

Dec-08/2022

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NORTH STAR WINDOWS AND DOORS

INSTALLATION & ASSEMBLY

SASHES SHIPPED SEPARATELY



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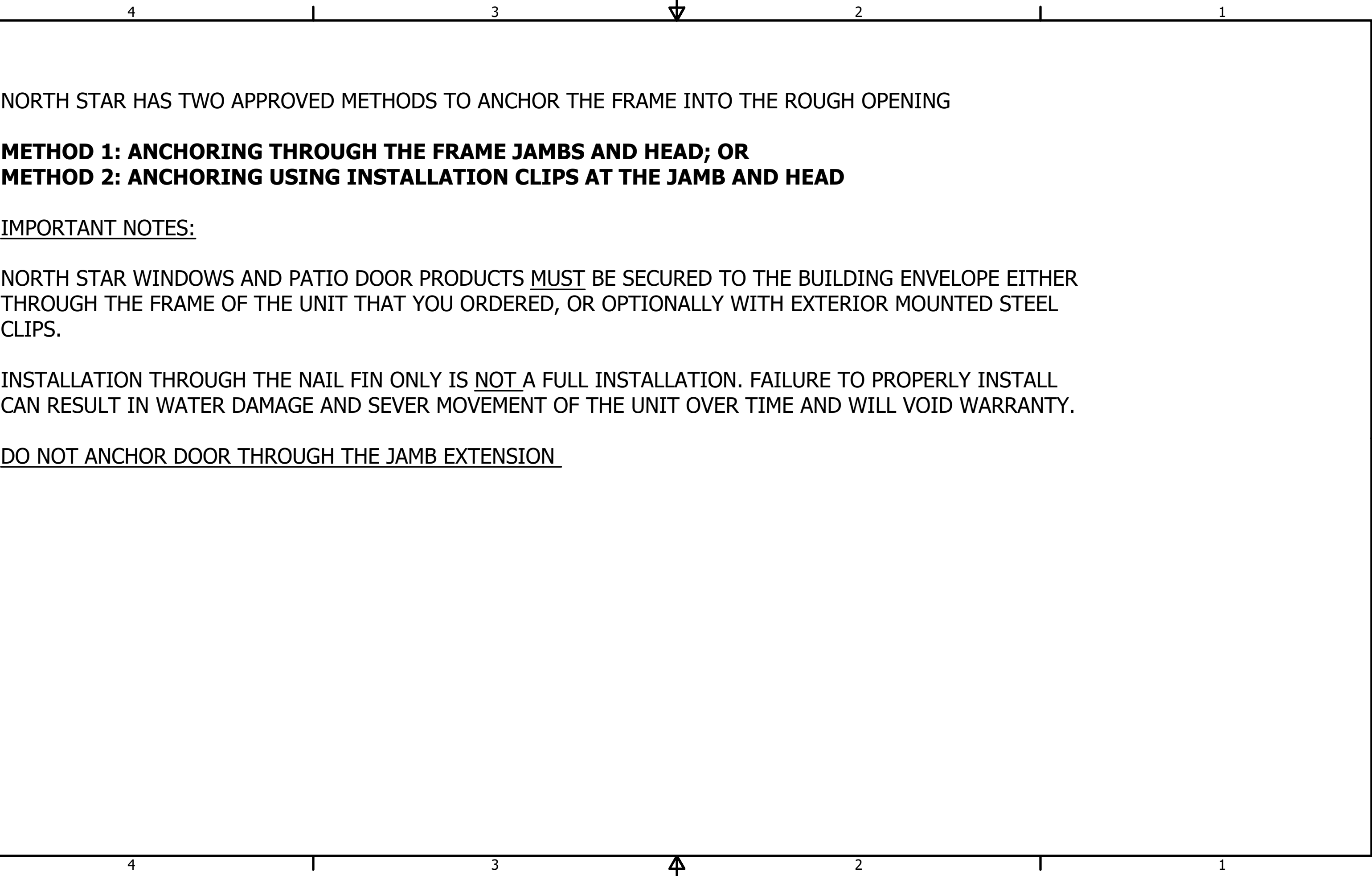
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NORTH STAR HAS TWO APPROVED METHODS TO ANCHOR THE FRAME INTO THE ROUGH OPENING

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

IMPORTANT NOTES:

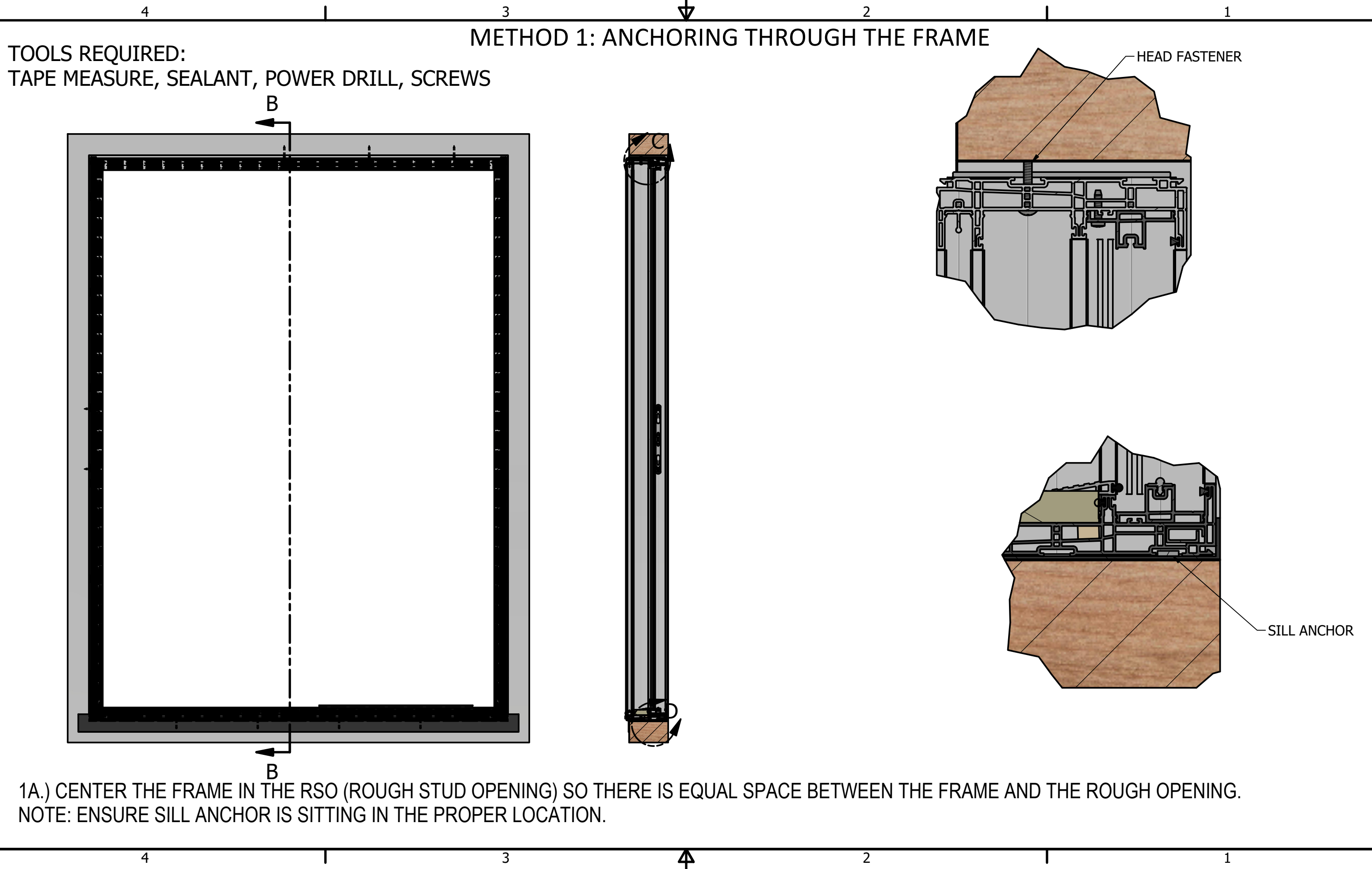
NORTH STAR WINDOWS AND PATIO DOOR PRODUCTS MUST BE SECURED TO THE BUILDING ENVELOPE EITHER THROUGH THE FRAME OF THE UNIT THAT YOU ORDERED, OR OPTIONALLY WITH EXTERIOR MOUNTED STEEL CLIPS.

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

## REQUIRED TOOL LIST:

1. SAFTEY GLASSES
2. SHIMS
3. TAPE MESURE
4. LEVEL
5. POWER DRILL & BITS
6. FOAM DISPENSER
7. LOW-PRESSURE THERMAL FOAM INSULATION
8. PRY BAR
9. CHISEL
10. UTILITY KNIFE
11. SHEET METAL SCISSORS (OPTIONAL)
12. FLASHING TAPE
13. 1/2" X 16" WOOD BLOCK
14. SCREWDRIVER
15. Mallet
16. INSTALLATION SCREWS
17. BACKER ROD
18. EXTERIOR GRADE SEALANT



