

DUO-GARD

TOGETHER BY DESIGN.™



SERIES 1000

VERTICAL APPLICATIONS

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SERIES 1000[®]

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INSTALL GUIDELINES

Before you begin working with the Series 1000 system, familiarize yourself with the installation guidelines below.

RECOMMENDED TOOLS FOR INSTALLATION:

1. POWER MITER SAW

- NEGATIVE 6 DEGREE CARBIDE TIP NON-FERROUS METAL CUTTING BLADE FOR ALUM. CHANNELS

2. DRILL MOTOR

- 1/4" DRILL BIT FOR MOUNTING HOLES

3. SCREW GUN

- 1/4" DRILL BIT AND 5/16" HEX BIT REQUIRED

4. CIRCULAR SAW (MIN. 7-1/4")

- FINE TOOTH PLYWOOD CUTTING BLADE FOR POLYCARBONATE

5. CAULKING GUN

6. AIR COMPRESSOR WITH BLOW GUN

7. UTILITY KNIFE

8. SEALANT BY SOLAR SEAL

9. SHIM MATERIALS

- ALUMINUM, EPDM/HEAVY DUROMETER RUBBER OR WOOD (WOOD ONLY IF PERMITTED BY CODE)

MATERIAL DELIVERY, UNLOADING, AND STORAGE:

- MATERIAL IS TYPICALLY DELIVERED IN CUSTOM BUILT OPEN FRAMED WOOD CRATES. LENGTH WILL VARY, BUT TYPICAL CRATE IS 12' TO 20' LONG.
- A FORKLIFT IS RECOMMENDED FOR OFF LOADING CRATES.
- ALUMINUM SHOULD BE STORED IN A SECURE LOCATION.
- POLYCARBONATE SHALL BE TARPED TO PROTECT FROM CONSTRUCTION DEBRIS AND DUST.
- **DO NOT** STORE POLYCARBONATE IN DIRECT HEAT OR SUNLIGHT.
- REMOVE PLASTIC FILM FROM POLYCARBONATE SURFACES PRIOR TO INSTALLATION.
- VERIFY UV RATED SIDE OF POLYCARBONATE FACES EXTERIOR.

NORMAL MAINTENANCE:

- DO NOT USE AMMONIA BASED CLEANING PRODUCTS ON ANY POLYCARBONATE SURFACE
- WASH WITH A MILD SOAP OR DETERGENT
- USE A SPONGE OR SOFT CLOTH
- RINSE WITH CLEAN WATER

TIPS:

- AFTER DRILLING, REMOVE SHAVINGS FROM EDGE SASH.
- SALVAGE ALL CUT OFF ALUMINUM EXTRUSION LENGTHS FOR POSSIBLE INSTALLATION ELSEWHERE.
- WHEN CUTTING ALUMINUM, USE A WAX STICK TO LUBRICATE SAW BLADE.

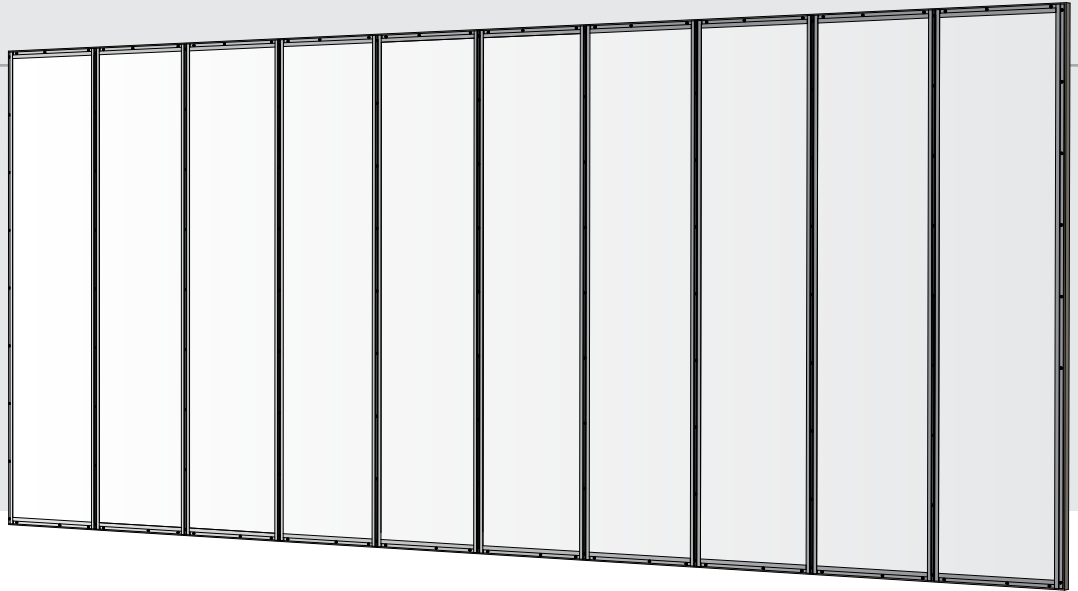
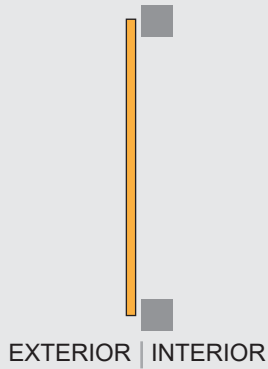
**CONSULT DUO-GARD WITH ANY QUESTIONS REGARDING THE CONTENT OF THESE INSTALLATION DOCUMENTS
DO NOT DEVIATE FROM INSTALLATION INSTRUCTIONS**

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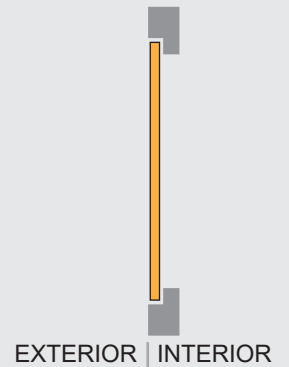
BASIC MOUNTING TYPES

The Series 1000 system can mount to a frame in different ways depending on site conditions.

