

INSTALLATION GUIDE

**ALUMINUM SKYLIGHT
VISION 700R/HP**












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LEGEND OF REQUIRED TOOLS:

	: REQUIRED USE OF A FINGER
	: CLOTHS
	: RETRACTABLE UTILITY KNIFE
	: RUBBER Mallet
	: HAMMER
	: BRUSH
	: CAULKING GUN
	: RIVET GUN
	: SILICONE SEALANT APPLICATOR
	: IMPACT DRIVER
	: VACUUM CUP GLASS LIFTER

INSTALLING CONNECTORS

ALUMINUM SKYLIGHT:

SKYLIGHT ARE DELIVERED TO BUILDING SITES IN PRE-ASSEMBLED SECTIONS OR AS SEPERATE PARTS. TO FACILITATE TRANSPORTATION, A FACADE CAN CONSIST OF MULTIPLE SECTIONS. CERTAIN CONNECTORS MAY BE SECURED TO THE MULLIONS TO SIMPLIFY INSTALLATION ON SITE. TO COMPLETE THE ASSEMBLY PROCESS, INSERT THE REMAINING MULLIONS BETWEEN THE PRE-ASSEMBLED SECTIONS.

CONSULT THE SHOP DRAWINGS FOR GUIDANCE ON THE PLACEMENT AND NUMBERING OF MULLIONS AND CONNECTORS.

ON-SITE ASSEMBLY:

1. POSITIONING THE CONNECTORS
CONSULT SHOP DRAWINGS TO AVOID INCOMPATIBLE MATERIALS. MAKE SURE TO ADD A DIELECTRIC STRIP.
2. SECURING THE MULLIONS TO THE CONNECTORS
USE THE PROVIDED HARDWARE (REINFORCEMENT TUBE, NUTS, WASHERS, AND LOCK WASHERS) TO MOUNT THE VERTICAL MULLION SECURELY IN ITS DESIGNATED CONNECTOR, ALIGNING IT ACCORDING TO THE POSITION AND PITCH ANGLE INDICATED IN THE SHOP DRAWINGS. INSERT THE REINFORCEMENT TUBE INTO THE MULLION BEFORE SECURING THE ANCHOR BOLT.

POSITIONING THE CONNECTORS:

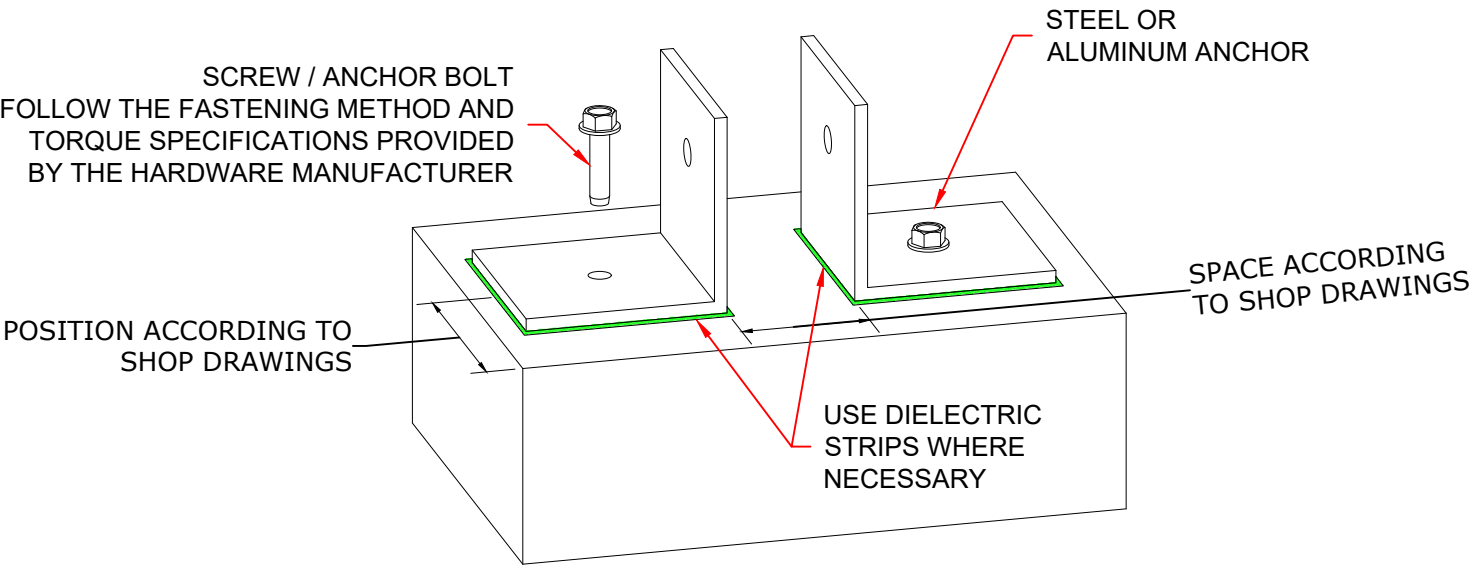


FIGURE 1: STANDARD SKYLIGHT CONNECTOR. REFER TO THE SHOP DRAWING FOR PARTICULARS

SECURING THE MULLIONS TO THE CONNECTORS:

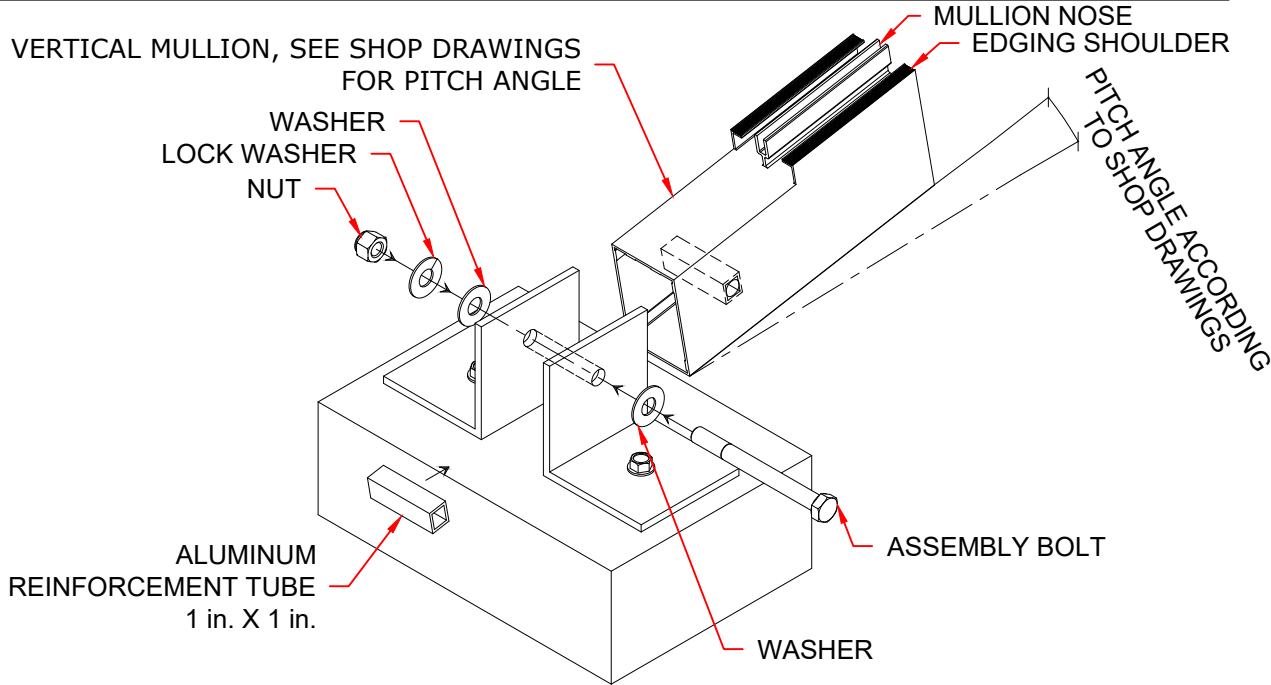
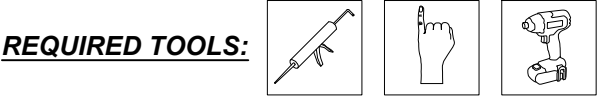


FIGURE 2: FITTING A MULLION INTO A CONNECTOR

ASSEMBLING MULLIONS



INSTRUCTIONS:

CONNECT THE HORIZONTAL MULLION WITH THE VERTICAL MULLIONS. APPLY SILICONE TO THE JOINT WHERE THE HORIZONTAL AND VERTICAL MULLIONS MEET, AS ILLUSTRATED IN THE STEPS BELOW. AFTER POSITIONING THE HORIZONTAL MULLION, FASTEN IT TO THE VERTICAL MULLIONS USING SCREWS THROUGH THE DESIGNATED HOLES. SEAL MECHANICAL JOINTS WITH A SILICONE SEALANT SUCH AS DOW CORNING® CWS OR AN APPROVED ALTERNATIVE.

IMPORTANT:
THE CONTRACTOR MUST FOLLOW THE OUTLINED PROCEDURES AND APPLY THE SILICONE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

STEP 1:

USE SILICONE TO SEAL THE POINTS WHERE THE VERTICAL AND HORIZONTAL MULLIONS MEET ON THE ALUMINUM SECTIONS. ENSURE SILICONE IS APPLIED TO THE EDGING SHOULDER.

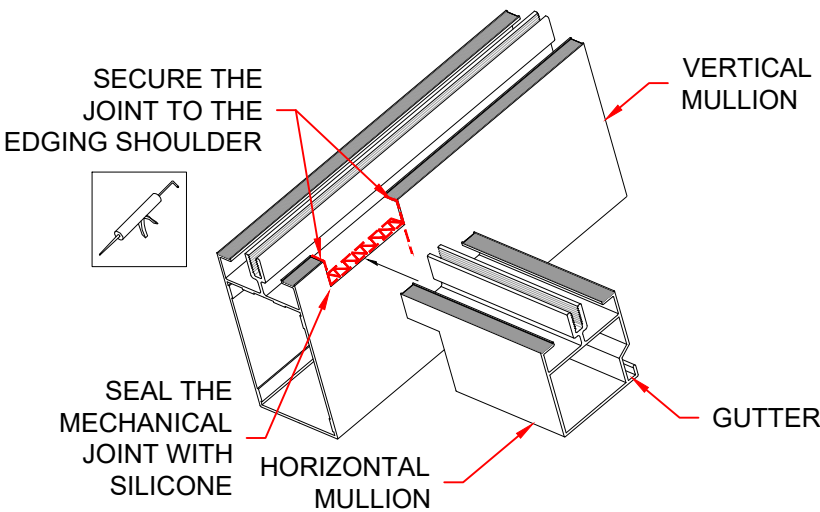


FIGURE 3: SEE DESCRIPTION OF STEP 1

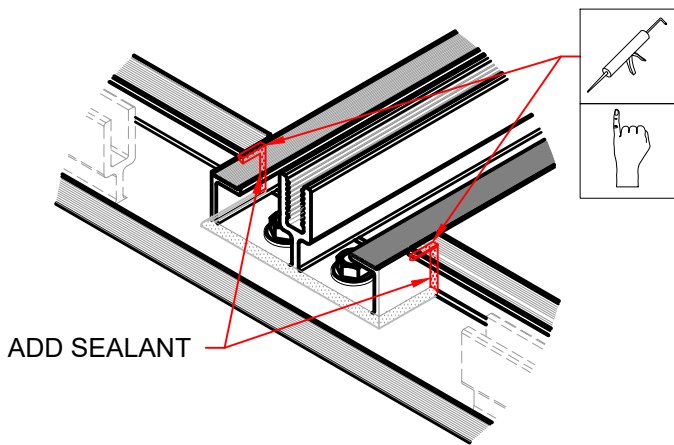


FIGURE 5: SEE DESCRIPTION OF STEP 3

STEP 2:

APPLY SEALANT ALONG THE JOINTS WHERE THE EDGING SHOULDERS MEET THE HORIZONTAL AND VERTICAL MULLIONS. USE A FINGER DAMPENED WITH SOAPY WATER TO SMOOTH OUT THE JOINT.

