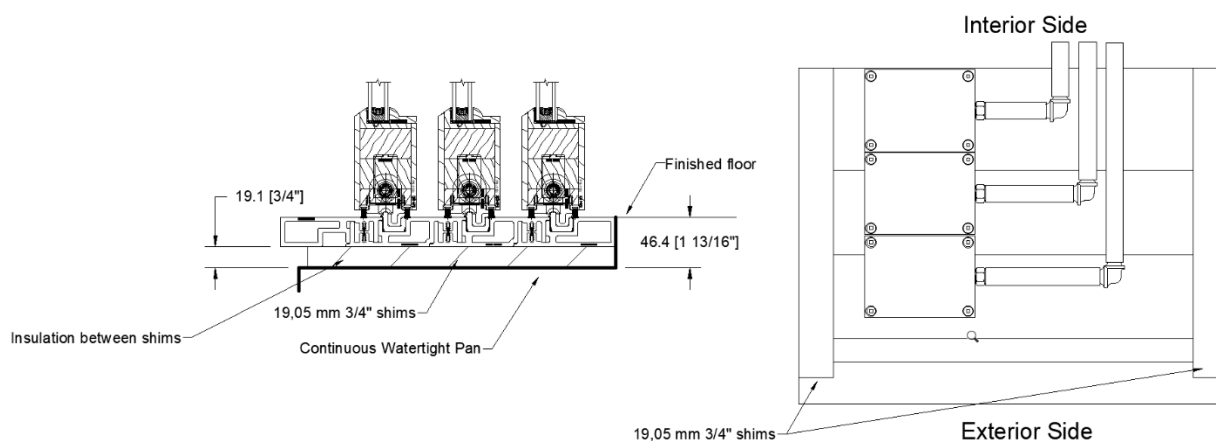




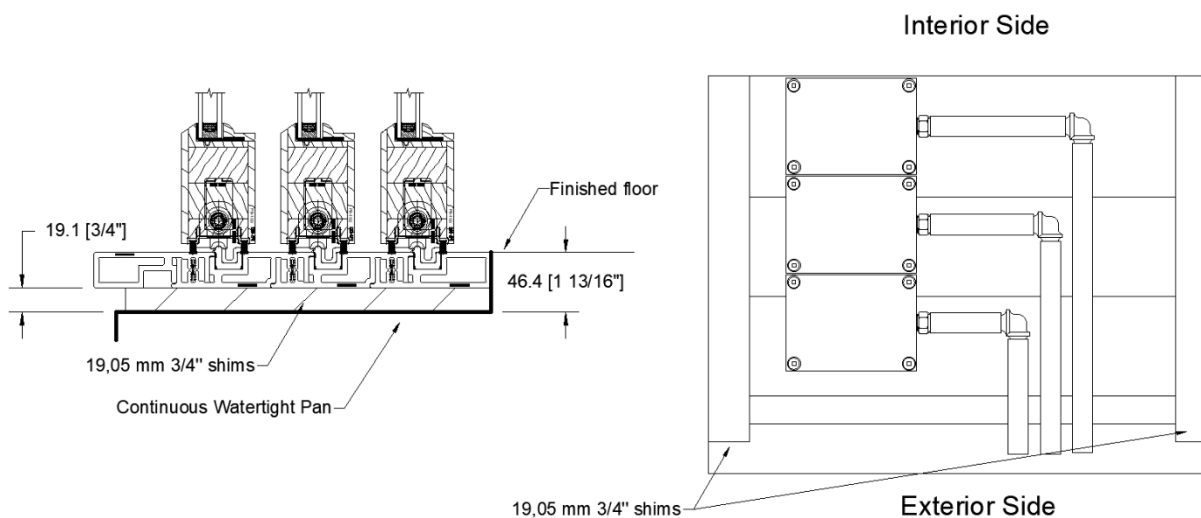
Preparation Requirements for the Rough Opening Based on Drainage Options

