



Industrial
Louvers, Inc.

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Installation Instructions for Horizontal Blade Louvers

Note:

- The information included in the submittal drawing package shall supersede any information included in these installation instructions. Fastener type, size, and quantity shall be dictated by the submittals. It is the responsibility of the installer to follow all building codes and comply with all safety regulations.
- These installation instructions are intended to cover basic louver installation processes. Various surrounding conditions may require a specialized anchorage solution in which case the Industrial Louvers prepared shop drawings should be referenced for installation guidance.
- These installation instructions do not depict louver accessories such as screen or blank off panels. The installation process is similar regardless of accessory type.
- Anchors into substrate are not supplied unless noted otherwise. The installer is responsible for supplying appropriate anchors.
- The product depicted in these installation instructions may not match the product supplied, however the installation process is the same.

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Definitions / Abbreviations

-Blade

The component used to fill the louver area.

-Flashing

Formed metal, peel and stick, or fluid applied membrane intended to divert water to desired location.

-Frame

The component(s) making up the perimeter of the louver.

-HWH

Hex Washer Head

-IVM

Invisible Vertical Mullion. Structural members are located behind blades to provide an uninterrupted monolithic assembly.

-Jamb

The left or right side of the louver assembly.

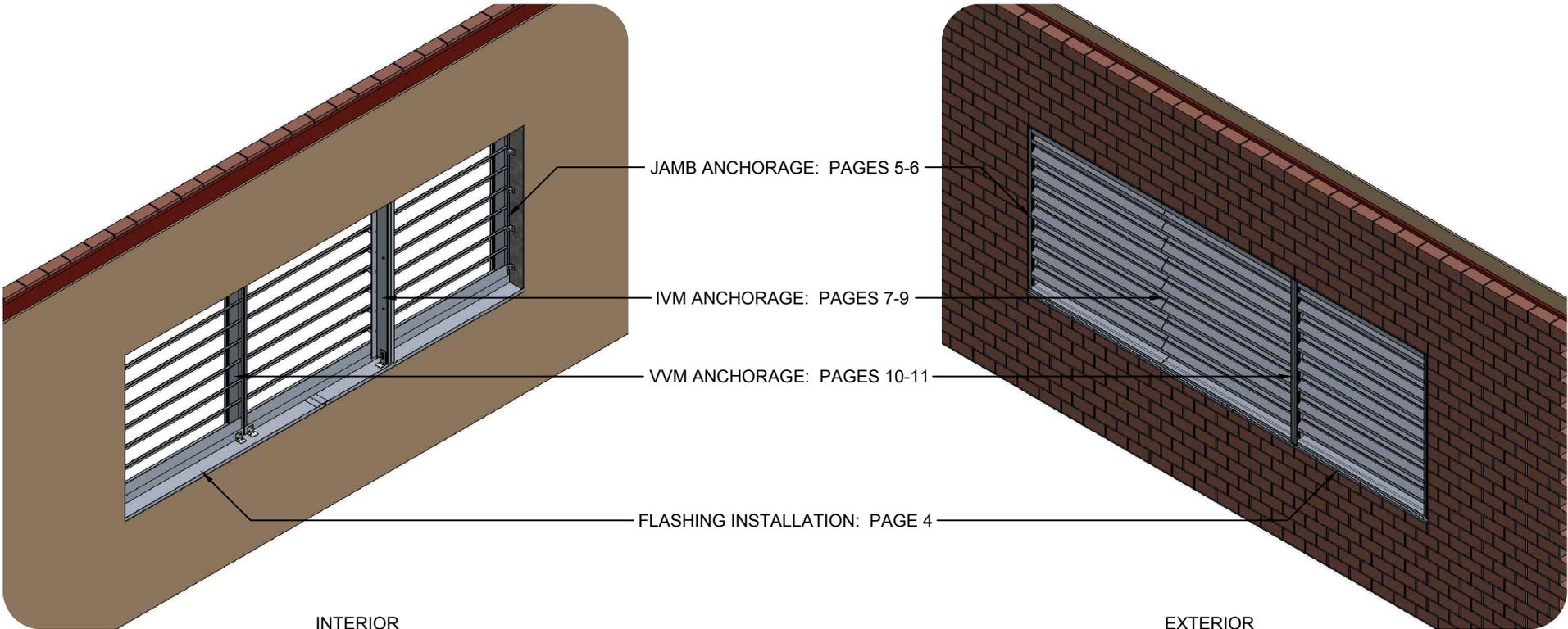
-SM

Sheet Metal.

-VVM

Visible Vertical Mullion. Side frames serve as structural members and are in line with the blades. Vertical battens are utilized to cover mullions which produce vertical bands within the louver assembly.