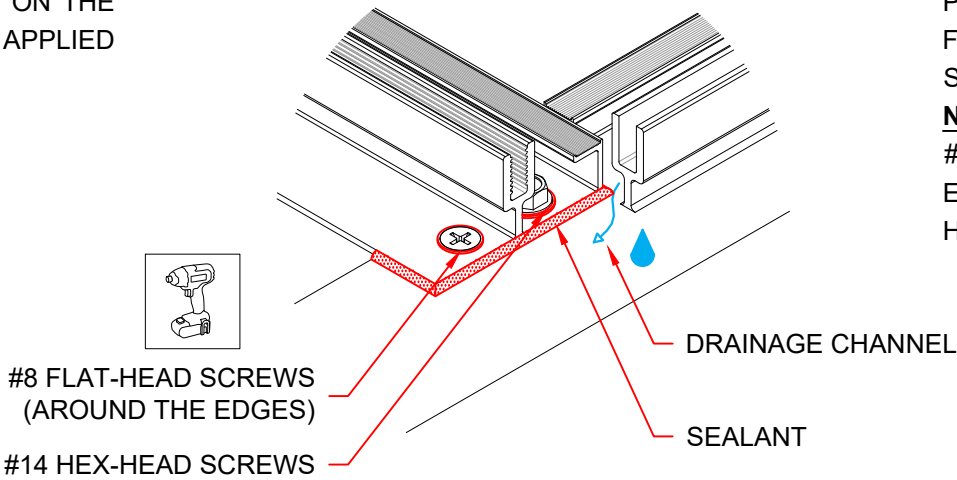


FIGURE 4: SEE DESCRIPTION OF STEP 2

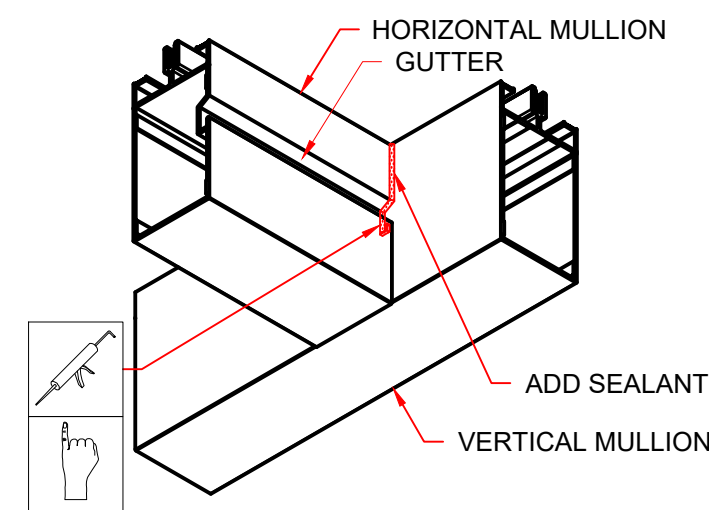


FIGURE 6: SEE DESCRIPTION OF STEP 4

STEP 2:

SECURE THE MULLIONS USING THE SCREWS PROVIDED. ENSURE THAT THE SILICONE FORMS AN UNBROKEN SEAL WHERE THE SECTIONS INTERSECT. **MAKE SURE YOU DO NOT BLOCK THE DRAINAGE CHANNEL.** USE #8 FLAT-HEAD SCREWS AROUND THE EDGES OF THE SKYLIGHT AND #14 HEX-HEAD SCREWS EVERYWHERE ELSE.

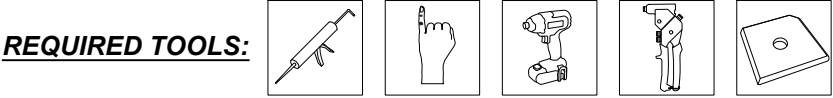
STEP 4:

APPLY SILICONE TO THE JOINT WHERE THE HORIZONTAL AND VERTICAL MULLIONS MEET ON THE UPPER SECTIONS. **MAKE SURE TO APPLY THE SEALANT INSIDE THE GUTTER** AND USE A FINGER DAMPENED WITH SOAPY WATER TO SHAPE AND SMOOTH OUT THE JOINT FROM INSIDE THE GUTTER.

SECURING MEMBRANE SUPPORTS

INSTRUCTIONS:

*FOR PYRAMID SKYLIGHTS, SEE APPENDIX 1 AND 2



1. SECURE THE MEMBRANE SUPPORTS TO BOTH THE VERTICAL AND HORIZONTAL MULLIONS USING POP RIVETS AT THE SKYLIGHT'S EDGE.

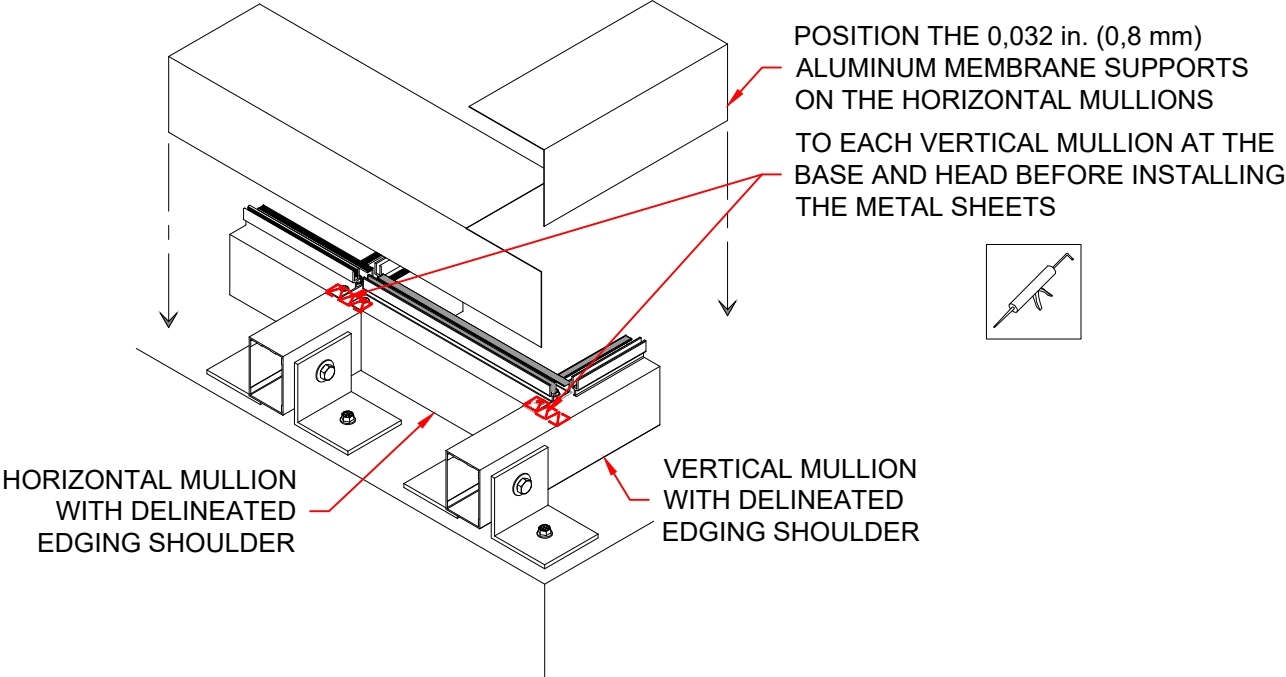


FIGURE 7: FITTING MEMBRANE SUPPORTS

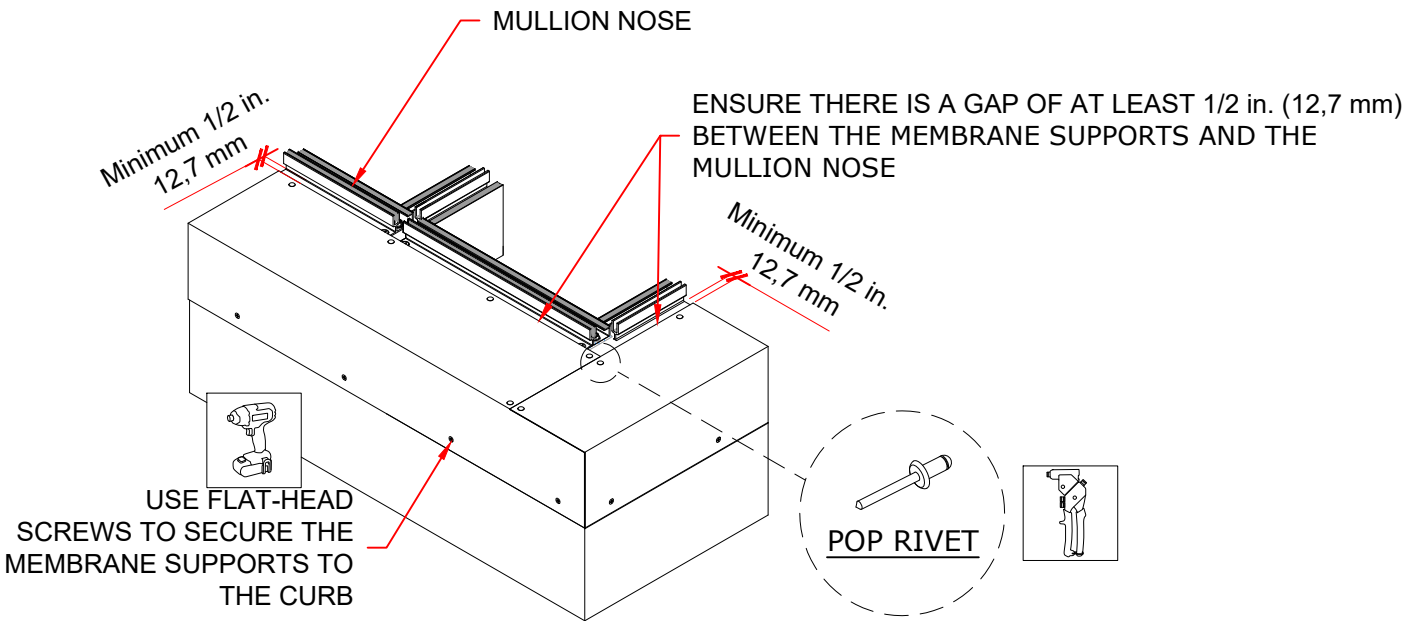


FIGURE 8: SECURING MEMBRANE SUPPORTS

2. AT THE RIDGE OF THE SKYLIGHT, USE SILICONE SEALANT WHERE THE MULLION PROFILES MEET, **SEE FIGURE 9.**
3. APPLY SEALANT TO THE EDGES WHERE THE ALUMINUM FLASHING WILL GO, THEN INSTALL THE FLASHING AND FASTEN IT WITH POP RIVETS, **SEE FIGURE 10.**

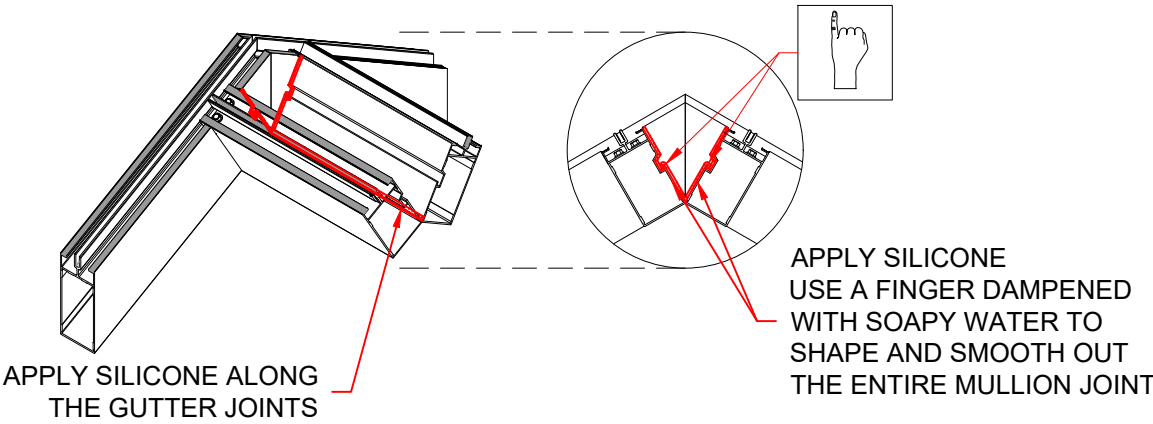


FIGURE 9: APPLY SILICONE

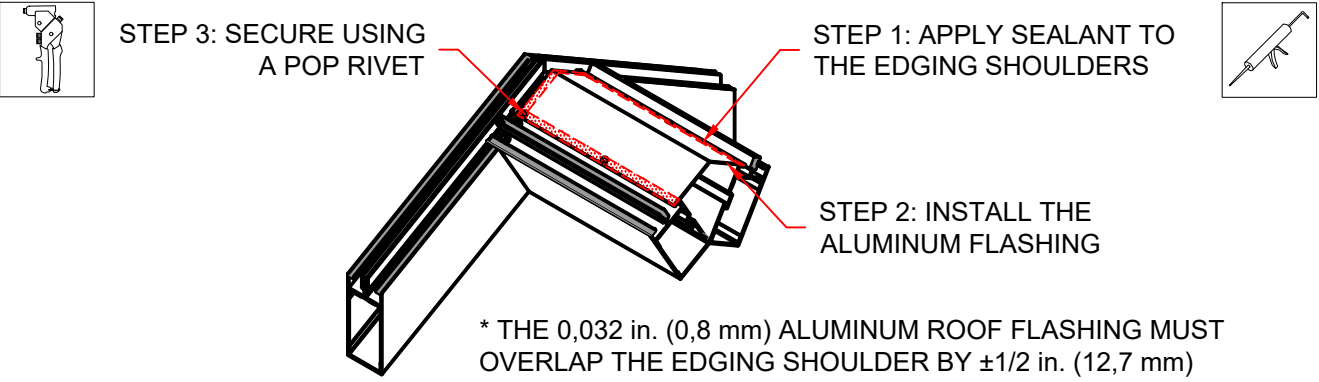
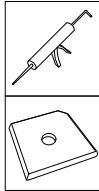






FIGURE 10: INSTALLATION OF THE ALUMINUM FLASHING



INSTALLING MEMBRANES

REQUIRED TOOLS:



INSTRUCTIONS:

- BEFORE APPLYING THE SEALING MEMBRANE, MAKE SURE TO APPLY A PRIMER ON THE MEMBRANE SUPPORTS. THIS WILL HELP THE MEMBRANE ADHERE BETTER.
- WHEN INSTALLING THE SEALING MEMBRANE, BE CAREFUL NOT TO PUNCTURE OR RIP IT. ALWAYS FOLLOW THE INSTRUCTIONS PROVIDED BY THE MEMBRANE MANUFACTURER. THE MEMBRANE SHOULD **TOUCH THE MULLIONS BY AT LEAST 1/4 in.** TO PROMOTE STRONG ADHESION AND ENSURE WATERPROOFING.
- USE JOINT FILLER TO GUARANTEE A TIGHT SEAL.