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

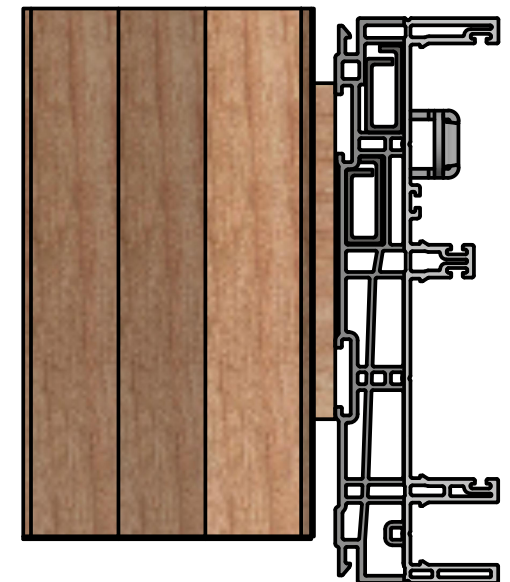
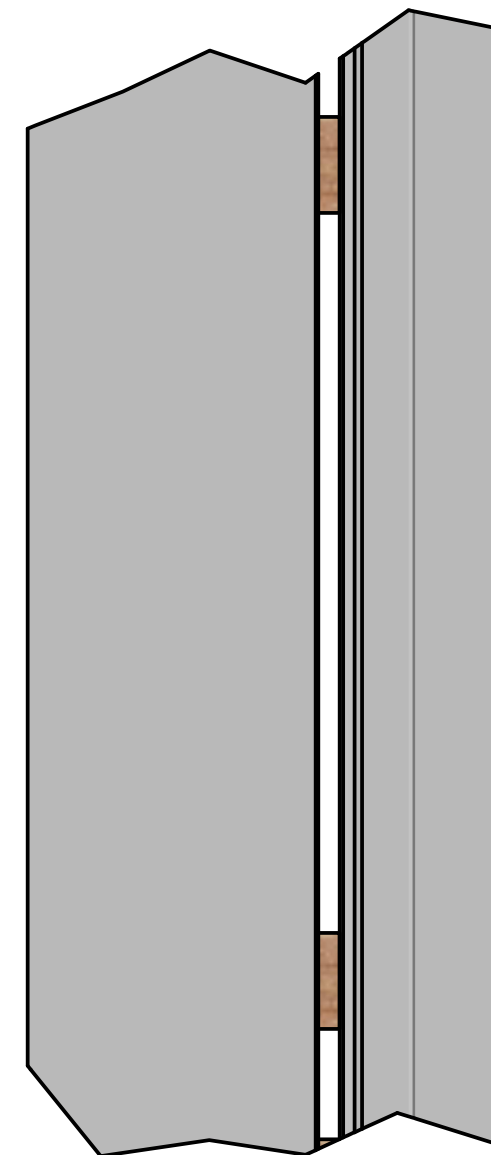
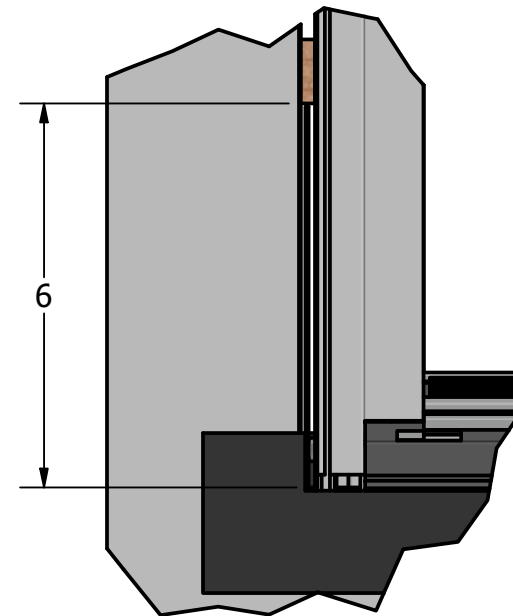
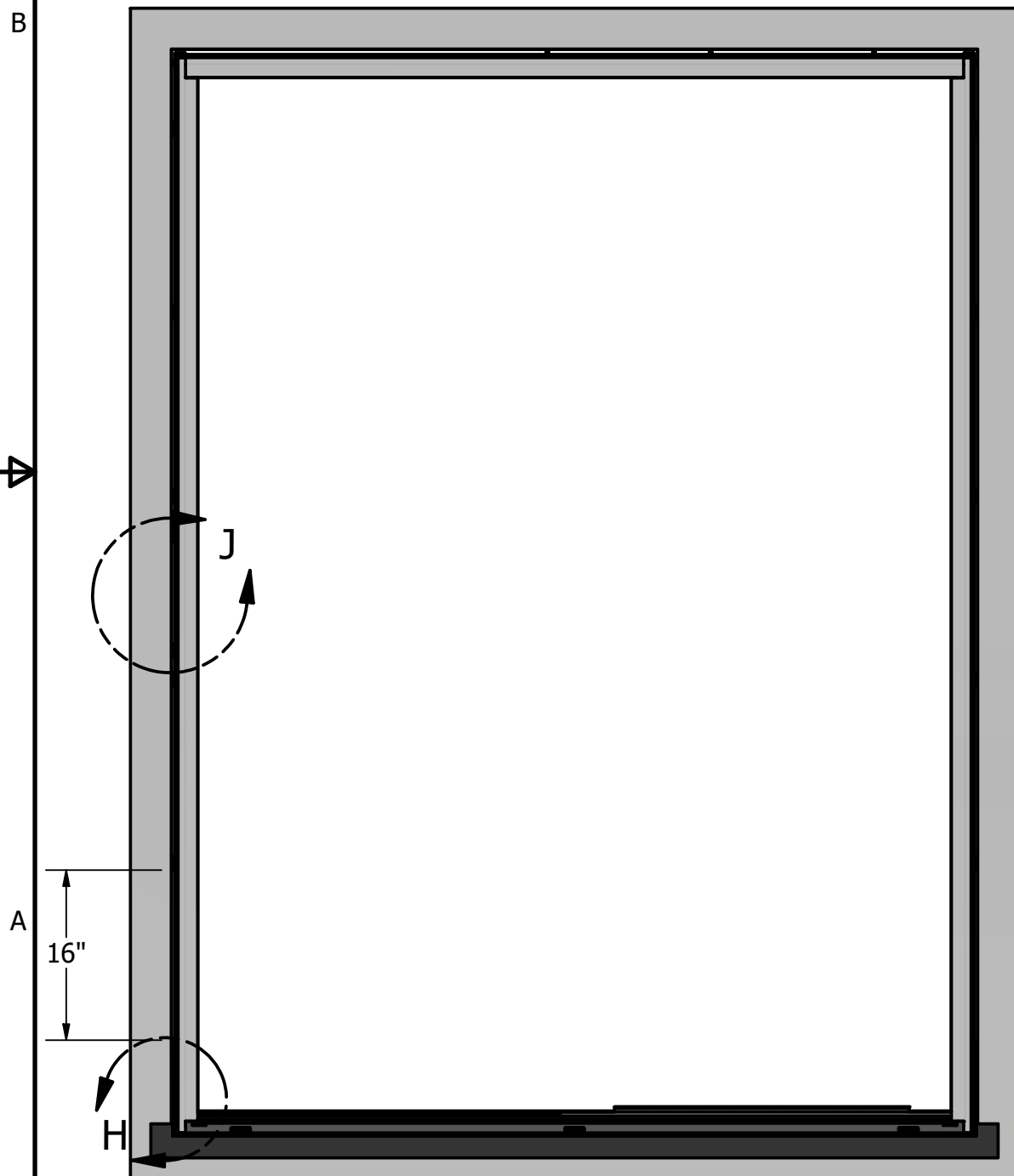
METHOD 1: ANCHORING THROUGH THE FRAME

1A.) CENTER THE FRAME IN THE RSO (ROUGH STUD OPENING) SO THERE IS EQUAL SPACE BETWEEN THE FRAME AND THE ROUGH OPENING.  
NOTE: ENSURE SILL ANCHOR IS SITTING IN THE PROPER LOCATION.



## METHOD 1: ANCHORING THROUGH THE FRAME

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



1B.) SHIM SIDE JAMB FRAME MEMBERS 6" FROM TOP AND BOTTOM.

1C.) SHIM SIDE JAMB FRAME MEMBERS 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

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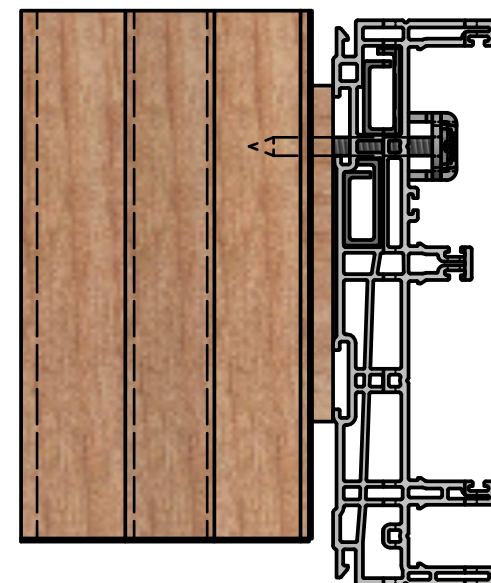
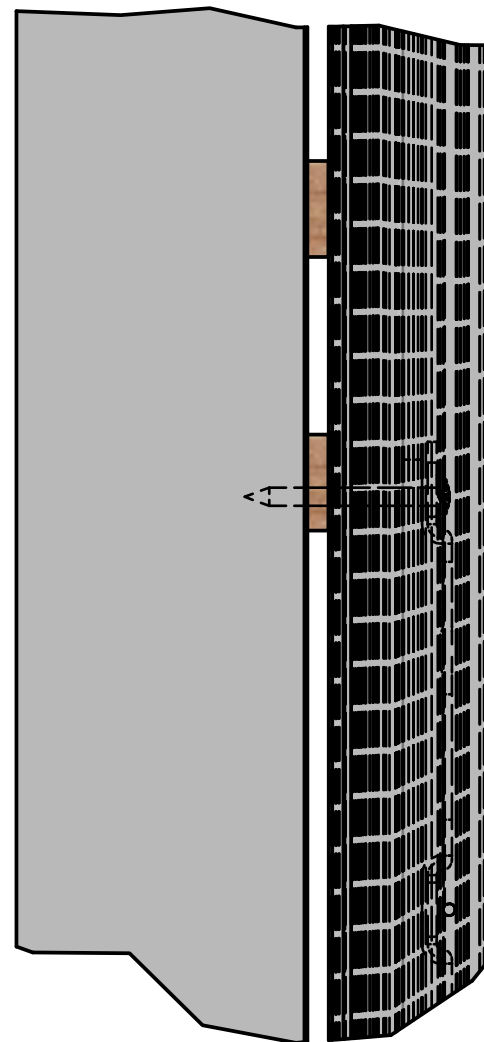
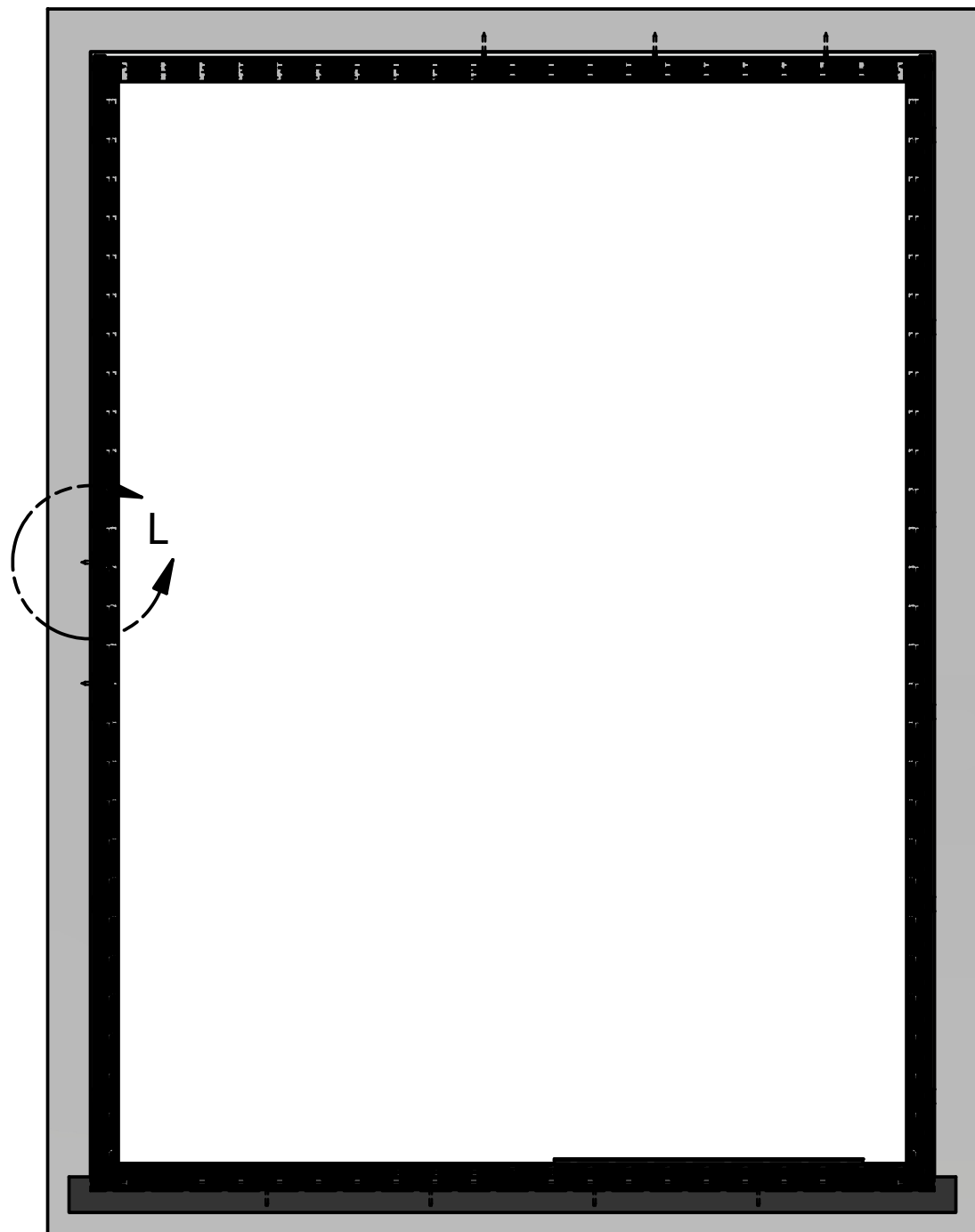
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TOOLS REQUIRED:  
SHIMS, SEALANT,  
POWER DRILL, SCREWS,  
LEVEL

## METHOD 1: ANCHORING THROUGH THE FRAME

NOTE: REMOVE POCKET COVERS AS NEEDED

1D.) 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)



1E.) INSTALL SCREWS THROUGH THE HEAD JAMB INTO THROUGH OPENING AT 16" INTERVALS

1F.) 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.