Louver Assembly Overview

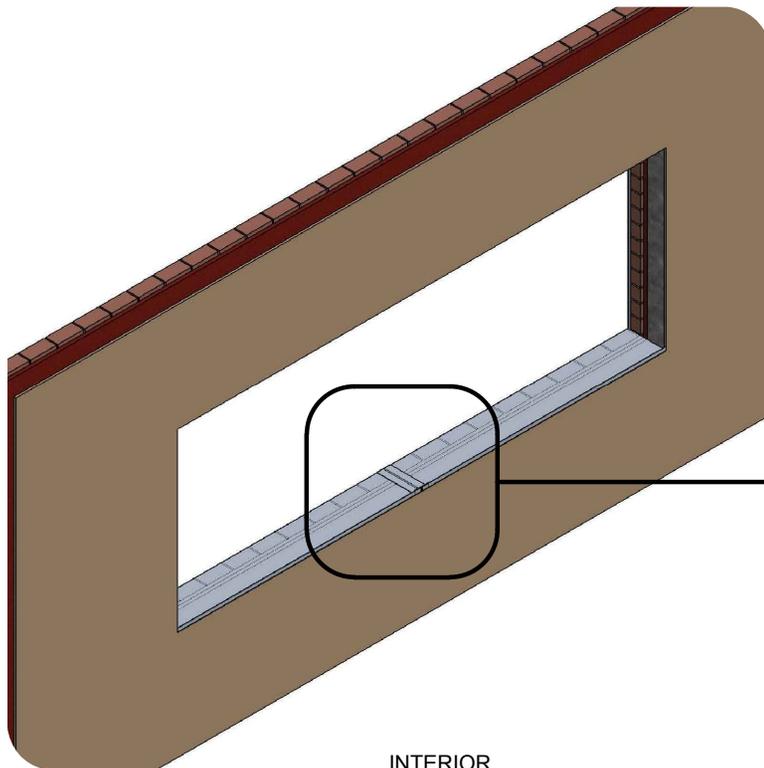


Sill Flashing Installation

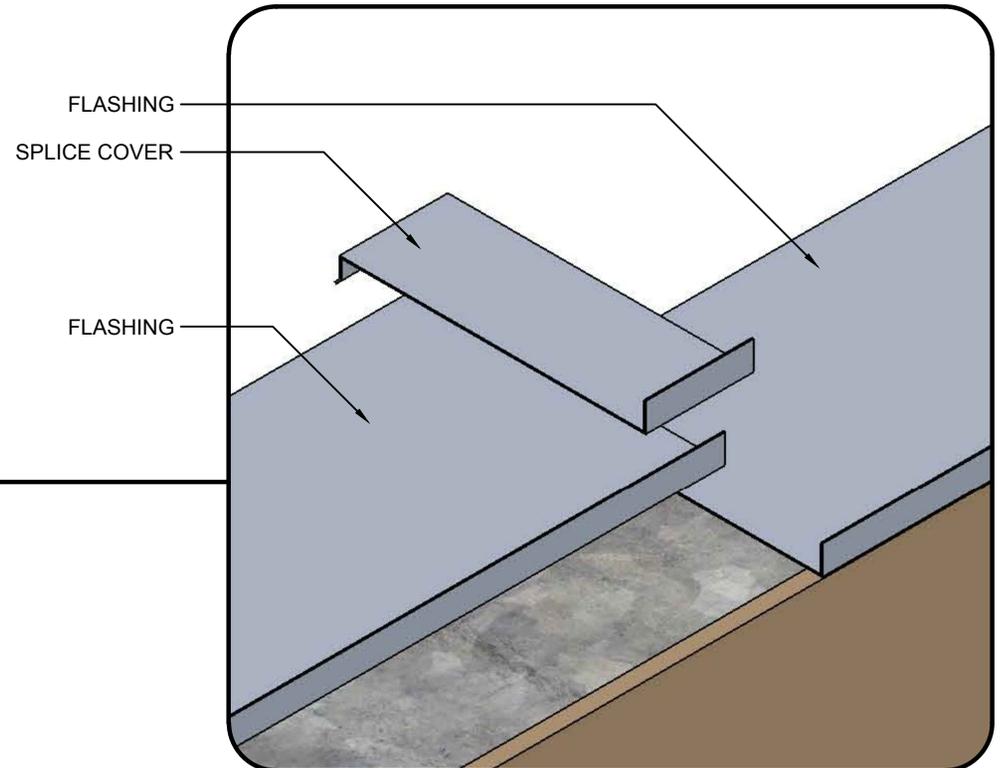
1. Inspect opening. Repair any damaged or unsound substrate before proceeding.
2. Apply sealant to opening as necessary to prevent water infiltration between opening and flashing.
3. Set flashing into opening.
4. Set splice cover in a bed of sealant at all sill flashing splice locations.
5. Complete opening preparation by installing additional flashing and sealant as warranted by the wall construction.

Note:

Flashing is not supplied with all louvers. Flashing installation may be omitted, however the opening shall still be properly prepared prior to proceeding.

