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Introduction

Marvin Windows and Doors is an industry leader in providing high quality and energy efficient windows and doors. To obtain these results, Marvin windows and doors need to be properly installed and maintained. Failure to review and utilize these construction methods can result in poor product performance, premature failure and unnecessary call backs. It is the responsibility of the architect, builder, installer, and subcontractors to comply with code requirements for their area and to utilize the best method for attachments and fastener selections.

This chapter covers the water seal requirements of the window and door installation and provides visual detail in drawing format of our installation instructions.

The water seal method can be thought of as primary and secondary methods and systems;

- **Primary water seal**: window exterior seal to the exterior coating or finish of the building
- **Secondary water seal**: window seal to the wall weather resistive barrier so that any leakage within the wall is managed and controlled.
- **Window panning system**: drains the RO area to the wall resistive barrier
- **RO air area seal**: prevents RO pressurization and air movement through the RO
- **Wall thermal barrier**: provides continuity of the wall system by installation placed around the window in the RO gap. Marvin has two systems for this; (1) batten installation system and (2) spray foam
- **Vapor seal**: is the least important of the seal systems. The vapor barrier provides continuity across the RO with the wall vapor barrier.

Units must be shimmed in the opening, true, level, and square. Shim a minimum of 3/8” above sill plate to provide unit clearance over panning.

Contact your Marvin representative if you have questions or need further technical assistance at 1-800-346-3363.

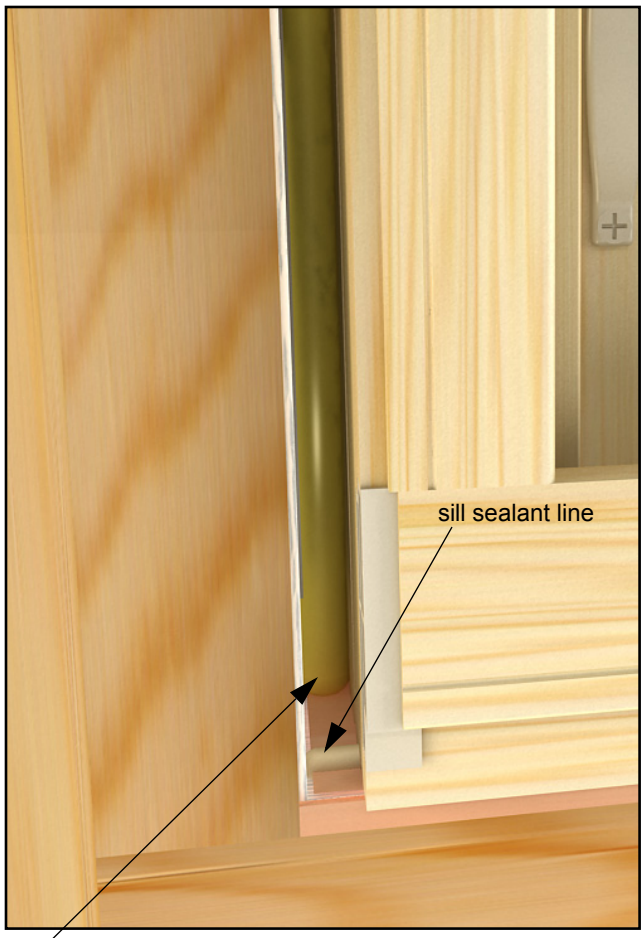
NOTE: Details shown not typical and subject to change without notice. Always refer to your local code for proper construction and rough opening preparation.

***Important!** Details are shown with small spaces between items for clarity, visualization, and illustrative purposes. Actual assembly details may vary. Contact Marvin Architectural for project specific aids.*

Insulating and Sealing the Window

Step by step instructions with color illustrations on Marvin's recommended rough opening preparation can be found at http://www.marvin.com/roprep/

These systems require a continuous air barrier at the interior perimeter that ties into the sill sealant line.



Interior View

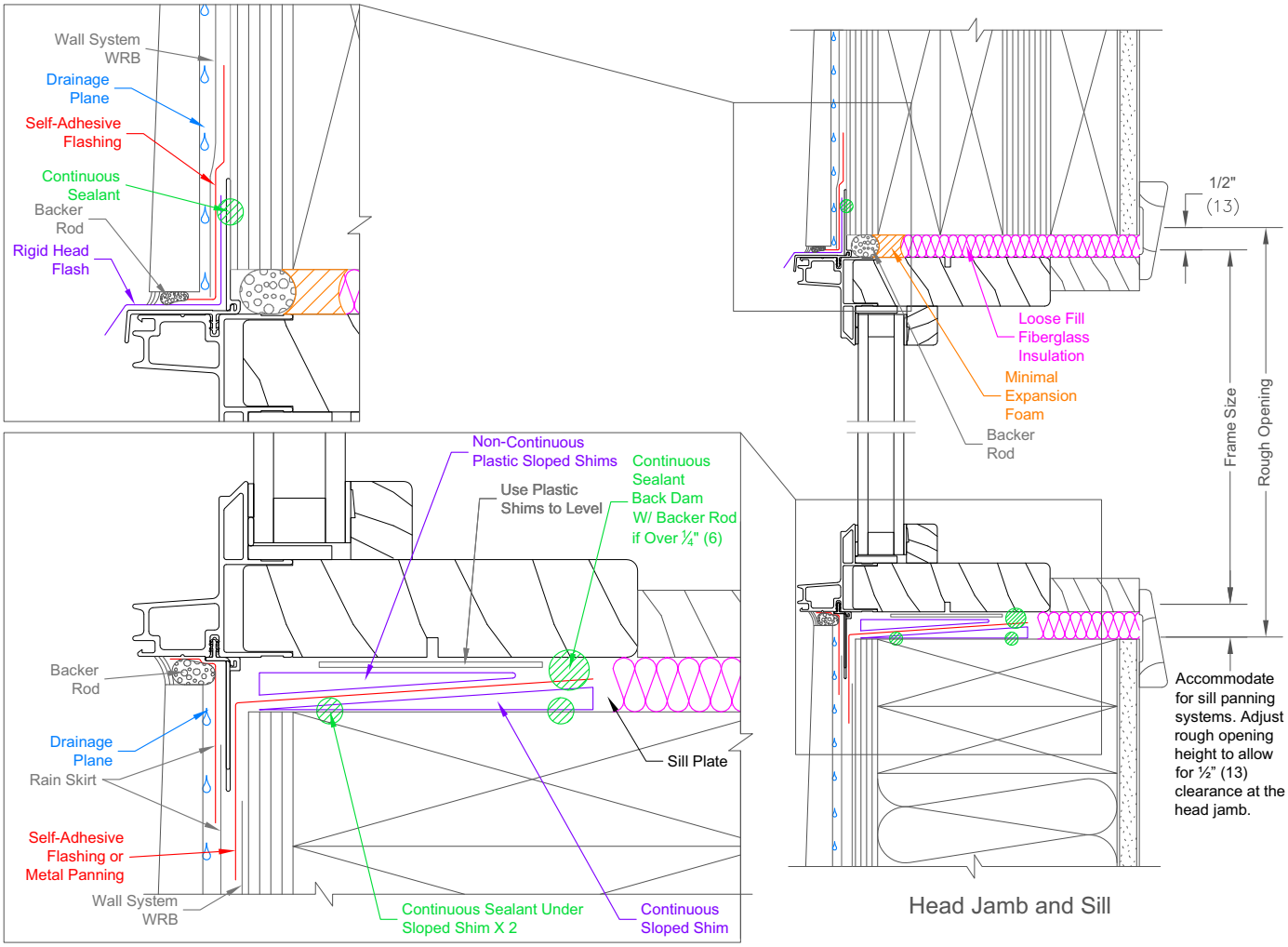
Minimal expansion foam against backer rod.

