

Dec-08/2022

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NORTH STAR WINDOWS AND DOORS

INSTALLATION OF KD DOOR



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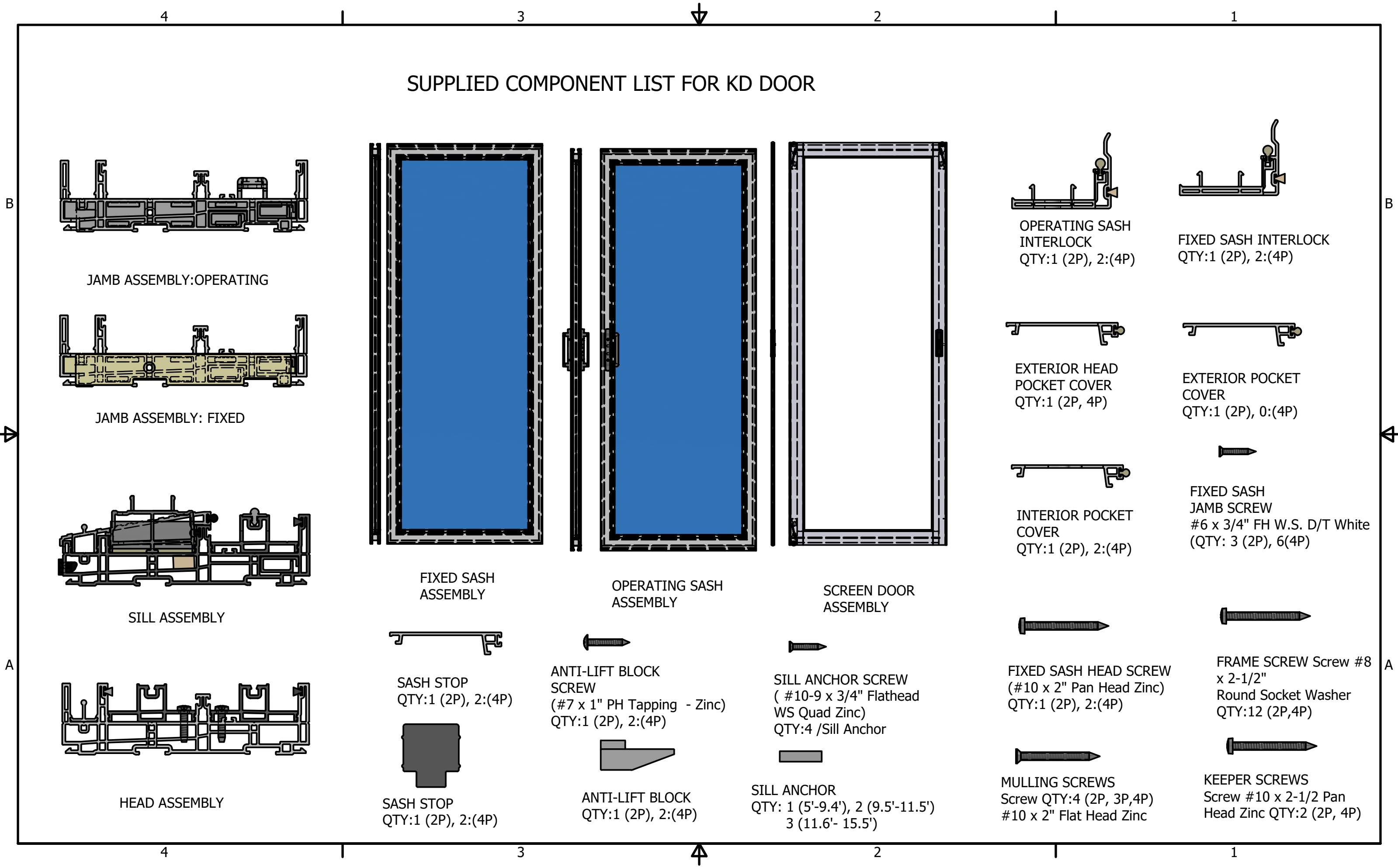
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SUPPLIED COMPONENT LIST FOR KD DOOR



JAMB ASSEMBLY: OPERATING

JAMB ASSEMBLY: FIXED

SILL ASSEMBLY

HEAD ASSEMBLY

FIXED SASH ASSEMBLY

OPERATING SASH ASSEMBLY

SCREEN DOOR ASSEMBLY

OPERATING SASH INTERLOCK  
QTY:1 (2P), 2:(4P)

FIXED SASH INTERLOCK  
QTY:1 (2P), 2:(4P)

EXTERIOR HEAD POCKET COVER  
QTY:1 (2P, 4P)

EXTERIOR POCKET COVER  
QTY:1 (2P), 0:(4P)

INTERIOR POCKET COVER  
QTY:1 (2P), 2:(4P)

FIXED SASH JAMB SCREW  
#6 x 3/4" FH W.S. D/T White  
(QTY: 3 (2P), 6(4P))

FIXED SASH HEAD SCREW  
(#10 x 2" Pan Head Zinc)  
QTY:1 (2P), 2:(4P)

FRAME SCREW Screw #8 x 2-1/2" Round Socket Washer  
QTY:12 (2P,4P)

MULLING SCREWS  
Screw QTY:4 (2P, 3P,4P)  
#10 x 2" Flat Head Zinc

KEEPER SCREWS  
Screw #10 x 2-1/2 Pan Head Zinc QTY:2 (2P, 4P)

SASH STOP  
QTY:1 (2P), 2:(4P)

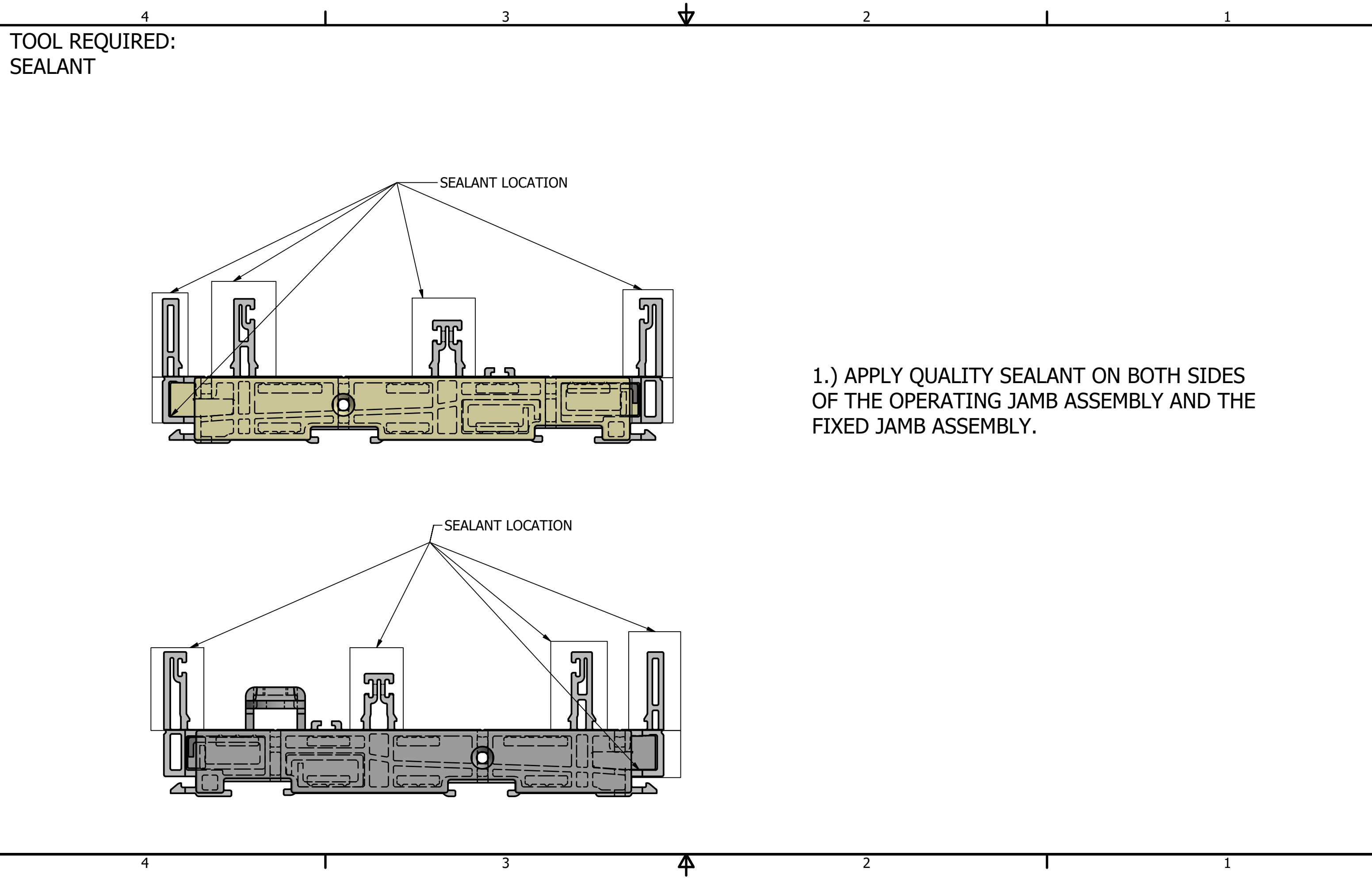
SASH STOP  
QTY:1 (2P), 2:(4P)

ANTI-LIFT BLOCK SCREW  
(#7 x 1" PH Tapping - Zinc)  
QTY:1 (2P), 2:(4P)

ANTI-LIFT BLOCK  
QTY:1 (2P), 2:(4P)

SILL ANCHOR SCREW  
( #10-9 x 3/4" Flathead WS Quad Zinc)  
QTY:4 /Sill Anchor

SILL ANCHOR  
QTY: 1 (5'-9.4'), 2 (9.5'-11.5')  
3 (11.6'- 15.5')



TOOL REQUIRED:  
SEALANT

1.) APPLY QUALITY SEALANT ON BOTH SIDES  
OF THE OPERATING JAMB ASSEMBLY AND THE  
FIXED JAMB ASSEMBLY.

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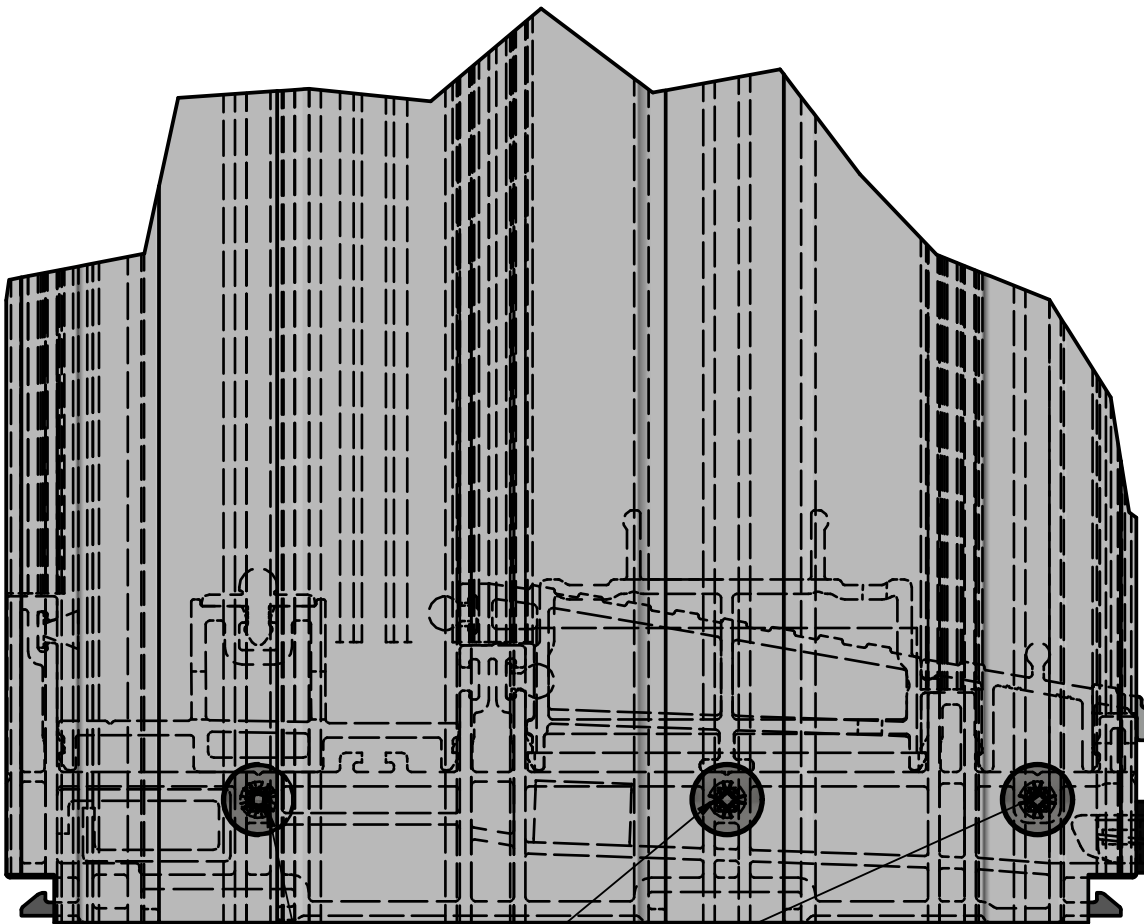
TOOL REQUIRED:  
POWER DRILL, FRAME  
SCREWS

2.) JOIN THE SILL ASSEMBLY USING 3 PAN HEAD SCREWS CAREFULLY TO NOT BOW THE EXTERIOR  
GROOVE CHANNEL.