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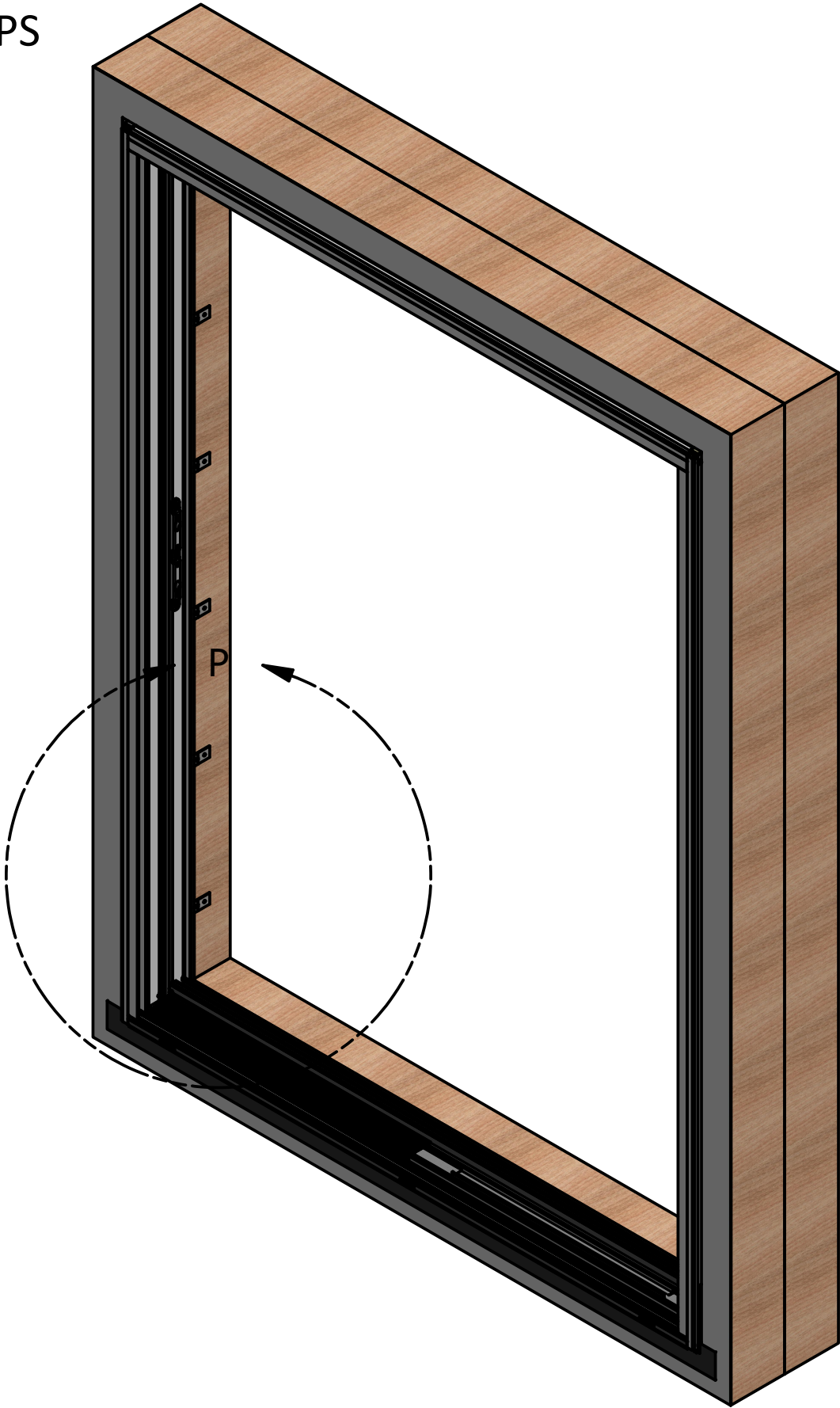
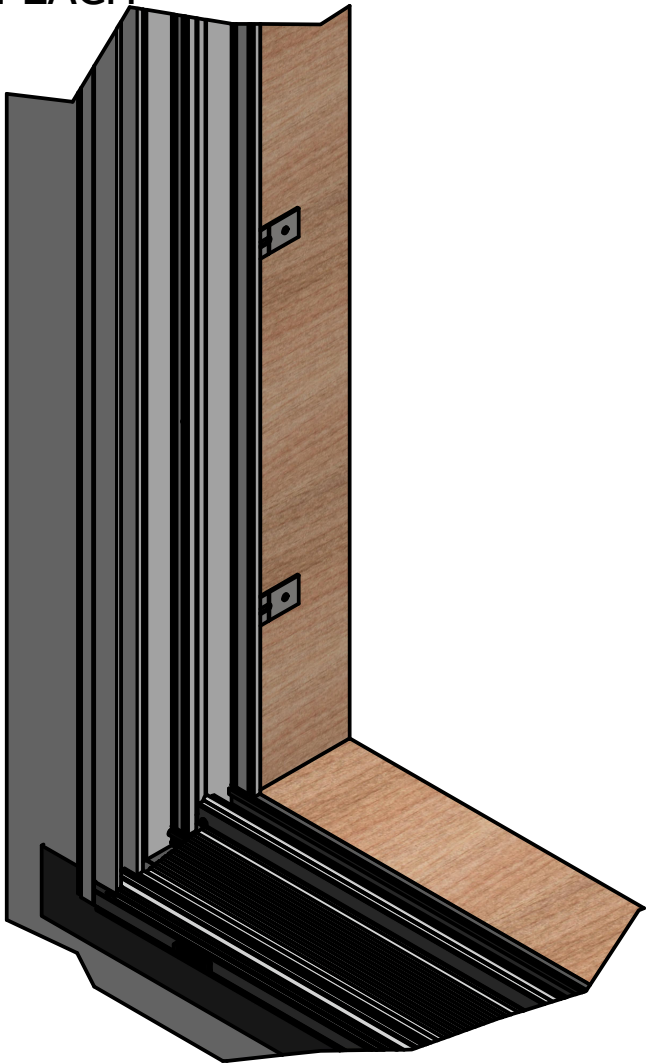
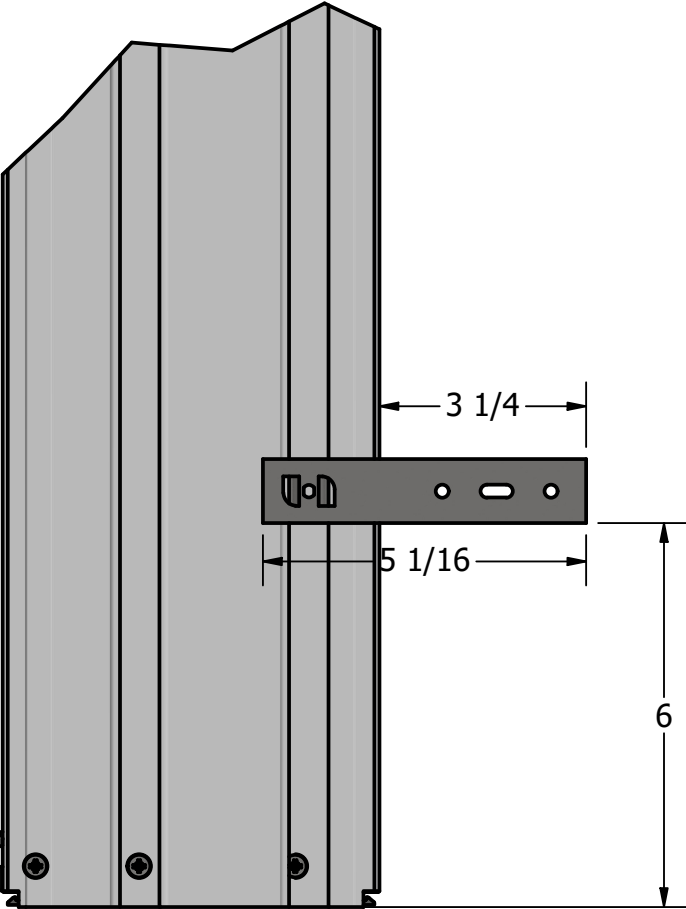
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METHOD 2: USING INSTALLATION CLIPS

1A.) INSERT THE GALVANIZED STEEL ANCHOR CLIPS 6" IN FROM EACH CORNER AND THEN AT APPROXIMATELY 16" INTERVALS AT THE JAMBS AND AT THE HEAD

1B.) 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.

