

# Ultimate Bi-Fold Door

## Site Prep Guide

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**ABSTRACT:** The Ultimate Bi-Fold Door system requires proper site preparation to ensure optimal performance and operation after installation. The Clad Ultimate Bi-Fold Door Instruction will provide the necessary information to properly prepare the wall opening for ease of installation and operational integrity.

Site preparation begins with prepping the opening for the specified sill system. The selected sill and substrate must offer the door system support which spans the width and depth of the unit. The exterior sill liner must be completely supported. Several sill options are available for consideration. Regardless of sill type, the foundation must support the sill height variance requirement of 1/16" (2) maximum across the entire sill length.

In conjunction with the sill, the framing of the rough opening must be installed plumb, square, and true within 3/16" (5). The header must be flat and designed to uphold the deflection requirement. Side jambs and pocket framing must be constructed of a continuous flat solid surface that is plumb.

### IMPORTANT

Unfactored superimposed load (Live, Wind, or Snow) deflection over the entire length of the unsupported span cannot be greater than 1/8" (3) after natural sag of the beam and permanent loads are in place.

### WARNING!

Always practice safety! Wear the appropriate eye, ear, and hand protection, especially when working with power tools.

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## Center Screen

To ensure proper integration with the Ultimate Bi-Fold door, the Center Screen must be included in the door site preparation.

For instructions on how to install your Screen, please follow this link:

[Center Screen Instructions](#)

To watch the installation video, follow this link:

[Center Installation Video](#)

To watch a video on the benefits and features of the screen, follow this link:

[Screen Benefits and Features Video](#)

