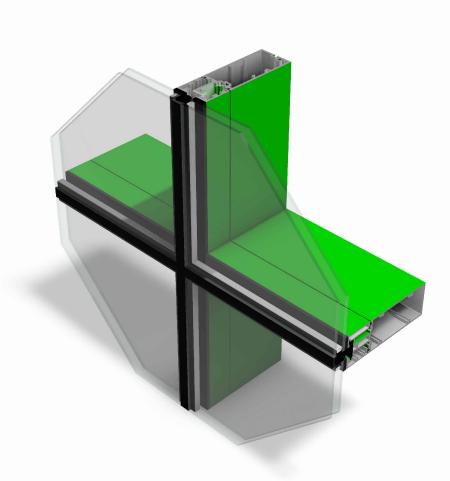


LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

# **400 4-SIDE SSG CASSETTE**



# INSTALLATION INSTRUCTIONS with 400SS CURTAIN WALL

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







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#### **GENERAL CONSTRUCTION NOTES**

IUBLLIE DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT,

CURTAINWALL AND ENTRANCE SYSTEM

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, environment, temperature and humidity. 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.

#### 400SS ASSEMBLY AND INSTALLATION

Refer to Tubelite, Inc website (tubeliteinc.com) for 400SS 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)

#### **TYPICAL FRAMING EXTRUSIONS**

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"
ത്രനി	CASSETTE "GLASS-to-EDGE" SILL	E010CA	290"
	CASSETTE "GLASS-to-EDGE" BACK UP FRAME HEAD / JAMB / SILL	E011CA	290"
To c	CASSETTE 90 DEGREE OS SSG CORNER FRAME	E018CA	290"
	CASSETTE 90 DEGREE OS SSG CORNER INSERT	E022CA	290"

#### **TYPICAL FRAMING EXTRUSIONS**

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

SHAPE	DESCRIPTION	Part No.	Stock Length
	CASSETTE 90 DEGREE IS SSG CORNER FRAME	E024CA	290"
L	CASSETTE 90 DEGREE IS SSG CORNER INSERT	E034CA	290"
	CASSETTE to CAPTURED TRANSITION INSERT	E032CA	290"
	ALUMINUM PRESSURE PLATE	M300TU	290"
	ALUMINUM COVER	E4TB64	290"

#### **TYPICAL EXTRUDED ACCESSORIES**

SHAPE	DESCRIPTION	Part No.	Stock Length
	CASSETTE SLIDING / PIVOT ANCHOR HEAD / JAMB / SILL	P4201	1-1/2"
	CASSETTE SLIDING / PIVOT DEAD LOAD ANCHOR SILL	P4203	2-1/2"
	CASSETTE SLIDING / PIVOT ANCHOR GLASS-to-EDGE HEAD / JAMB	P4205	1-1/2"
	CASSETTE SILL SETTING BLOCK CHAIR - E002CA - SILICONE GLZ.	P4215	6"
	CASSETTE PERIMETER CLOSURE PVC THERMAL ISOLATOR (E004CA)	P4216	144"

#### TYPICAL EXTRUDED ACCESSORIES

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

SHAPE	DESCRIPTION	Part No.	Stock Length
	CASSETTE SILL SETTING BLOCK CHAIR GLASS-to-EDGE TOP ASSEMBLED PANEL - SILICONE GLZ.	P4217	6"
	CASSETTE SILL SETTING BLOCK CHAIR GLASS-to-EDGE SILL - SILICONE GLZ.	P4623	6"
	CASSETTE DEAD LOAD ANCHOR SILL	P4223	2-1/2"
	CASSETTE OUTSIDE CORNER ANCHOR	P4206	1-1/2"
	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 / FASTENERS**

SHAPE	DESCRIPTION	Part No.	Stock Length
et al. and a set of the set of t	1/4" x 3/8" SILICONE GASKET	P4209	250'
<u>}</u>	1/16" x 3/8" SILICONE FIN GASKET	P4227	250'



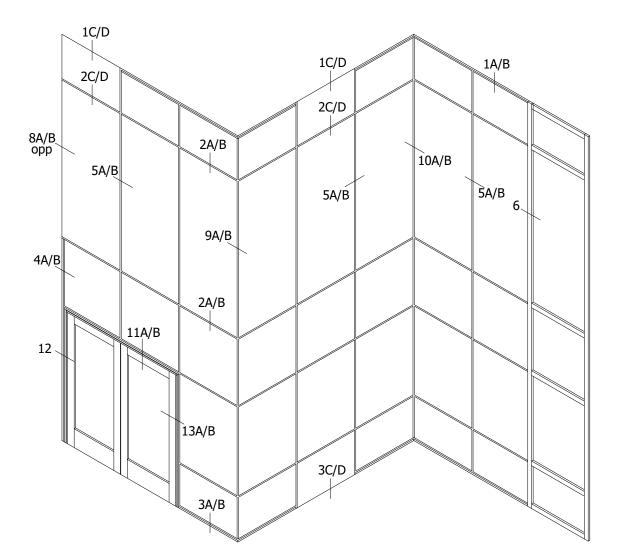
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#### ACCESSORIES - GASKETS / SETTING BLOCKS / FASTENERS

SHAPE	DESCRIPTION	Part No.	Stock Length
H C	1/4" SILICONE GLAZING GASKET	P4606	250'
	1/4" EPDM THERMAL SEPARATOR GASKET	P4605	250'
	1/4" x 1/4" NORTON GLAZING TAPE ADHESIVE TWO SIDES	P4211	250'
	1/4" x 1" SILICONE GLASS SETTING BLOCK	P1912S	6"
	5/8" x 1" SILICONE GLASS SETTING BLOCK DEAD LOAD GLASS-to-EDGE SILL	P4213	6"
	1/4" x 7/8" SILICONE GLASS SETTING BLOCK DEAD LOAD GLASS-to-EDGE SILL	P4603	6"
	#12 x 1-1/4" HWH SS TYPE F CASSETTE FRAME ASSEMBLY	S375	QTY = 100
	1/4-20 x 1-1/2" SELF-DRILLER CASSETTE ANCHOR FASTENER	S376	QTY = 100
{ <b>]</b>	#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 2-3/4" HEX HD MS ZINC	S431	QTY = 25
	#10 x 5/8" PH FL HD TYPE "B" SELF-TAPPING	S192	QTY = 25

#### **DETAIL REFERENCE ELEVATION**

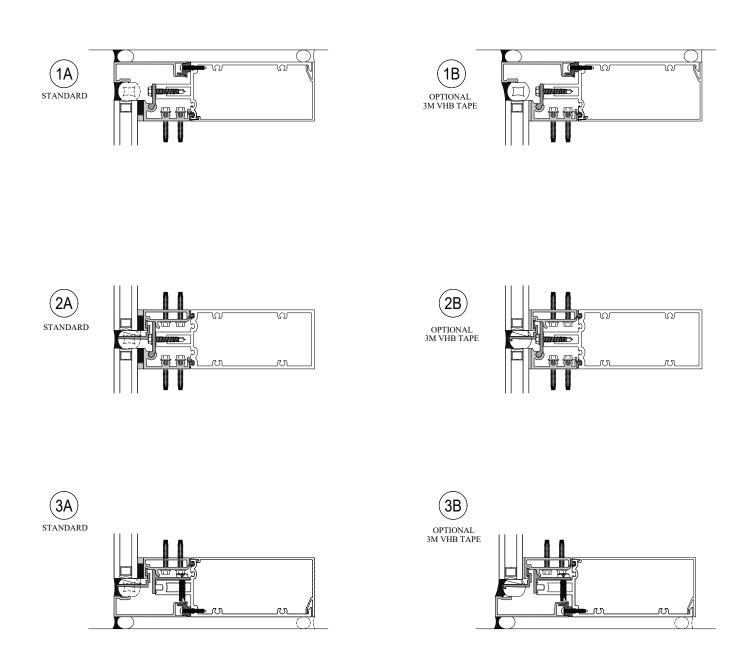




# **TYPICAL ELEVATION**

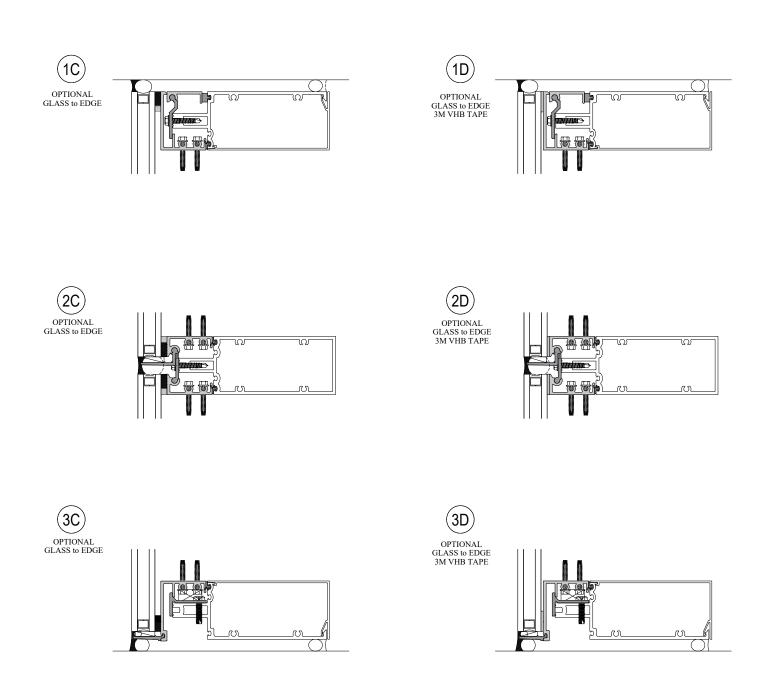
#### HORIZONTAL DETAILS





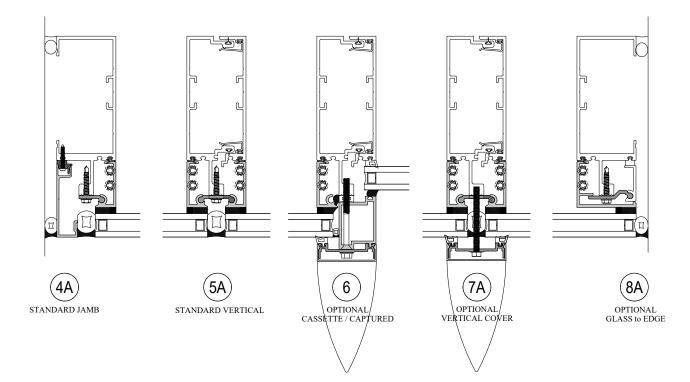
#### HORIZONTAL DETAILS

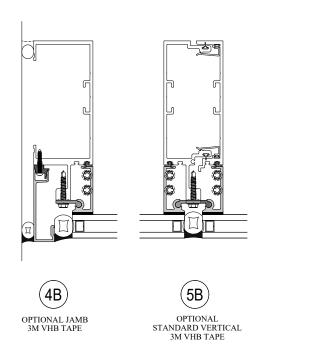


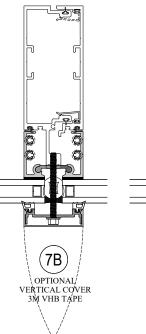


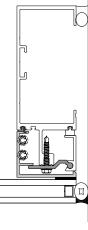
TUBELITE DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

### **VERTICAL DETAILS**





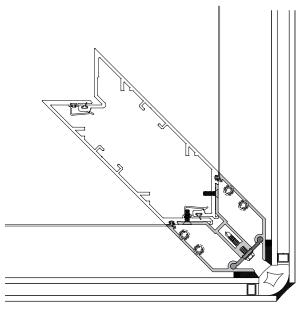




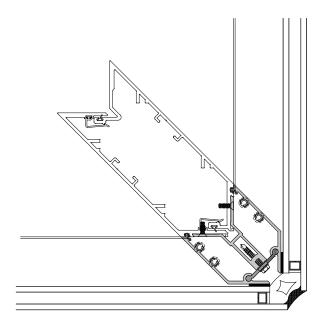


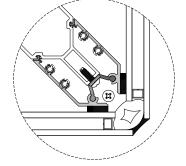










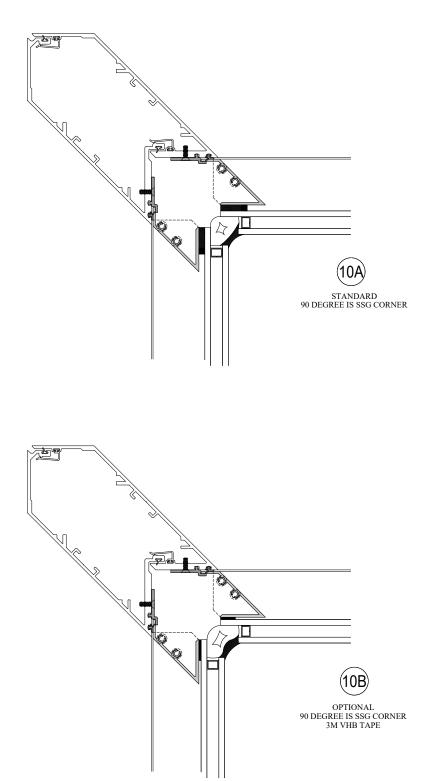




OPTIONAL 90 DEGREE OS SSG CORNER 3M VHB TAPE

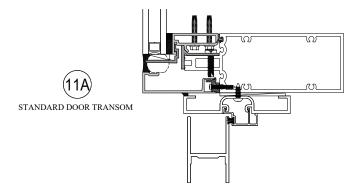
#### **INSIDE 90 DEGREE CORNER DETAILS**

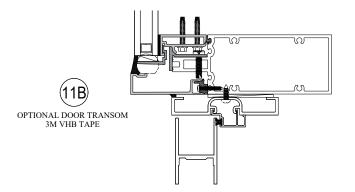




### HORIZONTAL DOOR FRAME DETAILS

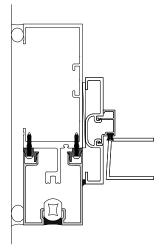




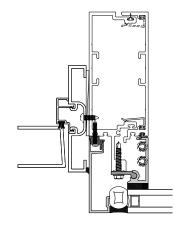


#### VERTICAL DOOR FRAME DETAILS

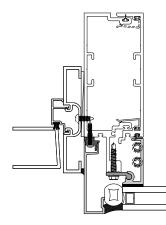




(12) STANDARD DOOR JAMB



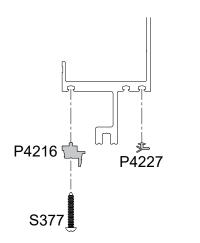
(13A) STANDARD DOOR INTERMEDIATE

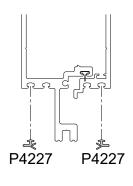


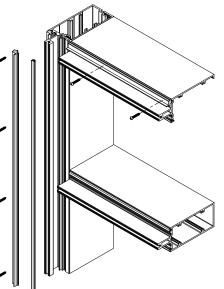
OPTIONAL DOOR INTERMEDIATE 3M VHB TAPE

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

 REFER TO 400SS INSTALLATION MANUAL for CURTAIN WALL BACK MEMBER ASSEMBLY AND ANCHORAGE.
Note: water dams, typical gasket, pressure plates and covers not required.

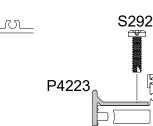


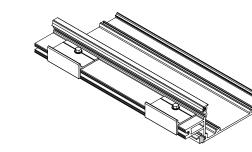




LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

- STEP 1: Install P4216 around perimeter framing, secure with S377 - hole pre-drilled 8" o/c. Locate fasteners no more than 2" from ends. Clean drill burrs prior to installing. Clean cut end burrs and align adjacent lineals.
- STEP 2: Install spacer gasket P4227 at ALL vertical and 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 P4223 12" o/c with S292 self-tapping fastener. Locate P4223 no more 2" from ends of sill members.