1C.) 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 INSTALLATION CLIPS

### TOOLS REQUIRED:

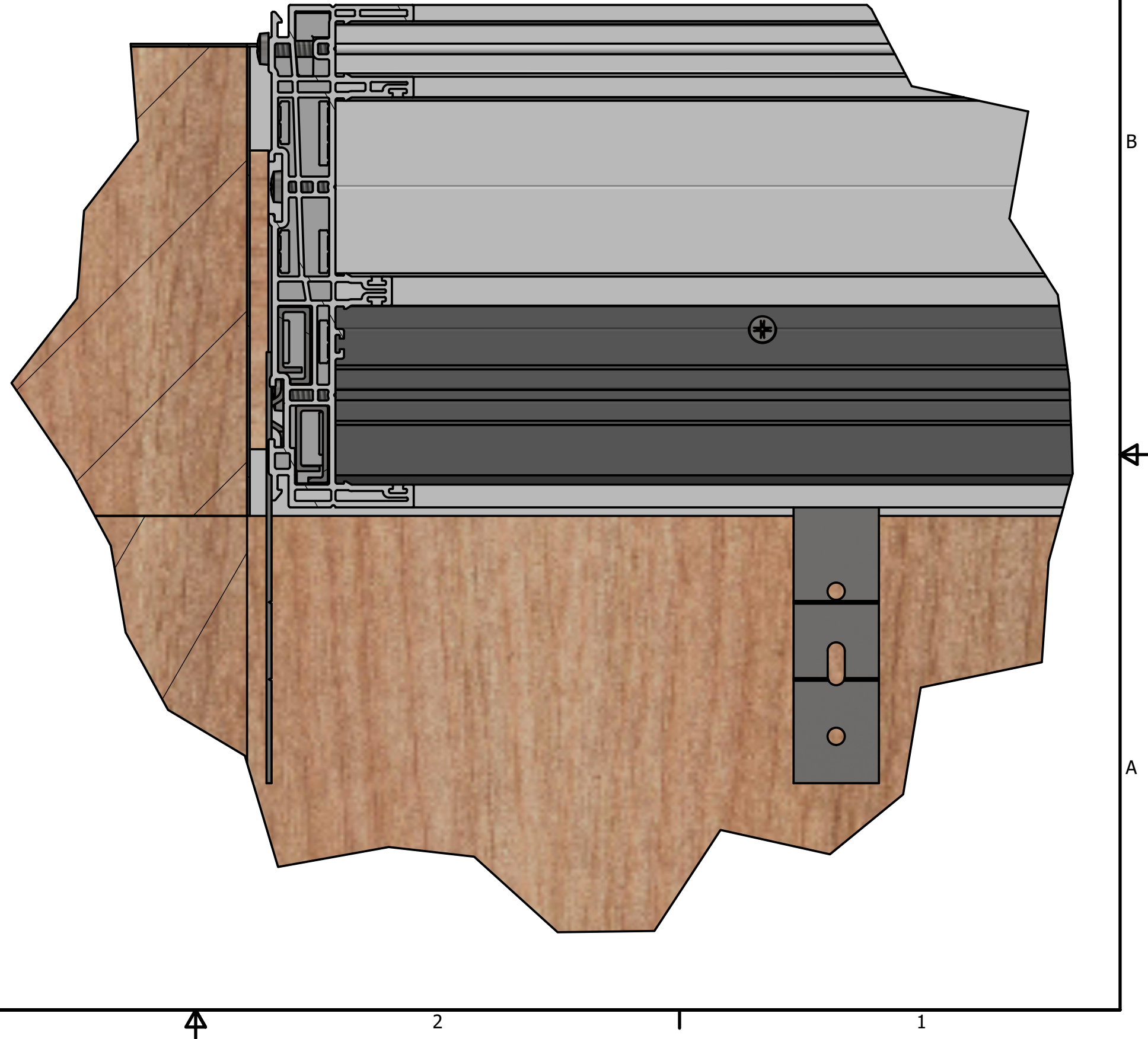
SHIMS, TAPE MEASURE, SEALANT,  
POWER DRILL, SCREWS

1D.) 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

1E.) 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)

1F.) 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.



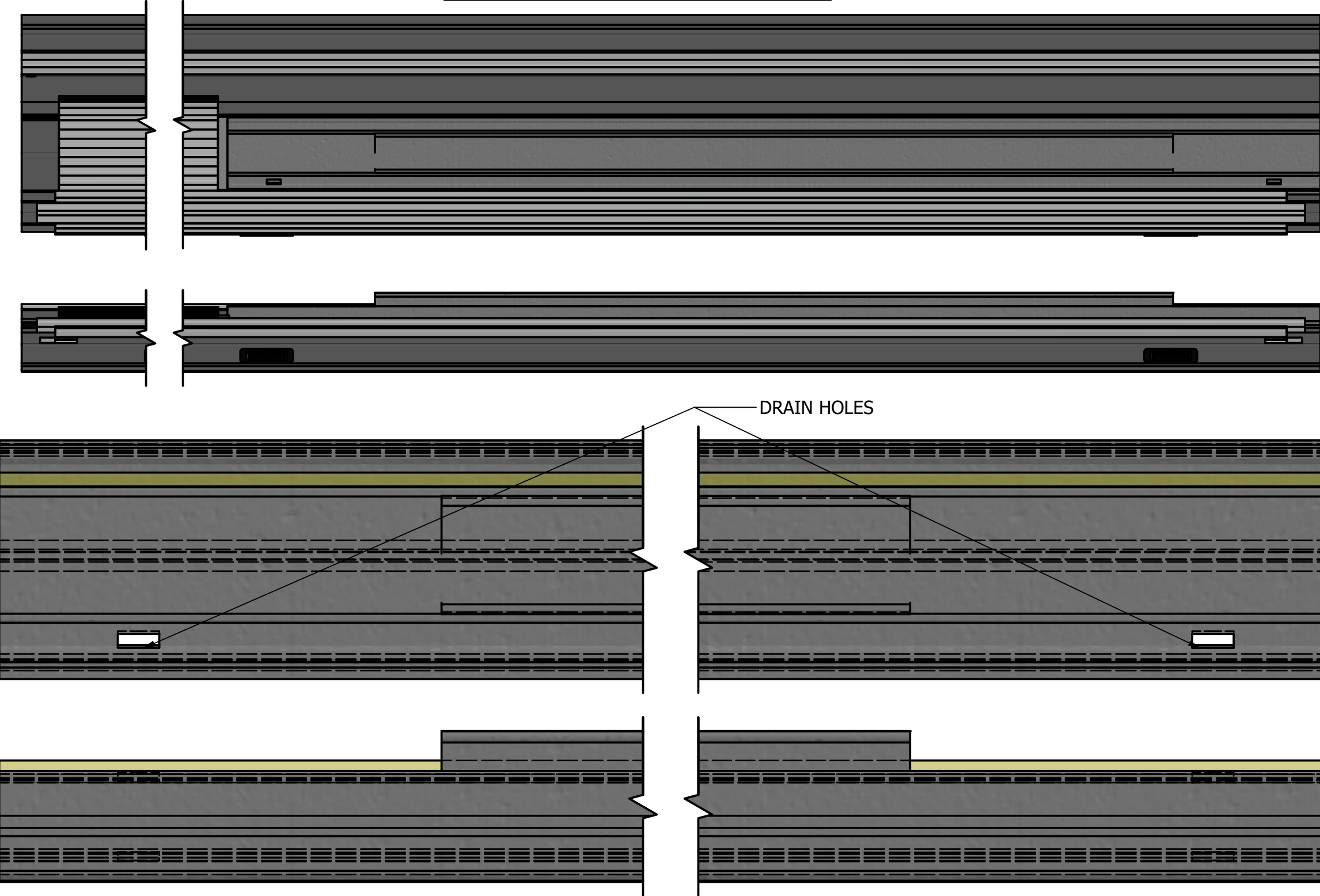
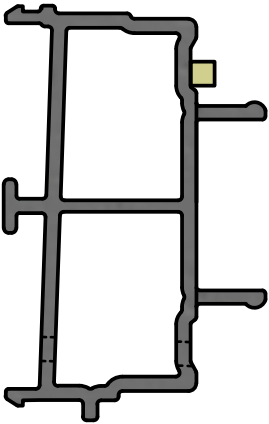
TOOLS REQUIRED:  
SEALANT

IF FIXED SASH IS SHIPPED LOOSE:

7.) APPLY "U" BEAD OF SEALANT TO THE SUPPORT BLOCK AS SHOWN IN THE DIAGRAM

DO NOT BLOCK DRAIN HOLES.

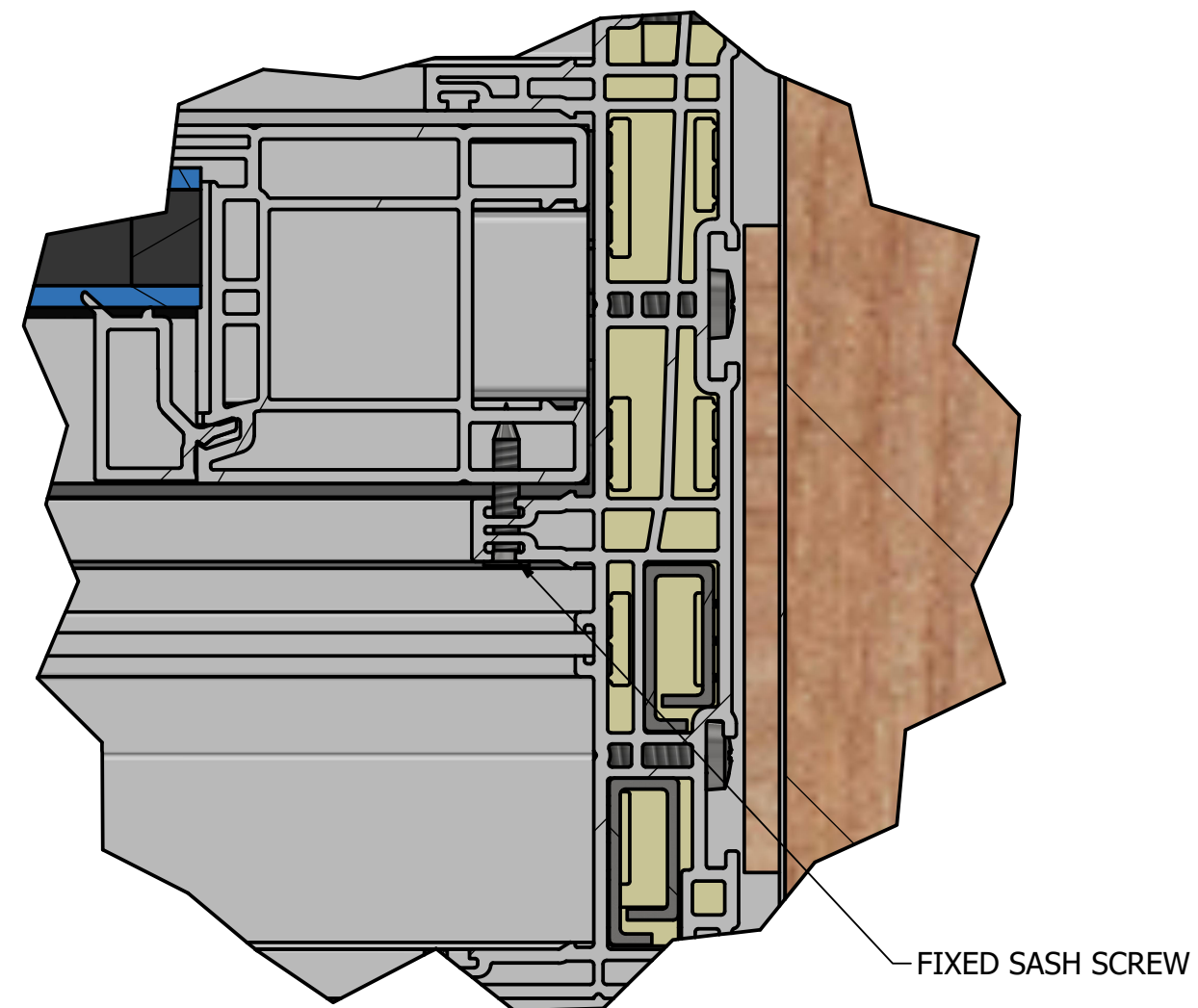
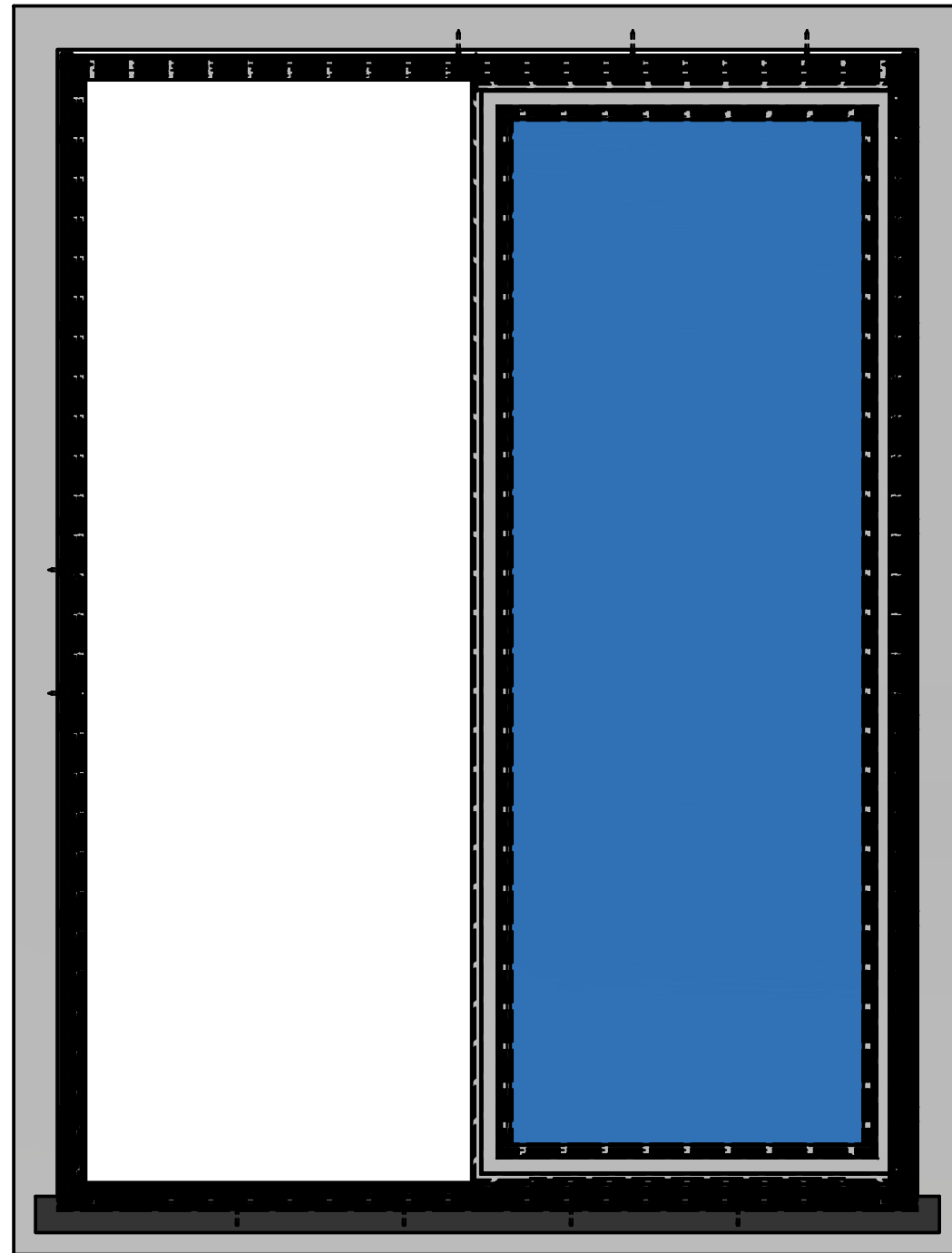
SILL ASSEMBLY