Interior View

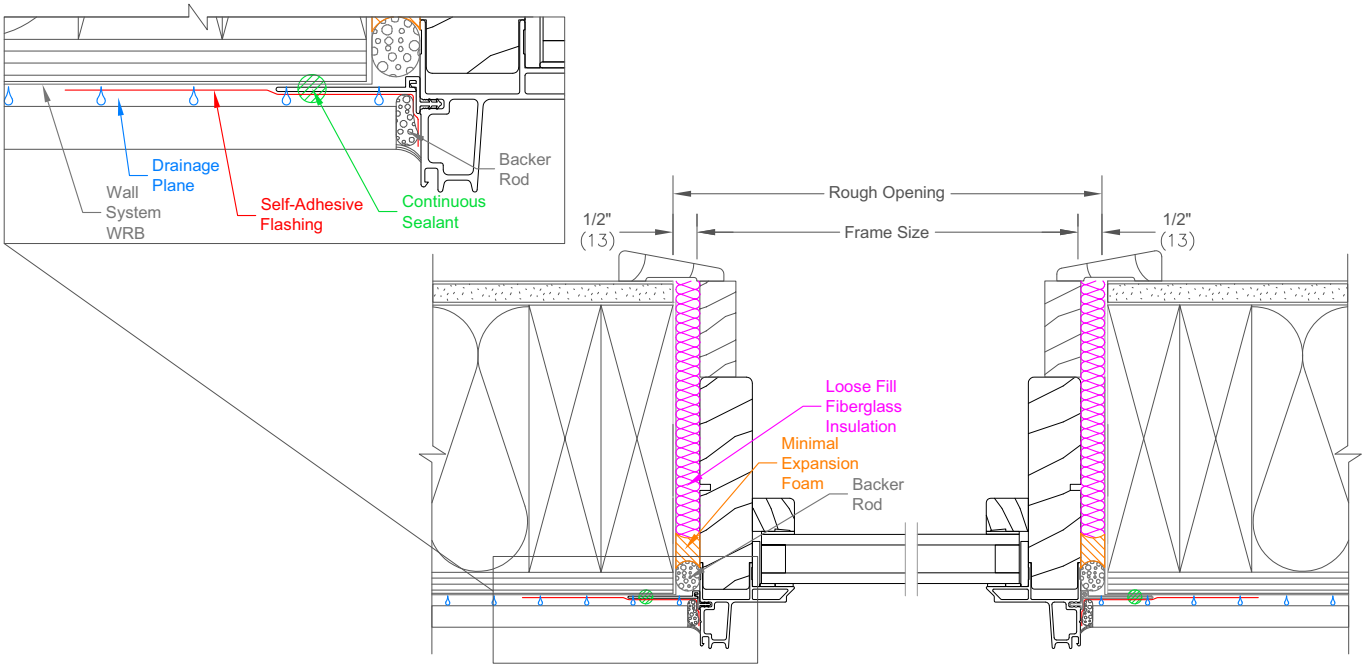
Fill with minimal expansion foam filled behind backer rod and at the corners over the sill sealant line.

Clad Polygon - 2x6 Frame Wood Siding

Scale: 3" = 1"0"



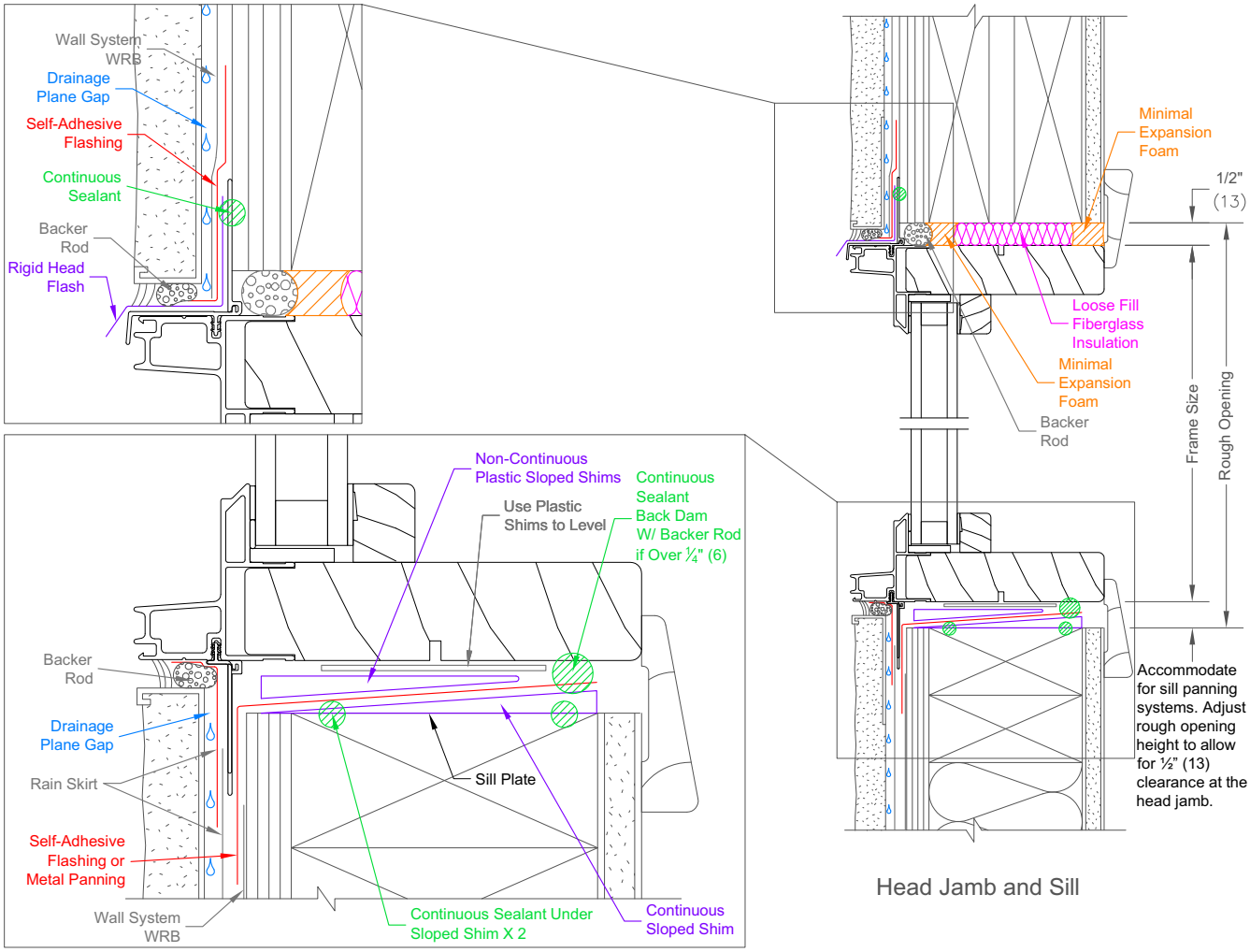
Head Jamb and Sill



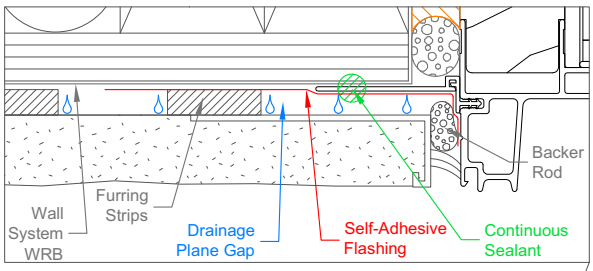
Jamb

Clad Polygon - 2x4 Frame with Stucco

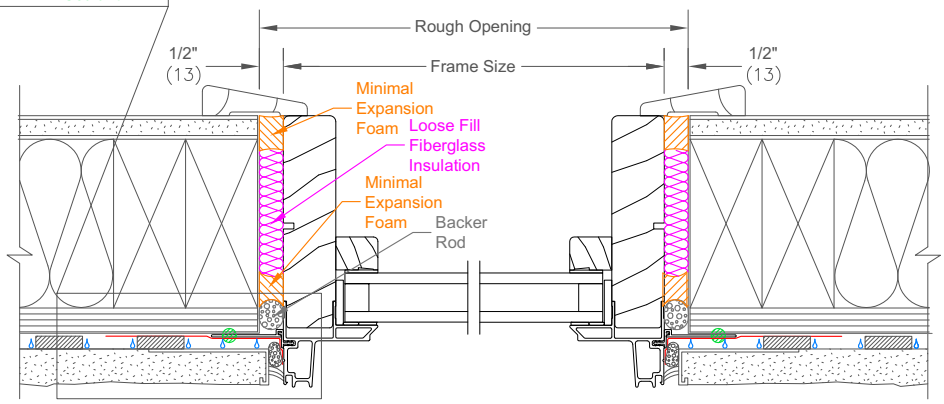
Scale: 3" = 1'0"



Head Jamb and Sill



NOTE: Engineered water management stucco product. See stucco manufacture for specific details required by water management system.