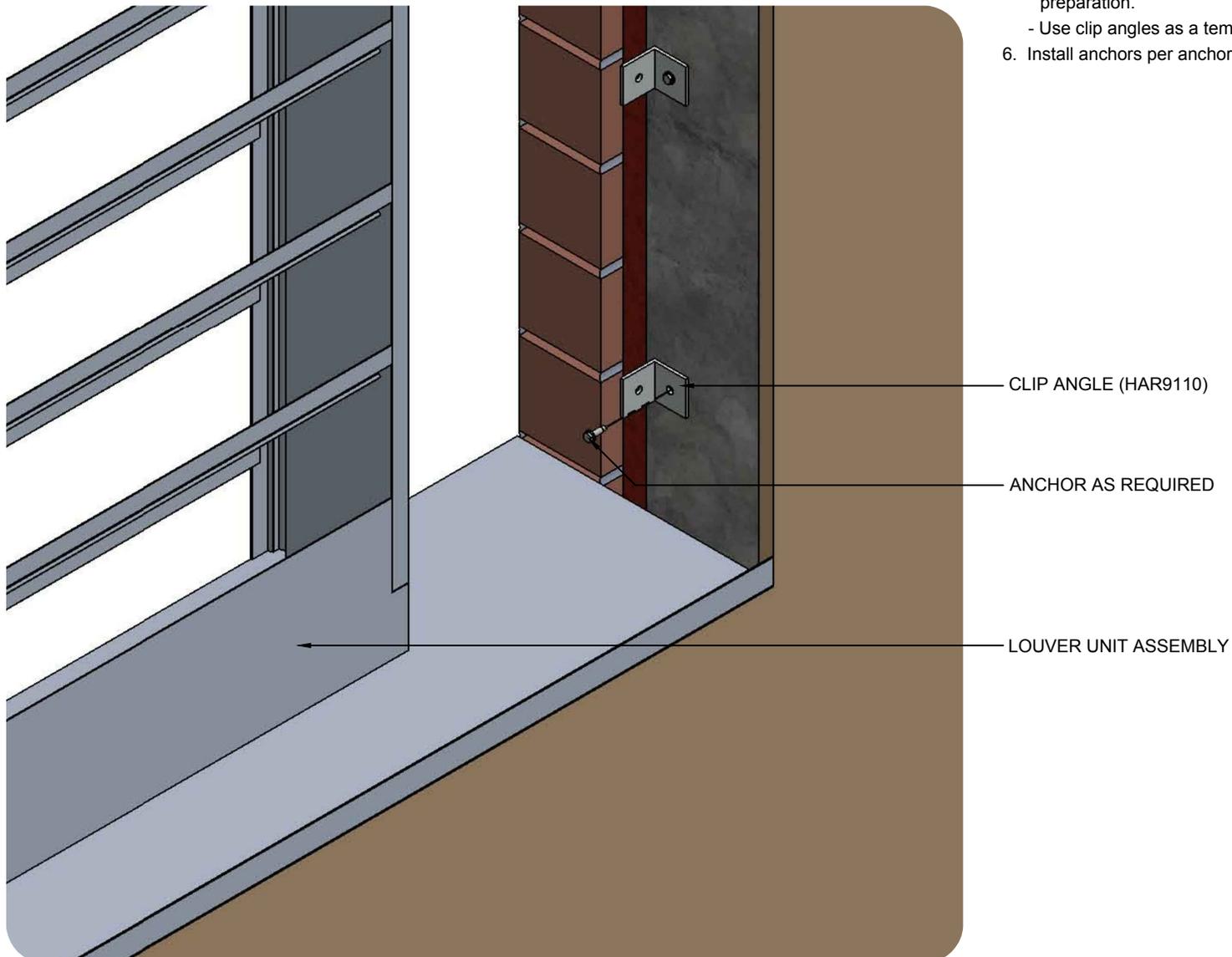


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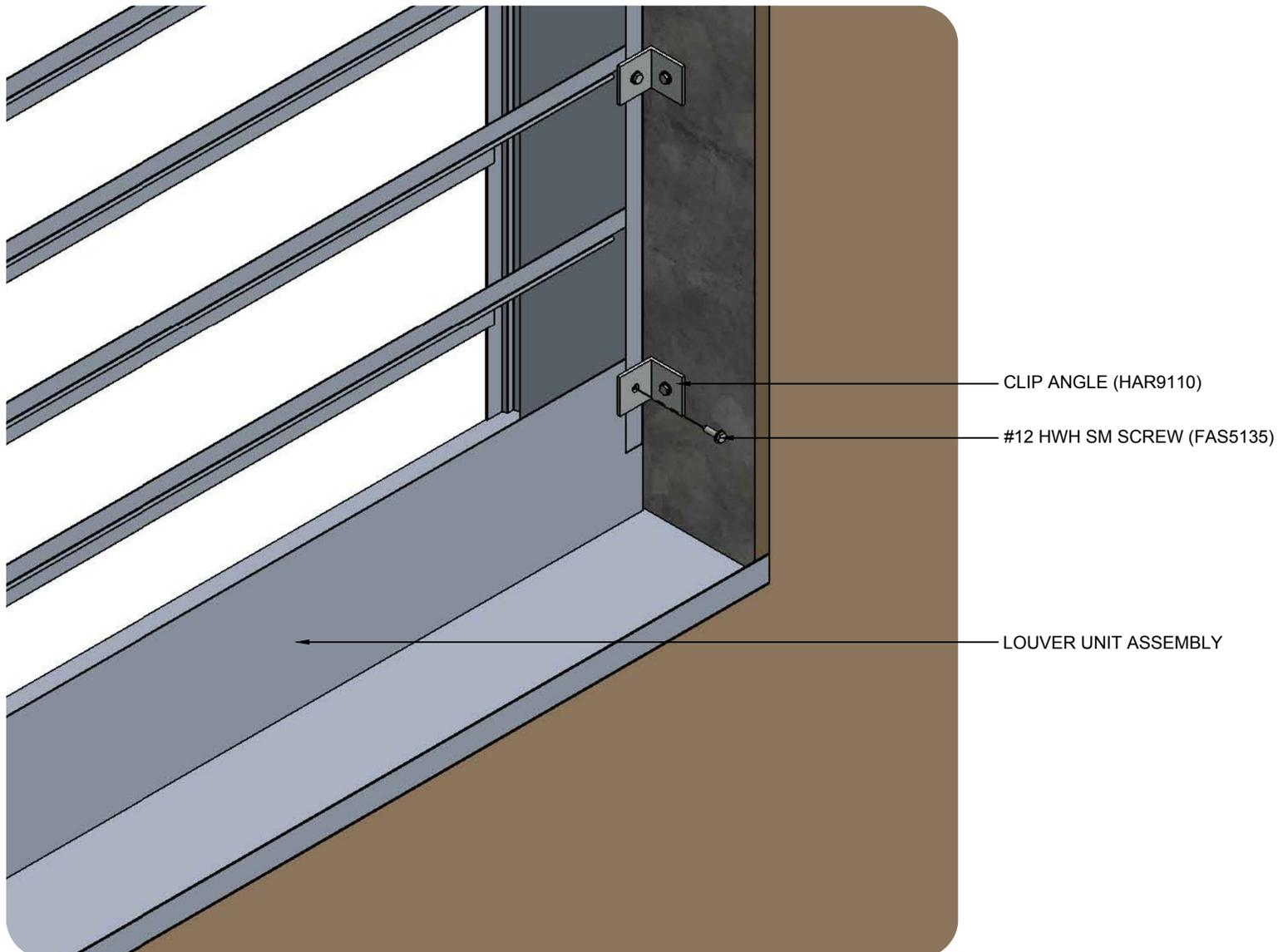
Clip Angle Installation At Jamb

