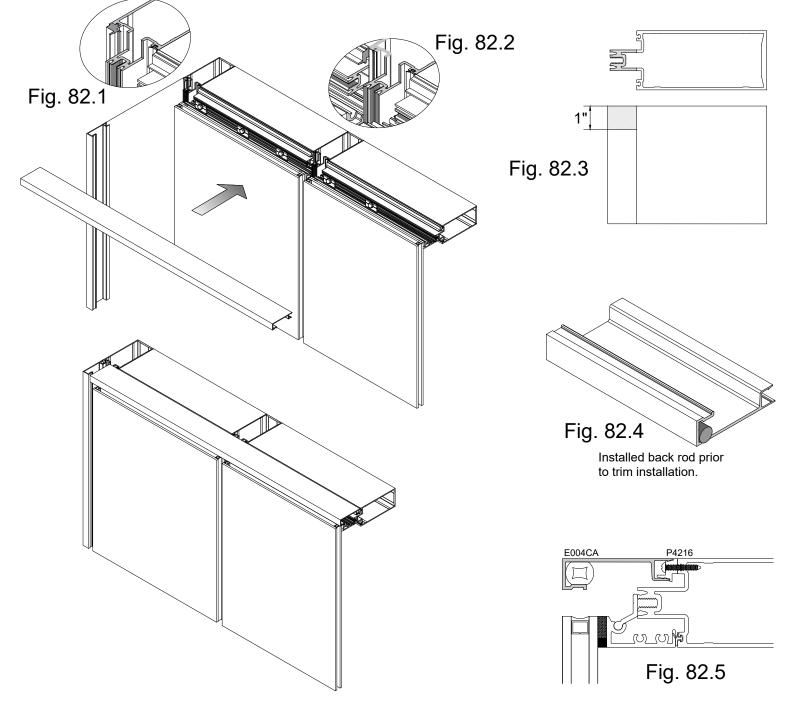




CASSETTE FRAME PERIMETER CLOSURE TRIM INSTALLATION

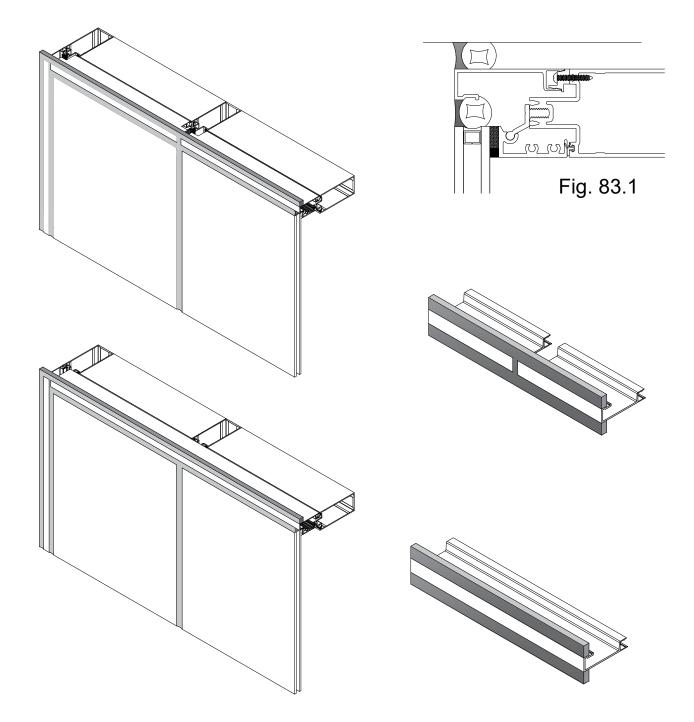
OPTION TWO: Perimeter closure trim in designed for continual runs at VERTICAL and at HORIZONTAL.