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO CORRECTLY INSTALL THE MEMBRANES AND TO FOLLOW THE OVERLAPPING INSTRUCTIONS PROVIDED BY THE MEMBRANE MANUFACTURER.

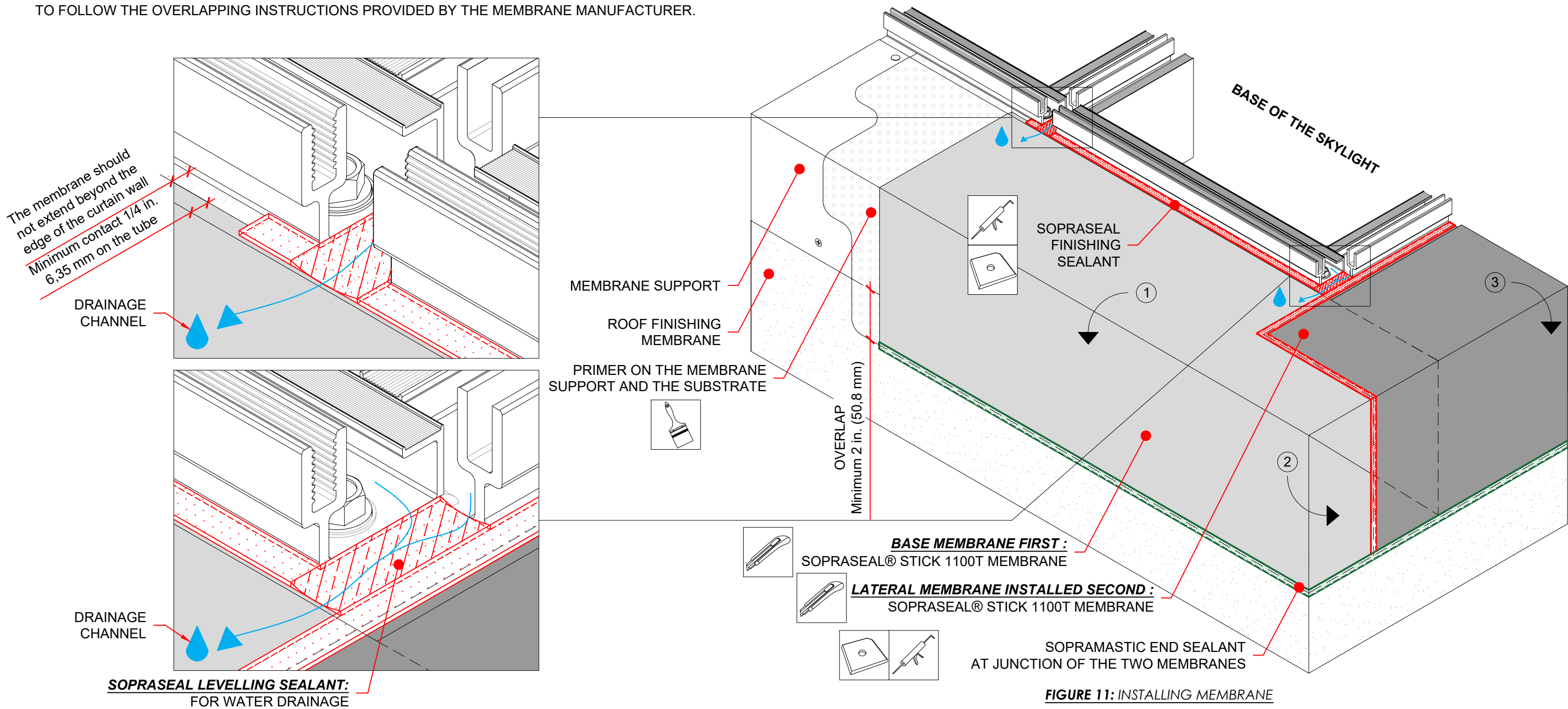


FIGURE 11: INSTALLING MEMBRANE

INSTALLING SEALING TAPE

INSTRUCTIONS:

1. BEFORE INSTALLING THE GLASS UNITS IN THEIR DESIGNATED SPACES, USE THE "TWO CLOTH" CLEANING METHOD TO THOROUGHLY CLEAN THE EDGING SHOULDER. THE CLOTHS SHOULD BE CLEAN, SOFT, ABSORBENT AND FREE OF LINT. APPLY THE ALCOHOL-BASED PRODUCT ONTO THE CLOTH, THEN USE IT TO RUB THE EDGING SHOULDERS TO REMOVE ANY ACCUMULATED DIRT. EXAMINE THE CLOTH AND USE A FRESH SECTION TO WIPE ONCE MORE UNTIL ALL TRACES OF DIRT HAVE BEEN REMOVED. THEN, USE A FRESH, DRY CLOTH TO REMOVE ANY MOISTURE FROM THE CLEANED SURFACE. REPEAT THESE STEPS AS MANY TIMES AS NEEDED TO ENSURE THAT THE SEALING TAPE ADHERES PROPERLY.
2. PLACE THE SEALING TAPE ON THE MULLION EDGING SHOULDERS AS SHOWN IN THE ILLUSTRATION.

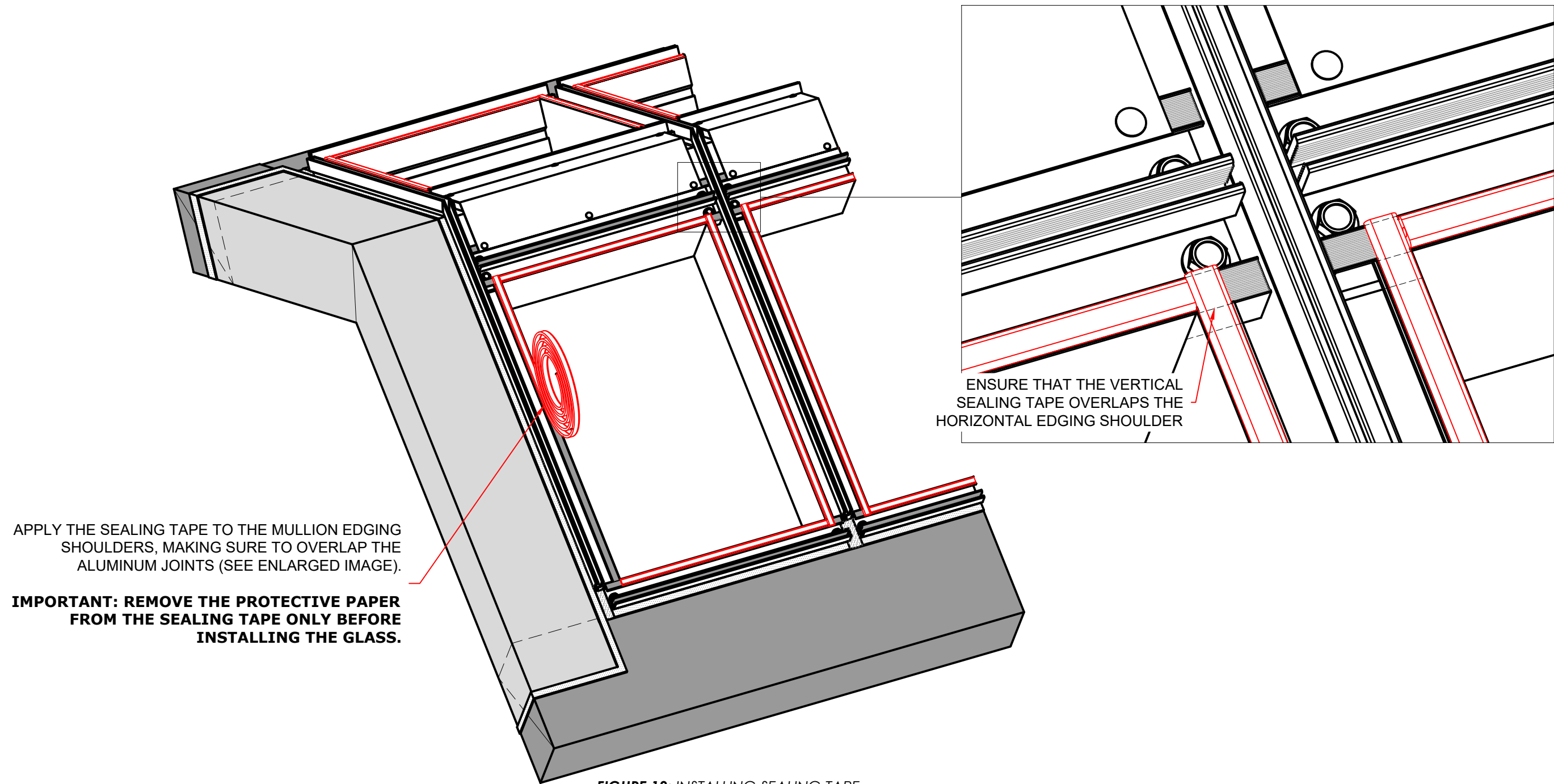
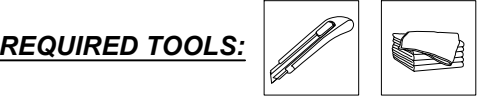


FIGURE 12: INSTALLING SEALING TAPE

INSTALLING GLAZING BRACKETS AND GLASS UNITS

REQUIRED TOOLS:



INSTRUCTIONS:

1. INSTALL 2 GLAZING BRACKETS AS SHOWN IN THE SHOP DRAWINGS, MAKING SURE THEY ARE CENTERED AND POSITIONED AT A DISTANCE EQUAL TO 1/4 in. OF THE LENTGH OF THE HORIZONTAL MULLION, UNLESS OTHERWISE SPECIFIED IN THE SHOP DRAWINGS.
2. BEFORE INSTALLING THE GLASS UNITS IN THEIR DESIGNATED SPACES, USE THE "TWO CLOTH" CLEANING METHOD TO THOROUGHLY CLEAN THE GLASS. TJE CLOTHS SHOULD BE CLEAN, SOFT, ABSORBENT AND FREE OF LINT. APPLY THE ALCOHOL-BASED PRODUCT ONTO THE CLOTH, THEN USE IT TO RUB THE GLASS TO REMOVE ANY ACCUMULATED DIRT. EXAMINE THE CLOTH AND USE A FRESH SECTION TO WIPE ONCE MORE UNTIL ALL TRACES OF DIRT HAVE BEEN REMOVED. THEN, USE A FRESH, DRY CLOTH TO REMOVE ANY MOISTURE FROM THE CLEANED SURFACE. REPEAT THESE STEPS AS MANY TIMES AS NEEDED TO ENSURE THAT THE SEALING TAPE ADHERES PROPERLY.
3. REMOVE THE PROTECTIVE PAPER FROM THE SEALING TAPE AND INSTALL THE THERMAL INSULATION WINDOW.

IMPORTANT:

HANDLE THE THERMAL INSULATION WINDOWS WITH CARE AND CONSIDER USING A VACUUM CUP GLASS LIFTER OR CRANE DURING INSTALLATION.