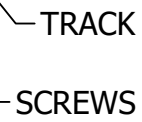
TOOLS REQUIRED:  
POWER DRILL, SASH  
SCREWS

IF FIXED SASH IS SHIPPED LOOSE

- 8.) INSERT THE FIXED SASH ASSEMBLY INTO THE FIXED HEAD POCKET OVER THE SLOPPED SILL COVER.
- 9.) SLIDE THE FIXED SASH OVER THE SUPPORT BLOCK AND FIT IT INTO THE POCKET
- 10.) ANCHOR THE SASH TO THE JAMB USING SCREWS PROVIDED THROUGH THE OPERATING CHANNEL
- 11.) ANCHOR THE HEAD THROUGH THE W/S ADAPTER USING SCREW PROVIDED

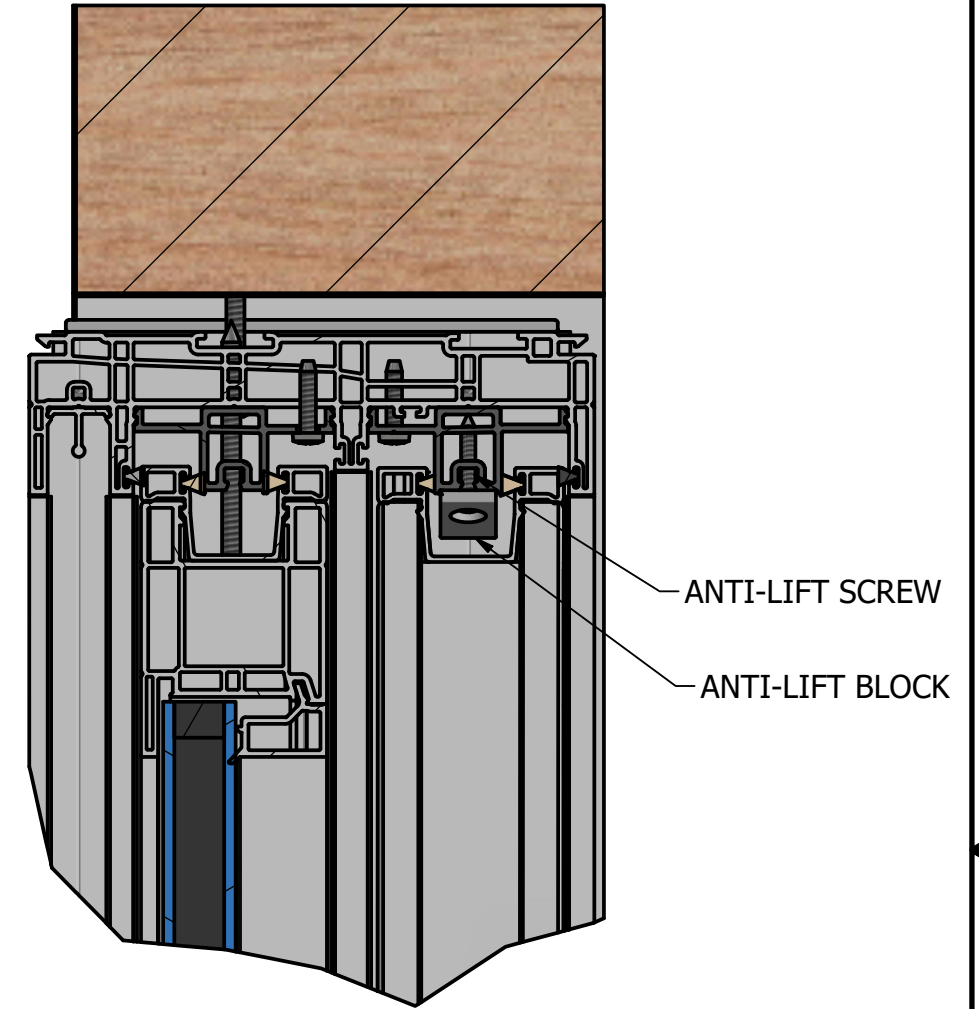
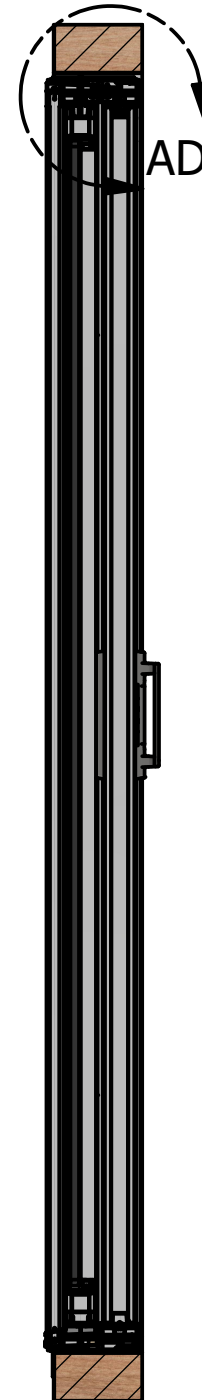
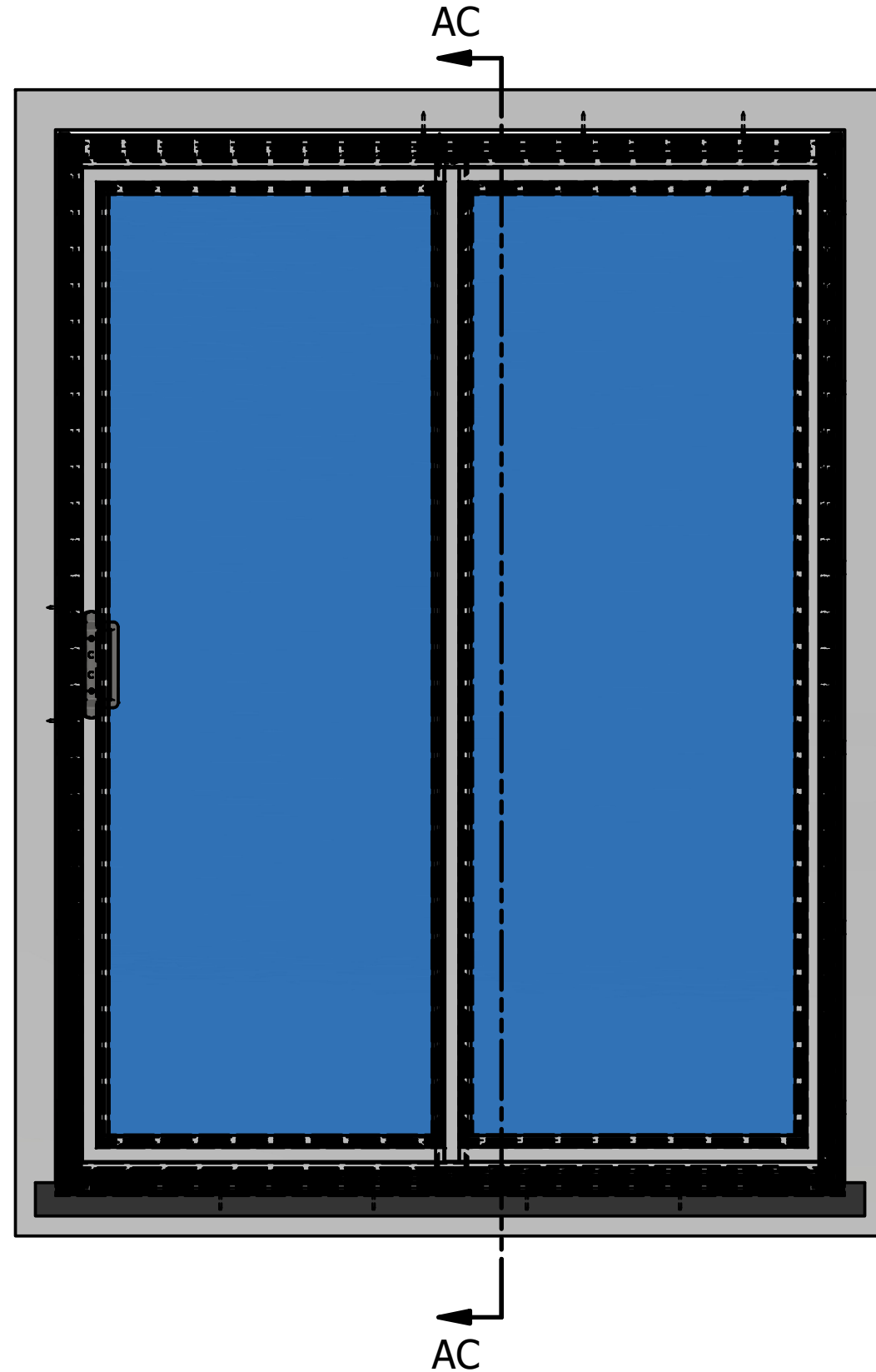