NOTE 1: WHEN MULLING A SIDE-LITE OR ADDING AN EXTERIOR ACCESSORY  
(NAIL-FIN/ BRICKMOLD) CHANGE THE SCREW TO MULLING SCREW #10 x 3" Flat Head Zinc

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Weep Hole

Pan Head Screw

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NOTE:1

Exterior Groove Channel

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TOOLS REQUIRED:  
POWER DRILL, FRAME SCREWS

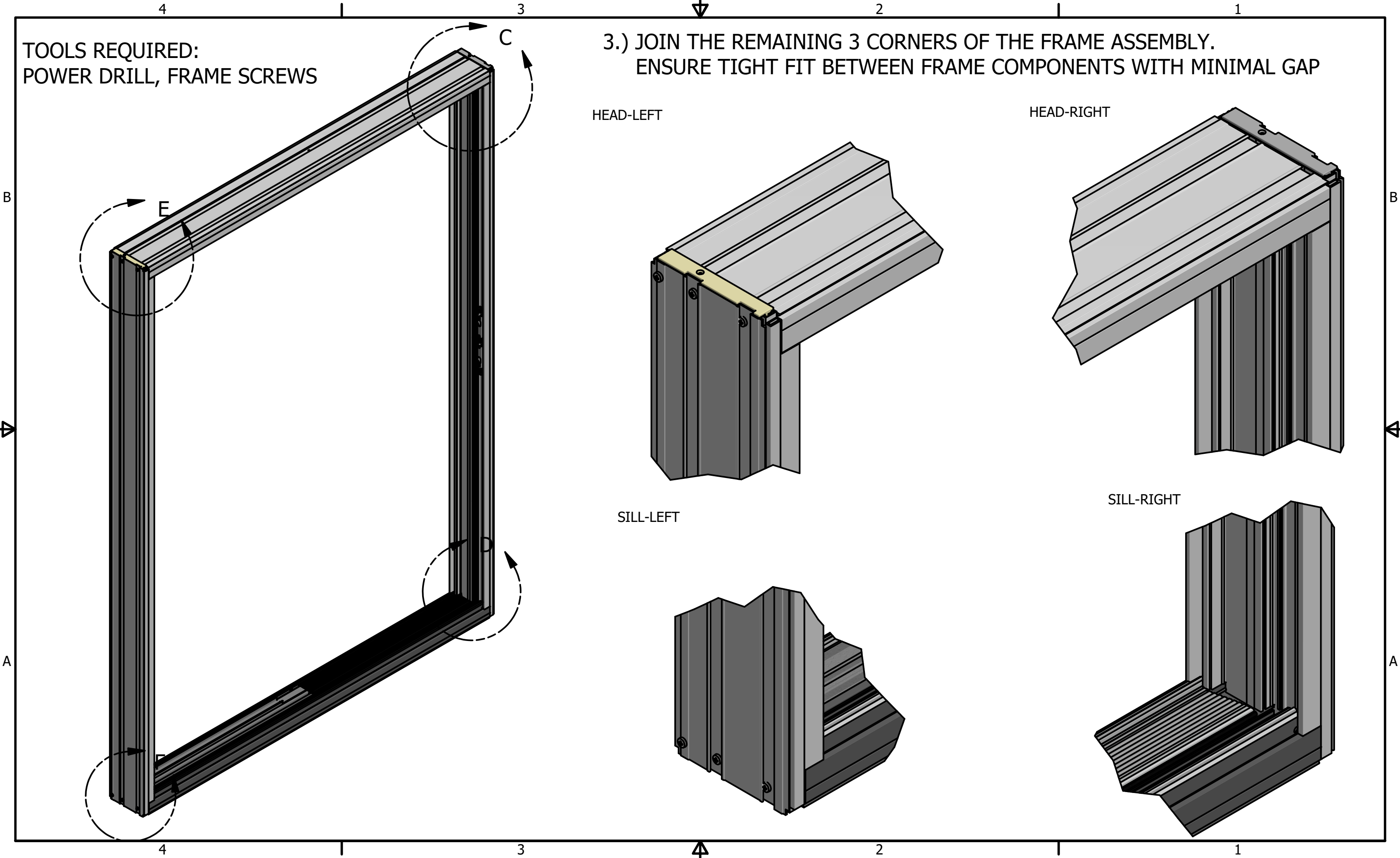
3.) JOIN THE REMAINING 3 CORNERS OF THE FRAME ASSEMBLY.  
ENSURE TIGHT FIT BETWEEN FRAME COMPONENTS WITH MINIMAL GAP

HEAD-LEFT

HEAD-RIGHT

SILL-LEFT

SILL-RIGHT



NORTH STAR HAS TWO APPROVED METHODS TO ANCHOR THE FRAME INTO THE  
ROUGH OPENING

**METHOD 1: ANCHORING THROUGH THE FRAME JAMBS AND HEAD; OR**  
**METHOD 2: ANCHORING USING INSTALLATION CLIPS AT THE JAMB AND**  
**HEAD**

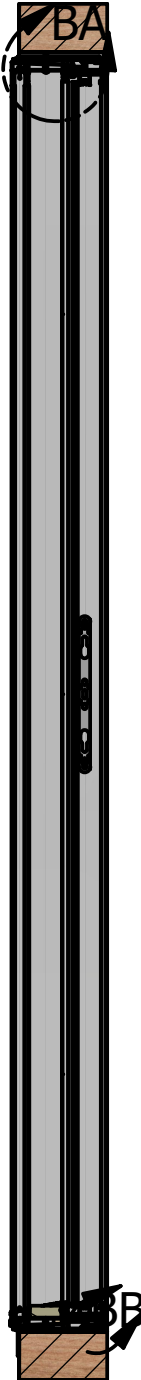
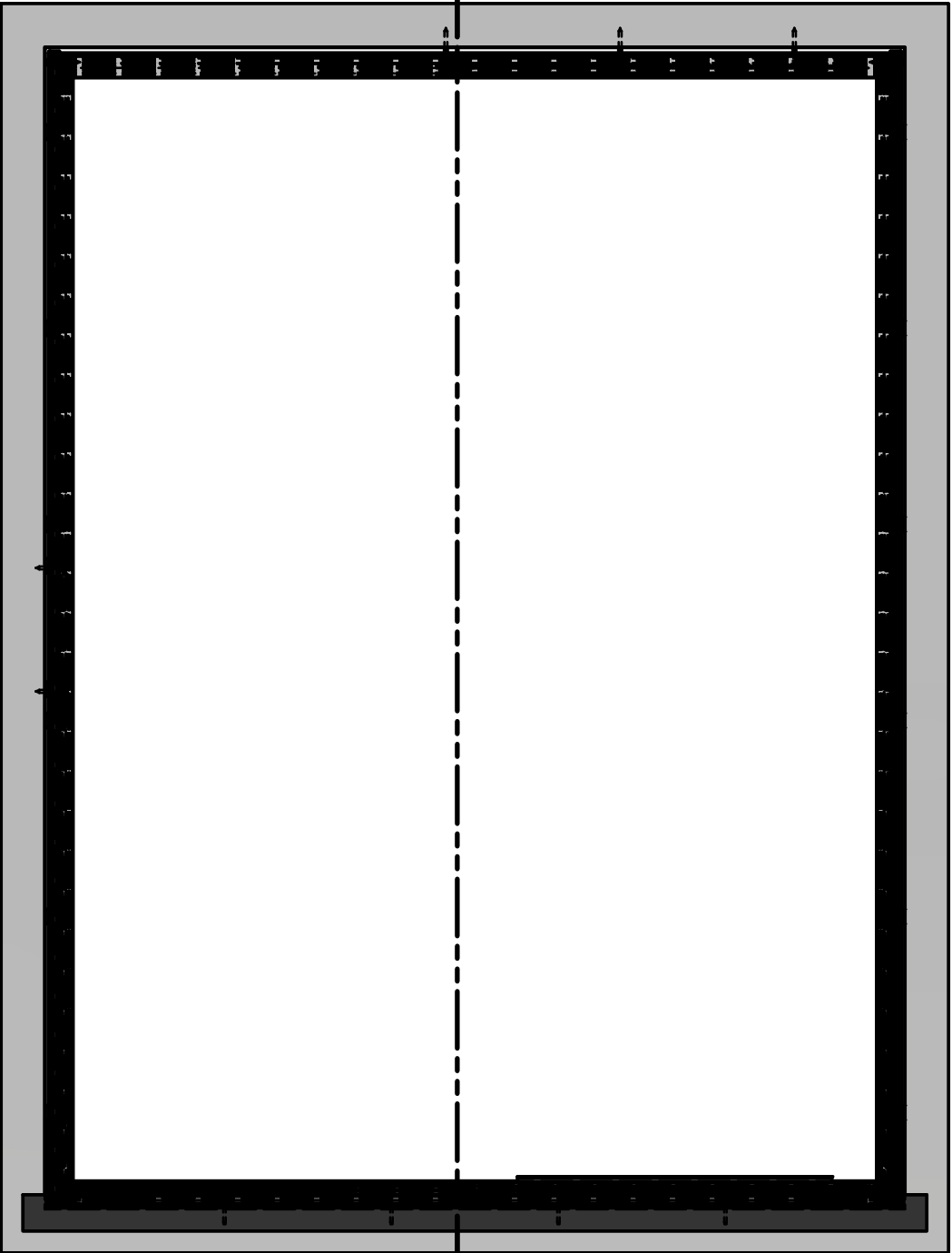
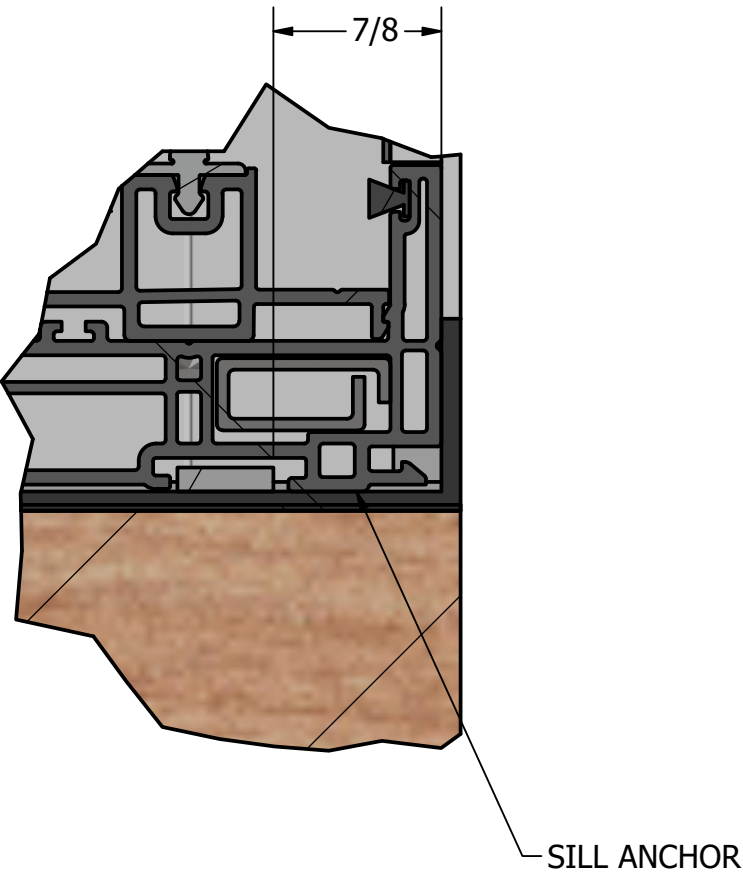
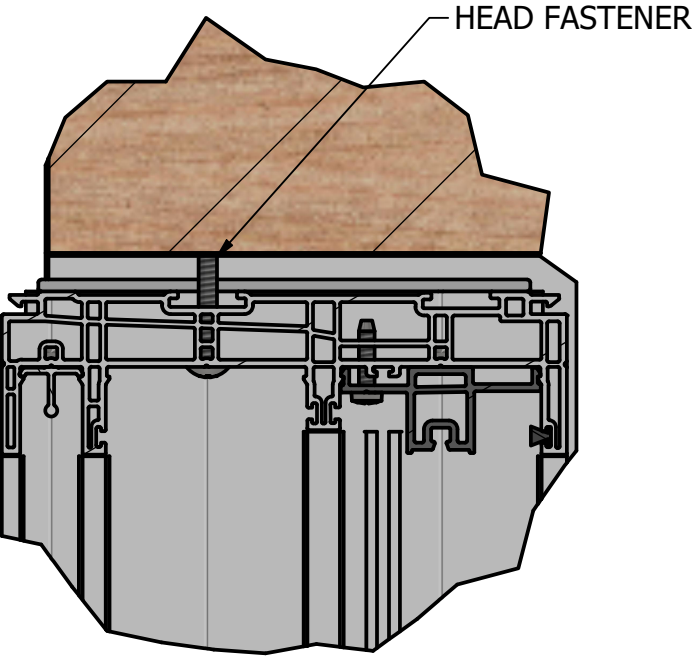
IMPORTANT NOTES:  
NORTH STAR WINDOW AND PATIO DOOR PRODUCT MUST BE SECURED THROUGH THE  
FRAME OF THE UNIT YOU ORDERED OR USING THE EXTERIOR MOUNTED STEEL CLIPS.