Available Drainage Options

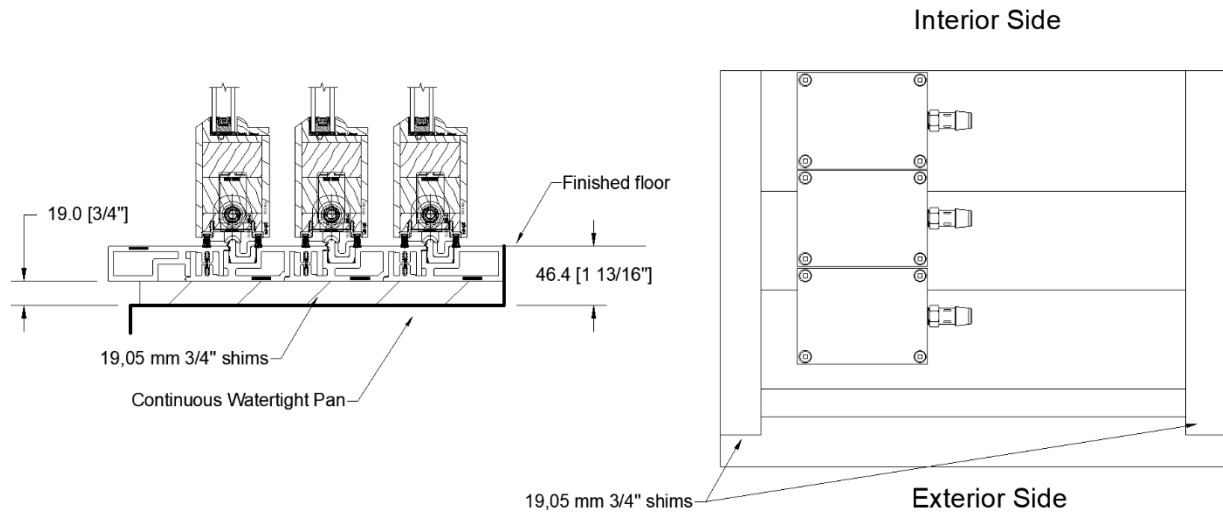
Option 1: Sill with internal drainage tubing—high performance against water infiltration, strongly recommended for cold climates.



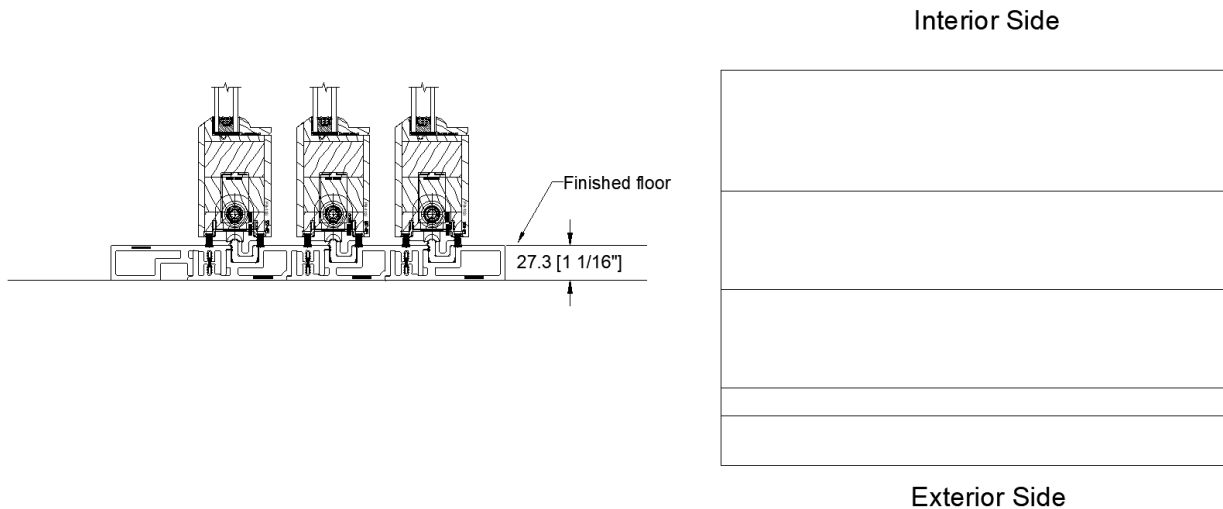
Option 2: Sill with external drainage tubing—standard performance against water infiltration, suitable for southern climates only.