# Rough Opening Detail

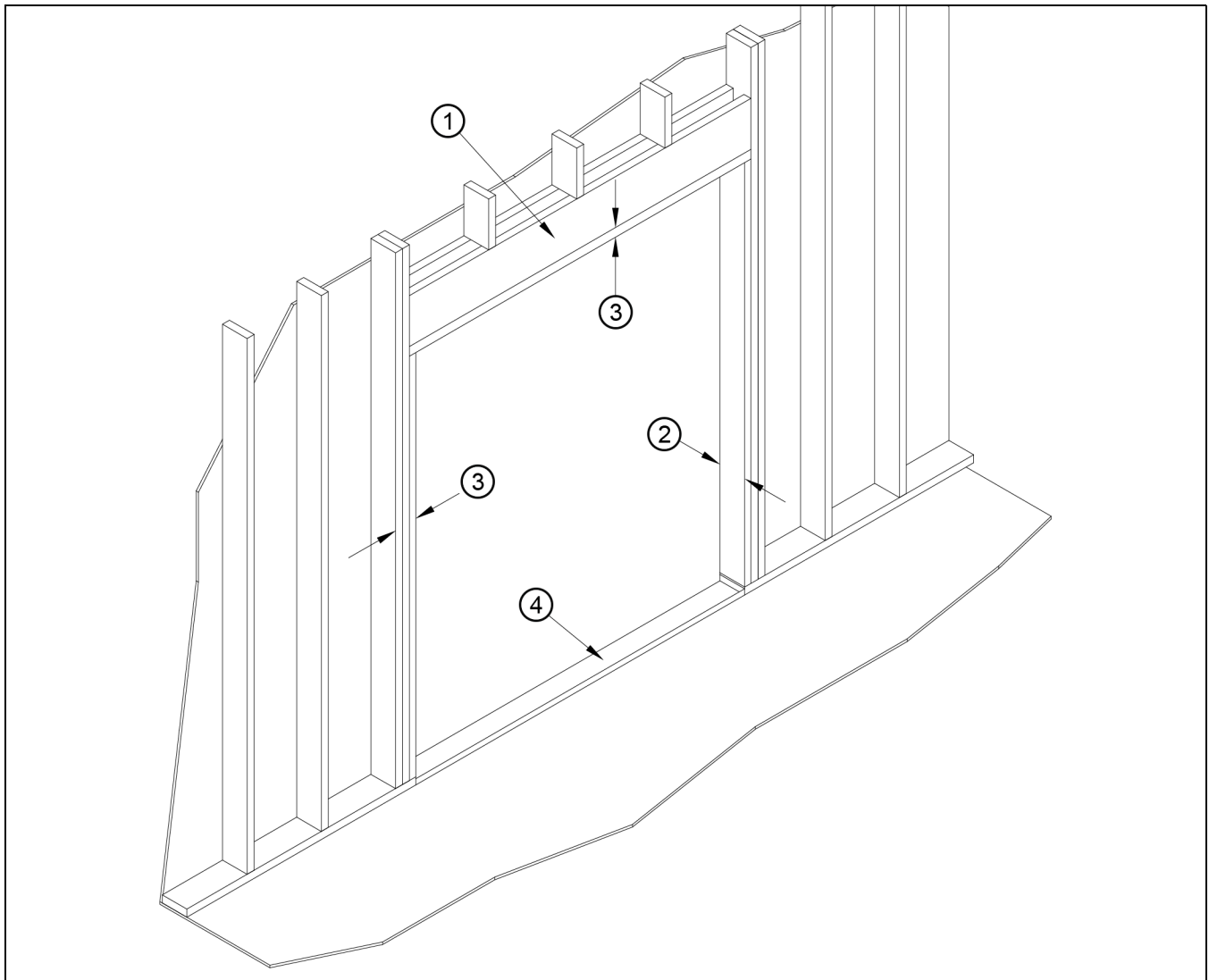


Figure 1

1	Header- Header must be able to carry the full load of the door panels. This load can be approximated by using 7 psf. For header load deflection calculations, the panel weight should be factored as permanent load.
2	Jamb Depth- The door is 5 9/16" standard, with the option of field applied jamb extension. If installing a screen, jamb extension is not an option and the rough opening must be stepped- see page 9 for dimensional detail.
3	Fastening Material- there must be a minimum of 2" of wood framing at the jambs and 3 3/4" at the head jamb to use supplied fasteners.
4	Sill Panning (required)- See <a href="#">Water Management-Sill Panning on page 3</a> for details.

# Water Management-Sill Panning

We require a sill pan for all Ultimate Bi-Fold doors in accordance with ASTM E2112. A sill pan is installed across the bottom of the opening and integrated into the weather-resistive barrier (WRB). The illustration below show the basic requirements. Modification may be needed depending on your Rough Opening and alternative field preparation.

Types of Pan Flashing Material (Based on ASTM E2112)		
Rigid Sheet	1 piece or multiple pieces	Type I
Rigid Sheet	Multiple pieces	Type II
Flexible Membrane	1 piece or multiple pieces	Type III
Combination Syhstem	Multiple pieces	Type IV
Liquid Membrane	Continuous coating	Type V

