

GENERAL NOTES

THESE INSTALLATION INSTRUCTIONS ARE A SUPPLEMENT TO THE APPROVED SHOP DRAWINGS. USE IN CONJUNCTION WITH THOSE DRAWINGS.

1 - HANDLING, STORING AND PROTECTING ALUMINUM MATERIAL.

THE FOLLOWING PRECAUTIONS ARE RECOMMENDED TO ASSURE EARLY ACCEPTANCE OF YOUR PRODUCTS AND WORKMANSHIP.

A - HANDLE CAREFULLY - DO NOT DROP FROM THE TRUCK. STACK WITH ADEQUATE SEPARATION SO MATERIAL WILL NOT RUB TOGETHER. STORE OFF THE GROUND. PROTECT AGAINST ELEMENTS AND OTHER CONSTRUCTION TRADES.

B - KEEP MATERIAL AWAY FROM WATER, MUD AND SPRAY - PREVENT CEMENT, PLASTER AND OTHER MATERIALS FROM DAMAGING THE FINISH.

C - PROTECT THE MATERIALS AFTER ERECTION, BY WRAPPING WITH KRAFT PAPER - OR BY ERECTING VISQUEEN/CANVAS SPLATTER SCREENS. CEMENT, PLASTER, TERRAZZO AND OTHER ALKALINE MATERIALS ARE VERY HARMFUL TO THE FINISH AND SHOULD BE REMOVED WITH WATER AND MILD SOAP BEFORE SETTING OCCURS. UNDER NO CIRCUMSTANCES ALLOW THESE MATERIALS TO DRY OR PERMANENT STAINING WILL OCCUR.

2 - GENERAL RULES

THE FOLLOWING PRACTICES ARE RECOMMENDED FOR ALL WALL INSTALLATIONS.

A - READ COMPLETE INSTRUCTIONS BEFORE ORDERING GLASS OR FABRICATING MATERIAL.

B - CHECK SHOP DRAWINGS TO BECOME THOROUGHLY FAMILIAR WITH THE JOB.

C - ALL MATERIALS ARE TO BE INSTALLED PLUMB, LEVEL AND TRUE.

D - ALL WORK SHOULD START FROM ESTABLISHED BENCH MARKS AND COLUMN CENTER LINES ESTABLISHED BY THE ARCHITECTURAL DRAWINGS AND THE GENERAL CONTRACTOR.

E - THE SEQUENCE OF ERECTION SHOULD BE COORDINATED WITH THE JOB SUPERINTENDENT SO DELAYS ARE PREVENTED AND RISK OF MATERIAL DAMAGE IS MINIMIZED.

IF PRESETTING OF ANCHORAGE IS REQUIRED, COORDINATE WITH GENERAL CONTRACTOR AND SUPERVISE LOCATION.

F - MAKE CERTAIN CONSTRUCTION WHICH WILL RECEIVE YOUR MATERIALS IS ACCORDING TO THE CONTRACT DOCUMENTS. IF NOT, NOTIFY THE GENERAL CONTRACTOR IN WRITING AND RESOLVE DIFFERENCES BEFORE PROCEEDING WITH YOUR WORK.

G - INSULATE ALL ALUMINUM TO BE PLACED DIRECTLY IN CONTACT WITH THE MASONRY OR INCOMPATIBLE MATERIALS WITH A HEAVY COAT OF ZINC CHROMATE OR BITUMINOUS PAINT.

H - FOLLOW KAWNEER INSTALLATION AND GLAZING INSTRUCTIONS.

J - CHECK ALL MATERIAL ON ARRIVAL FOR QUANTITY.

K - BE SURE YOU HAVE ALL THE MATERIALS AND TOOLS NEEDED TO BEGIN THE INSTALLATION.
1 - APPROVED SHOP DRAWINGS
2 - LEVEL AND PLUMB (TRANSIT)
3 - FASTENERS AND REQUIRED DRIVERS.
4 - PERIMETERS AND ACCESSORIES SUCH AS ANCHORS, FASTENERS, SLEEVES AND/OR SPLICE CAPS.
5 - SEALING MATERIALS.
6 - GLAZING MATERIALS.

L - FOLLOW SEALANT MANUFACTURER'S RECOMMENDATIONS FOR PROPER SEALANT AND APPLICATION.

ALL SEALANTS AND MASTICS MUST BE COMPATIBLE WITH ALL SURFACES INCLUDING OTHER SEALANT SURFACES.

WHERE REQUIRED ALL SEALANTS MUST ADHERE TO ALL SURFACES INCLUDING OTHER SEALANT SURFACES.

1600 SYSTEM 2 NOTES

FRAMING
1600 SYSTEM 2 WITH VERSOLEIL OUTRIGGER SUNSHADES IS AVAILABLE WITH 1" FRAMING MEMBERS WHICH ACCEPT BOTH 1" AND 1/4" INFILLS. 1/4" FRAMING MEMBERS CANNOT BE USED IN CONJUNCTION WITH THE VERSOLEIL OUTRIGGER SUNSHADES.

CAPTURED VS STRUCTURAL GLAZED
THE TERM "CAPTURED VERTICALS OR CAPTURED HORIZONTALS" WILL BE USED THROUGHOUT THESE INSTRUCTIONS. THIS MEANS FRAMING MEMBERS THAT ACCEPT AN EXTERIOR PRESSURE PLATE AND COVERS. "STRUCTURAL GLAZED VERTICALS" DO NOT ACCEPT EXTERIOR METAL.

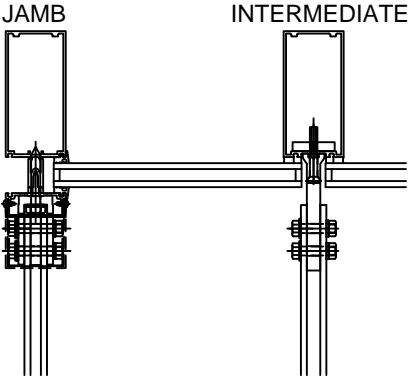
1600 SYSTEM 2 NOTES (CONT.)

GLASS BITE NOTES
GLASS BITE IS 1/2" AT CAPTURED VERTICALS AND HORIZONTALS. **GLASS BITE IS 3/4" AT STRUCTURAL GLAZED VERTICALS.** DO NOT USE STANDARD 1600 SYSTEM 2 STRUCTURAL GLAZED VERTICAL DETAILS, WHICH HAVE A 1" GLASS BITE. 1600 SYSTEM 2 WITH SUNSHADE OUTRIGGERS HAVE A SMALLER GLASS BITE IN ORDER TO ACCOMMODATE THE STEM ANCHOR ATTACHMENT TO THE VERTICAL MULLIONS. GLASS SIZES MUST BE CALCULATED FROM APPROVED SHOP DRAWINGS.

SEALANT
UNLESS OTHERWISE SPECIFIED, IT IS RECOMMENDED THAT SILICONE SEALANT BE USED FOR ALL INTERNAL SEALS.

SEALANT MUST BE APPLIED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS AND PASS ALL ADHESION AND COMPATIBILITY TESTING. AT ALL JOINT SEALS, SEALANT MUST ADHERE TO METAL, GASKETS, THERMAL SEPARATOR AND JOINT PLUG MATERIALS. CLEAN ALL SURFACES PRIOR TO APPLICATION OF SEALANT AND PRIME WHERE NECESSARY TO ACHIEVE PROPER ADHESION.

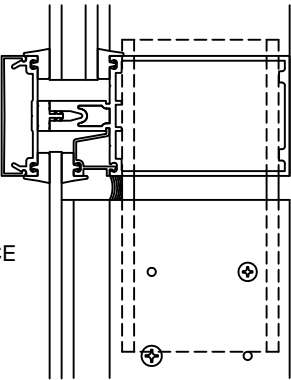
JAMBS
VERSOLEIL OUTRIGGER SUNSHADES USED IN CONJUNCTION WITH SYSTEM 2 INTERMEDIATE FRAMING MEMBERS UTILIZE 1600 SYSTEM 1 FRAMING AND SUNSHADE ATTACHMENTS AT JAMB CONDITIONS. REFERENCE VERSOLEIL OUTRIGGER SUNSHADE 1600 SYSTEM 1 INSTALLATION INSTRUCTIONS (494970) AND APPROVED SHOP DETAILS FOR JAMB CONDITIONS.



VERTICAL MULLION SPLICE
VERTICAL MULLIONS THAT ARE STRUCTURALLY GLAZED MUST BE SPLICED AT A HORIZONTAL. LOCATION OF THIS SPLICE MUST BE REVIEWED FOR STRUCTURAL INTEGRITY BY FACTORY ENGINEERING. SHIM ALL SILL HORIZONTALS AT SETTING BLOCK LOCATIONS.

NOTE: JAMB BRACKETS OR INTERMEDIATE STEM ANCHORS CAN NOT SPAN A FRAMING SPLICE JOINT

TYPICAL SPLICE LOCATION VISION OVER SPANDREL HORIZONTAL



494975 (SHEET 01 OF 22)

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STRUCTURAL SEAL NOTES

STRUCTURAL SILICONE SEAL - THE GLAZING INSTALLER IS RESPONSIBLE FOR SELECTING AND CONTACTING THE SILICONE MANUFACTURER TO DETERMINE WHICH TYPE OF SILICONE IS TO BE USED AND WHAT SAMPLES ARE REQUIRED TO BE STRUCTURAL SEAL NOTES SUBMITTED FOR ADHESION AND COMPATIBILITY TESTING.

THE SILICONE SEALANT SHALL NOT BE APPLIED TO KAWNEER PRODUCTS WITHOUT THE APPROVAL OF THE SILICONE MANUFACTURER AND UNTIL ALL REQUIRED TESTING IS COMPLETED AND DETAILED APPLICATION INSTRUCTIONS HAVE BEEN DELIVERED TO THE INSTALLER BY THE SILICONE MANUFACTURER.

IF YOU FIND THE SILICONE MANUFACTURER'S INSTALLATION INSTRUCTIONS ARE NOT IN ACCORDANCE WITH KAWNEER'S INSTALLATION INSTRUCTIONS, IT IS YOUR RESPONSIBILITY TO NOTIFY KAWNEER OF THIS CONFLICT PRIOR TO GLAZING.

YOUR GLASS SUPPLIER MUST BE MADE AWARE THAT THEIR GLASS WILL BE USED IN A SSG APPLICATION. THE APPLICATION MUST BE APPROVED BY THE GLASS SUPPLIER PRIOR TO GLAZING.

ANY STRUCTURAL SILICONE GLAZED PRODUCT APPLICATION THAT IS NOT SHOWN IN KAWNEER'S STANDARD PRODUCT LITERATURE MUST BE PRE-APPROVED BY KAWNEER.

EXTERIOR GLASS WEATHER SEAL - SEALANT TO BE A TYPE AS RECOMMENDED BY THE MANUFACTURER OF THE STRUCTURAL SEALANT BEING USED FOR THIS PROJECT.

SEALANT MUST BE APPLIED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS. WEATHER SEAL SEALANT MUST ADHERE TO EXTERIOR GASKET MATERIAL.



1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

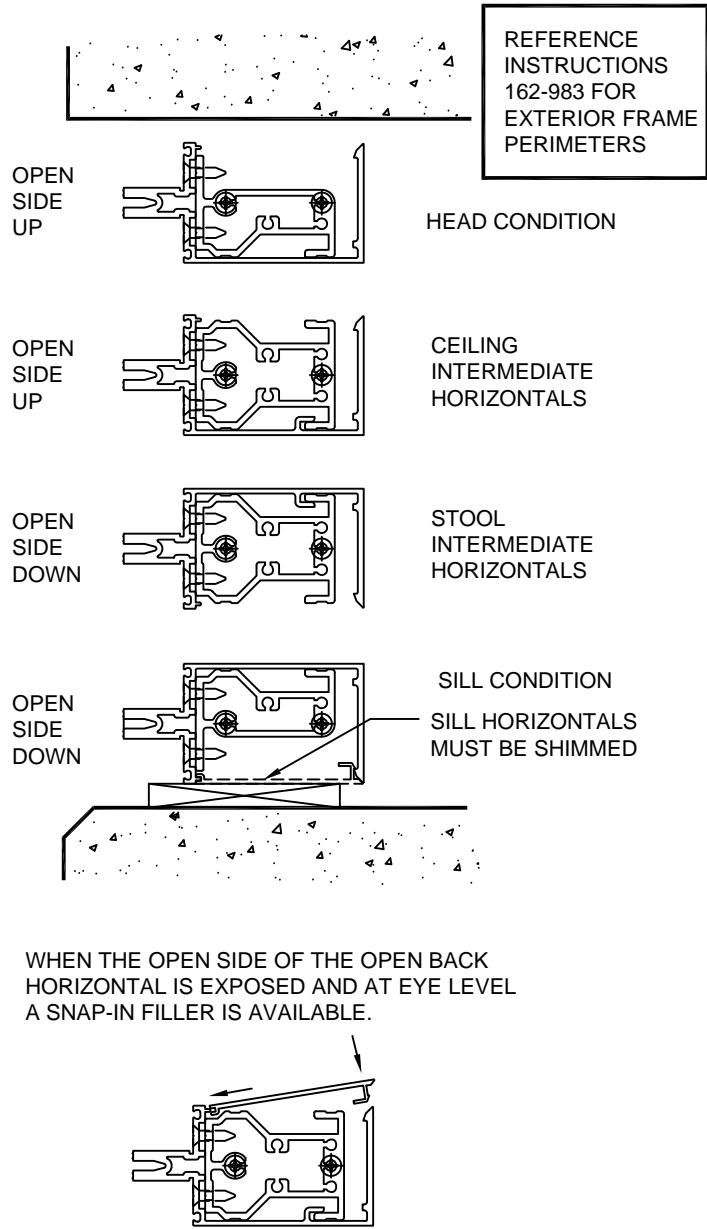
494975 (SHEET 01 OF 22)

OPEN BACK HORIZONTAL NOTES

THE OPEN BACK HORIZONTAL IS TO BE TYPICALLY USED FOR ALL HEAD/SILL AND LAST BAY INTERMEDIATE HORIZONTALS.

THE OPEN BACK HORIZONTAL CAN BE USED AT OTHER CONDITIONS IF IT IS AN ADVANTAGE TO THE JOB DESIGN.

THE SHEAR BLOCK AT ALL OPEN BACK INTERMEDIATE HORIZONTALS HAS THE OPTION TO BE PRE-INSTALLED INTO THE HORIZONTAL BEFORE HORIZONTALS ARE INSTALLED



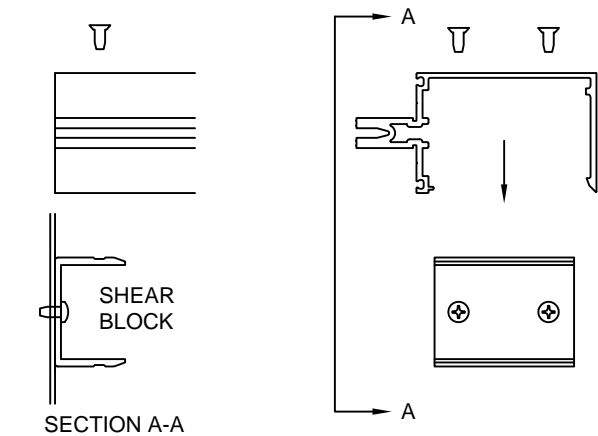
WHEN THE SNAP-IN FILLER IS NOT USED, AND DUE TO STANDARD COMMERCIAL EXTRUDING TOLERANCES, IT MAY BE REQUIRED TO USE A 4" PIECE OF THE FILLER AT EACH END OF A HORIZONTAL.

USE PART 162-316 FOR THE 6" DEEP SYSTEM
USE PART 162-317 FOR THE 7-1/2" DEEP SYSTEM

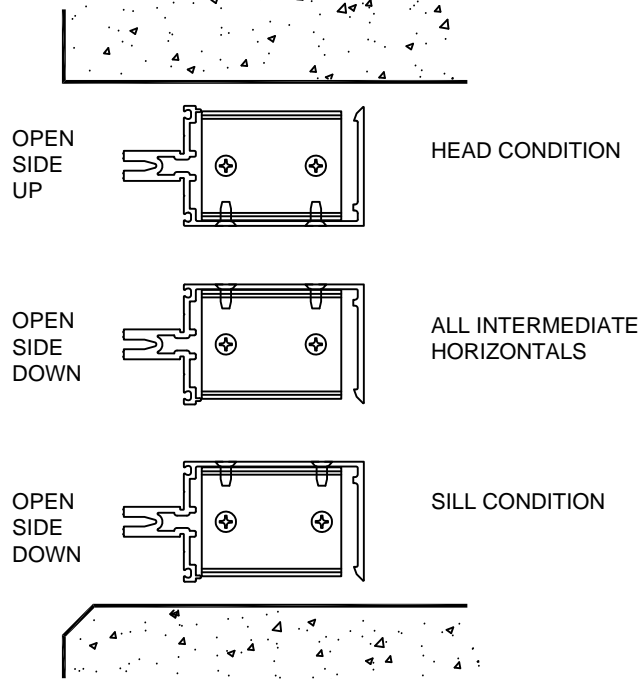
OPEN BACK HORIZONTALS AT 90° AND 135° CORNERS

WHENEVER POSSIBLE AVOID USING OPEN BACK HORIZONTALS AT 90° AND 135° CORNERS. IF USING THE OPEN BACK HORIZONTAL BECOMES ABSOLUTELY NECESSARY THE SHEAR BLOCK CONNECTION WILL BE AS SHOWN BELOW.

ALSO REFER TO CORNER INSTRUCTIONS 162-973



THE OPEN SIDE OF THE OPEN BACK HORIZONTAL IS TO BE POSITIONED AS SHOWN BELOW. THE INTERMEDIATE HORIZONTAL IS POSITIONED OPEN SIDE DOWN FOR DEAD LOAD SUPPORT.



STEP - 1 CHECK OPENINGS

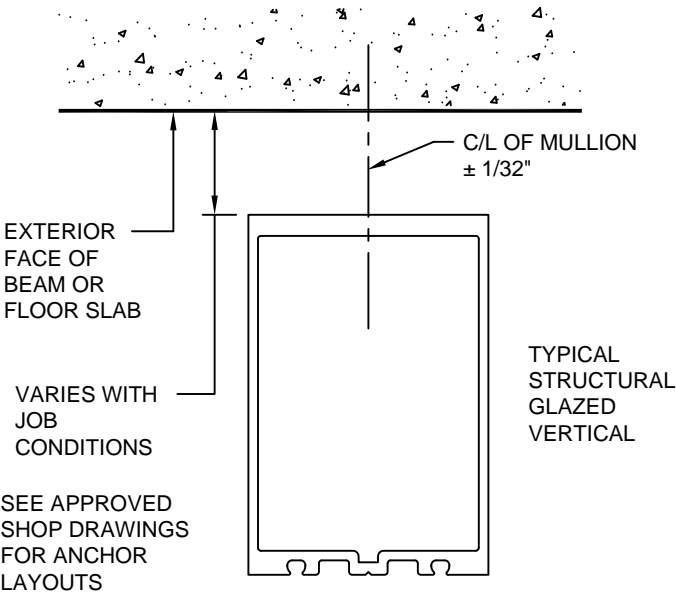
ELEVATIONS AND SLABS MUST BE WITHIN ADJUSTMENT OF ANCHORING SYSTEM. SEE APPROVED SHOP DRAWINGS FOR ALLOWABLE ADJUSTMENT.

ANCHORING SURFACES OF PERIMETER CONSTRUCTION MUST BE LEVEL AND PLUMB WITHIN THE ADJUSTMENT LIMITS OF THE HEAD, SILL AND JAMB. SEE APPROVED SHOP DRAWINGS FOR ALLOWABLE ADJUSTMENT.

STEP - 2 LAY OUT ANCHOR AND MULLION CENTERLINES

USE WALL LINES ESTABLISHED BY THE GENERAL CONTRACTOR. ON EACH FLOOR LAY OUT A REFERENCE LINE TO ESTABLISH IN AND OUT WALL LOCATIONS.

USE COLUMN CENTER LINES ESTABLISHED BY THE GENERAL CONTRACTOR. ON EACH FLOOR LAY OUT MULLION CENTER LINES AND ANCHOR CENTER LINES.



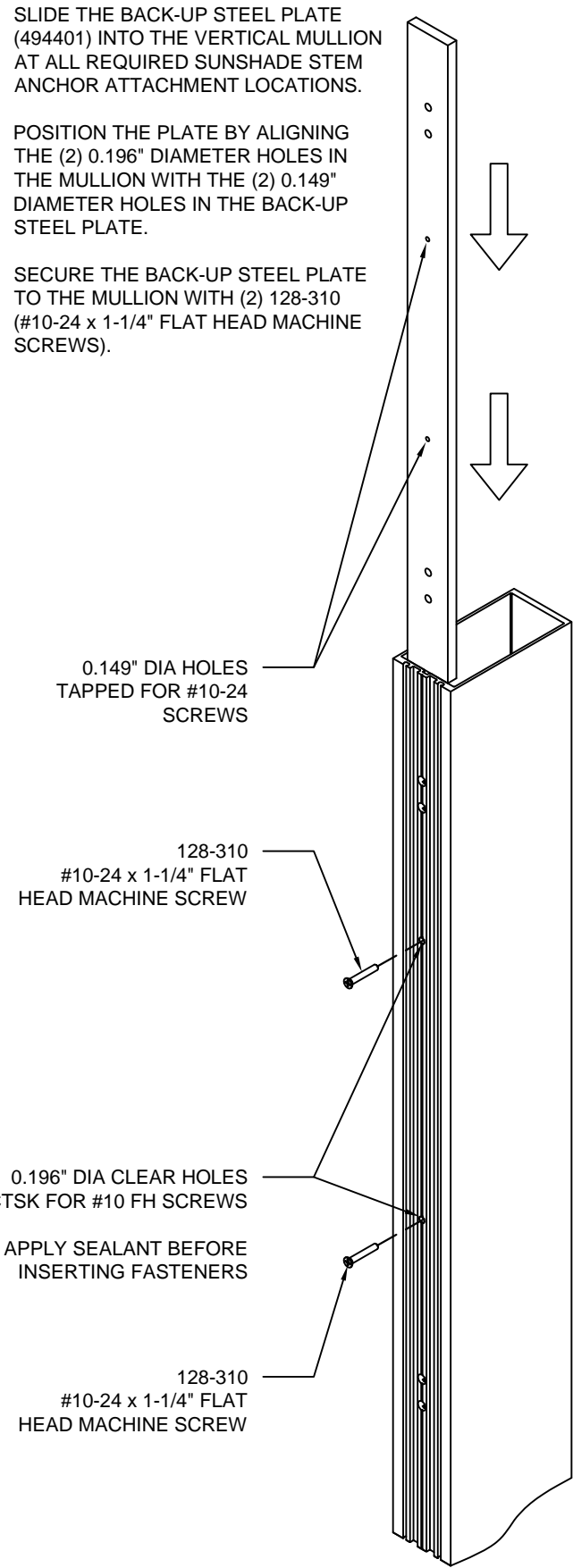
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STEP - 3 INSTALL PRE-SET ANCHORS IF APPLICABLE

USING LOCATION LINES PREVIOUSLY ESTABLISHED INSTALL PRE-SET ANCHORS IN PLACE PER APPROVED SHOP DRAWINGS.

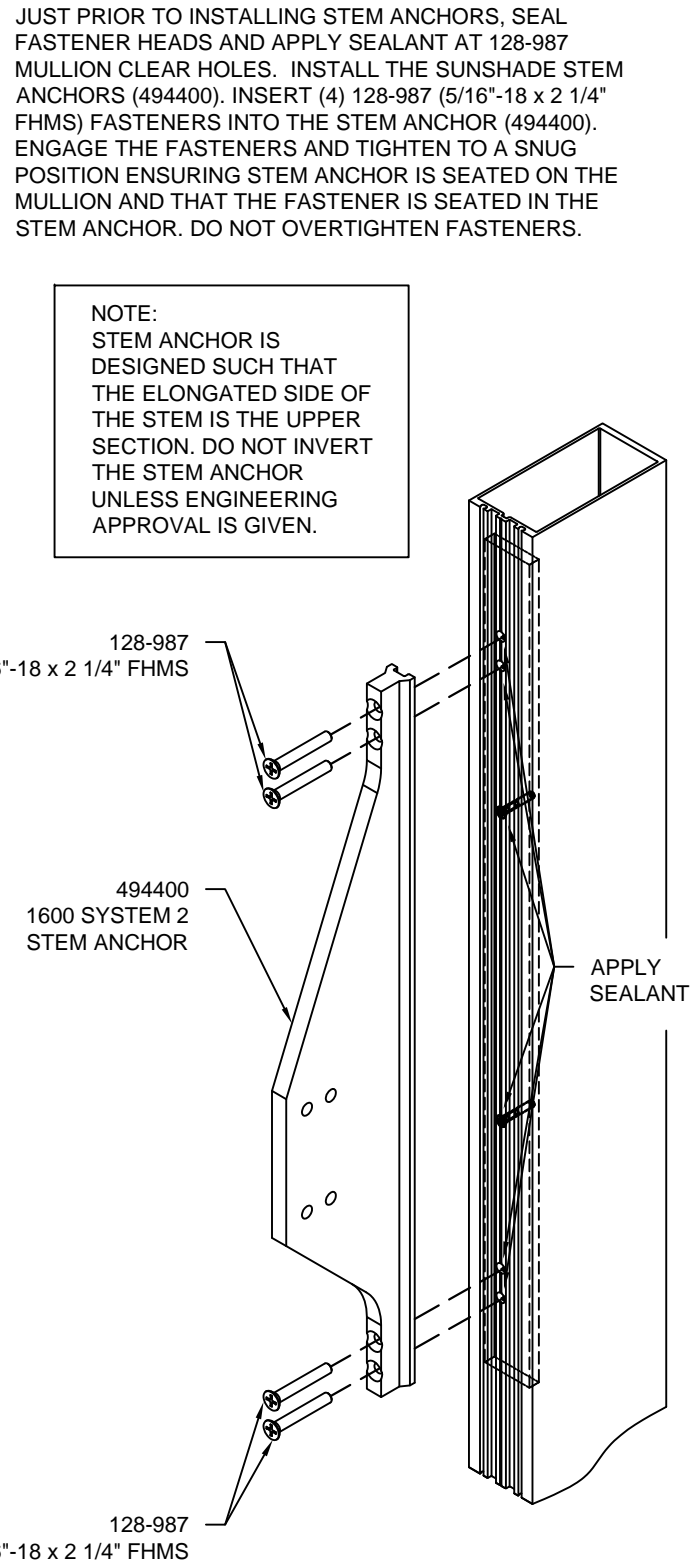
STEP - 4 FRAME ASSEMBLY

STRUCTURAL GLAZED VERTICALS



STEP - 4 FRAME ASSEMBLY

STRUCTURAL GLAZED VERTICALS



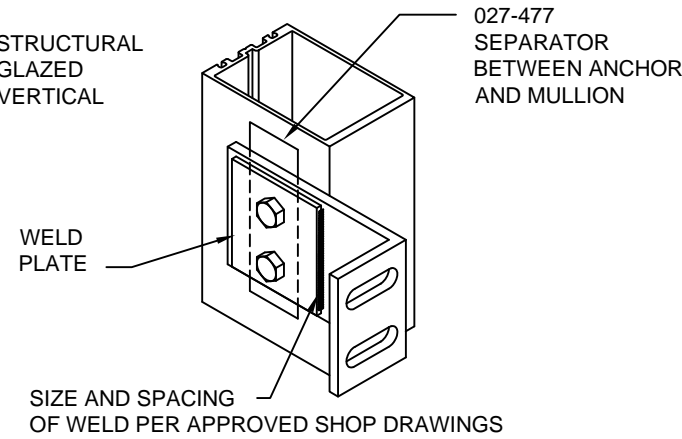
STEP - 4 FRAME ASSEMBLY

ATTACH ANCHORS TO MULLIONS WHERE APPLICABLE.

ANCHOR PREP MAY BE FABRICATED IN THE FIELD OR FACTORY. CONSULT APPROVED SHOP DRAWINGS FOR CORRECT METHOD.

STANDARD ANCHOR PREP IS THRU-BOLTED AT INTERMEDIATE VERTICALS AND TAPPING PLATES ARE USED AT JAMB VERTICALS. REFER TO APPROVED SHOP DRAWINGS FOR CORRECT METHOD.

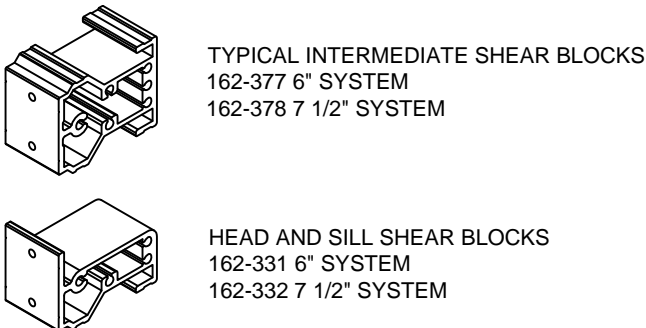
WHEN WELDING ANCHORS, PROTECT INSTALLED GLASS AND METAL FROM WELD SPLATTER. DETAILS SAME FOR "CAPTURED VERTICALS"



DO NOT OVER TIGHTEN ANCHOR CONNECTIONS. TIGHTEN TO A "SNUG TIGHT" POSITION WITH PARTS BROUGHT INTO GOOD CONTACT. BE SURE ANY SPRING TYPE LOCK WASHERS ARE COMPRESSED. THEN TIGHTEN APPROXIMATELY 1/2 MORE TURN.