P4227

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P4216

P4216

S377

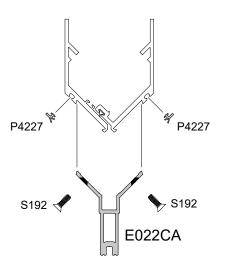


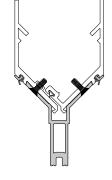
S377

RN



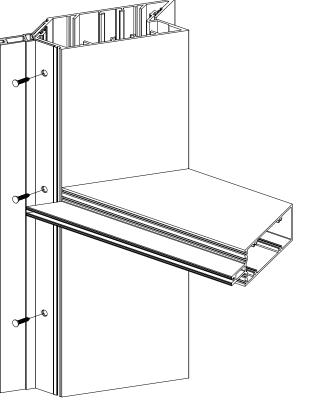
#### SUPPORT FRAME (400SS BACK MEMBER) FRAME PREPARATION FOR CASSETTE INSTALLATION and ANCHORAGE OUTSIDE CORNERS





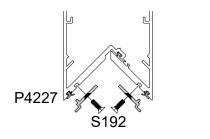


- STEP 1: Drill 0.21" clearance holes in E022CA 18" o/c and no more than 2" from each end, then counter sink each hole for S192 fastener head.
- STEP 2: Install E022CA to inside corner frame and match drill #8 hole.
- STEP 3: Install S192 fastener to secure E034CA insert.
- STEP 4: Verify gasket P4227 has been installed into outside corner frame gasket receivers.



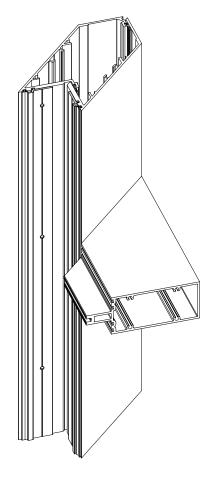






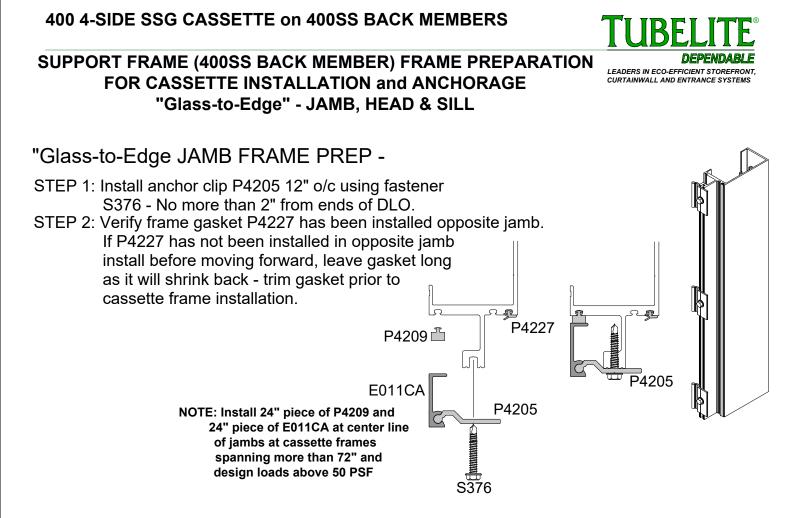






## **INSIDE CORNER FRAME PREP -**

- STEP 1: Drill 0.21" clearance holes in E034CA 18" o/c and no more than 2" from each end, then counter sink each hole for S192 fastener head.
- STEP 2: Verify gasket P4227 has been installed into inside corner frame gasket receivers.
- STEP 3: Install E032CA to inside corner frame and match drill #8 hole.
- STEP 4: Install S192 fastener to secure E034CA insert.

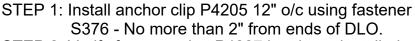


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S376

### "Glass-to-Edge HEAD FRAME PREP -

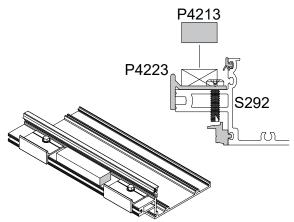


STEP 2: Verify frame gasket P4227 has been installed opposite side. If P4227 has not been installed install before moving forward, leave gasket long as it will shrink back - trim gasket prior to cassette frame installation.

## "Glass-to-Edge SILL FRAME PREP -

P4205

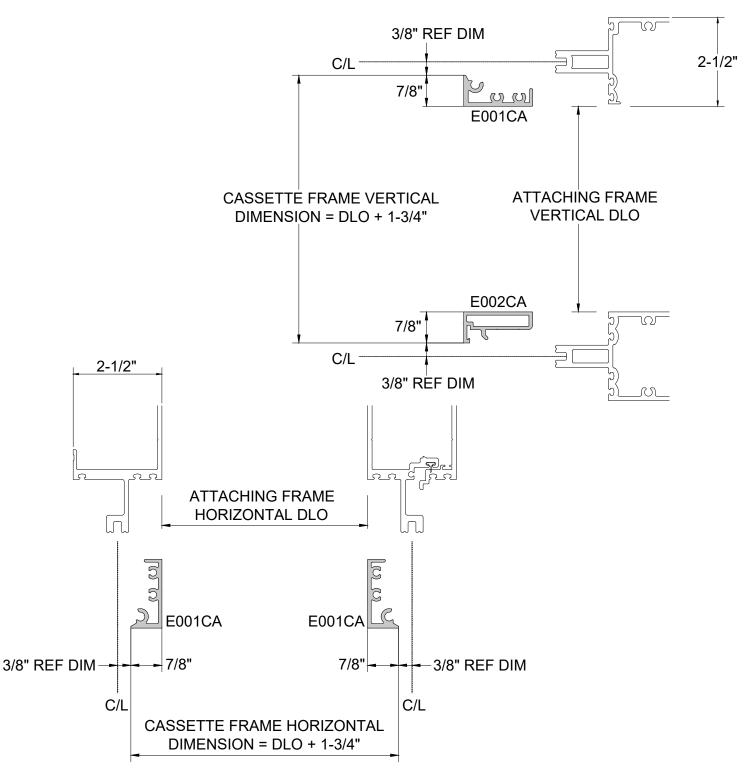
- STEP 1: Install anchor clip P4223 12" o/c using fastener S292 - No more than 2" from ends of DLO.
- STEP 2: Install silicone dead load block P4213 locating between P4223 anchor clip.
- STEP 3: Verify frame gasket P4227 has been installed opposite side. If P4227 has not been installed install before moving forward, leave gasket long as it will shrink back - trim gasket prior to cassette frame installation.





#### **CASSETTE FRAME SIZE CALCULATOR - TYPICAL FRAMING**

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

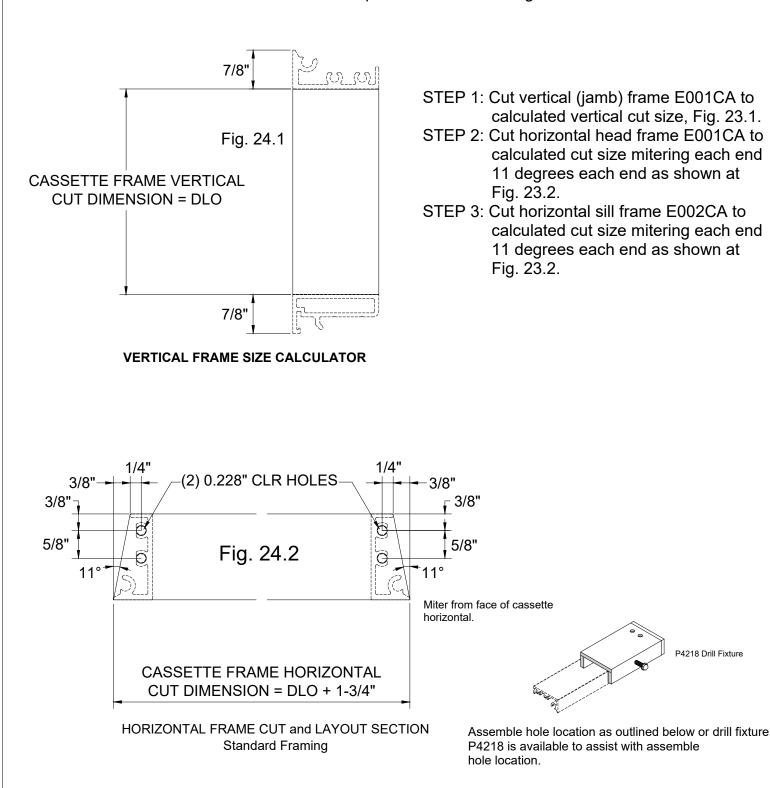


NOTE: Cassette frames sizes based on 400SS back members or 2-1/2" profile back members.



#### **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

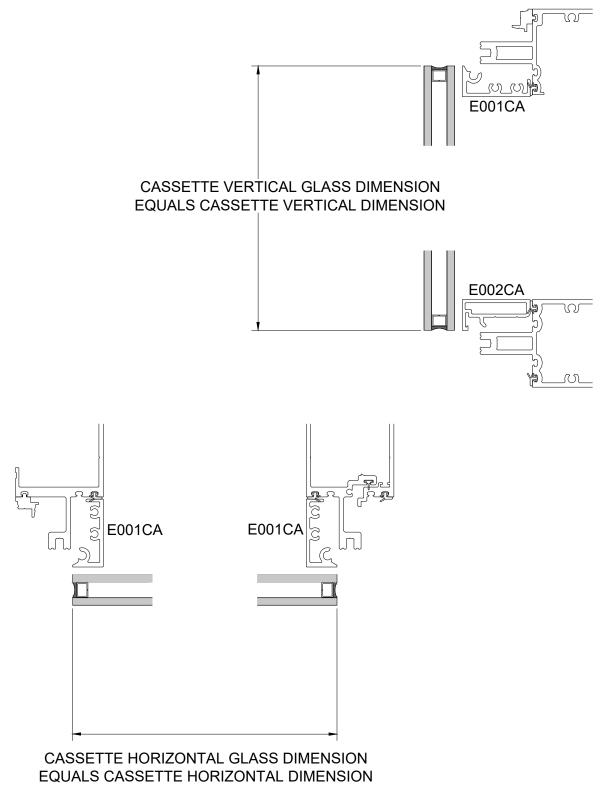


TUBELITE DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT,

CURTAINWALL AND ENTRANCE SYSTEMS

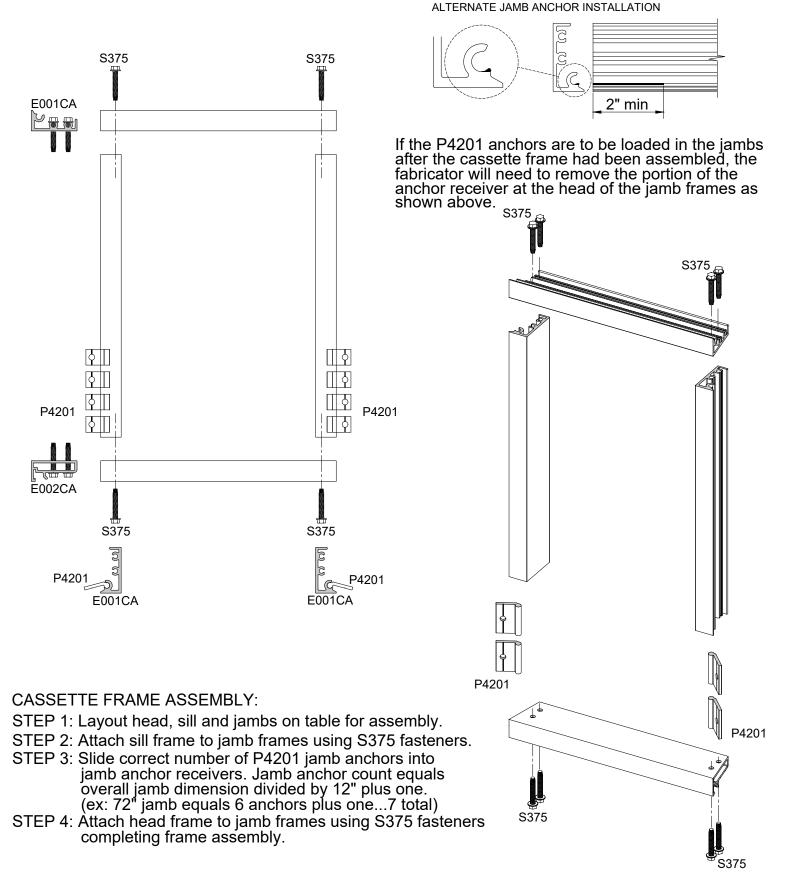
#### **CASSETTE GLASS SIZE CALCULATOR - TYPICAL FRAMING**

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"

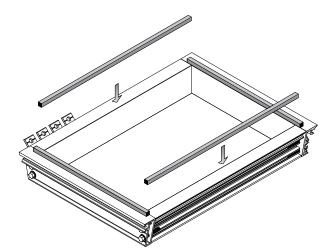


LADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

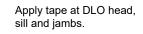
### CASSETTE FRAME ASSEMBLY- TYPICAL FRAMING











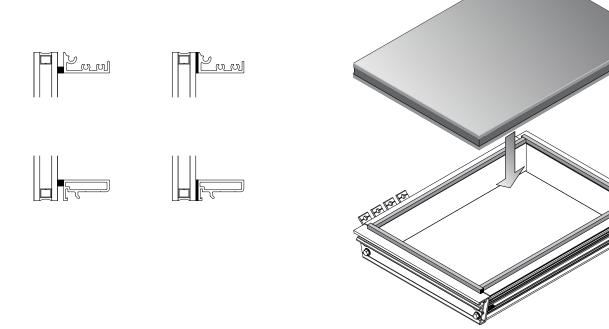
LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS



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)

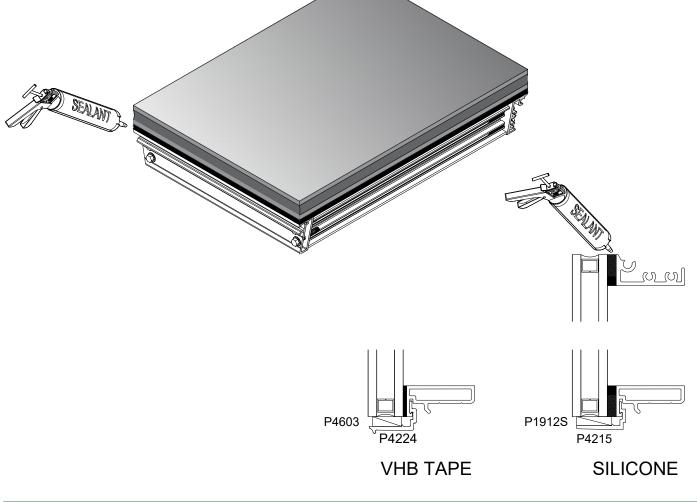


#### **CASSETTE FRAME GLAZING - continued**

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

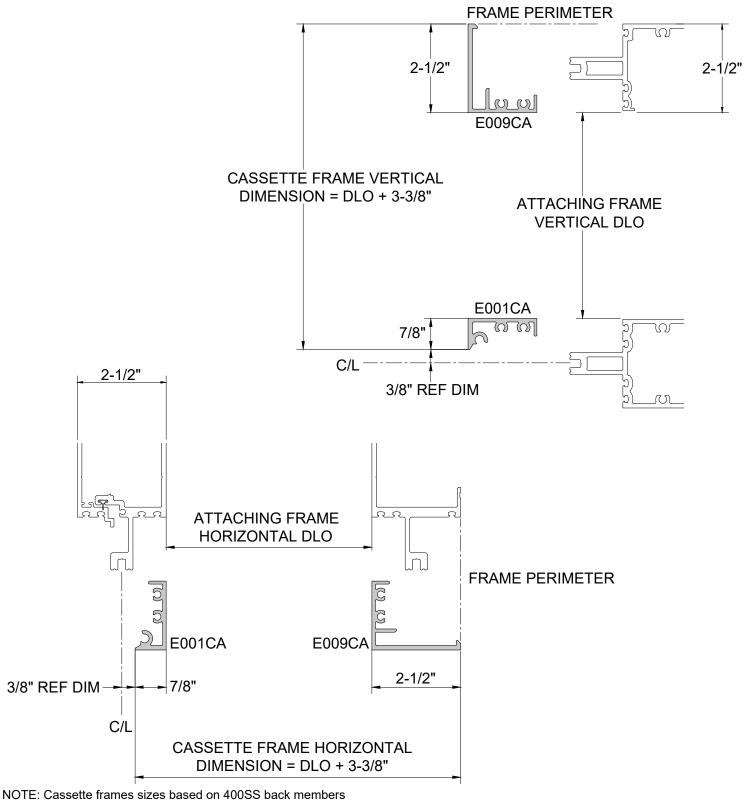
CASSETTE SSG GLAZING

- 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: 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"