INSTALLATION THROUGH THE NAIL FIN ONLY IS NOT A FULL INSTALLATION. FAILURE  
TO PROPERLY INSTALL CAN RESULT IN WATER DAMAGE AND SEVER MOVEMENT OF  
THE UNIT OVER TIME AND WILL VOID WARRANTY.

DO NOT ANCHOR DOOR THROUGH THE JAMB EXTENSION

METHOD 1: ANCHORING THROUGH THE FRAME

TOOLS REQUIRED:  
TAPE MEASURE, SEALANT, POWER DRILL, SCREWS



- 4.)  
A.) CENTER FRAME IN OPENING SO THERE IS EQUAL SPACE BETWEEN THE FRAME AND THE ROUGH OPENING.  
NOTE: ENSURE SILL ANCHOR IS SITTING IN THE PROPER CHANNEL  
B.) ANCHOR THE DOOR AT THE HEAD IN THE FIXED PANEL POCKET IN THE CENTER AND 6" AWAY FROM EACH CORNER USING APPROPRIATE SCREWS

TOOLS REQUIRED:  
SHIMS, TAPE MEASURE, SEALANT, POWER  
DRILL, SCREWS

METHOD 1: ANCHORING THROUGH THE FRAME

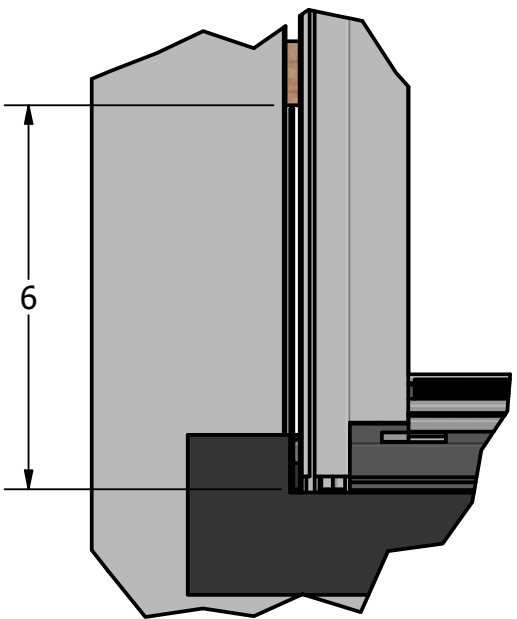
5.) SHIM SIDE JAMB FRAME MEMBERS 6" FROM TOP AND  
BOTTOM.

6.) SHIM FIXED JAMB ASSEMBLY AND OPERATING JAMB  
ASSEMBLY AT 16" INTERVALS .

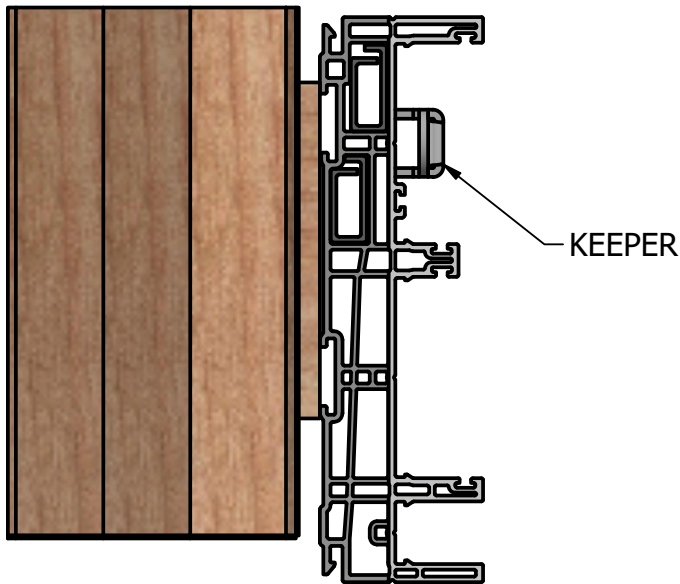
SHIMS SHOULD BE FIRM BUT NOT TIGHT ENOUGH TO  
CAUSE THE JAMBS TO BOW. CHECK THAT THE FRAME IS  
LEVEL, PLUMB, AND SQUARE; ADJUST SHIMS IF  
NECESSARY.

NOTE: ADDITIONAL SHIMS ARE REQUIRED AT SINGLE  
POINT AND MULTIPOINT KEEPER SCREW LOCATIONS. DO  
NOT SHIM THE HEAD

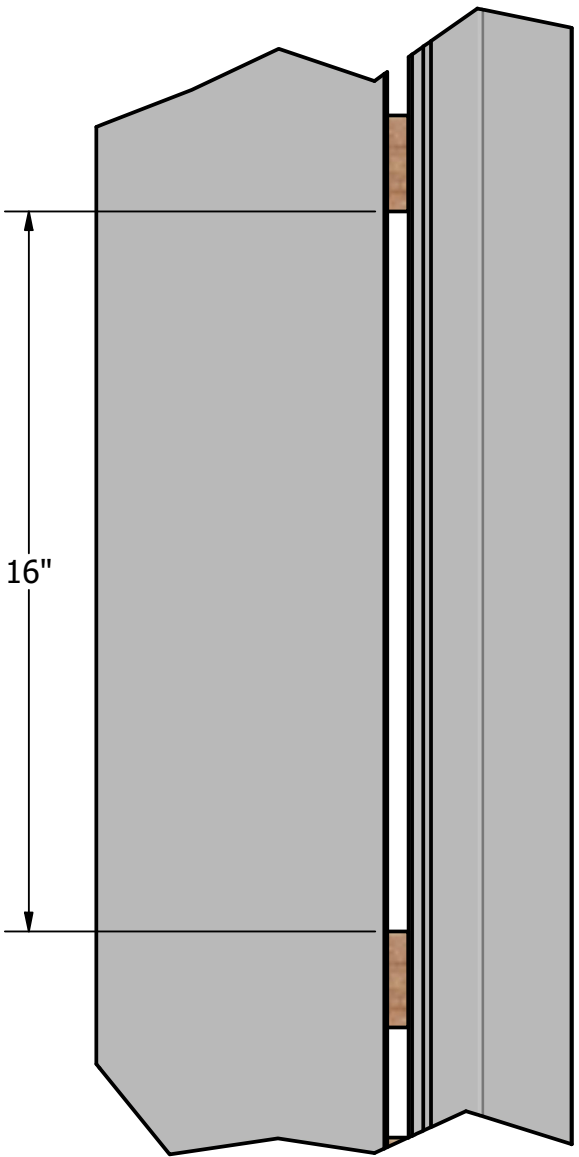
SHIM LOCATION FROM CORNER



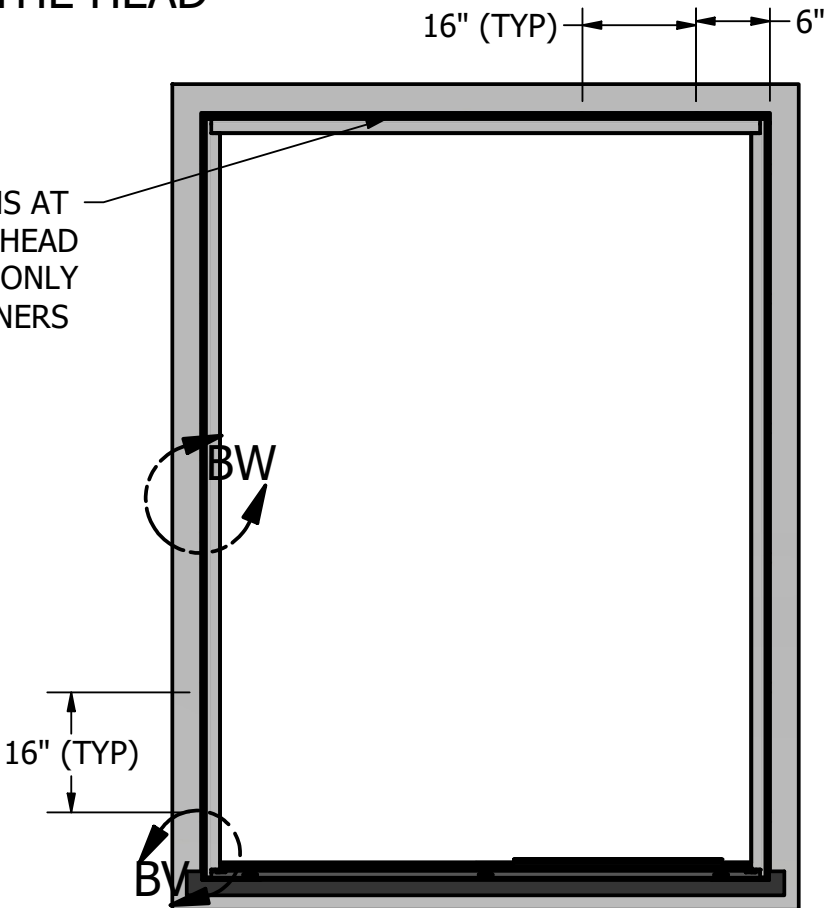
KEEPER SHIM LOCATION



JAMB



NO SHIMS AT  
THE HEAD  
ONLY  
FASTENERS



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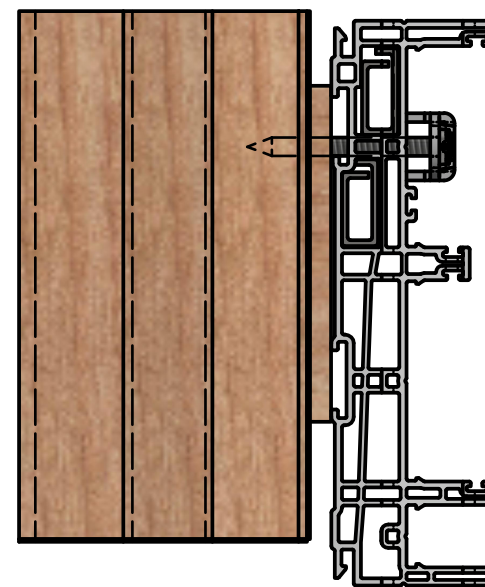
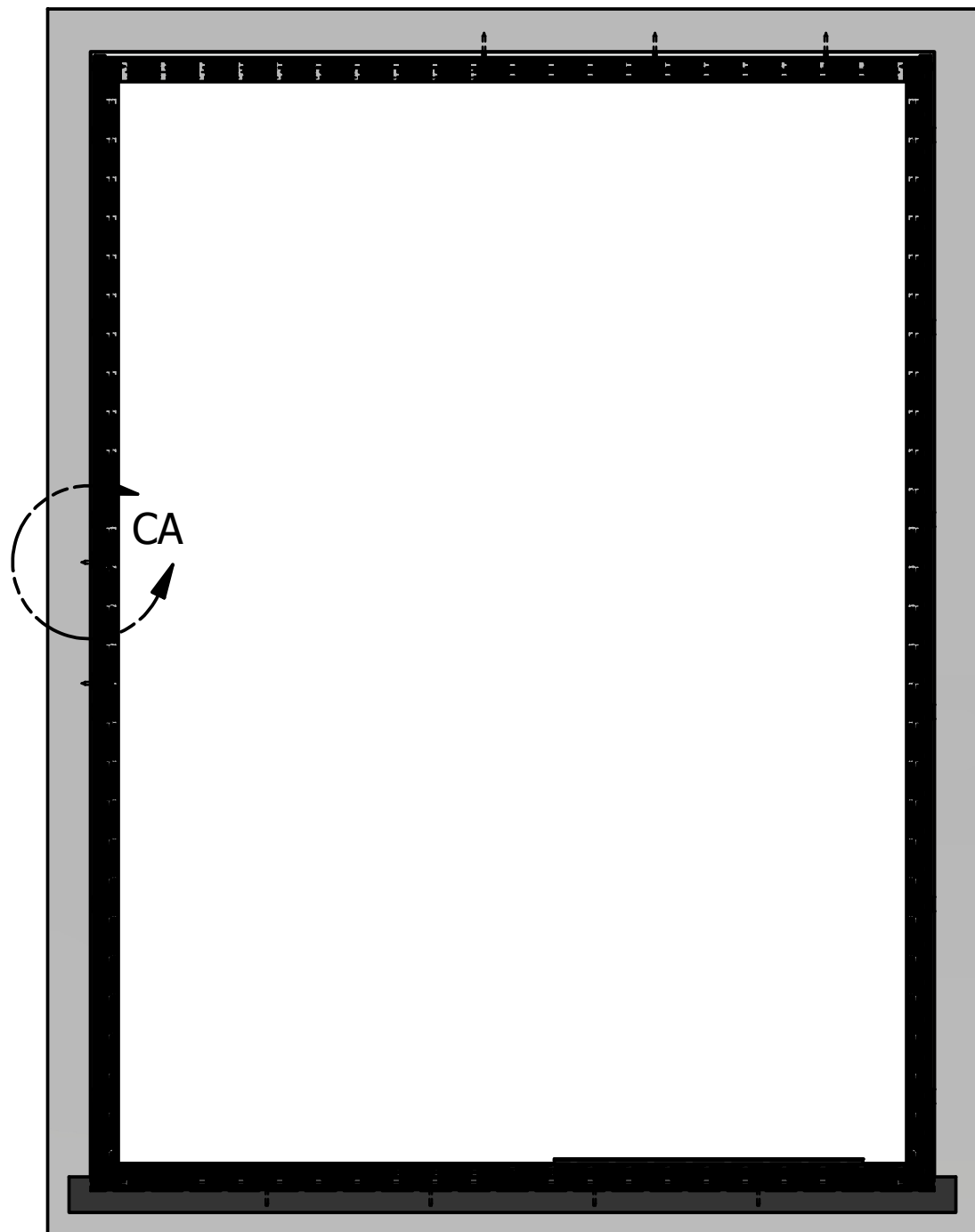
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TOOLS REQUIRED:  
SHIMS, SEALANT, POWER DRILL,  
SCREWS, LEVEL

## METHOD 1: ANCHORING THROUGH THE FRAME

NOTE: REMOVE POCKET COVERS AS NEEDED

7.) INSTALL SCREWS THROUGH THE FRAME WHERE POCKET COVERS WILL BE INSTALLED AT EACH SHIM LOCATION, BEING CAREFUL NOT TO BOW FRAME. USE #8 X 2-1/2" SCREWS. SCREW LENGTH IS DEPENDENT UPON FRAME STRUCTURE; SCREW LENGTH MUST BE OF SUFFICIENT LENGTH TO SECURE UNIT IN OPENING (MINIMUM OF 1" PENETRATION THROUGH THE JAMB IS REQUIRED)



8.) INSTALL SCREWS THROUGH THE HEAD JAMB INTO THROUGH OPENING AT 16" INTERVALS

9.) REMOVE KEEPER SCREWS AND REPLACE THEM WITH SUPPLIED SCREWS. SCREWS SHOULD RUN THROUGH THE INSTALLED SHIMS INTO THE ROUGH OPENING. IMPORTANT: WHEN ANCHORING UNIT THROUGH JAMB, SEAL SCREW HEADS WITH SILICONE.