ATTACH SHEAR BLOCKS. STRUCTURAL GLAZED VERTICAL

DETAILS SIMILAR FOR "CAPTURED VERTICALS"



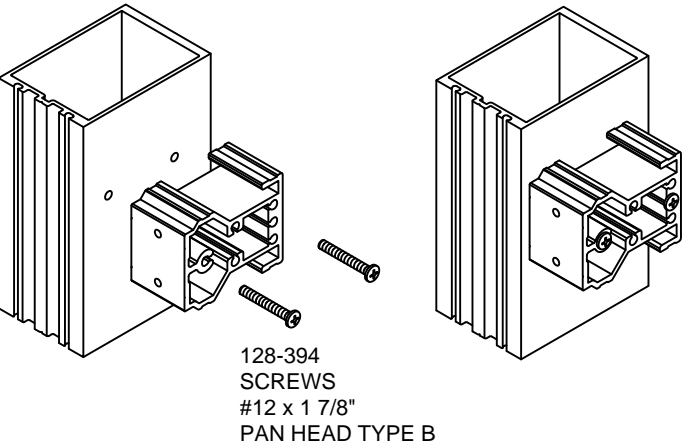
REFERENCE INSTRUCTIONS 162-983 FOR EXTERIOR FRAME PERIMETERS HEAD AND SILL SHEAR BLOCKS
162-384 6" SYSTEM
162-385 7 1/2" SYSTEM

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STEP - 4 FRAME ASSEMBLY

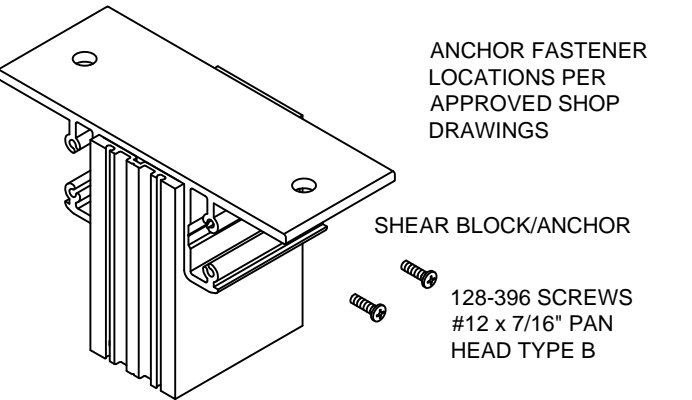
ATTACH SHEAR BLOCKS.



HEAD/SILL SHEAR BLOCK/ANCHOR WHERE APPLICABLE AND SHOWN BELOW.


162-314 6" SYSTEM AT JAMBS
162-315 7 1/2" SYSTEM AT JAMBS
162-342 6" SYSTEM AT MULLIONS
162-343 7 1/2" SYSTEM AT MULLIONS

STRUCTURAL INTEGRITY OF ANCHOR AND FASTENERS MUST BE CHECKED BY FACTORY ENGINEERS.



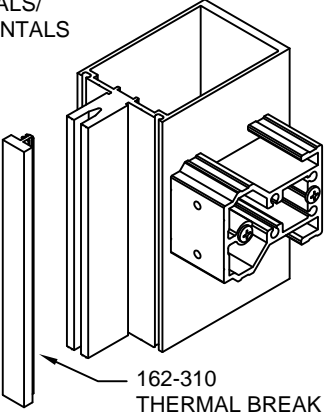
KAWNEER 1600 SYSTEM 2 WITH VERSOLEIL OUTRIGGER SUNSHADE INSTALLATION INSTRUCTIONS

STEP - 5 INSTALL 162-310 THERMAL BREAK



162-310

CAPTURED VERTICALS/ HORIZONTALS

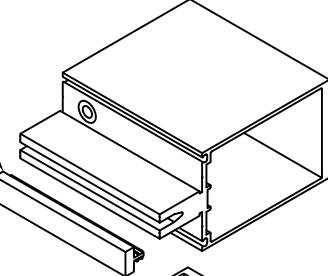


162-310 THERMAL BREAK

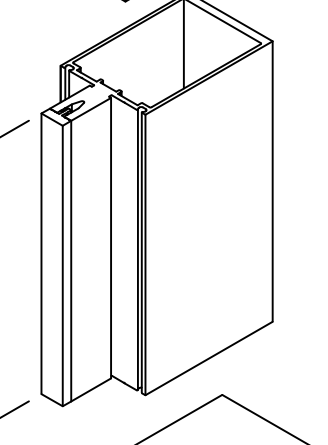
DO NOT STRETCH WHEN REMOVING FROM COIL AND CARTON

DO NOT STRETCH DURING INSTALLATION

162-310 THERMAL BREAK



OPTION TO INSTALL THERMAL BREAK AFTER VERTICALS AND HORIZONTALS ARE INSTALLED



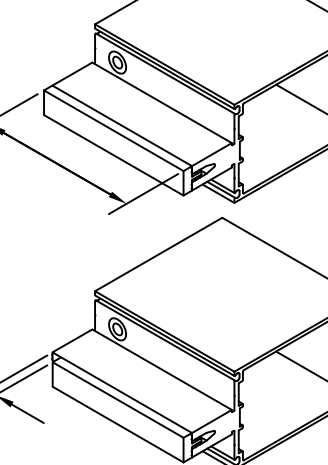
THERMAL BREAK TO BE SAME LENGTH AS VERTICAL MULLIONS

NOTE

THERMAL BREAK TO BE THE SAME LENGTH AS THE HORIZONTAL AT STRUCTURAL GLAZED VERTICALS

NOTE

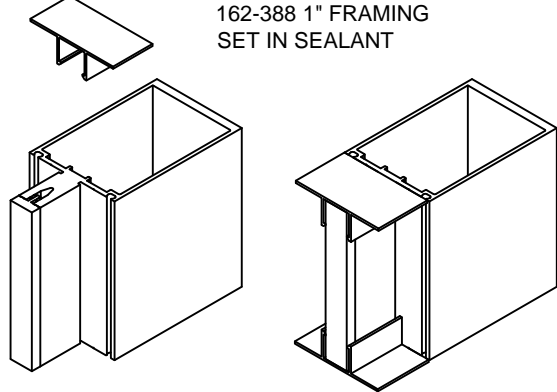
THERMAL BREAK TO BE 1/4" SHORT AT EACH END OF HORIZONTAL AT CAPTURED VERTICALS



STEP - 5 INSTALL 162-310 THERMAL BREAK

FOR CAPTURED VERTICALS

INSTALL HEAD AND SILL END CAPS 162-388 1" FRAMING SET IN SEALANT



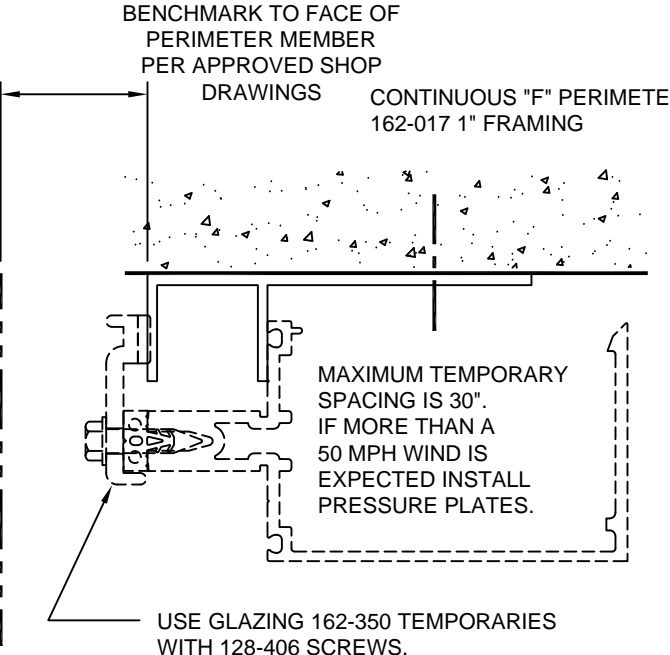
NOT REQUIRED AT EXTERIOR FRAME PERIMETERS SHOWN IN INSTRUCTIONS 162-983 AND AT OPTIONAL PERIMETER FILLERS 162-022 AND 162-023.

STEP - 6 PERIMETERS WHERE APPLICABLE

INSTALL PERIMETER MEMBERS PER APPROVED SHOP DRAWINGS. PERIMETER MEMBERS CAN OCCUR AT HEAD, SILL OR JAMB CONDITIONS.

BENCHMARK TO FACE OF PERIMETER MEMBER PER APPROVED SHOP DRAWINGS

CONTINUOUS "F" PERIMETER 162-017 1" FRAMING



MAXIMUM TEMPORARY SPACING IS 30". IF MORE THAN A 50 MPH WIND IS EXPECTED INSTALL PRESSURE PLATES.

USE GLAZING 162-350 TEMPORARIES WITH 128-406 SCREWS.

STEP - 7 INSTALL VERTICAL MULLIONS

STRUCTURAL GLAZED VERTICALS

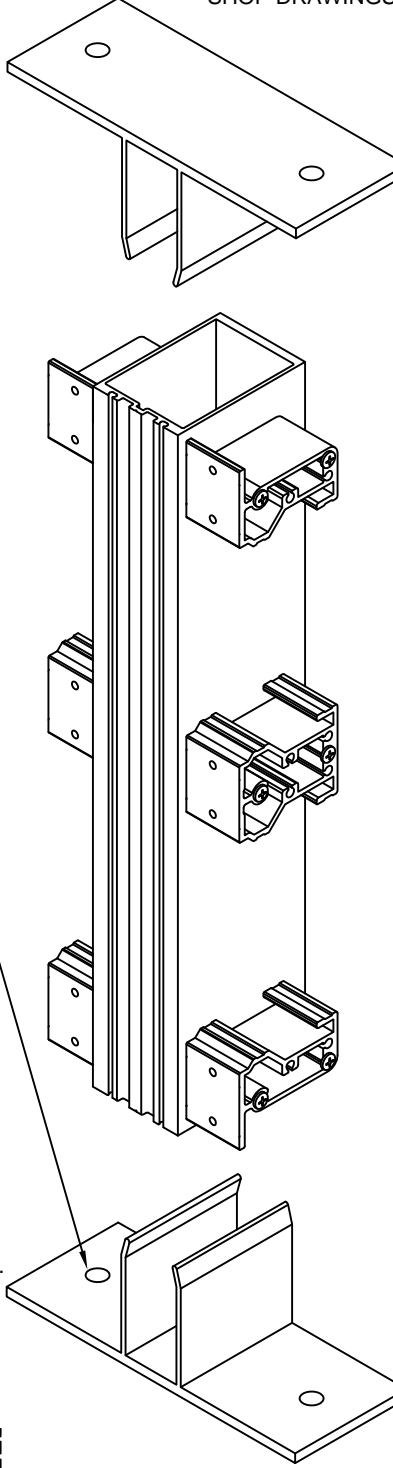
DETAILS SIMILAR FOR "CAPTURED VERTICALS"

"F" OR "T" ANCHORS WHERE APPLICABLE

"F" AND "T" ANCHOR FASTENER LOCATIONS PER APPROVED SHOP DRAWINGS

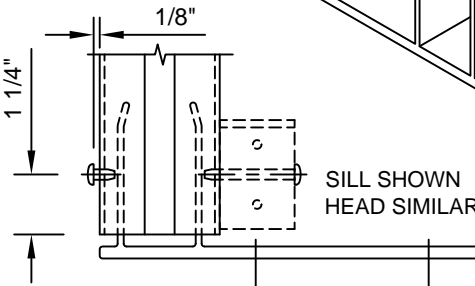
REFERENCE INSTRUCTIONS 162-983 FOR EXTERIOR FRAME PERIMETERS

THESE SHEAR BLOCKS MAY NEED TO BE REMOVED TO INSTALL A ANCHOR FASTENER THAT MIGHT BE LOCATED CLOSE TO THE MULLION



"F" AND "T" ANCHOR FASTENER LOCATIONS PER APPROVED SHOP DRAWINGS

AT MULLION JAMB SIDE, APPLY (2) 128-396 SCREWS AS SHOWN TO CENTER F-CLIPS AS REQUIRED.



1/8"

1 1/4"

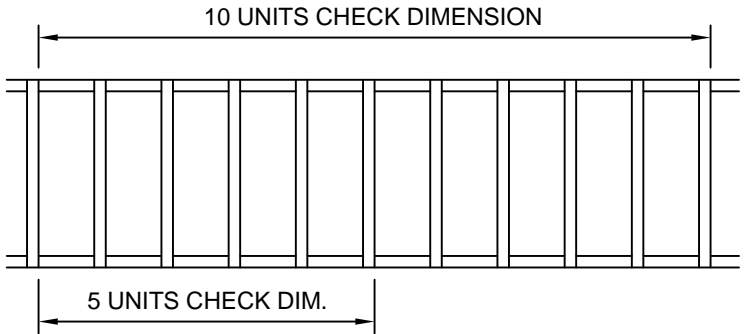
SILL SHOWN HEAD SIMILAR

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STEP - 7 INSTALL VERTICAL MULLIONS

DIMENSION BUILDUP CHECK

CHECK OVERALL FRAME DIMENSIONS ABOUT EVERY FIVE MULLIONS ON LONG RUNS. THIS IS TO AVOID DIMENSION BUILDUP.



STEP - 7 INSTALL VERTICAL MULLIONS

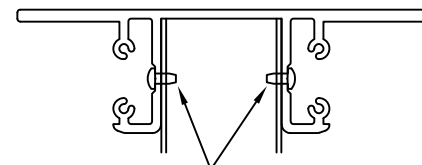
STRUCTURAL GLAZED VERTICALS

DETAILS SIMILAR FOR "CAPTURED VERTICALS"

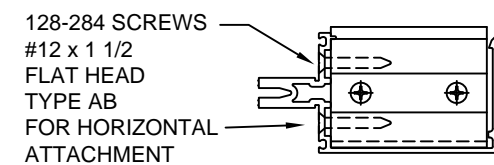
HEAD/SILL SHEAR BLOCK/ANCHOR WHERE APPLICABLE.

CAN NOT BE USED WITH EXTERIOR FRAME PERIMETERS SHOWN ON INSTRUCTIONS 162-983

162-314 6" SYSTEM AT JAMBS
162-315 7 1/2" SYSTEM AT JAMBS
162-342 6" SYSTEM AT MULLIONS
162-343 7 1/2" SYSTEM AT MULLIONS



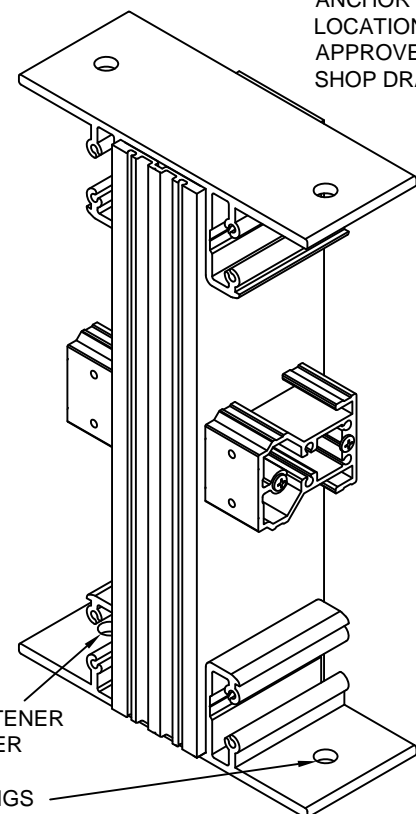
128-396 SCREWS
#12 x 7/16"
PAN HEAD TYPE B



THE ABOVE SCREWS ARE ONLY USED AT THE OPTIONAL SHEAR BLOCK/ANCHORS.

STRUCTURAL SHIMMING IS REQUIRED AT SILL TO ACCOMPLISH DESIGNED PERIMETER SEAL WIDTH.

ANCHOR FASTENER LOCATIONS PER APPROVED SHOP DRAWINGS

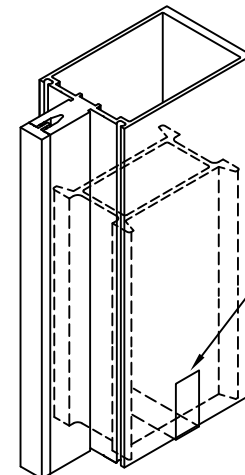


ANCHOR FASTENER LOCATIONS PER APPROVED SHOP DRAWINGS

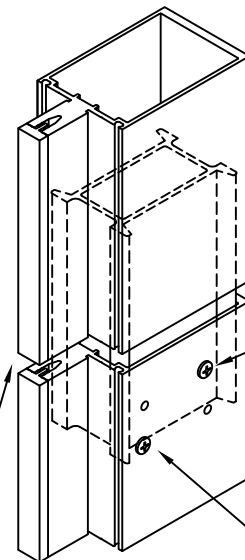
STEP - 7 INSTALL VERTICAL MULLIONS - SPLICE JOINTS

VERTICAL SPLICE JOINTS WHERE APPLICABLE.

CAPTURED VERTICALS



SLEEVE IS FACTORY TAPED INTO THE BOTTOM OF THE TOP VERTICAL.

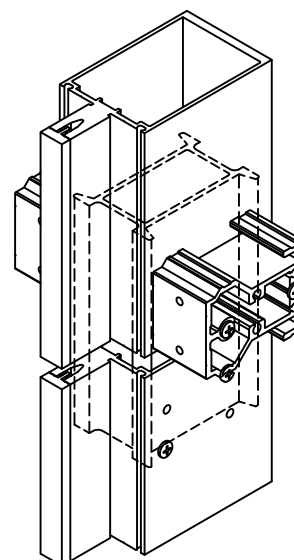


REMOVE THE TAPE AND LET THE SLEEVE SLIDE DOWN TO THE FACTORY APPLIED STOP SCREW

FIELD APPLIED FIXING SCREW 128-348
#10 x 1 1/4"
FLAT HEAD SELF DRILLING.

SHOP APPLIED STOP SCREW 128-267
#12 x 1" PAN HEAD TYPE AB

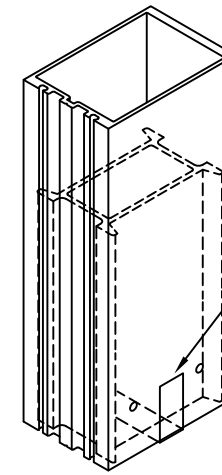
USE TEMPORARY SPACERS FOR JOINT DIMENSION



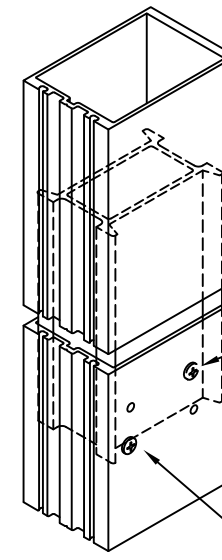
SPLICE JOINT WHEN IT OCCURS AT A HORIZONTAL.

STEP - 7 INSTALL VERTICAL MULLIONS - SPLICE JOINTS

STRUCTURAL GLAZED VERTICALS



SLEEVE IS FACTORY TAPED INTO THE BOTTOM OF THE TOP VERTICAL.

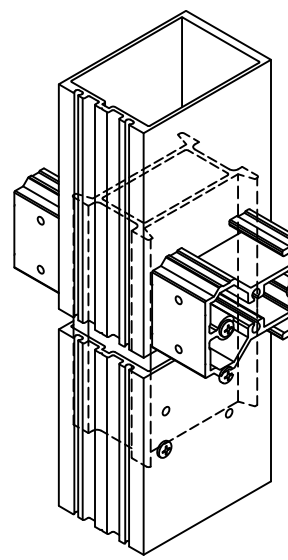


REMOVE THE TAPE AND LET THE SLEEVE SLIDE DOWN TO THE FACTORY APPLIED STOP SCREW

FIELD APPLIED FIXING SCREW 128-348
#10 x 1 1/4"
FLAT HEAD SELF DRILLING.

SHOP APPLIED STOP SCREW 128-267
#12 x 1" PAN HEAD TYPE AB

USE TEMPORARY SPACERS FOR JOINT DIMENSION



SPLICE JOINT WHEN IT OCCURS AT A HORIZONTAL.

494975 (SHEET 05 OF 22)

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KAWNEER

1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

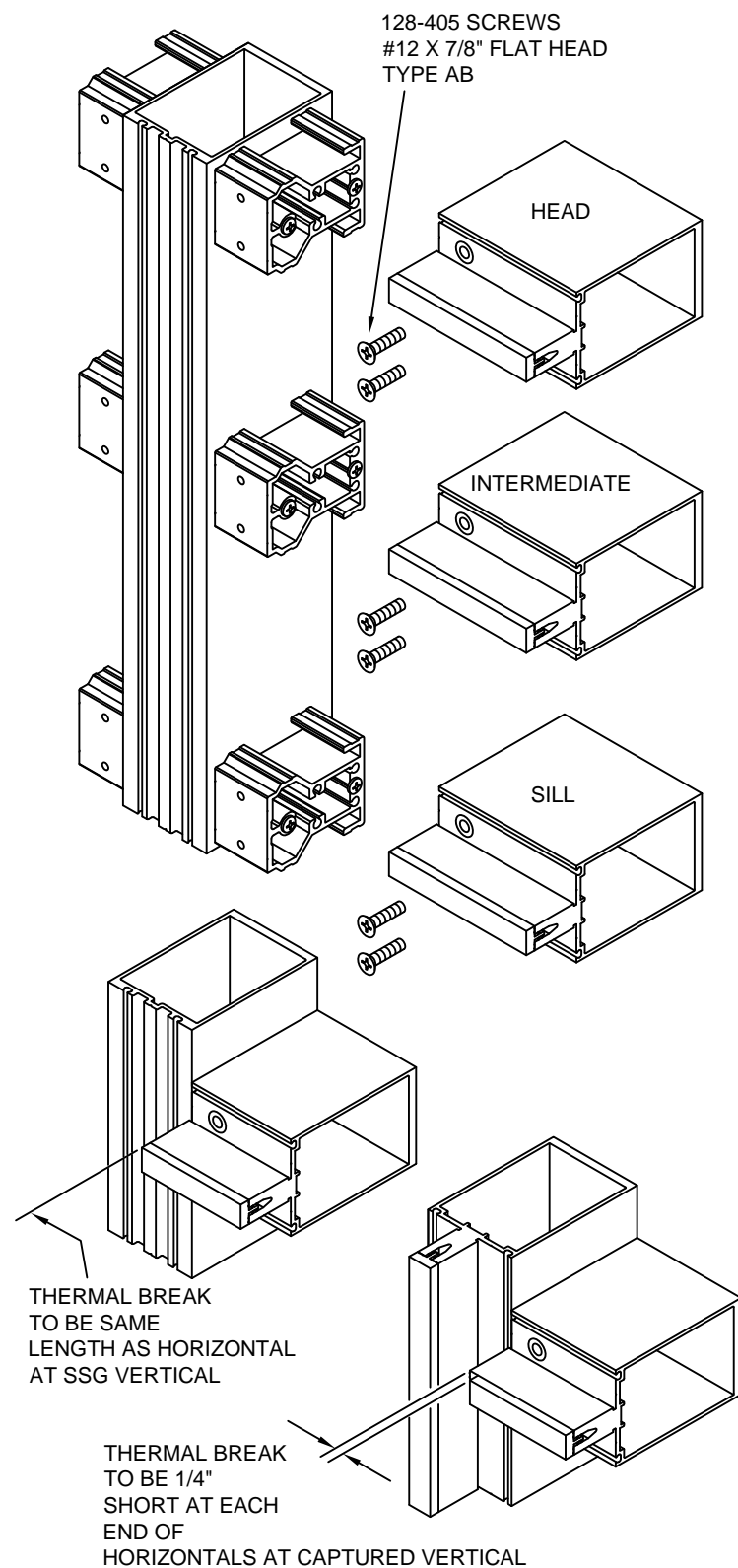
494975 (SHEET 05 OF 22)

STEP - 8 INSTALL HEAD/SILL AND INTERMEDIATE HORIZONTALS

TUBULAR
HORIZONTALS

STRUCTURAL GLAZED VERTICALS

DETAILS SAME FOR "CAPTURED VERTICALS"
EXCEPT HORIZONTAL THERMAL BREAK
CUT 1/4" SHORT EACH END.



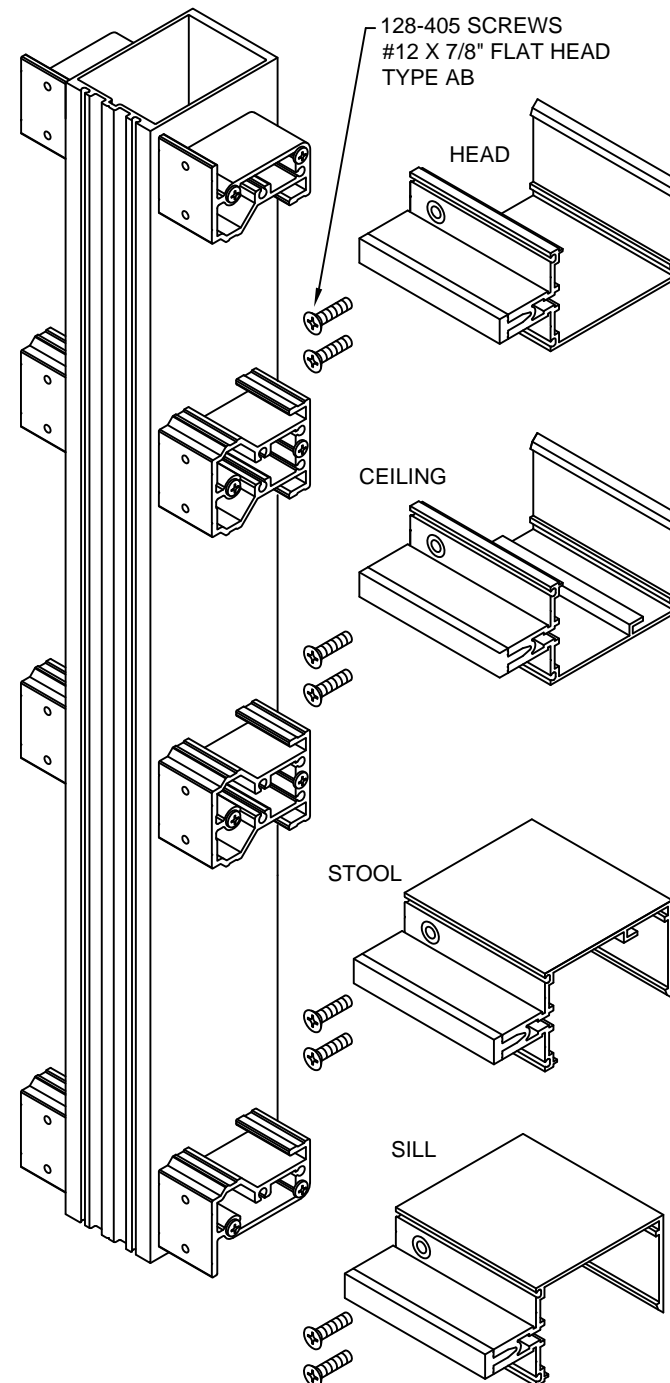
STEP - 8 INSTALL HEAD/SILL AND INTERMEDIATE HORIZONTALS

REFERENCE INSTRUCTIONS 162-983 FOR
EXTERIOR FRAME PERIMETERS

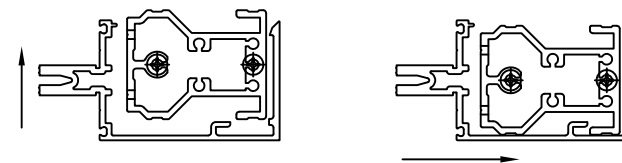
OPEN BACK HORIZONTALS AND LAST BAY
HORIZONTALS.
FILLER AVAILABLE WHEN OPEN BACK IS
EXPOSED AND AT EYE LEVEL.

STRUCTURAL GLAZED VERTICALS

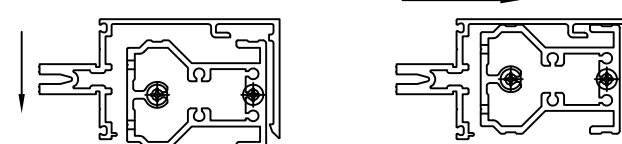
DETAILS SAME FOR "CAPTURED VERTICALS"
EXCEPT HORIZONTAL THERMAL BREAK
CUT 1/4" SHORT EACH END.