Face Mounted



Flush Mounted



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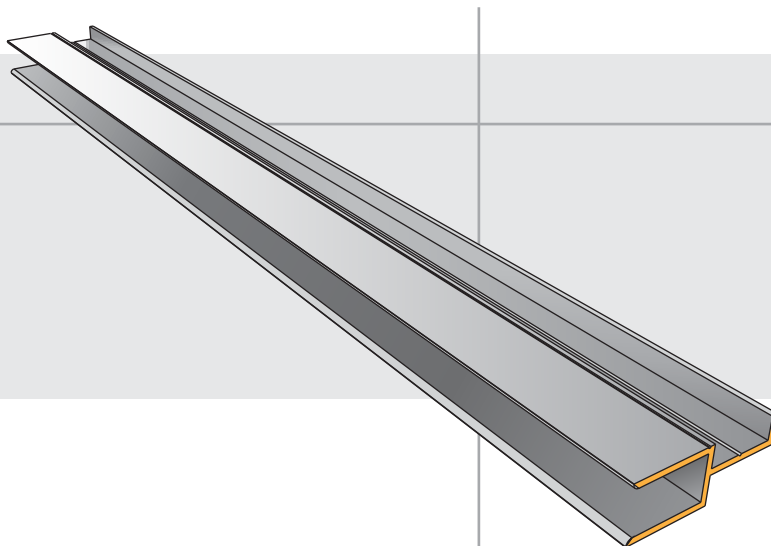
STANDARD PROFILES

The Series 1000 system is composed of only one standard profile. A variety of framing profiles are also available.

I-10

Aluminum Edge Sash

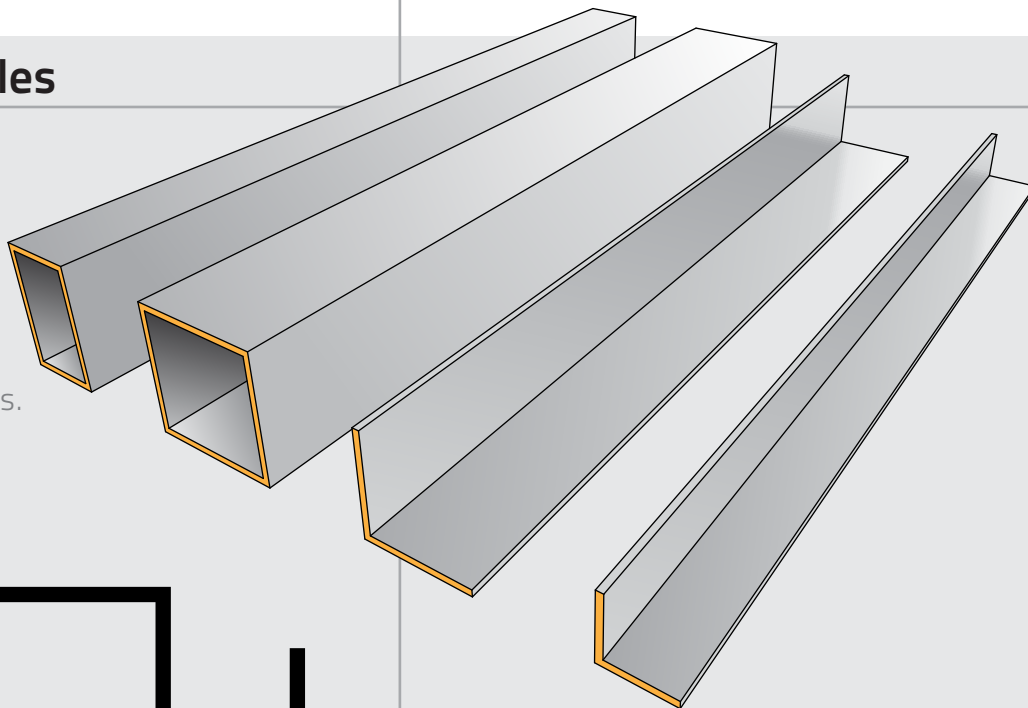
- Stock Length 192"
- Straight cut all corners



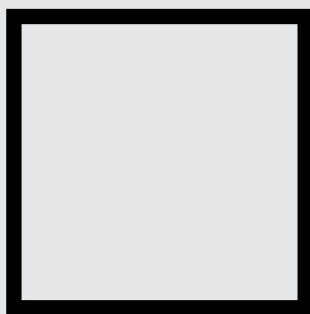
Optional Framing Profiles

Aluminum Profiles

- Additional profiles are available to provide a suitable mounting frame when necessary.
- Contact Duo-Gard to discuss your framing options and questions.
- Optional framing profiles are sold separately.



1-1/2" x 2-1/2" x 1/8"
Aluminum Tube



2-1/2" x 2-1/2" x 1/8"
Aluminum Tube



2" x 2" x 1/8"
Aluminum Angle



1-1/4" x 1-1/4" x 1/8"
Aluminum Angle

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FACE MOUNT DETAILS

The Series 1000 system can mount on the face of a structure using the details shown below.

*NOTE: MOUNTING FASTENERS

STEEL: #12 x 2" HWH TEK 5 SCREW

ALUM: #12 x 1" HWH TEK 3 SCREW

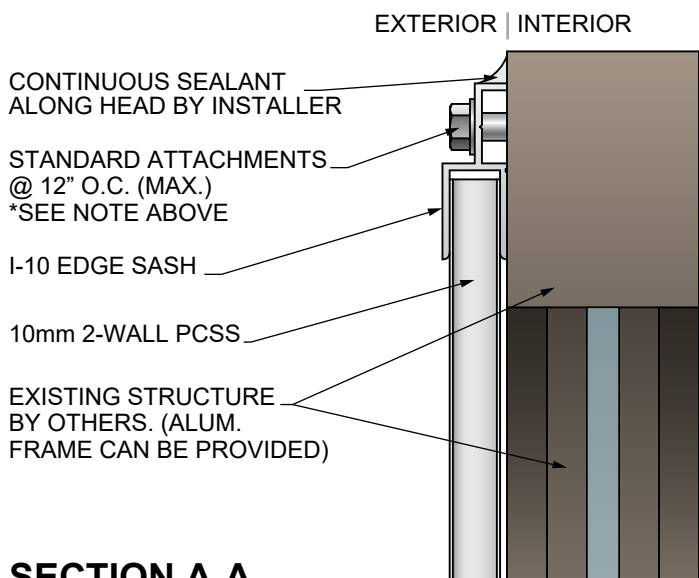
WOOD: 1/4" x 2" LAG SCREW

ALL REQUIRE 9/16" O.D. NEOPRENE WASHERS
(2) LOCATED EVERY 18" O.C., U.N.O.