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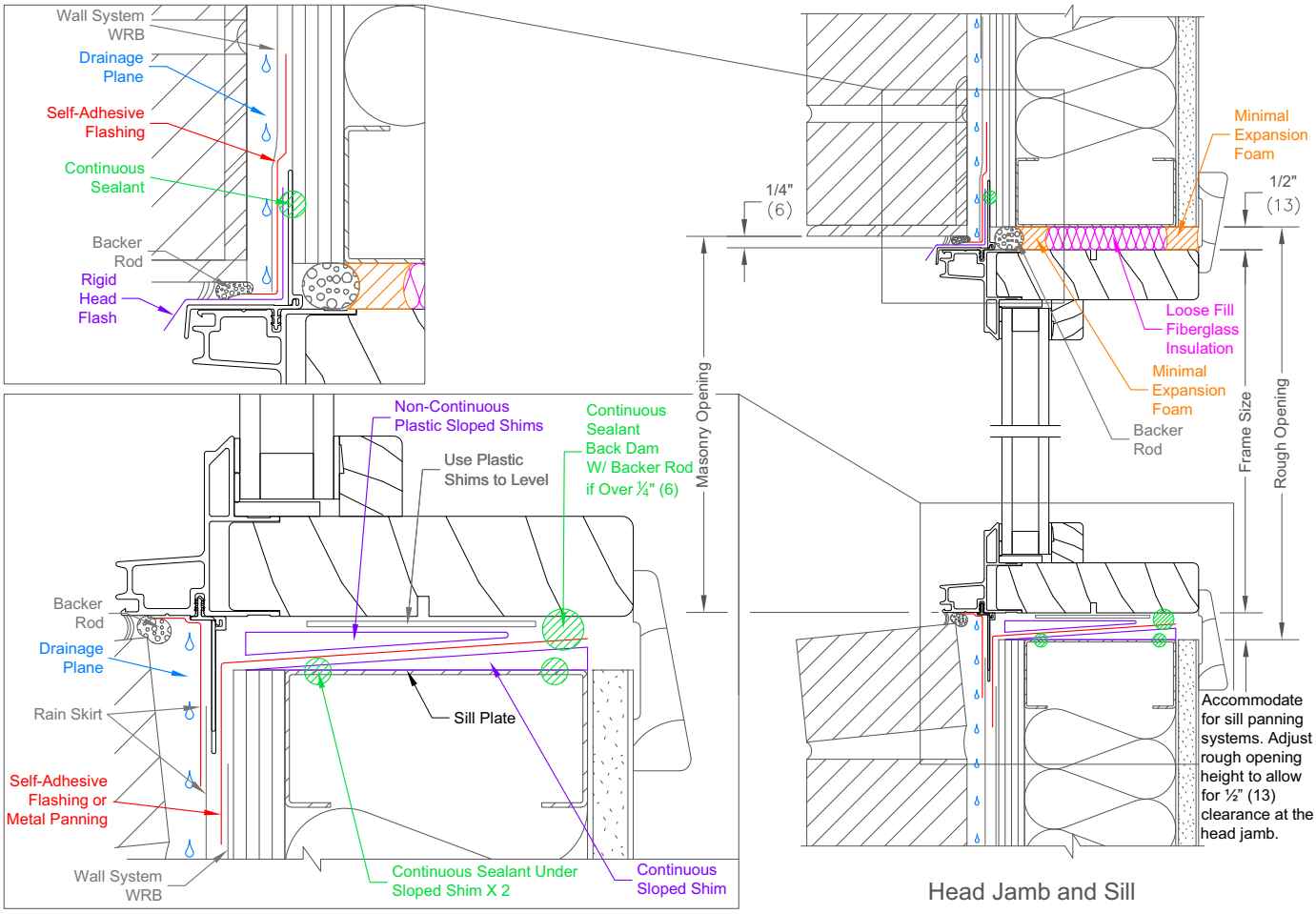
Clad Polygon - 2x4 Steel Stud with Brick Veneer

Scale: 3" = 1'0"



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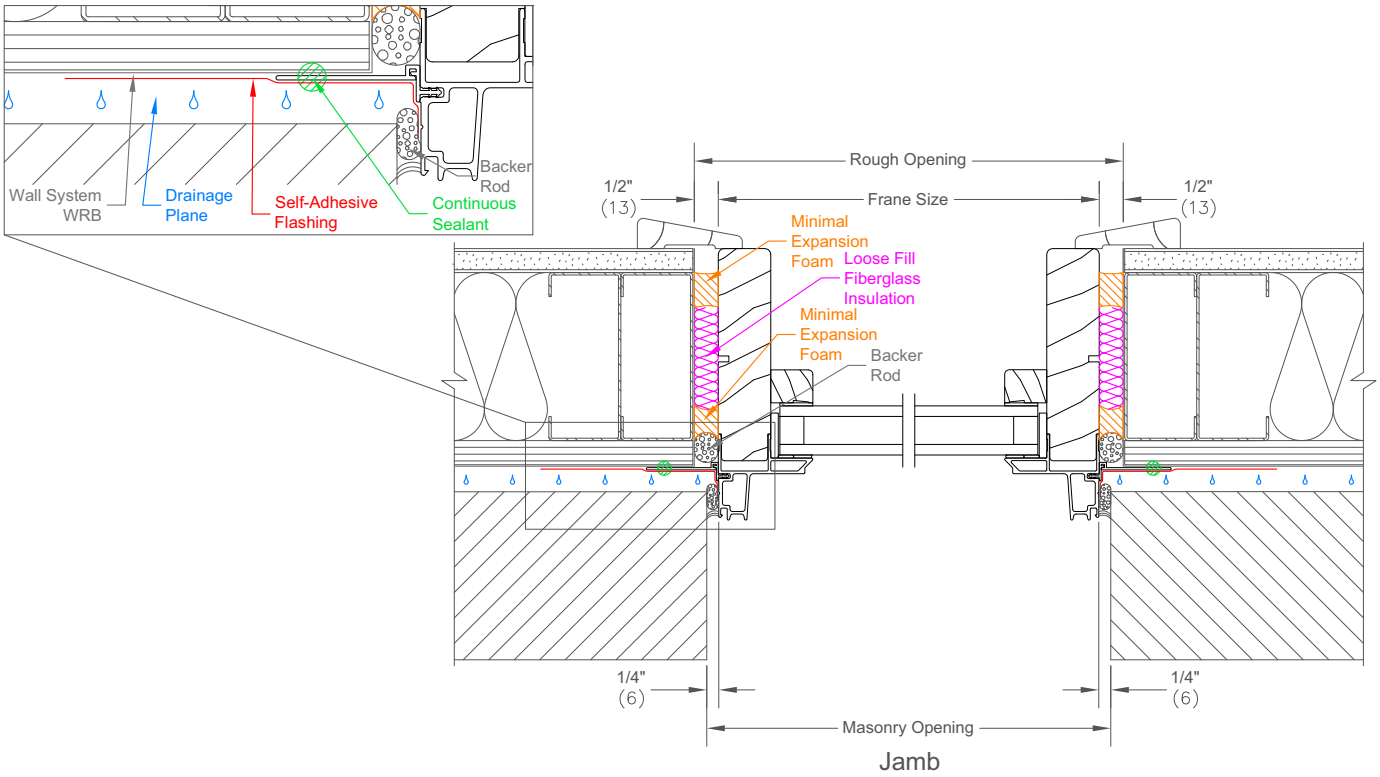