1. Determine in/out location of clip angles.
 - Consider depth of louver system and any offset required from face of building to face of louver.
2. Mark in/out location of clip angles near top and bottom of opening.
3. Snap line between marks made in Step 2.
4. Mark vertical location of clip angles according to Industrial Louvers prepared shop drawings.
5. Drill pilot holes for anchors.
 - Consult anchor manufacturer's product data for proper substrate preparation.
 - Use clip angles as a template.
6. Install anchors per anchor manufacturer's recommendations.



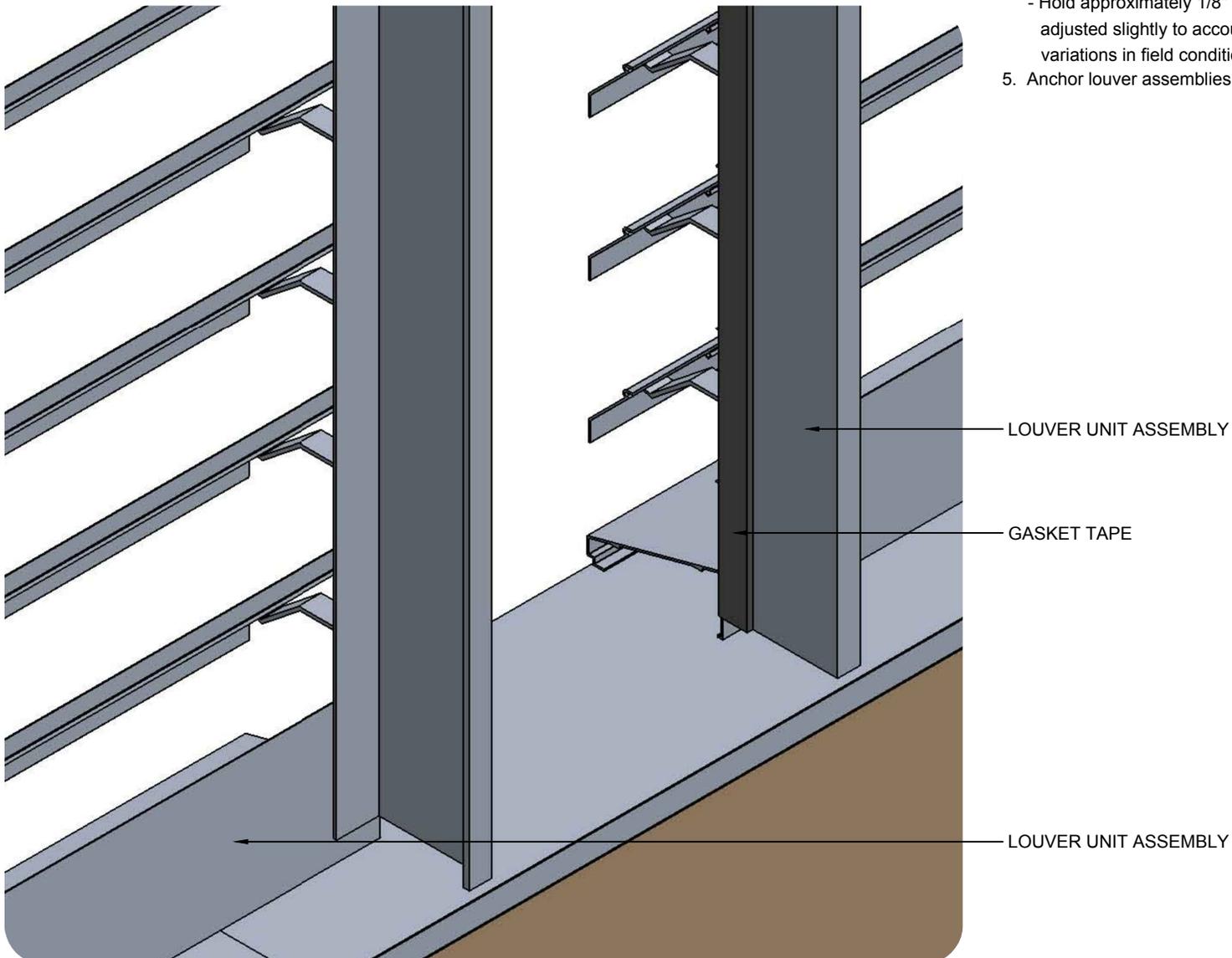
Louver Unit Installation At Jamb

1. Place louver unit assembly into position.
2. Drill 3/16" diameter pilot holes in louver frame for #12 HWH SM Screws.
3. Fasten louver to clip angles with #12 HWH SM Screws (FAS5135).
4. Repeat steps 2-3 for each clip angle.