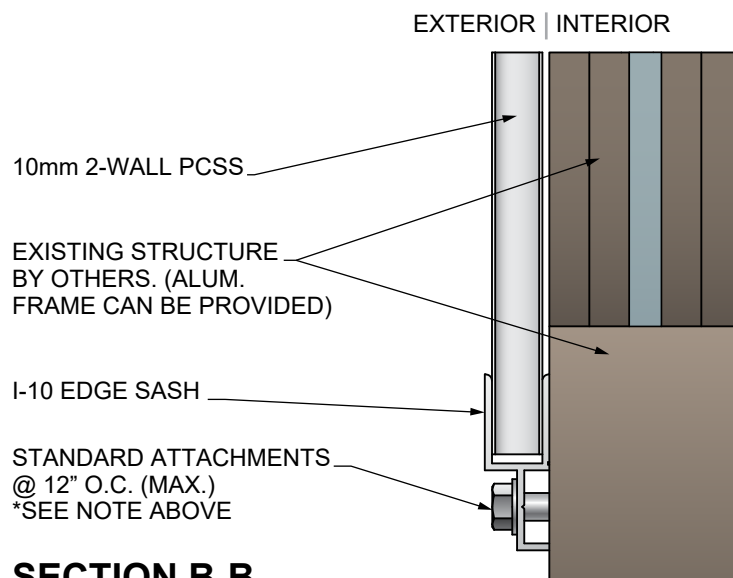
**MOUNTING FASTENERS ARE SOLD SEPARATELY
(NOT INCLUDED WITH CHANNELS)**



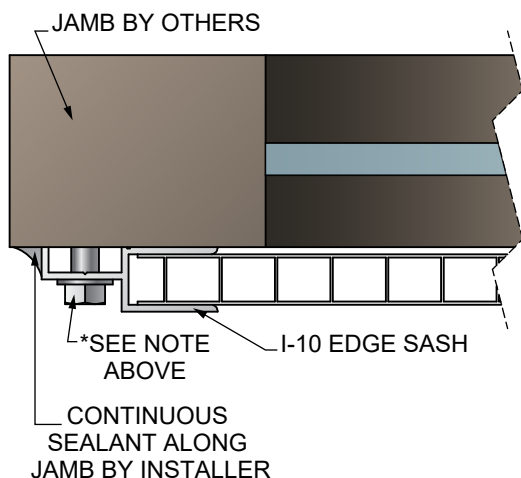
DETAIL LOCATION KEY
(SYSTEM FRONT VIEW)



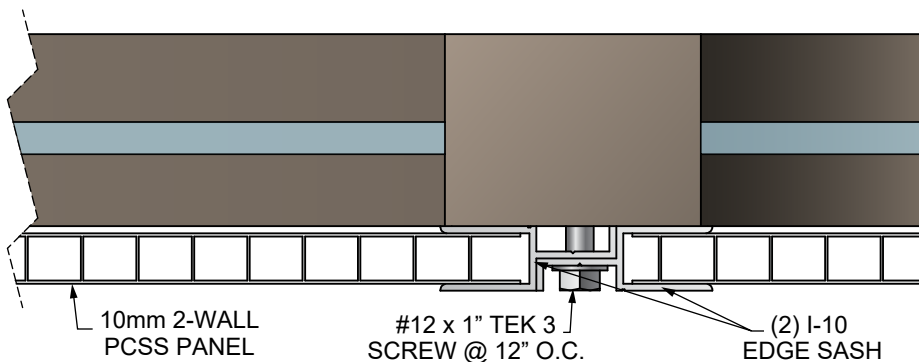
SECTION A-A



SECTION B-B



SECTION C-C



SYSTEM SHOWN ATTACHING DIRECTLY TO EXISTING STRUCTURE IN ALL VIEWS. SEE SHEET 7 FOR MOUNTING VARIATIONS.

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FLUSH MOUNT DETAILS

The Series 1000 system can mount flush to the face of a structure using the details shown below.

*NOTE: MOUNTING FASTENERS

STEEL: #12 x 2" HWH TEK 5 SCREW

ALUM: #12 x 1" HWH TEK 3 SCREW

WOOD: 1/4" x 2" LAG SCREW

ALL REQUIRE 9/16" O.D. NEOPRENE WASHERS
(2) LOCATED EVERY 18" O.C., U.N.O.

**MOUNTING FASTENERS ARE SOLD SEPARATELY
(NOT INCLUDED WITH CHANNELS)**



DETAIL LOCATION KEY
(SYSTEM FRONT VIEW)

EXTERIOR | INTERIOR

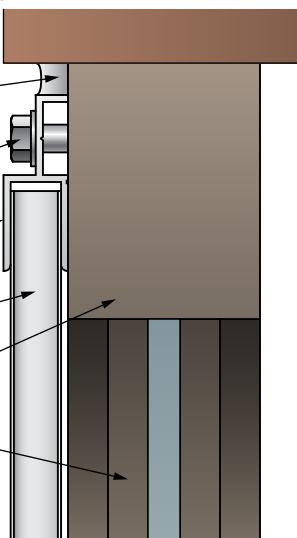
CONTINUOUS SEALANT
ALONG HEAD BY INSTALLER

STANDARD ATTACHMENTS
@ 12" O.C. (MAX.)
*SEE NOTE ABOVE

I-10 EDGE SASH

10mm 2-WALL PCSS

EXISTING STRUCTURE
BY OTHERS. (ALUM.
FRAME CAN BE PROVIDED)



SECTION A-A

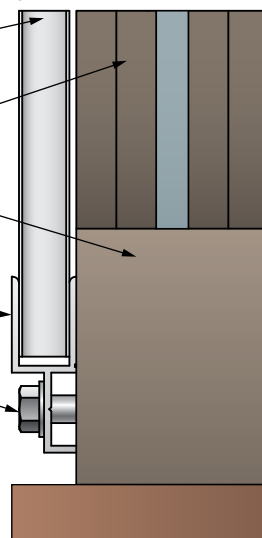
EXTERIOR | INTERIOR

10mm 2-WALL PCSS

EXISTING STRUCTURE
BY OTHERS. (ALUM.
FRAME CAN BE PROVIDED)