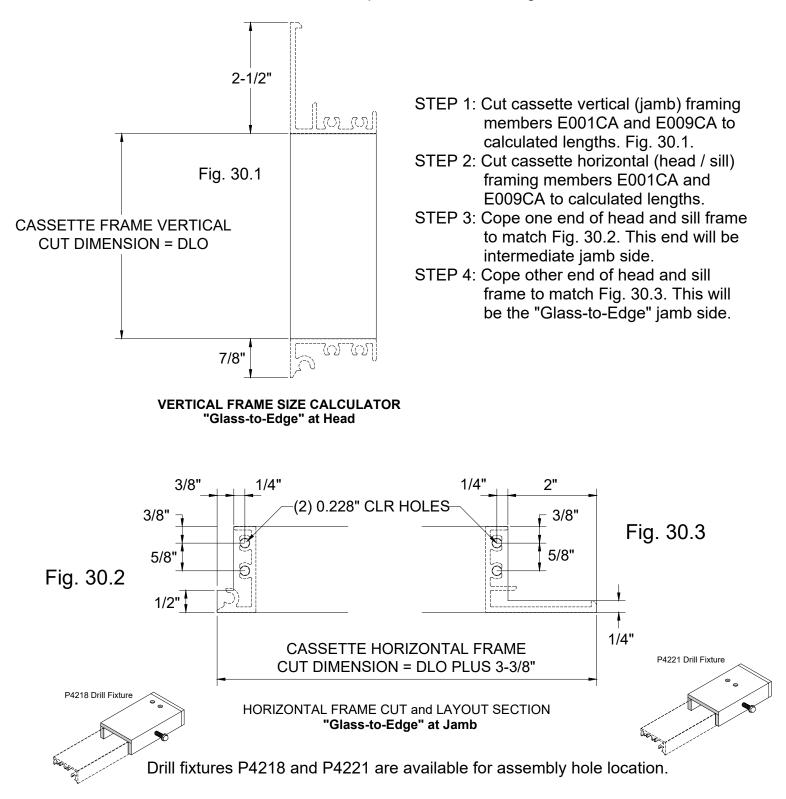


or 2-1/2" profile back members.



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

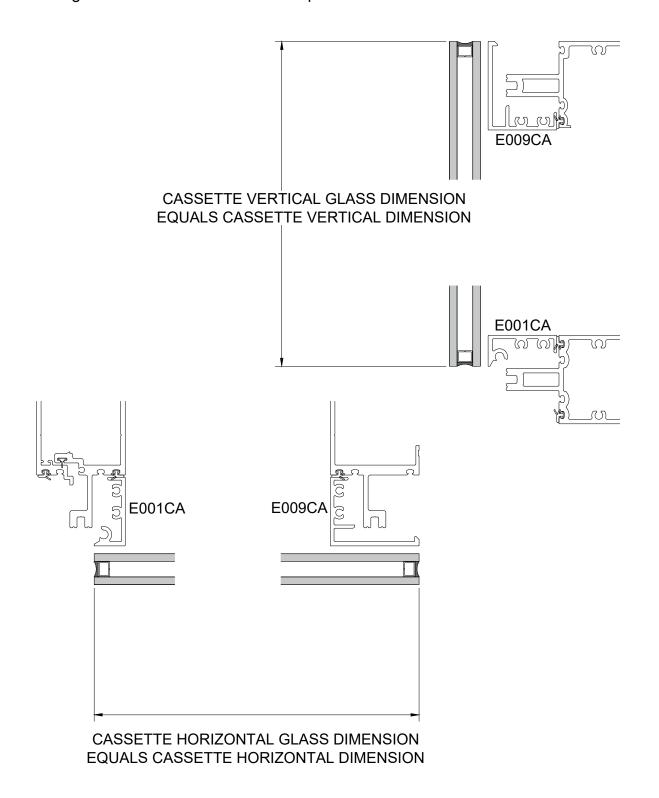
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 3-3/8" of attaching frame





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

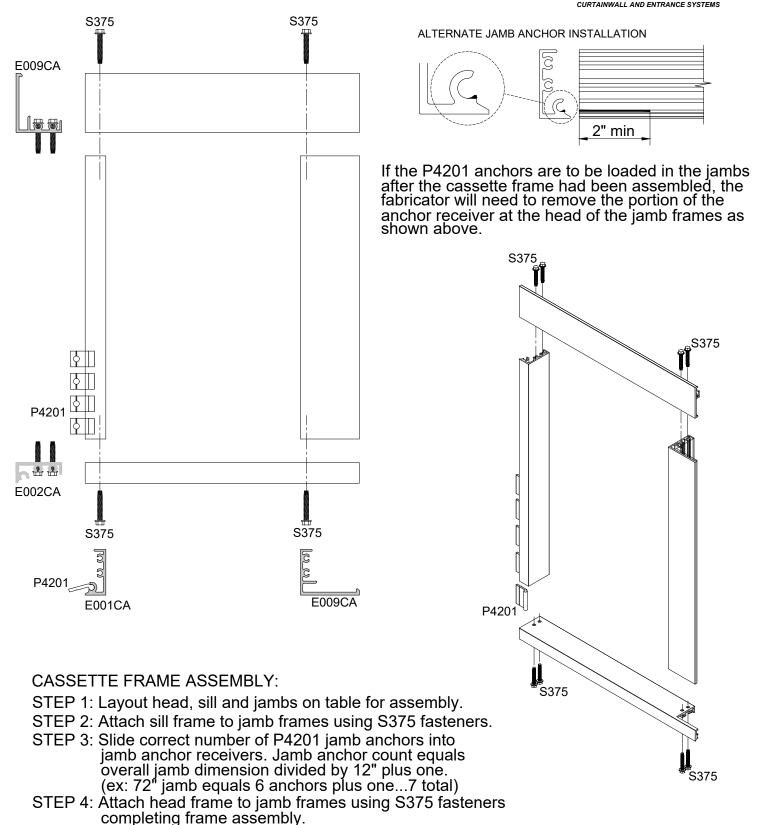
Cassette frame overall glass size: Vertical glass size = Back member DLO plus 3-3/8" Horizontal glass size = Back member DLO plus 3-3/8"



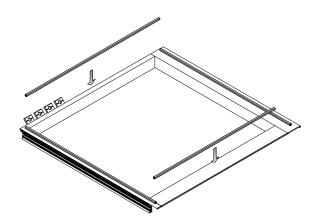


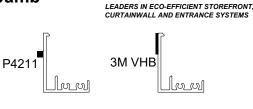
TUBELITE DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

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



#### CASSETTE FRAME GLAZING - "Glass-to-Edge" Head / Jamb





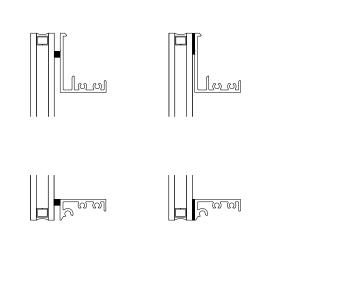
Apply tape at "V" groove and and jamb. Follow DLO at sill and opposite jamb.

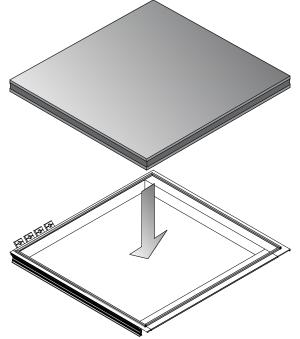


NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

#### 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)



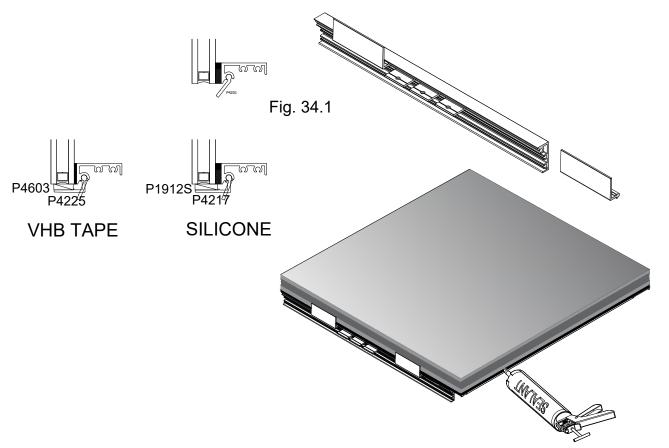




#### CASSETTE FRAME GLAZING - "Glass-to-Edge" Head / Jamb - cont.

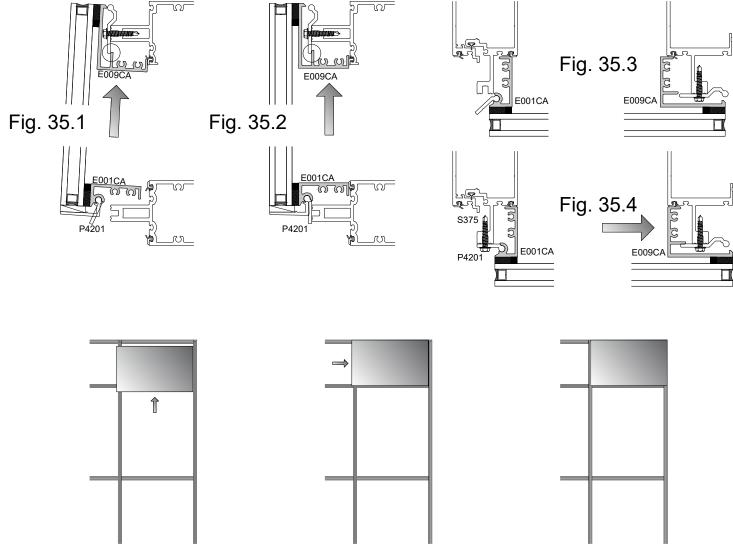
#### CASSETTE SSG GLAZING

- 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: Prior to installing setting block chair P4217 install correct number of center anchors P4201 as shown in Fig. 34.1.
- 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.35.1 and off the jamb anchor as shown in Fig. 35.3 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. 35.2.
- STEP 3: Slide the cassette frame horizontally to engage the jamb anchor as shown in Fig. 35.4.
- STEP 4: Attach sill anchors P4201 at 12" o/c and no more than 2" from ends.
- NOTE: Cassette unit below must use anchor P4201 at sill verses P4203 for installation clearance. Refer to PERIMETER SHEETS DTL. 2B.



Partial elevation showing cassette frame movements for installation

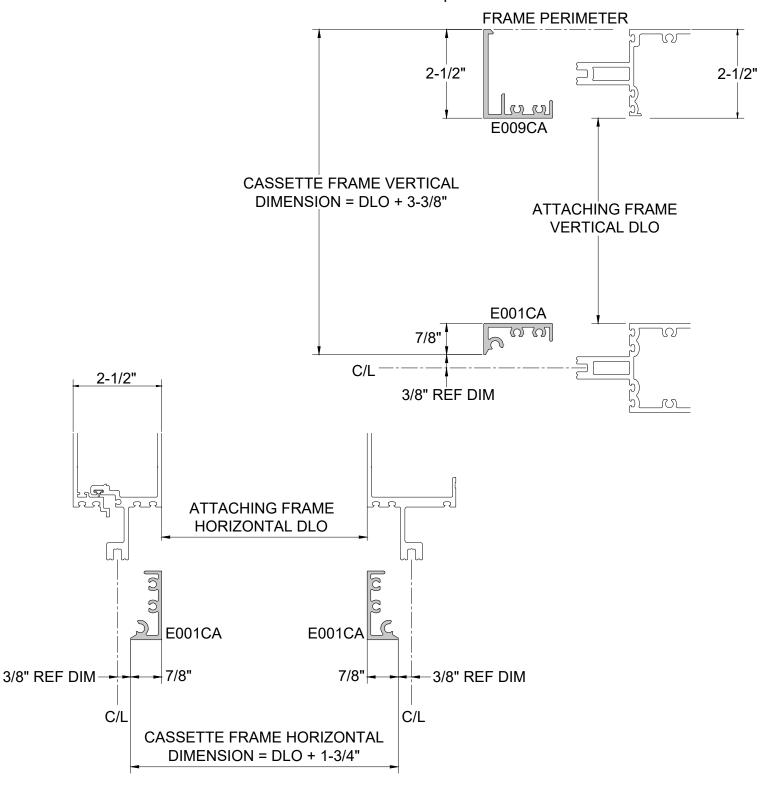
LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS



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

Cassette frame overall dimension:

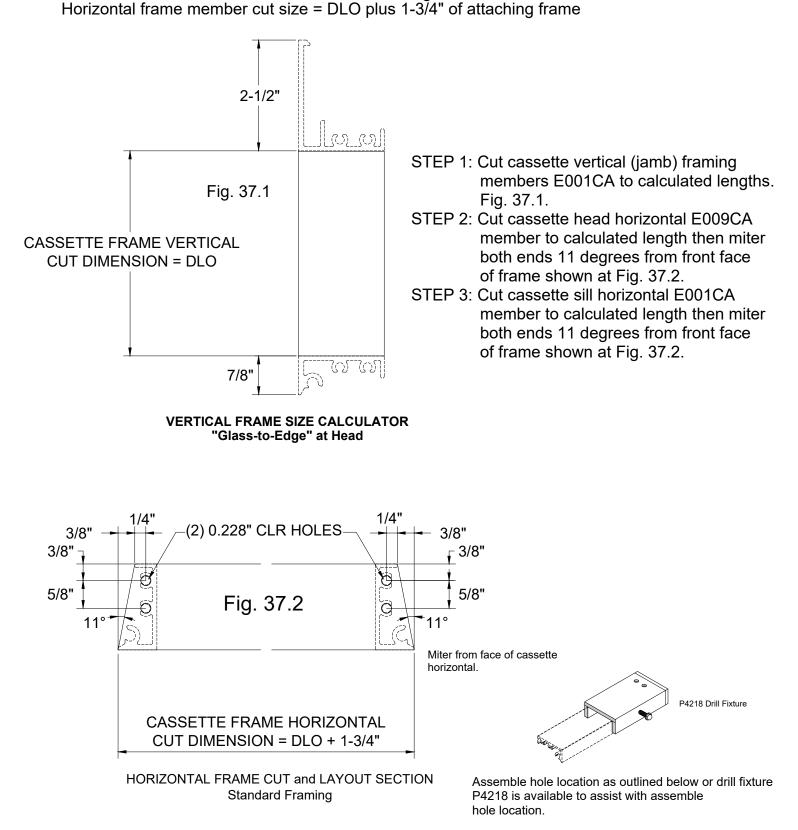
Vertical frame dimension: Back member DLO plus 3-3/8" Horizontal frame dimension: Back member frame DLO plus 1-3/4"