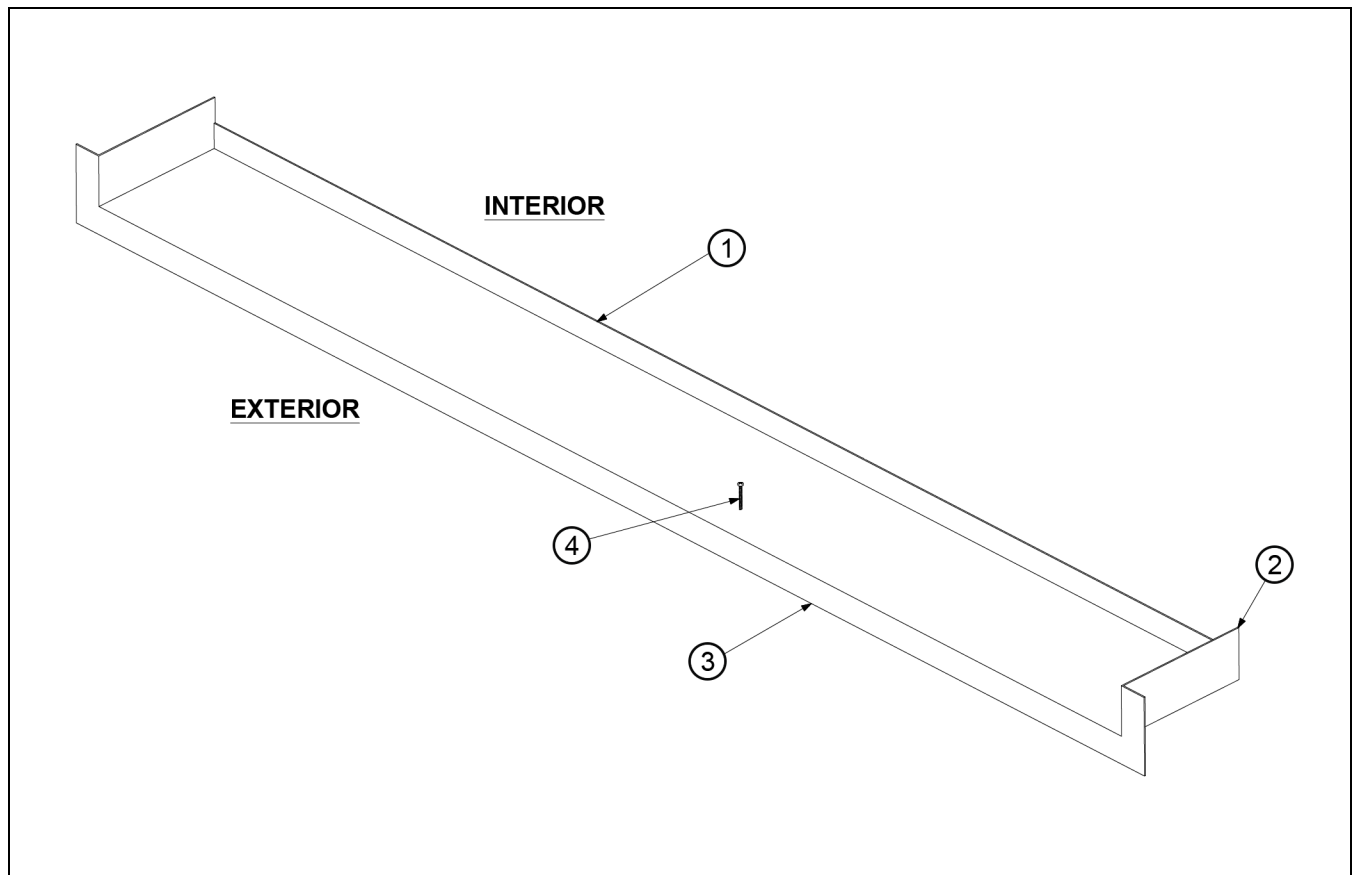


Figure 2

1	Rear leg 1/2" maximum. Sealant between panning and door sill may be used in lieu of rear leg.
2	End dams 4" minimum
3	Front flange 2" minimum
4	When fastening through the pan, put sealant into the pre-drilled hole, then install screw per ASTM-E2112.

# Construction Details

The following details are recommendations with different installation scenarios. Changes may need to be made to accommodate other specific needs.

## IMPORTANT

Unfactored superimposed load (Live, Wind, or Snow) deflection over the entire length of the unsupported span cannot be greater than 1/8" (3) after natural sag of the beam and permanent loads are in place.