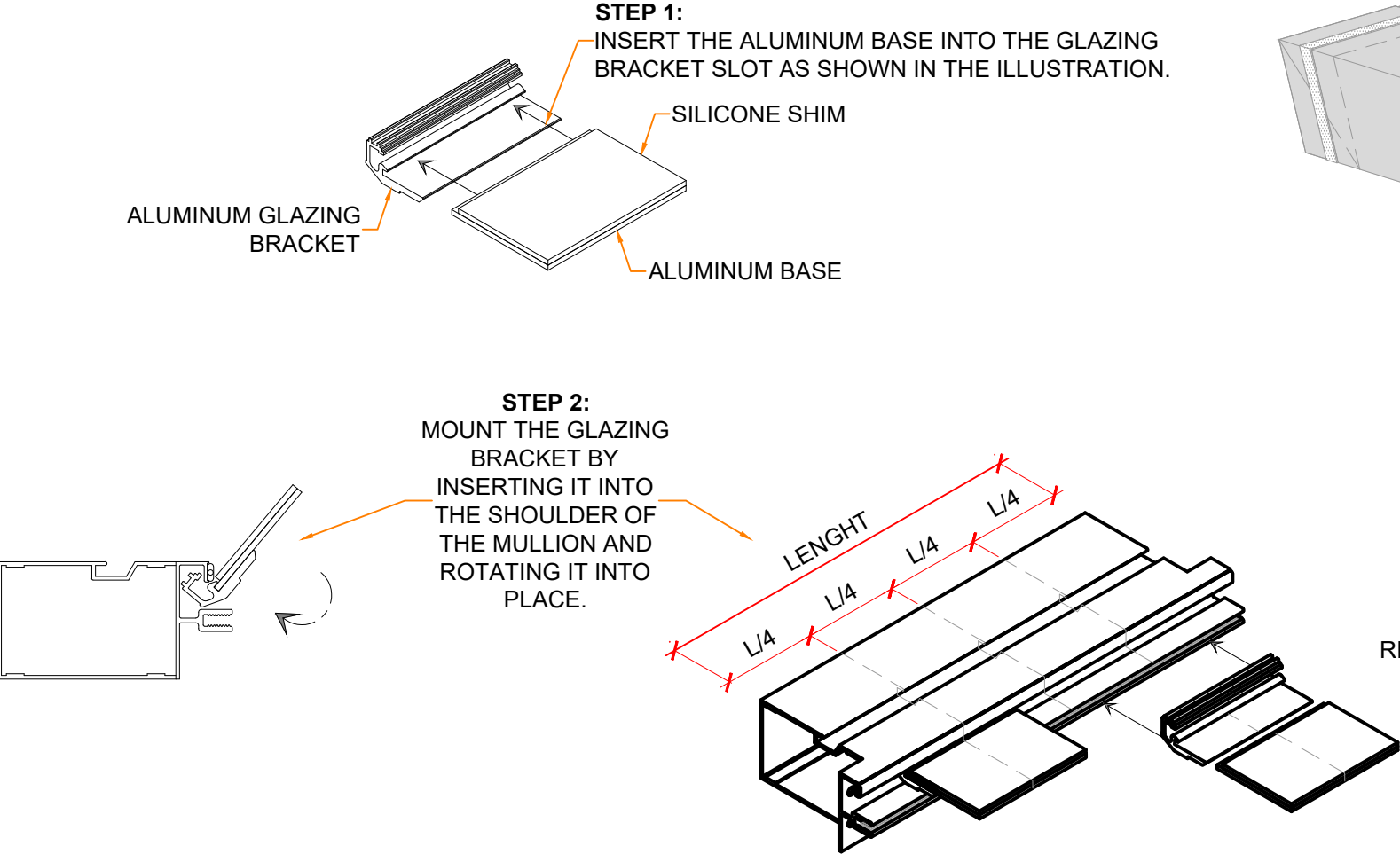


FIGURE 13: GLAZING BRACKET

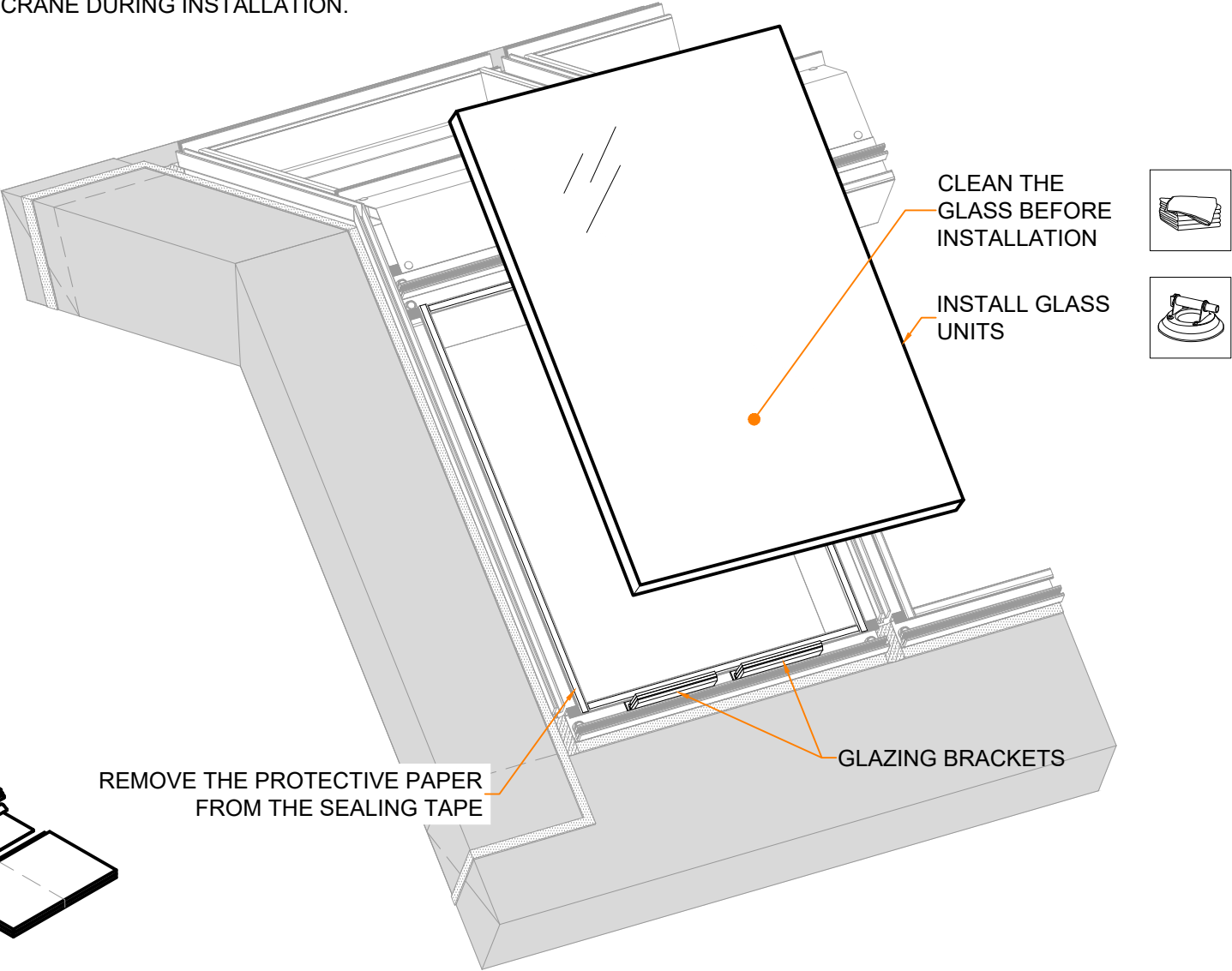


FIGURE 14: INSTALLING GLASS UNITS

INSTALLING TEMPORARY PRESSURE PLATES

INSTRUCTIONS:

1. PLACE RIGID INSULATION STRIPS ALONG THE EDGES OF THE GLASS TO GUARANTEE THE PROPER ALIGNMENT OF TEMPORARY PRESSURE PLATES DURING INSTALLATION. CREATE WATER DRAINAGE CHANNELS OPPOSITE TO EACH VERTICAL MULLION.
2. ATTACH THE TEMPORARY PRESSURE PLATES TO THE EDGES OF THE GLASS UNITS USING SCREWS TO SECURE THEM.

IMPORTANT:

THE GLAZIER MUST ENSURE THAT THE THERMAL INSULATION WINDOWS ARE FIRMLY SECURED UNTIL THE PERMANENT PRESSURE PLATES ARE INSTALLED. DO NOT RELY SOLELY ON THE NUMBER OF TEMPORARY PRESSURE PLATES DEPICTED.