TOOL REQUIRED:  
SEALANT

10.) APPLY SEALANT TO THE SUPPORT BLOCK AS SHOWN IN THE DIAGRAM,  
DO NOT BLOCK DRAIN HOLES.

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SILL ASSEMBLY

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INTERIOR

SEALANT

DRAIN HOLES

EXTERIOR

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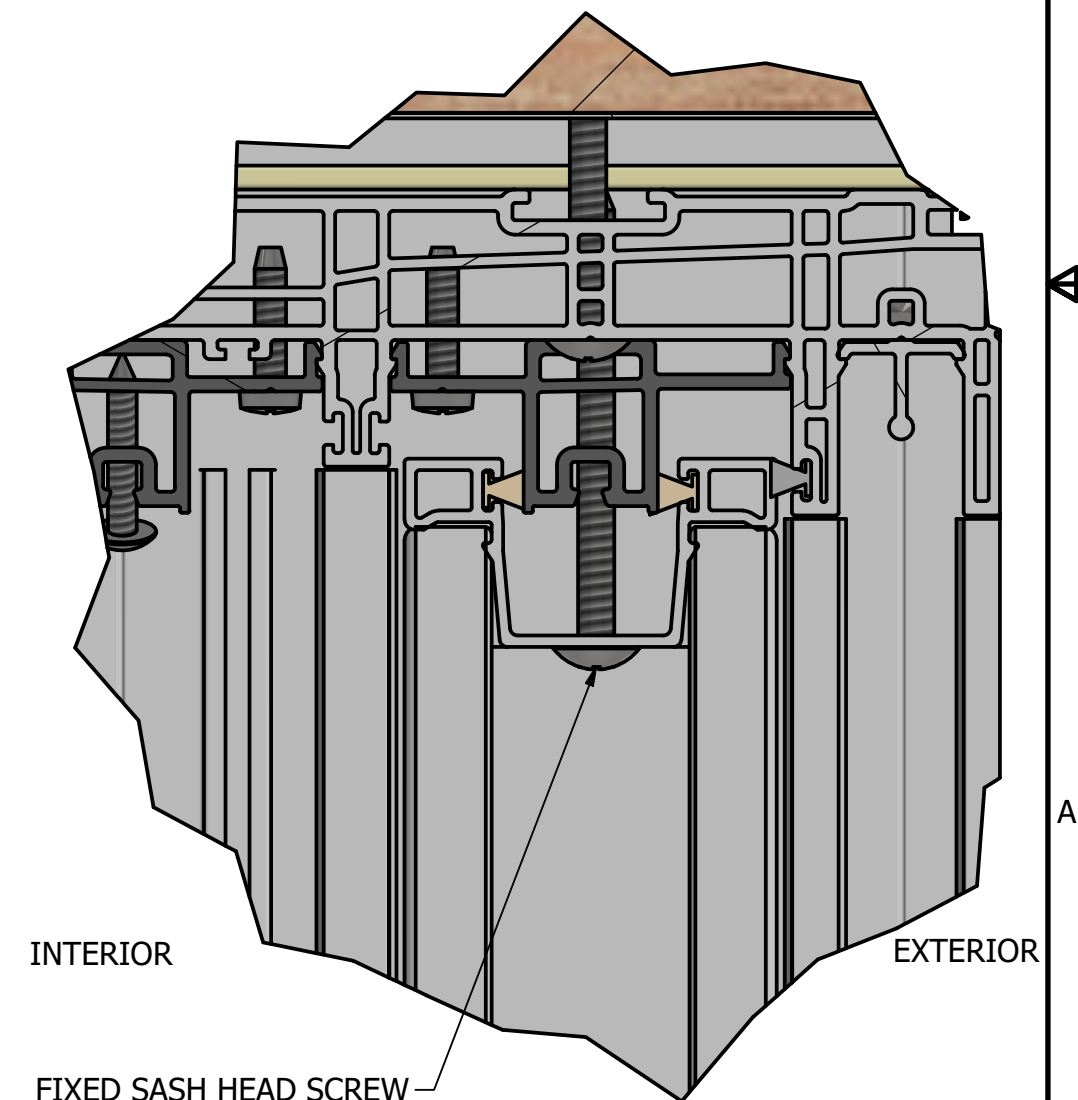
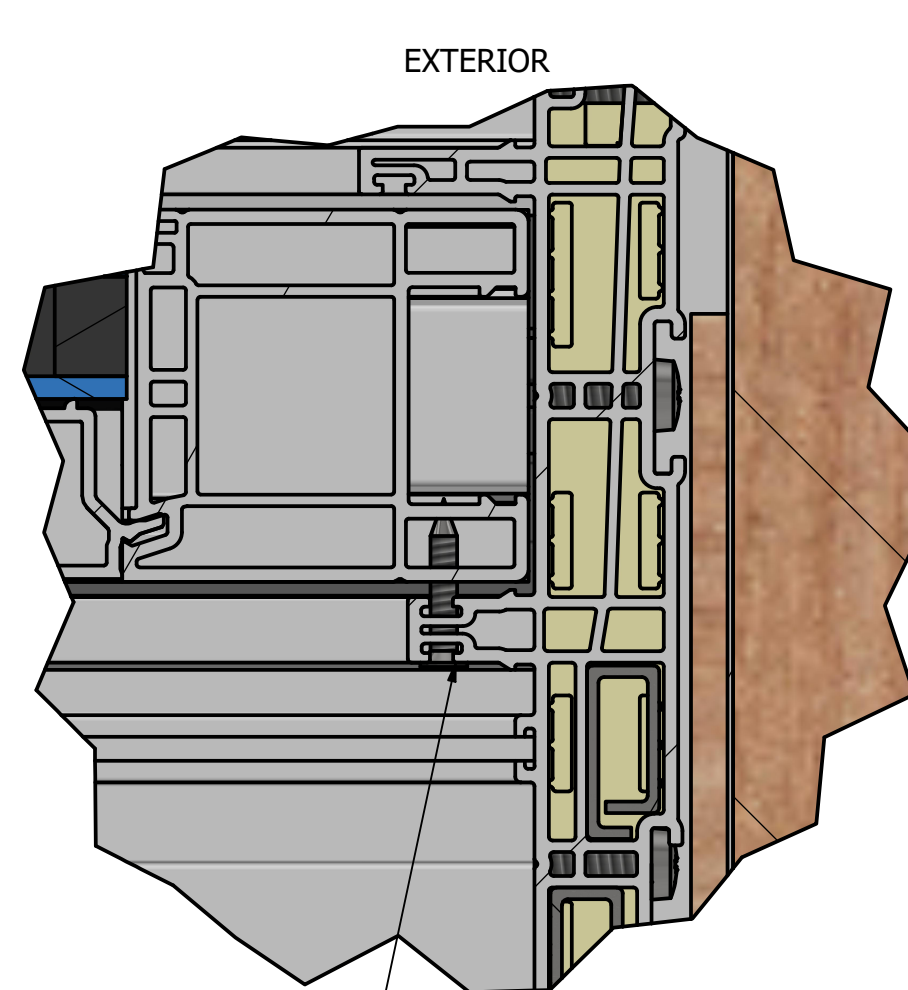
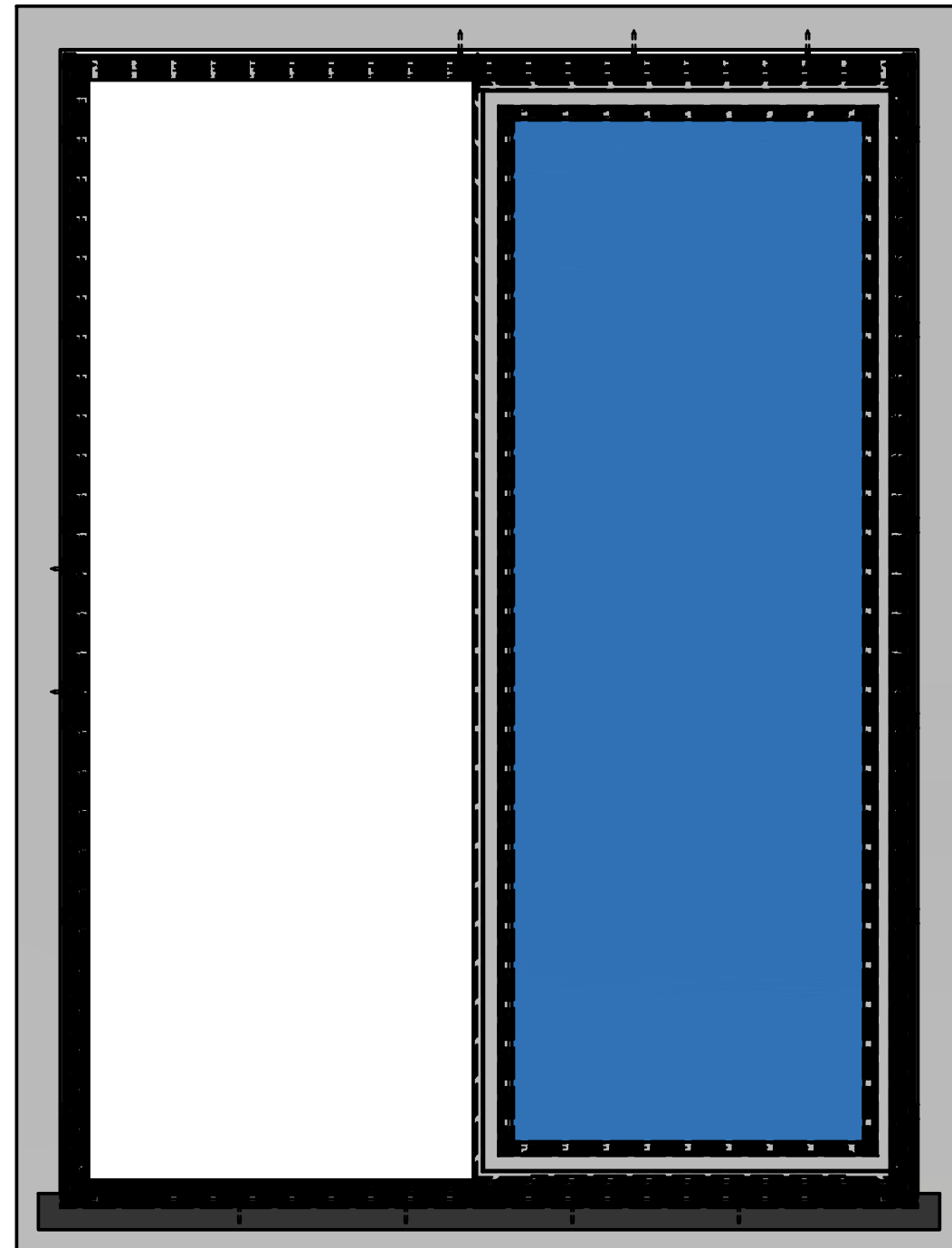