Jamb

Clad Polygon - Concrete Block with Brick Veneer

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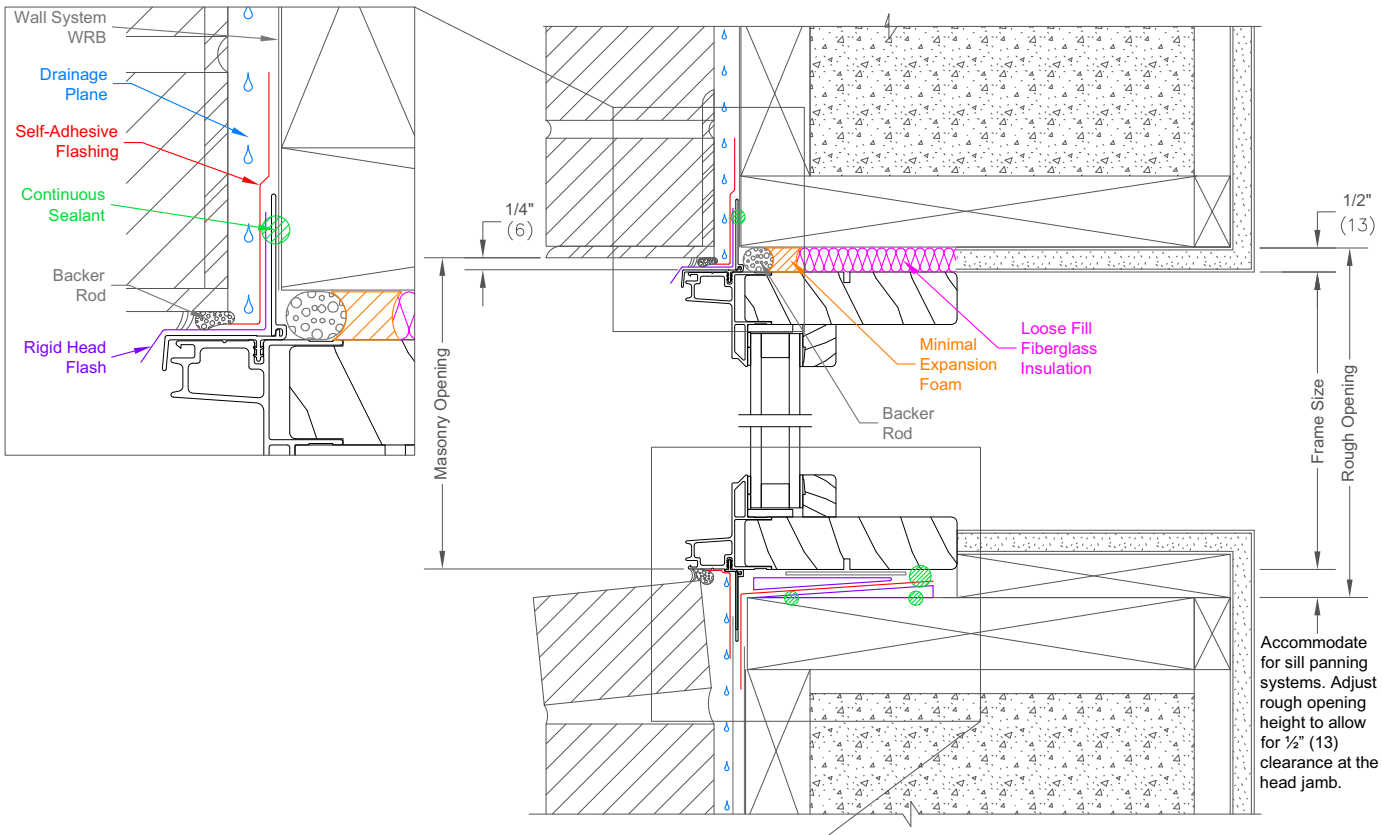

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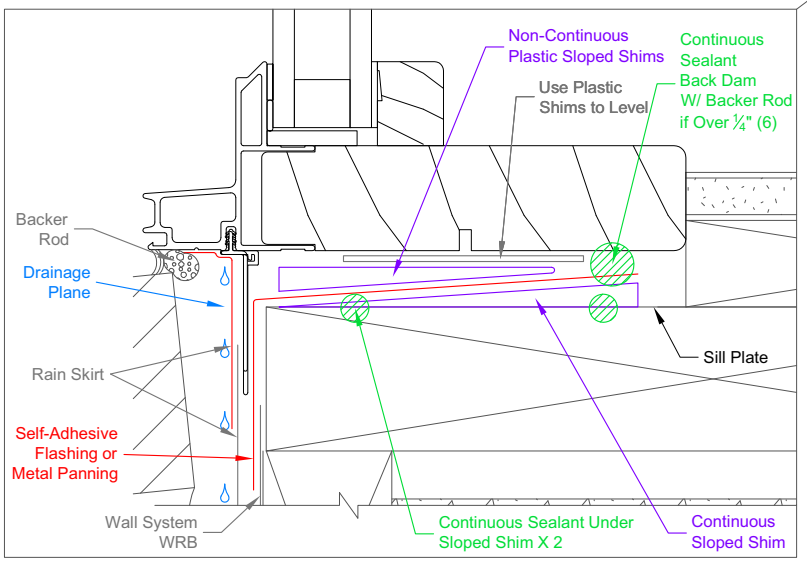
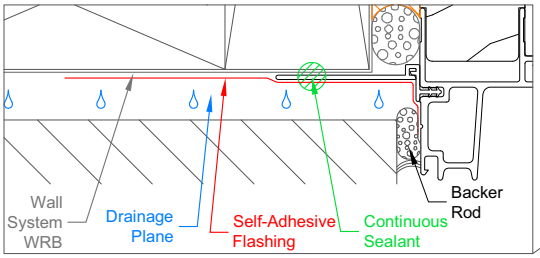
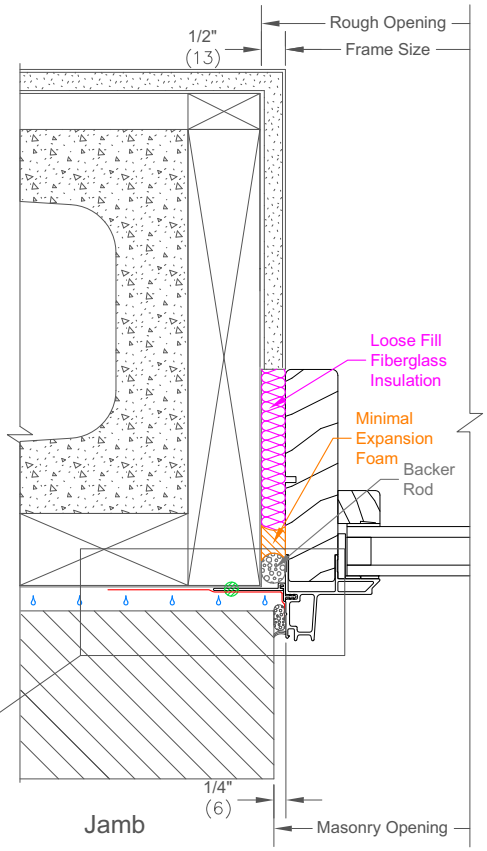