I-10 EDGE SASH

STANDARD ATTACHMENTS
@ 12" O.C. (MAX.)
*SEE NOTE ABOVE



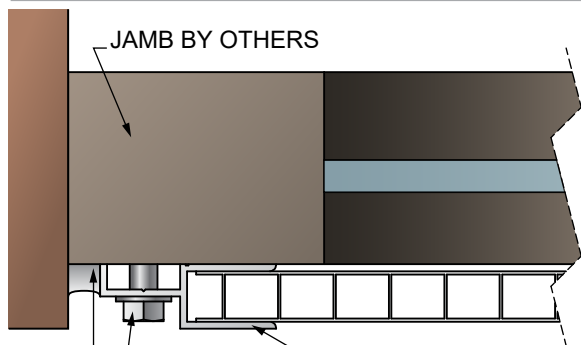
SECTION B-B

JAMB BY OTHERS

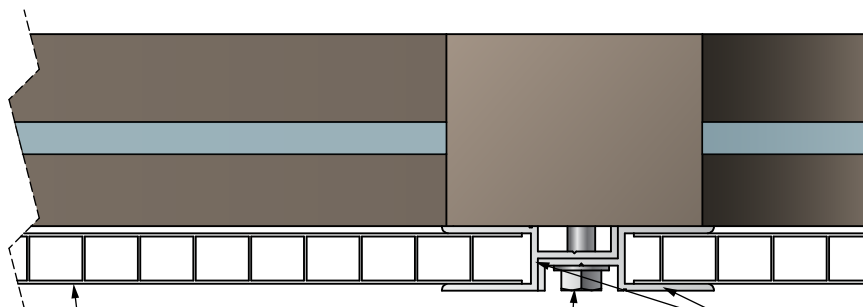
*SEE NOTE
ABOVE

CONTINUOUS
SEALANT ALONG
JAMB BY INSTALLER

I-10 EDGE SASH



SECTION C-C



10mm 2-WALL
PCSS PANEL

#12 x 1" TEK 3
SCREW @ 12" O.C.

(2) I-10
EDGE SASH

SYSTEM SHOWN ATTACHING DIRECTLY TO EXISTING STRUCTURE IN ALL VIEWS. SEE SHEET 7 FOR MOUNTING VARIATIONS.

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MOUNTING VARIATIONS

The Series 1000 system can mount to an existing structure in different ways depending on site conditions.

THE SERIES 1000 SYSTEM CAN ATTACH DIRECTLY TO AN EXISTING STRUCTURE OR WINDOW SASH.

WHEN DIRECT ATTACHMENT IS NOT POSSIBLE, ADDITIONAL MATERIAL MAY BE REQUIRED TO PROVIDE A SUITABLE MOUNTING SURFACE.

THE DETAILS BELOW SHOW SOME EXAMPLES OF HOW THE SERIES 1000 SYSTEM CAN MOUNT TO A STRUCTURE.

THE DETAILS BELOW ARE MEANT TO BE USED AS AN EXAMPLE ONLY. IT IS UP TO THE INSTALLER TO ENSURE THAT SYSTEM IS PROPERLY ATTACHED.

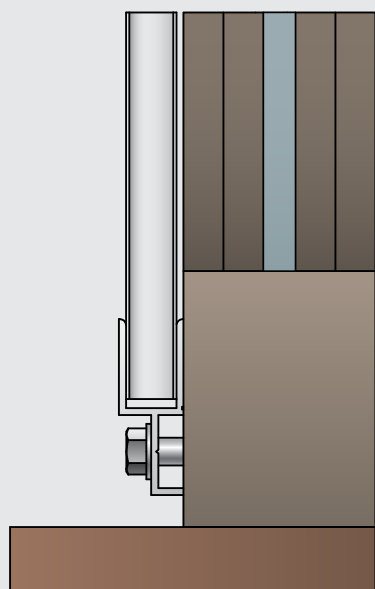


DETAIL LOCATION KEY
(SYSTEM FRONT VIEW)

MOUNTING VARIATIONS

ALL DETAILS BELOW REPRESENT VARIATIONS OF SECTION VIEW (A-A) ABOVE

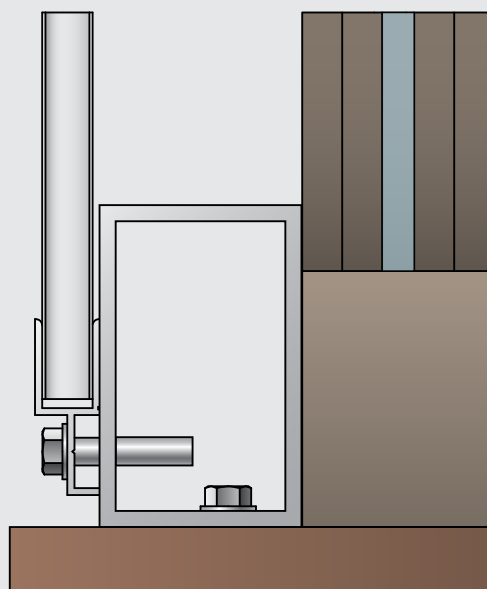
EXTERIOR | INTERIOR



DIRECT MOUNTING

- SYSTEM MOUNTS DIRECTLY TO EXISTING STRUCTURE.
- NO ADDITIONAL FRAMING COMPONENTS ARE REQUIRED.
- CONSIDERED STANDARD MOUNTING CONDITION FOR SERIES 1000