- STEP 1: Verify copes are present at vertical stems, heads and sills of back members shown at Fig. 82.1 & Fig. 82.2 as dimensioned Fig. 82.3
- STEP 2: Install section of back rod behind front face as shown in
 - Fig. 82.4. at horizontal and vertical splice.
- STEP 3: Using a rubber mallet and piece of wood blocking place E004CA trim over P4216 PVC separator and tap into place until trim snaps over P4216, Fig. 82.5.
- STEP 4: Repeat step 3 and install vertical closure trim.



CASSETTE FRAME PERIMETER SEALING

- NOTE: Use silicone or silicone compatible sealant at perimeter seal and glass. Follow manufacturers' recommendations for application, environmental conditions and curing time.
- STEP 1: Using isopropyl 70/30 mixture two towel wipe clean all surfaces to receive perimeter seal.
- STEP 2: Install sealant at perimeter, between glass and closure trim to fill all voids. See Fig. 83.1.

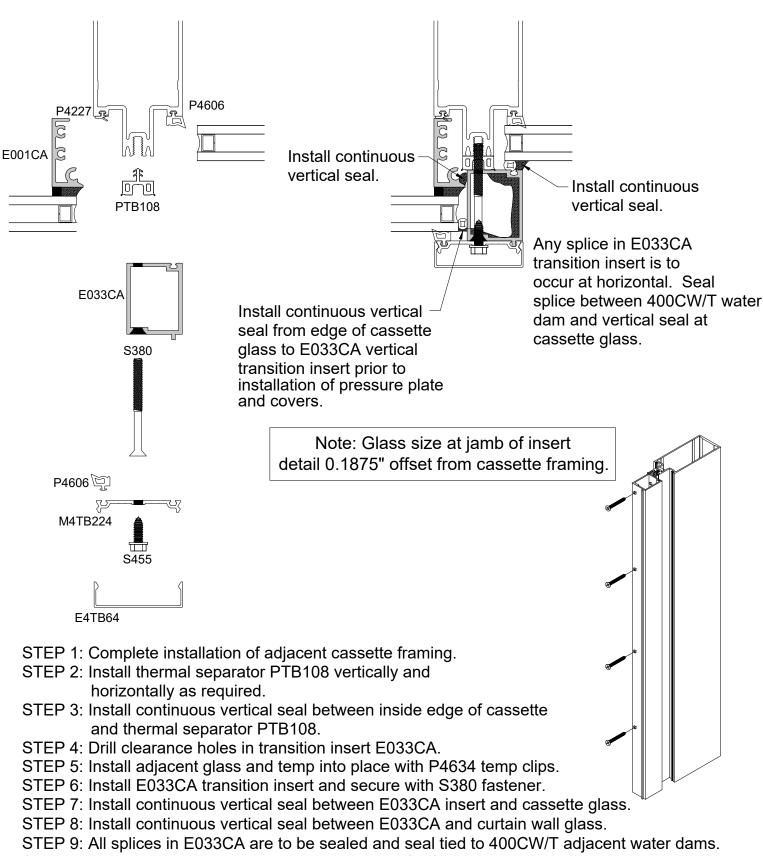


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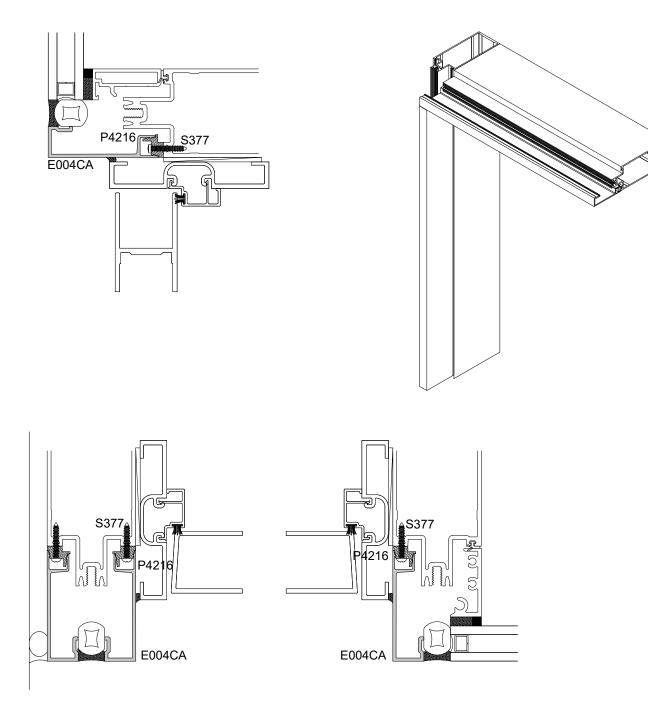
CASSETTE FRAME - SSG Cassette to Captured PP Transition