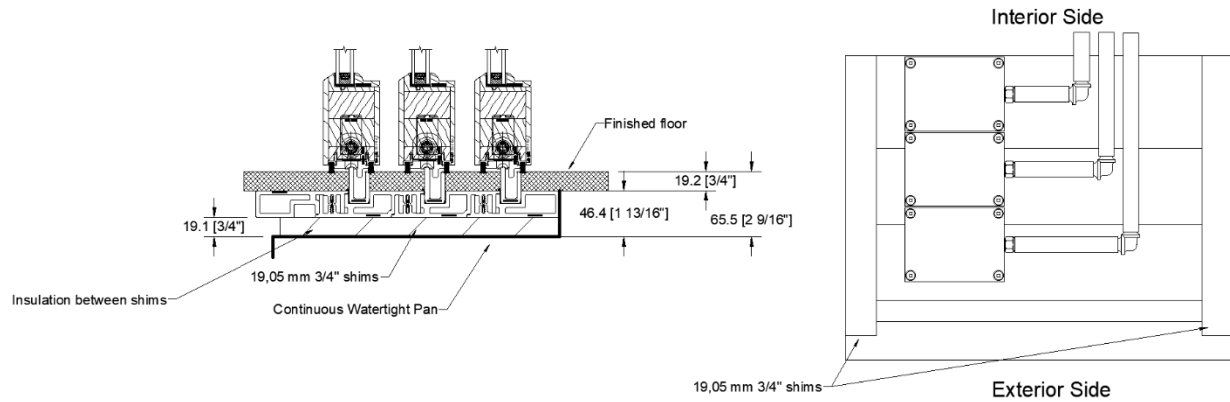
Option 3: Sill with external drainage pan—good performance against water infiltration, best suited for southern climates.



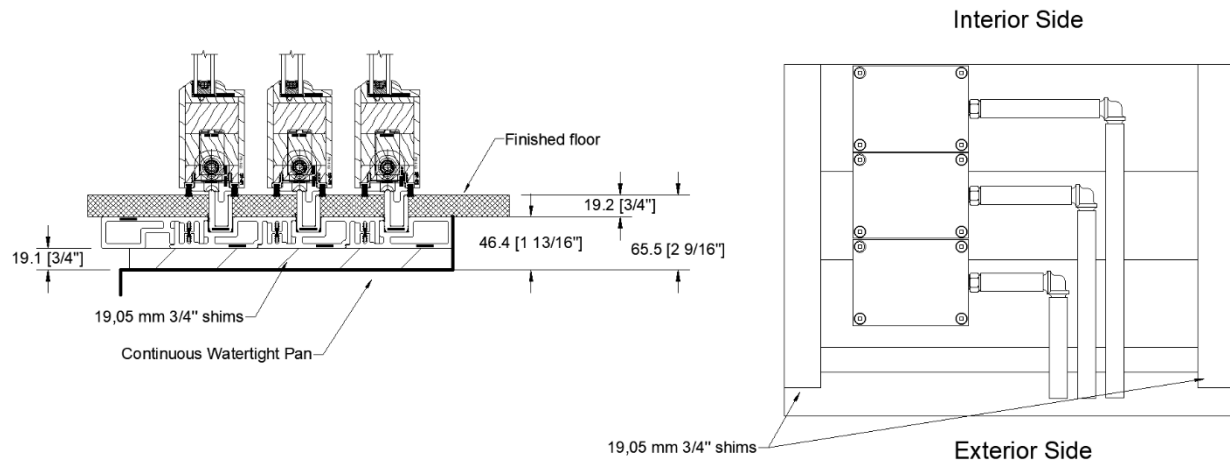
Option 4: Sill with no drainage—no protection against water infiltration.