### Head Jamb/Header

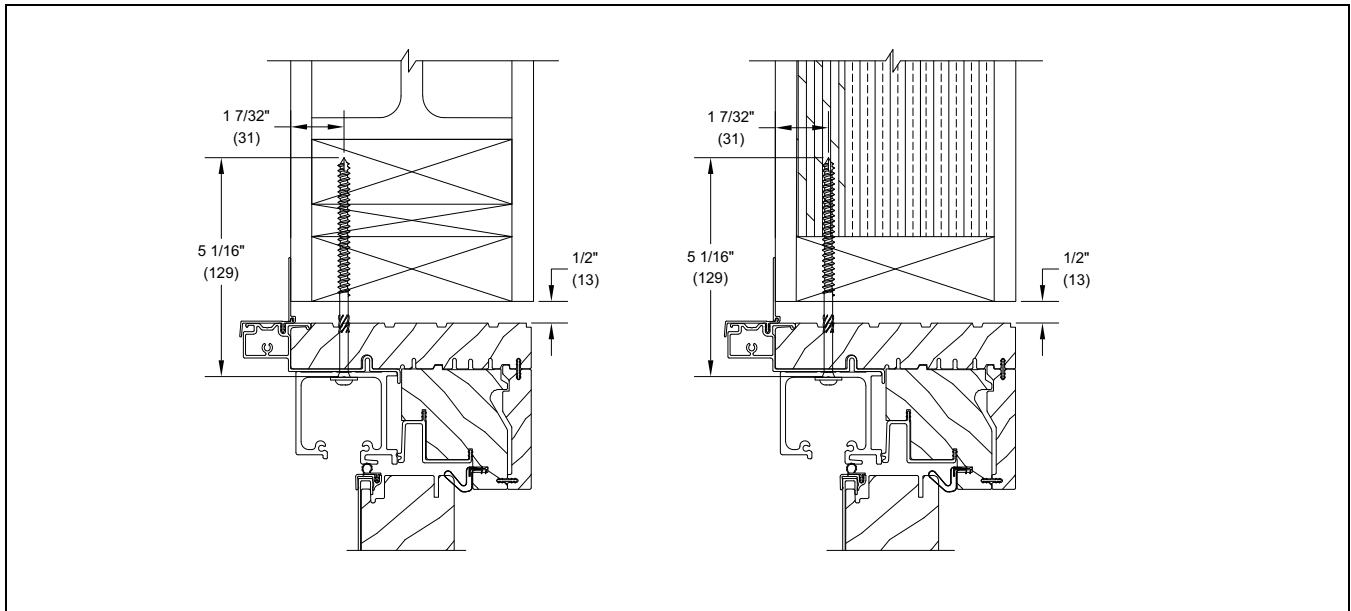


Figure 3

# Performance Sill

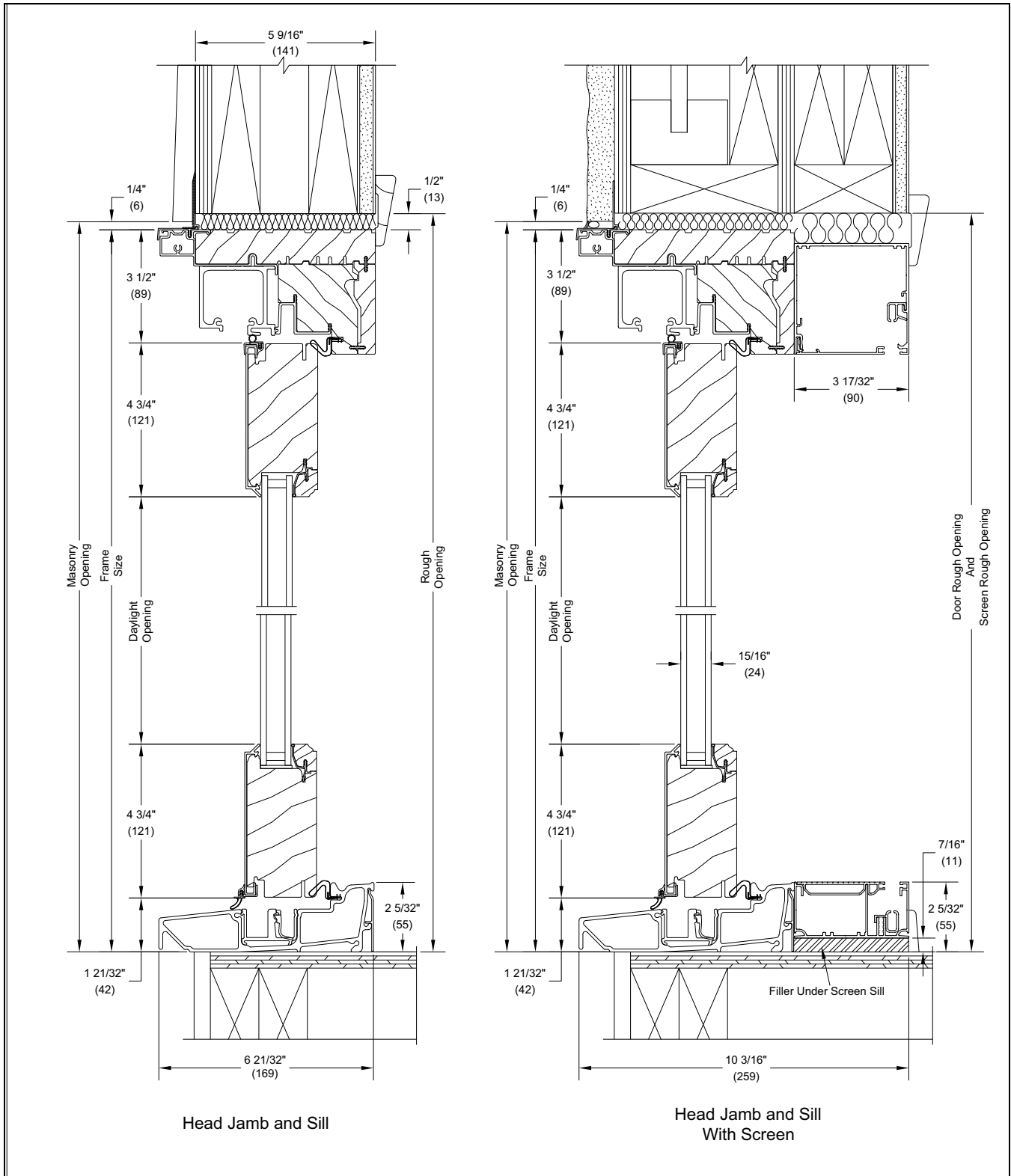


Figure 4

# Performance Sill Channel

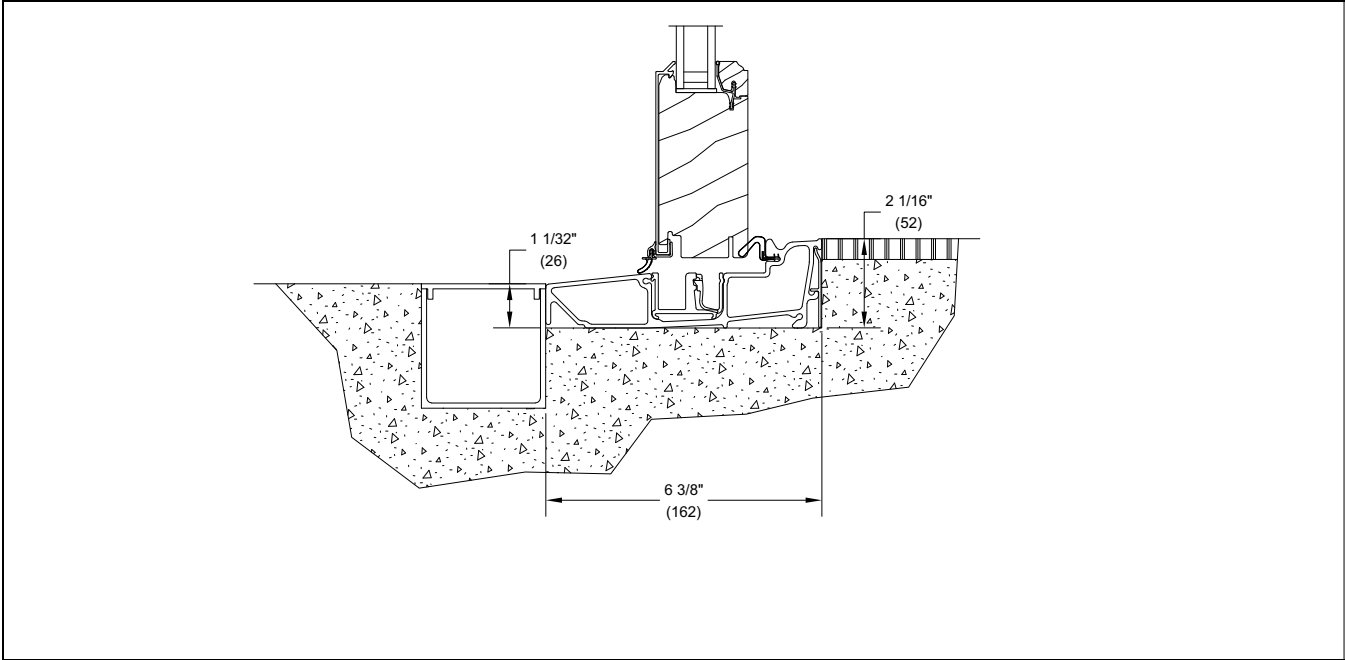


Figure 5

## IMPORTANT

Marvin does not provide drainage channel. The channel **must be modified** to allow the water to weep out at each corner of the door frame.