STEP 10: Install pressure plates and covers per 400CW/T installation manual.

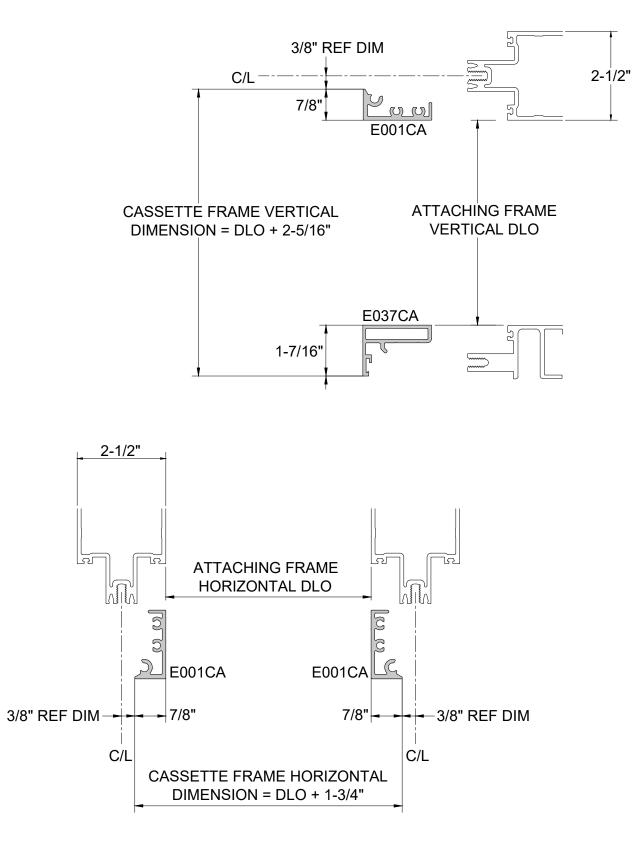


CASSETTE FRAME - Door Frame Trim Out



- STEP 1: Using fastener S377, install PVC separator horizontally and vertically around door frame location.
- STEP 2: Cut E004CA closure to length. NOTE: Horizontal trim to run across vertical closure.
- STEP 3: Using a rubber mallet and piece of wood blocking tap E004CA over P4216 until closure snaps into place.
- STEP 4: Install door framing and door stops per door installation manual.

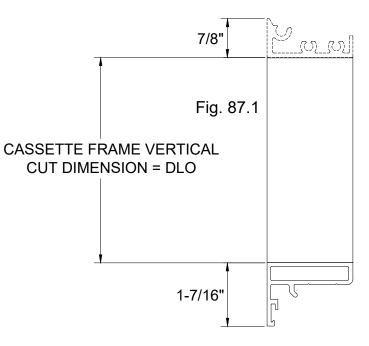




NOTE: Cassette frames sizes based on 400CW/T back members or 2-1/2" profile back members.