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

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

"Glass-to-Edge" Head Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame

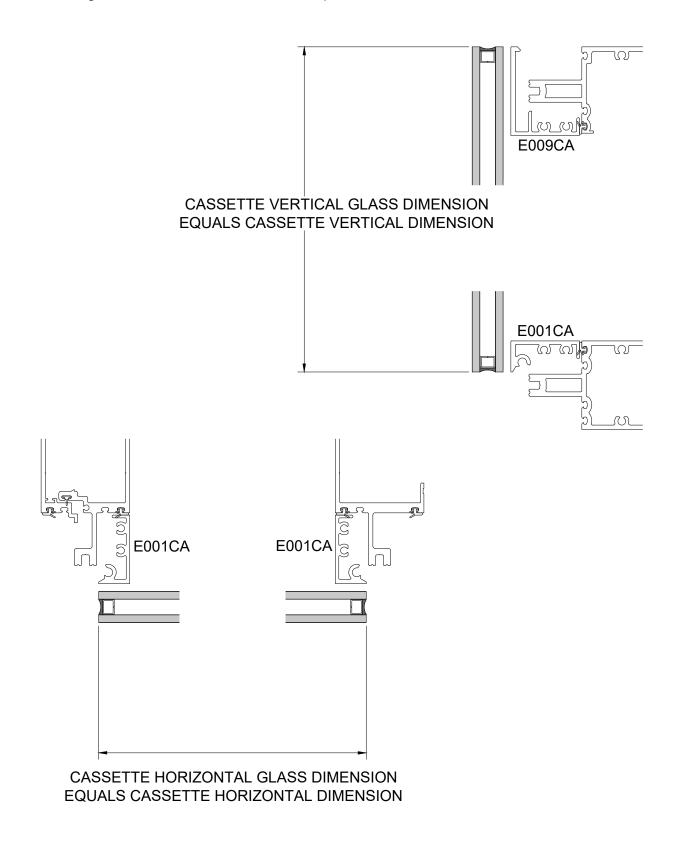






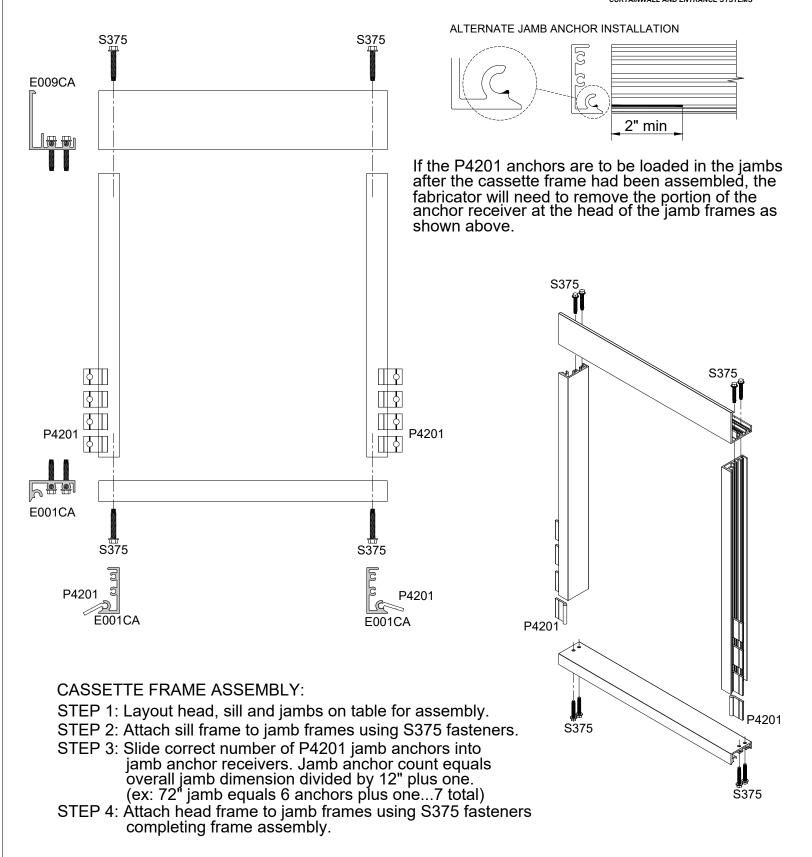
## CASSETTE GLASS SIZE CALCULATOR - "Glass-to-Edge" Head

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"

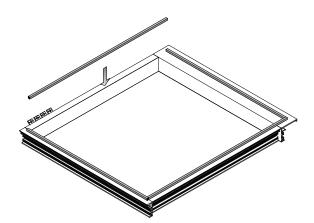


DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

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



## CASSETTE FRAME GLAZING - "Glass-to-Edge" Head

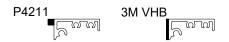




Apply tape at "V" groove head and jamb. Follow DLO at sill and opposite jamb.

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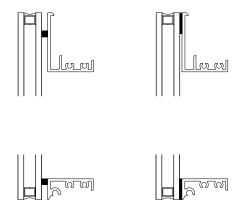
LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

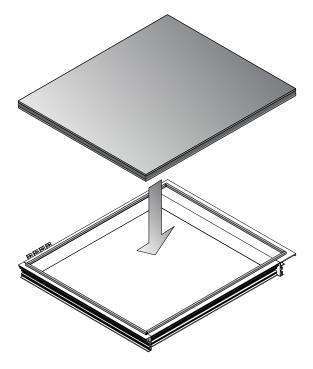


NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

#### 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)



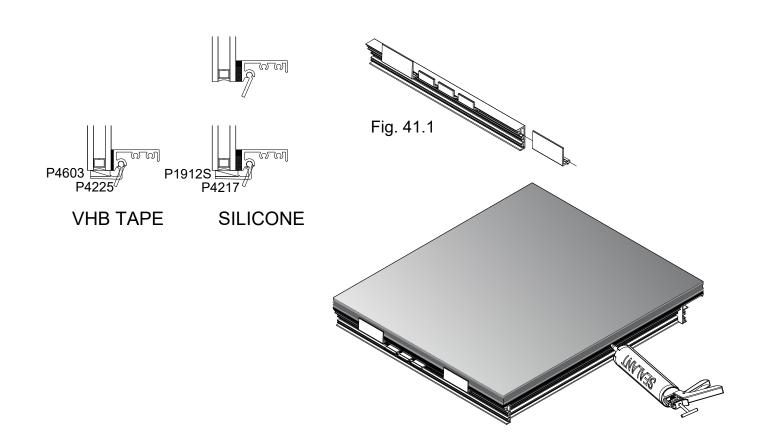




#### CASSETTE FRAME GLAZING - "Glass-to-Edge" Head - cont.

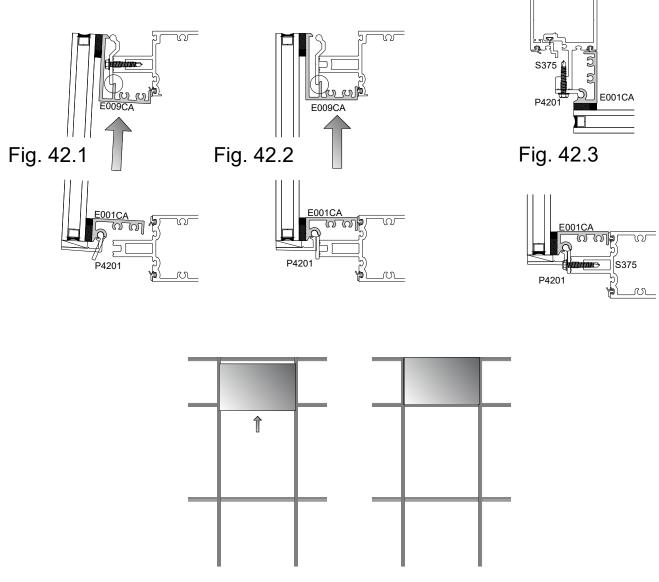
#### CASSETTE SSG GLAZING

- 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: Prior to installing setting block chair P4217 install correct number of center anchors P4200 as shown in Fig. 41.1.
- STEP 4: Install setting block chair P4217 and setting block P1912S at quarter points. (Use setting block chair P4225 and setting block P4603 at quarter points when using VHB glazing tape.
- 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. 42.1
- 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. 42.2.
- STEP 3: Attach sill anchors P4200, Fig. 42.2 at 12" o/c and no more than 2" from ends.
- STEP 4: Attach jamb / sill anchors P4201, Fig 42.3 at 12" o/c and no more than 2" from ends.
- NOTE: Cassette unit below must use anchor P4201 at sill verses P4203 for installation clearance. Refer to PERIMETER SHEETS DTL. 2B.



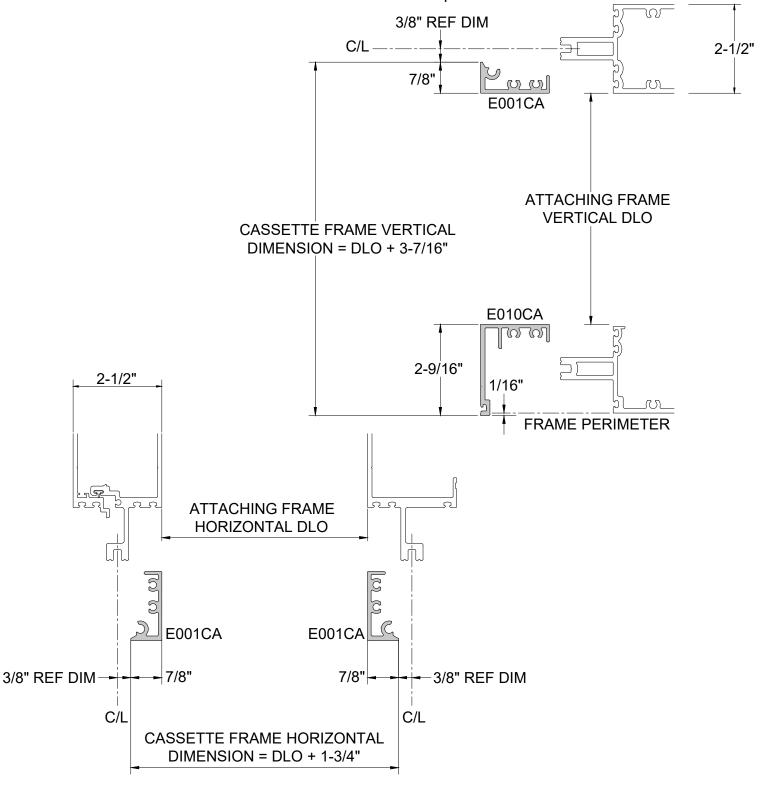
Partial elevation showing cassette frame movements for installation







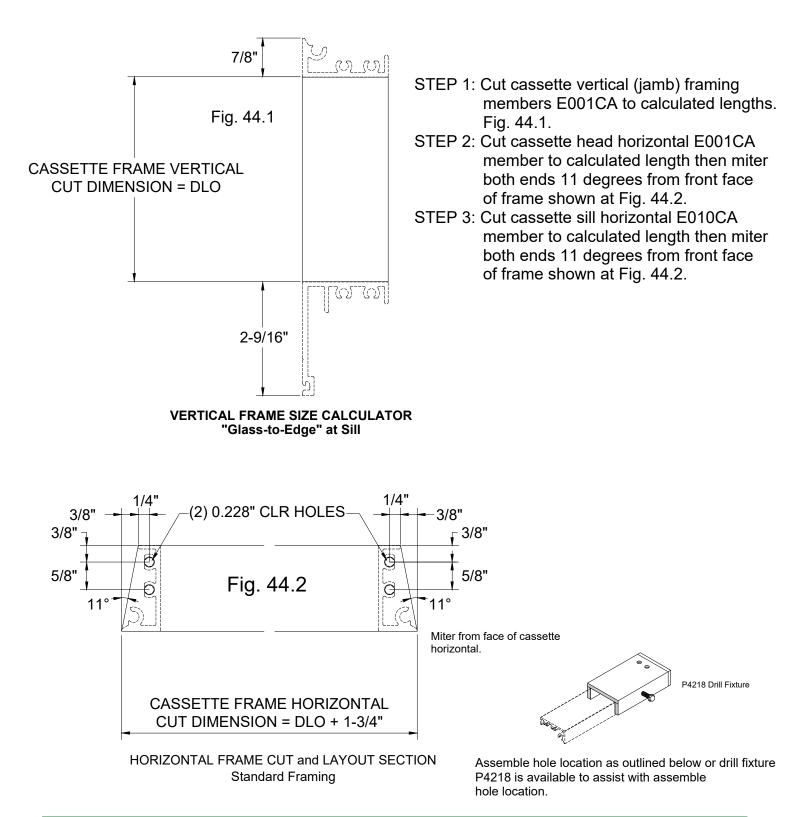
Cassette frame overall dimension: Vertical frame dimension: Back member DLO plus 3-7/16" Horizontal frame dimension: Back member frame DLO plus 1-3/4"



NOTE: Cassette frames sizes based on 400SS 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

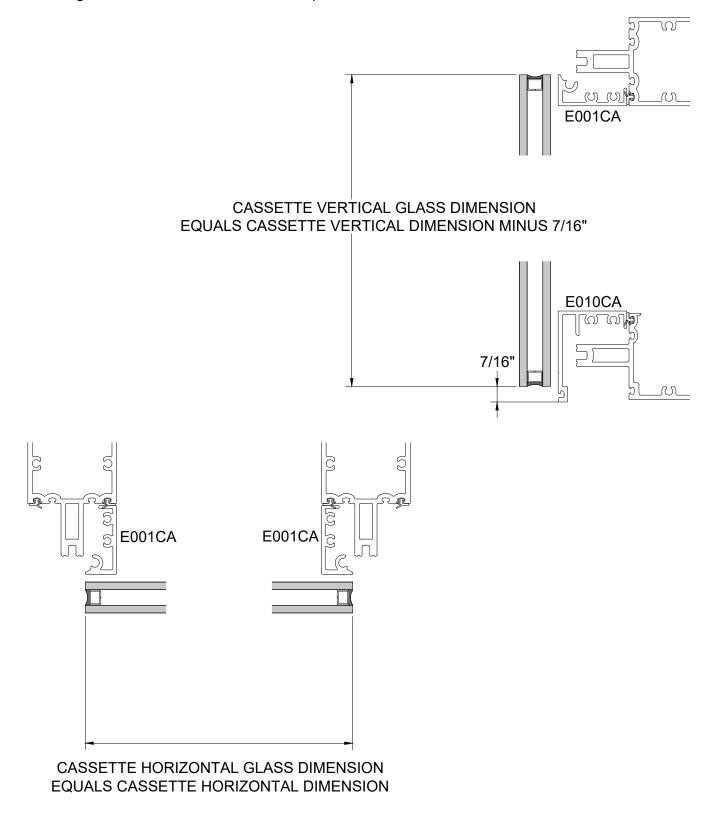






## CASSETTE GLASS SIZE CALCULATOR - "Glass-to-Edge" Sill

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



CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Sill DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS S375 S375 ALTERNATE JAMB ANCHOR INSTALLATION G E001CA G ୰ୄୄୠୄୄୄୄୄୄୄ 2" min If the P4201 anchors are to be loaded in the jambs after the cassette frame had been assembled, the fabricator will need to remove the portion of the anchor receiver at the head of the jamb frames as shown above. S375 0 |S375 þ P4201 P4201 **\** <u>e</u> e E010CA S375 S375 വി P4201 P4201 G  $\sim$ E001CA E001CA CASSETTE FRAME ASSEMBLY: STEP 1: Layout head, sill and jambs on table for assembly. S375 STEP 2: Attach sill frame to jamb frames using S375 fasteners. STEP 3: Slide correct number of P4201 jamb anchors into jamb anchor receivers. Jamb anchor count equals overall jamb dimension divided by 12" plus one. (ex: 72" jamb equals 6 anchors plus one...7 total) S375 STEP 4: Attach head frame to jamb frames using S375 fasteners completing frame assembly.

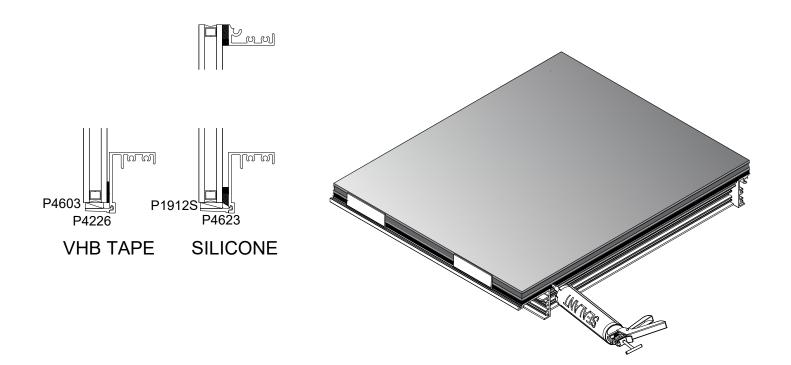
## 400 4-SIDE SSG CASSETTE on 400SS BACK MEMBERS CASSETTE FRAME GLAZING - "Glass-to-Edge" Sill DEPENDARI E LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS ഗ ഗി യ യി P421 3M VHB Apply tape at "V" groove at sill. Follow DLO at head and jambs. ഹ്രഹി മ്പ P4211 3M VHB NOTE: If using 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) ഗസി ഗ്രഹി വവ രി



## 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 P4213 between sill anchor clips P4223.
- STEP 2: Set sill of assembled cassette frame on anchor clips P4223 and roll head of frame toward back member support framing as shown at Fig. 49.1.
- STEP 3: Attach head anchor P4203 to back member support framing intermediate as shown at Fig. 49.2.
- STEP 4: Continue to attach head anchors and attach jamb anchors P4201 as shown at Fig. 49.3.