INSTALLING CEILING INTERMEDIATE OPEN BACK HORIZONTAL



INSTALLING STOOL INTERMEDIATE OPEN BACK HORIZONTAL

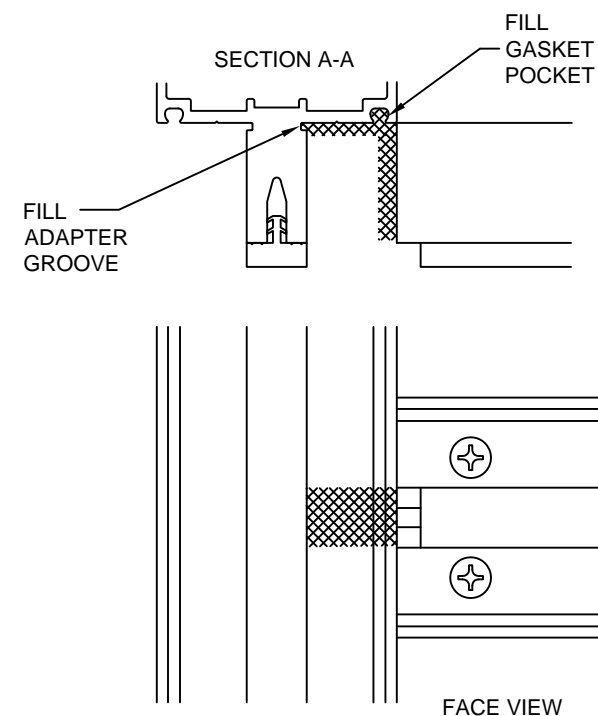


STEP - 9 INSTALL JOINT PLUGS

CAPTURED GLAZED VERTICALS

ALL SURFACES AND GROOVES MUST BE
CLEANED PER THE SEALANT
MANUFACTURER'S RECOMMENDATIONS.

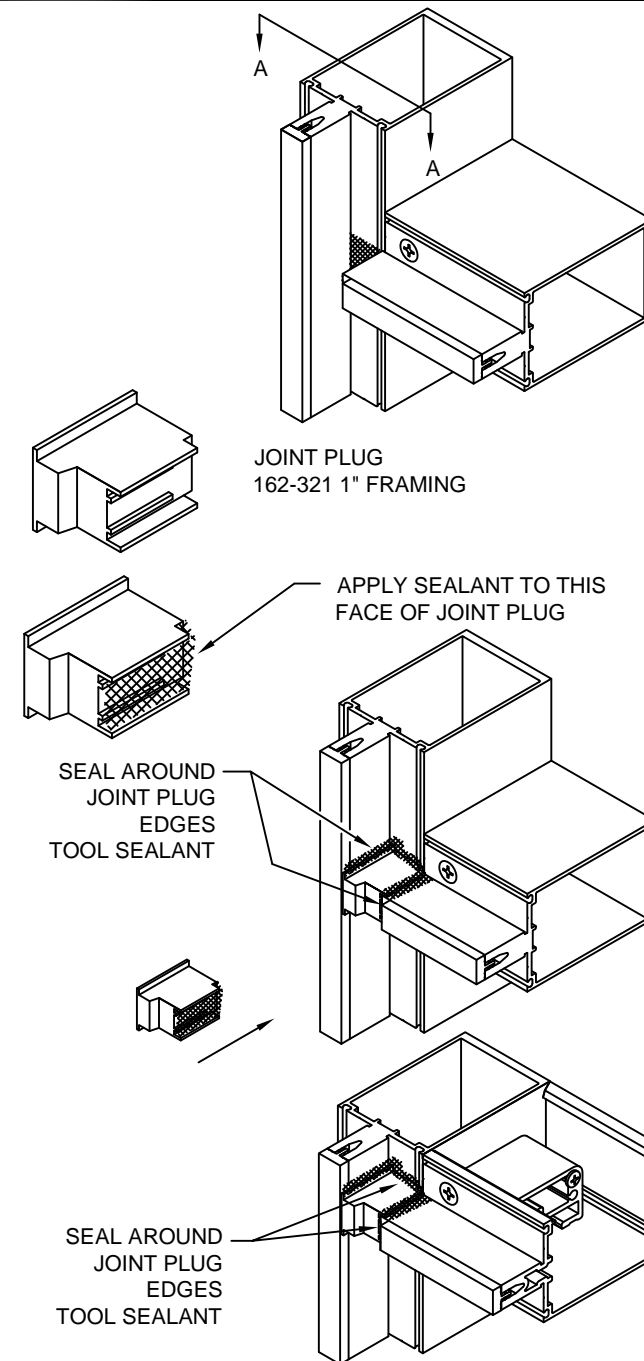
JUST BEFORE INSTALLING JOINT PLUGS
APPLY SEALANT AS SHOWN FILLING
GASKET POCKET AND ADAPTER GROOVE.



494975 (SHEET 06 OF22)

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REFERENCE INSTRUCTIONS 162-983 FOR
EXTERIOR FRAME PERIMETERS

KAWNEER

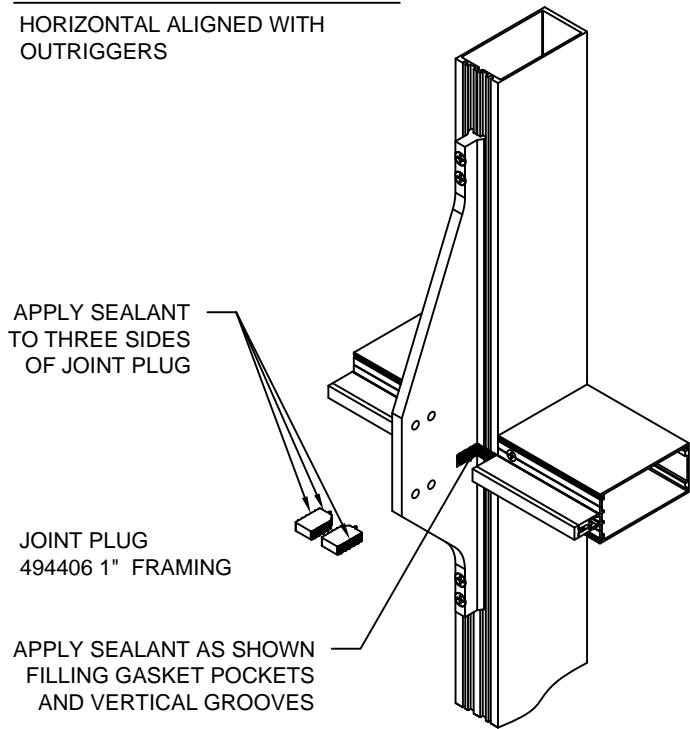
1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

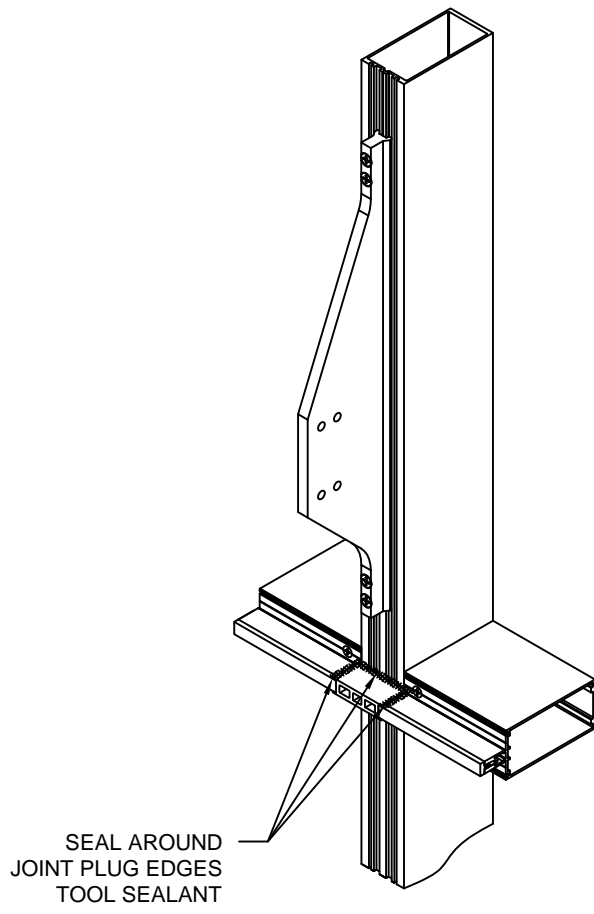
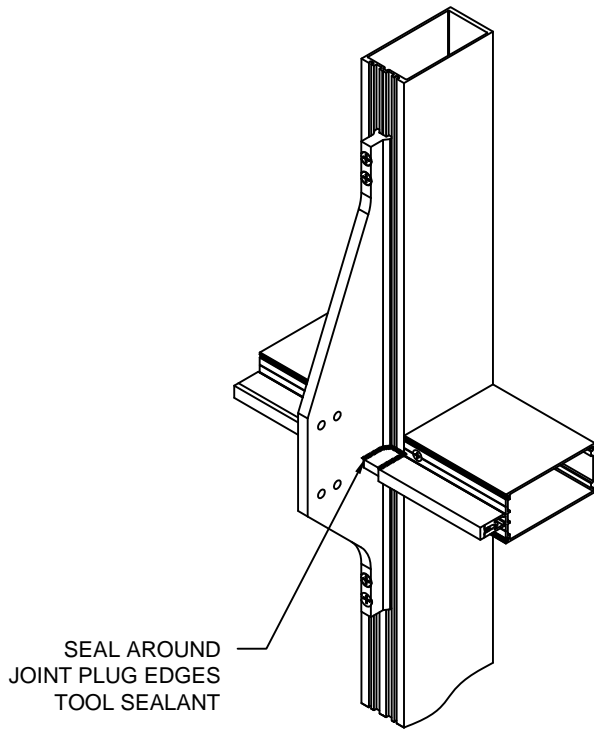
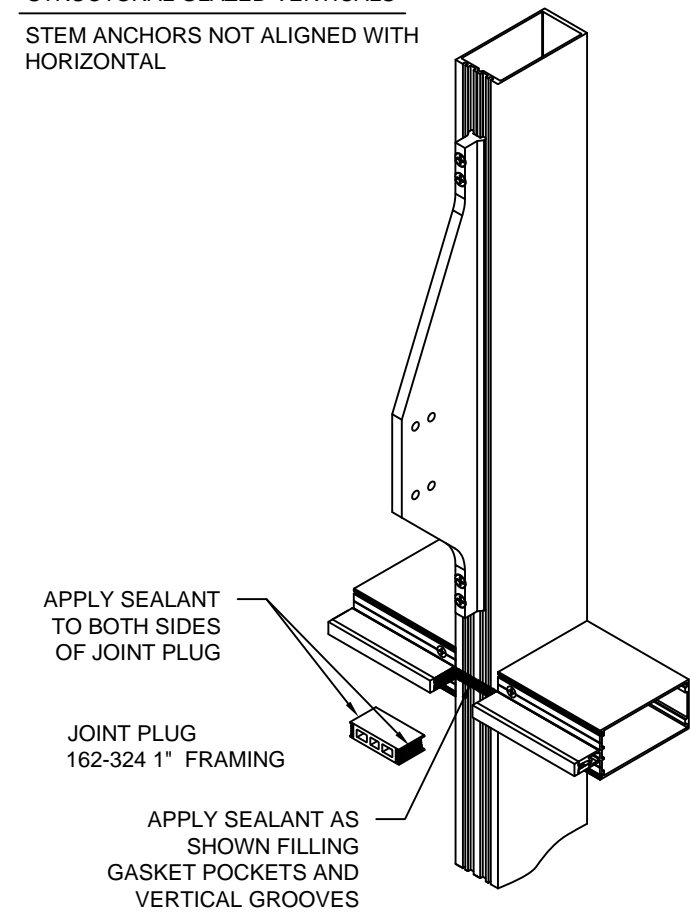
494975 (SHEET 06 OF 22)

STEP - 9 INSTALL JOINT
PLUGS AT STEM ANCHORS

STRUCTURAL GLAZED VERTICALS
HORIZONTAL ALIGNED WITH
OUTRIGGERS



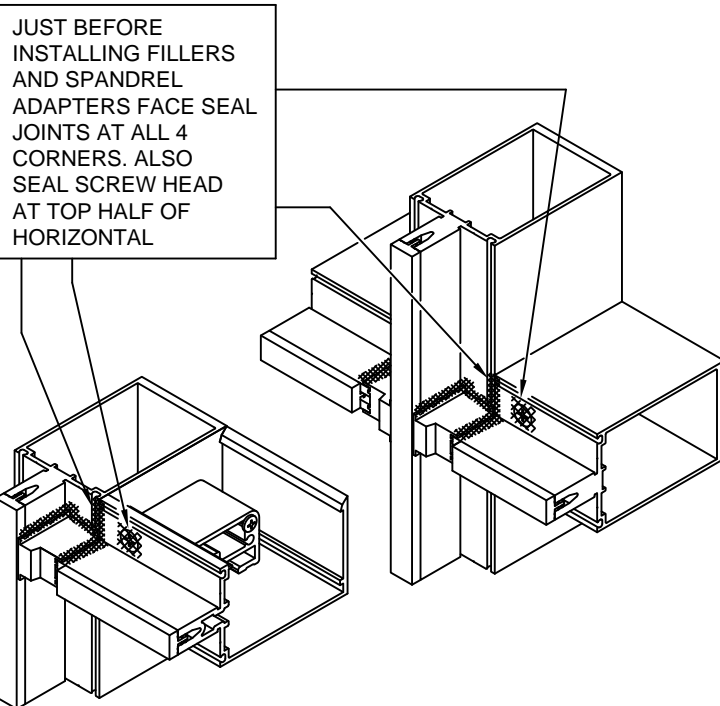
STRUCTURAL GLAZED VERTICALS
STEM ANCHORS NOT ALIGNED WITH
HORIZONTAL



STEP - 10 INSTALL PERIMETER
FILLERS AND
SPANDREL ADAPTERS
WHERE APPLICABLE

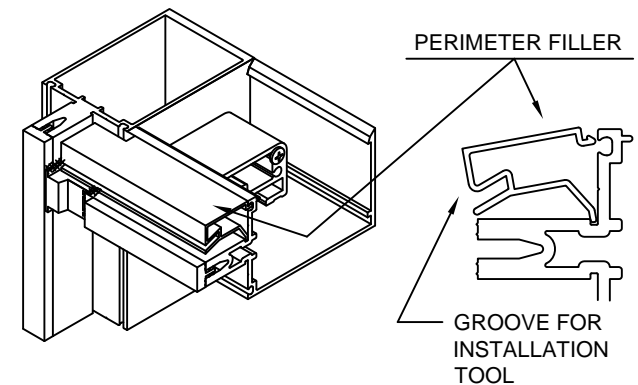
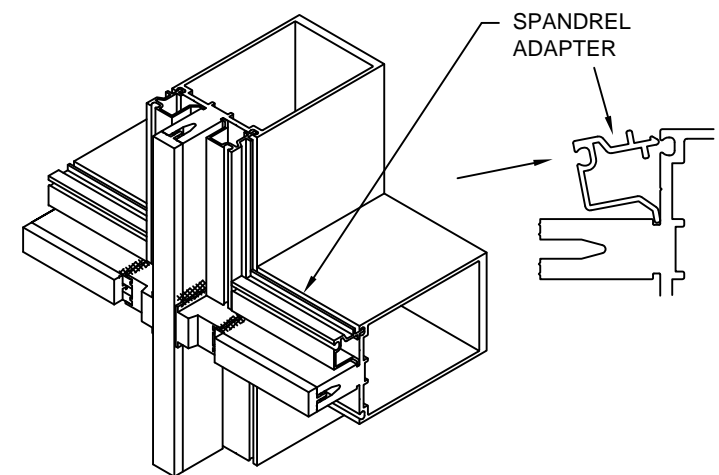
CAPTURED VERTICALS

ALL SURFACES AND GROOVES
MUST BE CLEANED PER THE
SEALANT MANUFACTURER'S
RECOMMENDATIONS.



STEP - 10 INSTALL PERIMETER
FILLERS AND
SPANDREL ADAPTERS
WHERE APPLICABLE

CAPTURED VERTICALS



USE PUTTY KNIFE,
SMALL PRY BAR
OR SCREW DRIVER



1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 07 OF 22)

494975 (SHEET 07 OF 22)

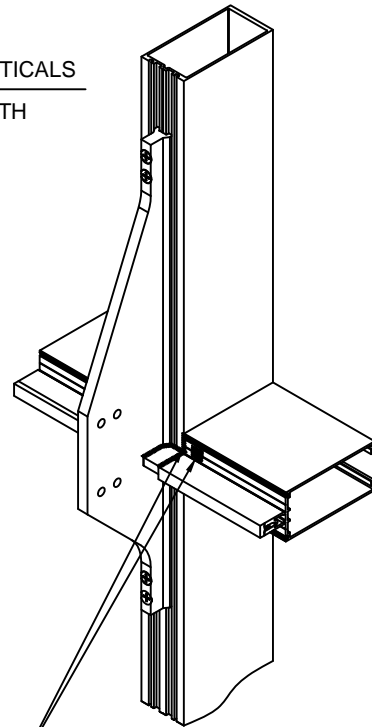
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STEP - 10 INSTALL PERIMETER FILLERS AND SPANDREL ADAPTERS AT STEM ANCHORS WHERE APPLICABLE

STRUCTURAL GLAZED VERTICALS

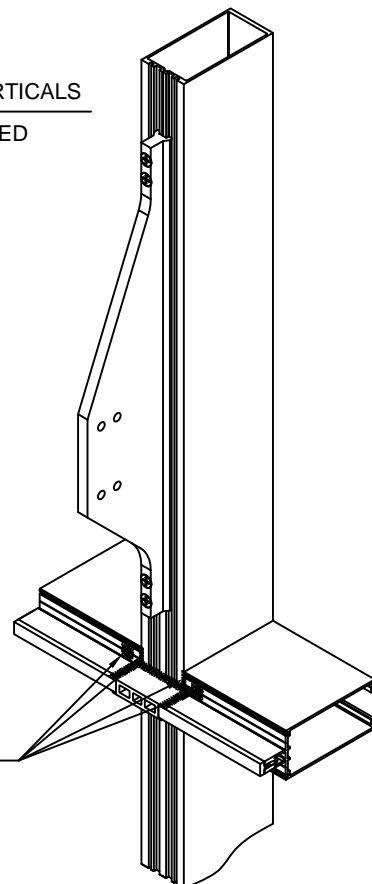
HORIZONTAL ALIGNED WITH OUTRIGGERS



JUST BEFORE INSTALLING FILLERS AND SPANDREL ADAPTERS FACE SEAL JOINTS AT ALL 4 CORNERS. ALSO SEAL SCREW HEAD AT TOP HALF OF HORIZONTAL

STRUCTURAL GLAZED VERTICALS

STEM ANCHOR NOT ALIGNED WITH HORIZONTAL

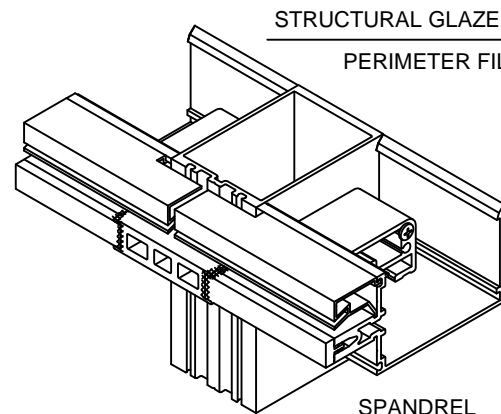


JUST BEFORE INSTALLING FILLERS AND SPANDREL ADAPTERS FACE SEAL JOINTS AT ALL 4 CORNERS. ALSO SEAL SCREW HEAD AT TOP HALF OF HORIZONTAL

STEP - 10 INSTALL PERIMETER FILLERS AND SPANDREL ADAPTERS AT STEM ANCHORS WHERE APPLICABLE

STRUCTURAL GLAZED VERTICALS

PERIMETER FILLER



PERIMETER FILLER

SPANDREL ADAPTER



GROOVE FOR INSTALLATION TOOL

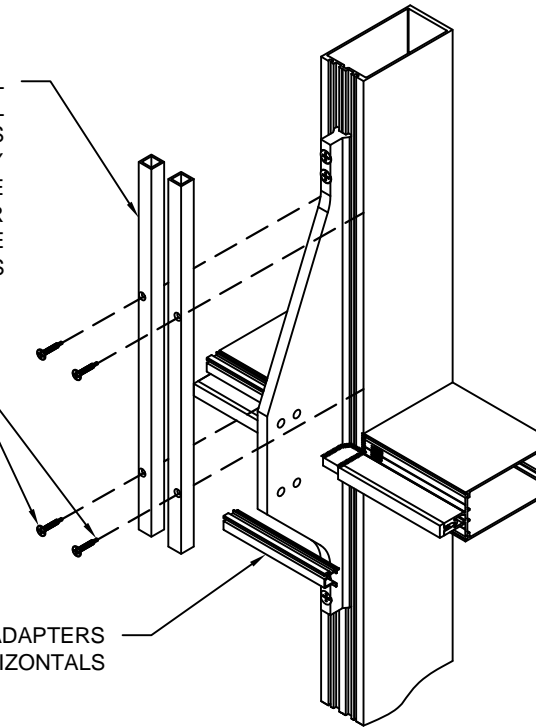
CLAMP AND INSTALL VERSOLEIL VERTICAL 1/4" GLASS ADAPTERS (494022) AS NECESSARY AT LOCATIONS WHERE THE STEM ANCHOR INTERSECTS THE HORIZONTALS

SECURE VERSOLEIL 1/4" GLASS ADAPTERS USING 128-348 #10-16 x 1-1/4" FHSD

INSTALL SPANDREL ADAPTERS 162-019 AT HORIZONTALS

STRUCTURAL GLAZED VERTICALS

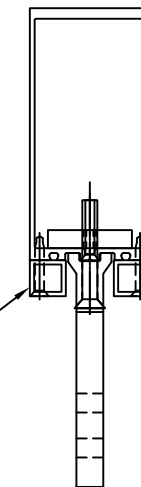
HORIZONTAL ALIGNED WITH OUTRIGGERS



STRUCTURAL GLAZED VERTICALS

HORIZONTAL ALIGNED WITH OUTRIGGER

&
HORIZONTAL ALIGNED WITH STEM



ALIGN SIDE OF ADAPTER FLUSH WITH THE SIDE OF THE MULLION

NOTE:
494022 ADAPTERS ARE HANDED. BOLT HOLE LOCATIONS SHOULD ALIGN TOWARDS THE OUTER FACE OF THE ADAPTER SO THAT THE 128-348 FASTENERS DO NOT INTERFERE WITH THE BACK-UP STEEL

STRUCTURAL GLAZED VERTICALS

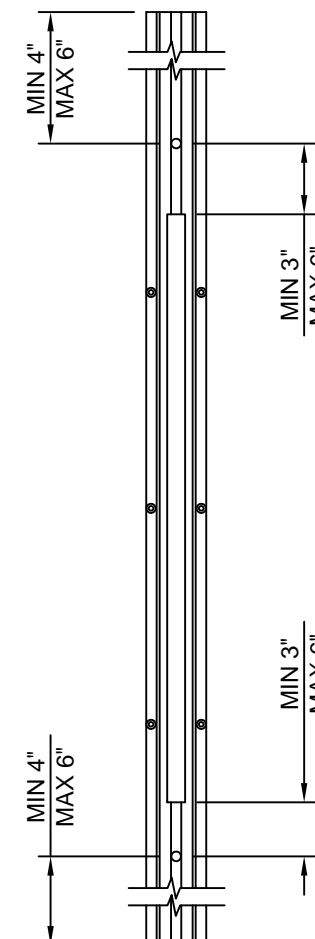
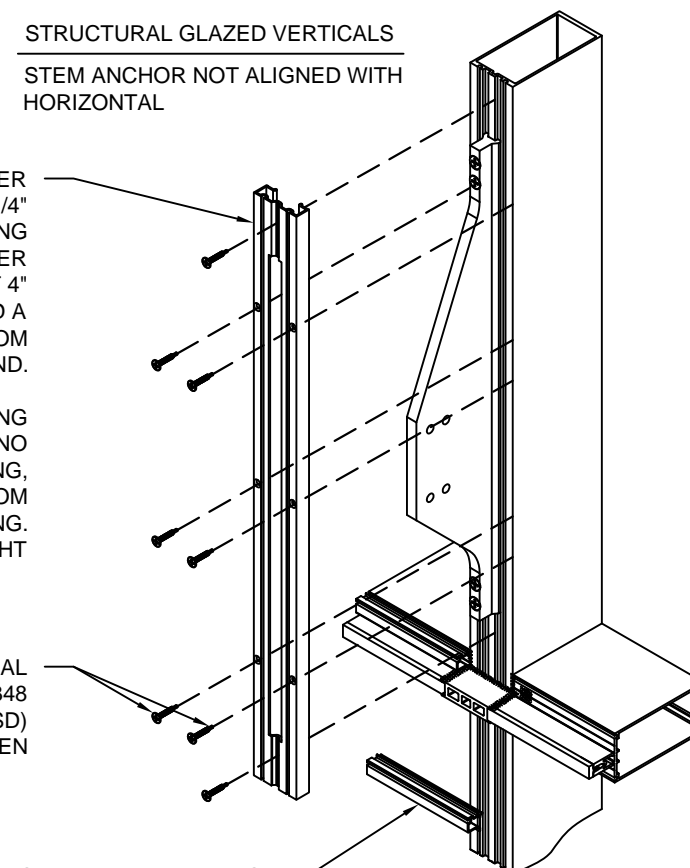
STEM ANCHOR NOT ALIGNED WITH HORIZONTAL

INSTALL VERTICAL ADAPTER WITH 128-348 (#10-16 x 1-1/4" FLAT HEAD SELF DRILLING SCREWS). LOCATE CENTER SCREWS A MINIMUM OF 4" FROM EITHER END AND A MAXIMUM OF 6" FROM EITHER END.

SCREW CLOSEST TO OPENING SHOULD BE LOCATED NO CLOSER THAN 3" TO OPENING, BUT NO MORE THAN 6" FROM THE OPENING. SEE DIAGRAM TO THE RIGHT

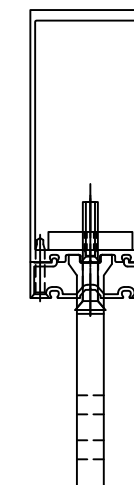
SECURE VERTICAL ADAPTER USING 128-348 (#10-16 x 1-1/4" FHSD) DO NOT OVERTIGHTEN

INSTALL SPANDREL ADAPTERS 162-019 AT HORIZONTALS



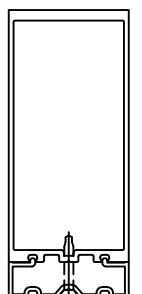
STRUCTURAL GLAZED VERTICALS

STEM ANCHOR NOT ALIGNED WITH HORIZONTAL



STRUCTURAL GLAZED VERTICALS

VERTICAL MULLION WITH NO STEM ANCHOR



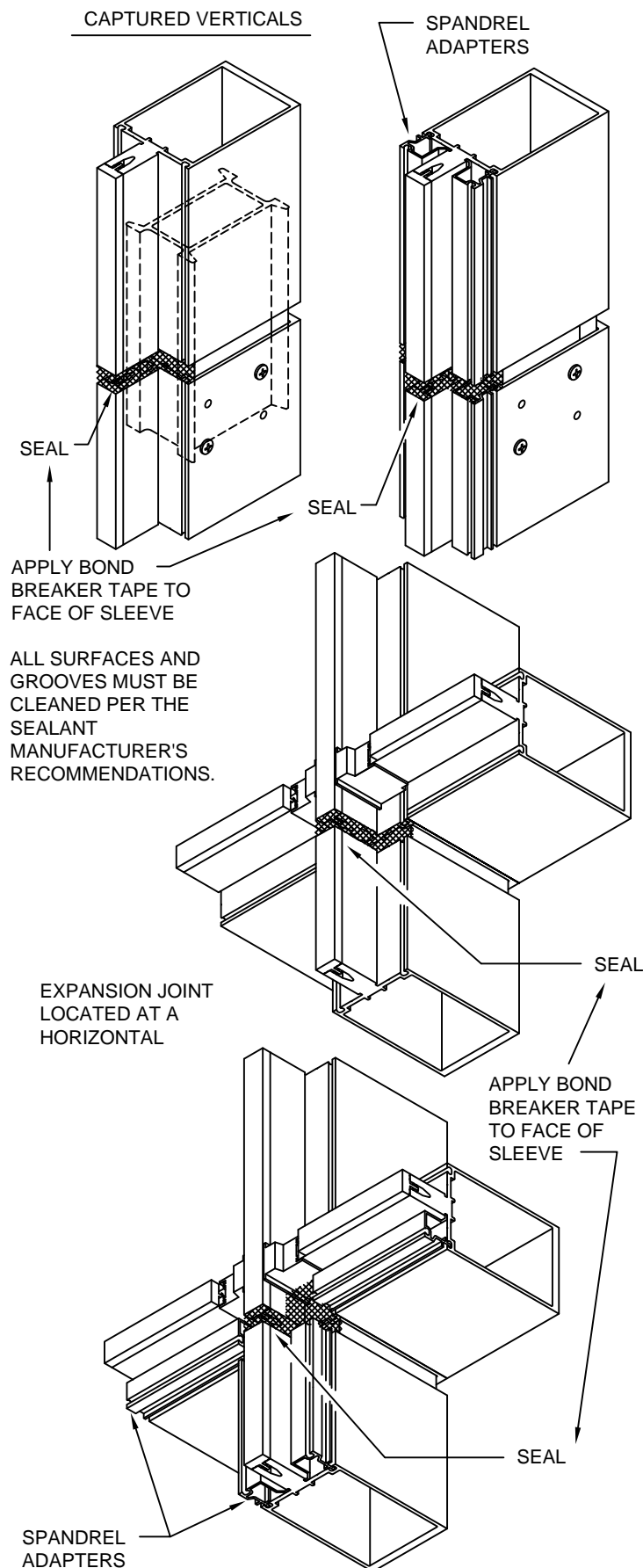
KAWNEER

1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 08 OF 22)

STEP - 11 SEAL INTERIOR OF VERTICAL SPLICE JOINTS



STEP - 12 INSTALL INTERIOR GLAZING GASKETS

GASKETS SHOULD BE INSTALLED JUST PRIOR TO GLASS TO AVOID CONTAMINATION BY JOB SITE DEBRIS. GASKET GROOVES AND POCKETS SHOULD BE CLEAN.