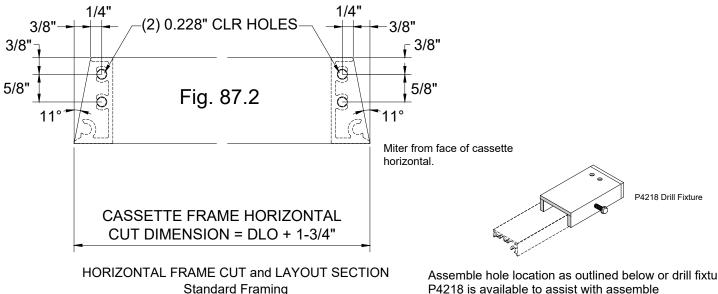


Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 2-5/16" of attaching frame



VERTICAL FRAME SIZE CALCULATOR

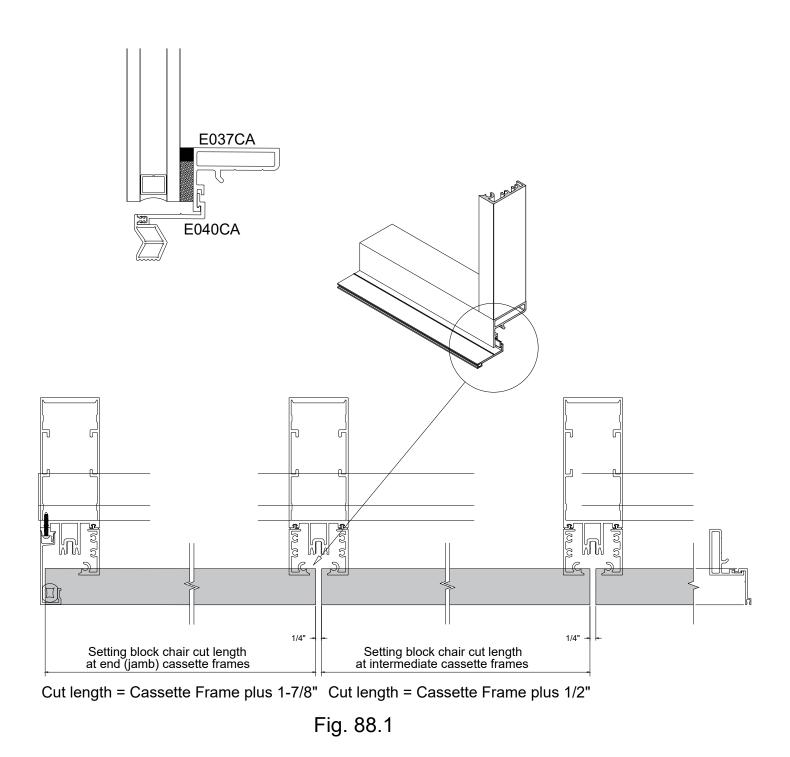
- STEP 1: Cut vertical (jamb) frame E001CA to calculated vertical cut size, Fig. 87.1.
- STEP 2: Cut horizontal head frame E001CA to calculated cut size mitering each end 11 degrees each end as shown at Fig. 87.2.
- STEP 3: Cut horizontal sill frame E002CA to calculated cut size mitering each end 11 degrees each end as shown at Fig. 87.2.



Assemble hole location as outlined below or drill fixture P4218 is available to assist with assemble hole location.