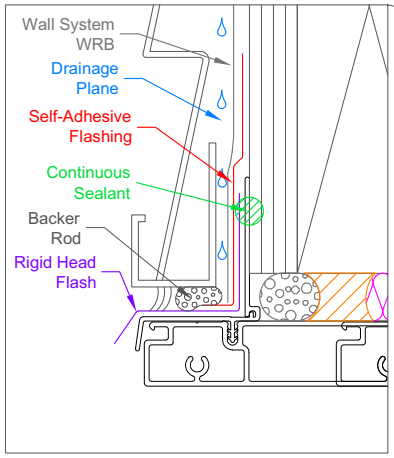


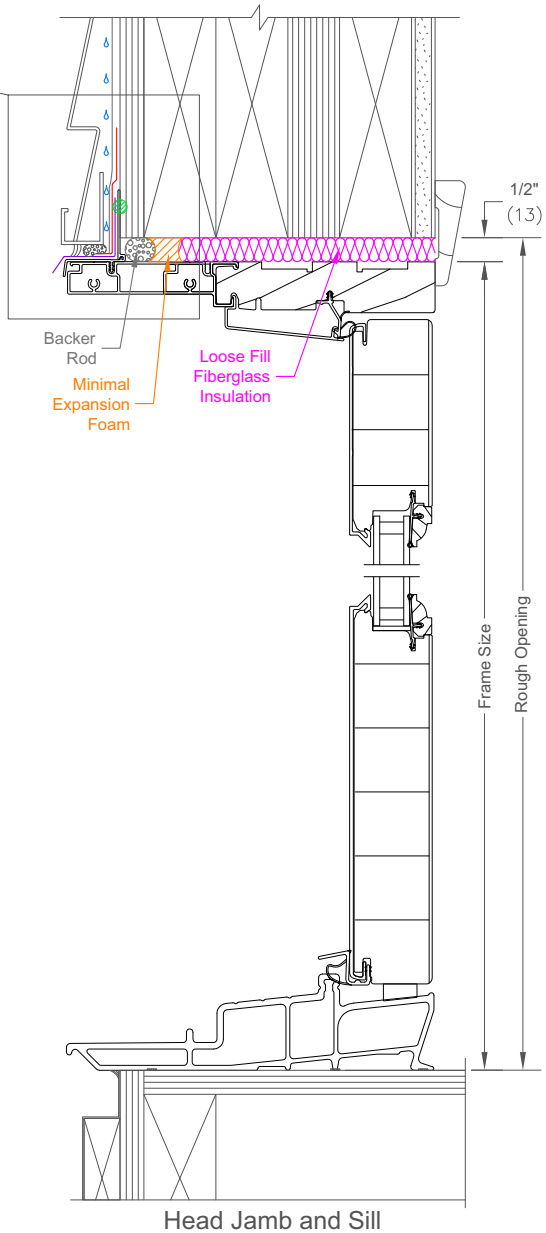


Jamb

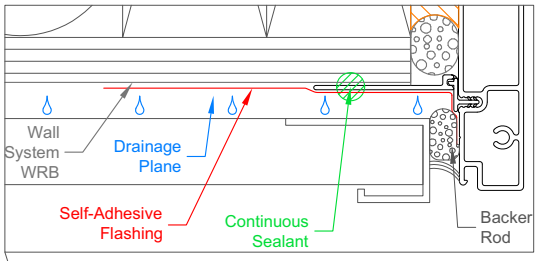
Clad Ultimate Inswing French Door - Frame with Steel Siding

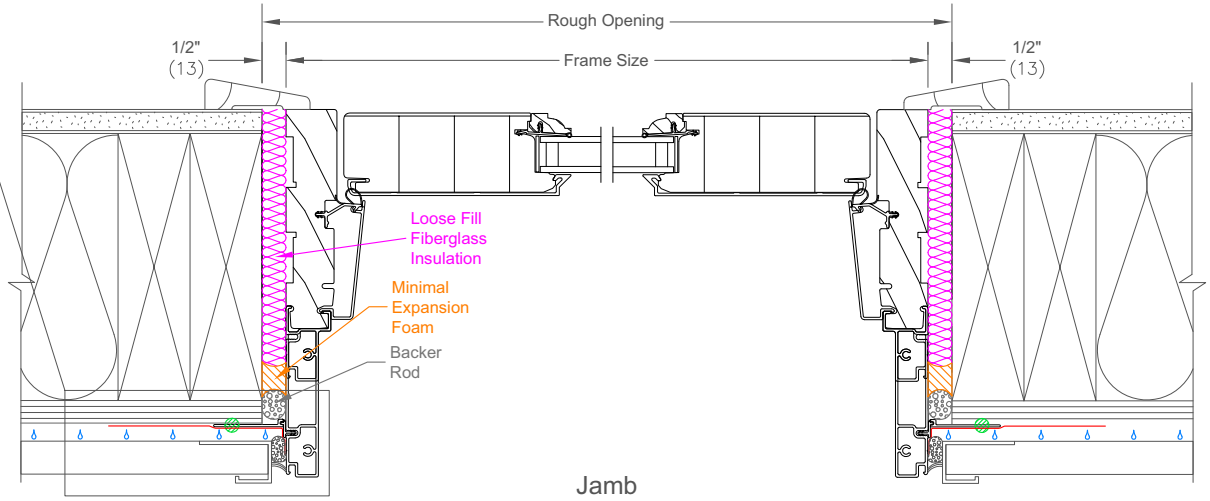
Scale: 3" = 1"0"





Head Jamb and Sill

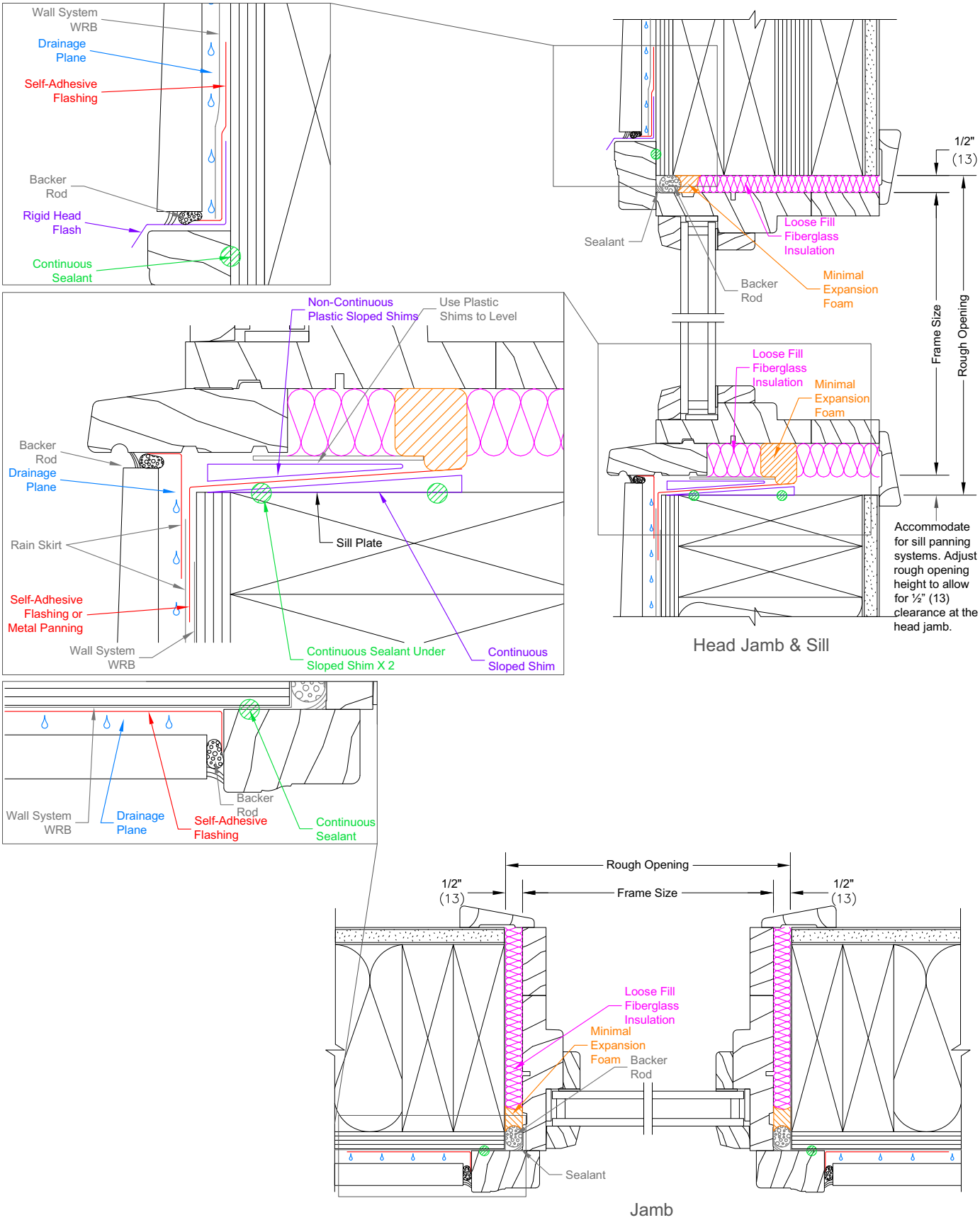




Jamb

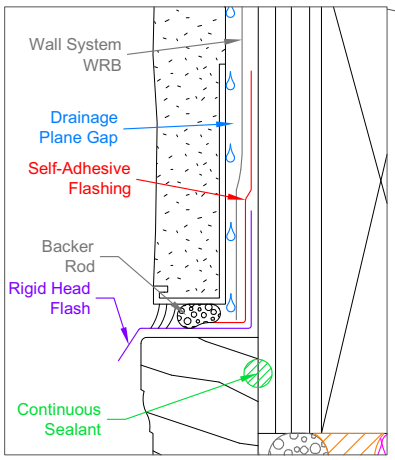
Wood Polygon - 2x6 Frame with Wood Siding