TOOL REQUIRED:  
POWER DRILL, SASH  
SCREWS

11.) SLIDE THE FIXED SASH OVER THE SLOPPED SILL COVER AND OVER THE  
SUPPORT BLOCK INTO THE FIXED JAMB ASSEMBLY POCKET

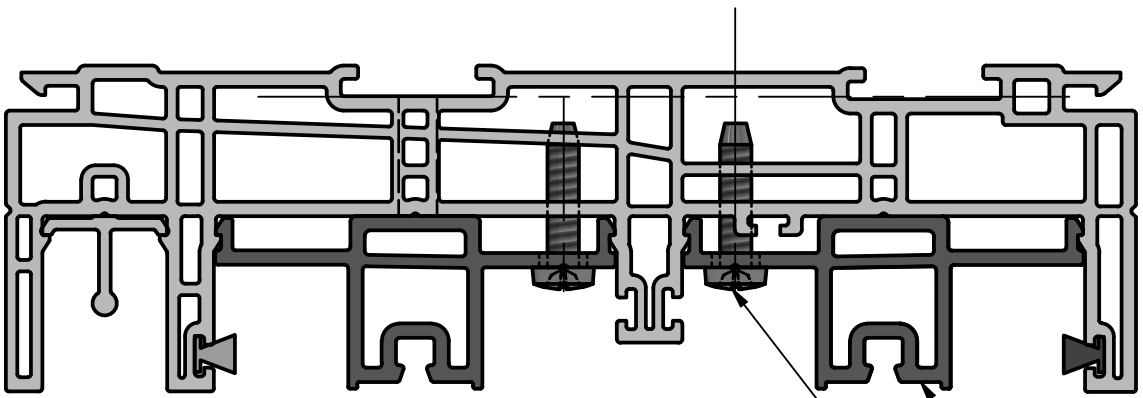
12.) ANCHOR THE SASH TO THE FIXED JAMB ASSEMBLY USING #6 x 3/4" FH  
SCREWS PROVIDED THROUGH THE OPERATING CHANNEL ON THE FIXED  
JAMB ASSEMBLY

13.) ANCHOR THE HEAD THROUGH THE W/S ADAPTER USING SCREW  
PROVIDED



TOOL REQUIRED:  
PRY BAR, POWER DRILL, 1/2"X 16" WOOD BLOCK, Mallet

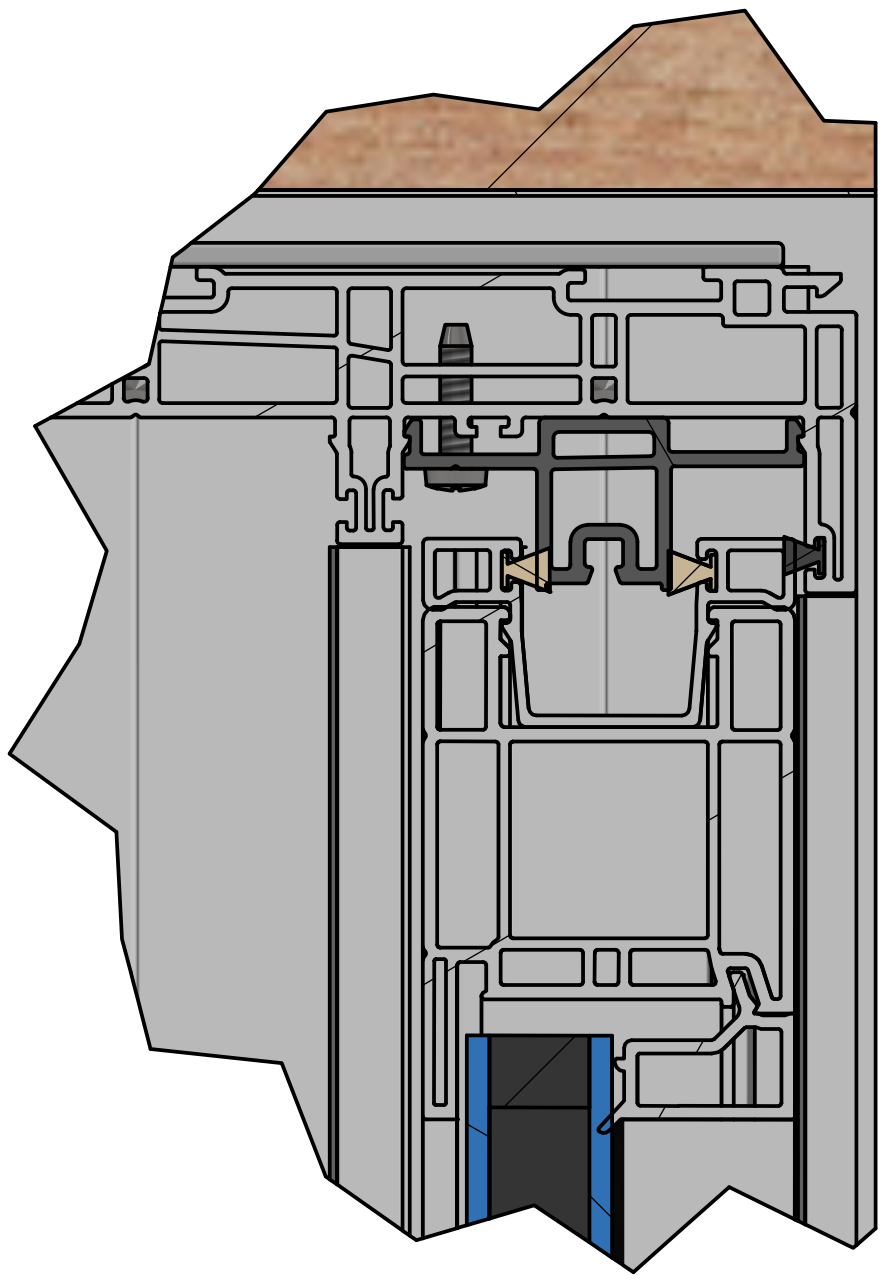
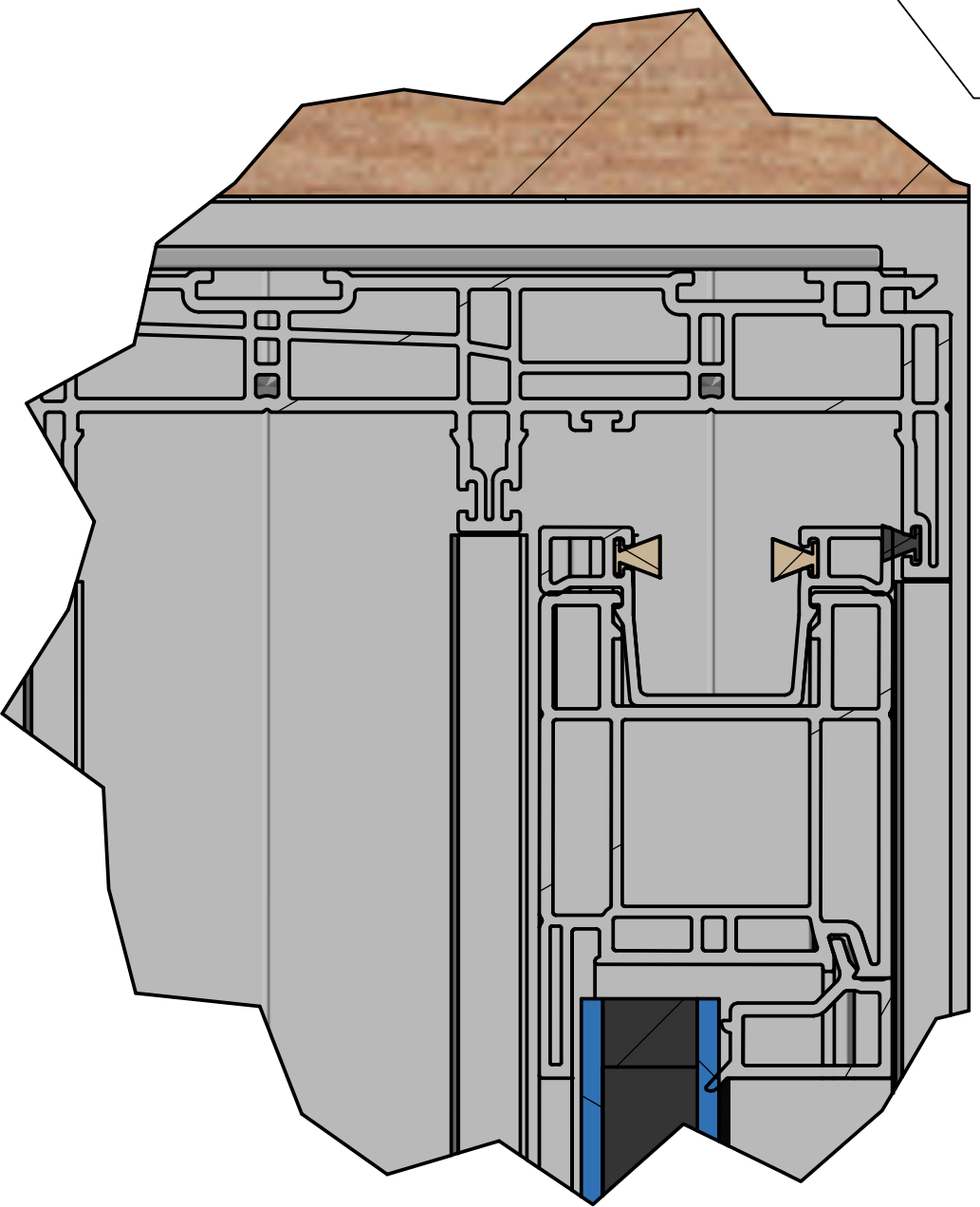
HEAD  
ASSEMBLY