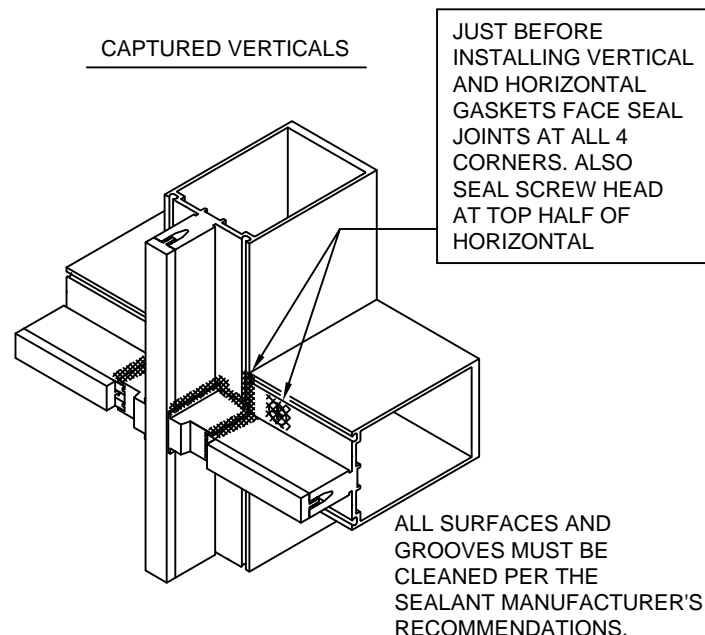
IN TEMPERATURES COLDER THAN 50° F ARRANGEMENTS SHOULD BE MADE TO WARM GASKETS BEFORE INSTALLATION. THIS WILL PREVENT EXCESSIVE GLAZING PRESSURE ON THE GLASS DUE TO COLD, STIFF RUBBER GASKETS.

GASKETS CAN BECOME DEFORMED DURING STORAGE IN CARTONS. THEY SHOULD BE REMOVED FROM CARTONS SEVERAL HOURS PRIOR TO GLAZING AND LAID FLAT OR HUNG TO ALLOW RECOVERY OF CORRECT SHAPE. TEMPERATURES SHOULD BE AT LEAST 50° F TO ALLOW THIS.

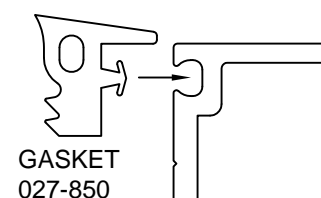
027-850 GASKET INSTALLED LENGTH TO BE DAYLITE OPENING. GASKETS TO BE CUT LONG FOR SOME "CROWD-IN". GASKETS SHOULD NEVER BE "STRETCHED TO FIT".

"CROWD-IN" TO BE 1/8" PER FOOT UP TO 5'-0", 3/16" PER FOOT UP TO 8'-0", 1/4" PER FOOT OVER 8'-0".

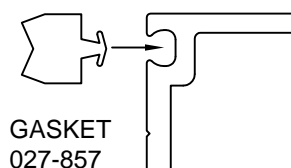
GASKET'S LENGTH AT STRUCTURAL GLAZED VERTICALS TO BE DAYLITE OPENING PLUS 1 3/8".



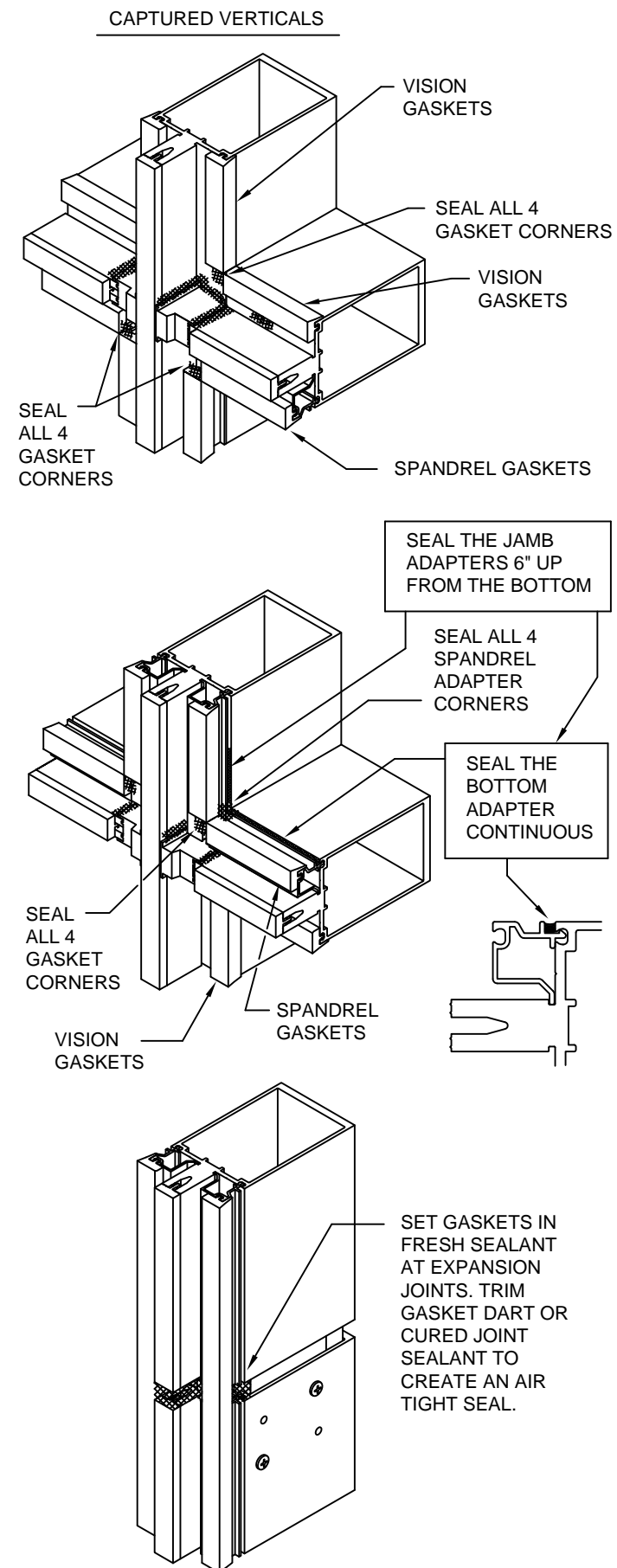
TYPICAL



PERIMETER WHERE APPLICABLE



STEP - 12 INSTALL INTERIOR GLAZING GASKETS



494975 (SHEET 09 OF 22)

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STEP - 12 INSTALL INTERIOR GLAZING GASKETS/TAPE

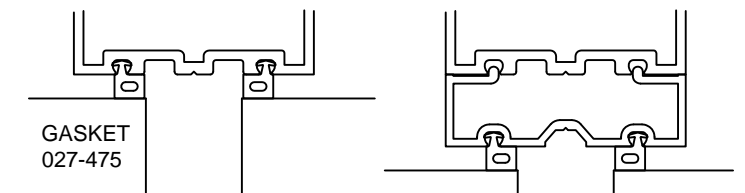
STRUCTURAL GLAZED VERTICALS

GASKET APPLICATION

ALL SURFACES AND GROOVES MUST BE CLEANED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS.

JUST BEFORE INSTALLING VERTICAL AND HORIZONTAL GASKETS FACE SEAL JOINTS AT ALL 4 CORNERS. ALSO SEAL SCREW HEAD AT TOP HALF OF HORIZONTAL

VERTICAL GASKETS TO RUN
DAYLIGHT OPENING PLUS 1 3/8"



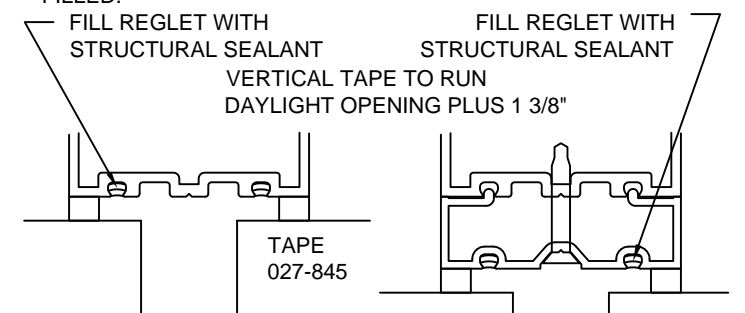
VISION AT INTERIOR
STRUCTURAL SEAL

SPANDREL AT INTERIOR
STRUCTURAL SEAL

TAPE APPLICATION AT EXTERIOR APPLICATION OF STRUCTURAL SILICONE

ALL SURFACES AND GROOVES MUST BE CLEANED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS.

JUST BEFORE INSTALLING HORIZONTAL GASKETS FACE SEAL JOINTS AT ALL 4 CORNERS. AVOID SEALANT ON SURFACES TO RECEIVE TAPE APPLICATION. SEAL SCREW HEAD AT TOP HALF OF HORIZONTAL. INSTALL SEALANT INTO THE REGLET ALONG THE LENGTH OF THE MULLION. ENSURE REGLET IS FULLY FILLED.



VISION AT EXTERIOR
STRUCTURAL SEAL

SPANDREL AT EXTERIOR
STRUCTURAL SEAL

KAWNEER

1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

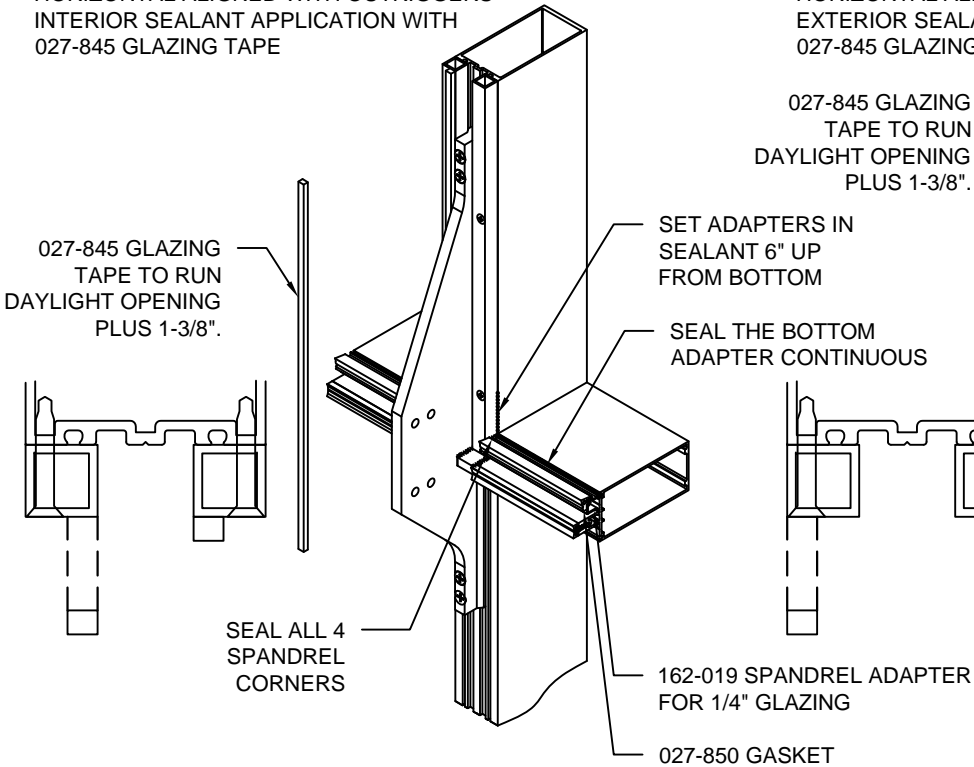
95494-32
07/09/12

494975 (SHEET 09 OF 22)

STEP - 12 INSTALL INTERIOR GLAZING GASKETS/TAPE
AND ADAPTER SEALS AT STEM ANCHORS

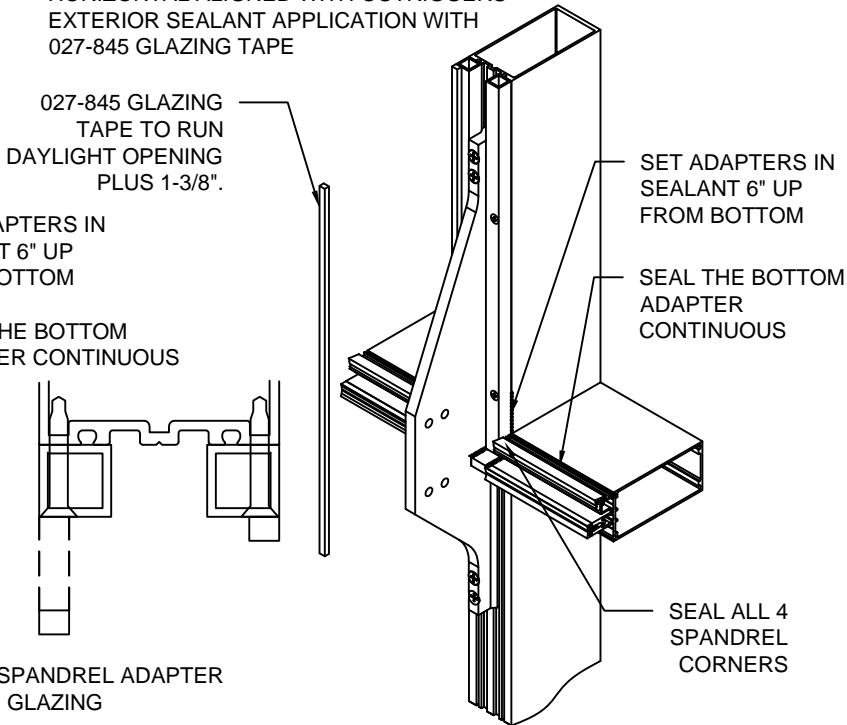
STRUCTURAL GLAZED VERTICALS

HORIZONTAL ALIGNED WITH OUTRIGGERS
INTERIOR SEALANT APPLICATION WITH
027-845 GLAZING TAPE



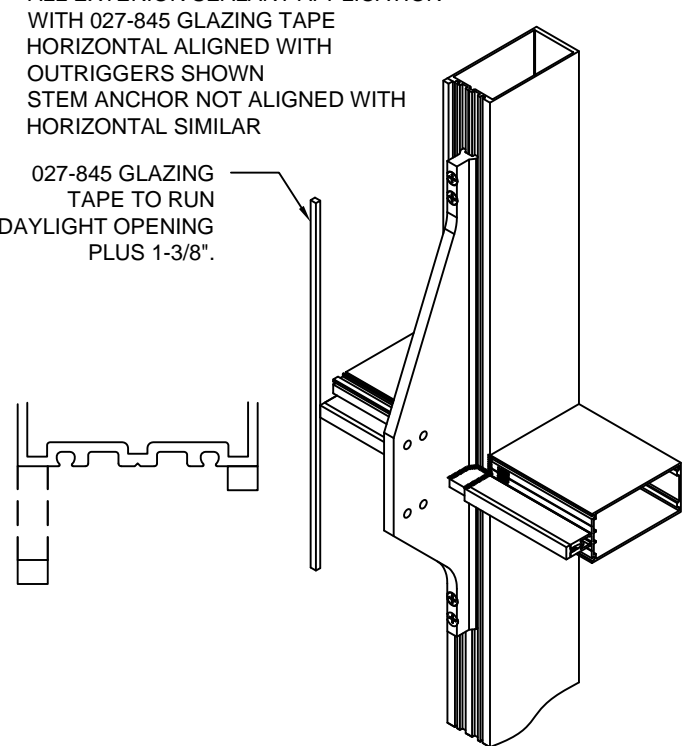
STRUCTURAL GLAZED VERTICALS

HORIZONTAL ALIGNED WITH OUTRIGGERS
EXTERIOR SEALANT APPLICATION WITH
027-845 GLAZING TAPE



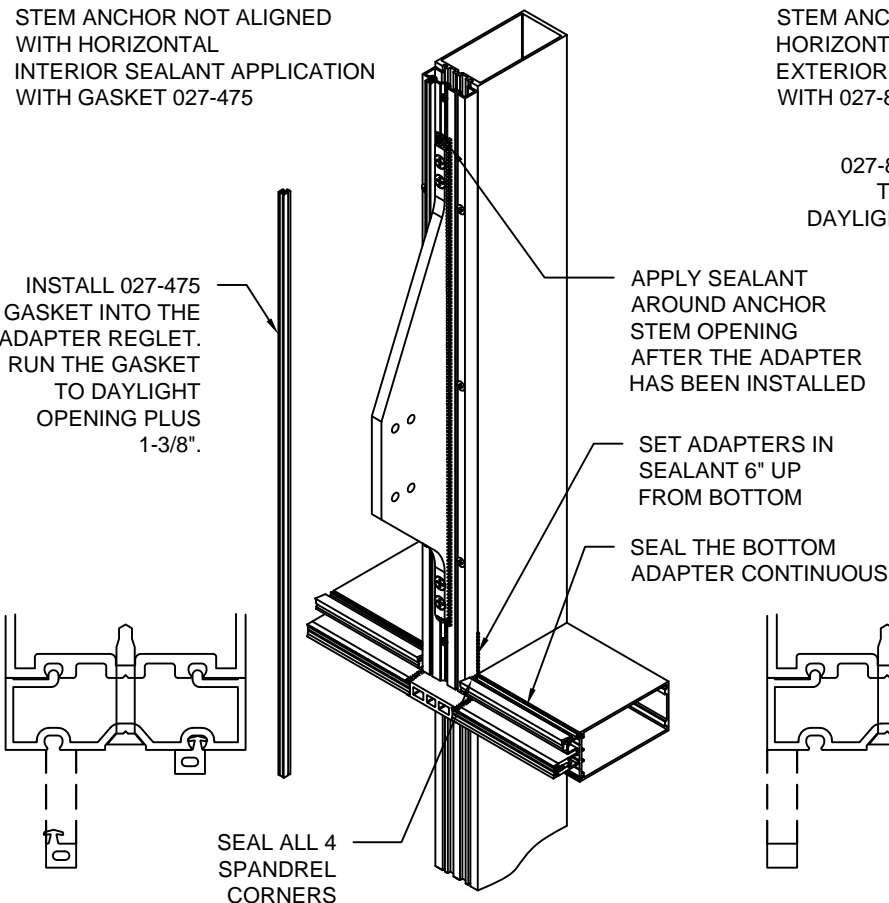
STRUCTURAL GLAZED VERTICALS

ALL EXTERIOR SEALANT APPLICATION
WITH 027-845 GLAZING TAPE
HORIZONTAL ALIGNED WITH
OUTRIGGERS SHOWN
STEM ANCHOR NOT ALIGNED WITH
HORIZONTAL SIMILAR



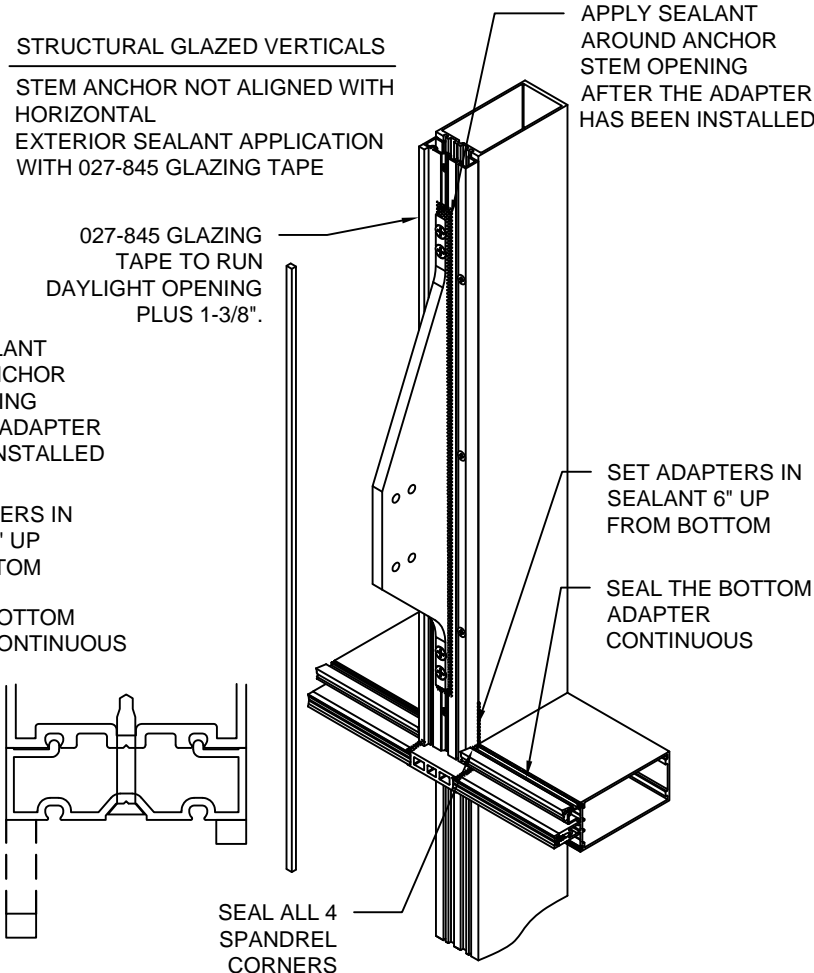
STRUCTURAL GLAZED VERTICALS

STEM ANCHOR NOT ALIGNED
WITH HORIZONTAL
INTERIOR SEALANT APPLICATION
WITH GASKET 027-475



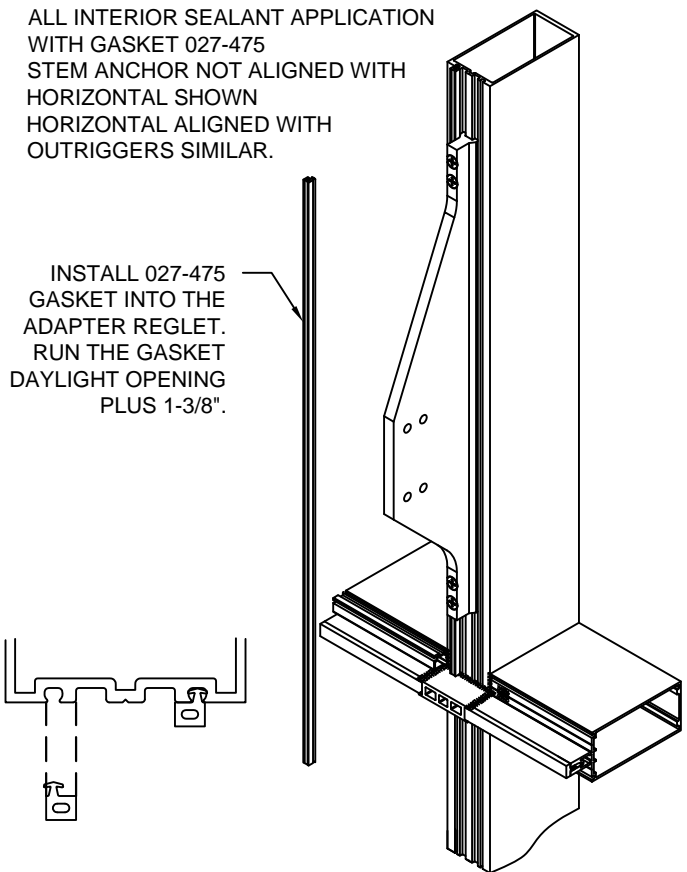
STRUCTURAL GLAZED VERTICALS

STEM ANCHOR NOT ALIGNED WITH
HORIZONTAL
EXTERIOR SEALANT APPLICATION
WITH 027-845 GLAZING TAPE



STRUCTURAL GLAZED VERTICALS

ALL INTERIOR SEALANT APPLICATION
WITH GASKET 027-475
STEM ANCHOR NOT ALIGNED WITH
HORIZONTAL SHOWN
HORIZONTAL ALIGNED WITH
OUTRIGGERS SIMILAR.



494975 (SHEET 10 OF 22)

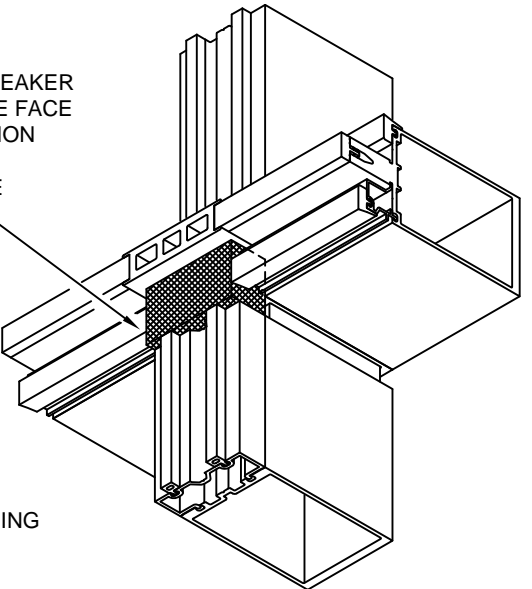
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STEP - 13 INSTALL INTERIOR
SPONGE AIR SEALS

1" FRAMING
MEMBERS

APPLY BOND BREAKER
TAPE TO SLEEVE FACE
AND SEAL MULLION
JOINT. INSTALL
426-318 SPONGE
AIR SEAL.



USE 426-319
SPONGE AIR
SEAL AT
1" INFILLS/1" FRAMING

KAWNEER

1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

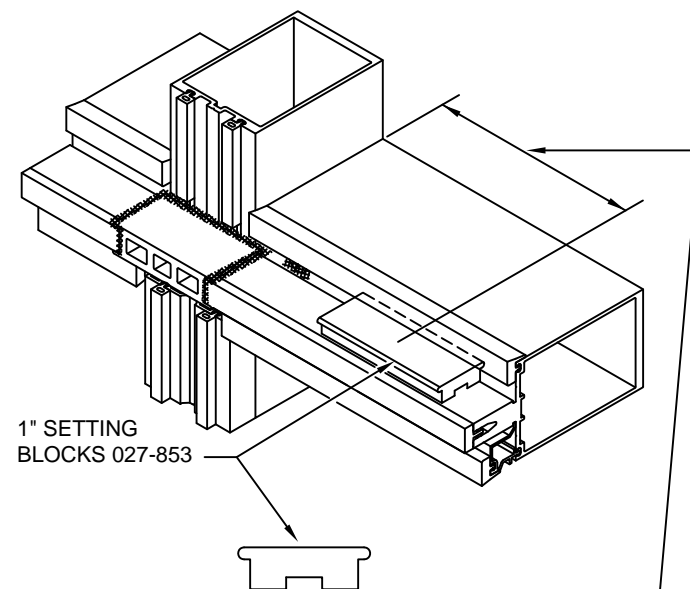
95494-32
07/09/12

494975 (SHEET 10 OF 22)

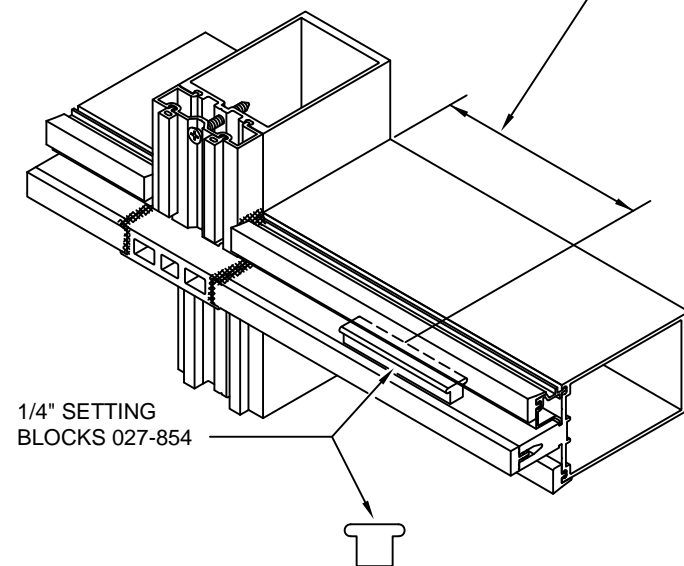
STEP - 14 INSTALL SETTING BLOCKS

STRUCTURAL GLAZED VERTICALS

DETAILS SIMILAR FOR "CAPTURED VERTICALS"



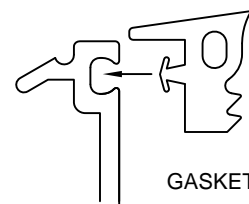
LOCATE SETTING BLOCKS
PER APPROVED SHOP DRAWINGS
OR DEAD LOAD CHARTS



STEP - 15 INSTALL EXTERIOR GASKETS INTO PRESSURE PLATES

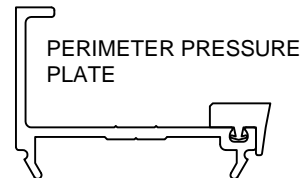
REFERENCE GASKET NOTES IN STEP 12
SAME NOTES APPLY.