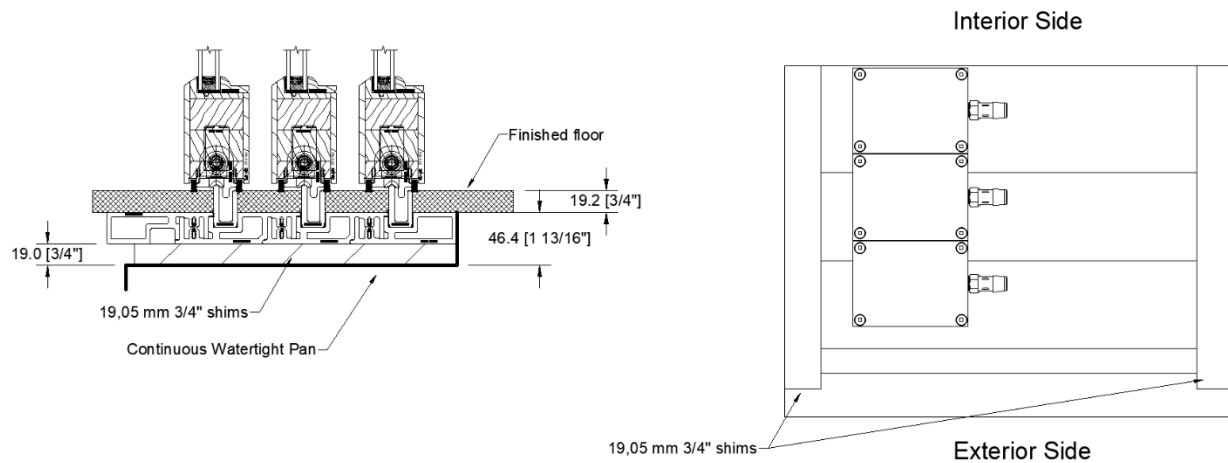
Option 5: Recessed sill with internal drainage tubing—high performance against water infiltration, strongly recommended for cold climates.



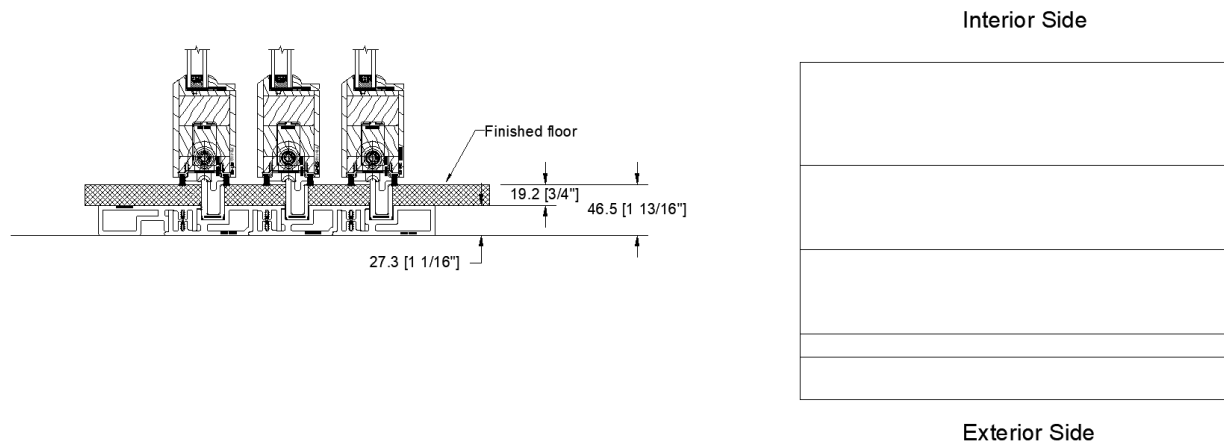
Option 6: Recessed sill with interior drainage tubing—standard performance against water infiltration, suitable for southern climates only.