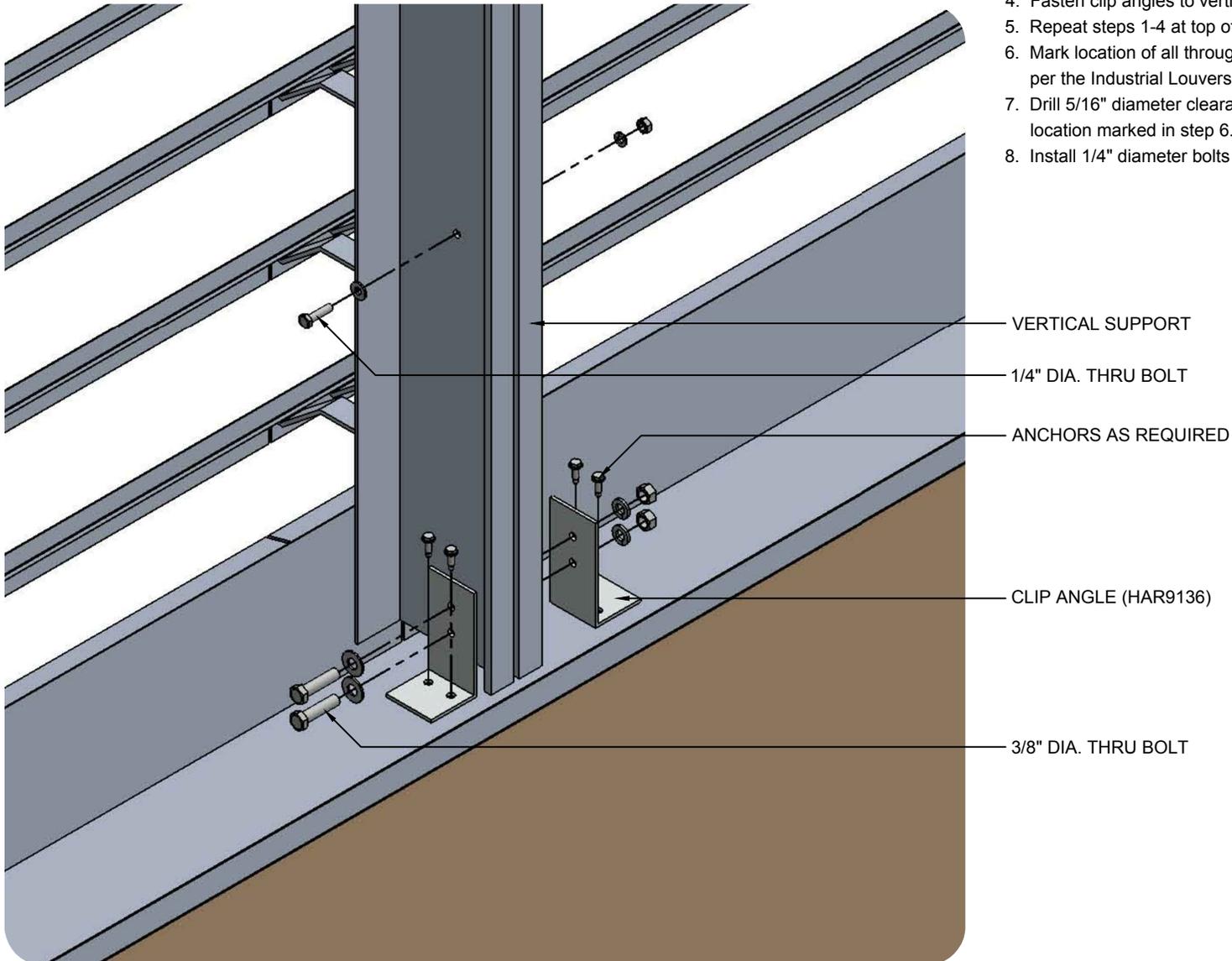
Gasket Tape Installation

1. Position first louver unit assembly as required.
 - The first louver unit assembly will already be partially installed and in place if units are installed from the end and you are working left to right or right to left.
 - Use shims, clamps, etc. to temporarily hold louver assembly in place.
2. Unroll gasket tape and remove protective film to expose sticky surface.
3. Install gasket tape to vertical support just behind louver blades.
 - Only one piece of gasket tape is required at each mullion.
4. Position second louver unit assembly as required.
 - Hold approximately 1/8" gap between louver assemblies. Gap may be adjusted slightly to account for manufacturing tolerances and/or variations in field conditions.
5. Anchor louver assemblies as shown on Page 8.