P4203

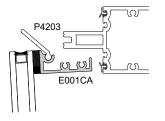
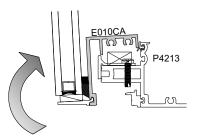
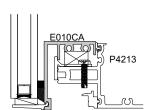
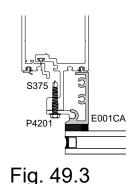


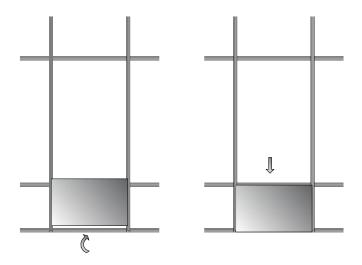
Fig. 49.1







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



Partial elevation showing cassette frame movements for installation



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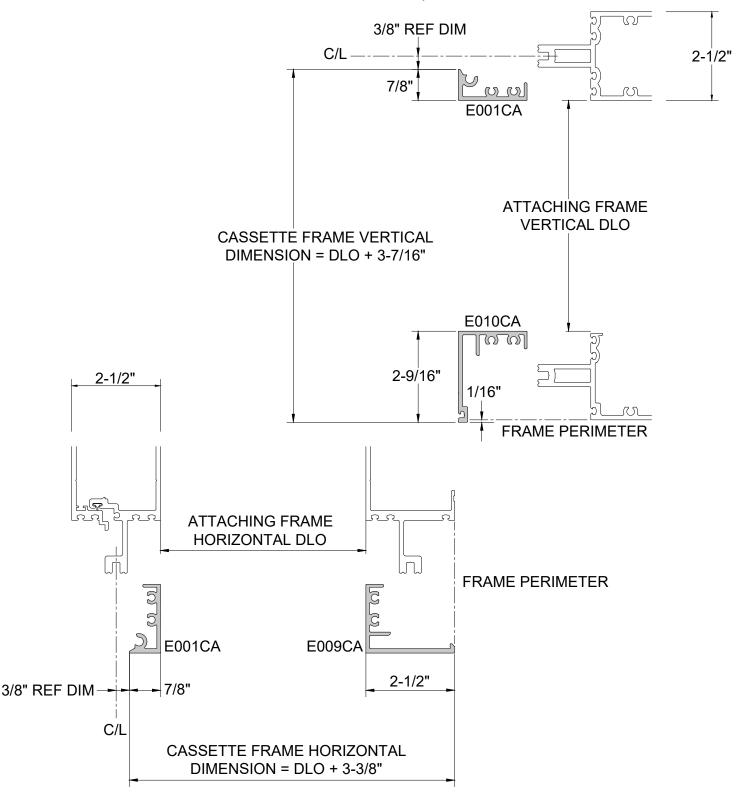
Fig. 49.2

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#### 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"



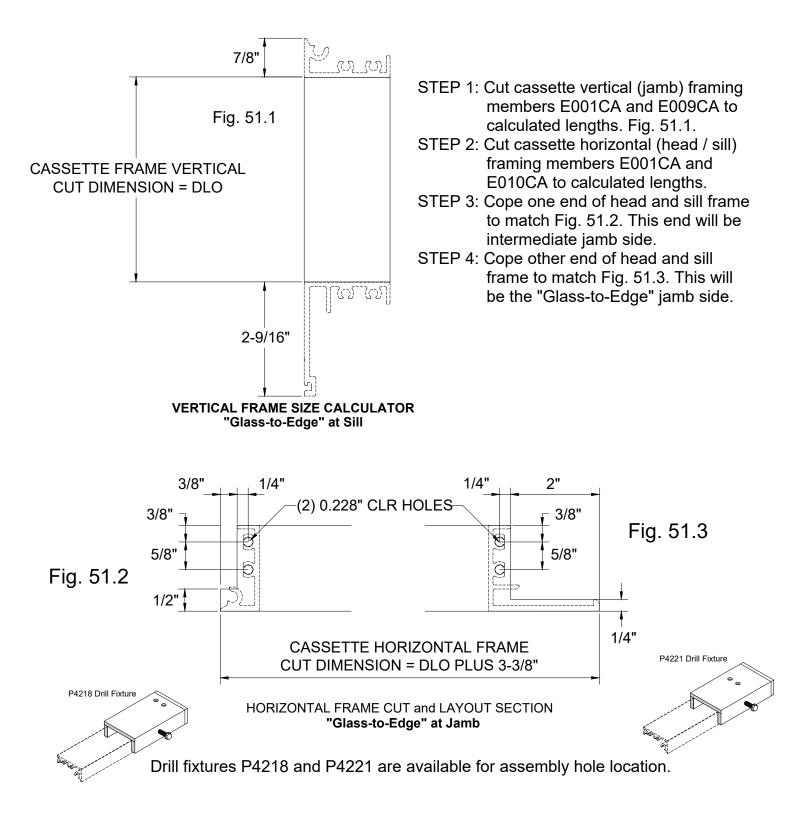
NOTE: Cassette frames sizes based on 400SS back members or 2-1/2" profile back members.

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

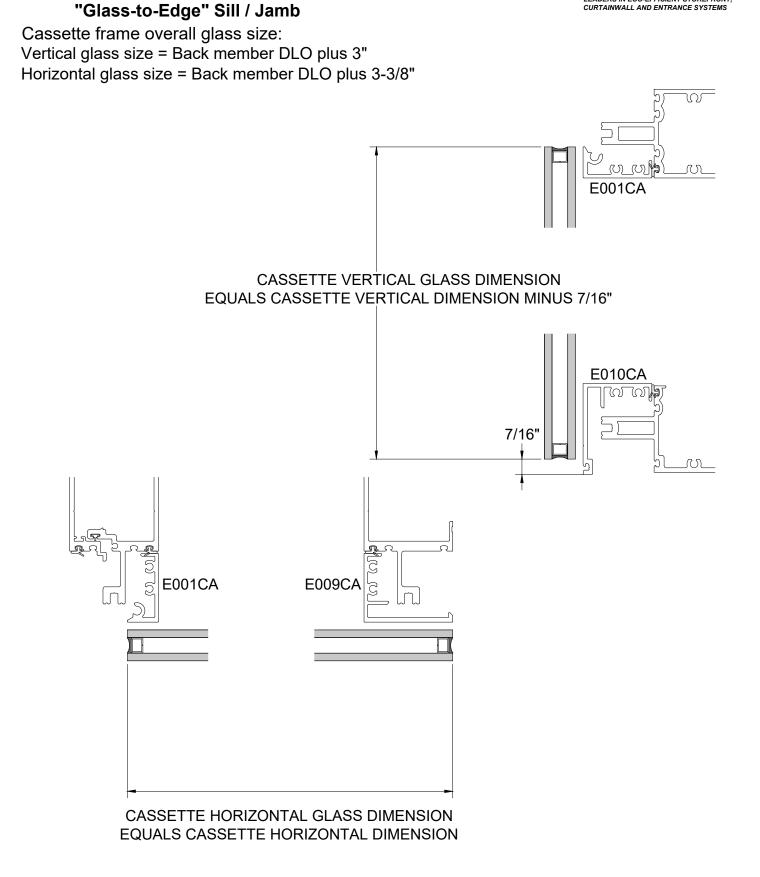
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 3-3/8" of attaching frame





**CASSETTE GLASS SIZE CALCULATOR -**

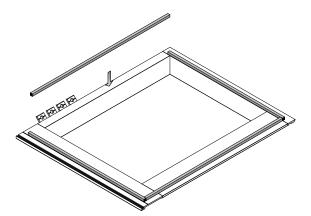
#### TUBELITE DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

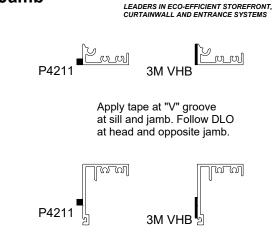


CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Sill / Jamb NEPEND LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS S375 S375 ALTERNATE JAMB ANCHOR INSTALLATION g E001CA G ሾ▦▦ 2" min If the P4201 anchors are to be loaded in the jambs after the cassette frame had been assembled, the fabricator will need to remove the portion of the anchor receiver at the head of the jamb frames as shown above. S375 **\** S375 \$ || P4201 E010CA S375 S375 G P4201 P4201 E009CA F001CA 5375 CASSETTE FRAME ASSEMBLY: STEP 1: Layout head, sill and jambs on table for assembly. STEP 2: Attach sill frame to jamb frames using S375 fasteners. STEP 3: Slide correct number of P4201 jamb anchors into S375 jamb anchor receivers. Jamb anchor count equals overall jamb dimension divided by 12" plus one. (ex: 72" jamb equals 6 anchors plus one...7 total)

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

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

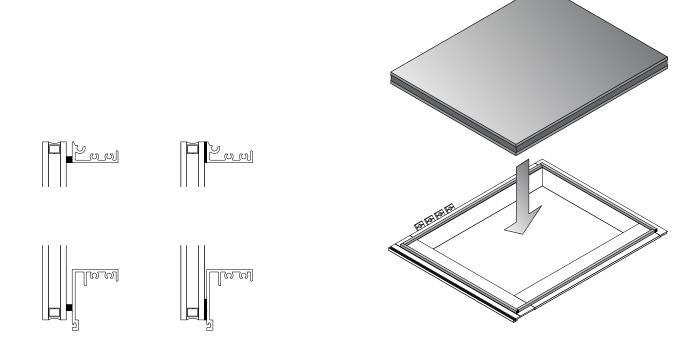




NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

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)



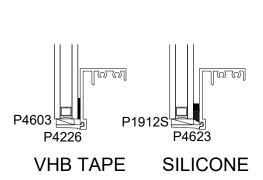


#### CASSETTE FRAME GLAZING - "Glass-to-Edge" Sill / Jamb cont.

#### 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.

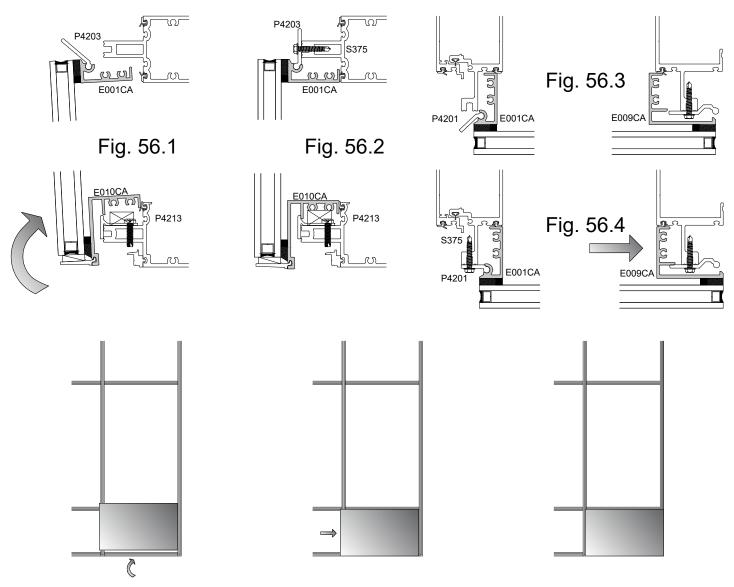
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- STEP 1: Install dead load blocking P4213 between sill anchor clips P4223.
- STEP 2: Set sill of assembled cassette frame on anchor clips P4223 as shown at Fig. 56.1. Note location of jamb frame position shown at Fig. 56.3
- STEP 3: Roll head of frame toward back member support framing as shown at Fig. 56.2.
- STEP 4: Once cassette frame is in vertical position slide frame towards "Glass-to-Edge" jamb sliding frame into jamb anchor...see Fig 56.4.
- STEP 5: Install and attach head anchor clips P4203, 12" o/c, maximum 2" from ends. See Fig. 56.2
- STEP 6: Attach pre-installed jamb anchor clips P4201, 12" o/c, maximum 2" from ends.



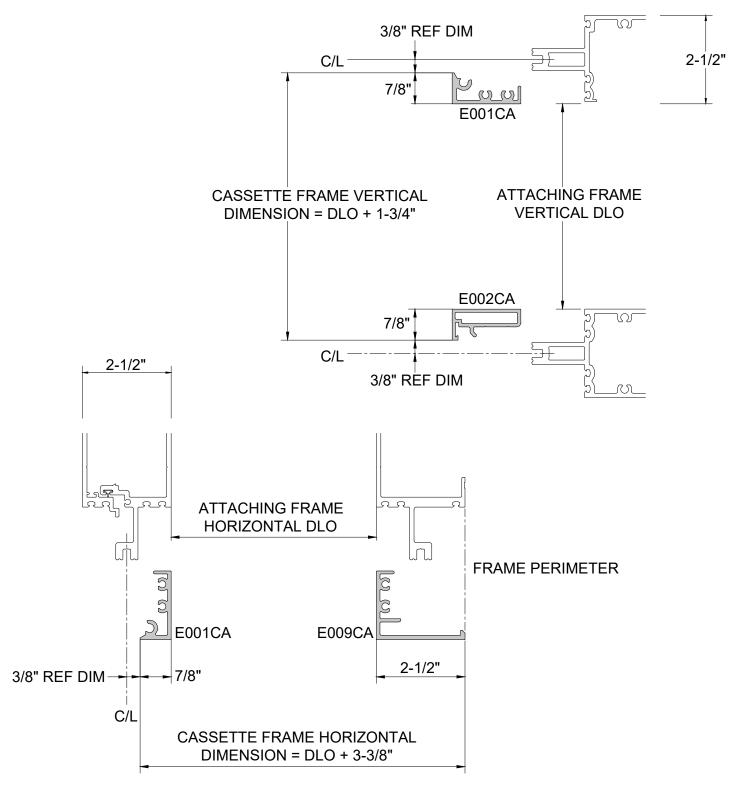
Partial elevation showing cassette frame movements for installation



#### 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"



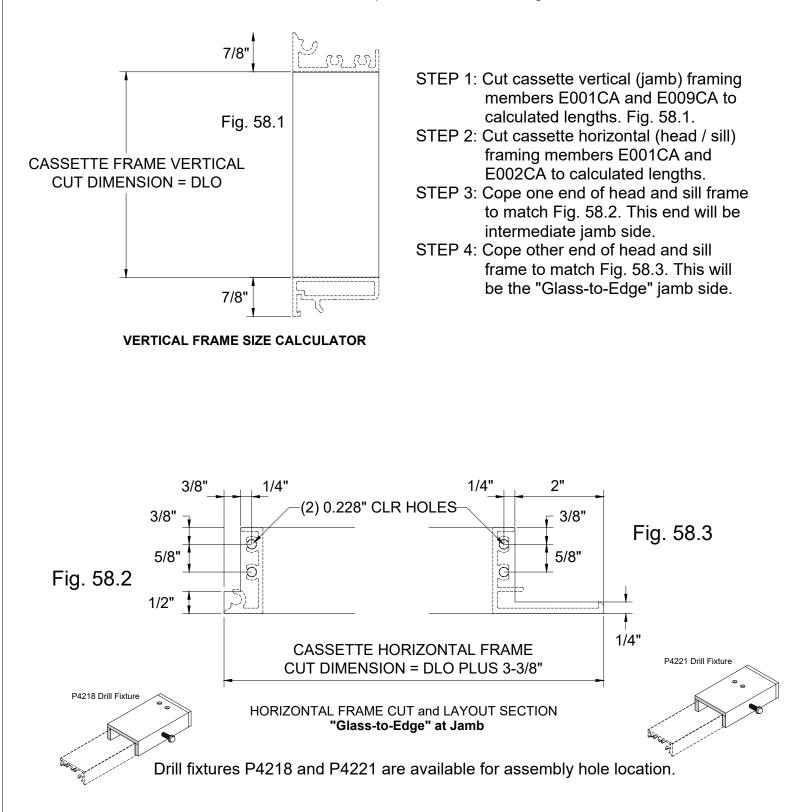
NOTE: Cassette frames sizes based on 400SS back members or 2-1/2" profile back members.