PRY BAR, POWER DRILL, 1/2"X 16" WOOD BLOCK, Mallet



14.) SLIDE THE OPERATING PANEL FROM THE INTERIOR INTO THE FRAME CHANNEL. ENSURE ROLLERS ARE CONTACTING THE SILL TRACK

TOOLS REQUIRED:  
POWER DRILL, ANTI-LIFT BLOCK SCREW

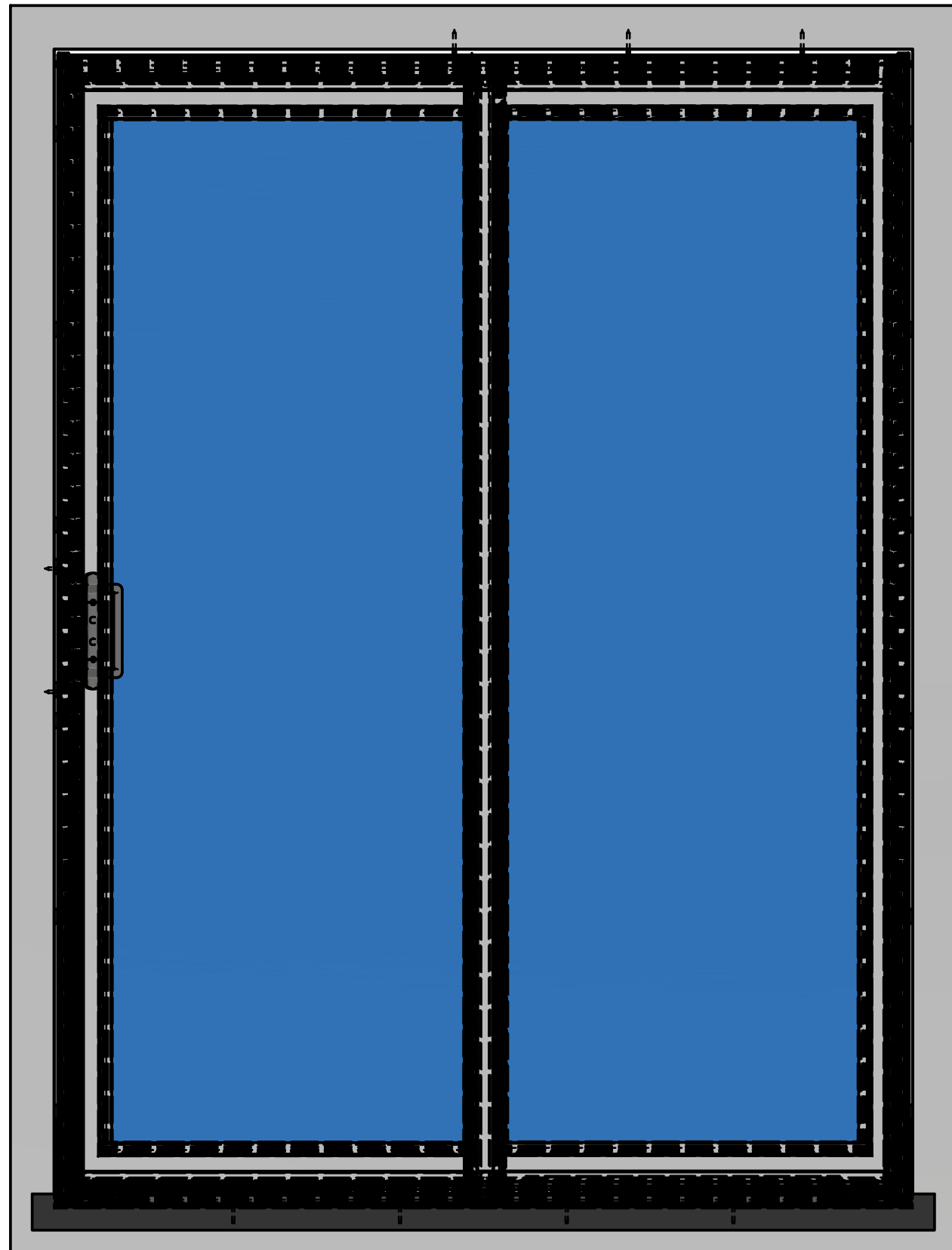


16.) INSTALL ANTI-LIFT BLOCK.  
THE BLOCK SHOULD BE FLUSH WITH THE SASH END  
IN LOCKED POSITION.  
THIS WILL ENSURE THAT THE INTERLOCK DOES  
NOT INTERFERE IN THE OPERATION