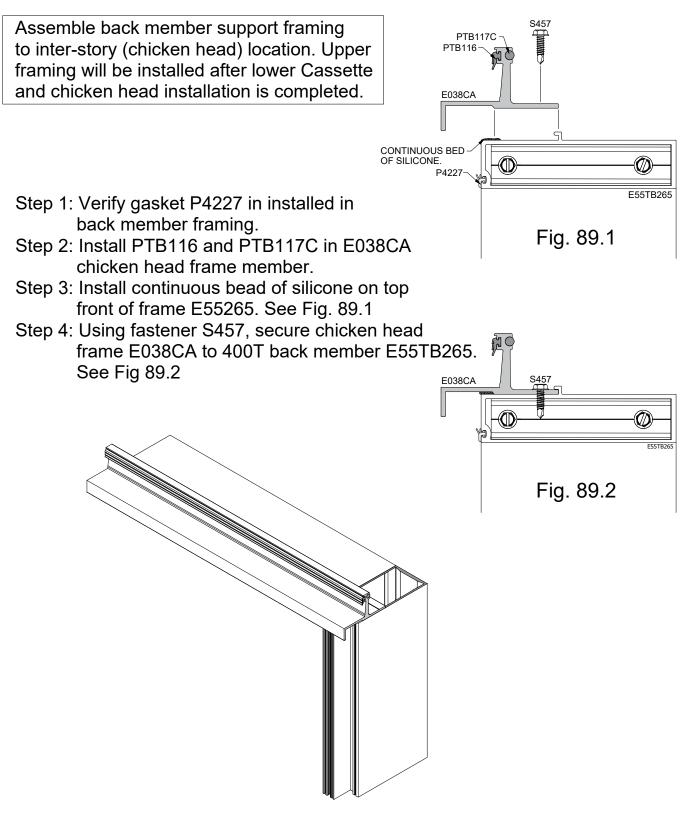
Setting Block Chair Cut Length: E040CA setting block chair at the inter-story movement (chicken head) runs continuous to receive PTB134 expanding gasket. Setting block chair cut length calculations below at Fig. 88.1



400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS



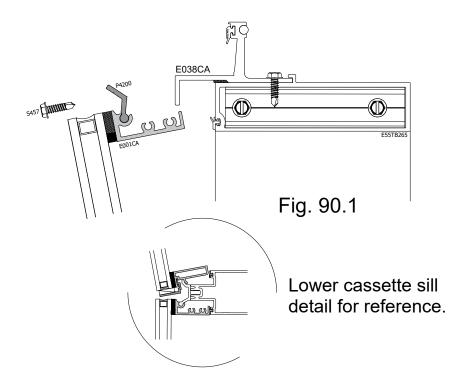
NOTE: Refer to 400T Curtain Wall installation manual for assembly and installation of 400T back member support framing.

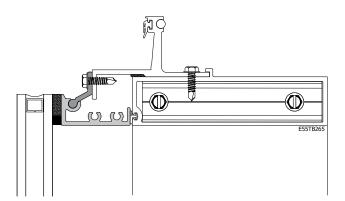






Step 1: Install pre-glazed cassette frame to E038CA using P4200 pivot anchor (12" on center). Secure with S457 fasteners. See Fig. 90.1

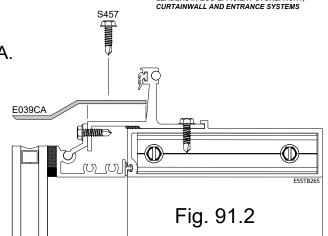


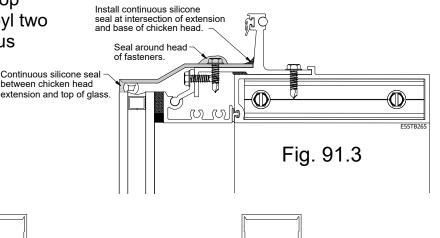


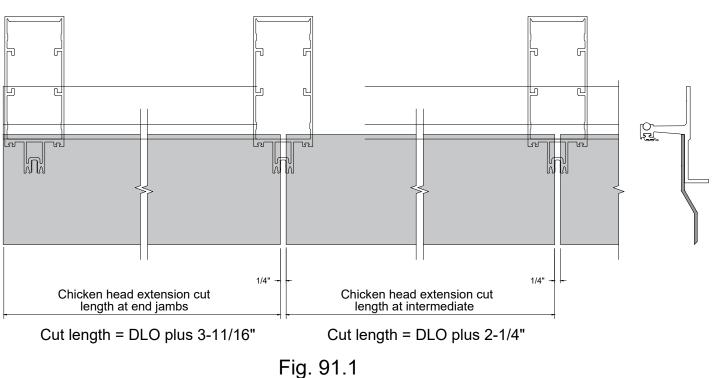
400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS

CASSETTE FRAME INSTALLATION - InterStory Movement

- Step 1: Refer to Fig. 91.1 below for cut length calculator for chicken head extender E039CA.
- Step 2: Install chicken head sill extender E039CA and secure with fastener S457 12" on center. Clean metal around fastener heads using Isopropyl two towel wipe and seal heads . See Fig. 91.2.
- Step 3: Wipe clean metal at extender / base of chicken head using Isopropyl two towel wipe and install continuous of silicone to seal intersection. See Fig. 91.3.
- Step 4: Clean metal at front bottom of chicken head extender and top of outer glass light with Isopropyl two towel wipe and install continuous silicone bead. Fig. 91.3

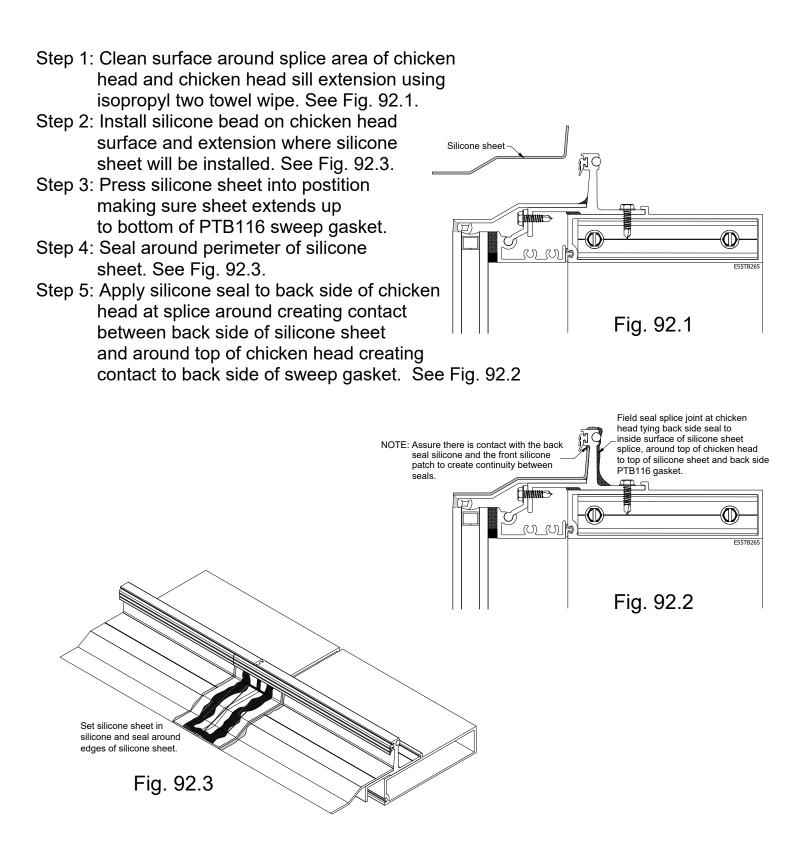






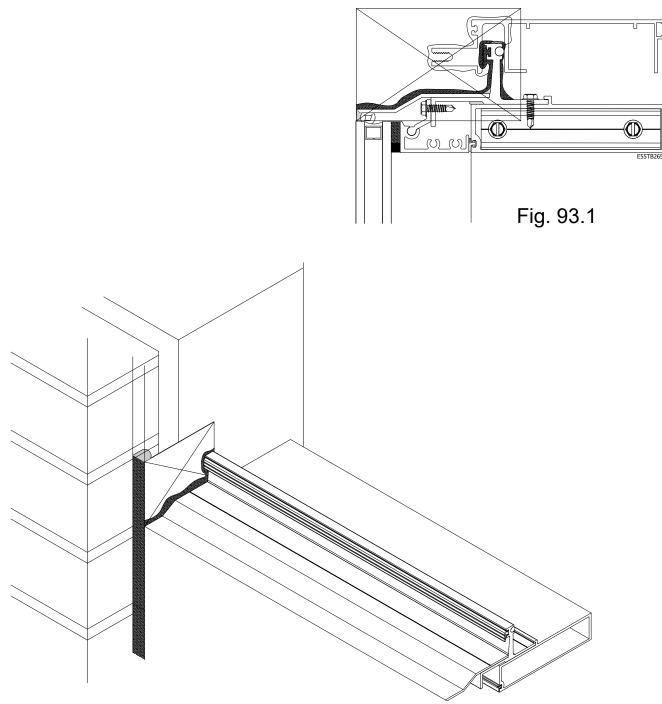








Step 1: Install end caps to ends of chicken head and chicken head extension and seal end cap to chicken head and extension as shown in Fig. 93.1.



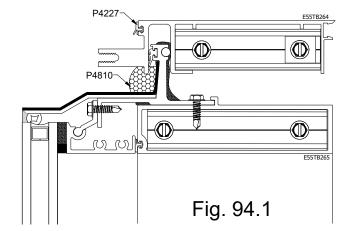