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#### 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



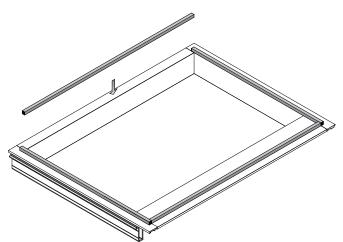


# **CASSETTE GLASS SIZE CALCULATOR -**DEPE "Glass-to-Edge" Jamb CURTAINWALL AND ENTRANCE SYSTEMS Cassette frame overall glass size: Vertical glass size = Back member DLO plus 1-3/4" Horizontal glass size = Back member DLO plus 3-3/8" ້ E001CA CASSETTE VERTICAL GLASS DIMENSION EQUALS CASSETTE VERTICAL DIMENSION E002CA S ۶ ഹ Ω 2 \_£6 R E009CA E001CA



CASSETTE FRAME ASSEMBLY - "Glass-to-Edge" Jamb DEPENDABLE LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS S375 S375 ALTERNATE JAMB ANCHOR INSTALLATION G E001CA G 2" min If the P4201 anchors are to be loaded in the jambs after the cassette frame had been assembled, the fabricator will need to remove the portion of the anchor receiver at the head of the jamb frames as shown above. S375 þ S375 P4201 <sup>[주]</sup> E002CA S375 S375 S 5 P4201 E001CA E009CA P4201 CASSETTE FRAME ASSEMBLY: STEP 1: Layout head, sill and jambs on table for assembly. STEP 2: Attach sill frame to jamb frames using S375 fasteners. S375 STEP 3: Slide correct number of P4201 jamb anchors into jamb anchor receivers. Jamb anchor count equals overall jamb dimension divided by 12" plus one. (ex: 72" jamb equals 6 anchors plus one...7 total) STEP 4: Attach head frame to jamb frames using S375 fasteners completing frame assembly. S375

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



LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

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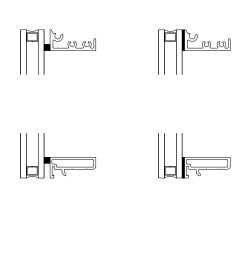
Apply tape at "V" groove at jamb. Follow DLO at head, sill and opposite jamb.

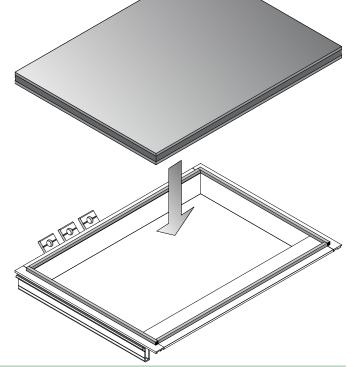
P4211 3M VHB

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)







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

#### CASSETTE SSG GLAZING

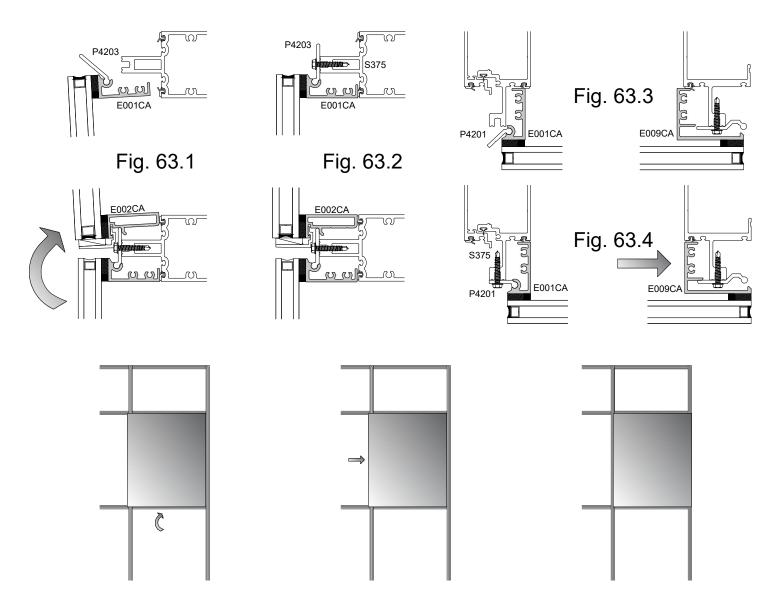
- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- 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 P4203 as shown at Fig. 63.1. Note location of jamb frame position shown at Fig. 63.3
- STEP 2: Roll head of frame toward back member support framing as shown at Fig. 63.2.
- 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 P4203, 12" o/c, maximum 2" from ends. See Fig. 63.2
- STEP 5: Attach pre-installed jamb anchor clips P4201, 12" o/c, maximum 2" from ends.



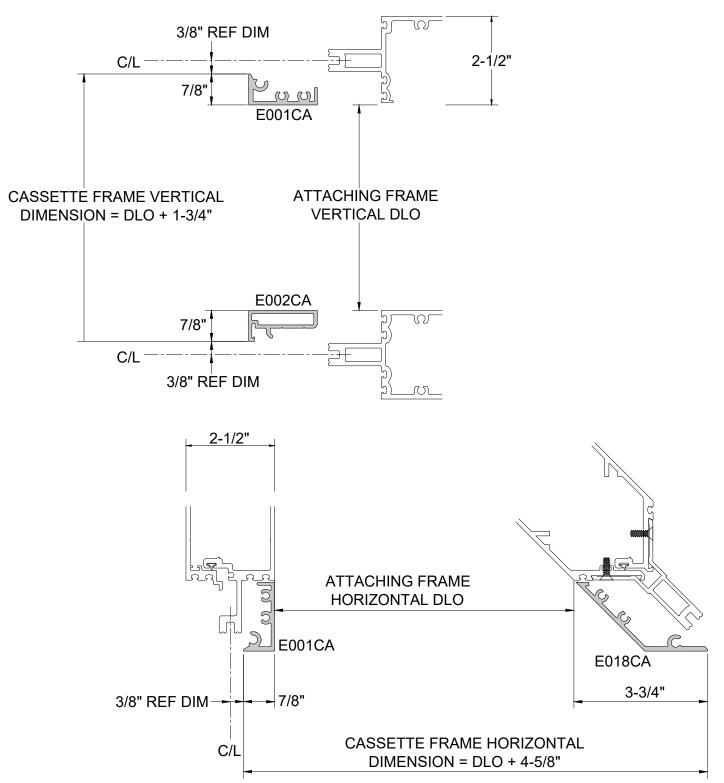
Partial elevation showing cassette frame movements for installation



#### **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 4-5/8"

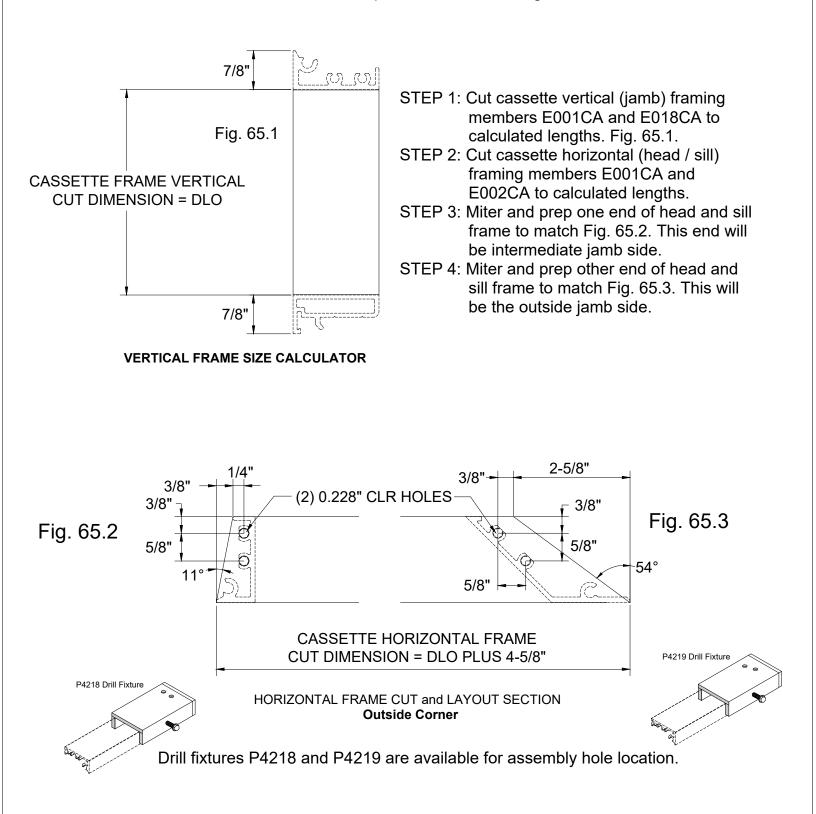


NOTE: Cassette frames sizes based on 400SS back members or 2-1/2" profile back members.



#### **CASSETTE FRAME CUT SIZE CALCULATOR - Outside Corner**

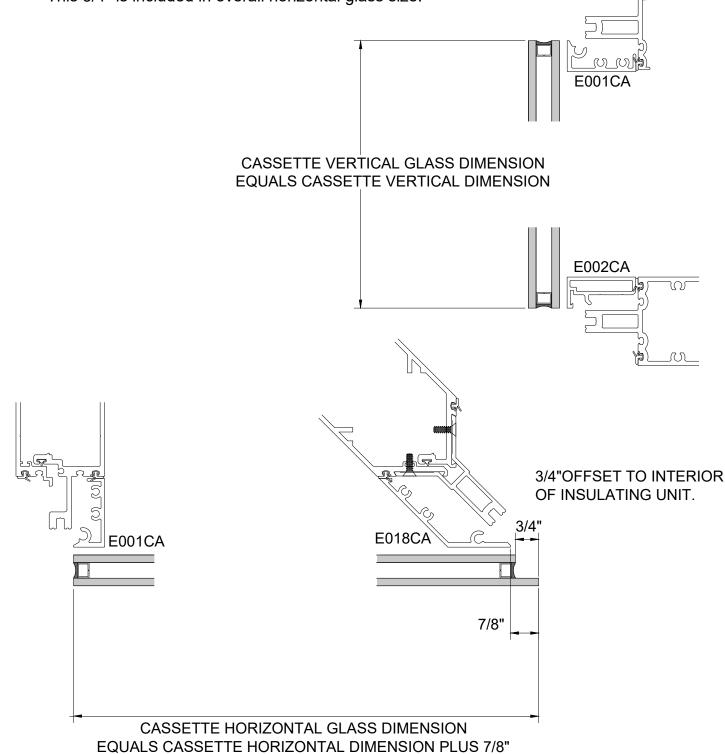
Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame Horizontal frame member cut size = DLO plus 4-5/8" of attaching frame



## CASSETTE GLASS SIZE CALCULATOR

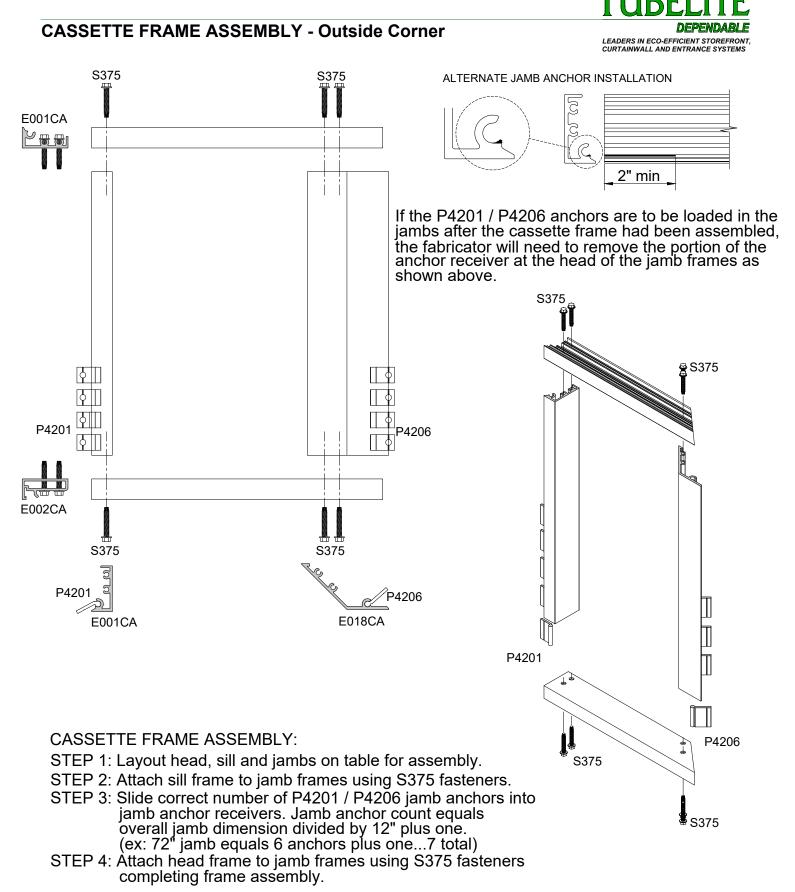
Cassette frame overall glass size: Vertical glass size = Back member DLO plus 1-3/4" Horizontal glass size = Back member DLO plus 5-1/2"

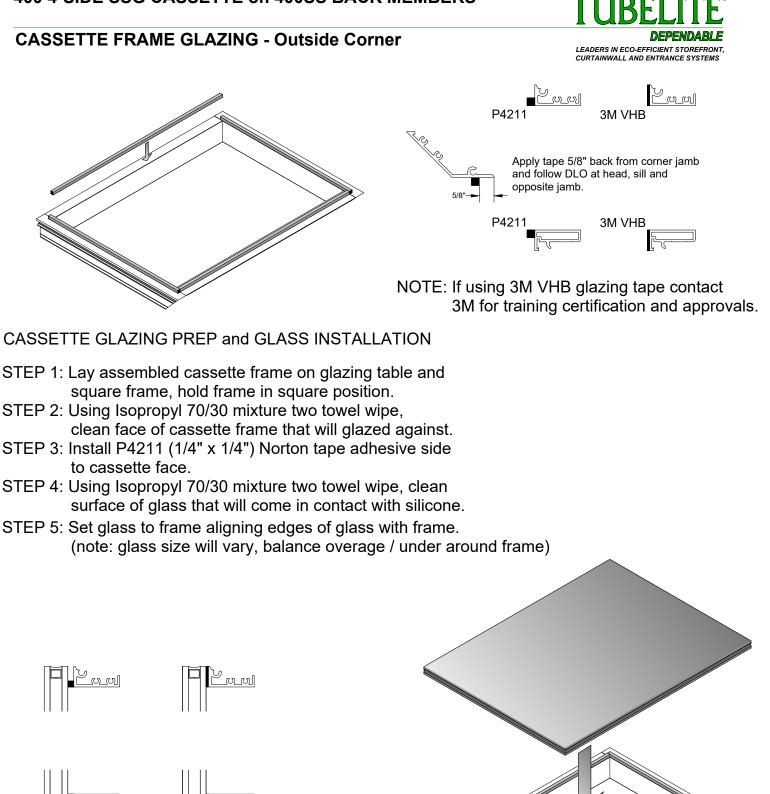
Note: Outside glass lite extends past interior light 3/4". This 3/4" is included in overall horizontal glass size.