REFERENCE INSTRUCTIONS 162-983 FOR
EXTERIOR FRAME PERIMETERS

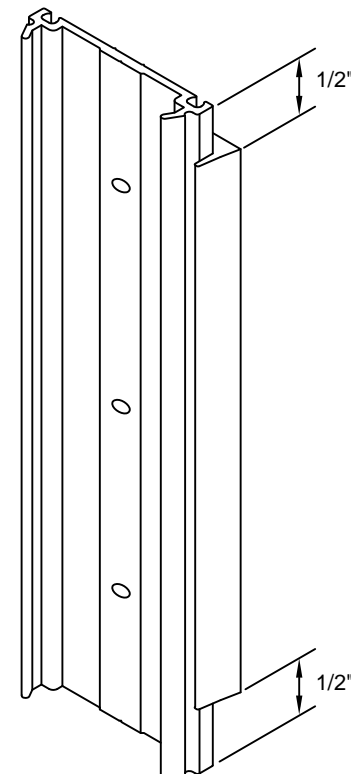


GASKET 027-850

VERTICAL GASKETS ARE
TO RUN CONTINUOUS
EXCEPT AT HEAD AND
SILL CONDITIONS
THE GASKET IS TO BE
CUT 1/2" SHORT
THIS IS FOR THE SEAL
AT SECTION D-D
STEP 17 - SHEET # 13



PERIMETER PRESSURE
PLATE



HORIZONTAL GASKET TO BE
SAME LENGTH AS PRESSURE
PLATE.

PERIMETER
WHERE APPLICABLE

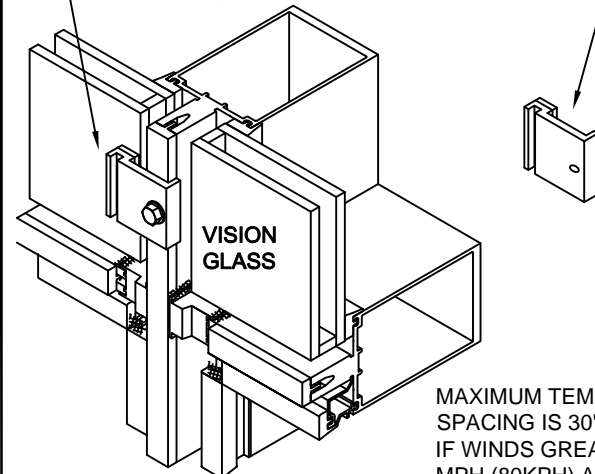
GASKET 027-857 AT
ONE SIDE. DO NOT
CUT 1/2" SHORT.



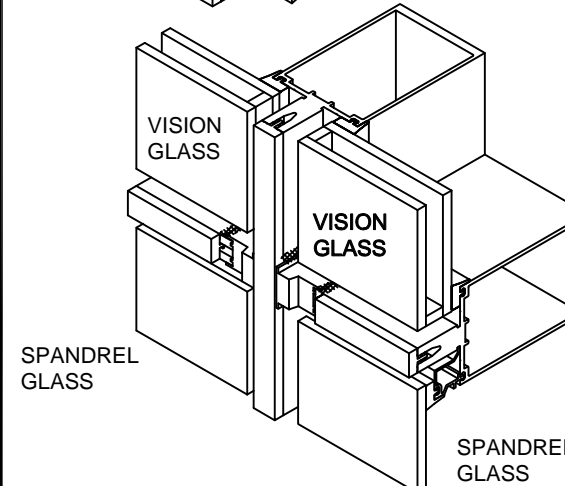
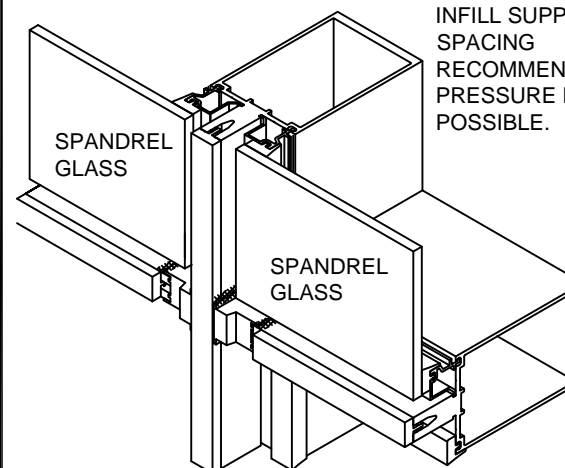
STEP - 16 INSTALL GLASS

CAPTURED VERTICALS

USE 162-350 GLAZING TEMPORARIES
AS REQUIRED. USE 128-406 SCREWS



MAXIMUM TEMPORARY
SPACING IS 30".
IF WINDS GREATER THAN 50
MPH (80KPH) ARE EXPECTED,
ADDITIONAL TEMPORARIES
MAY BE REQUIRED. CONSULT
YOUR SEALANT AND/OR
INFILL SUPPLIER FOR
SPACING
RECOMMENDATIONS. INSTALL
PRESSURE PLATES WHERE
POSSIBLE.



494975 (SHEET 11 OF 22)

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STEP - 16 INSTALL GLASS

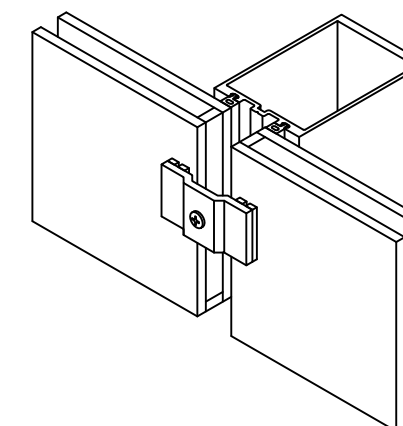
STRUCTURAL GLAZED VERTICALS

TEMPORARY RETAINERS FOR
STRUCTURAL GLAZED
VERTICALS.

THE LOCATION OF
TEMPORARY EXTERIOR INFILL
RETAINERS SHOULD BE AT A
MAXIMUM SPACING OF 30" ON
CENTER.

IF WINDS GREATER THAN 50
MPH (80KPH) ARE EXPECTED,
ADDITIONAL TEMPORARIES
MAY BE REQUIRED. CONSULT
YOUR SEALANT AND/OR INFILL
SUPPLIER FOR SPACING
RECOMMENDATIONS.

GLAZING TEMPORARY
162-353



INSTALL WITH 128-400
(#12 X 2-1/4 PH HD TYPE B)
SCREWS

AT CORNERS AND SPLAYS
RETAINERS SHOULD BE
MADE FROM A GOOD
QUALITY HARDWOOD.
THESE RETAINERS ARE
NOT SUPPLIED BY
KAWNEER.

KAWNEER

1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 11 OF 22)

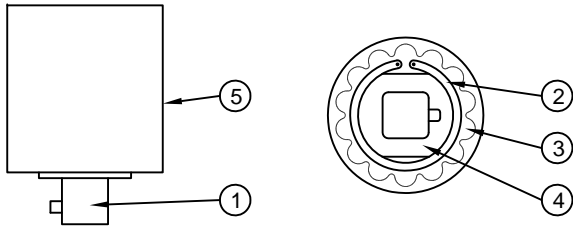
STEP - 17 INSTALL EXTERIOR PRESSURE PLATES



RECOMMEND USING TORQUE LIMIT TOOL 162-399 SEE NOTE.

HOW TO SET TORQUE LIMIT

- 1. ATTACH ANY CALIBRATED TORQUE INDICATOR TO OUTPUT STUB (1) AND DETERMINE PRESENT TORQUE SETTING WHILE HOLDING THE BODY (5), OR VICE-VERSA.
- 2. REMOVE SNAP RING (2) AND LOCKING PLATE (3).
- 3. ADJUST NUT (4) WITH OPEN-END WRENCH : CLOCKWISE TO INCREASE TORQUE, COUNTER- CLOCKWISE TO DECREASE TORQUE.
- 4. OBTAIN NEW TORQUE READING WITH THE CALIBRATED TORQUE INDICATOR. REPEAT PRECEDING STEP IF MORE ADJUSTMENT IS NECESSARY TO REACH DESIRED LIMIT.
- 5. REPLACE LOCKING PLATE INTO NOTCHES AND INSTALL SNAP RING. IF LOCKING PLATE DOES NOT "SEAT", MOVE THE ADJUSTING NUT SLIGHTLY UNTIL IT DROPS IN PLACE. THE DIRECTION IS BEST DETERMINED BY WHETHER A MINIMUM TORQUE APPLICATION OR A MAXIMUM ONE IS DESIRED.



INSTALL PRESSURE PLATES USING SCREWS 128-406 1/4-14 X 1" HEX WASHER HEAD TYPE AB.

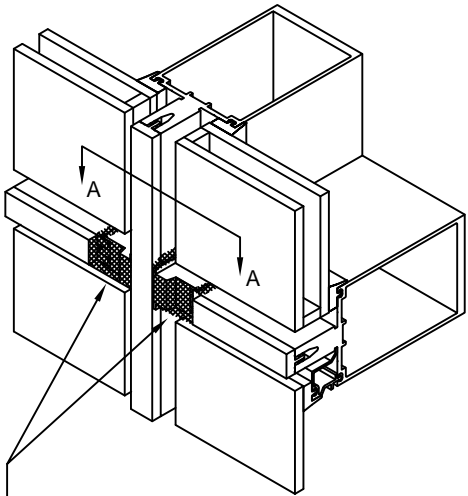
SCREWS ARE TO BE LOCATED 9" ON CENTER. ALWAYS LOCATE A SCREW AS CLOSE AS POSSIBLE TO A HORIZONTAL JOINT. THIS WILL PROVIDE MAXIMUM PRESSURE FOR THE CRITICAL JOINT SEALS.

INSTALL HORIZONTAL PRESSURE PLATES WITH WEEP HOLES TOWARDS TOP OF HORIZONTAL.

AT EACH HORIZONTAL AND VERTICAL PRESSURE PLATE INSTALL TWO SCREWS PART WAY, THEN INSTALL THE THIRD SCREW ALL THE WAY, AND THEN TIGHTEN THE FIRST TWO SCREWS. THIS ELIMINATES LATERAL WALKING OF THE PRESSURE PLATE POSITION.

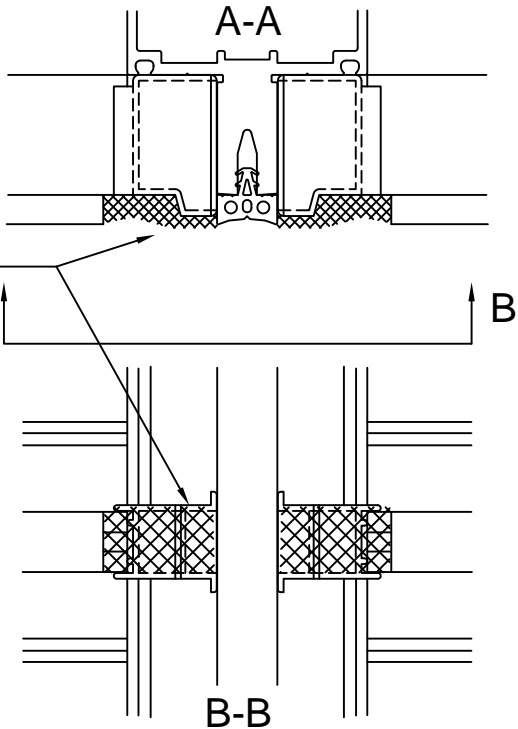
TORQUE ALL SCREWS TO 95 TO 100 INCH POUNDS. DURING COLD WEATHER, TORQUE SCREWS TO 50 INCH POUNDS UNTIL ALL 4 SIDES HAVE BEEN CLAMPED. THEN TORQUE SCREWS TO 95 TO 100 INCH POUNDS.

CAPTURED VERTICALS



JUST BEFORE INSTALLING VERTICAL PRESSURE PLATES APPLY A GENEROUS AMOUNT OF SEALANT TO THE JOINT PLUG FACE FILLING JOINTS AS SHOWN.

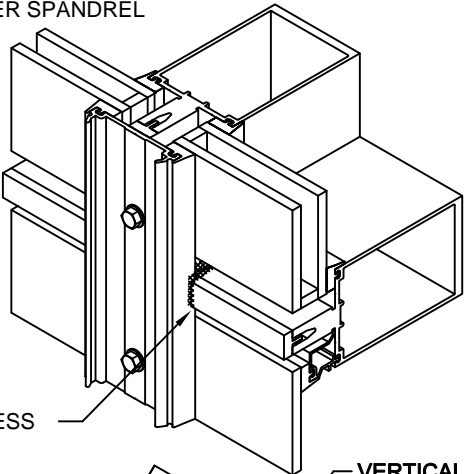
CLEAN JOINT PER SEALANT MANUFACTURER'S RECOMMENDATIONS



NOTE - THE TORQUE LIMIT TOOL WAS DESIGNED TO BE USED WITH A HAND DRIVEN DEVICE. THE TOOL CAN BE ADAPTED TO A DRILL MOTOR IF USED AT A MAXIMUM SPEED OF APPROX. 300 RPM. HIGHER SPEEDS CAN CAUSE OVERHEATING AND AFFECT THE ACCURACY. AFTER APPROX. 1 HOUR OF TOOL USAGE CHECK TORQUE SETTINGS WITH A TORQUE WRENCH.

INSTALL VERTICAL PRESSURE PLATES AT CAPTURED VERTICALS

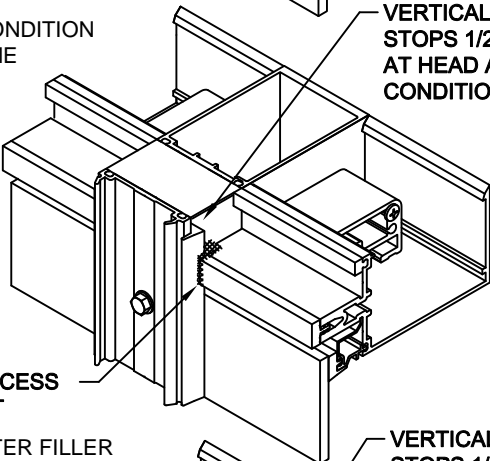
INTERMEDIATE HORIZONTAL VISION OVER SPANDREL



TOOL EXCESS SEALANT

HEAD CONDITION SILL SAME

VERTICAL GASKET STOPS 1/2" SHORT AT HEAD AND SILL CONDITIONS

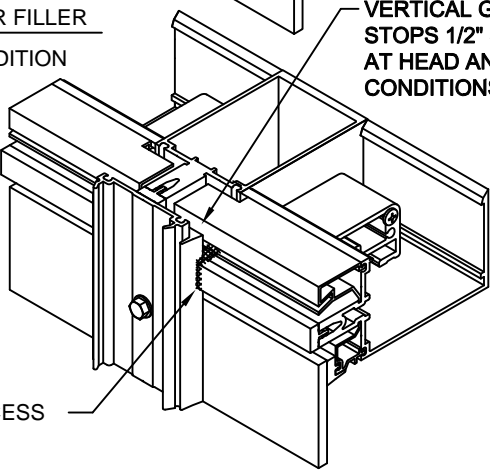


TOOL EXCESS SEALANT

PERIMETER FILLER

HEAD CONDITION SILL SAME

VERTICAL GASKET STOPS 1/2" SHORT AT HEAD AND SILL CONDITIONS



TOOL EXCESS SEALANT

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STEP - 17 INSTALL EXTERIOR PRESSURE PLATES

INSTALL VERTICAL PRESSURE PLATES AT CAPTURED VERTICALS

VERTICAL EXPANSION JOINTS

TOP OF VERTICAL
MULLION TO TOP
OF PRESSURE PLATE
IS 1-1/2"

AT TOP PRESSURE PLATE
LOCATE SCREW CLOSE TO
THE MULLION JOINT BUT
NOT BELOW THE JOINT.

CLEAN JOINT
PER SEALANT
MANUFACTURER'S
RECOMMENDATIONS

COMPLETELY SEAL JOINT.
DO NOT LET SEALANT
INTERFERE WITH COVER SNAP
OVERLAP PRESSURE PLATE FACE
CREATING A BAND-AID SEAL

INSTALL HORIZONTAL PRESSURE PLATES AT CAPTURED VERTICALS

CENTER HORIZONTAL PRESSURE PLATES
SO END GAPS ARE EQUAL.

INTERMEDIATE
HORIZONTAL
VISION OVER
SPANDREL

SEAL JOINTS AS
SHOWN. TOOL
SEALANT.
THIS SEAL IS TO
JOIN AND ADHERE
TO THE JOINT
PLUG SEALS.

CLEAN JOINT
PER SEALANT
MANUFACTURER'S
RECOMMENDATIONS

DO NOT LET THE SEAL
INTERFERE WITH THE COVER SNAP.

GASKET
027-850

B-B

GASKET
027-850

FACE VIEW

PERIMETER FILLER
HEAD HORIZONTAL
SILL SAME

SEAL JOINTS AS
SHOWN. TOOL
SEALANT.
THIS SEAL IS TO
JOIN AND ADHERE
TO THE JOINT
PLUG SEALS.

REFERENCE INSTRUCTIONS 162-983
FOR EXTERIOR FRAME PERIMETERS

SEAL BETWEEN PRESSURE
PLATE AND HEAD/SILL END
CAP AS SHOWN.

HEAD HORIZONTAL
SILL SAME

SEAL JOINTS AS
SHOWN. TOOL
SEALANT.
THIS SEAL IS TO
JOIN AND ADHERE
TO THE JOINT
PLUG SEALS.

CLEAN JOINT
PER SEALANT
MANUFACTURER'S
RECOMMENDATIONS

DO NOT LET THE SEAL
INTERFERE WITH THE COVER SNAP.

VERTICAL GASKET
STOPS 1/2"
SHORT OF END.

GASKET
027-857

E-E

GASKET
027-850

GASKET
027-850

FACE VIEW

DO NOT LET THE SEAL
INTERFERE WITH THE COVER SNAP.

C-C

GASKET
027-850

494975 (SHEET 13 OF 22)

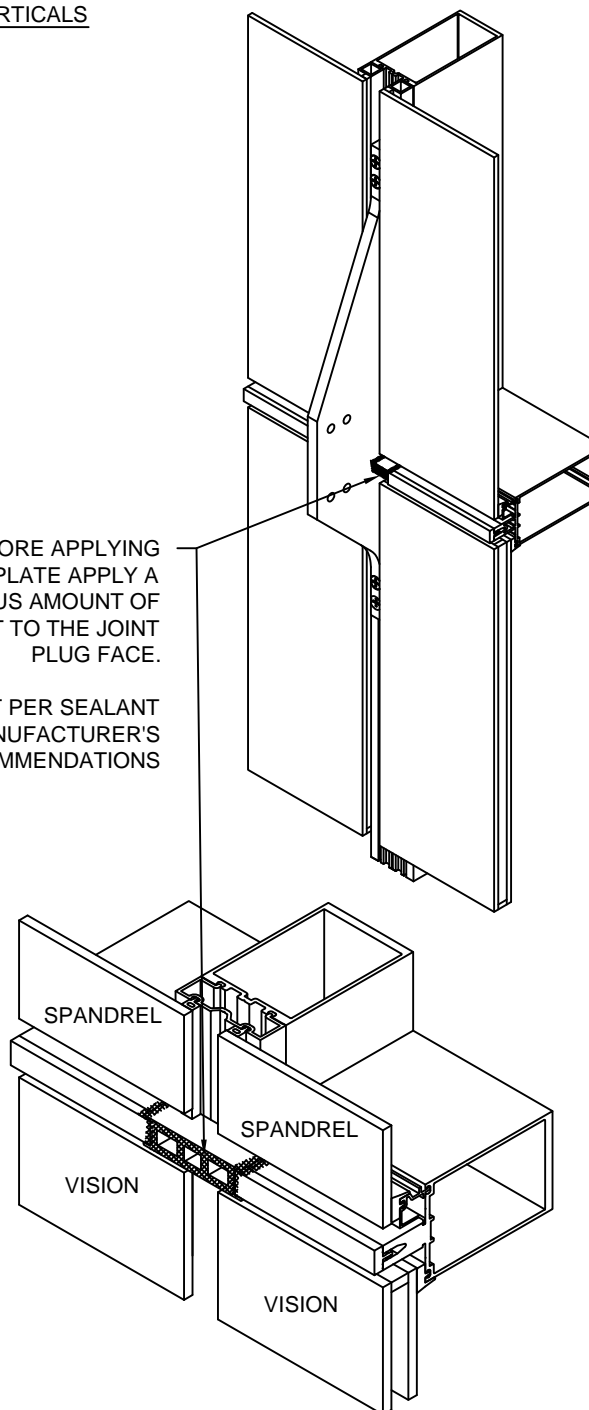
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INSTALL HORIZONTAL PRESSURE PLATES AT SSG VERTICALS

JUST BEFORE APPLYING
PRESSURE PLATE APPLY A
GENEROUS AMOUNT OF
SEALANT TO THE JOINT
PLUG FACE.

CLEAN JOINT PER SEALANT
MANUFACTURER'S
RECOMMENDATIONS



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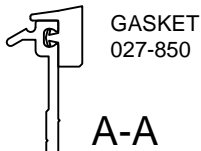
1600 SYSTEM 2
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OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

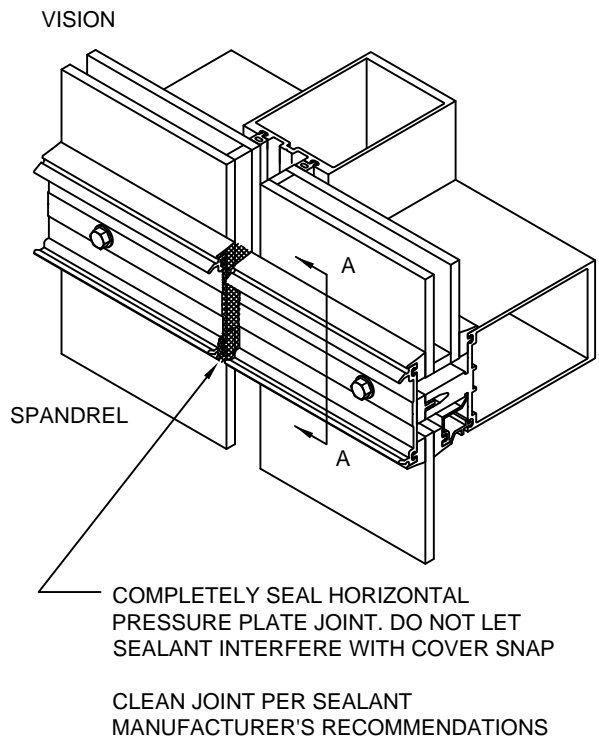
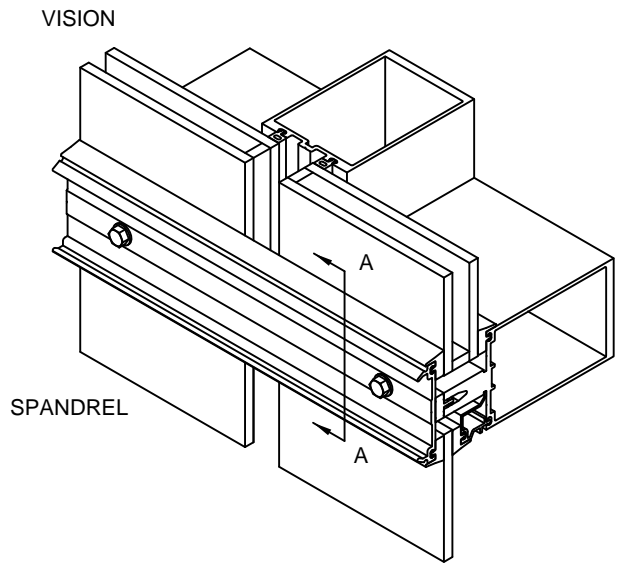
494975 (SHEET 13 OF 22)

STEP - 17 INSTALL EXTERIOR
PRESSURE PLATES

INSTALL HORIZONTAL PRESSURE PLATES
AT SSG VERTICALS

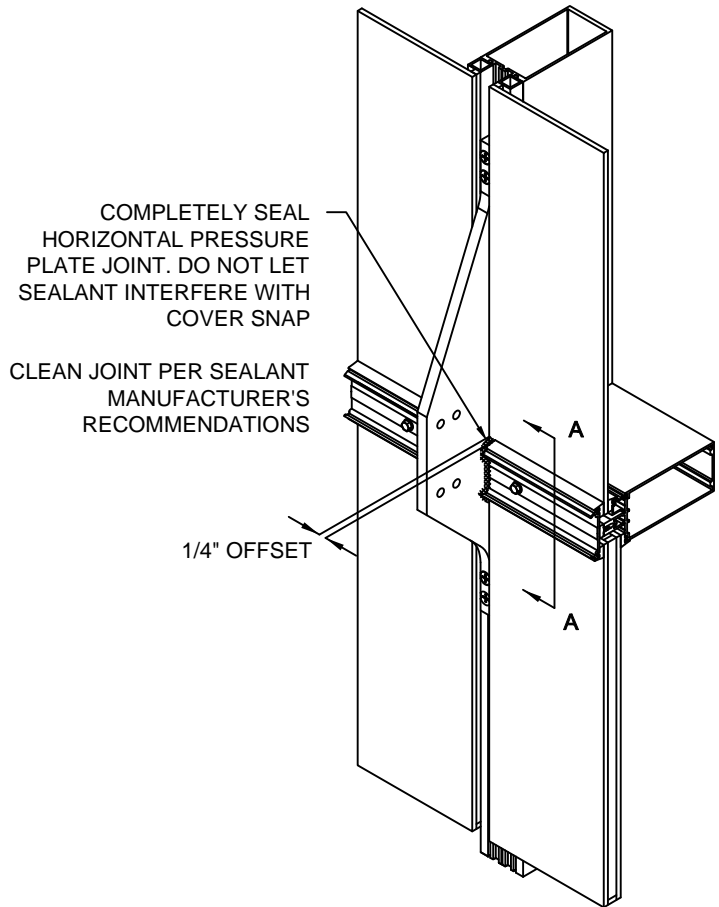


STRUCTURAL GLAZED VERTICALS
STEM NOT ALIGNED WITH HORIZONTAL



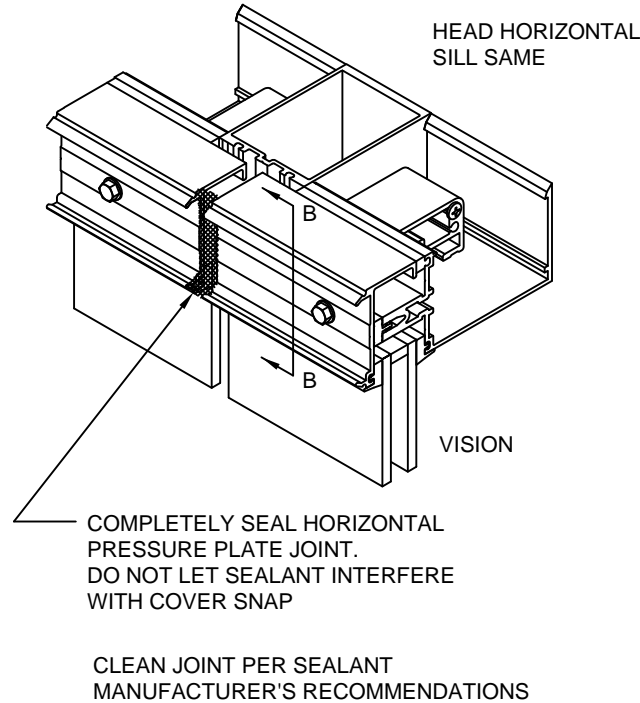
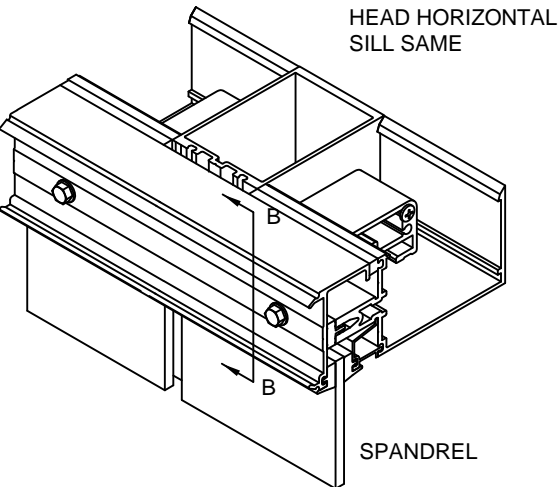
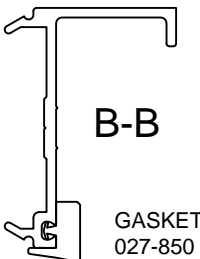
STEP - 17 INSTALL EXTERIOR
PRESSURE PLATES