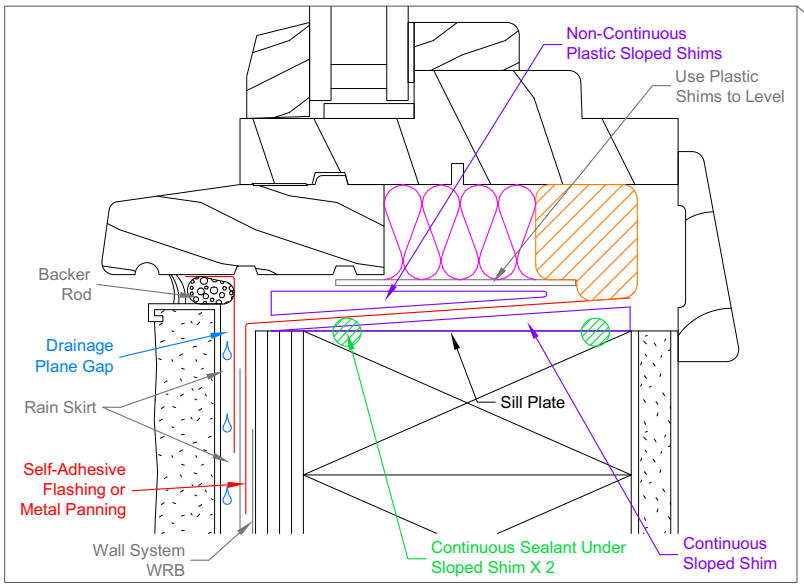
Scale: 3" = 1"0"

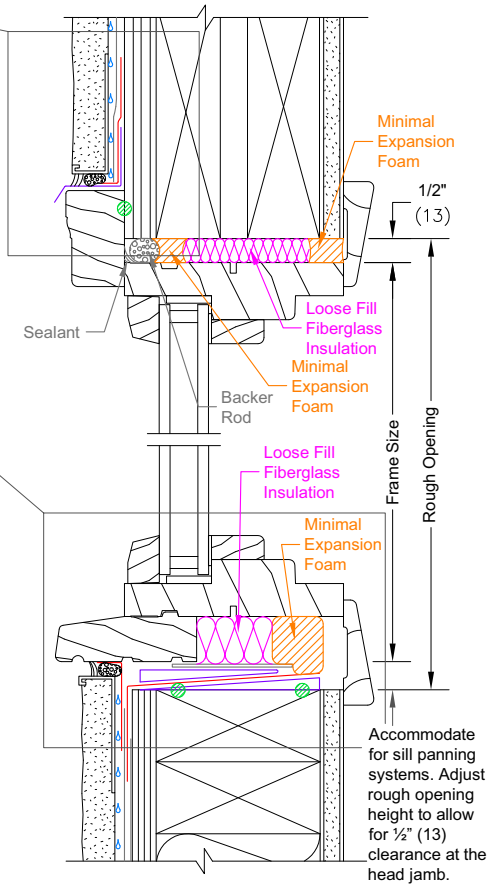


Wood Polygon - 2x4 Frame with Stucco

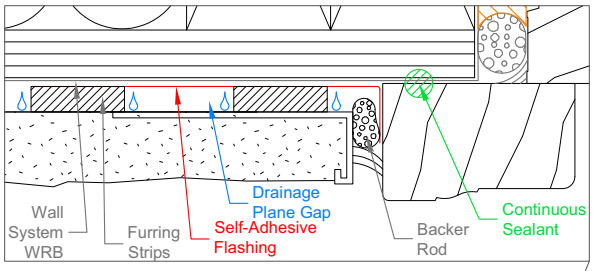
Scale: 3" = 1'0"

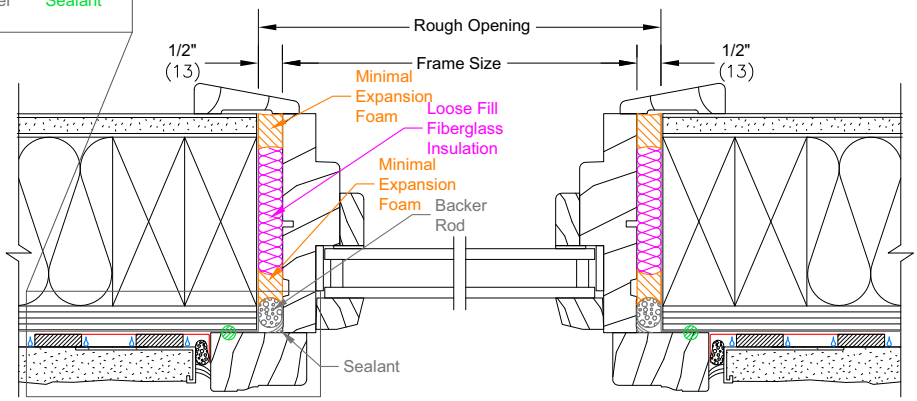






Head Jamb & Sill





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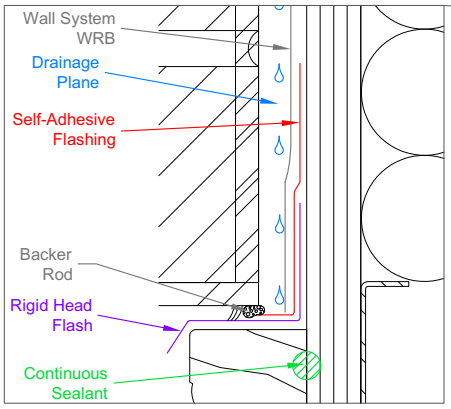
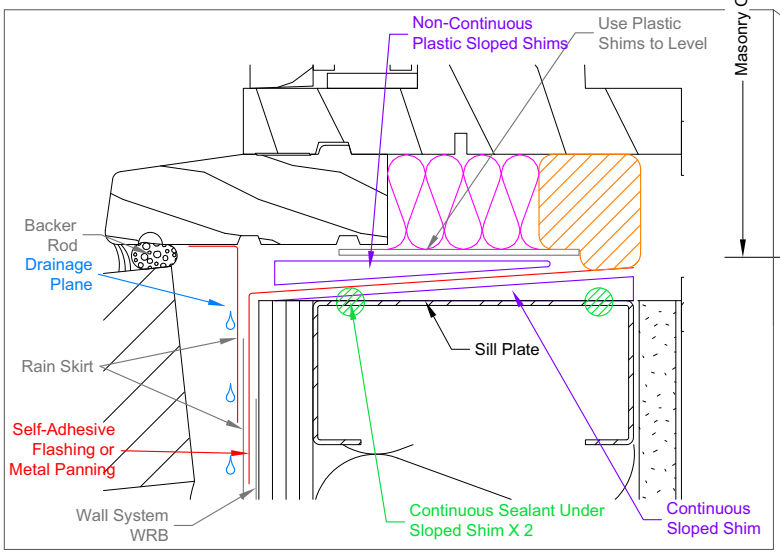
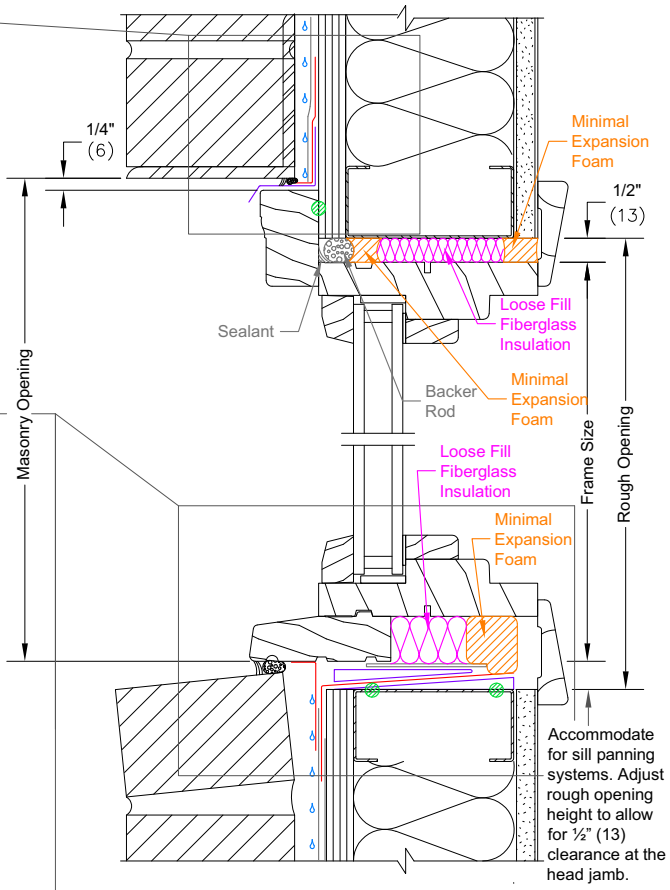
Wood Polygon - 2x4 Steel Stud with Brick Veneer