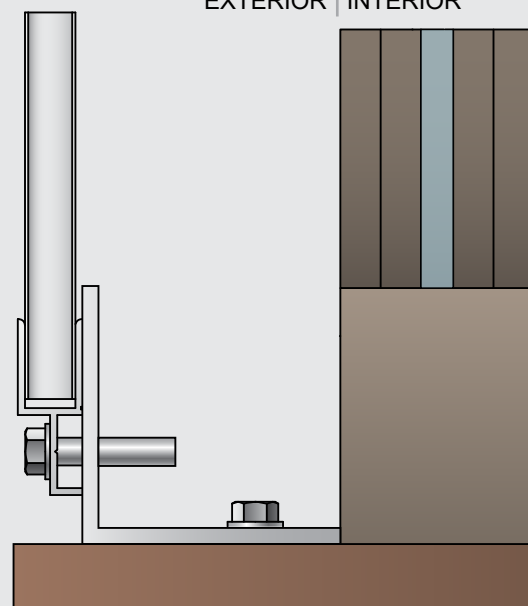
EXTERIOR | INTERIOR



TUBE FRAME MOUNTING

- SYSTEM MOUNTS TO ALUMINUM TUBE FRAME. TUBE FRAME IS MOUNTED TO STRUCTURE.
- AVAILABLE TUBE SIZES:
 - 1-1/2" x 2-1/2" x 1/8"
 - 2-1/2" x 2-1/2" x 1/8"
- TUBE IS SOLD SEPARATELY

EXTERIOR | INTERIOR



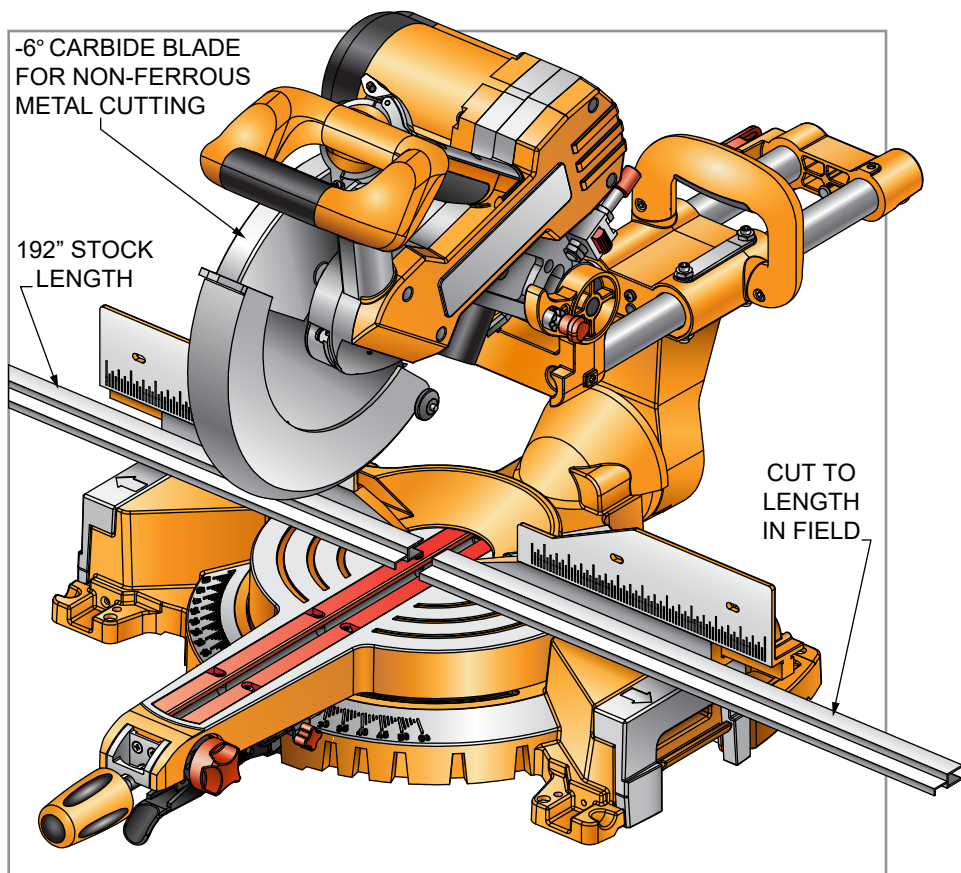
ANGLE FRAME MOUNTING

- SYSTEM MOUNTS TO ALUMINUM ANGLE FRAME. ANGLE FRAME IS MOUNTED TO STRUCTURE.
- AVAILABLE ANGLE SIZES:
 - 2" x 2" x 1/8"
 - 1-1/4" x 1-1/4" x 1/8"
- ANGLE IS SOLD SEPARATELY

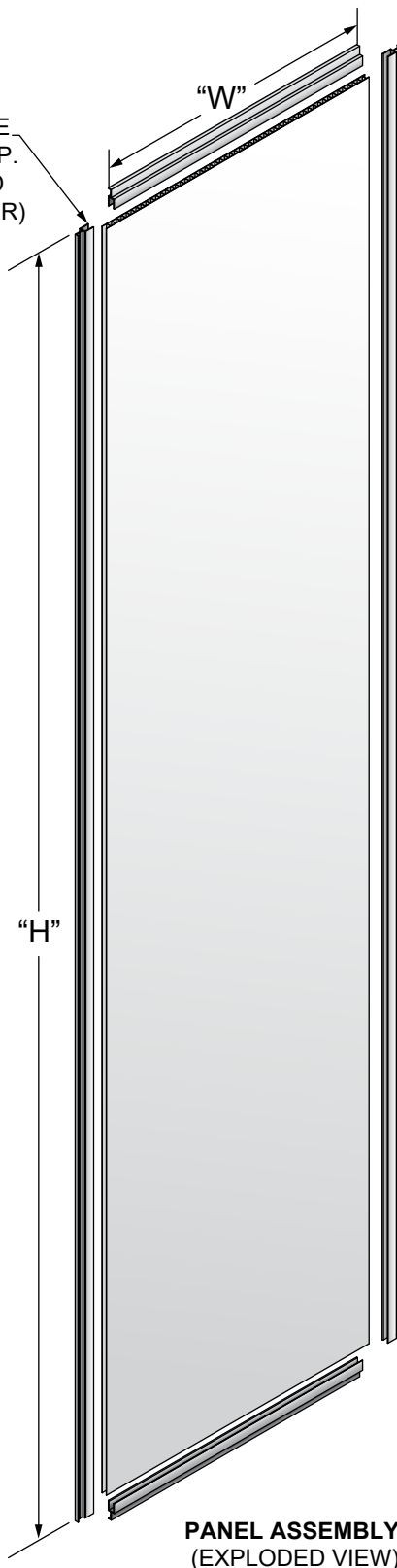
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EDGE SASH PREP.