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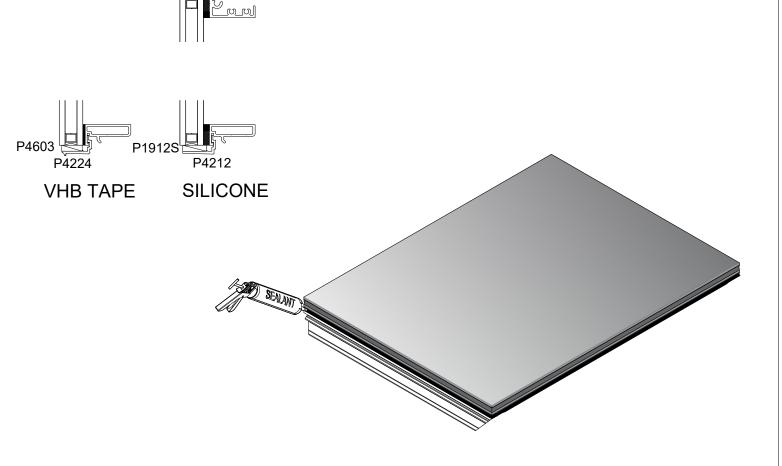




#### CASSETTE FRAME GLAZING - Outside Corner, cont.

#### 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.

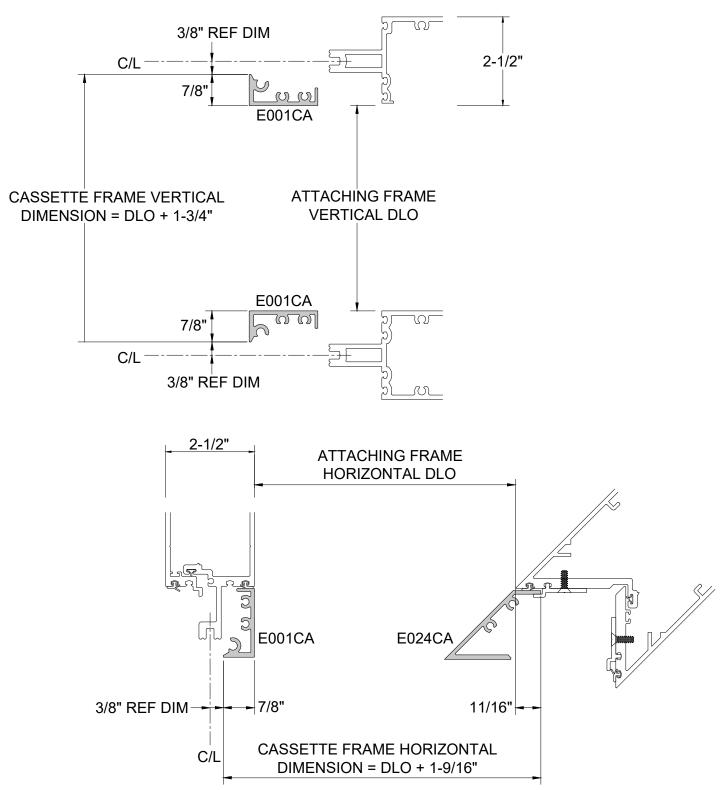




#### **CASSETTE FRAME SIZE CALCULATOR - Inside Corner**

Cassette frame overall dimension:

Vertical frame dimension: Back member DLO plus 1-3/4" Horizontal frame dimension: Back member frame DLO plus 1-9/16".



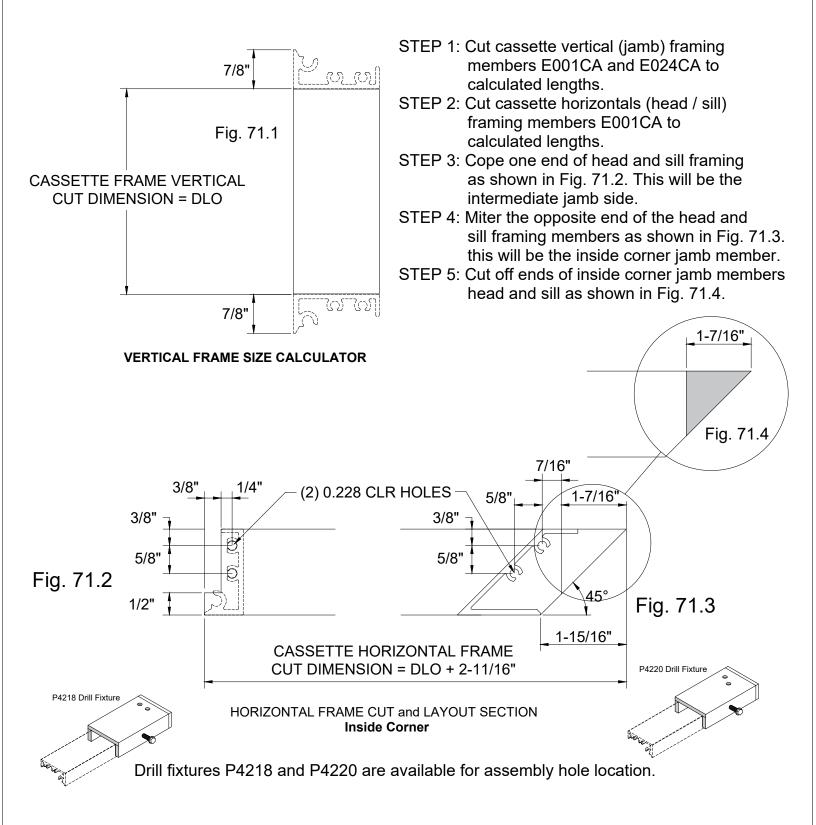
NOTE: Cassette frames sizes based on 400SS back members or 2-1/2" profile back members.

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#### **CASSETTE FRAME CUT SIZE CALCULATOR - Inside Corner**

Cassette frame member Vertical / Horizontal cut size: Vertical frame member cut size = DLO of attaching frame PLUS 2-11/16" Horizontal frame member cut size = DLO of attaching frame



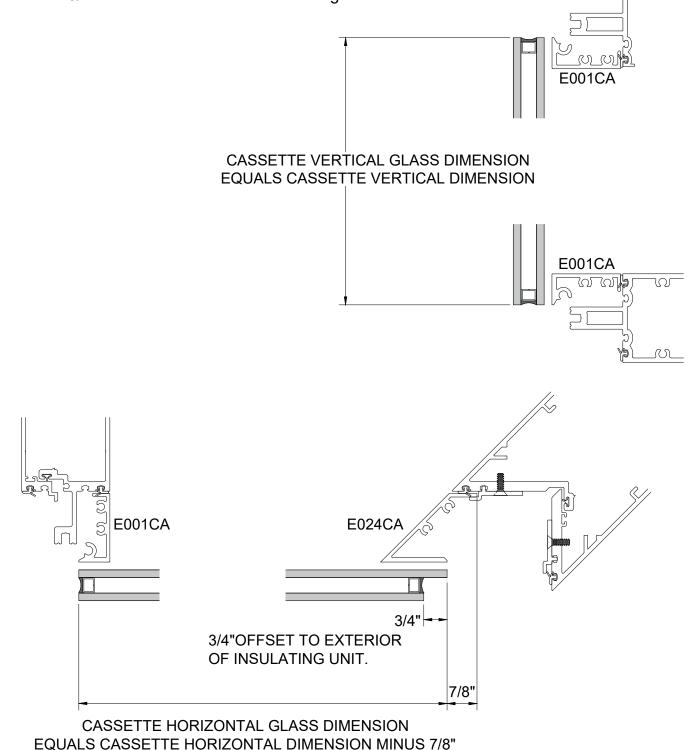


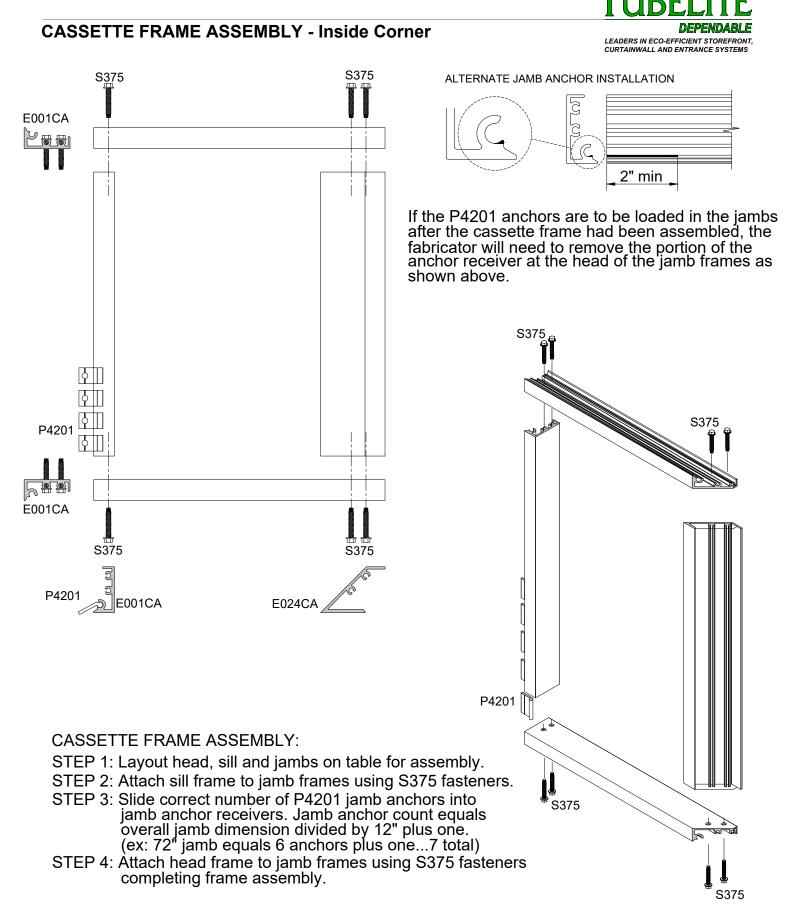
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## **CASSETTE GLASS SIZE CALCULATOR - Inside Corner**

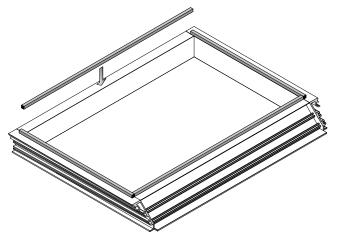
Cassette frame overall glass size: Vertical glass size = Back member DLO PLUS 1-3/4" Horizontal glass size = Back member DLO PLUS 3/4"

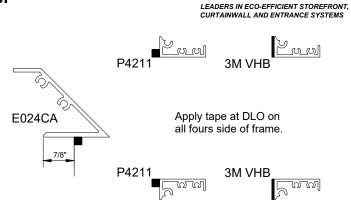
Note: Interior glass lite extends past interior light 3/4". This 3/4" is included in overall horizontal glass size.









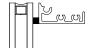


NOTE: If using 3M VHB glazing tape contact 3M for training certification and approvals.

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#### CASSETTE GLAZING PREP and GLASS INSTALLATION

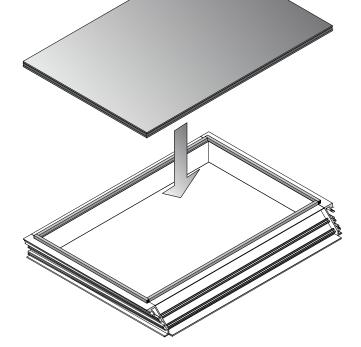
- STEP 1: Lay assembled cassette frame on glazing table and square frame, hold frame in square position.
- STEP 2: Using Isopropyl 70/30 mixture two towel wipe, clean face of cassette frame that will glazed against.
- STEP 3: Install P4211 (1/4" x 1/4") Norton tape adhesive side to cassette face.
- STEP 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)









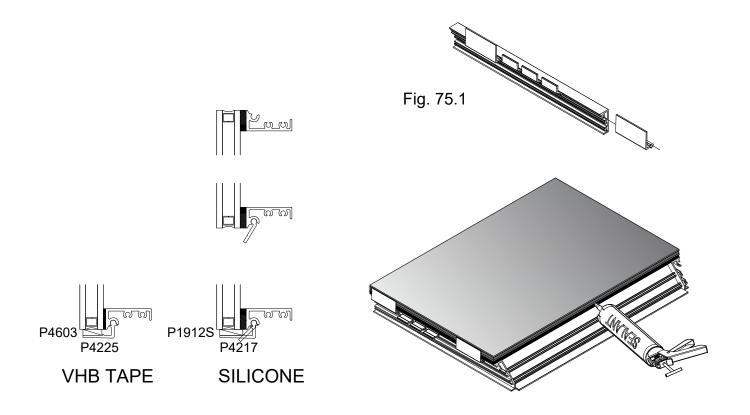


#### **CASSETTE FRAME GLAZING - Inside Corner cont.**



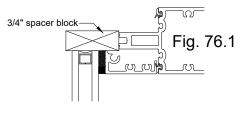
CASSETTE SSG GLAZING

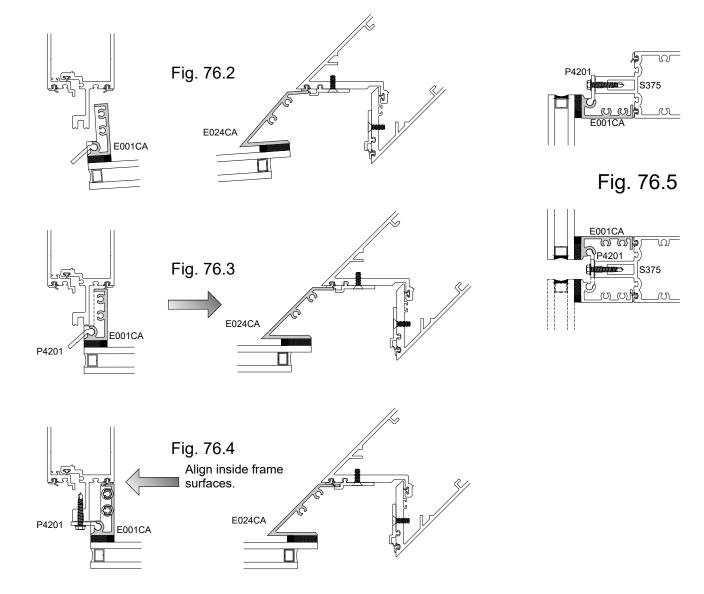
- NOTE: Glazing contractor is responsible for selection and proper installation of silicone for glass to cassette attachment / glazing. Follow manufacturer's recommendations for application...environmental conditions, curing time and handling. (Dow 995 was used by Tubelite for performance mock up)
- STEP 1: Fill void between cassette frame and glass with silicone.
- STEP 2: Tool silicone around perimeter of frame.
- STEP 3: Prior to installing setting block chair P4217 install correct number of center anchors P4201 as shown in Fig. 75.1.
- STEP 4: Install setting block chair P4217 and setting block P1912S at quarter points. (Use setting block chair P4225 and setting block P4603 at quarter points when using VHB glazing tape.)
- STEP 5: Move unit making sure not to disturb glass / cassette frame and let cure per manufactures' recommendations.



### **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. 76.1
- STEP 2: Place Cassette frame inside corner jamb in position at inside corner insert. Refer to Fig. 76.2.
- STEP 3: Rotate cassette frame towards back member framing to align with spacer gaskets. Refer to Fig. 76.3.
- 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. 76.4
- STEP 5: Attach head anchor clips P4201 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. 76.5.
- STEP 6: Continue anchoring anchor clips P4201 at sill and jamb.