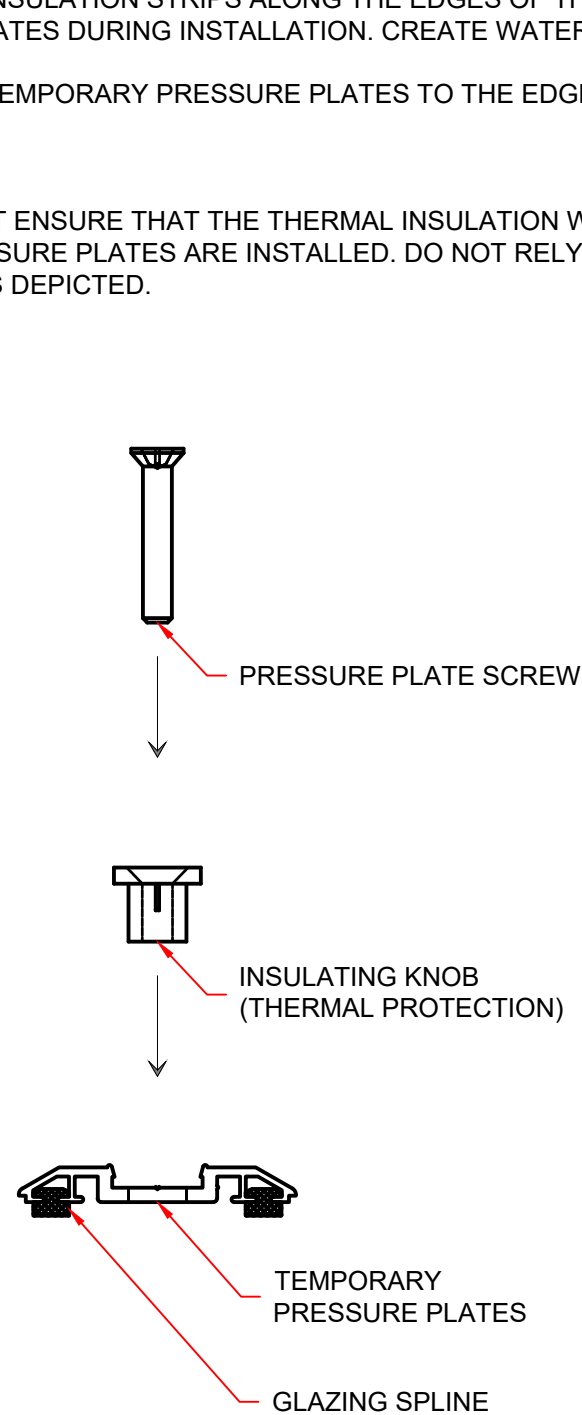


FIGURE 15: LIST OF TEMPORARY PRESSURE PLATE PARTS

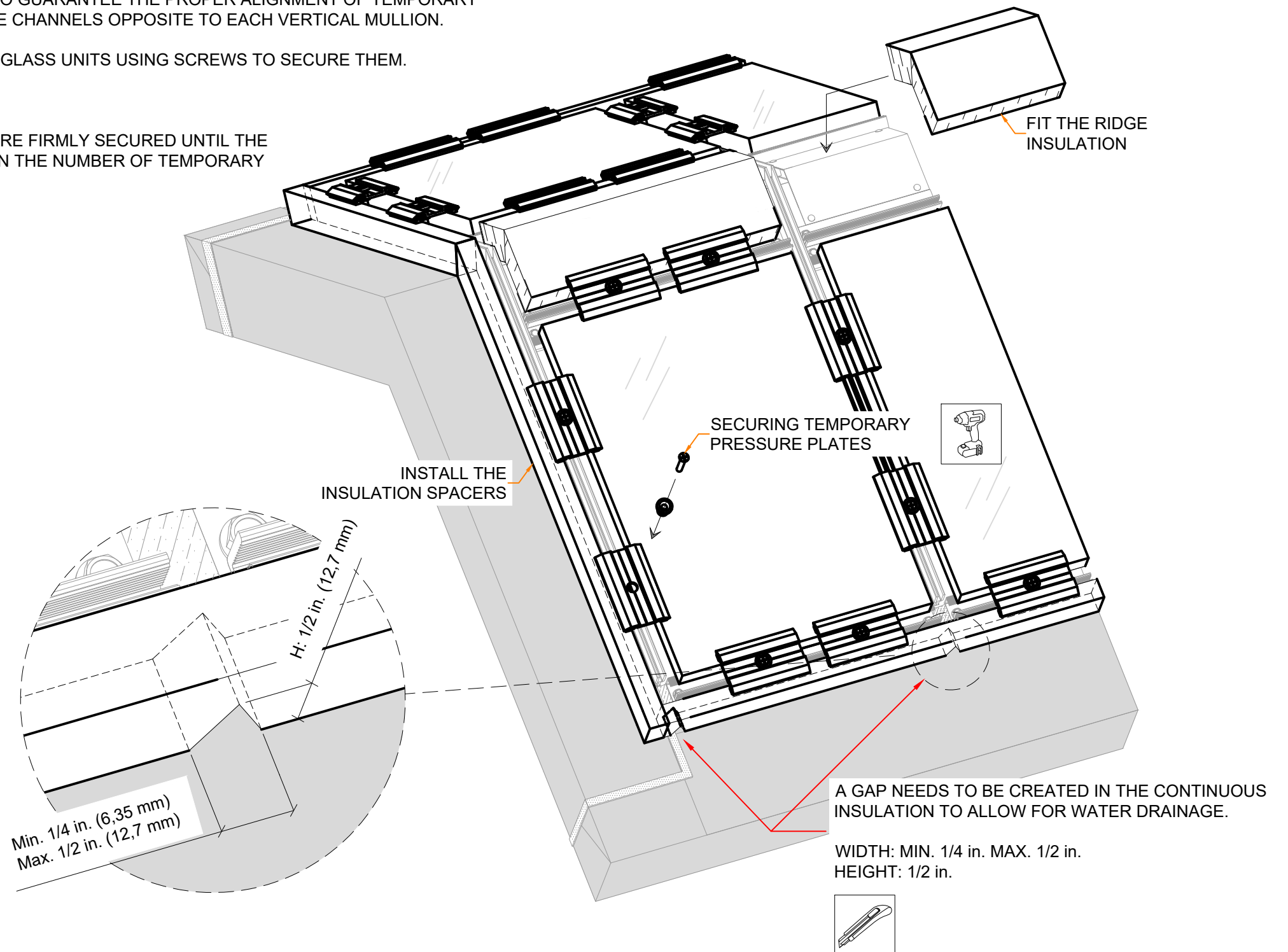


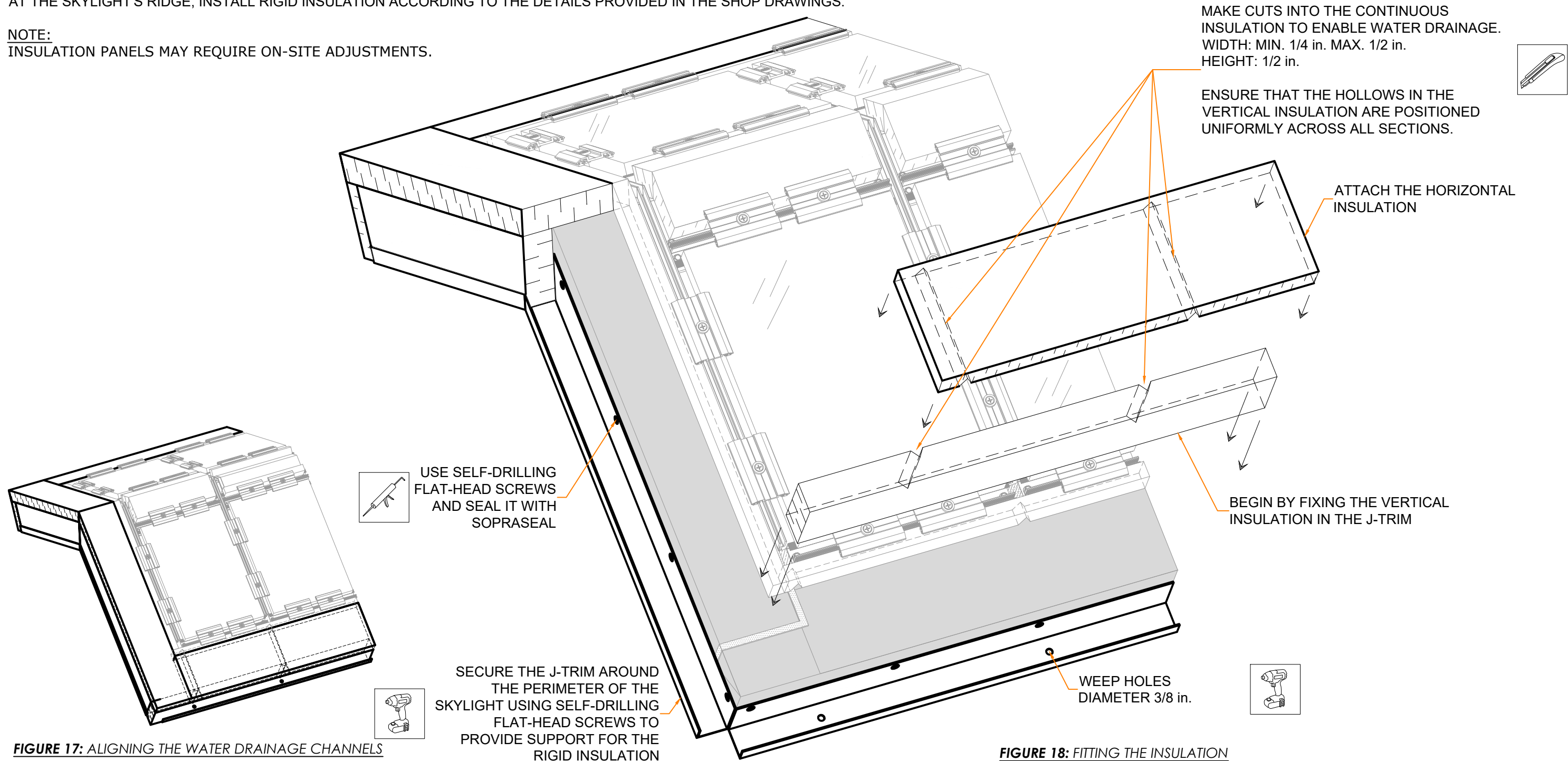
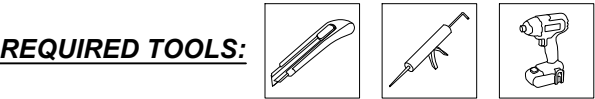
FIGURE 16: TEMPORARILY SECURING GLASS UNITS

INSTALLING RIGID INSULATION

INSTRUCTIONS:

1. ATTACH J-TRIM TO SECURE VERTICAL INSULATION IN PLACE. ENSURE THAT WEEP HOLES ARE POSITIONED ACROSS FROM THE VERTICAL MULLIONS TO FACILITATE EFFICIENT DRAINAGE OF WATER FROM THE CHANNELS.
 2. USE A RETRACTABLE KNIFE TO CREATE HOLLOWS IN THE RIGID INSULATION AS INDICATED BELOW.
 3. INSTALL THE RIGID INSULATION ACCORDING TO THE DETAILS PROVIDED IN THE SHOP DRAWINGS.
- AT THE SKYLIGHT'S RIDGE, INSTALL RIGID INSULATION ACCORDING TO THE DETAILS PROVIDED IN THE SHOP DRAWINGS.

NOTE:
INSULATION PANELS MAY REQUIRE ON-SITE ADJUSTMENTS.



INSTALLING THE EXTERIOR FINISH

INSTRUCTIONS:

REFER TO APPENDIX 3 IF YOU ARE INSTALLING A VISION 700HP HIGH-PERFORMANCE SKYLIGHT.

1. PLACE ALUMINUM FLASHING OVER THE EDGING INSULATION. BEGIN WITH THE FLASHING AT THE BOTTOM OF THE SKYLIGHT. IF REQUIRED, REMOVE THE TEMPORARY PRESSURE PLATES.
2. FIT THE PERMANENT PRESSURE PLATES AROUND THE SKYLIGHT'S PERIMETER.

NOTE:
ALUMINUM FLASHING MAY REQUIRE ON-SITE RESIZING.

REQUIRED TOOLS:

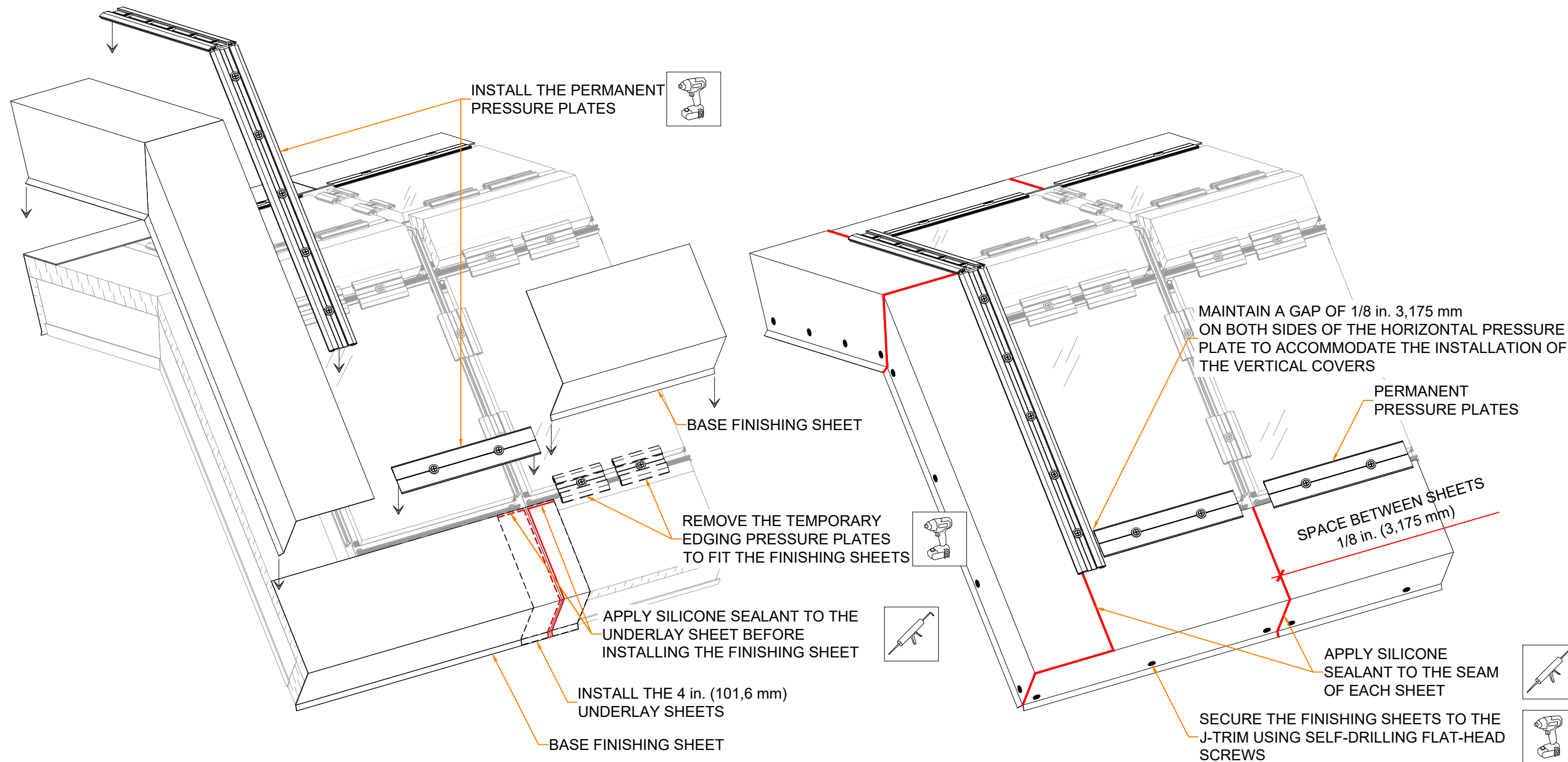
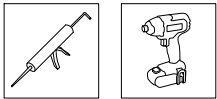





FIGURE 19: FITTING THE FINISHING SHEETS

FIGURE 20: SECURING PRESSURE PLATES TO PERIMETER AND APPLYING FINISHING SEALANTS

FITTING PRESSURE PLATES AND COVERS

REQUIRED TOOLS:



INSTRUCTIONS:

1. REPLACE TEMPORARY PRESSURE PLATES WITH PERMANENT PRESSURE PLATES.
2. APPLY SILICONE SEALANT TO THE SEAMS WHERE THE VERTICAL AND HORIZONTAL PRESSURE PLATES INTERSECT.
3. PLACE THE VERTICAL COVERS FIRST, FOLLOWED BY THE HORIZONTAL COVERS ACROSS THE ENTIRE SKYLIGHT.
4. APPLY A SILICONE SEALANT TO THE UPPER HORIZONTAL AND VERTICAL SECTIONS OF EACH MIDDLE AND BASE COVER TO HELP IMPROVE WATER FLOW OVER THESE AREAS.

NOTE:
CERTAIN COVERS MAY BE SEALED AND FINISHED AT ONE END. CONSULT THE SHOP DRAWINGS TO IDENTIFY THEM. IT'S ADVISABLE TO USE A RUBBER Mallet TO AVOID DAMAGING THE ALUMINUM OR THE PAINT ON THE COVERS.