STRUCTURAL GLAZED VERTICALS
HORIZONTAL ALIGNED WITH
OUTRIGGERS



INSTALL HORIZONTAL PRESSURE PLATES
AT SSG VERTICALS

REFERENCE
INSTRUCTIONS
162-983 FOR
EXTERIOR FRAME
PERIMETERS

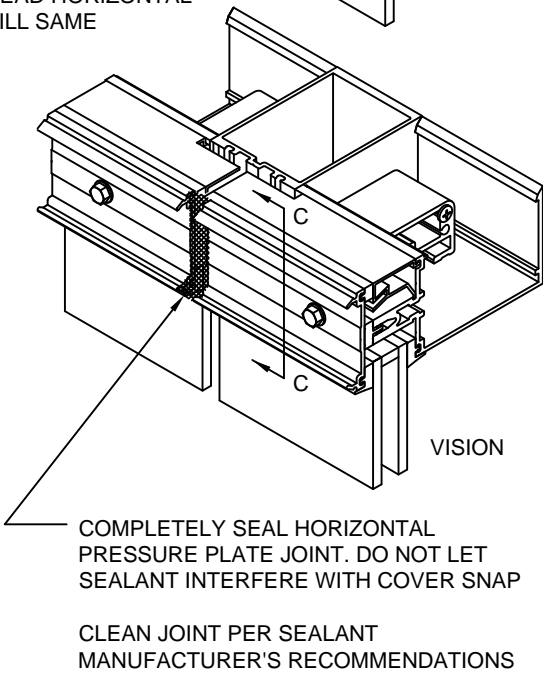
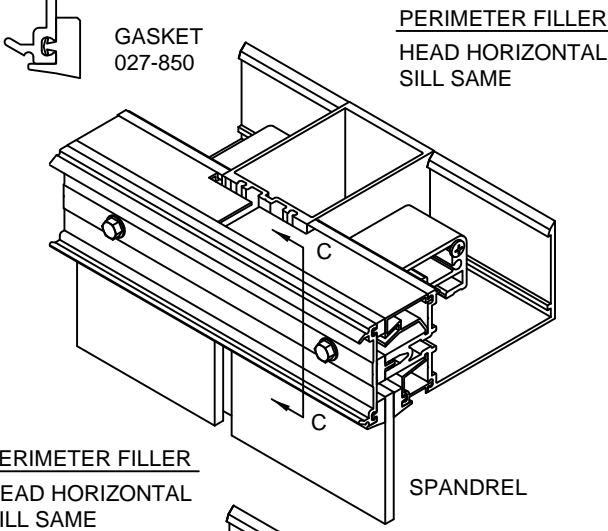
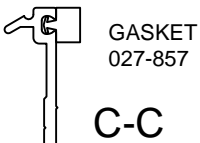


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INSTALL HORIZONTAL PRESSURE PLATES
AT SSG VERTICALS



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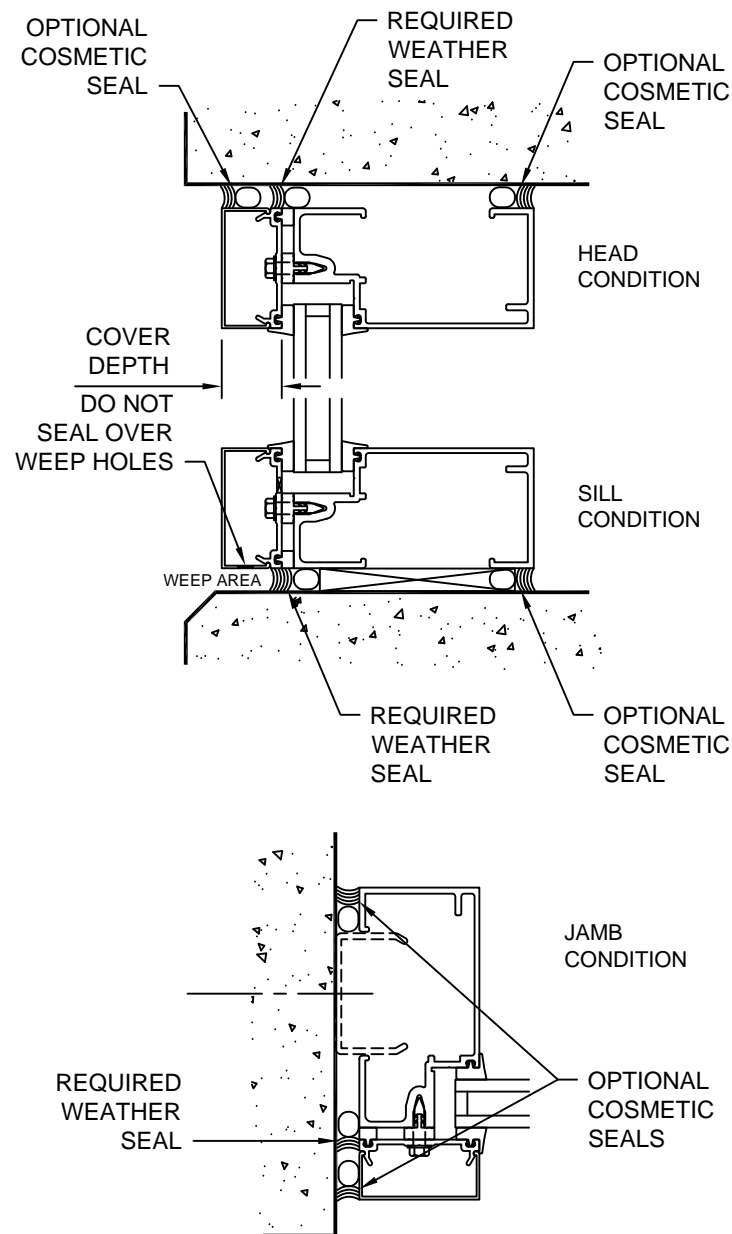
1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 14 OF 22)

STEP - 18 INSTALL PERIMETER SEALS

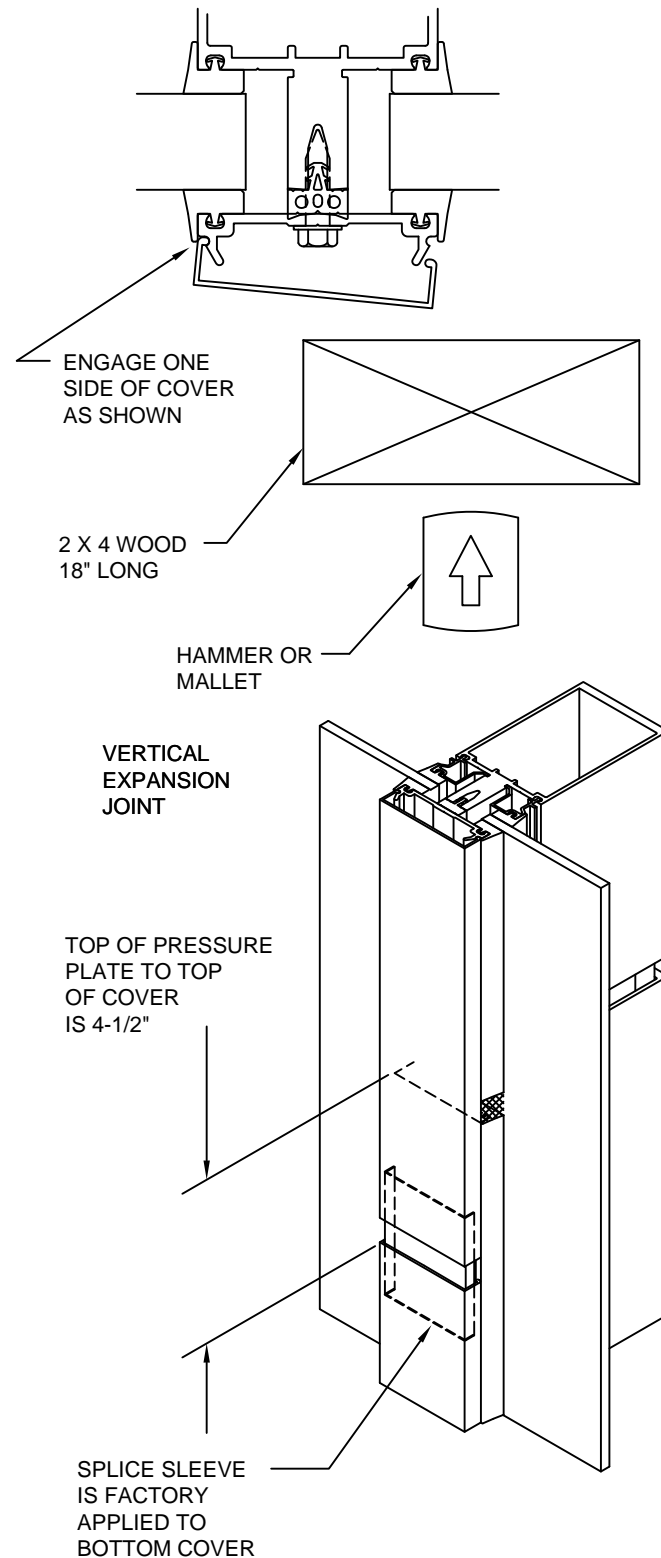
PERIMETER WEATHER SEALS ARE INSTALLED AT THE PRESSURE PLATE LOCATION AS DETAILED BELOW. (THIS SEAL SHOULD BE INSTALLED BEFORE COVERS ARE APPLIED WHEN COVERS DEEPER THAN 3/4" ARE USED) EXTERIOR COSMETIC SEALS AT THE COVER MAY BE APPLIED AT THE HEAD AND JAMBS ONLY. SILL COVERS MUST REMAIN OPEN TO ALLOW WATER DRAINAGE TO THE EXTERIOR.



STEP - 19 INSTALL EXTERIOR COVERS

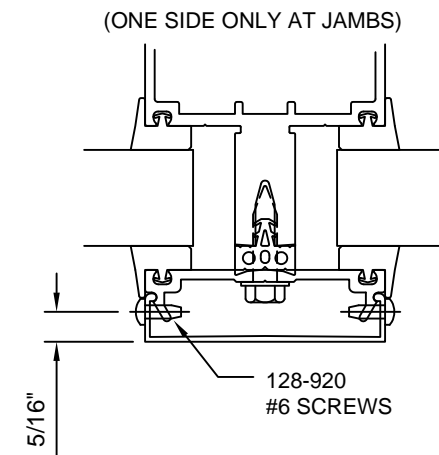
CAPTURED VERTICALS

CARE MUST BE TAKEN TO AVOID DAMAGE TO COVERS DURING INSTALLATION. USE A 18" LONG PIECE OF 2 X 4 WOOD ALONG WITH A HAMMER OR MALLET TO SEAT THE COVER.



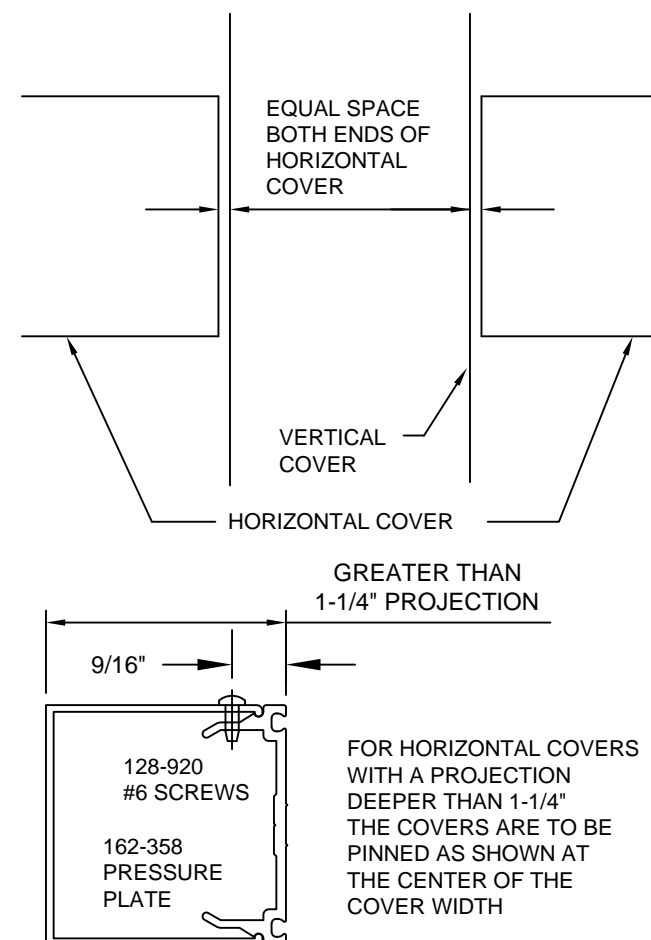
STEP - 19 INSTALL EXTERIOR COVERS

PINNING OF ALL VERTICAL COVERS IS REQUIRED FOR BOTH SIDES. DRILL A .106 DIA. HOLE (#36 DRILL) AND INSTALL 128-920 SCREWS #6 X 3/8" PAN HEAD TYPE B. LOCATE PINNING AT A HORIZONTAL CLOSEST TO THE COVER HEIGHT CENTER.



NOTE FOR 5" SIGHTLINE COVERS
DUE TO LARGE EXTRUSION TOLERANCES, 5" SIGHTLINE COVERS MAY REQUIRE SEALANT OR PINNING TO HOLD IN PLACE.

INSTALL HORIZONTAL COVERS WITH THE WEEP HOLES DOWN



494975 (SHEET 15 OF 22)

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1600 SYSTEM 2
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OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

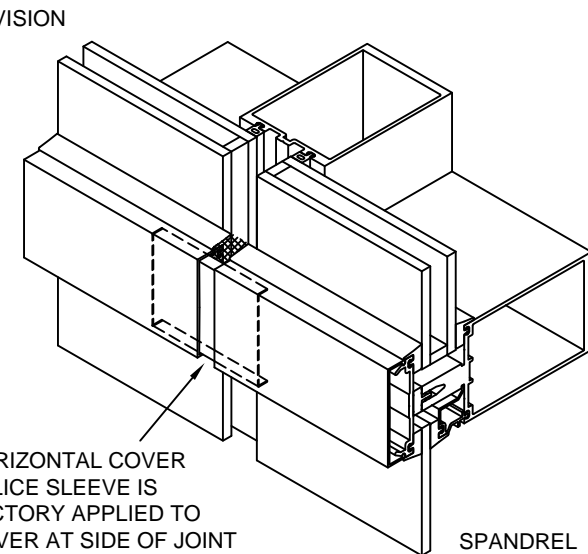
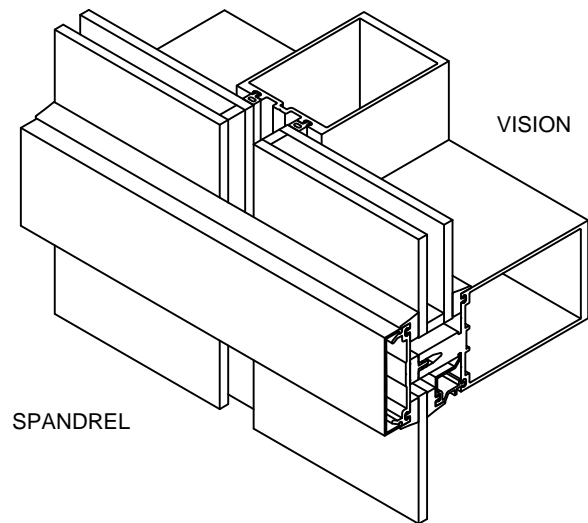
494975 (SHEET 15 OF 22)

STEP - 19 INSTALL EXTERIOR COVERS

STRUCTURAL GLAZED VERTICALS

STEM ANCHOR NOT ALIGNED WITH HORIZONTAL

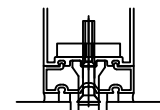
INSTALL HORIZONTAL COVERS WITH THE WEEP HOLES DOWN



STRUCTURAL GLAZED VERTICALS

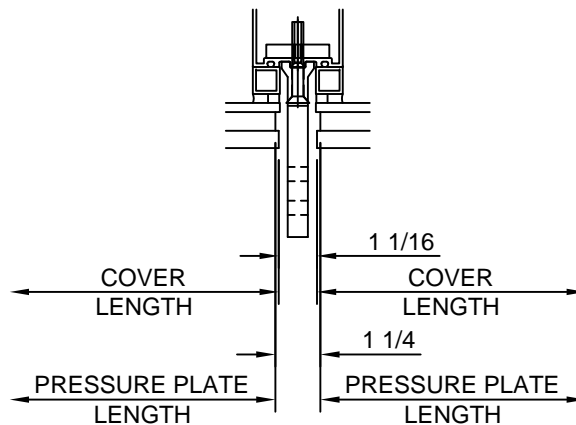
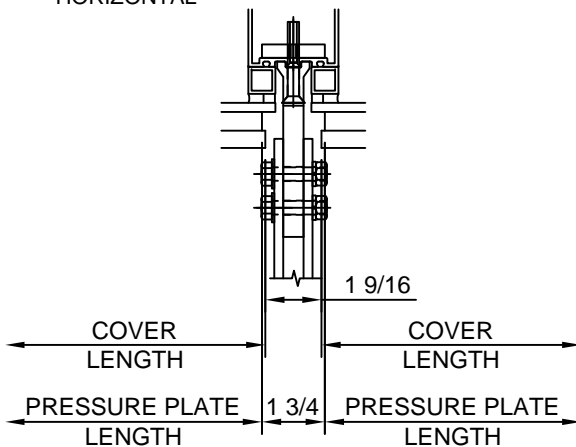
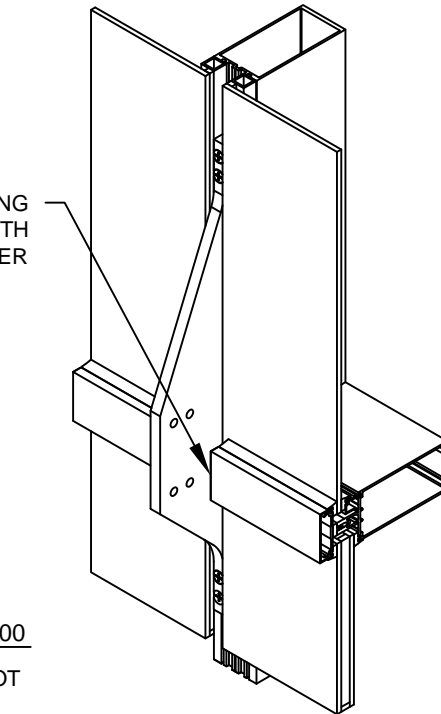
HORIZONTAL ALIGNED WITH OUTRIGGERS

INSTALL COVER LEAVING EQUAL SPACING ON BOTH ENDS OF THE COVER



1.000

STEM ANCHOR NOT ALIGNED WITH HORIZONTAL

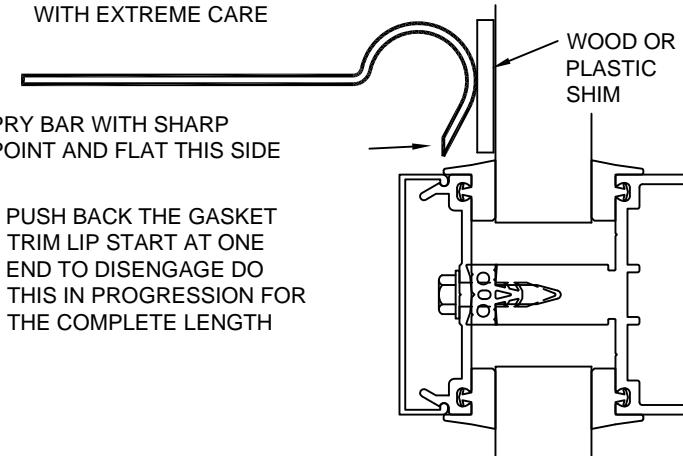


REMOVING COVERS

COVERS CAN BE SAVED IF TOLERANCES ARE NOT TOO TIGHT AND THE COVER IS REMOVED WITH EXTREME CARE

PRY BAR WITH SHARP POINT AND FLAT THIS SIDE

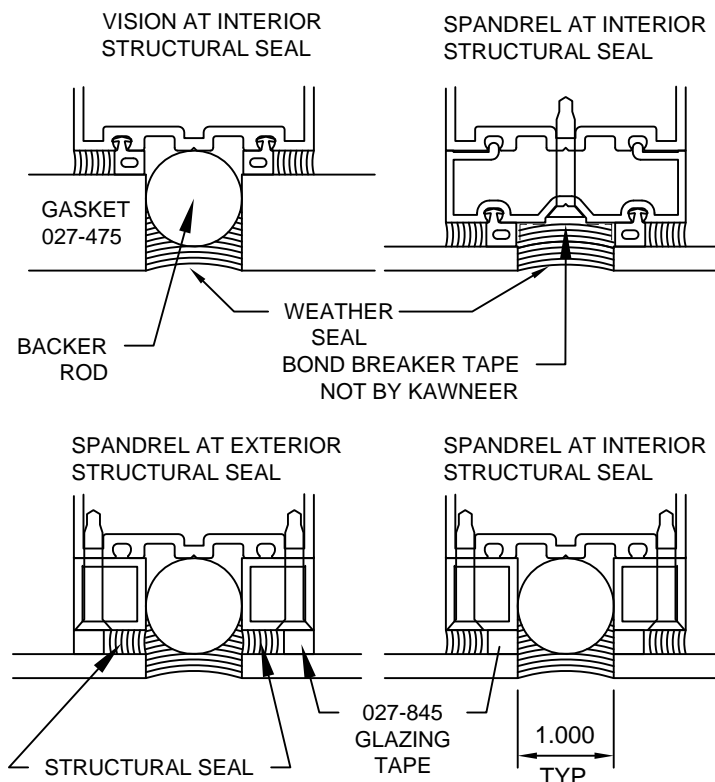
PUSH BACK THE GASKET TRIM LIP START AT ONE END TO DISENGAGE DO THIS IN PROGRESSION FOR THE COMPLETE LENGTH



STEP - 20 INSTALL STRUCTURAL AND WEATHER SEALS

KAWNEER DOES NOT SUPPLY SEALANT. SEALANT TO BE SILICONE AS RECOMMENDED BY THE SEALANT MANUFACTURER. INFILL AND METAL TO BE CLEANED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS. SEALANT BACKER ROD TO BE PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS.

FILL SPACE BETWEEN INSULATED UNITS AND BEHIND SINGLE GLAZED UNITS WITH RECOMMENDED BACKER ROD. APPLY STRUCTURAL SEAL AND WEATHER SEAL AS SHOWN. ALLOW STRUCTURAL SEAL TO CURE PER SEALANT MANUFACTURER'S RECOMMENDATIONS. THEN REMOVE TEMPORARY RETAINERS, SEAL FASTENER HOLES AND FILL WEATHER SEAL HOLES.

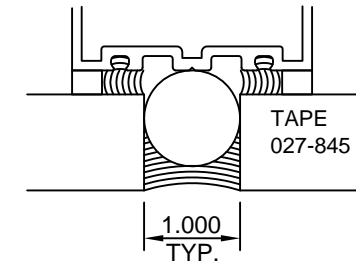


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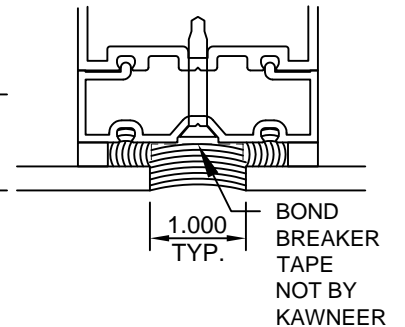
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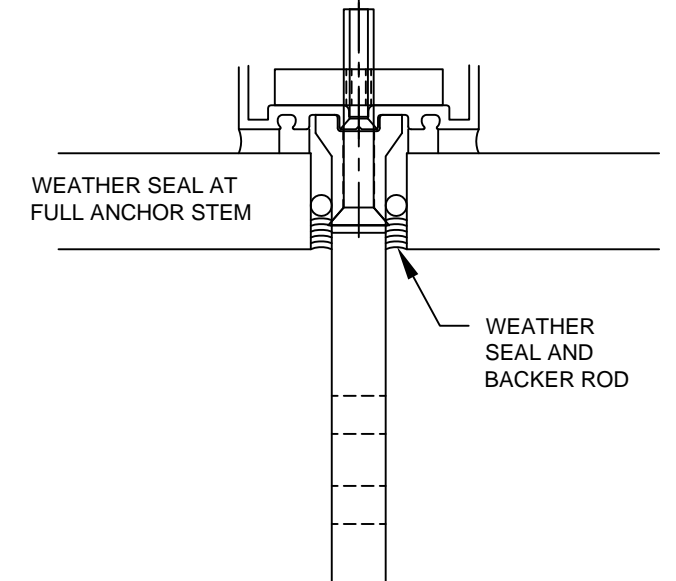
VISION AT EXTERIOR
STRUCTURAL SEAL



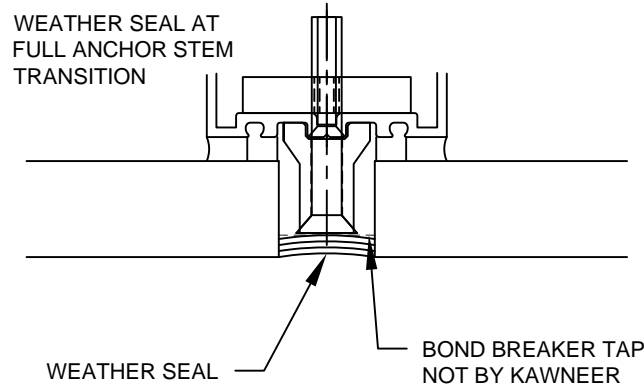
SPANDREL AT EXTERIOR
STRUCTURAL SEAL



EXTERIOR STRUCTURAL SEAL MUST BE APPLIED IN THREE STEPS. EACH SIDE SEPARATELY THEN THE WEATHER SEAL



WEATHER SEAL AT
FULL ANCHOR STEM
TRANSITION



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1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 16 OF 22)

STEP - 21 ASSEMBLE SUNSHADES

VERSOLEIL OUTRIGGER SUNSHADE BAY ASSEMBLIES USE SCREW SPLINE JOINERY. LAYOUT LEFT AND RIGHT OUTRIGGERS (JAMBS AT INSIDE CORNERS ARE HANDED PARTS), BLADES, AND FASCIA PER SHOP DRAWINGS.

USING #12-24 x 1" PAN HEAD THREAD CUTTING SCREWS (128556), JOIN BLADES AND FASCIA COMPONENTS TO ONE OUTRIGGER. DO NOT TIGHTEN. ALIGN THE OPPOSITE OUTRIGGER AND CONNECT PARTS SIMILARLY. TIGHTEN BOTH SIDES.

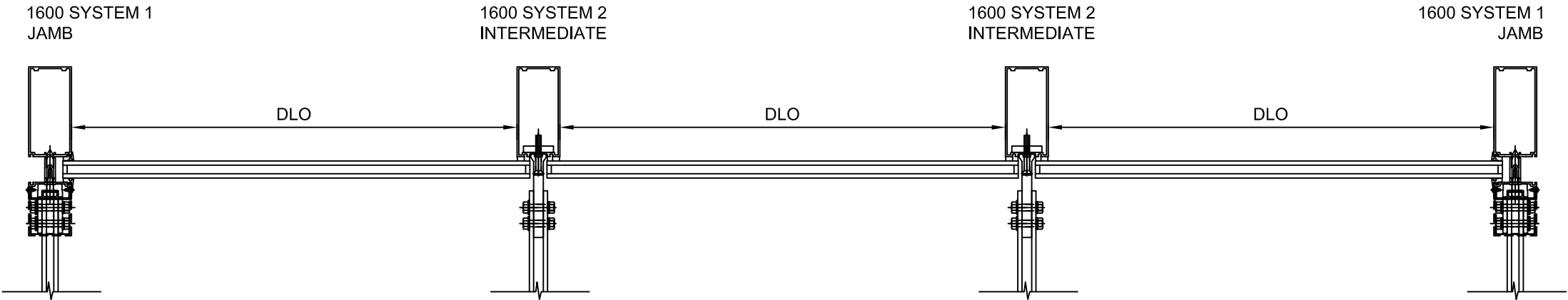
NOTE: END ASSEMBLY REQUIRES A JAMB OUTRIGGER TO BE ATTACHED BEFORE INSTALLATION. USING #12 x 2 1/2" FLAT HEAD THREAD FORMING SCREWS (904197) AND APPROPRIATE TRIM FILLER, JOIN JAMB OUTRIGGER TO BAY ASSEMBLY. TIGHTEN UNTIL FULLY SEATED AND FLUSH WITH THE SURFACE OF THE JAMB OUTRIGGER. INSTALL ANCHOR CLIP FILLER (494201) USING (1) 3/8" x 2" HEX HEAD BOLT (128539) AND TEMPORARILY ATTACH (1) 3/8" HEX NUT (028780) TO SECURE JAMB OUTRIGGER DURING INSTALLATION. CHECK SHOP DRAWINGS TO DETERMINE SPECIFIC JAMB CONDITION BEFORE PROCEEDING.