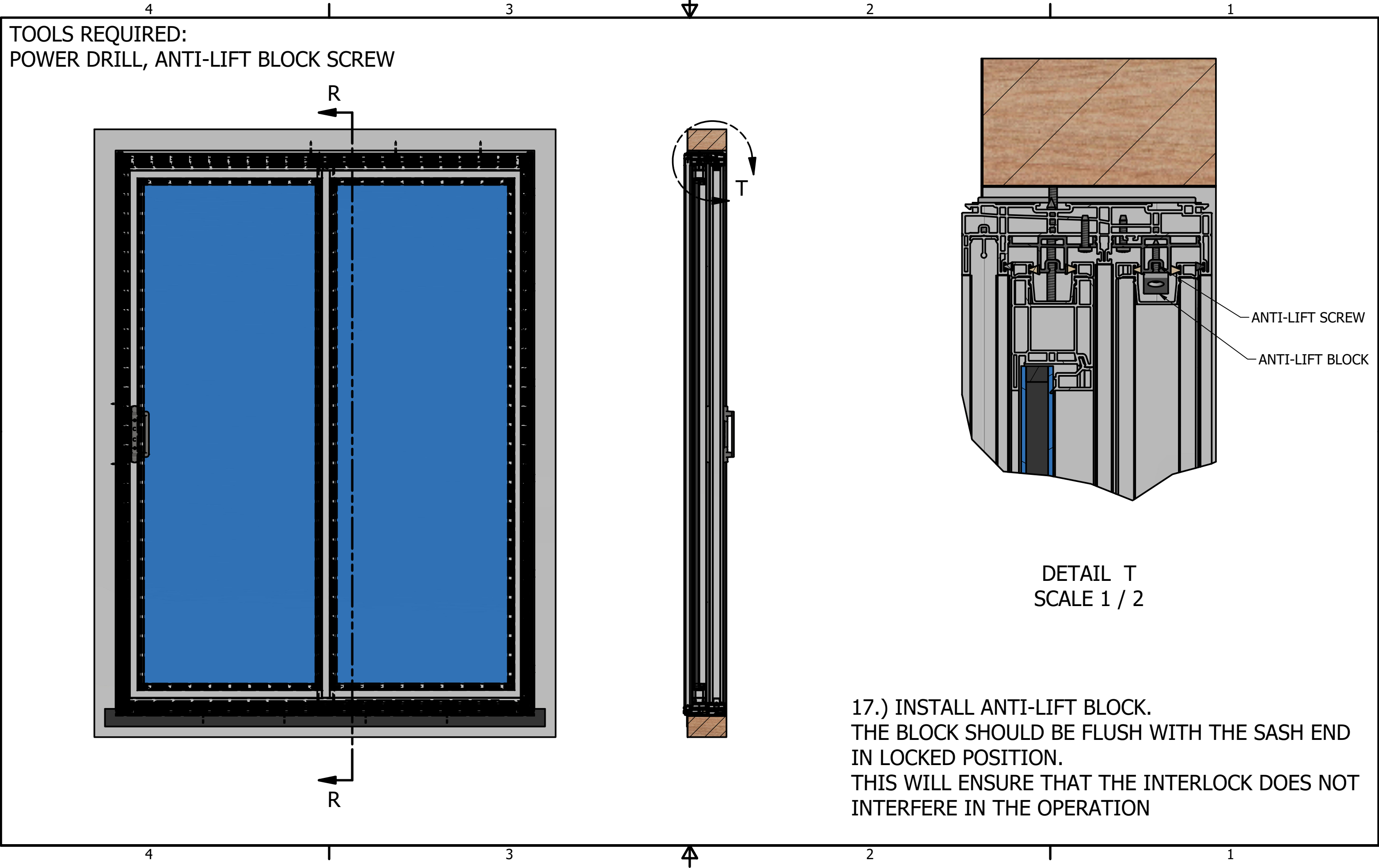
REMOVABLE TRACK

DO NOT THROW

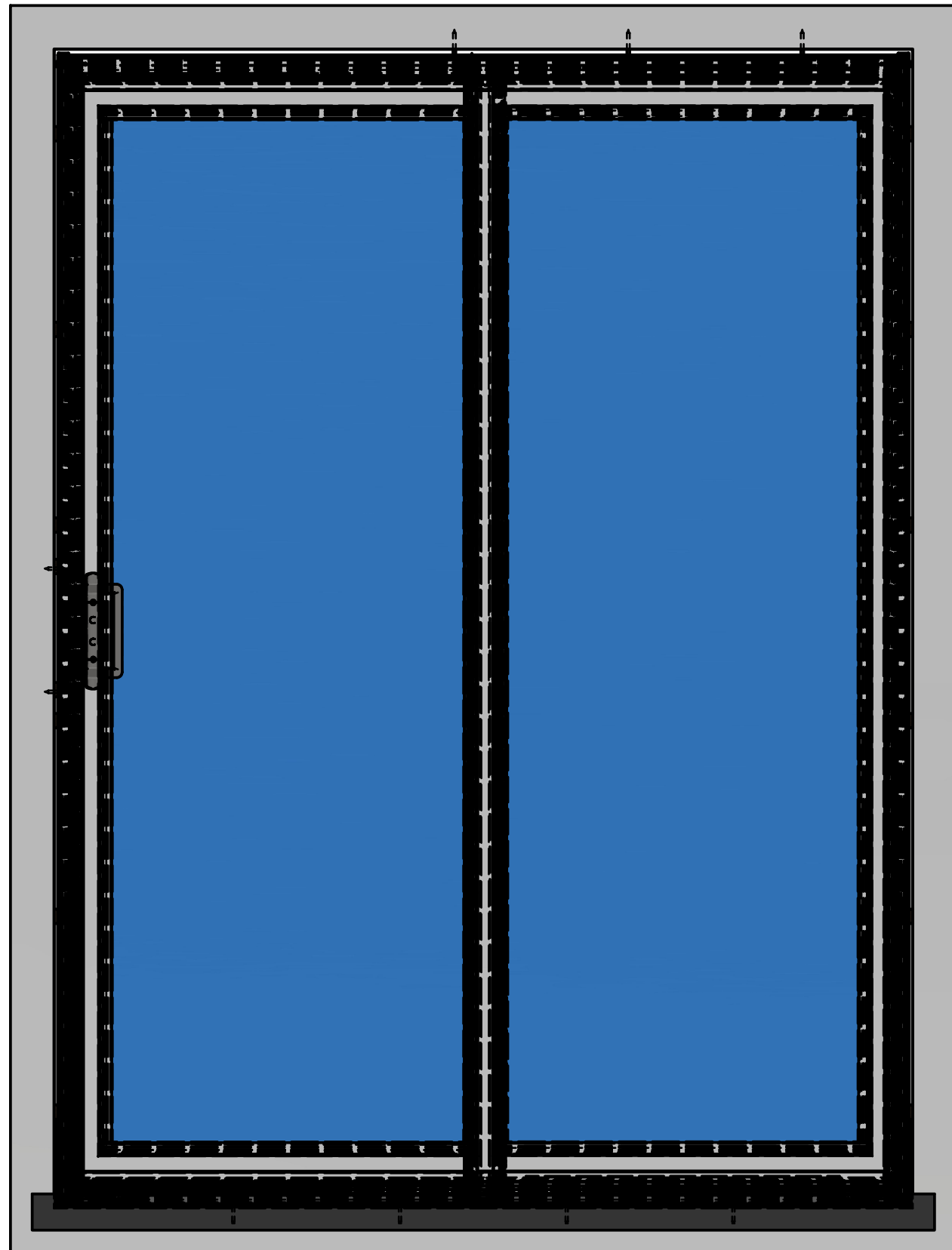
- 14.) REMOVE THE HEAD TRACKS IN THE OPERATING CHANNEL (DO NOT DISCARD THE SCREWS)
- 15.) SLIDE THE OPERATING PANEL FROM THE INTERIOR INTO THE FRAME CHANNEL. ENSURE ROLLERS ARE CONTACTING SILL TRACK
- 16.) RE-INSERT THE HEAD TRACK INTO THE HEAD CHANNEL AND SCREW THEM IN. SLIDE THE SASH AS REQUIRED TO FASTEN THE SCREWS BACK







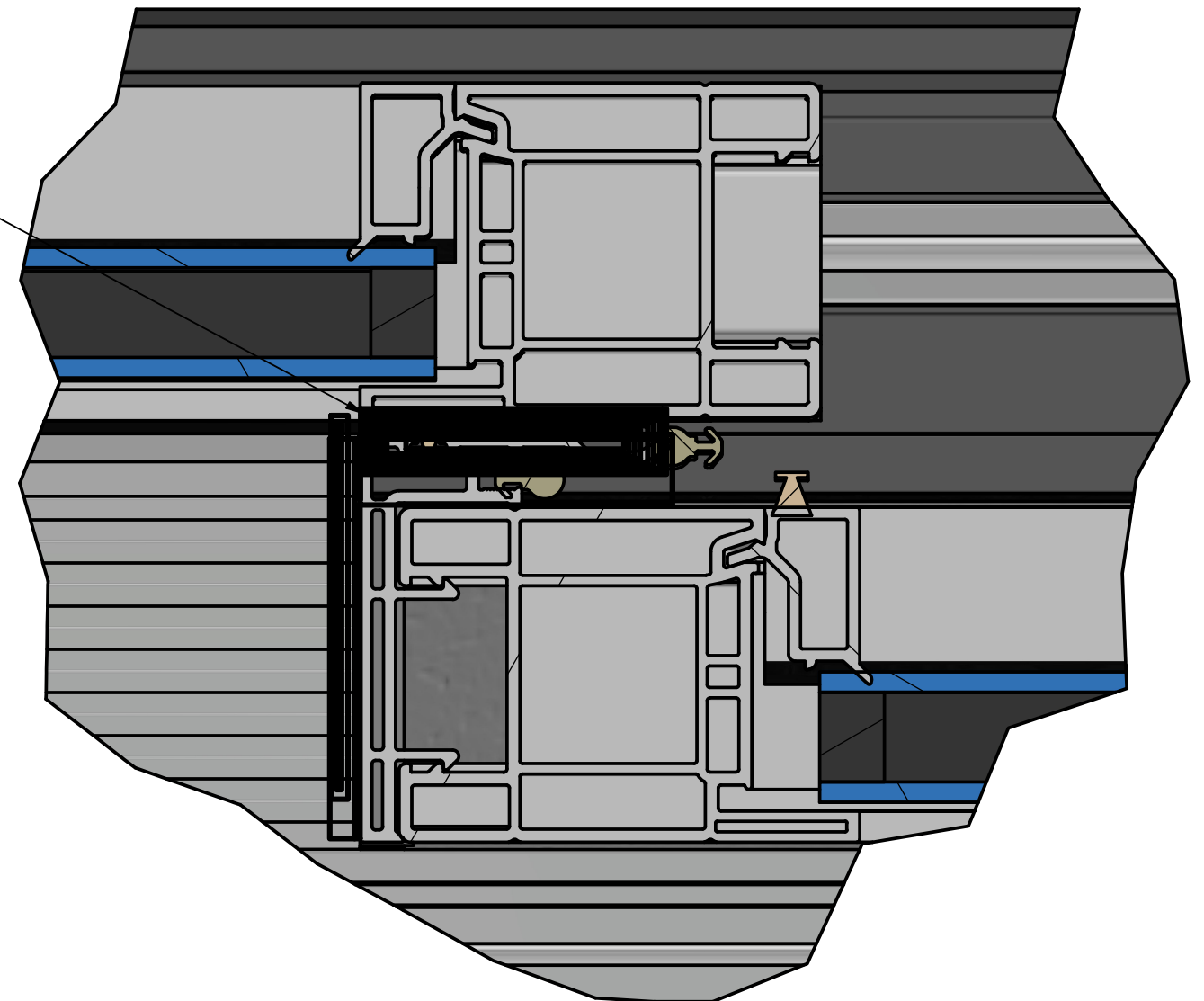
TOOLS REQUIRED:  
SEALANT



18.) SLIDE OPERATING PANEL INTO A CLOSED POSITION AND  
INSTALL FIXED SASH INTERLOCK.  
SEAL THE BOTTOM OF THE INTERLOCK TO THE SILL TOWER  
WITH HIGH QUALITY SEALANT

INSTALL FIXED JAMB POCKET COVER

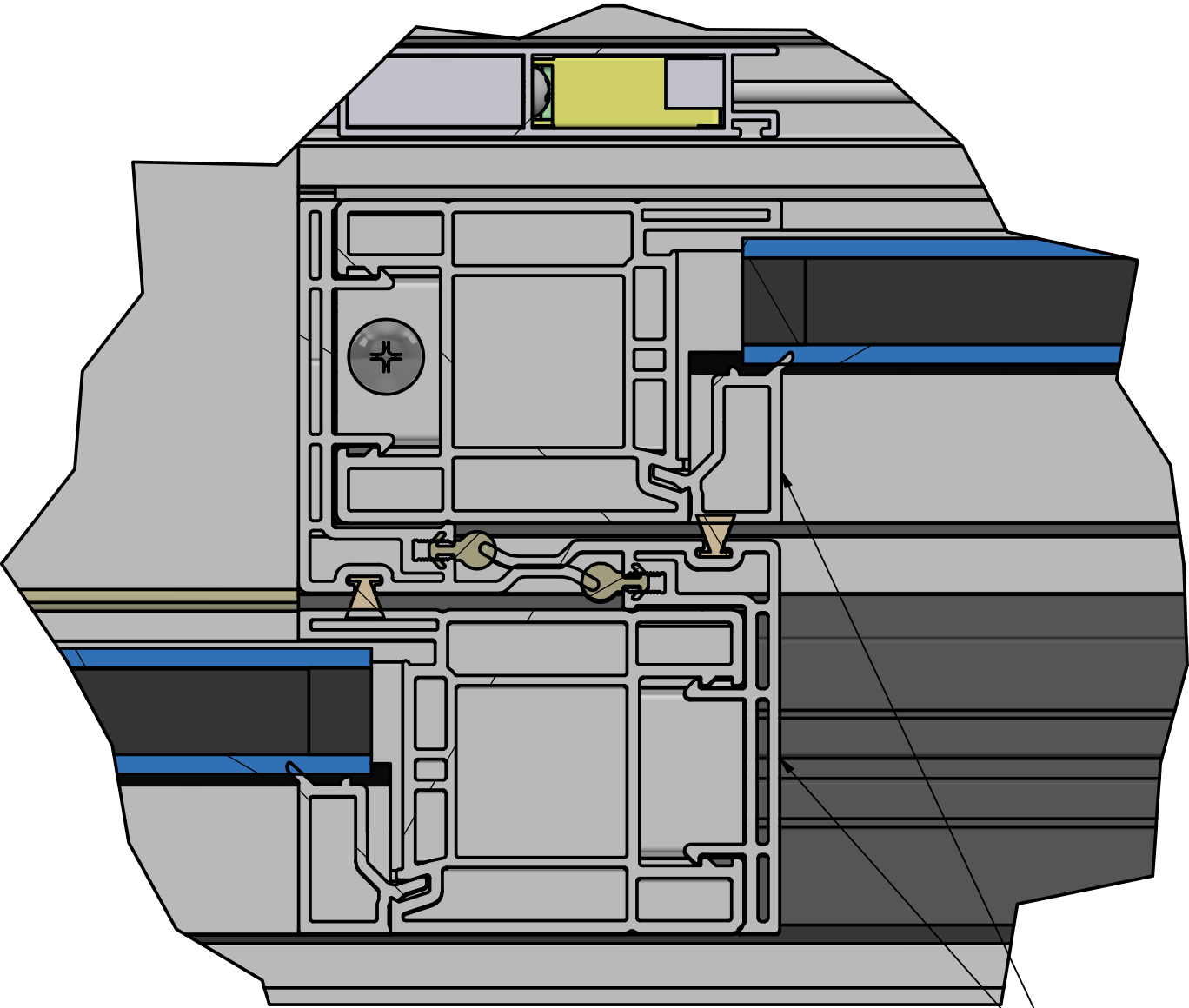
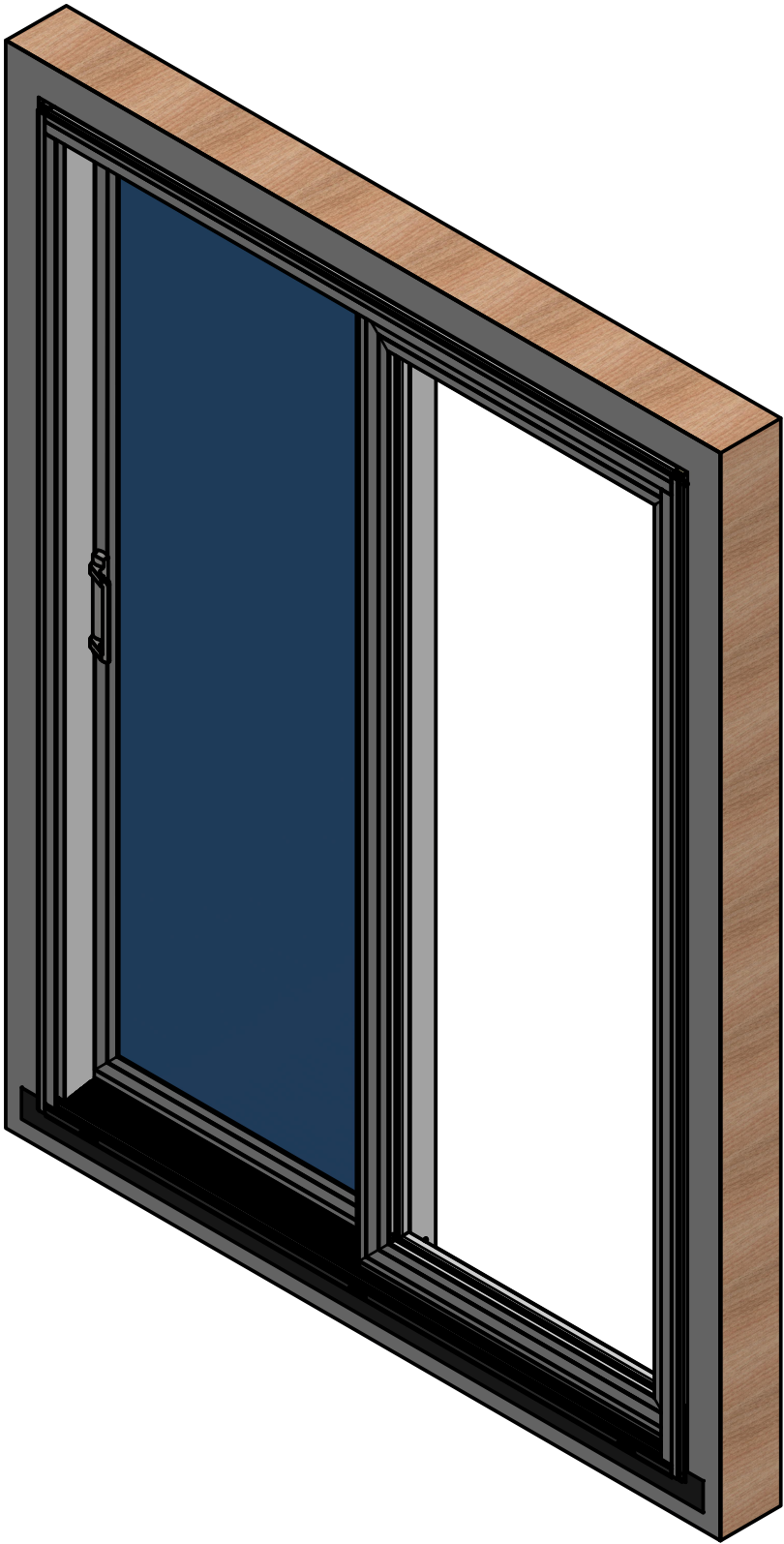
SEALANT  
LOCATION