# Low Profile Sill

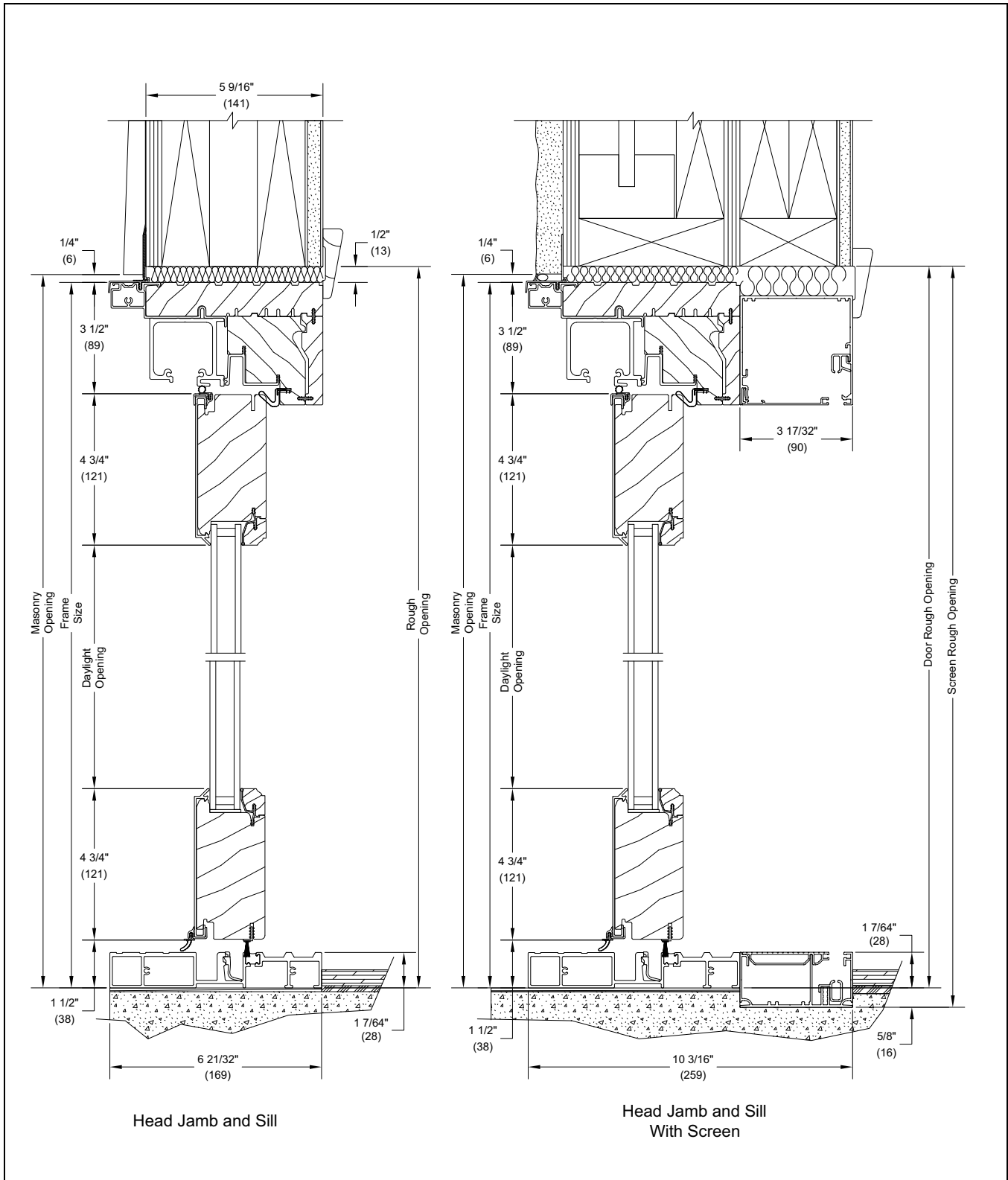


Figure 6