17.) ADJUST THE SASH AS REQUIRED



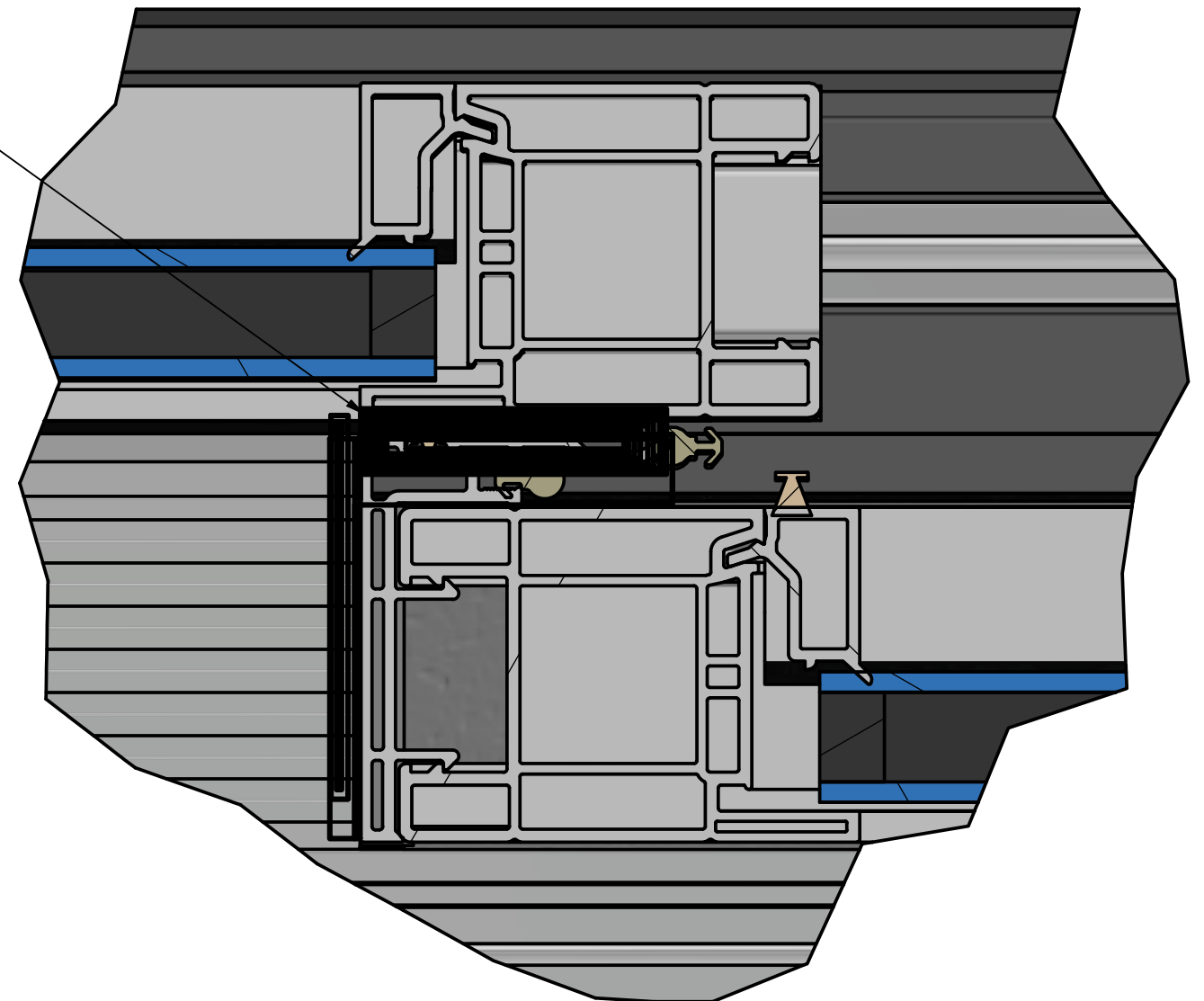
TOOLS REQUIRED:  
SEALANT, Mallet



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

20.)INSTALL FIXED JAMB POCKET COVER

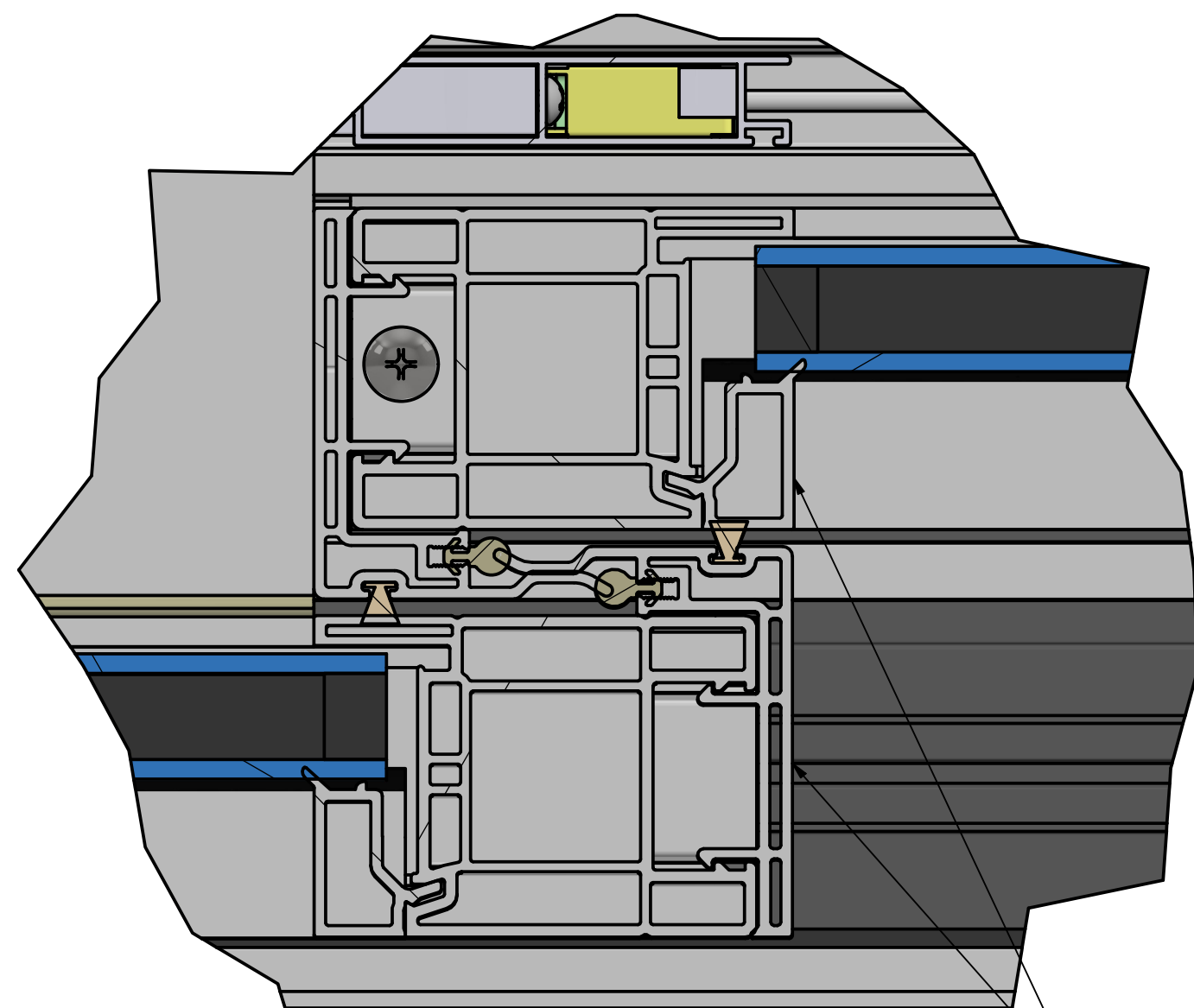
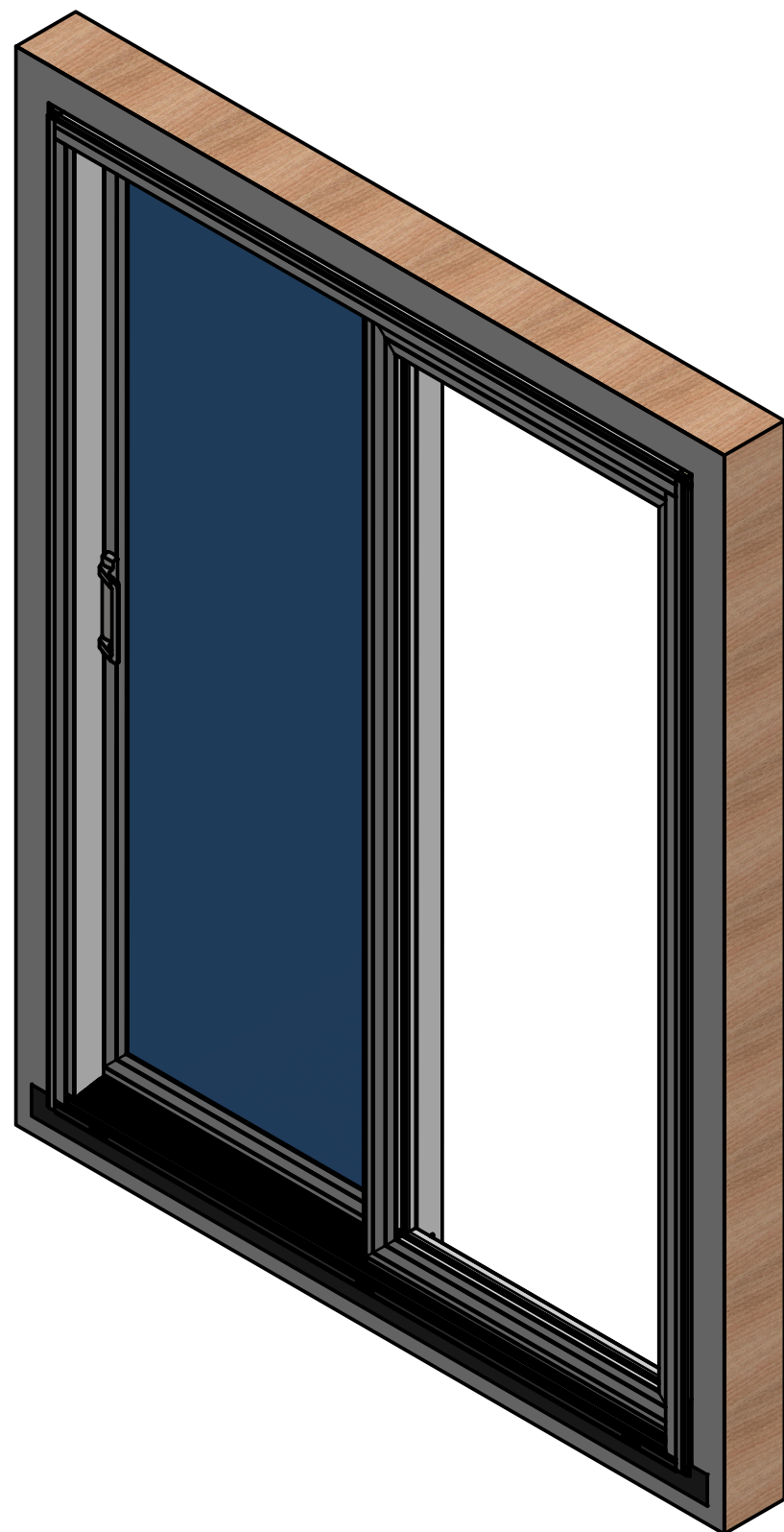
SEALANT  
LOCATION



TOOLS REQUIRED:  
MALLET

- 21.) INSTALL OPERATING SASH INTERLOCK
- 22.) INSTALL OPERATING JAMB POCKET COVERS

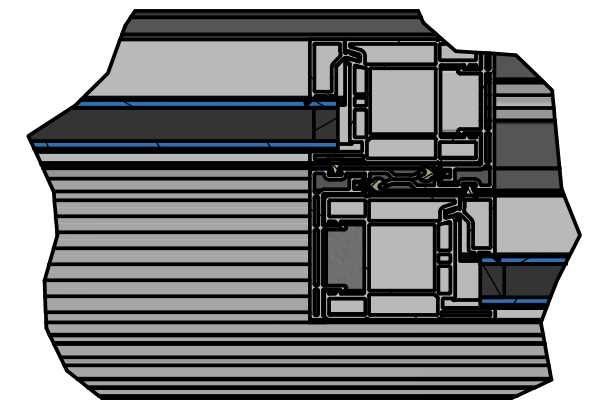
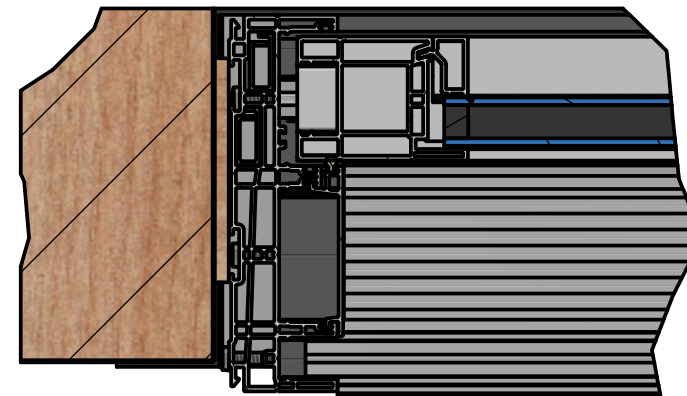
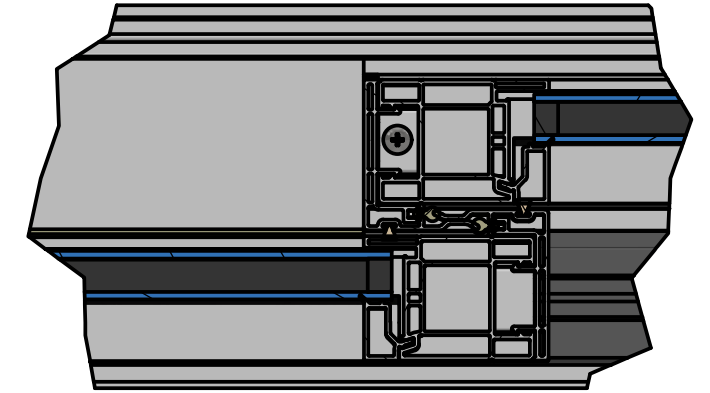
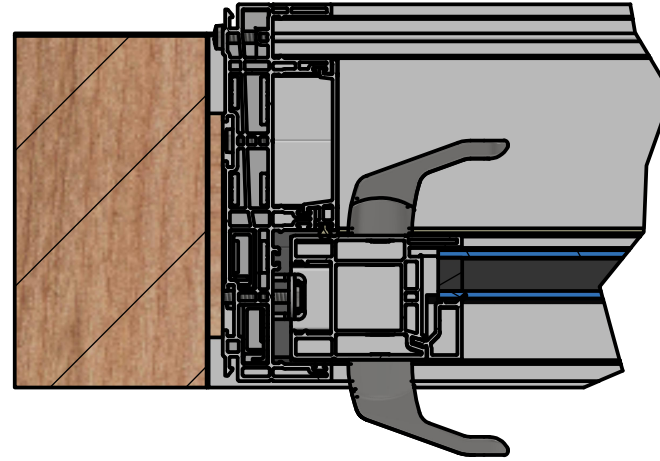
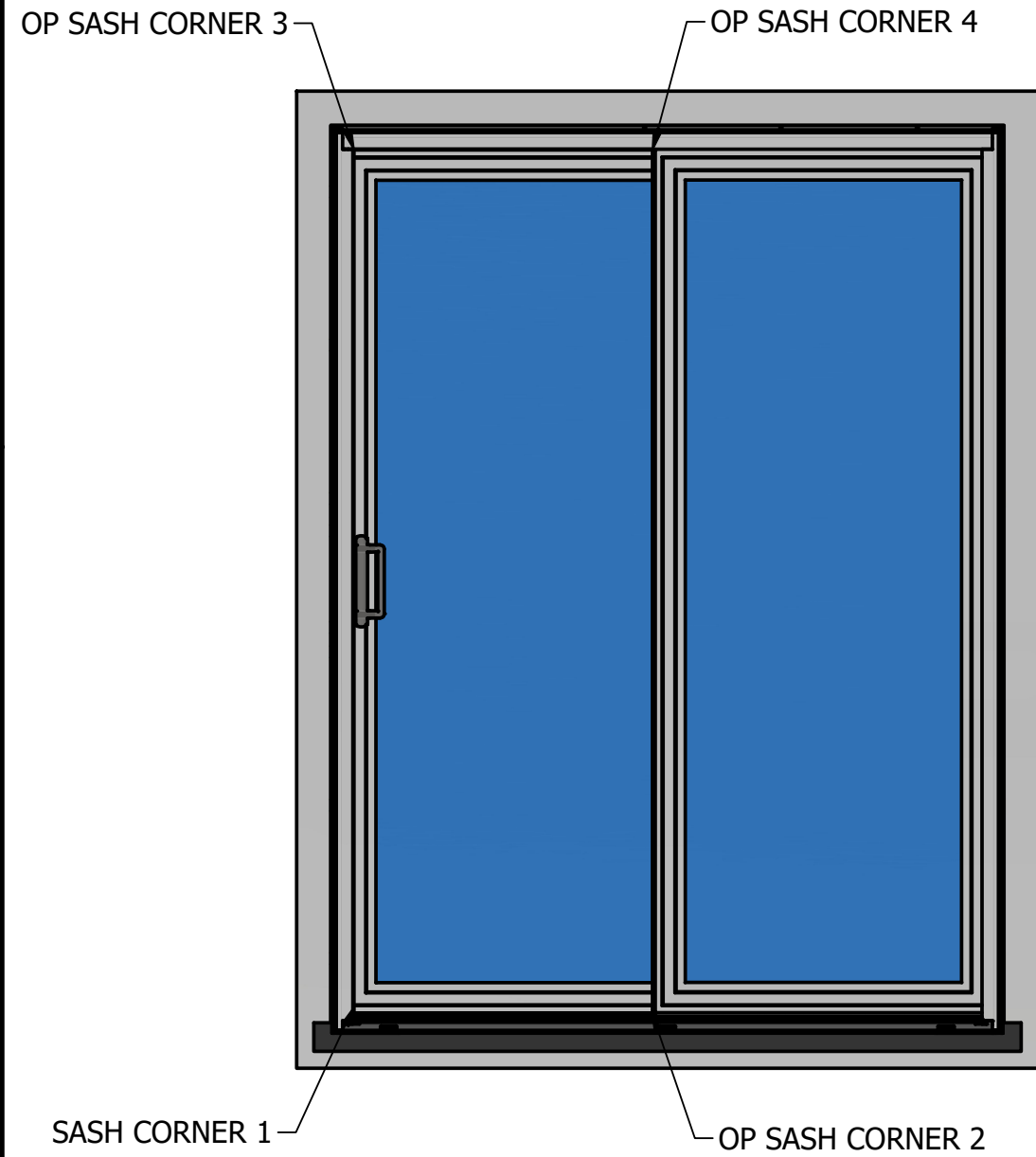
CHECK ALIGNMENT BETWEEN THE TWO SASHES. INTERLOCK  
SHOULD BE FLUSH WITH GLASS STOP AS SHOWN BELOW