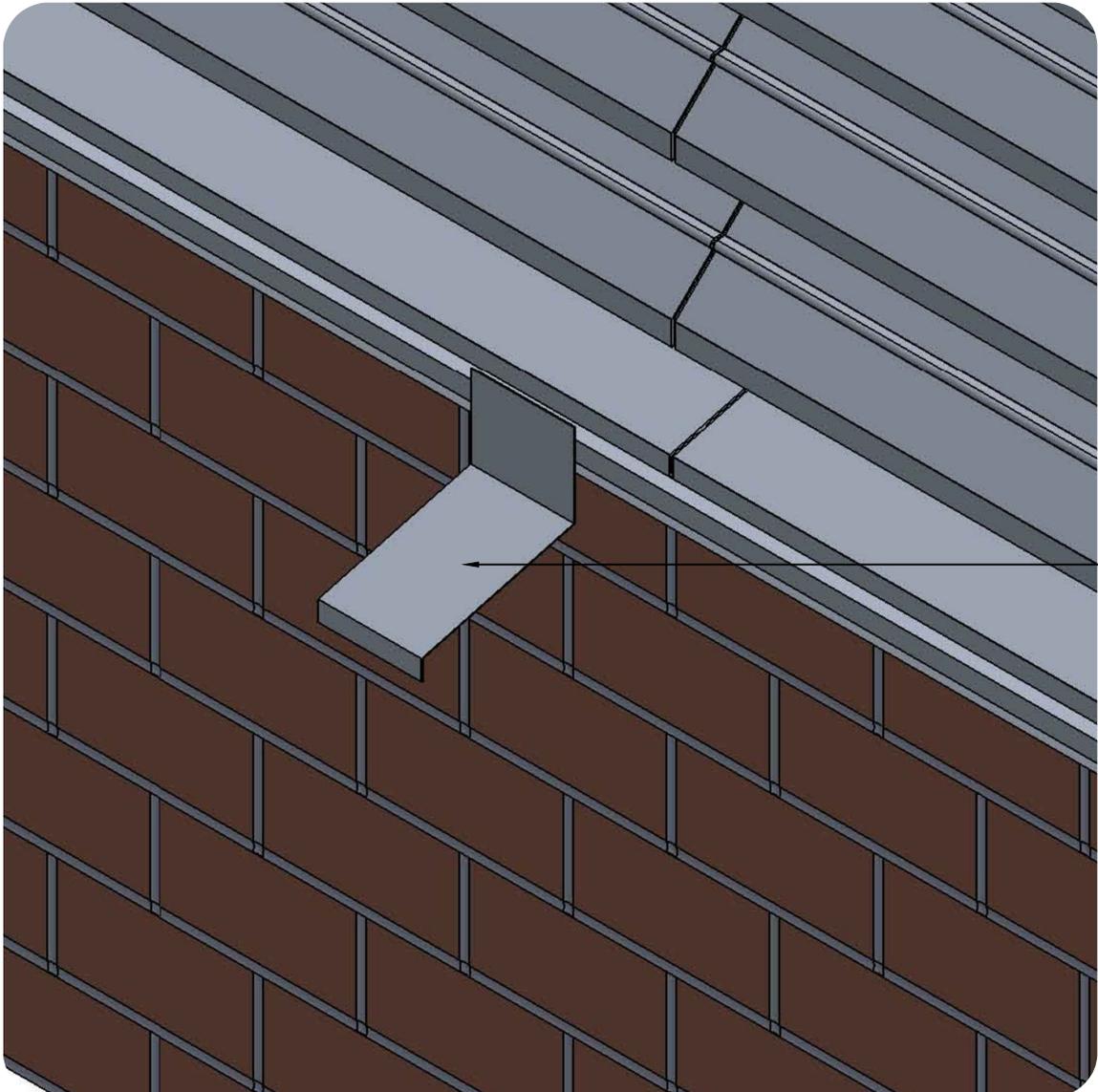
Clip Angle Installation At IVM

1. Drill clearance holes for thru bolts which are used to fasten the clip angles to the vertical supports.
 - Use clip angles as a template.
2. Drill pilot holes for anchors.
 - Consult anchor manufacturer's product data for proper substrate preparation.
 - Use clip angles as a template.
3. Install anchors per anchor manufacturer's recommendations.
 - All penetrations in sill flashing shall be properly sealed.
4. Fasten clip angles to vertical supports with supplied thru bolts.
5. Repeat steps 1-4 at top of louver.
6. Mark location of all through bolts for vertical support bracing purposes per the Industrial Louvers prepared shop drawings.
7. Drill 5/16" diameter clearance hole through both vertical supports at each location marked in step 6.
8. Install 1/4" diameter bolts through vertical supports.



Bottom Frame Splice Cover Installation

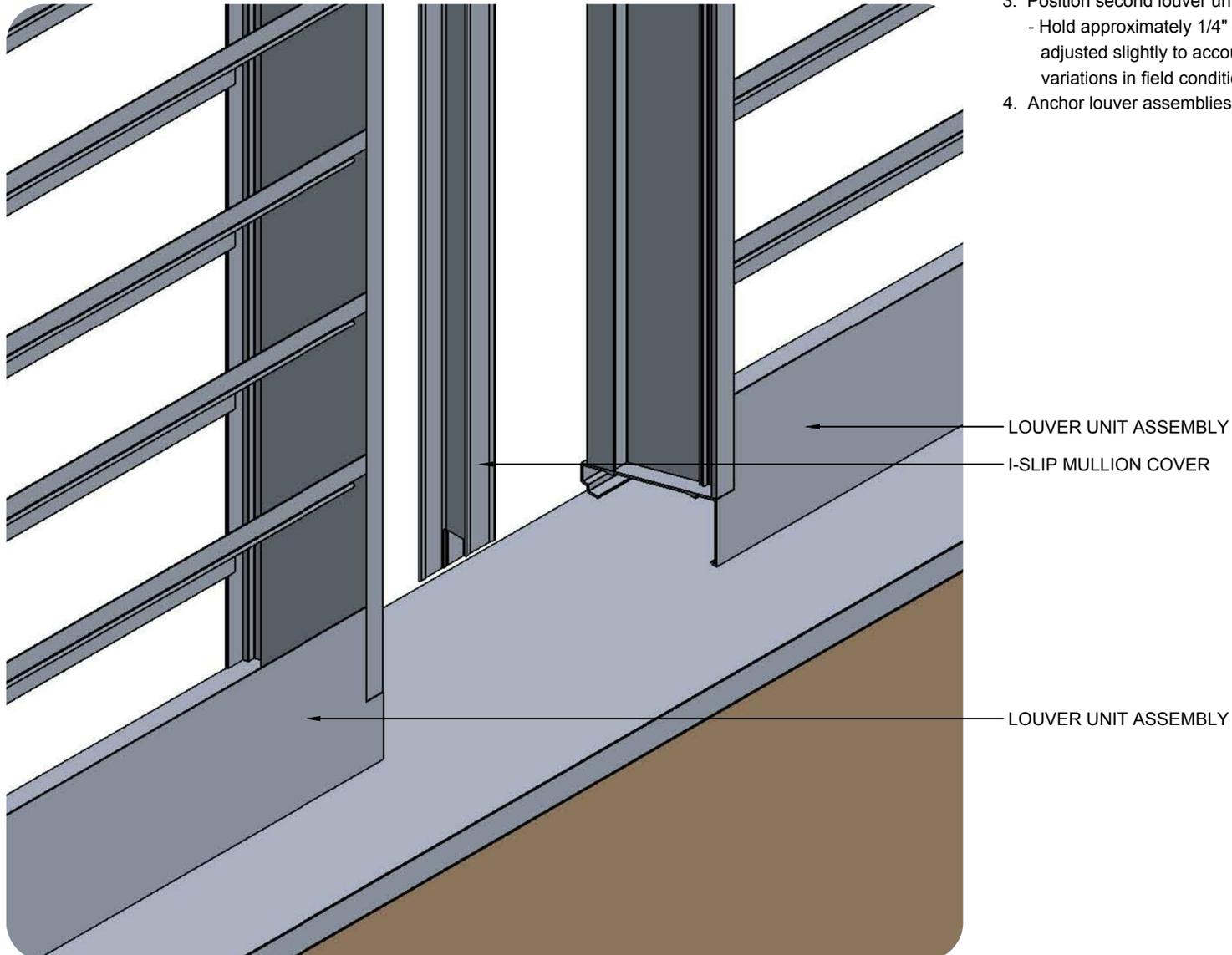
1. Set splice cover in a bed of sealant at all IVM locations.