Use the details below as a guide to prepare the I-10 aluminum edge sash in the field.



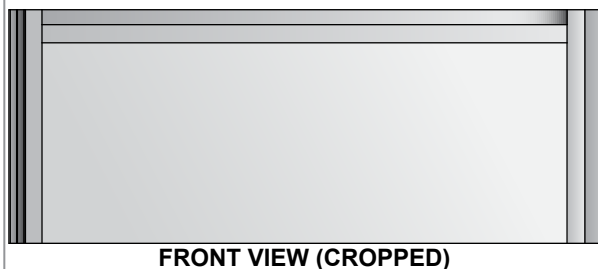
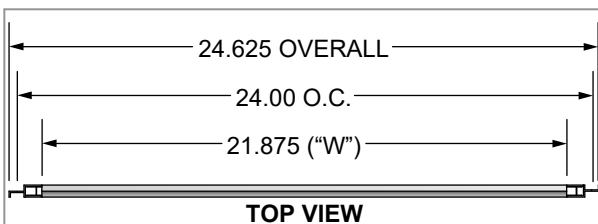
I-10 EDGE SASH (TYP. AROUND PERIMETER)



CALCULATING EDGE SASH (I-10) LENGTH

"H" = OVERALL DESIRED SYSTEM HEIGHT

"W" = DESIRED O.C. WIDTH DIMENSION - (2-1/8")



EXAMPLE:

THE PANEL ON THE LEFT HAS A 24" O.C. WIDTH DIMENSION. THE WIDTH OF THE HORIZONTAL EDGE SASH ("W") WILL BE:

$$24 - (2.125) = 21.875$$

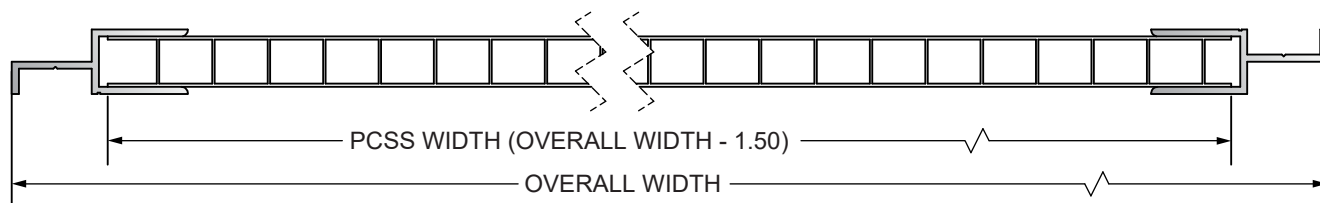
NOTICE THAT THE OVERALL PANEL WIDTH IS LARGER. PANELS WILL OVERLAP WHEN ASSEMBLED.

THE LAST PANEL TO BE INSTALLED WILL LIKELY BE A DIFFERENT SIZE. CUT LAST PANEL TO FIT.

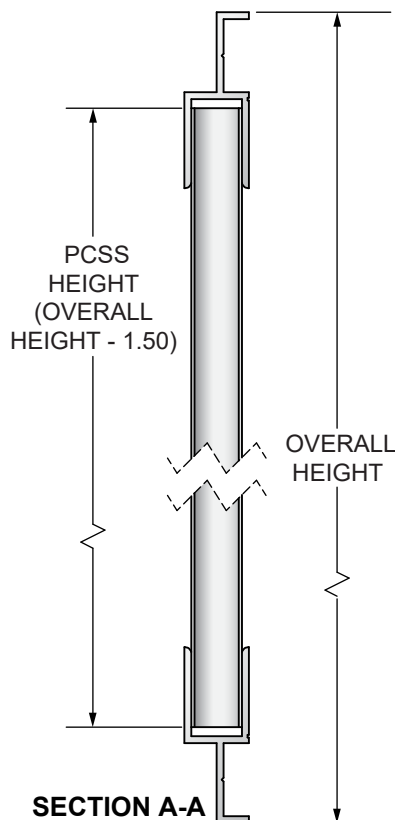
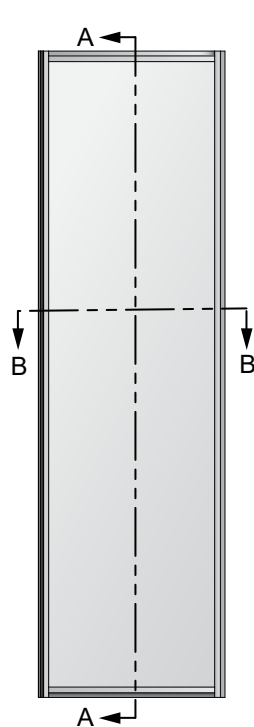
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PCSS MEASUREMENT/PREP.

Use the instructions below to properly measure and prepare the PCSS.