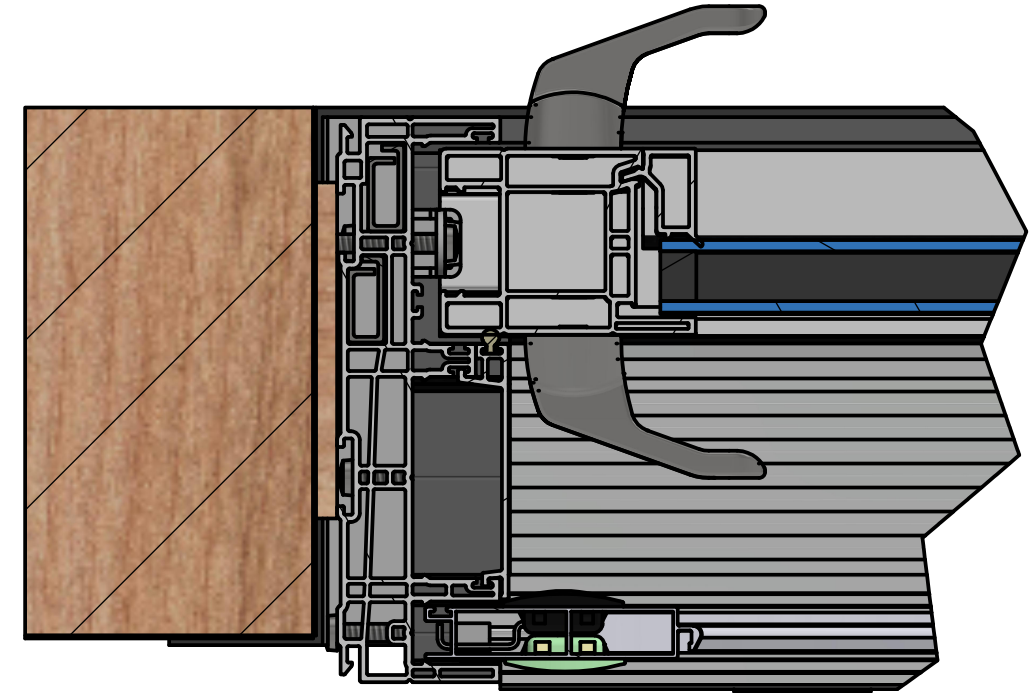
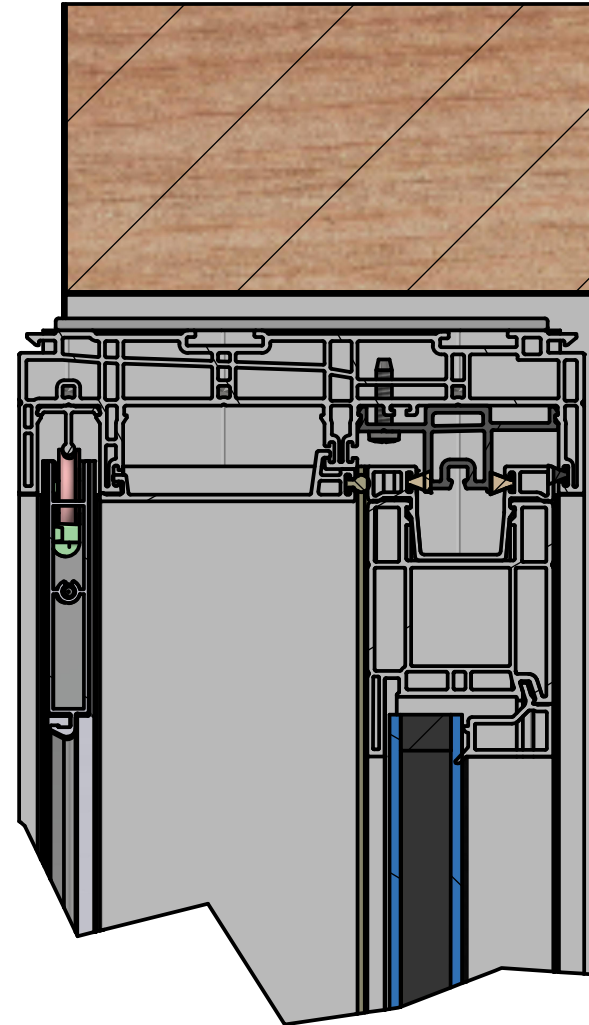
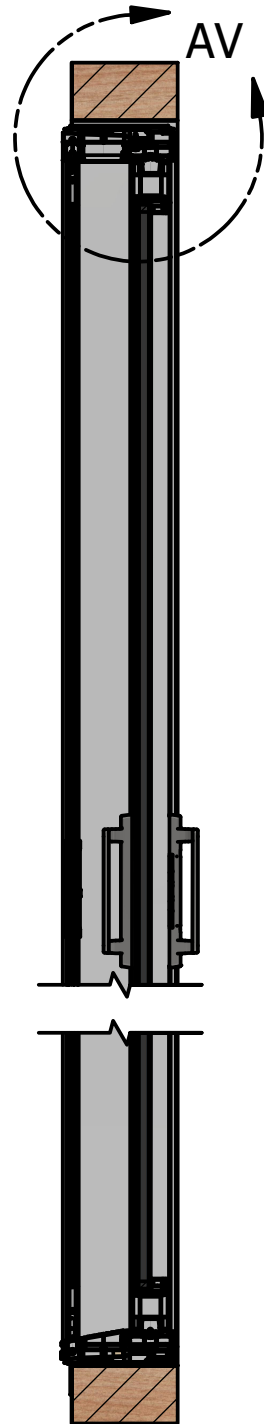
FLUSH

TOOLS REQUIRED:  
Mallet, SEALANT

- 23.) INSTALL HEAD JAMB POCKET COVER AND SEAL EACH END  
24.) APPLY SEALANT AT EACH END OF THE SLOPED SILL COVER



TOOLS REQUIRED:  
BACKER ROD, SPRAY FOAM INSULATION  
UTILITY KNIFE



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

26.) 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.

27.) SEAL AND TRIM DOOR AT THE EXTERIOR AND INTERIOR SURFACES TO SUIT APPLICATION.

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28.) INSTALL AND ADJUST SCREEN DOOR

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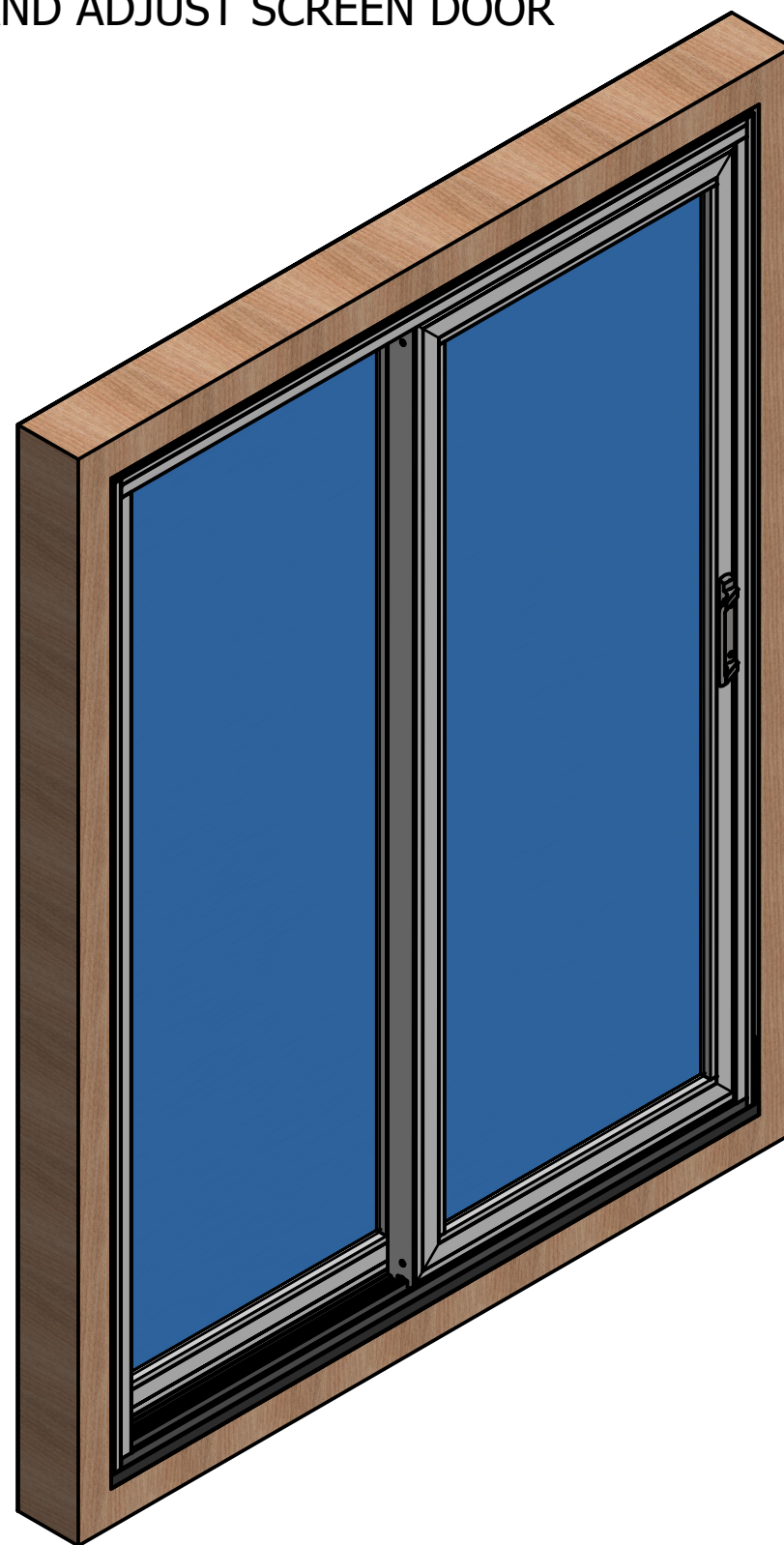
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