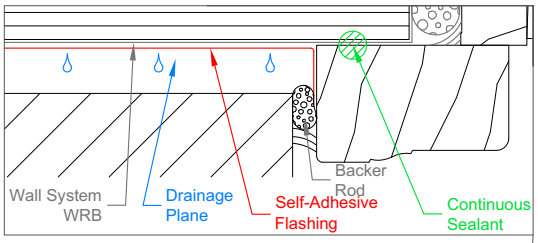
Scale: 3" = 1'0"

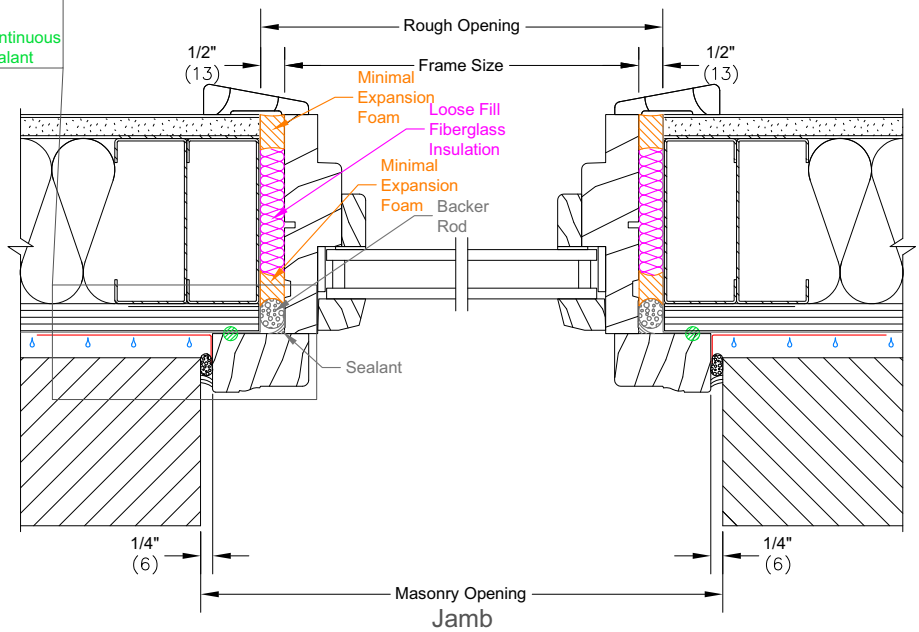






Head Jamb & Sill

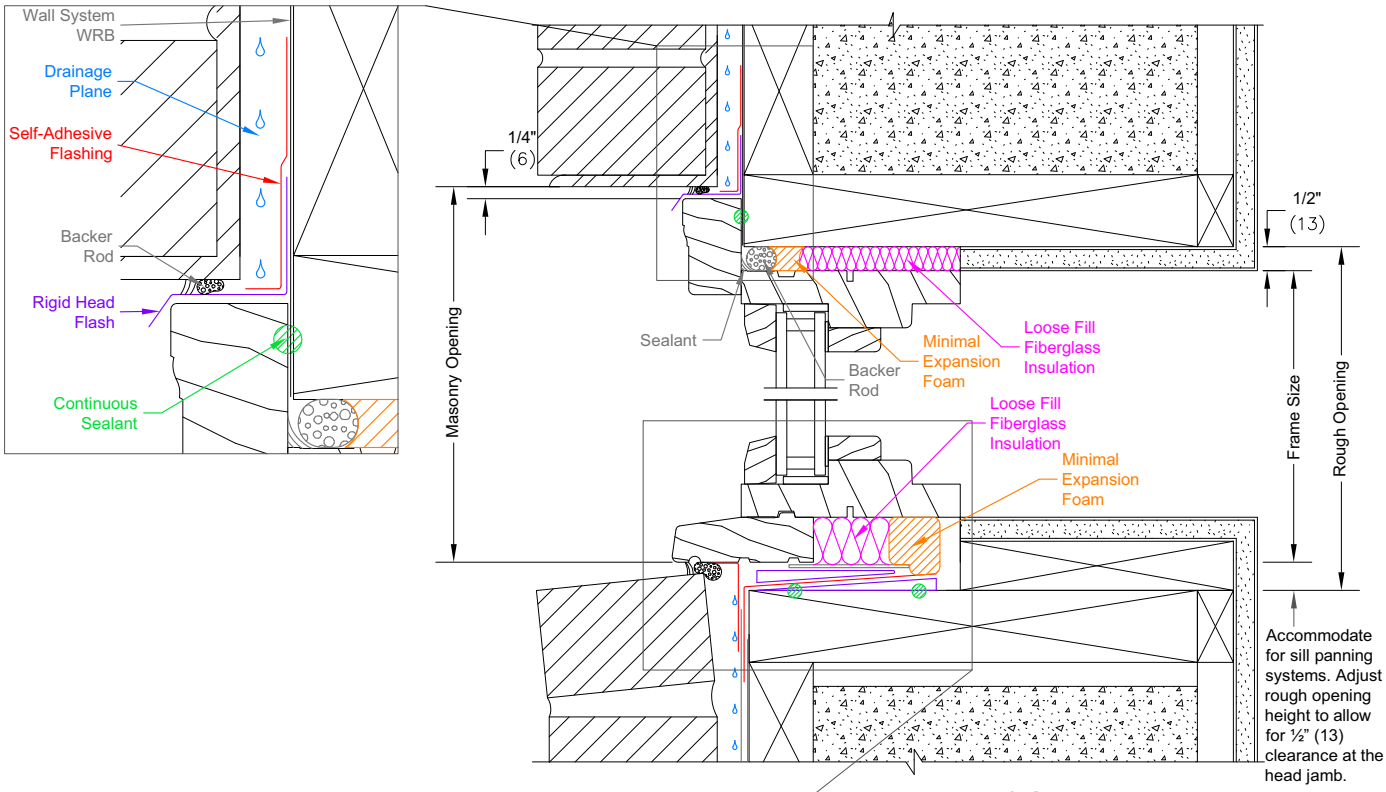




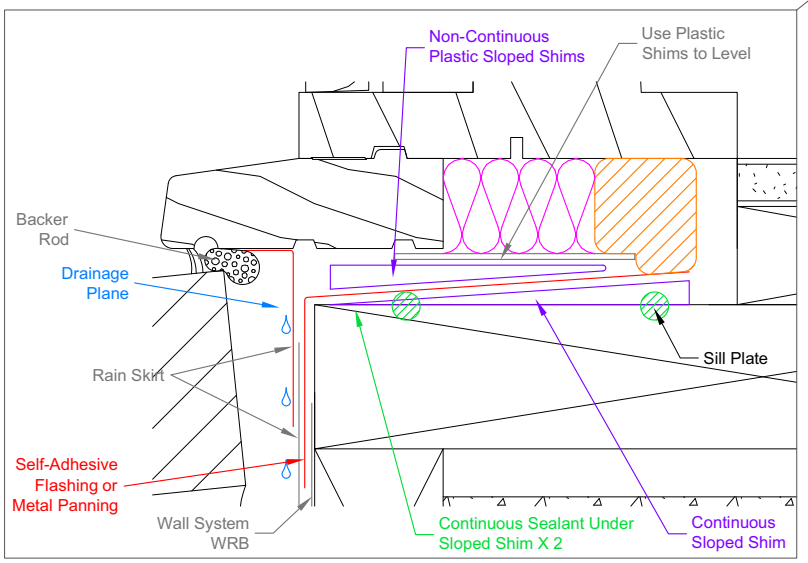
Jamb

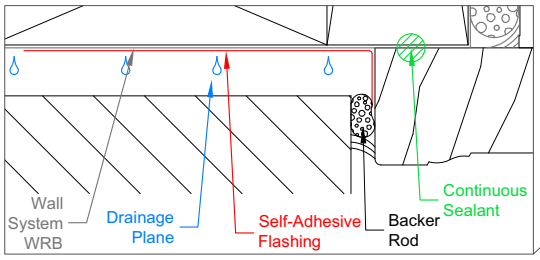
Wood Polygon - Concrete Block with Brick Veneer

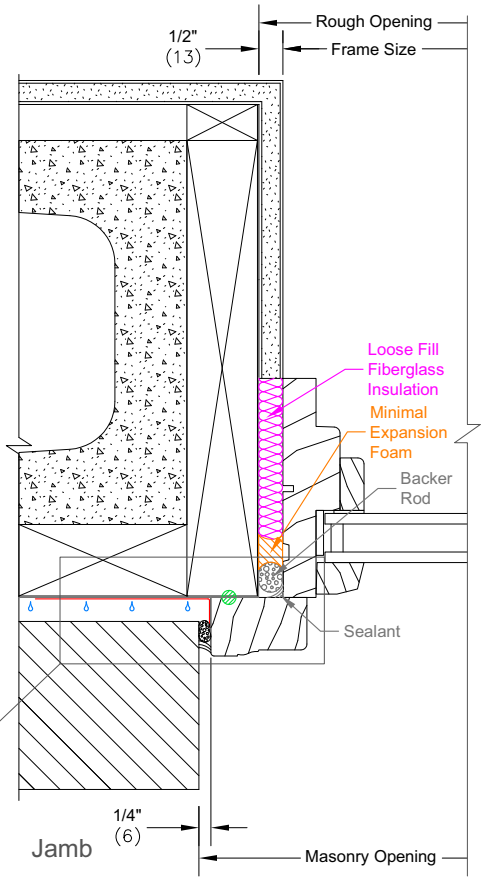
Scale: 3" = 1'0"



Head Jamb & Sill