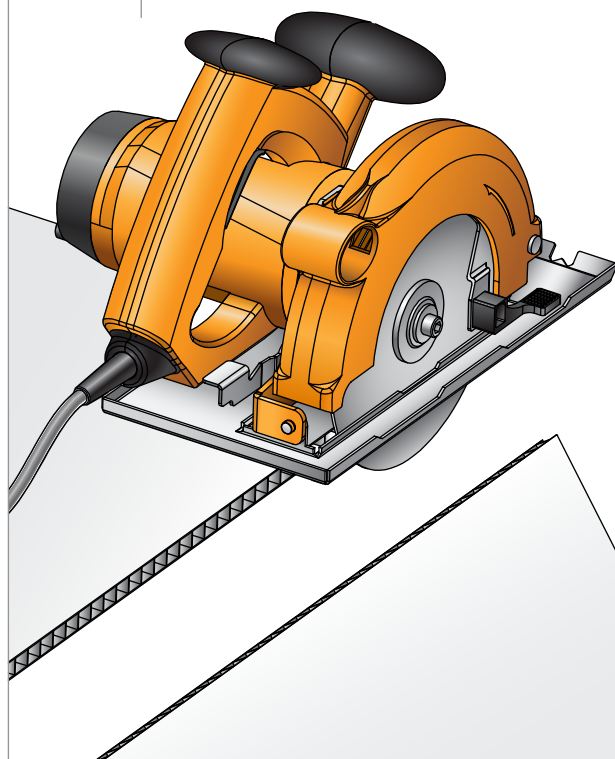


SECTION B-B

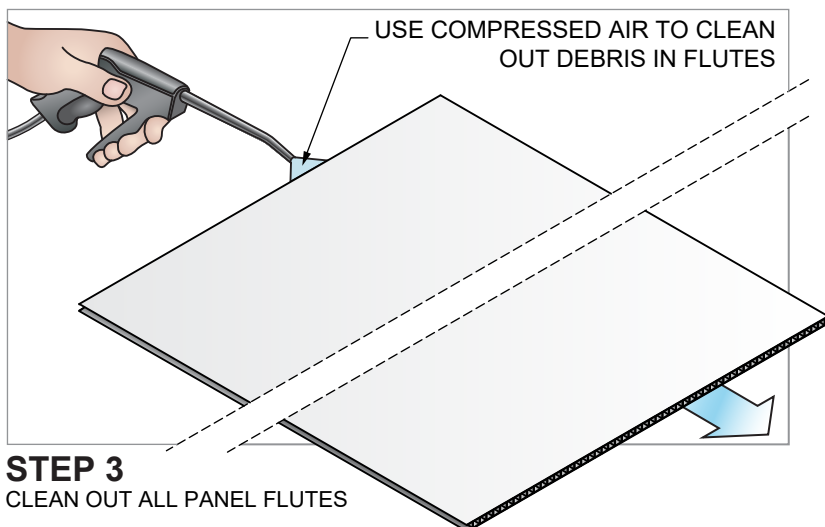


SECTION A-A

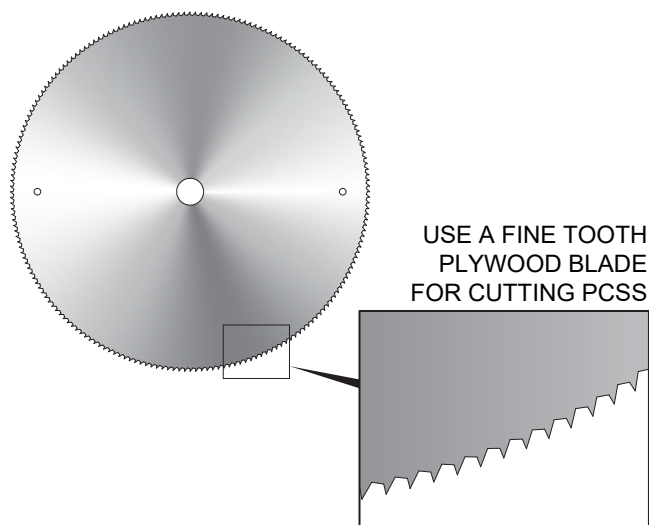
STEP 2 CUT PCSS TO FINISHED SIZE



STEP 1 CALCULATE FINISHED PCSS SIZE



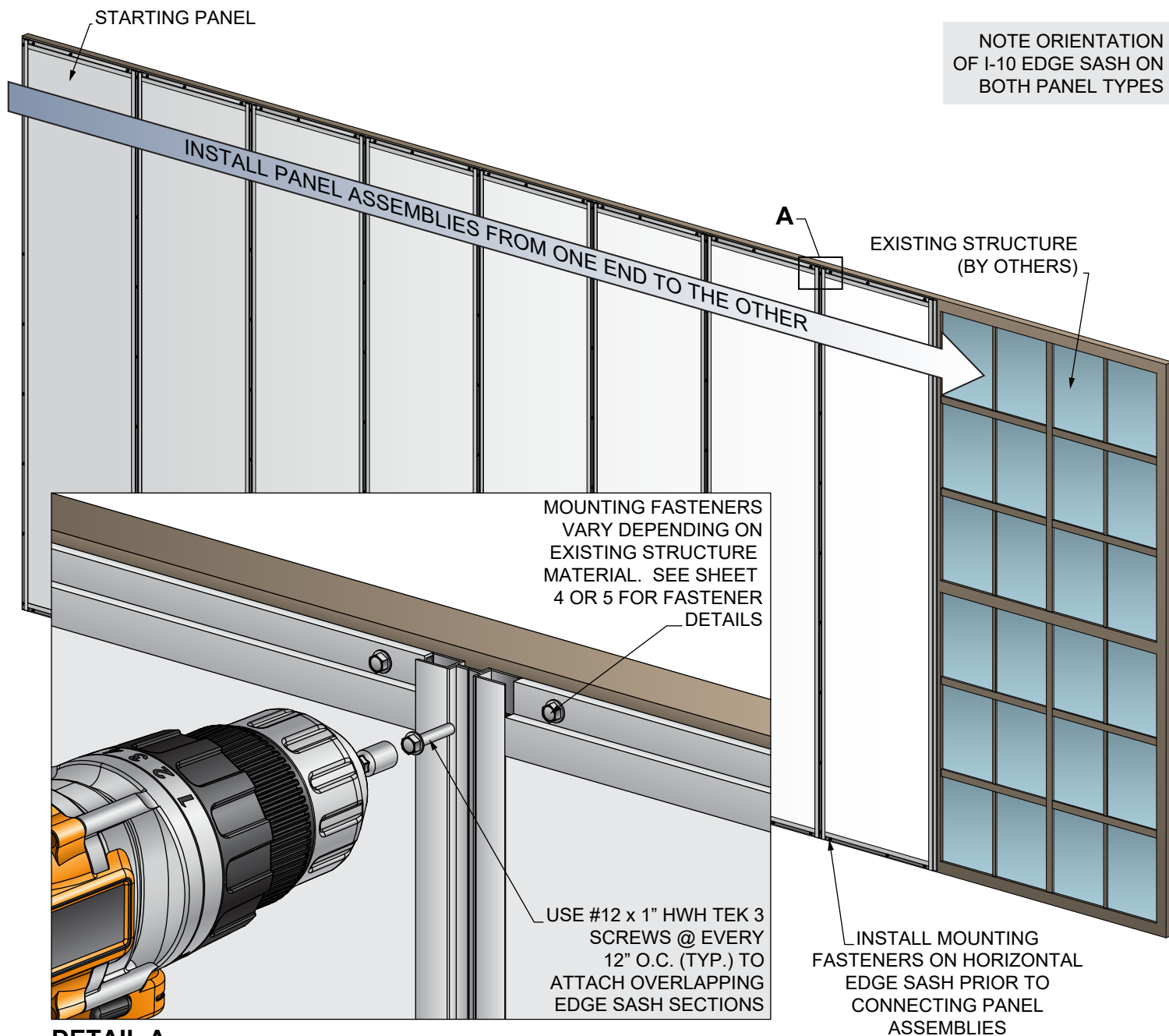
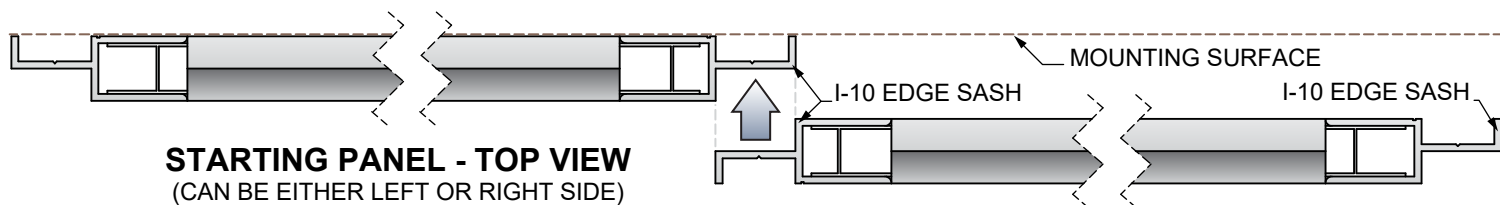
STEP 3 CLEAN OUT ALL PANEL FLUTES