TOOLS REQUIRED:  
MALLET

- 19.) INSTALL OPERATING SASH INTERLOCK
- 20.) INSTALL OPERATING JAMB POCKET COVERS

CHECK ALIGNMENT BETWEEN THE TWO SASHES INTERLOCK  
SHOULD BE FLUSH WITH GLASS STOP AS SHOWN BELOW



DETAIL BD  
SCALE 1 : 1  
FLUSH

TOOLS REQUIRED:  
Mallet, SILICONE

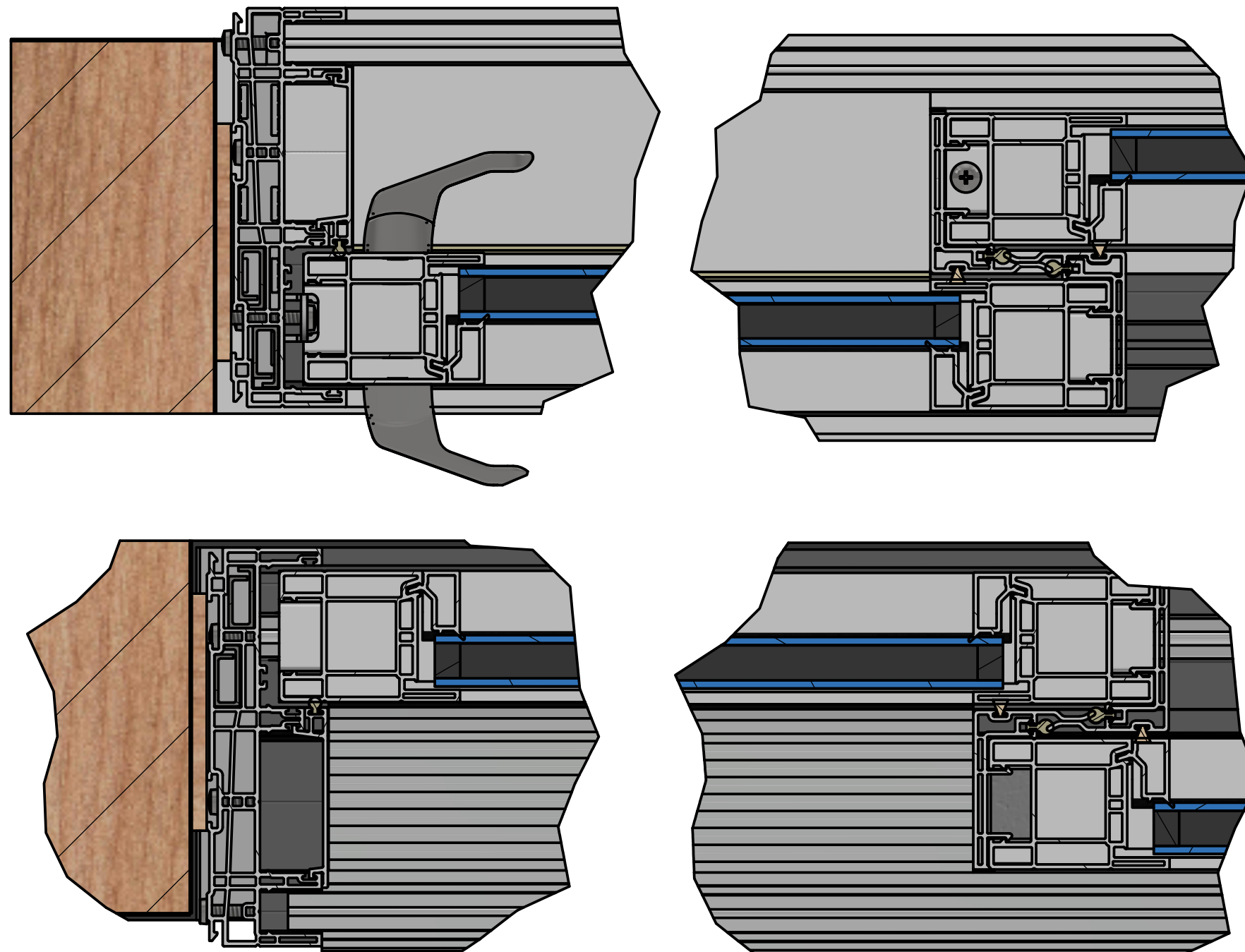
- 21.) INSTALL HEAD JAMB POCKET COVER AND SEAL EACH END  
22.) FROM THE EXTERIOR SEAL THE POCKET COVER TO THE SLOPPED SILL COVER ENDS

OP SASH CORNER 3

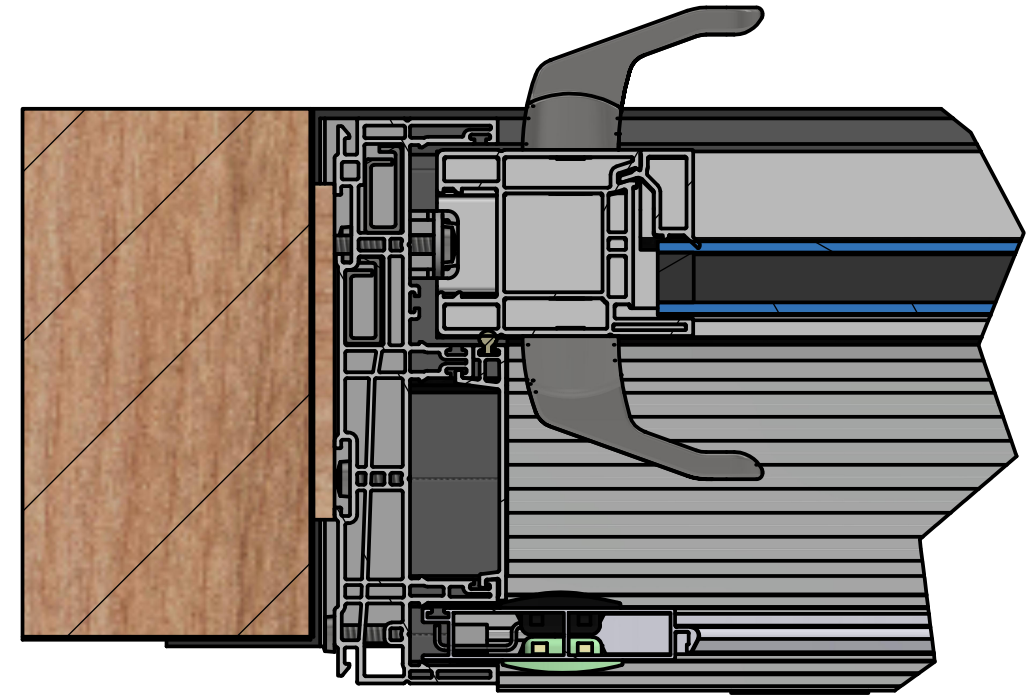
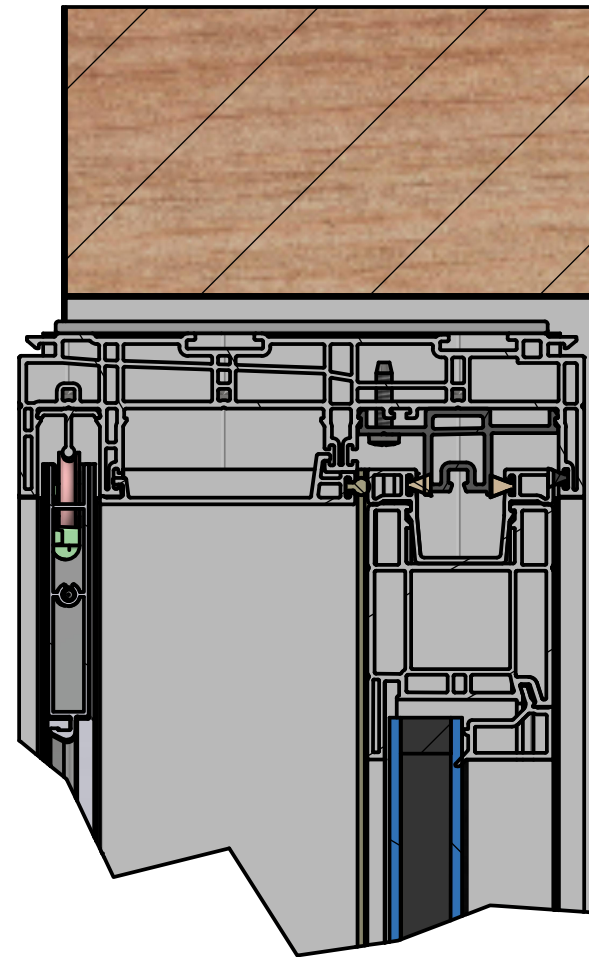
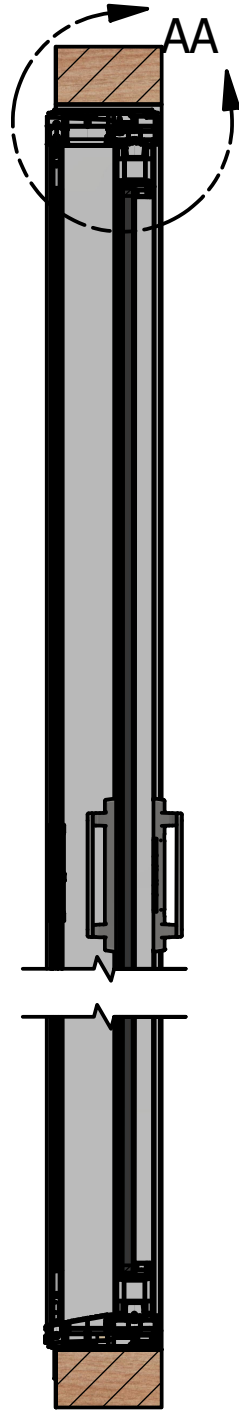
OP SASH CORNER 4

SASH CORNER 1

OP SASH CORNER 2



TOOLS REQUIRED:  
BACKER ROD, SPRAY FOAM INSULATION  
UTILITY KNIFE



23.) FROM THE EXTERIOR INSTALL BACKER RODS AROUND THE DOOR JAMBS AND HEAD. USE THE APPROPRIATE SIZE ENSURING AT LEAST 25% BACKER ROD COMPRESSION.

24.) INSULATE BETWEEN THE DOOR FRAME AND THE ROUGH OPENING, ENSURING ALL VOIDS ARE FILLED. CAUTION MUST BE EXERCISED NOT TO OVER PACK THE INSULATION CAUSING UNIT FRAME TO DISTORT.

25.) SEAL AND TRIM DOOR INSIDE AND OUT TO SUIT APPLICATION.