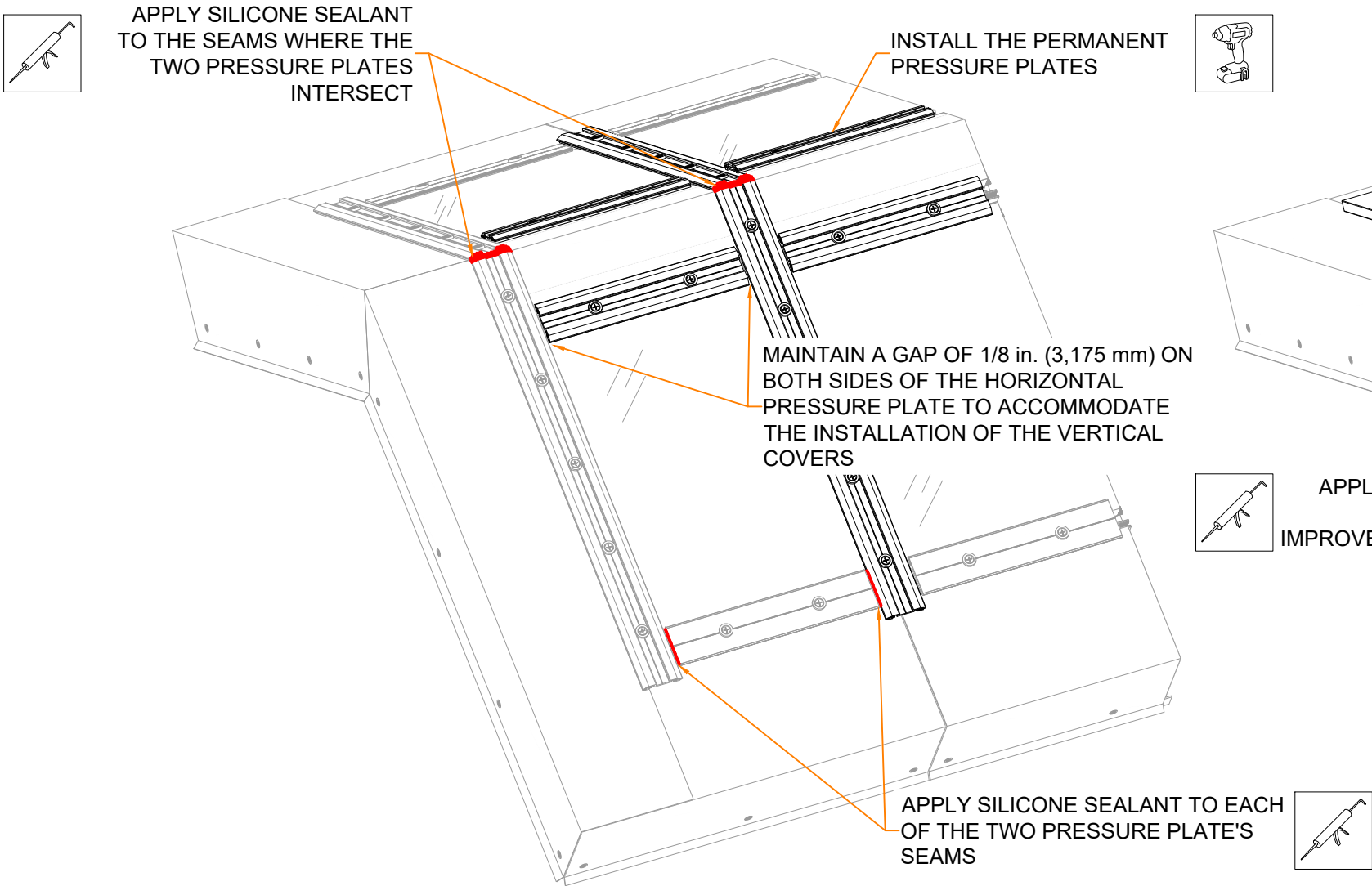


FIGURE 21: INSTALLING AND SEALING THE PRESSURE PLATES

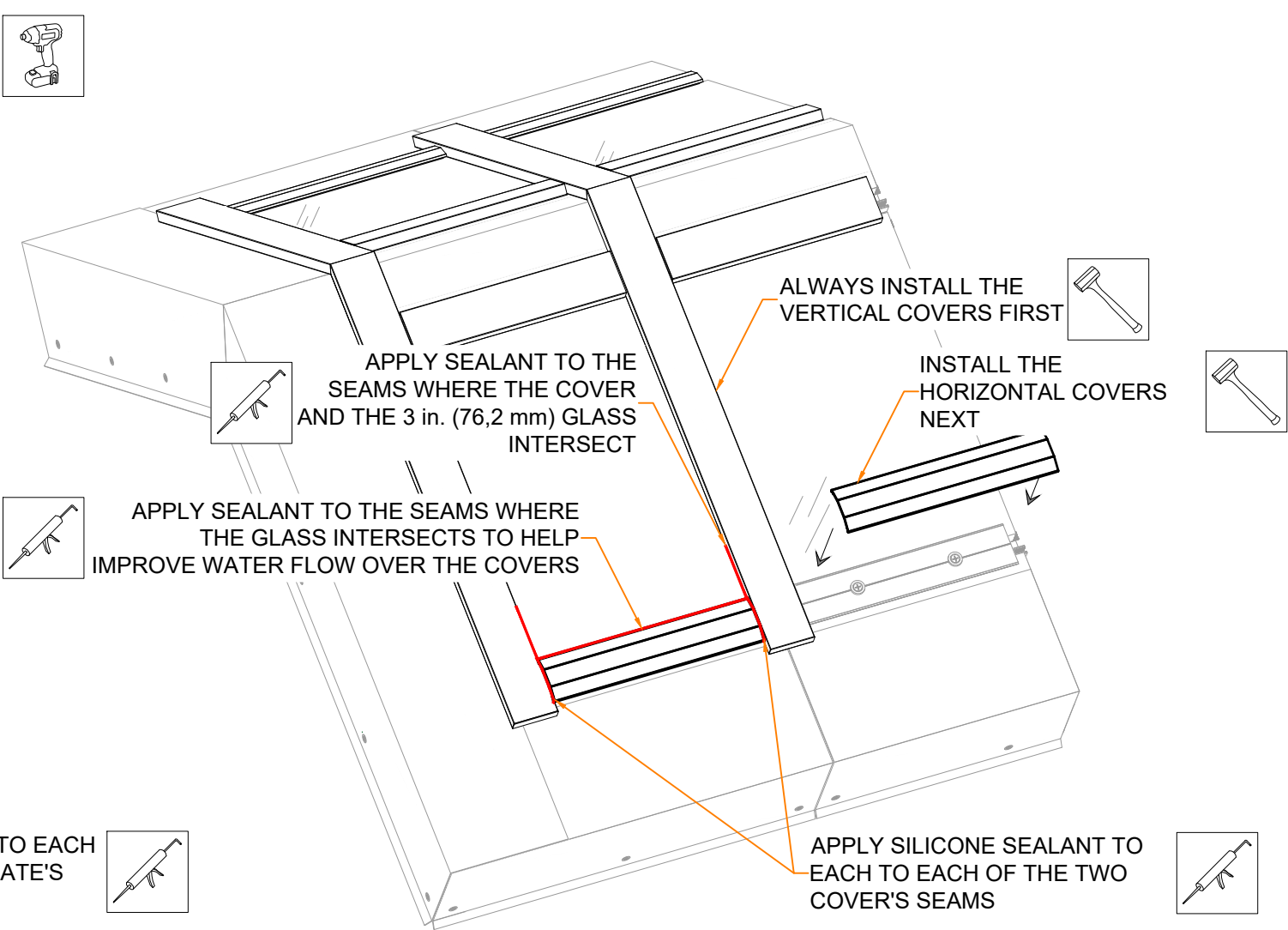


FIGURE 22: INSTALLING THE COVERS

INSTALLING RIDGE FLASHING

INSTRUCTIONS:

- 1. INSTALL THE FLASHING ALONG THE RIDGE OF THE SKYLIGHT AND ADJUST ITS SIZE AS REQUIRED.
- 2. SECURE THE FLASHING TO THE SNAP-ON COVERS WITH POP RIVETS.

REQUIRED TOOLS:



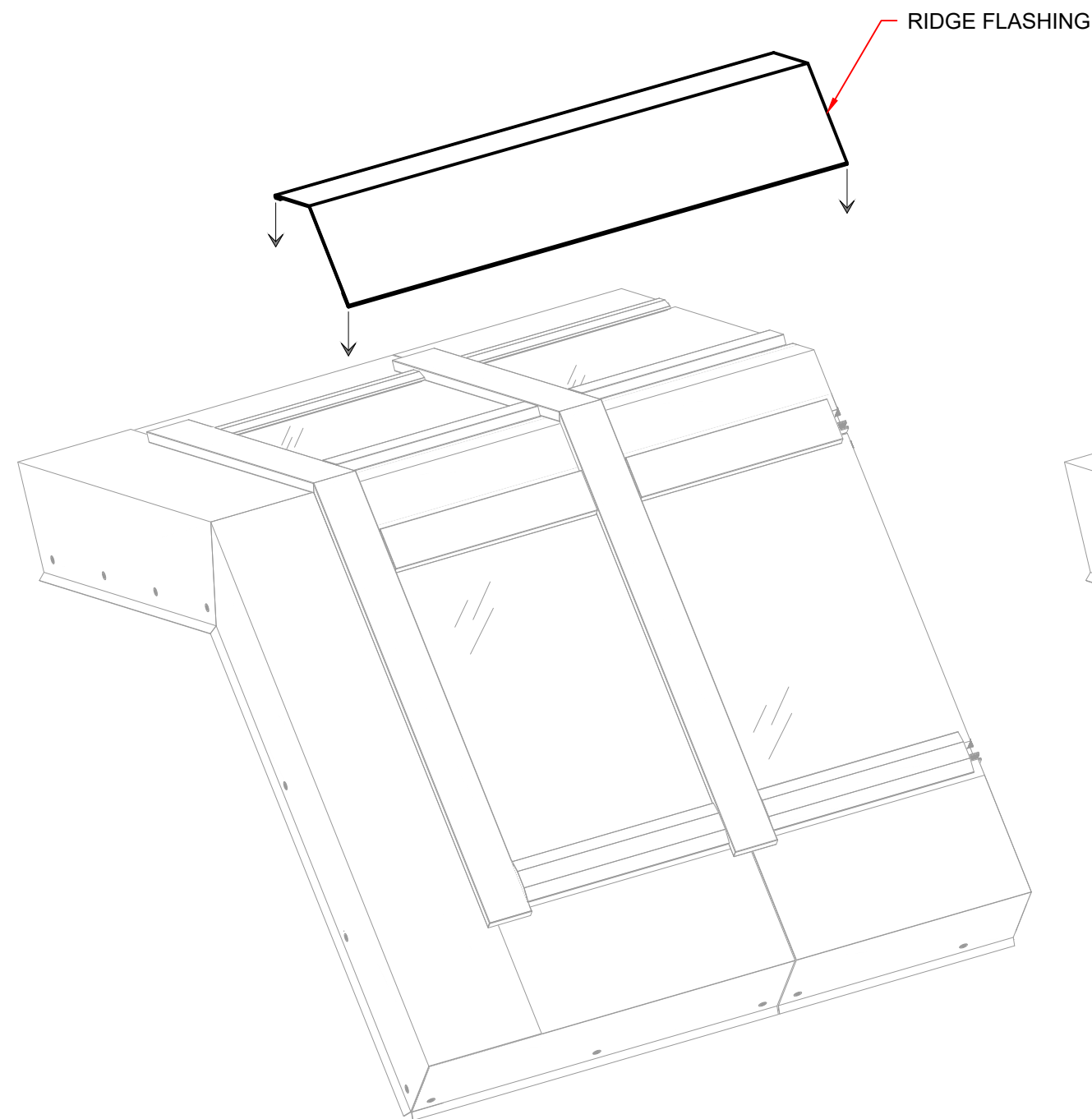


FIGURE 23: FITTING THE RIDGE CAPS

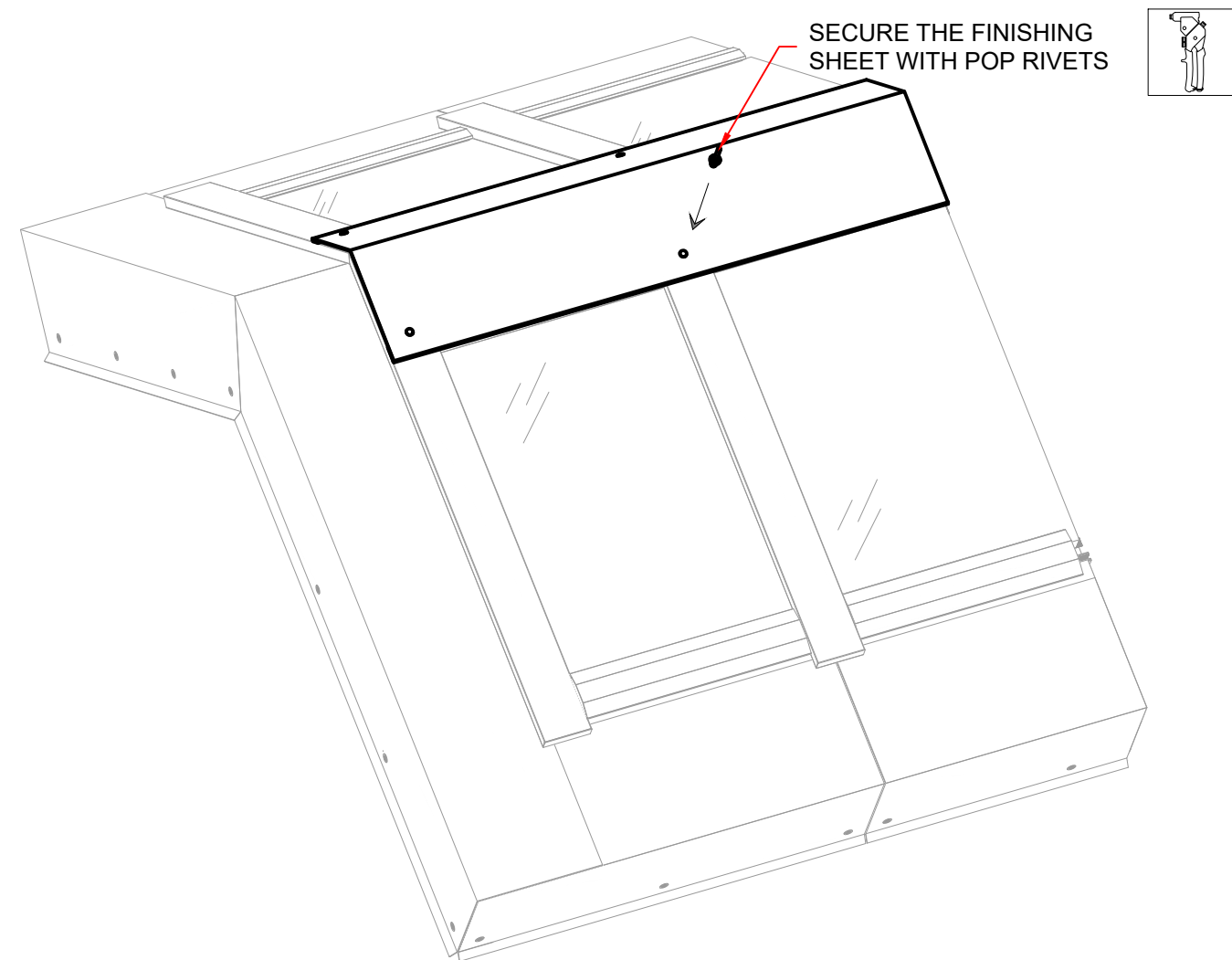




FIGURE 24: SECURING THE RIDGE CAPS

APPENDIX 1: COMPRESSION RINGS

REQUIRED TOOLS:



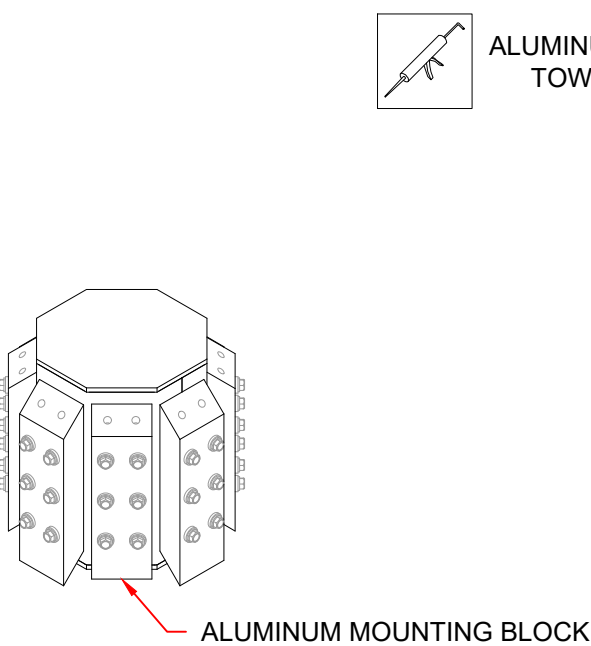


FIGURE 25: CR88 COMPRESSION RING FOR 8 MULLIONS

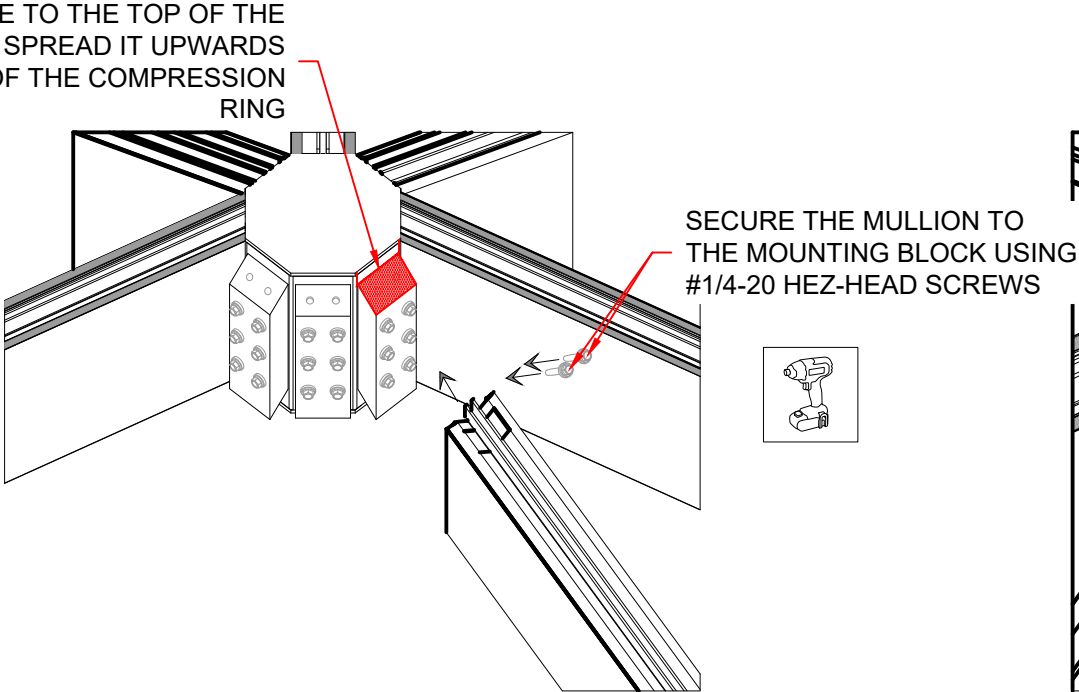


FIGURE 26: PLACING THE MULLION ONTO THE COMPRESSION RING'S ALUMINUM MOUNTING BLOCK

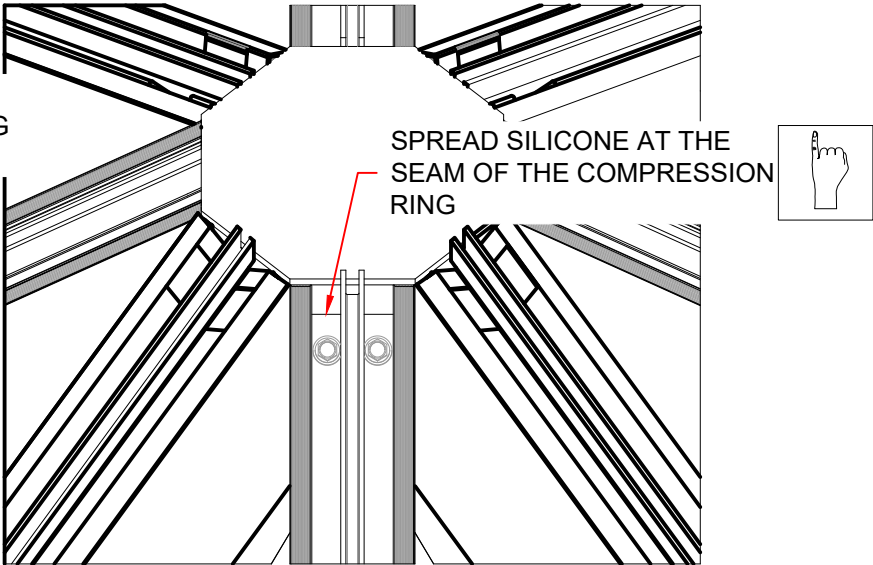


FIGURE 27: FINISHING THE COMPRESSION RING

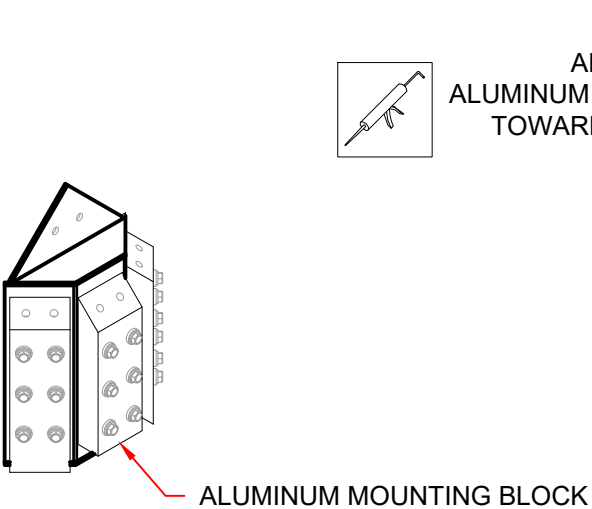


FIGURE 28: CR83 COMPRESSION RING FOR 3 MULLIONS

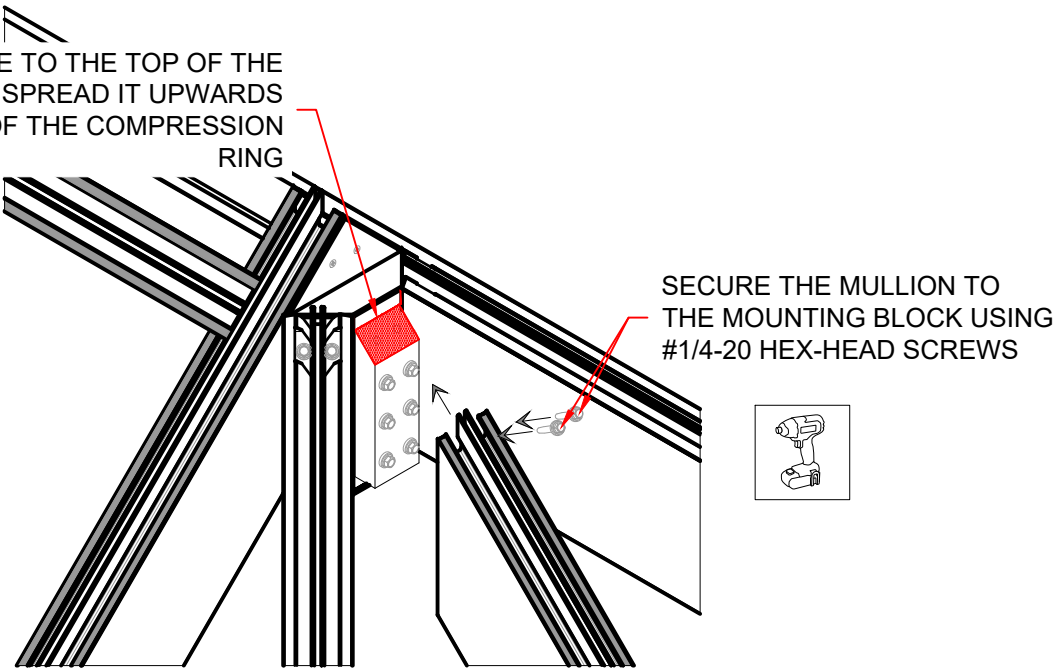


FIGURE 29: PLACING THE MULLION ONTO THE COMPRESSION RING'S ALUMINUM MOUNTING BLOCK

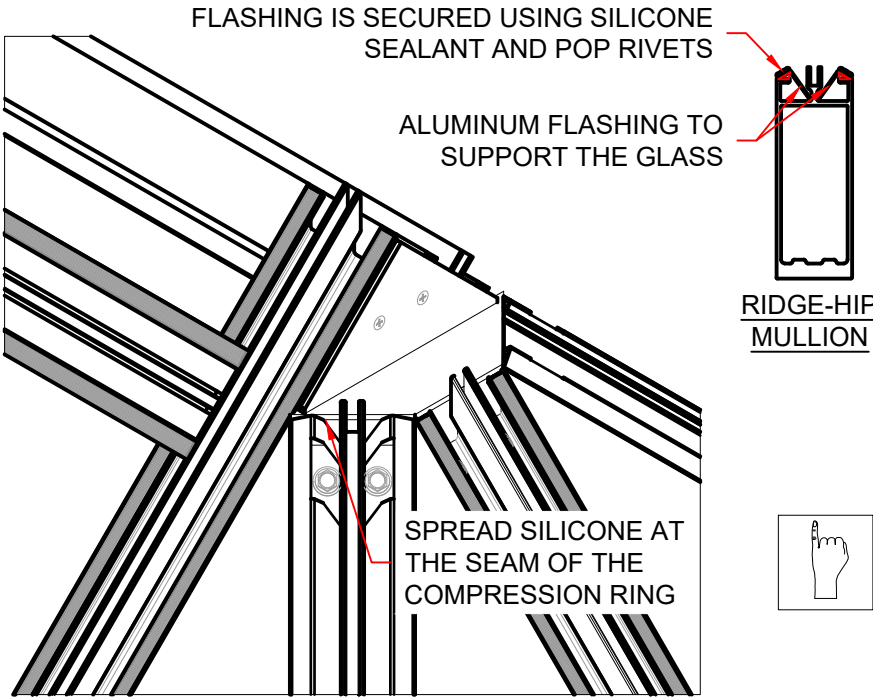
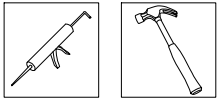


FIGURE 30: FINISHING THE COMPRESSION RING

APPENDIX 2: PYRAMID SKYLIGHT

REQUIRED TOOLS:



INSTRUCTIONS:

1. CONNECT THE RIDGE-HIP MULLIONS AND THE VERTICAL MULLIONS TO THE COMPRESSION RING, AS SHOWN ON THE PREVIOUS PAGE.
2. ATTACH THE GUTTERS TO THE VERTICAL MULLIONS FOLLOWING THE INSTRUCTIONS OUTLINED ON PAGE OF THE INSTALLATION GUIDE.
3. TO LINK THE GUTTERS TO THE RIDGE-HIP MULLIONS, REFER TO THE STEPS ILLUSTRATED BELOW.