BOTTOM FRAME SPLICE COVER

Mullion Cover Installation

1. Position first louver unit assembly as required.
 - The first louver unit assembly will already be partially installed and in place if units are installed from the end and you are working left to right or right to left.
 - Use shims, clamps, etc. to temporarily hold louver assembly in place.
2. Install I-Slip mullion cover onto first louver unit assembly.
 - Position notched end of mullion cover at bottom of louver to avoid interference with bottom frame.
 - It is not required to fasten the I-Slip mullion cover to either louver units.
3. Position second louver unit assembly as required.
 - Hold approximately 1/4" gap between louver assemblies. Gap may be adjusted slightly to account for manufacturing tolerances and/or variations in field conditions.
4. Anchor louver assemblies as shown on Page 11.

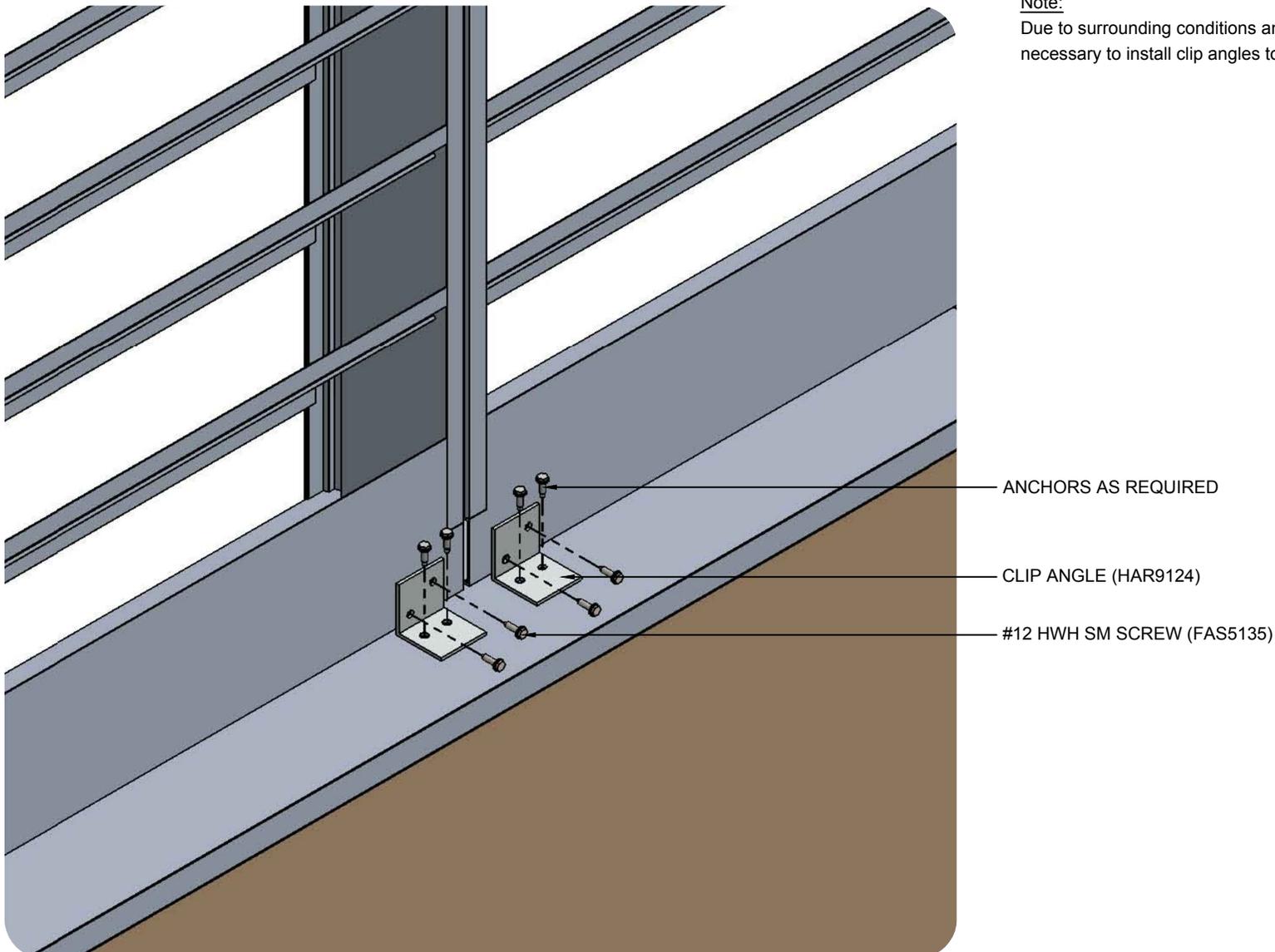


Clip Angle Installation At VVM

1. Drill pilot holes for anchors.