# Floor Channel

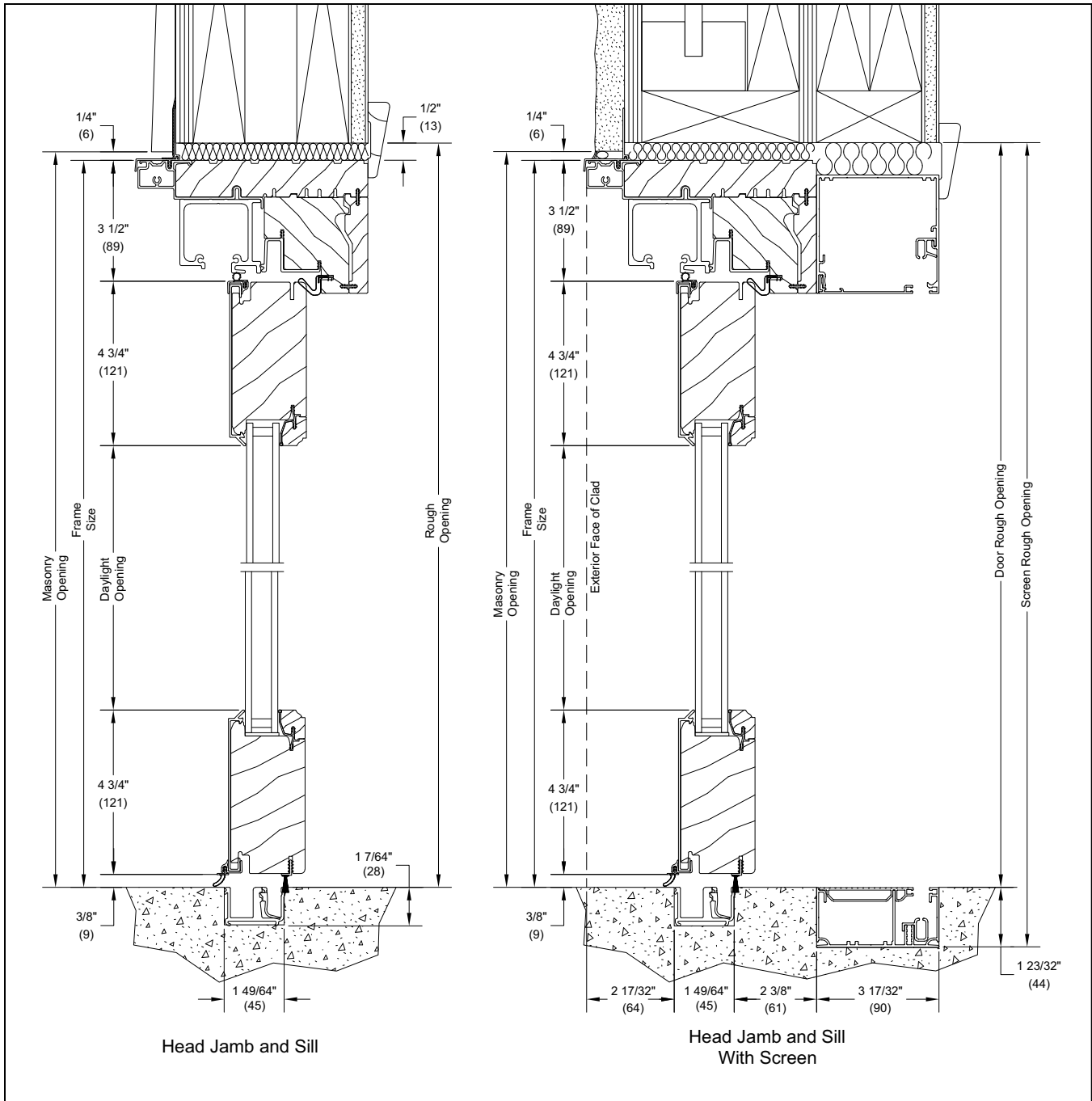


Figure 7