ASSEMBLE ALL OF THE VERSOLEIL OUTRIGGER SUNSHADE BAY ASSEMBLIES AND MARK OR TAG EACH ONE TO MATCH CORRESPONDING UNIT AS SHOWN ON SHOP DRAWINGS.

NOTE: INTERMEDIATE OUTRIGGERS DO NOT HAVE NOTCH AT REAR. JAMB OUTRIGGERS DO HAVE NOTCH.

* SCREWS NOT USED IF APPLYING JAMB OUTRIGGER

NOTE THAT COUNTERSUNK HOLES ON JAMB OUTRIGGER WILL BE ON THE OUTSIDE OF THE VERSOLEIL OUTRIGGER SUNSHADE BAY ASSEMBLY



494975 (SHEET 17 OF 22)

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INSTALLING THE SUNSHADES

ARRANGE THE SUNSHADE BAY ASSEMBLIES ON THE CONSTRUCTION SITE ACCORDING TO THEIR CORRESPONDING POSITION ON THE BUILDING. CHECK AGAINST SHOP DRAWINGS.

INSTALLATION CAN TAKE PLACE LEFT TO RIGHT OR RIGHT TO LEFT AS WELL AS TOP TO BOTTOM OR BOTTOM TO TOP (IN MULTIPLE STORY INSTALLATIONS). DEPENDING ON HOISTING METHOD, DETERMINE THE ORDER MOST APPROPRIATE FOR YOUR INSTALLATION. THE FOLLOWING INSTRUCTIONS WILL DEMONSTRATE A ONE-STORY INSTALLATION, RIGHT TO LEFT.

A. INSTALL FIRST BAY ASSEMBLY

HOIST AND POSITION THE FIRST SUNSHADE BAY ASSEMBLY UNTIL THE FOUR CLEAR HOLES ON BOTH OUTRIGGERS ALIGN WITH THE CORRESPONDING HOLES IN THE ANCHOR CLIP (IF JAMB PRESENT) AND ANCHOR STEM (INTERMEDIATES). THE OUTRIGGERS SHOULD BE POSITIONED ON THE INSIDE OF THE ANCHOR CLIP AND THE OUTSIDE OF THE ANCHOR STEM. JAMB ASSEMBLY WILL REQUIRE TEMPORARY FASTENER AT ANCHOR CLIP FILLER TO BE REMOVED JUST PRIOR TO ANCHORING. HOLD SPACER IN PLACE TO PREVENT IT FROM FALLING OUT OF POSITION. SEE INSTALLATION INSTRUCTIONS 494970.

ON THE STEM ANCHOR SIDE OF THE FIRST BAY ASSEMBLY INSERT (4) 3/8-16 x 1/1-1/2" HEX HEAD MACHINE SCREWS (128-970) THROUGH (4) 3/8" WASHERS 028596 INTO THE STEM ANCHOR. DO NOT INSERT THE HEX HEAD BOLTS BEYOND THE PLANE OF THE ANCHOR STEM RECEIVING THE SECOND BAY. DO NOT INSTALL CORRESPONDING LOCK WASHER AND NUT UNTIL THE SECOND BAY IS HOISTED INTO POSITION.

JAMB NOTE:

REFERENCE 494970 1600 SYSTEM 1 SUNSHADE INSTALLATION INSTRUCTIONS

VERSOLEIL OUTRIGGER SUNSHADE BAYS TO BE INSTALLED AFTER 1" COVERS.

VERSOLEIL OUTRIGGER SUNSHADE BAYS TO BE INSTALLED BEFORE OPTIONAL 3 1/8" COVERS.



1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 17 OF 22)

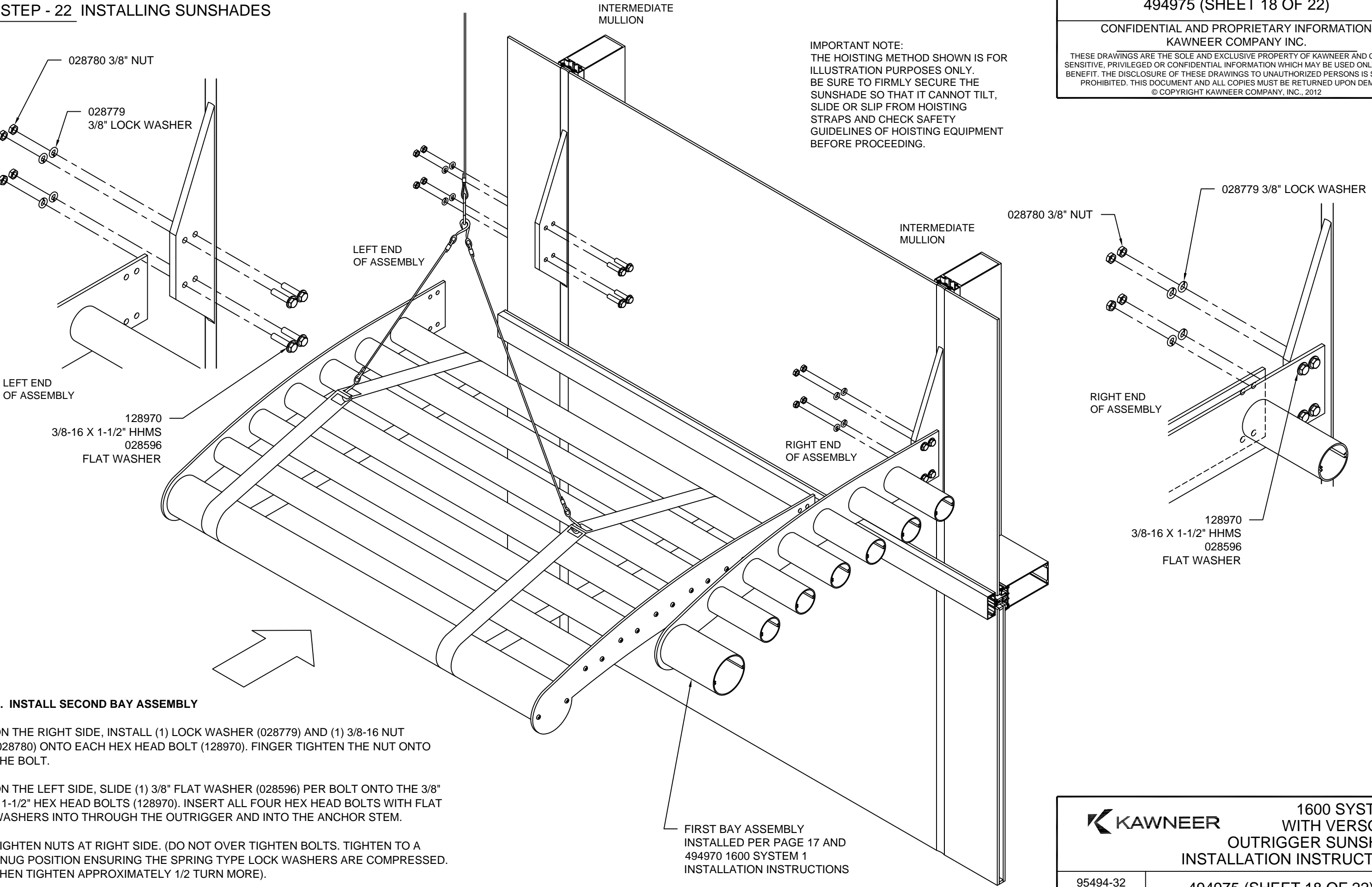
STEP - 22 INSTALLING SUNSHADES

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IMPORTANT NOTE:
THE HOISTING METHOD SHOWN IS FOR ILLUSTRATION PURPOSES ONLY.
BE SURE TO FIRMLY SECURE THE SUNSHADE SO THAT IT CANNOT TILT, SLIDE OR SLIP FROM HOISTING STRAPS AND CHECK SAFETY GUIDELINES OF HOISTING EQUIPMENT BEFORE PROCEEDING.



B. INSTALL SECOND BAY ASSEMBLY

ON THE RIGHT SIDE, INSTALL (1) LOCK WASHER (028779) AND (1) 3/8-16 NUT (028780) ONTO EACH HEX HEAD BOLT (128970). FINGER TIGHTEN THE NUT ONTO THE BOLT.

ON THE LEFT SIDE, SLIDE (1) 3/8\" FLAT WASHER (028596) PER BOLT ONTO THE 3/8\" x 1-1/2\" HEX HEAD BOLTS (128970). INSERT ALL FOUR HEX HEAD BOLTS WITH FLAT WASHERS INTO THROUGH THE OUTRIGGER AND INTO THE ANCHOR STEM.

TIGHTEN NUTS AT RIGHT SIDE. (DO NOT OVER TIGHTEN BOLTS. TIGHTEN TO A SNUG POSITION ENSURING THE SPRING TYPE LOCK WASHERS ARE COMPRESSED. THEN TIGHTEN APPROXIMATELY 1/2 TURN MORE).

FIRST BAY ASSEMBLY
INSTALLED PER PAGE 17 AND
494970 1600 SYSTEM 1
INSTALLATION INSTRUCTIONS



1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

95494-32
07/09/12

494975 (SHEET 18 OF 22)

CORNERS

FOR CAPTURED VERTICALS REFERENCE 162-970, 162-972 AND 494970. VERSOLEIL OUTRIGGER SUNSHADES FOR USE WITH 1600 SYSTEM 2 SSG CORNERS ARE LIMITED TO 90 AND 135 DEGREE OUTSIDE SINGLE MULLION CORNERS. SITUATIONS THAT CALL FOR INSIDE CORNERS OR DOUBLE MULLION OUTSIDE CORNERS SHALL USE 1600 SYSTEM 1 FRAMING AND VERSOLEIL SUNSHADES AS DETAILED IN 162-970 SYSTEM 1 AND 494970 VERSOLEIL OUTRIGGER WITH 1600 SYSTEM 1 INSTALLATION INSTRUCTIONS.

1600 SYSTEM 2 WITH VERSOLEIL OUTRIGGERS MAINTAINS THE 1" WEATHER SEAL AT THE CORNERS TO ALLOW FOR VISUAL CONTINUITY. REFERENCE PREVIOUS STEPS AND APPROVED SHOP DRAWINGS FOR CORNER DETAILS.

NOTE:
USE TUBULAR HORIZONTALS WHERE POSSIBLE. WHEN USING OPEN BACK HORIZONTALS AT CORNER MULLIONS, OPEN BACK FILLER AND HORIZONTAL MAY INTERFERE WITH SHEAR BLOCK. NOTCH PARTS FOR CLEARANCE AS NECESSARY.

STEP - 23 CORNER FRAME ASSEMBLY

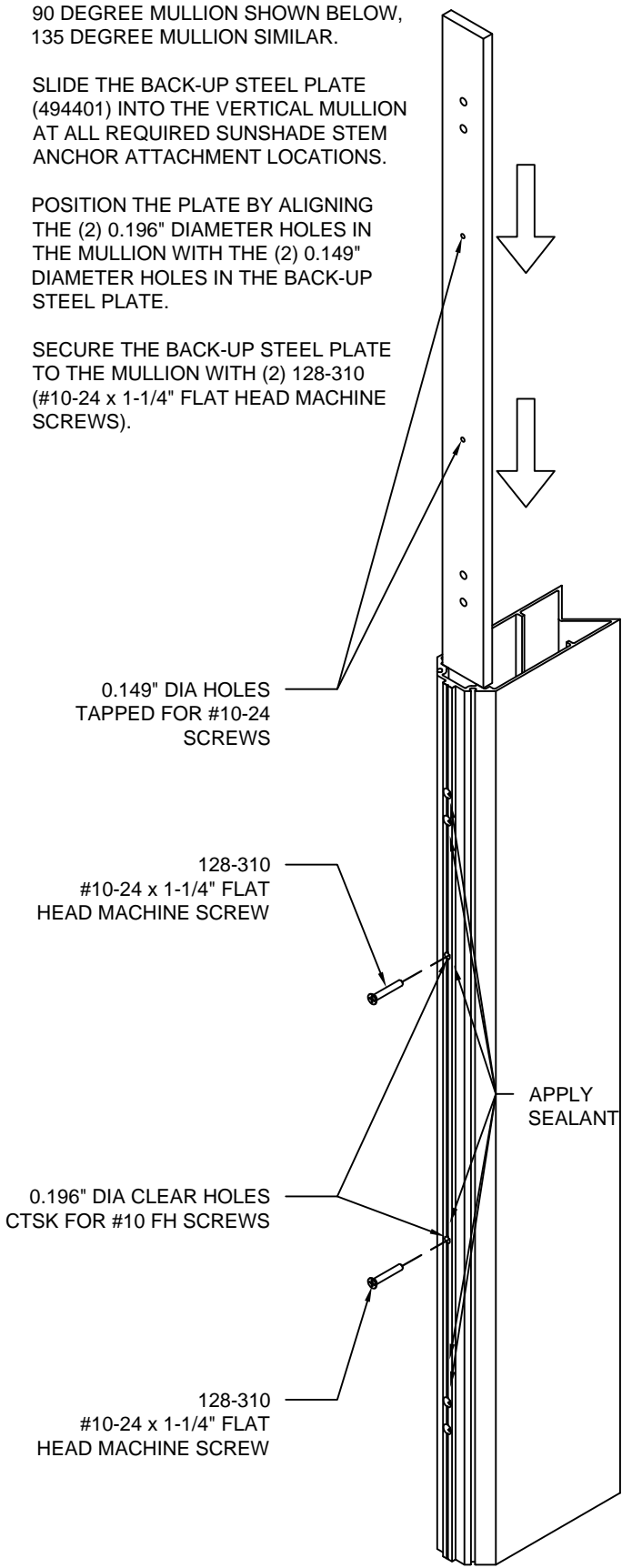
STRUCTURAL GLAZED VERTICALS

90 DEGREE MULLION SHOWN BELOW, 135 DEGREE MULLION SIMILAR.

SLIDE THE BACK-UP STEEL PLATE (494401) INTO THE VERTICAL MULLION AT ALL REQUIRED SUNSHADE STEM ANCHOR ATTACHMENT LOCATIONS.

POSITION THE PLATE BY ALIGNING THE (2) 0.196" DIAMETER HOLES IN THE MULLION WITH THE (2) 0.149" DIAMETER HOLES IN THE BACK-UP STEEL PLATE.

SECURE THE BACK-UP STEEL PLATE TO THE MULLION WITH (2) 128-310 (#10-24 x 1-1/4" FLAT HEAD MACHINE SCREWS).

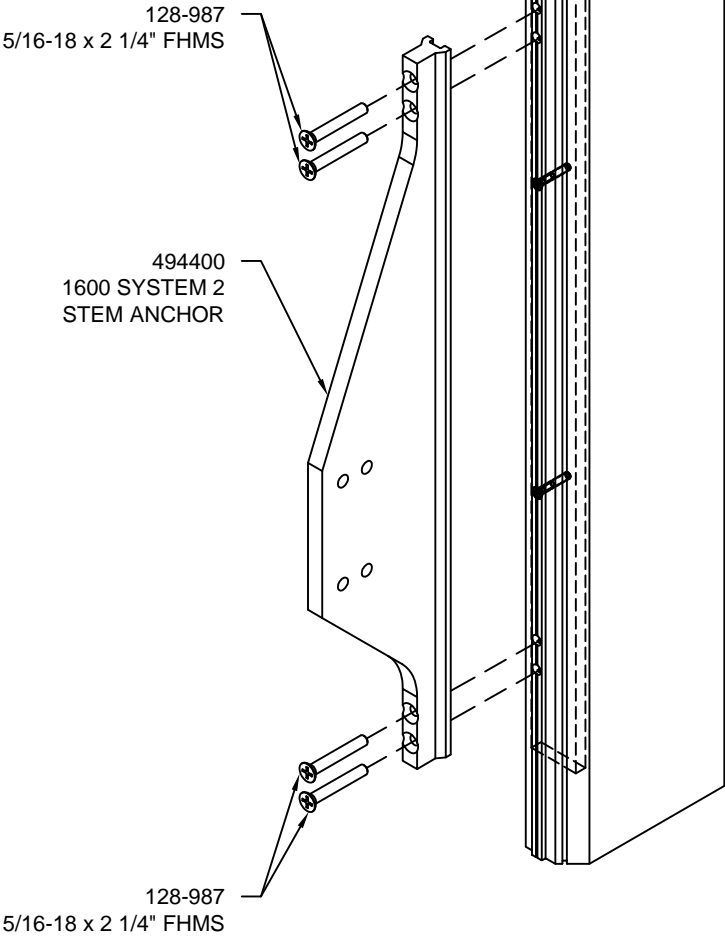


STEP - 23 CORNER FRAME ASSEMBLY

STRUCTURAL GLAZED VERTICALS

INSTALL THE SUNSHADE STEM ANCHORS (494400). INSERT (4) 128-987 (5/16"-18 x 2 1/4" FHMS) FASTENERS INTO THE STEM ANCHOR (494400). ENGAGE THE FASTENERS AND TORQUE THEM TO APPROXIMATELY 90 IN-LBS. DO NOT OVERTIGHTEN FASTENERS.

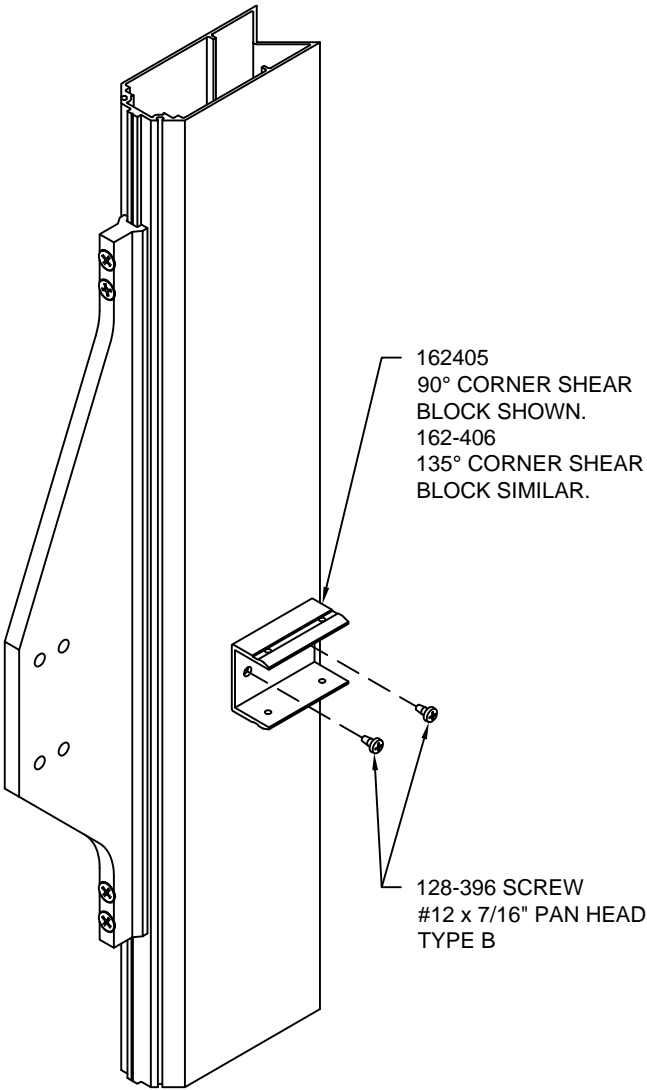
NOTE:
STEM ANCHOR IS DESIGNED SUCH THAT THE ELONGATED SIDE OF THE STEM IS THE UPPER SECTION. DO NOT INVERT THE STEM ANCHOR UNLESS ENGINEERING APPROVAL IS GIVEN.



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STEP - 24 SHEAR BLOCK ASSEMBLY

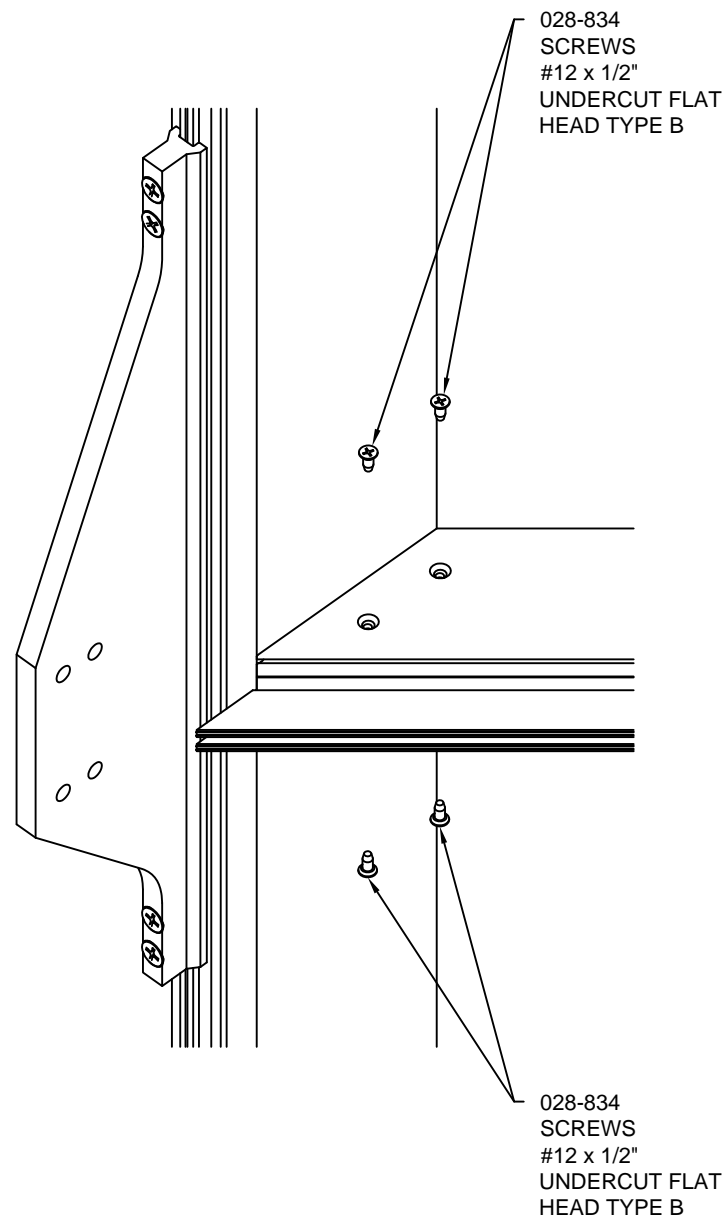
INSTALL THE REQUIRED SHEAR BLOCKS (162-405 90° OUTSIDE CORNERS, 162-406 135° OUTSIDE CORNERS) USING THE 128-396 (#12 x 7/16" PAN HEAD TYPE B) SCREWS



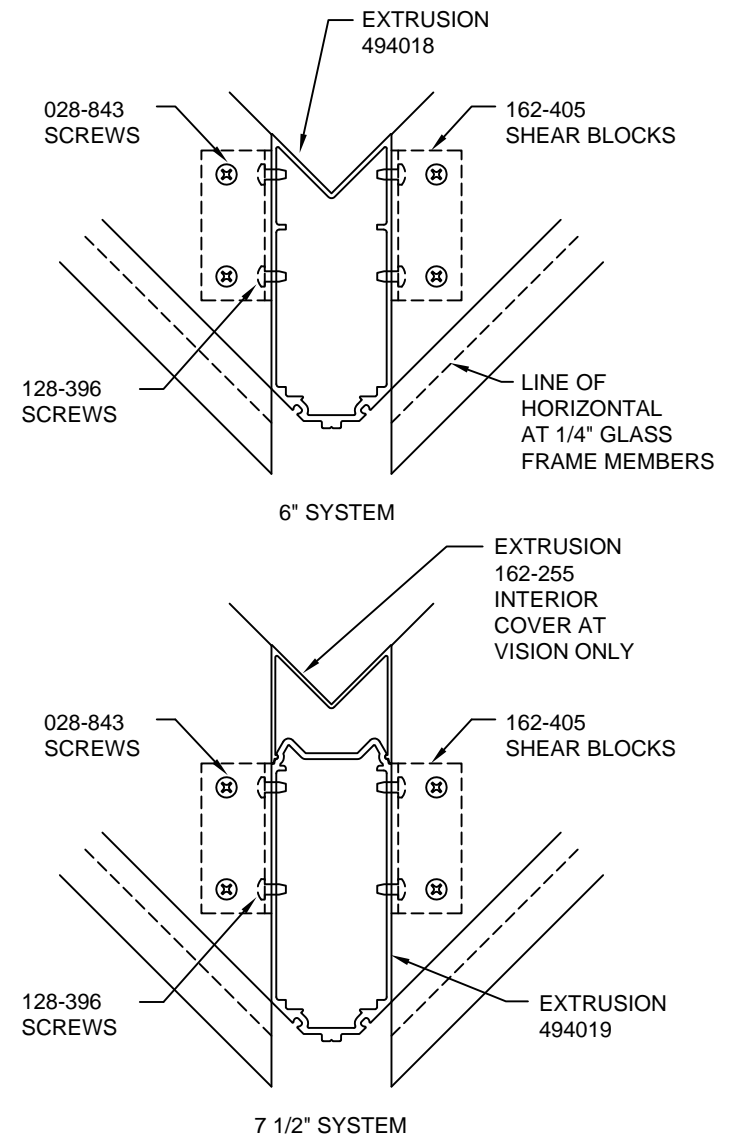
1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

STEP - 24 SHEAR BLOCK ASSEMBLY

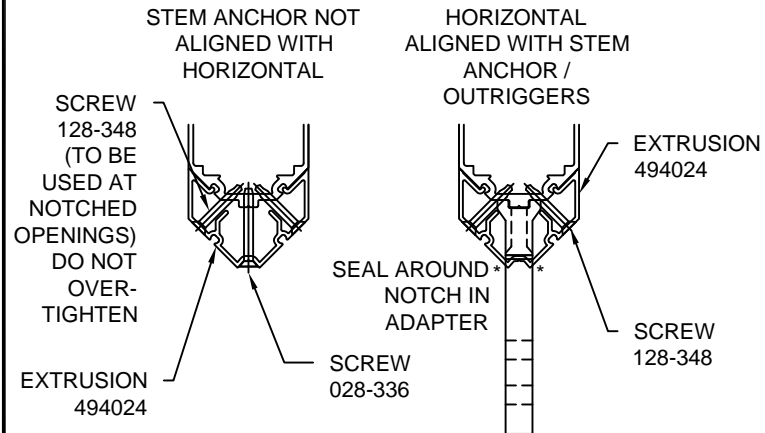
SLIDE HORIZONTAL ONTO THE SHEAR BLOCK. SECURE THE HORIZONTAL TO THE SHEAR BLOCK WITH (4) 028-834 SCREWS.