400 4-SIDE SSG CASSETTE on 400CW / T BACK MEMBERS



NOTE: Refer to 400T Curtain Wall installation manual for assembly and installation of 400T back member support framing.

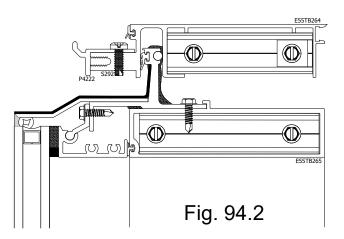
Assemble back member support framing to inter-story (chicken head) location. Upper framing will be installed after lower Cassette and chicken head installation is completed.

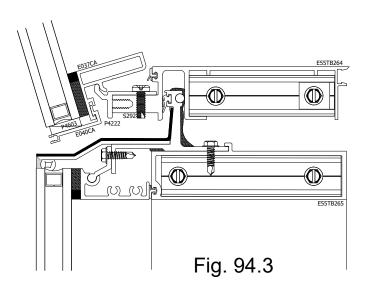
- Step 1: Install P4810 foam rod at chicken head splice, set in sealant to hold in place. See Fig. 94.1
- Step 2: Install next portion of assembled 400T back support member sliding sill cope over head of chicken head and secure back member framing maintaining gap required for movements. See Fig. 94.1
- Step 3: Once back support frame is installed and secured, install Cassette sill anchor P4222 12" on center and secure with fastener S292. See Fig. 94.2
- Step 4: Install pre-glazing Cassette frame, roll over P4222 anchor clip and secure at head and jambs. See Fig. 94.3.