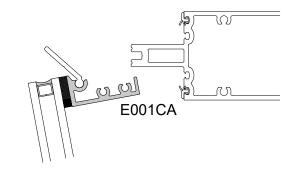




### **CASSETTE FRAME INSTALLATION - Typical Framing**

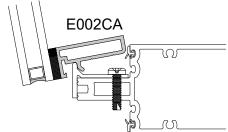
TYPICAL CASSETTE FRAME INSTALLATION

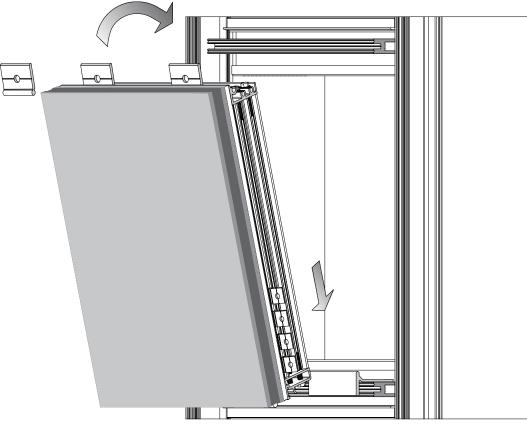
- Step 1: Select Cassette frame to be installed and install determined head anchor clips P4201 or P4203. (P4200 head anchor used at final top unit)
- Step 2: Set Cassette frame on sill dead load clip P4223 as shown at Fig. 77.1.
- Step 3: Roll Cassette frame towards back framing member.
- Step 4: Secure head anchor clip at center of Cassette frame.
  - (note: cassette frame is now secure in opening)





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

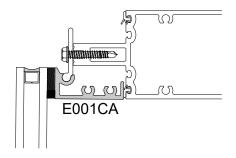




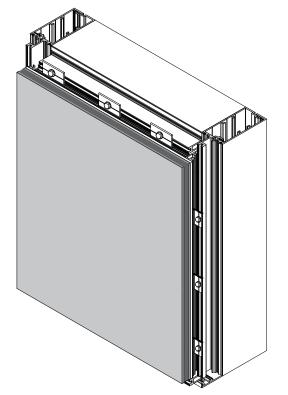
## **CASSETTE FRAME INSTALLATION - Typical Framing**

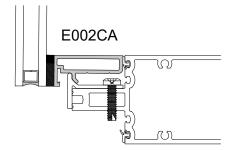
TYPICAL CASSETTE FRAME INSTALLATION - cont.

- Step 5: Secure head anchor clip at center of Cassette frame. (note: cassette frame is now secure in opening)
- Step 6: Continue installing head anchor clips at 12" o/c and and no more than 2" from ends of Cassette frame.
- Step 7: Slide Cassette jamb anchors P4200 into position starting at the top of the jamb working towards sill of unit. 12" o/c and no more than 2" from ends of Cassette frame.







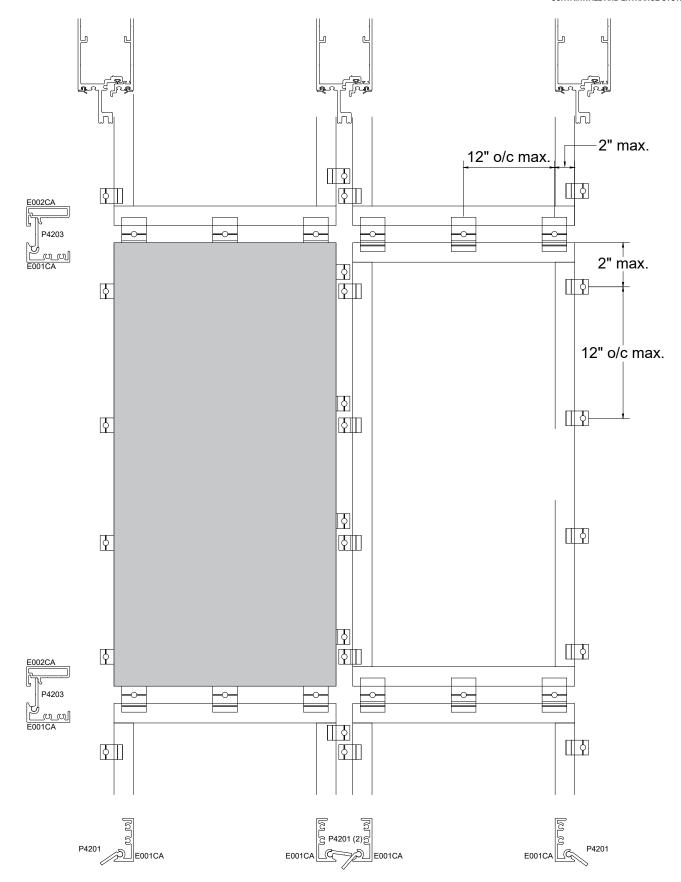




**CASSETTE FRAME INSTALLATION - Typical Anchor Pattern** 

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

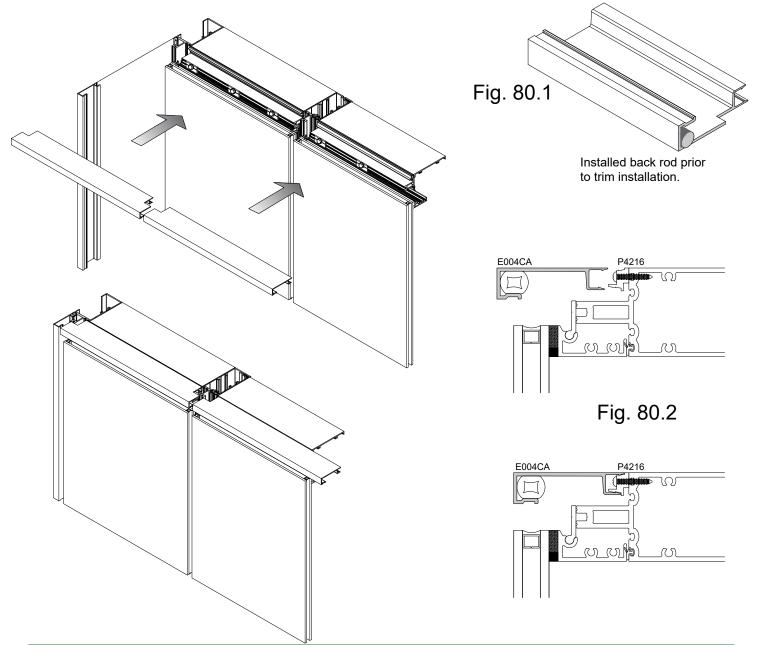
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#### CASSETTE FRAME PERIMETER CLOSURE TRIM INSTALLATION

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

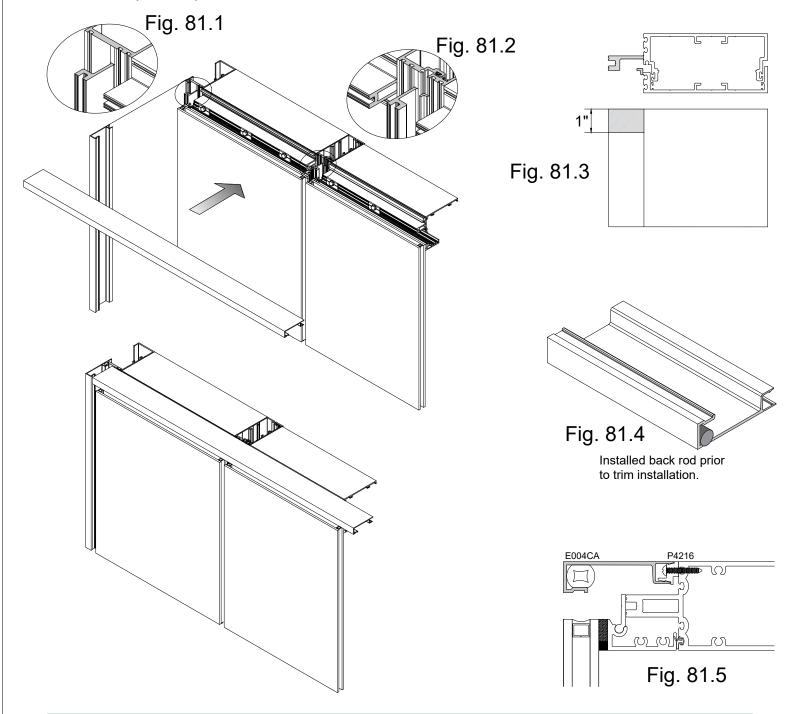
- STEP 1: Measure horizontally between curtain wall stems, subtract 1/8" and cut closure E004CA to length.
- STEP 2: Remove / cope back of E004CA closure trim to clear curtain wall stem as shown in Fig. 80.1.
- STEP 3: Install section of back rod behind front face as shown in Fig. 80.1.
- STEP 4: Using 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. 80.2.
- 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.

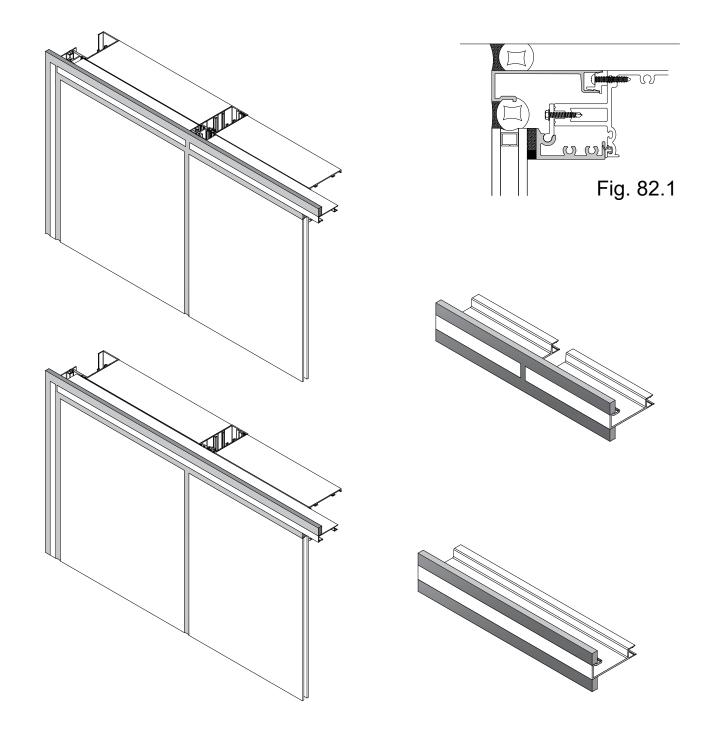
- STEP 1: Verify copes are present at vertical stems, heads and sills of back members shown at Fig. 81.1 & Fig. 81.2 as dimensioned Fig. 81.3
- STEP 2: Install section of back rod behind front face as shown in
  - Fig. 81.4. at horizontal and vertical splice.
- STEP 3: Using a rubber mallet and piece of wood blocking place E004CA trim over P4216 PVC separator and tap into place until trim snaps over P4216, Fig. 81.5.
- STEP 4: Repeat step 3 and install vertical closure trim.



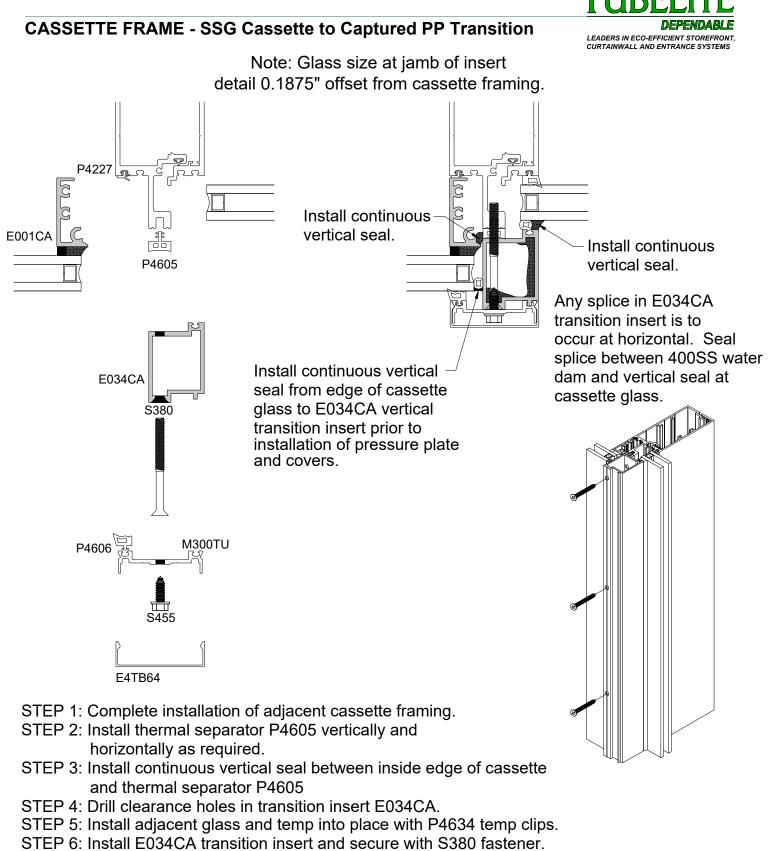
LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

#### 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. 82.1.



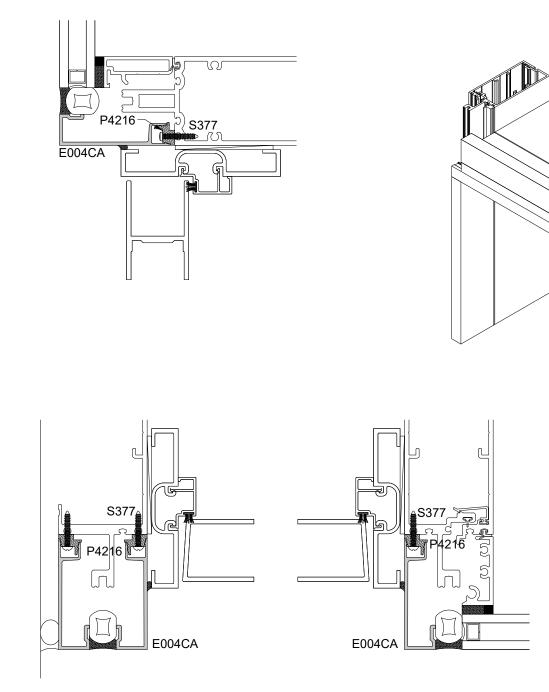




- STEP 7: Install continuous vertical seal between E034CA insert and cassette glass.
- STEP 8: Install continuous vertical seal between E034CA and curtain wall glass.
- STEP 9: All splices in E034CA are to be sealed and seal tied to 400SS adjacent water dams.
- STEP 10: Install pressure plates and covers per 400SS installation manual.



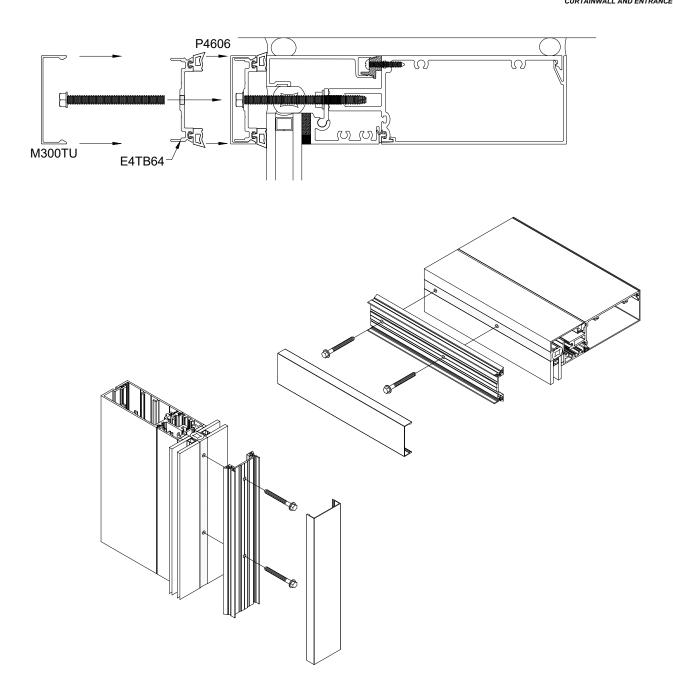
### **CASSETTE FRAME - Door Frame Trim Out**



- 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.



#### **CASSETTE FRAME - Exterior Accent Cover Installation**



- STEP 1: Cut pressure plate E4TB64 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 E4TB64 in position and mark or drill holes in joint sealant.
- STEP 3: Fill drilled hole with sealant.
- STEP 4: Install gasket P4606 onto E4TB64.
- STEP 5: Hold E4TB64 in position and secure with S403 fastener..use all holes in E4TB64 pressure plate.
- STEP 6: Use blocking and tap cover (M300TU) into position.