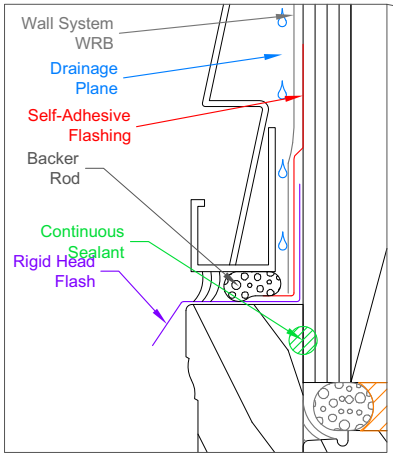


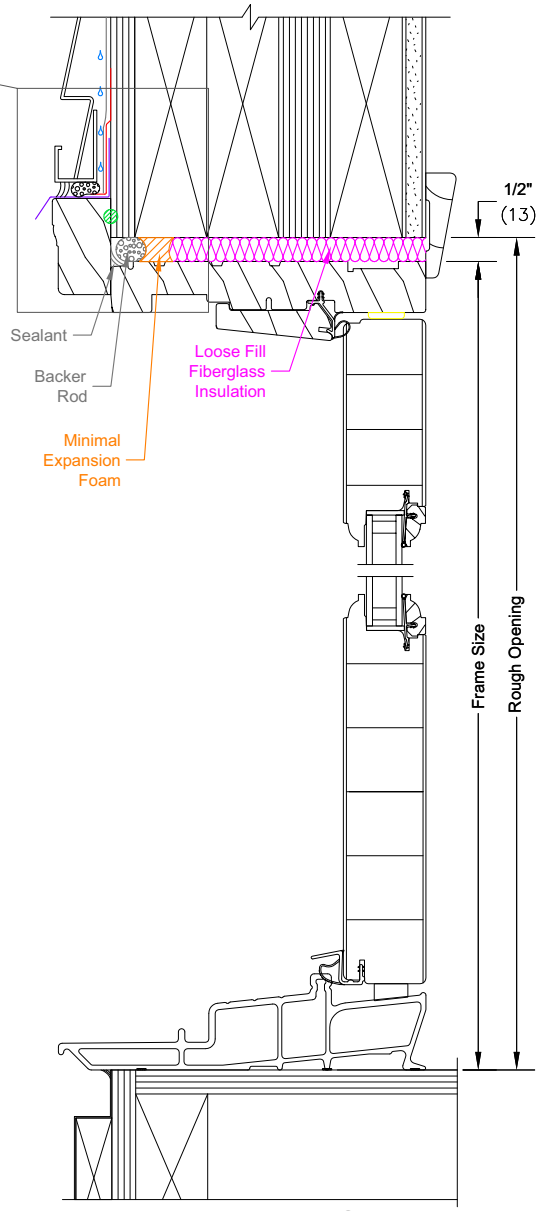


Jamb

Wood Ultimate Inswing French Door - 2x6 Frame with Steel Siding

Scale: 3" = 1'0"





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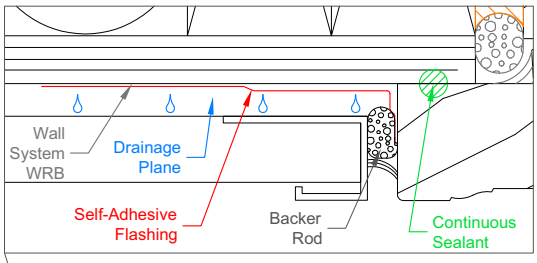

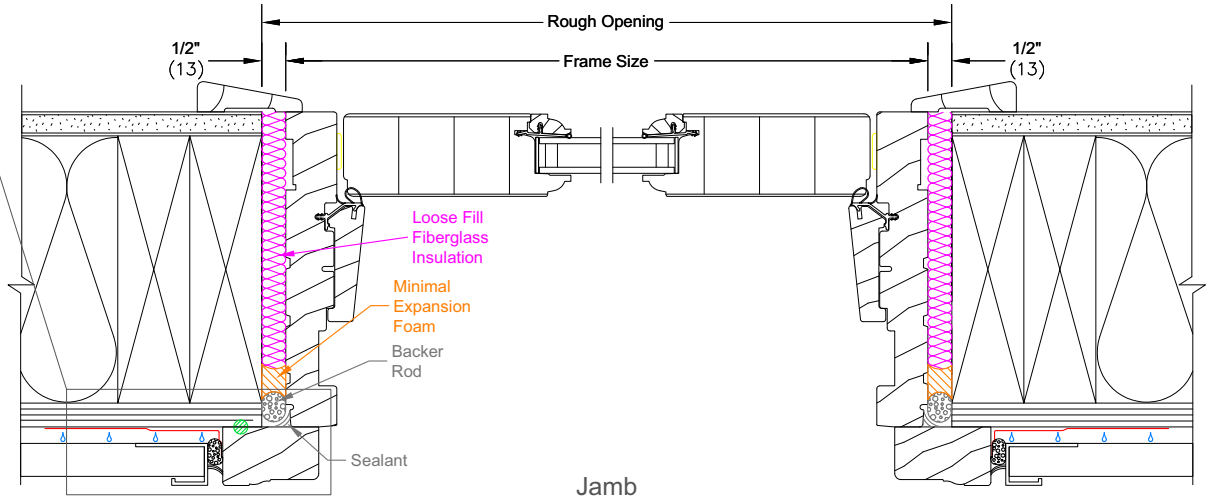

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