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MOUNTING DETAILS

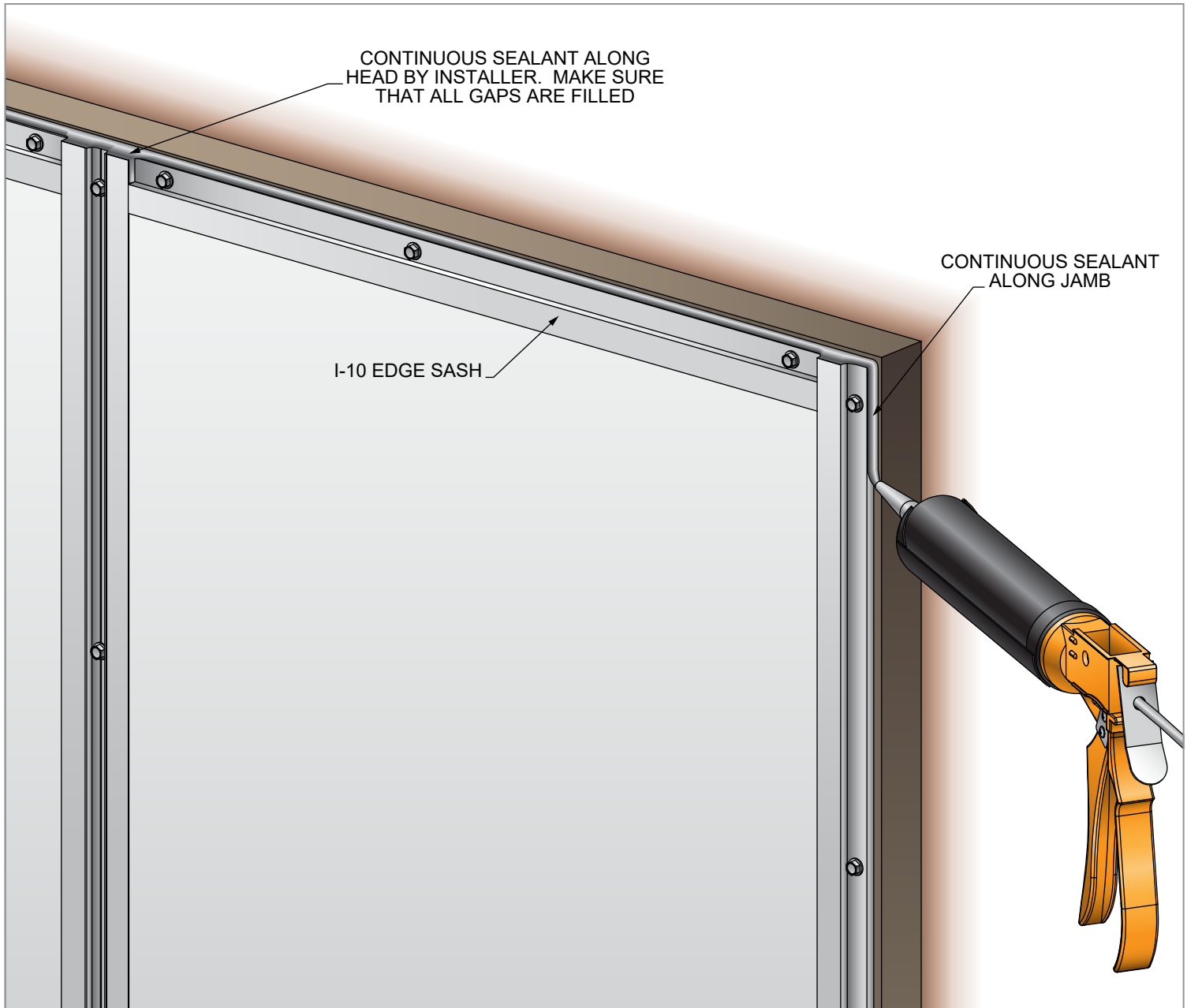
Reference the details below when attaching the panel system assemblies to the structure.



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SEALANT DETAILS

Apply sealant to all of the areas of the edge sash as shown in the details below. Make sure that all gaps are filled.



SEALANT NOTES:

- APPLY CONTINUOUS SEALANT AROUND HEAD AND JAMB SECTIONS
- MAKE SURE THAT ANY GAPS IN EDGE SASH ARE FILLED
- SEALANT IS NOT REQUIRED ALONG SILL
- HAND TOOL ALL CORNERS AND SEAMS TO REMOVE EXCESS SEALANT