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SECTION AL-AL  
SCALE 1 / 12

26.)INSTALL AND ADJUST SCREEN DOOR

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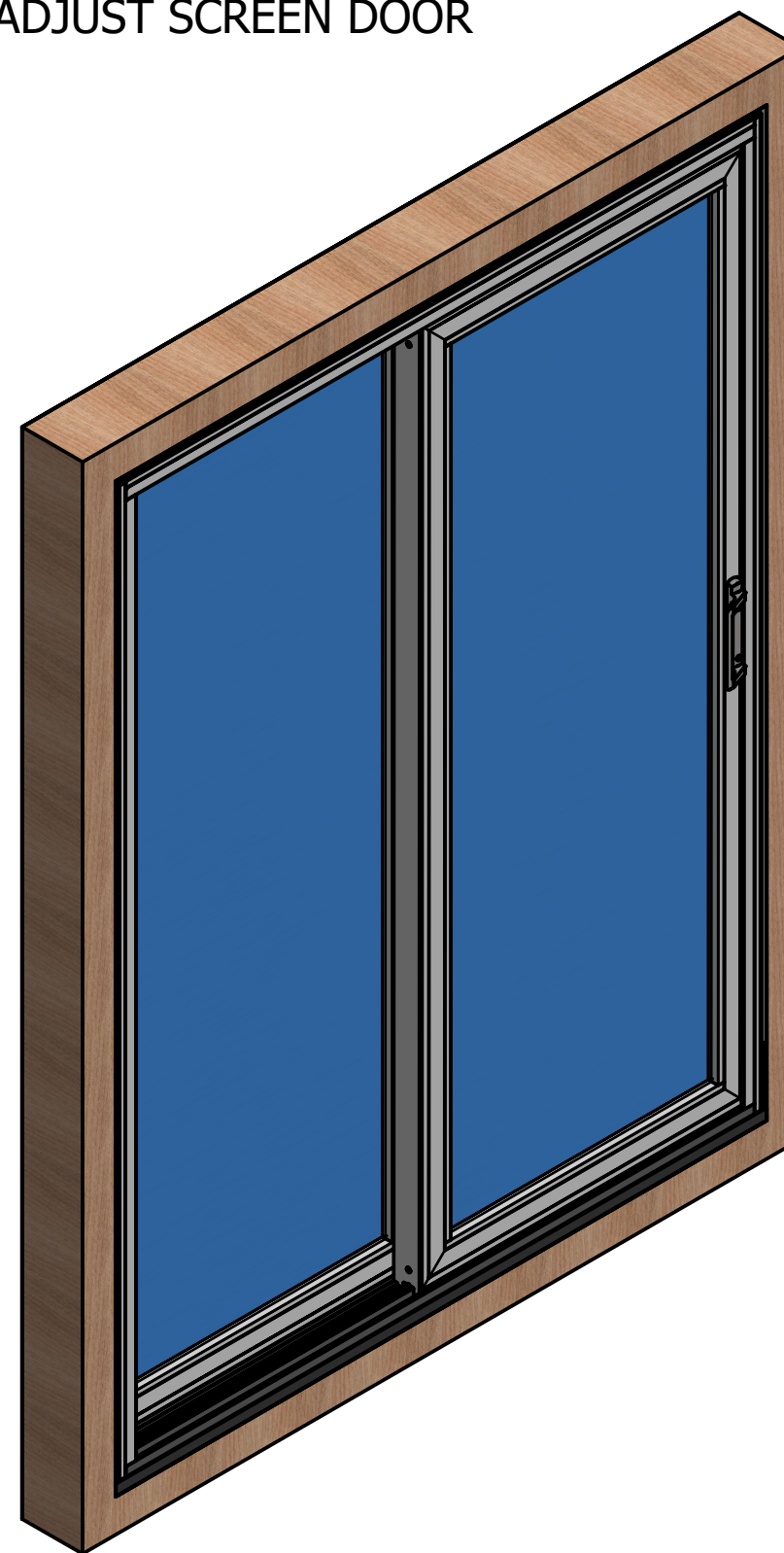
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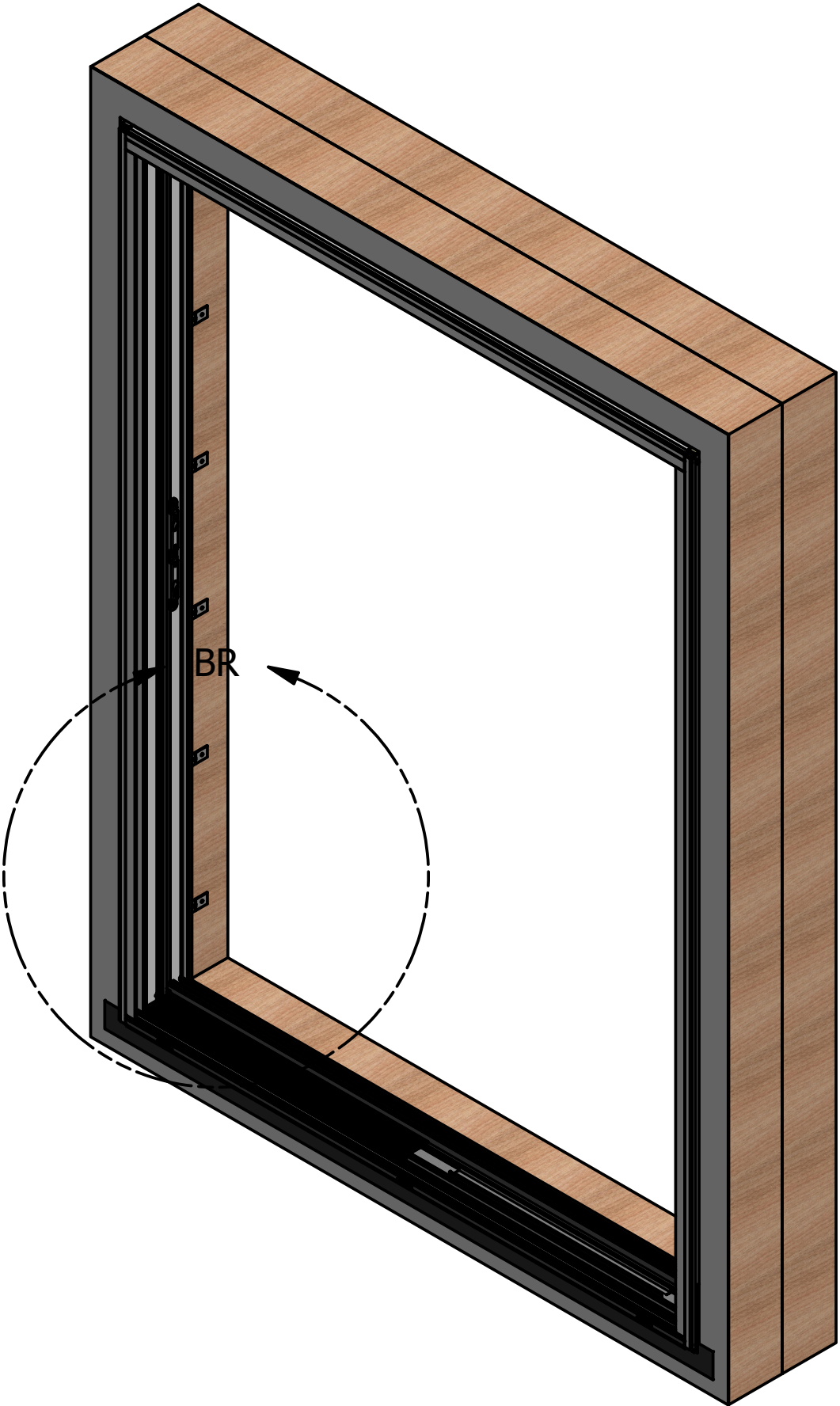
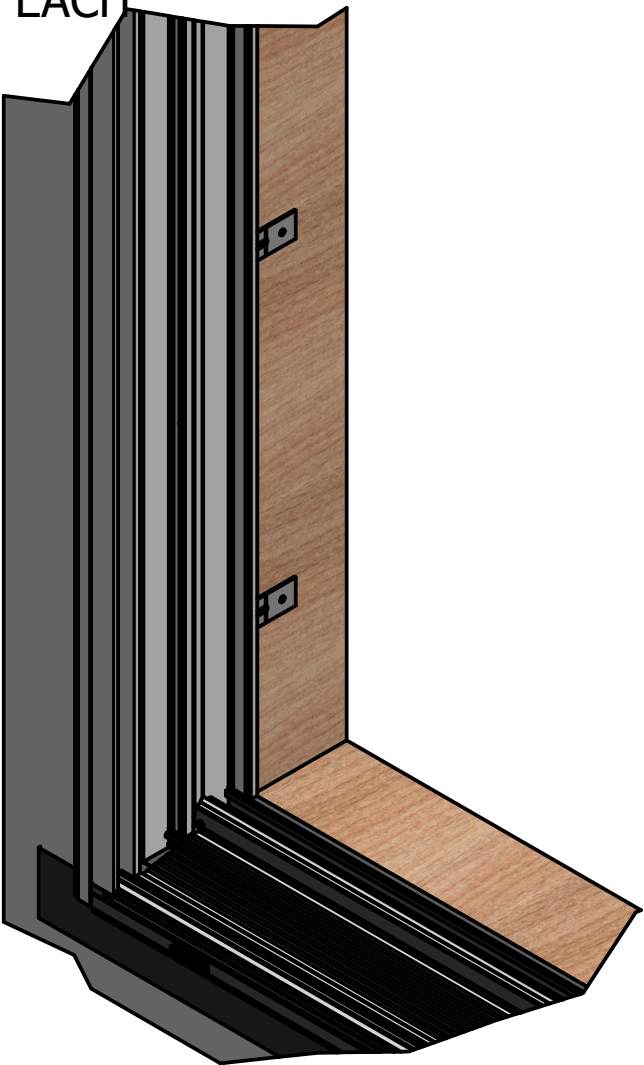
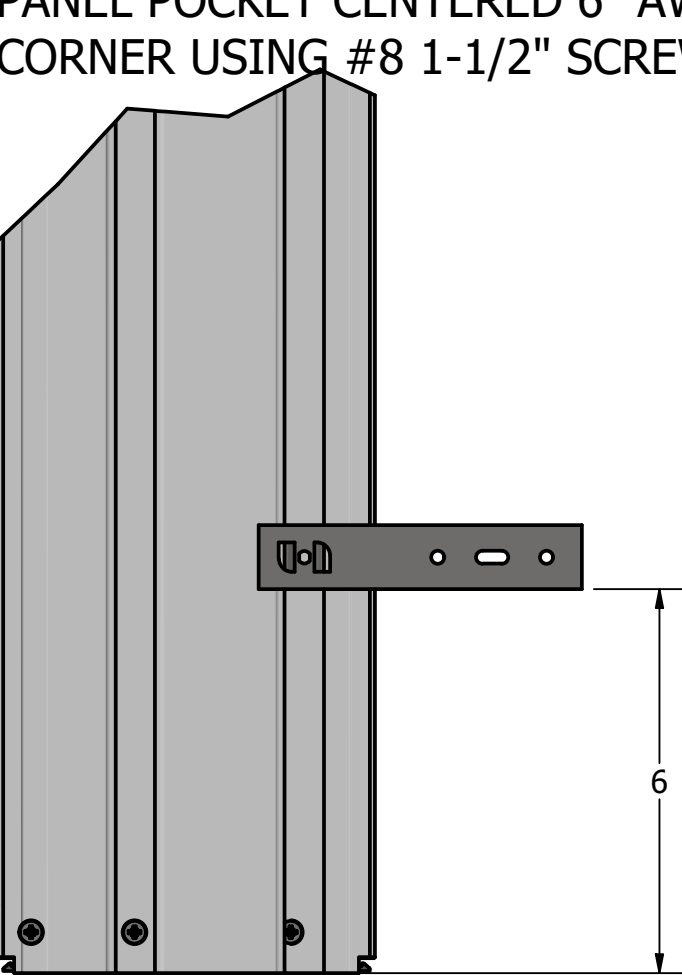


METHOD 2: USING INSTALLATION CLIPS

5.)  
A) PLACE THE GALVANIZED STEEL ANCHOR CLIPS 6" IN FROM EACH CORNER AND THEN AT APPROXIMATELY 16" INTERVALS AT THE JAMBS AND AT THE HEAD

B.) CENTER THE FRAME IN OPENING SO THERE IS EQUAL SPACE BETWEEN THE FRAME AND THE ROUGH OPENING.  
NOTE: ENSURE SILL ANCHOR IS SITTING IN THE PROPER LOCATION.

C.) ANCHOR THE DOOR AT THE HEAD IN THE FIXED PANEL POCKET CENTERED 6" AWAY FROM EACH CORNER USING #8 1-1/2" SCREWS



## Method 2: using the installation clips

### Tool Required:

Shims, Tape Measure, Sealant,  
Power Drill, Screws

6.) SHIM SIDE JAMB BEHIND EACH CLIP LOCATION; SHIMS SHOULD BE FIRM BUT NOT TIGHT ENOUGH TO CAUSE THE JAMBS TO BOW. CHECK THAT THE FRAME IS LEVEL, PLUMB, AND SQUARE; ADJUST SHIMS IF NECESSARY.

NOTE: ADDITIONAL SHIMS ARE REQUIRED AT SINGLE POINT AND MULTIPOINT KEEPER SCREW LOCATIONS.

DO NOT SHIM THE HEAD

7.) INSTALL SCREWS THROUGH THE HOLES ON THE INSTALLATION CLIPS AT EACH SHIM/ CLIP LOCATION LOCATION BEING CAREFUL NOT TO BOW FRAME. SUGGEST USING #8 X 1-1/2" SCREWS. SCREW LENGTH IS DEPENDENT UPON FRAME STRUCTURE, SCREW LENGTH MUST BE OF SUFFICIENT LENGTH TO SECURELY ANCHOR UNIT IN OPENING. (MINIMUM OF 1" PENETRATION THROUGH THE JAMB IS REQUIRED)

8.) REMOVE KEEPER SCREWS AND REPLACE THEM WITH SUPPLIED SCREWS. SCREWS SHOULD RUN THROUGH THE INSTALLED SHIMS INTO THE ROUGH OPENING. IMPORTANT: WHEN ANCHORING UNIT THROUGH JAMB, SEAL SCREW HEADS WITH SILICONE.