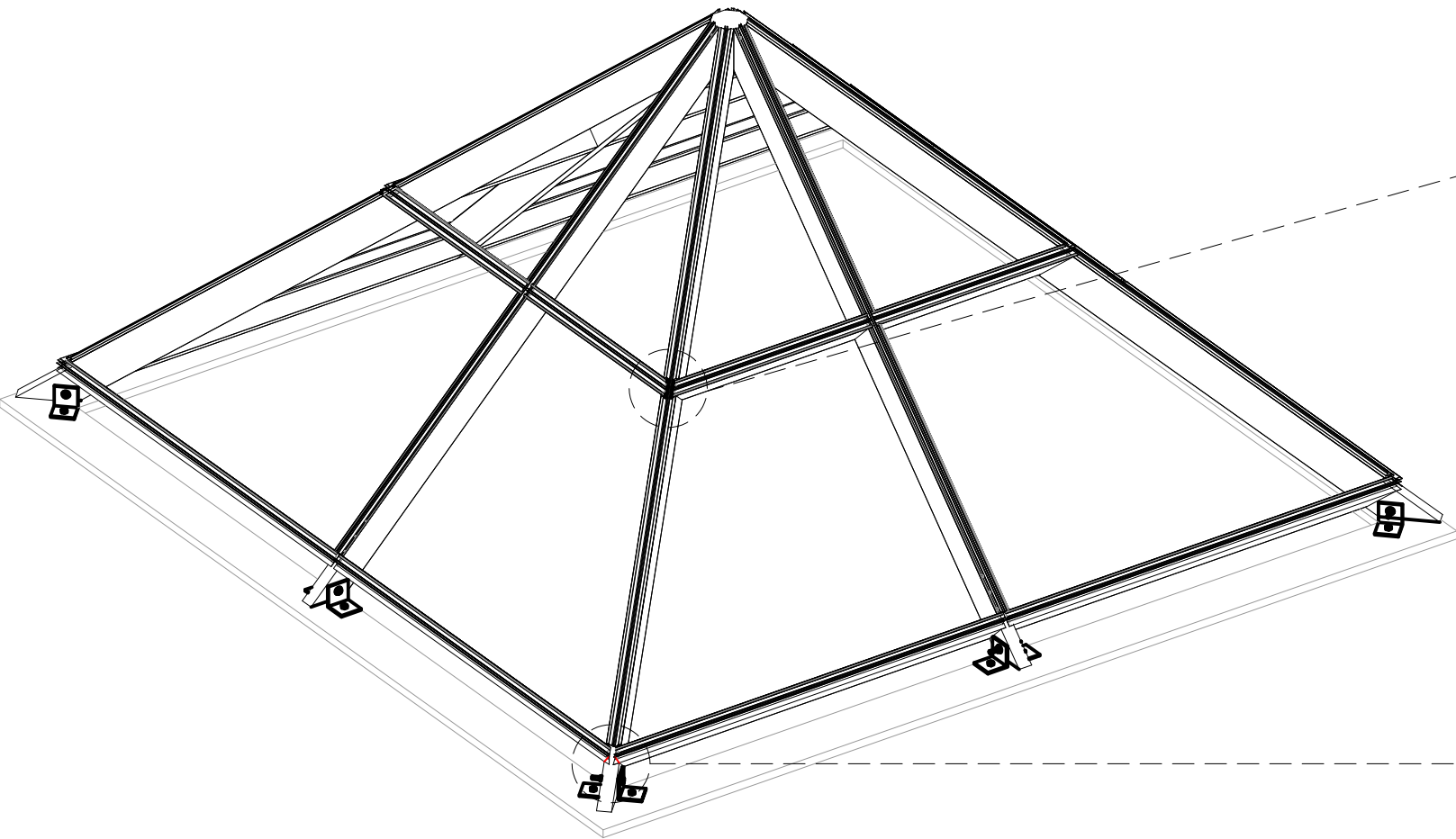


FIGURE 31: PYRAMID SKYLIGHT

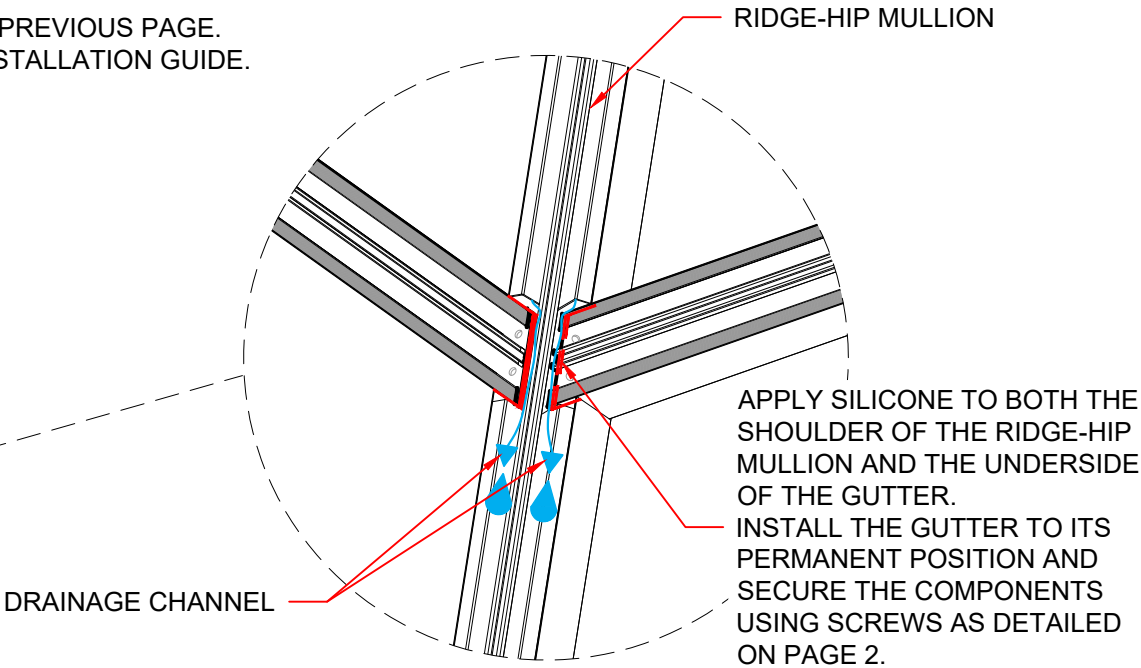


FIGURE 32: CONNECTING THE CENTER GUTTERS AND THE RIDGE-HIP MULLIONS

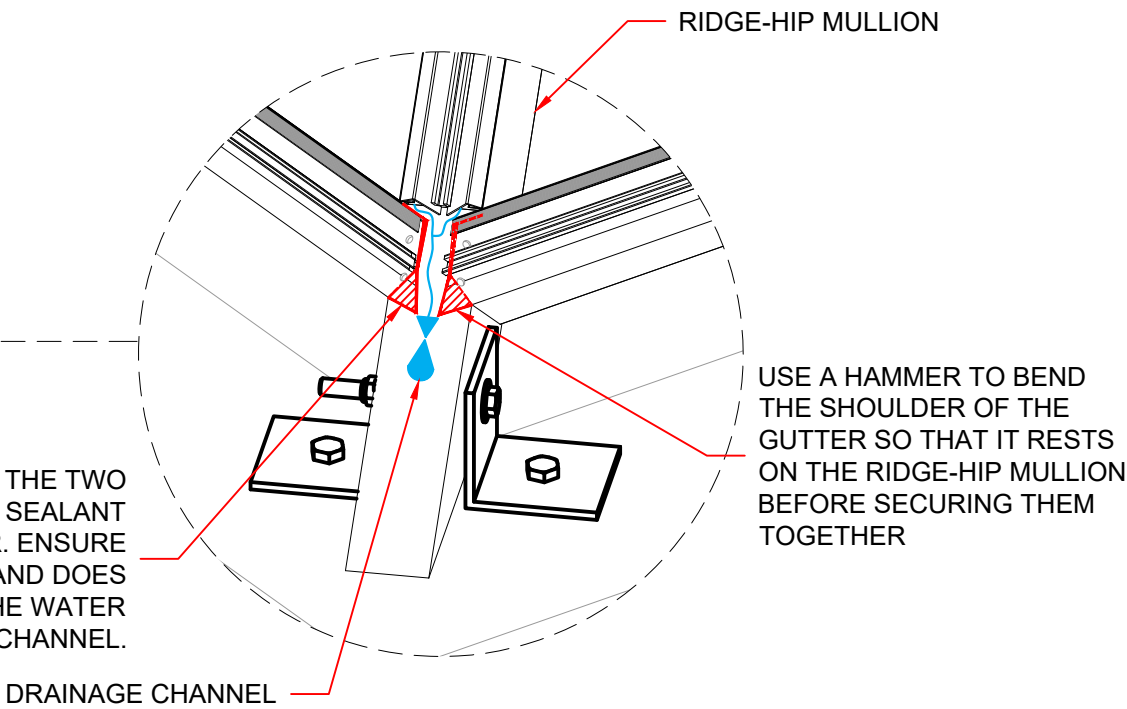


FIGURE 33: CONNECTION OF THE TRIMMED GUTTERS AND HIP MULLIONS

APPLY SEALANT BETWEEN THE TWO ALUMINUM SURFACES. ALSO APPLY SEALANT AROUND THE EDGE OF THE GUTTER. ENSURE THE SILICONE IS EVENLY SPREAD AND DOES NOT OBSTRUCT THE WATER DRAINAGE CHANNEL.



APPENDIX 3:

HIGH PERFORMANCE SKYLIGHT - VISION 700HP

REQUIRED TOOLS:



INSTRUCTIONS:

1. REMOVE THE TEMPORARY PRESSURE PLATES.
2. INSTALL THE THERMAL BARRIERS ON ALL SKYLIGHT SHAFTS (CUT-OUTS MAY BE REQUIRED FOR THE THERMAL INSULATION WINDOW SUPPORTS).
3. PROCEED WITH THE INSTALLATION PROCESS AS OUTLINED IN STEP 9 AND ONWARD.

NOTE:
THE LENGTH OF THE THERMAL BARRIERS MAY REQUIRE ON-SITE ADJUSTMENTS.

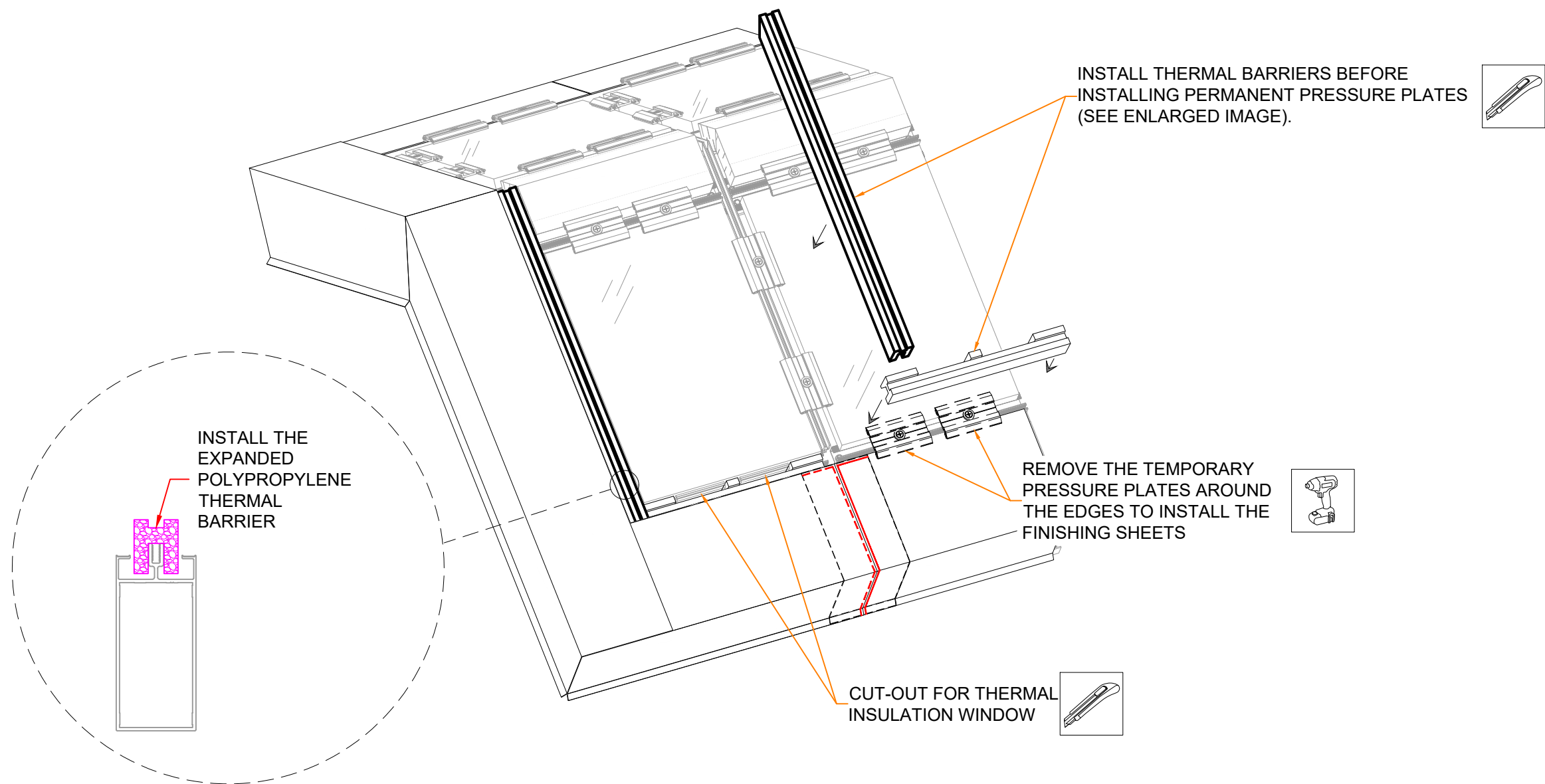


FIGURE 34: INSERTING THERMAL BARRIERS