DEPEND

LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

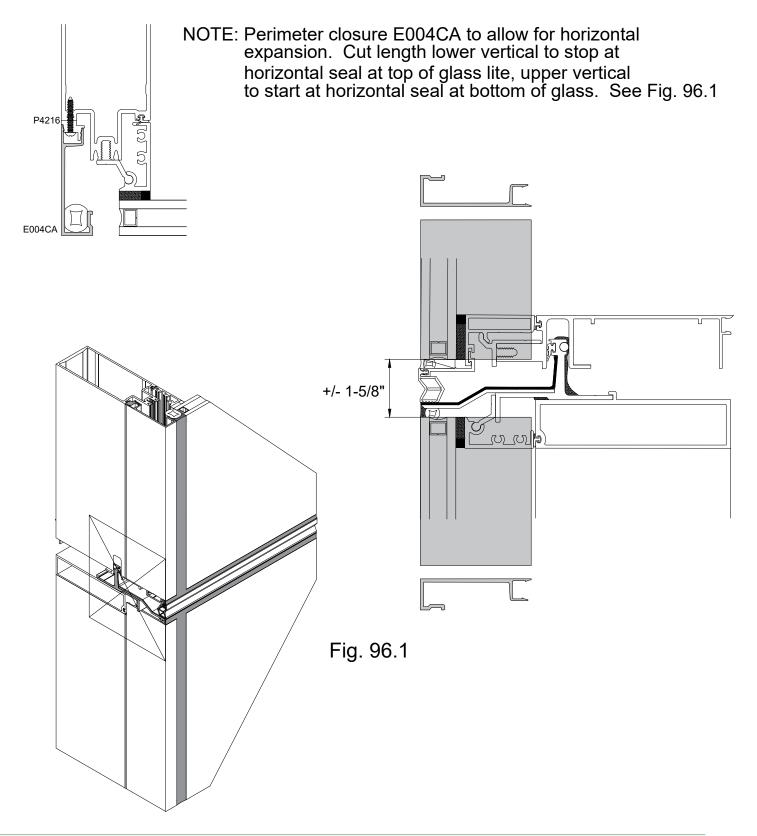






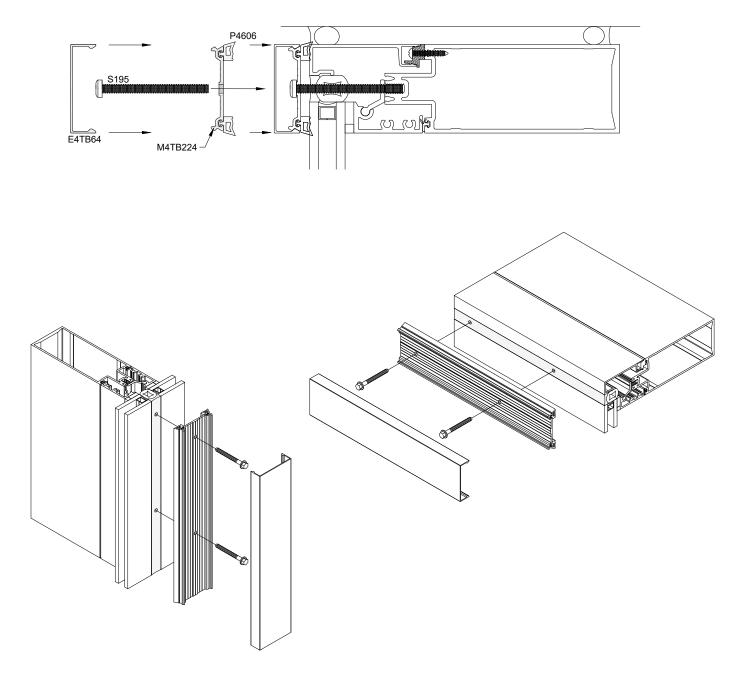
Step 1: Install expansion gasket PTB134 into race on setting E55TB264 block chair E040CA. See Fig. 95.1. \bigcirc Œ Step 2: Install continuous silicone seal between expansion PTB134 gasket PTB134 / setting block - ANNING chair E042CA and edge of glass. (D See Fig. 95.2. ധവി E55TB26 Step 3: Silicone seal PTB134 gasket splices with silicone. See Fig. 95.3. Fig. 95.1 E55TB2 \square \bigcirc Install continuous silicone bead PTB134 D လ လမျာ E55TB265 Fig. 95.1 Apply silicone at ends of PTB134 expansion gasket to "glue" together splice. Fig. 95.1







CASSETTE FRAME - Exterior Accent Cover Installation



- STEP 1: Cut pressure plate M4TB224 to length...end holes to be no more than 2" from ends, 1/4" clearance holes may have to be drilled at ends.
- STEP 2: Hold M4TB224 in position and mark or drill holes in joint sealant.
- STEP 3: Fill drilled hole with sealant.
- STEP 4: Install gasket P4606 onto M4TB224.
- STEP 5: Hold M4TB224 in position and secure with S195 fastener..use all holes in M4TB224 pressure plate.
- STEP 6: Use blocking and tap cover (E4TB64) into position.