 - Consult anchor manufacturer's product data for proper substrate preparation.
2. Install anchors per anchor manufacturer's recommendations.
 - All penetrations in sill flashing shall be properly sealed.
3. Drill 3/16" diameter pilot holes in louver frame for #12 HWH SM Screws.
4. Fasten louver to clip angles with #12 HWH SM Screws (FAS5135).
5. Repeat steps 1-4 at top of louver.

Note:

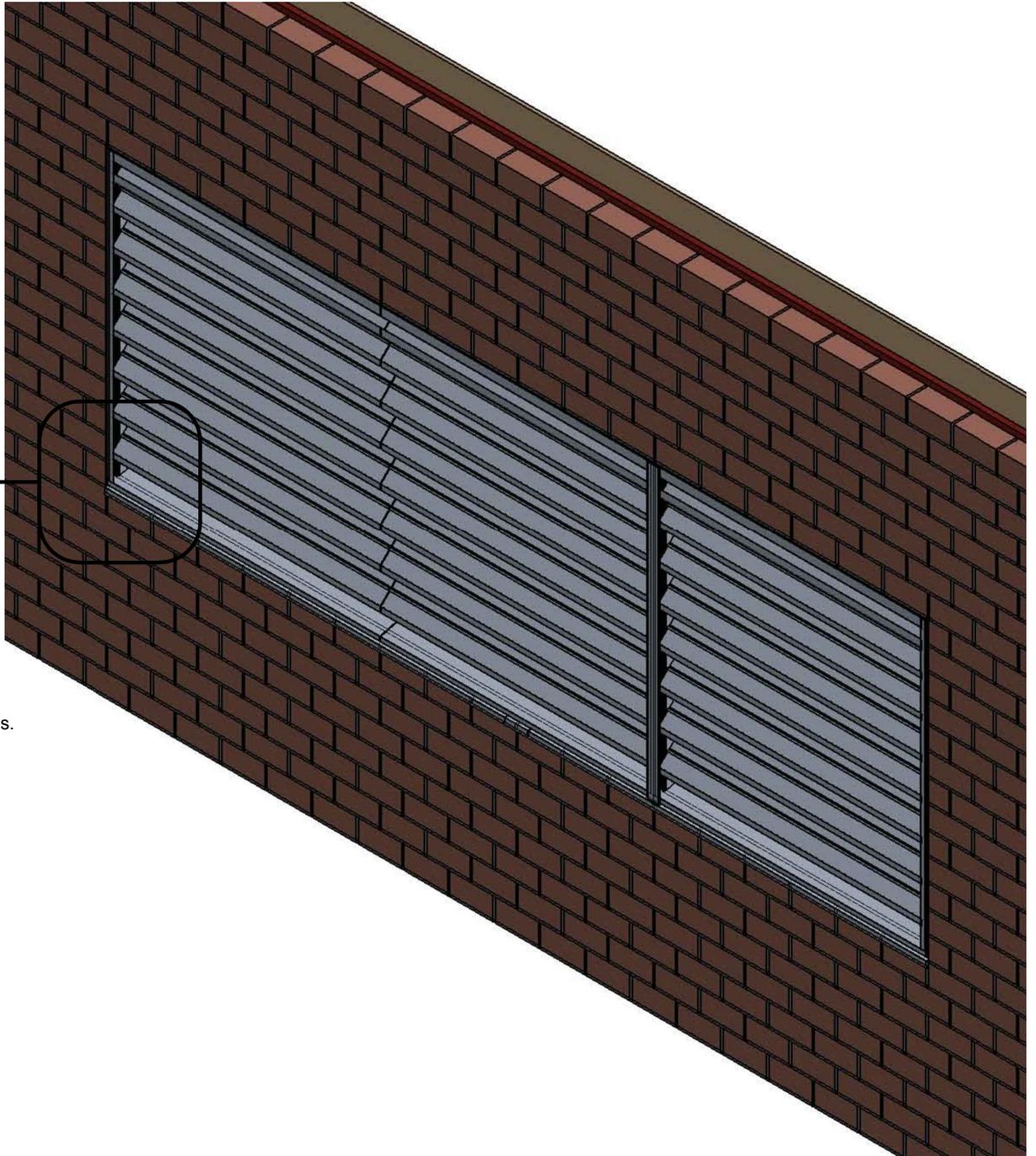
Due to surrounding conditions and/or shape of sill flashing it may be necessary to install clip angles to louver prior to installing anchors.



Weather Proofing



BACKER ROD
SEALANT



1. Insert backer rod into space between louver and surrounding conditions.
2. Apply sealant between louver and surrounding conditions.
 - Ensure sealant is bonded to surrounding substrate as well as the louver.

Note:

Water must be allowed to weep to the exterior at louver sill. Do not completely seal space between sill flashing and louver bottom frame.