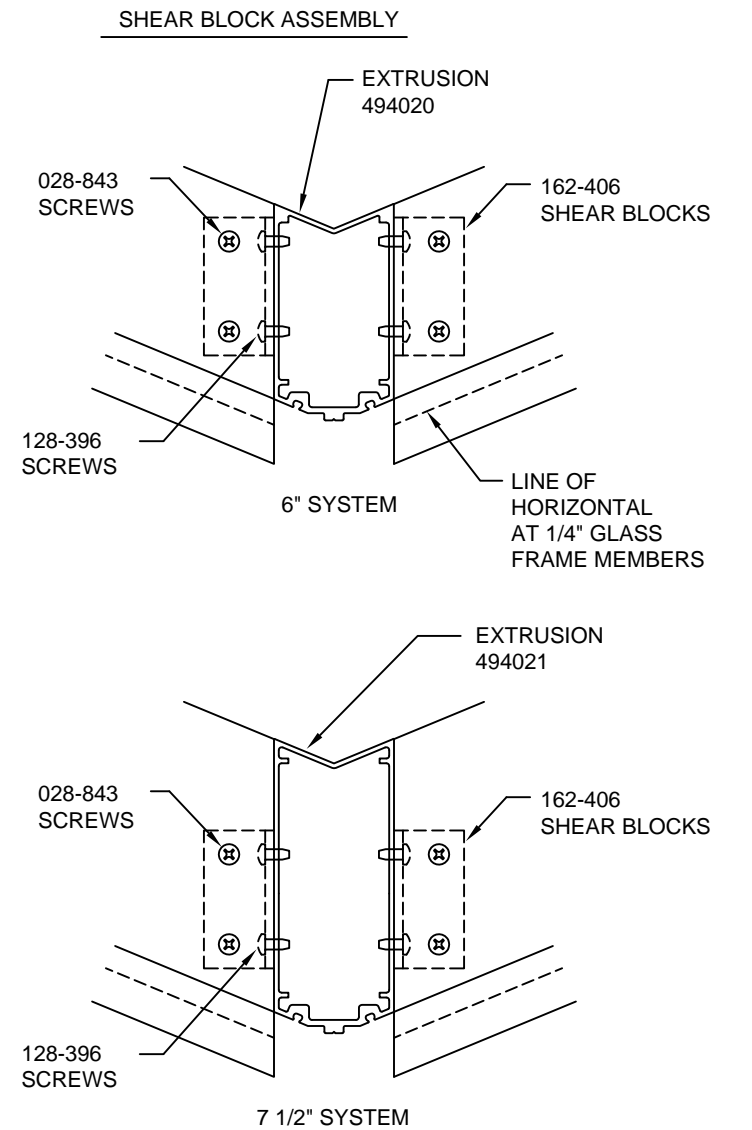
STEP - 24 SHEAR BLOCK ASSEMBLY
90 DEG OUTSIDE CORNER
SINGLE MULLION



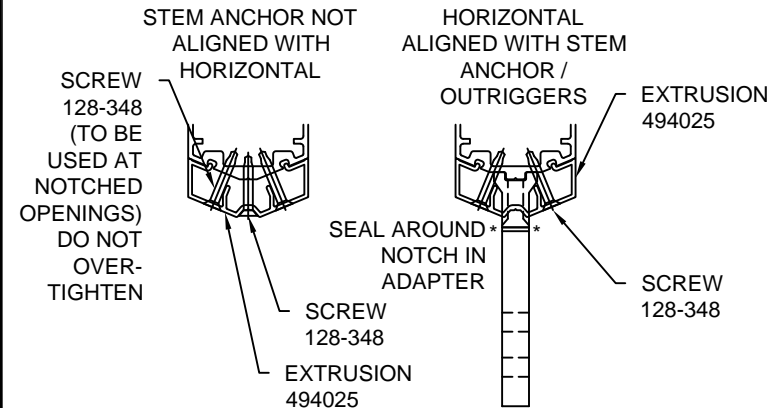
SPANDREL ADAPTERS



STEP - 24 SHEAR BLOCK ASSEMBLY
135 DEG OUTSIDE CORNER
SINGLE MULLION



SPANDREL ADAPTERS

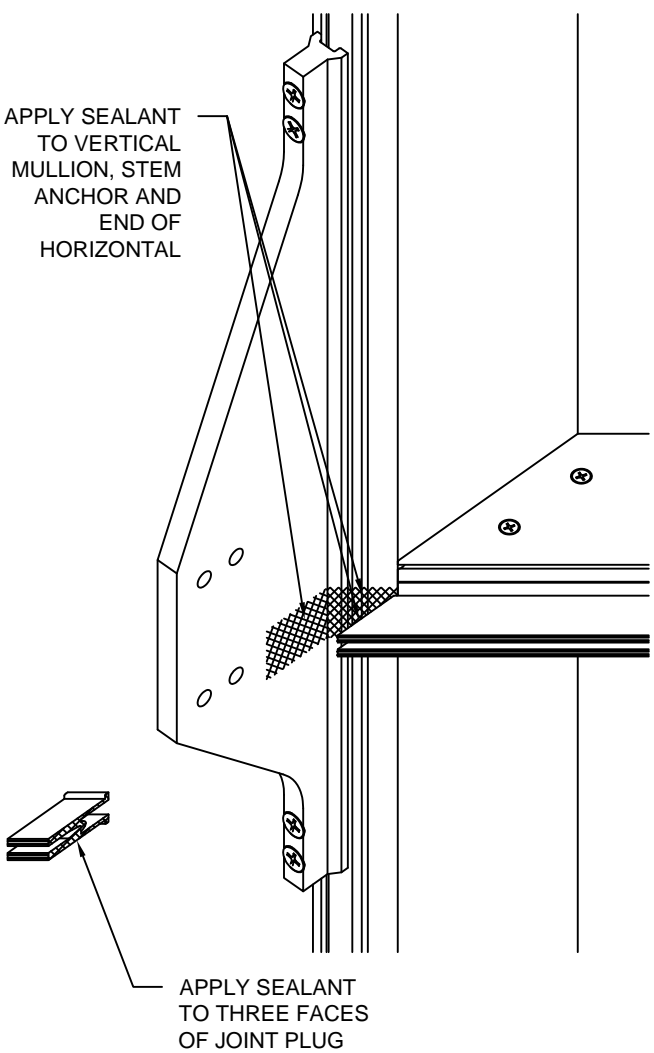


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STEP - 25 JOINT PLUG ASSEMBLY

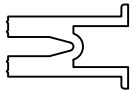
PREPARE TO INSERT JOINT PLUGS BY SEALING ALL VERTICAL MULLION GROOVES AND THE HORIZONTAL END AS SHOWN BELOW. WHERE ANCHOR STEM INTERSECTS HORIZONTALS APPLY SEALANT TO ANCHOR STEM AS SHOWN BELOW.



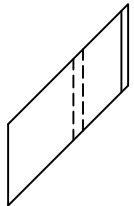
1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

STEP - 25 JOINT PLUG ASSEMBLY

ALUMINUM
JOINT PLUG
1" GLASS
FRAME MEMBERS
90° CORNERS

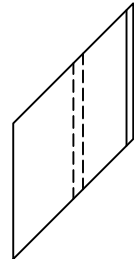


USE AT INTERSECTING HORIZONTALS
494407

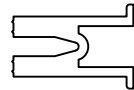


VERTICAL MULLIONS - NO STEM ANCHOR

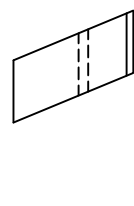
162-407



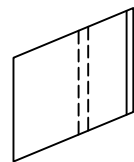
ALUMINUM
JOINT PLUG
1" GLASS
FRAME MEMBERS
135° CORNERS



494408

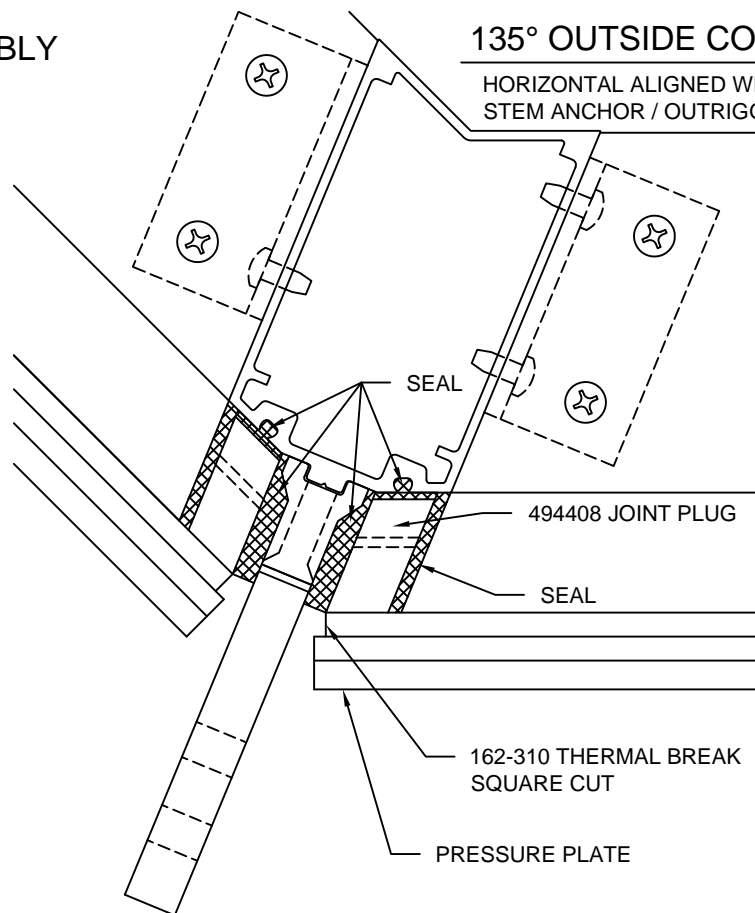


162-408



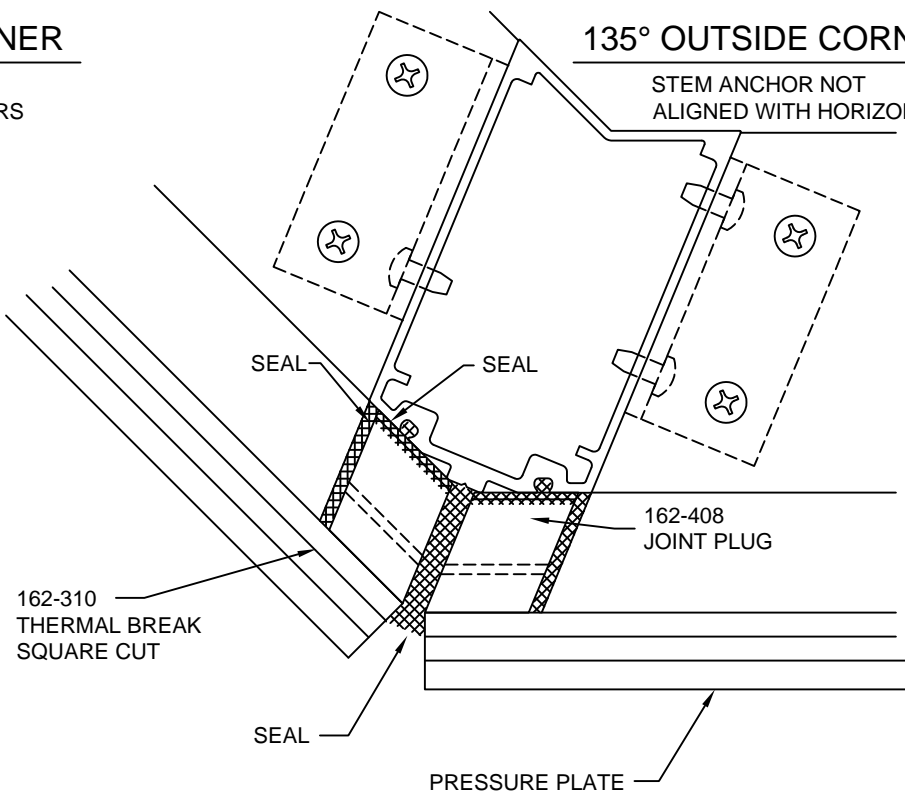
135° OUTSIDE CORNER

HORIZONTAL ALIGNED WITH
STEM ANCHOR / OUTRIGGERS



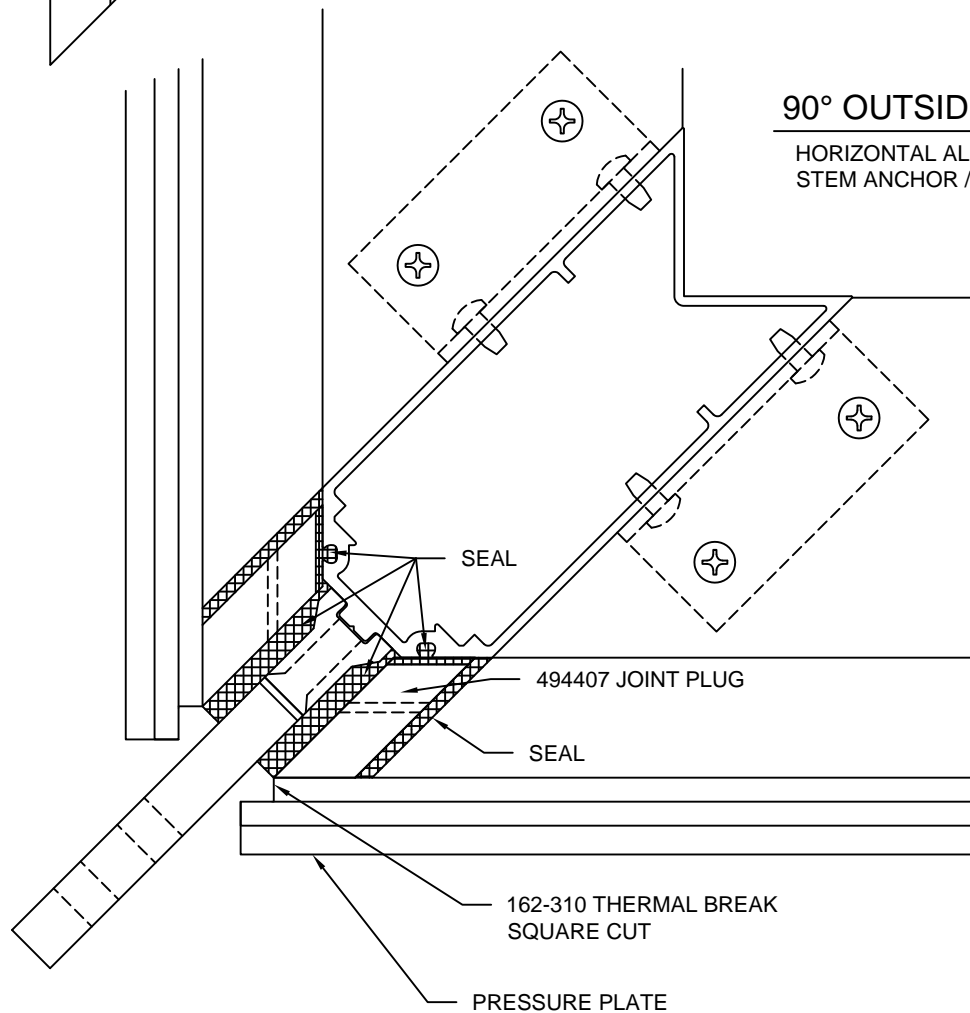
135° OUTSIDE CORNER

STEM ANCHOR NOT
ALIGNED WITH HORIZONTAL



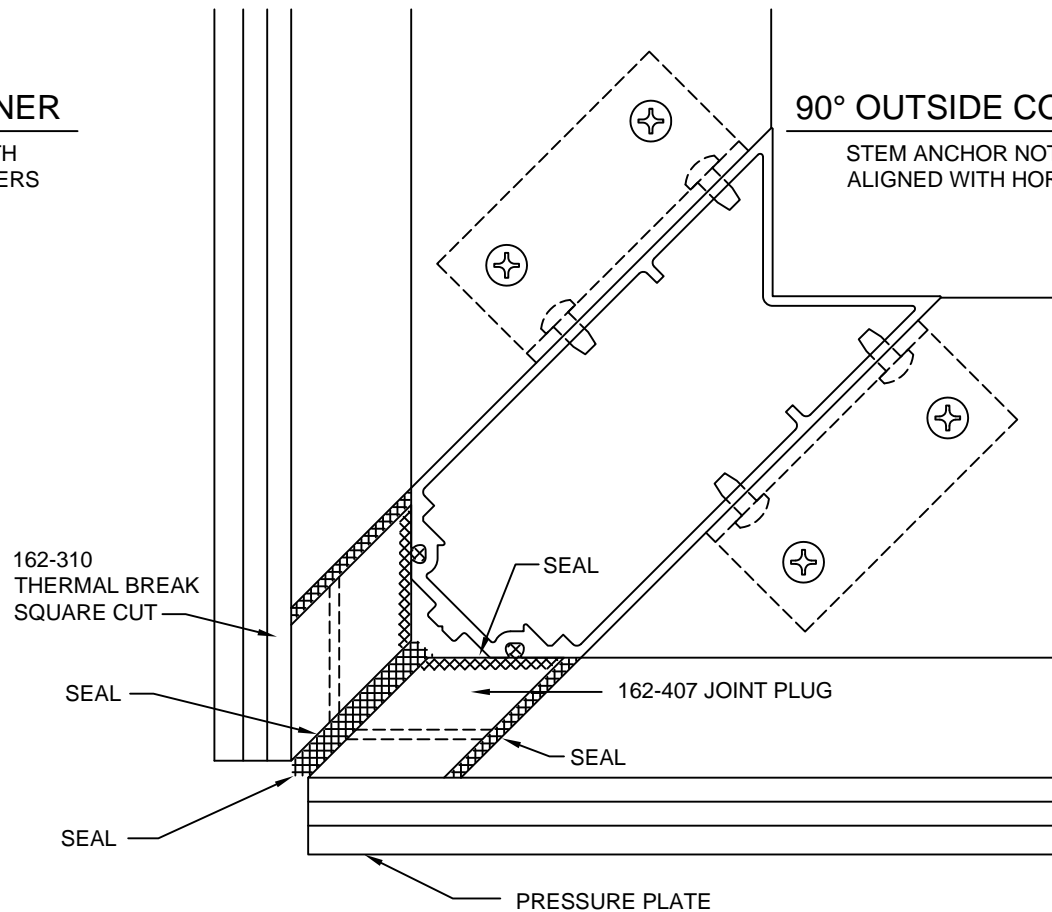
90° OUTSIDE CORNER

HORIZONTAL ALIGNED WITH
STEM ANCHOR / OUTRIGGERS



90° OUTSIDE CORNER

STEM ANCHOR NOT
ALIGNED WITH HORIZONTAL



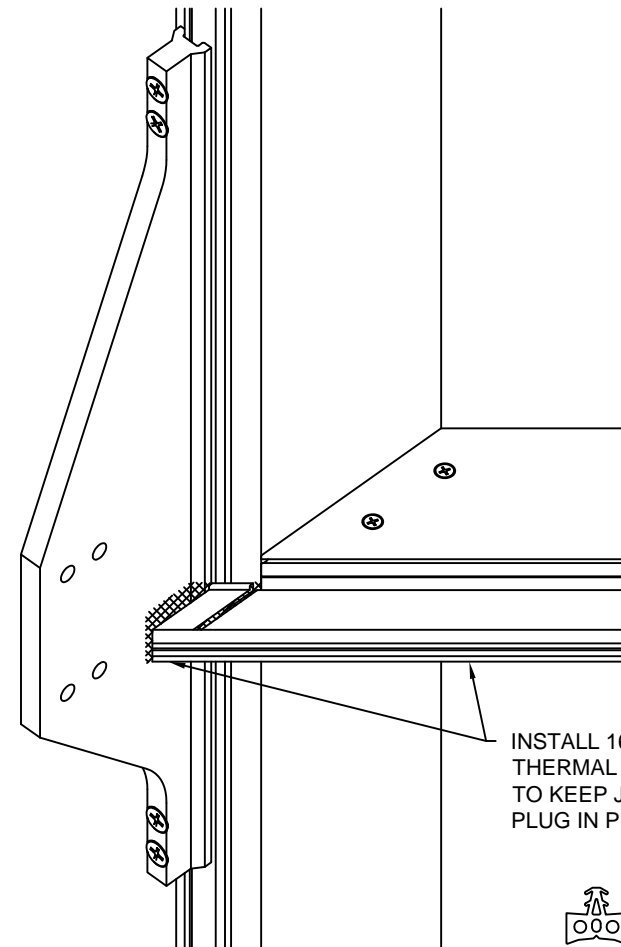
494975 (SHEET 21 OF 22)

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STEP - 25 JOINT PLUG ASSEMBLY

INSTALL JOINT PLUGS USING THE 162-310 THERMAL BREAK
TO HOLD THE PLUG IN PLACE



INSTALL 162-310
THERMAL BREAK
TO KEEP JOINT
PLUG IN PLACE.



162-310

KAWNEER

1600 SYSTEM 2
WITH VERSOLEIL
OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS

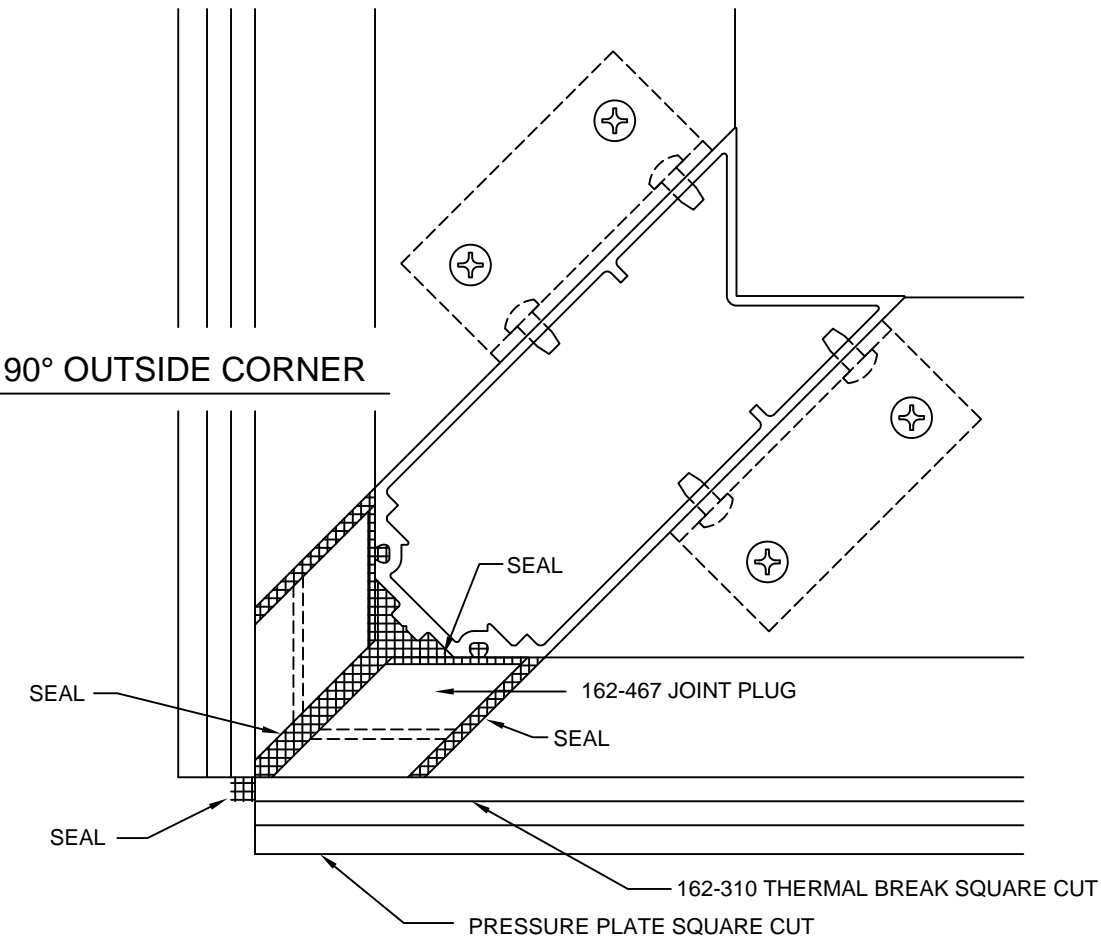
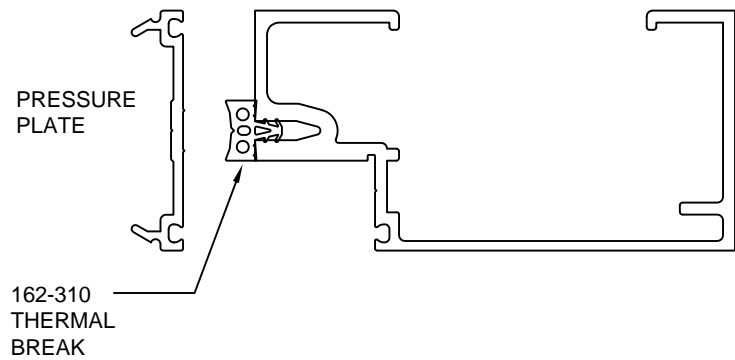
95494-32
07/09/12

494975 (SHEET 21 OF 22)

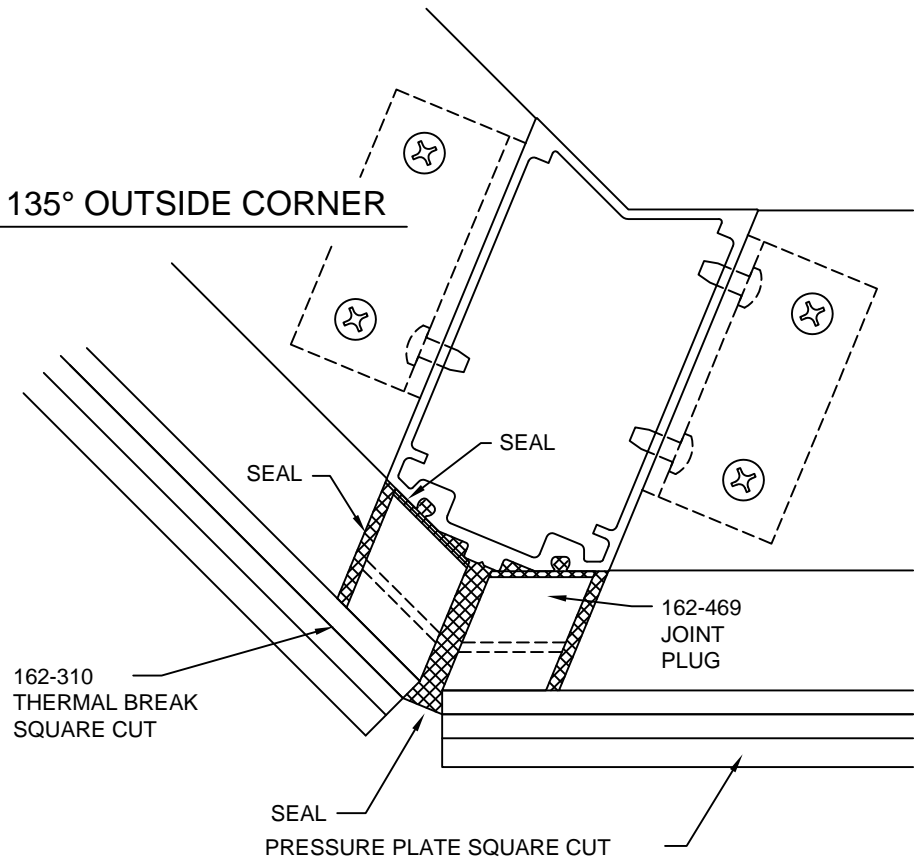
STEP - 26 EXTERIOR FRAME PERIMETERS

INSTALLATION SEQUENCE

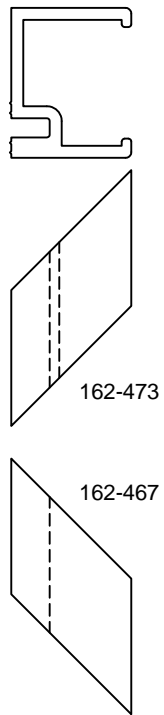
- 1-SEAL VERTICAL MULLION GROOVES AND HORIZONTAL END AS SHOWN IN INSTRUCTIONS 162-971 ON SHEET #5, STEP #9.
- 2-INSTALL JOINT PLUGS USING THE 162-310 THERMAL BREAK TO HOLD THE PLUG IN PLACE.
- 3-SEAL JOINT PLUG AND THERMAL BREAK JOINTS AS SHOWN
- 4-DURING GLAZING, PRESSURE PLATE TO BE SQUARE CUT AS SHOWN AND COMPLETELY SEALED.



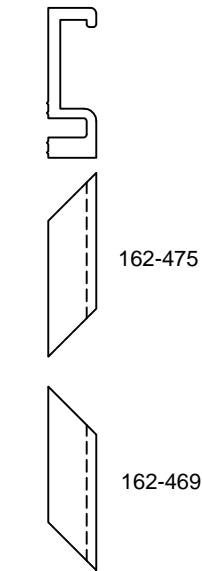
135° OUTSIDE CORNER



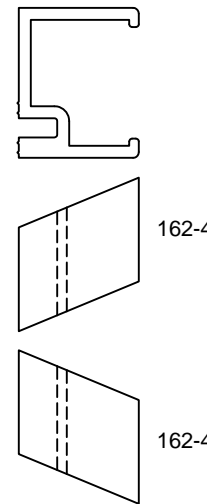
162-467/473
ALUMINUM
JOINT PLUG
1" GLASS
FRAME MEMBERS
90° CORNERS



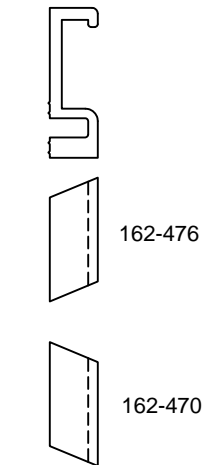
162-469/475
ALUMINUM
JOINT PLUG
1/4" GLASS
FRAME MEMBERS
90° CORNERS



162-468/474
ALUMINUM
JOINT PLUG
1" GLASS
FRAME MEMBERS
135° CORNERS



162-470/476
ALUMINUM
JOINT PLUG
1/4" GLASS
FRAME MEMBERS
135° CORNERS



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1600 SYSTEM 2
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OUTRIGGER SUNSHADE
INSTALLATION INSTRUCTIONS