# Horizontal

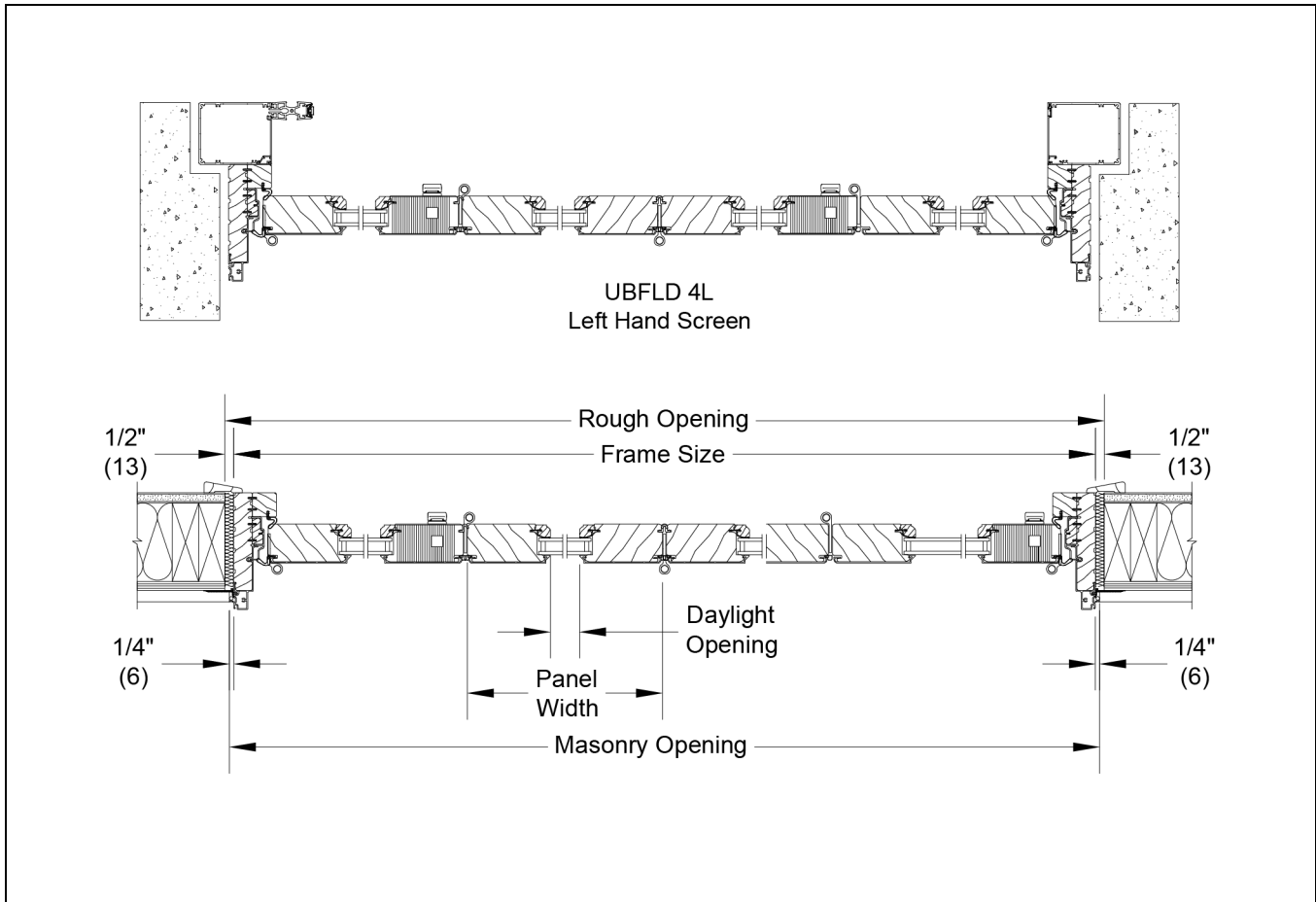


Figure 8