Option 7: Recessed sill with external drainage pan—good performance against water infiltration, best suited for southern climates.

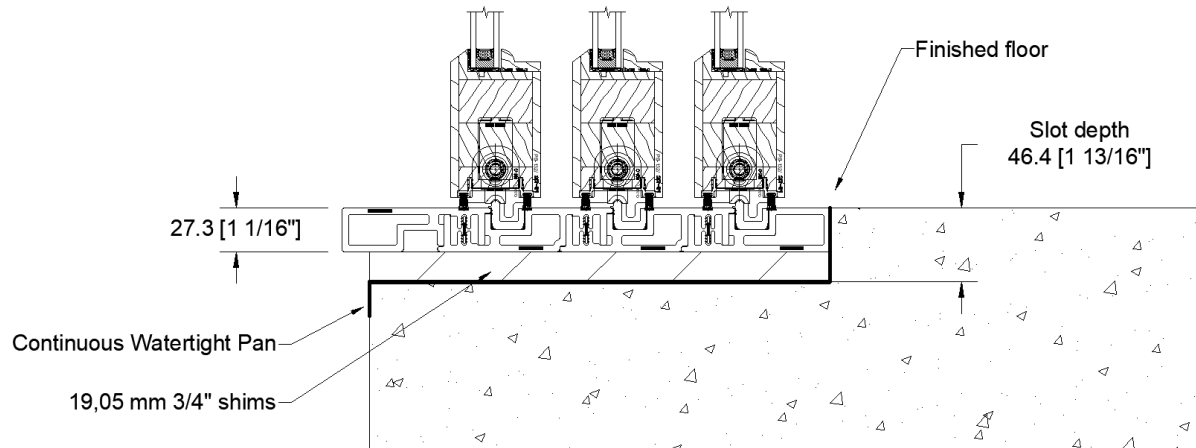


Option 8: Recessed sill with no drainage—no protection against water infiltration.

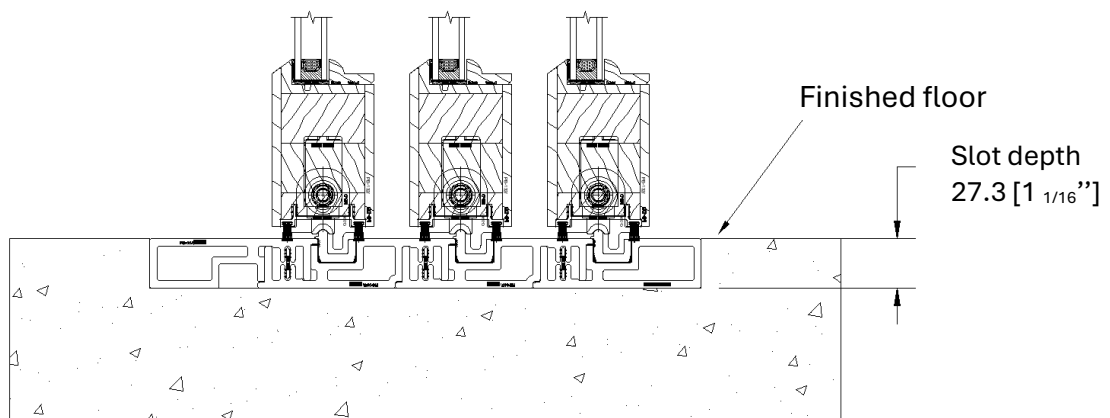


Requirements Based on Drainage Option

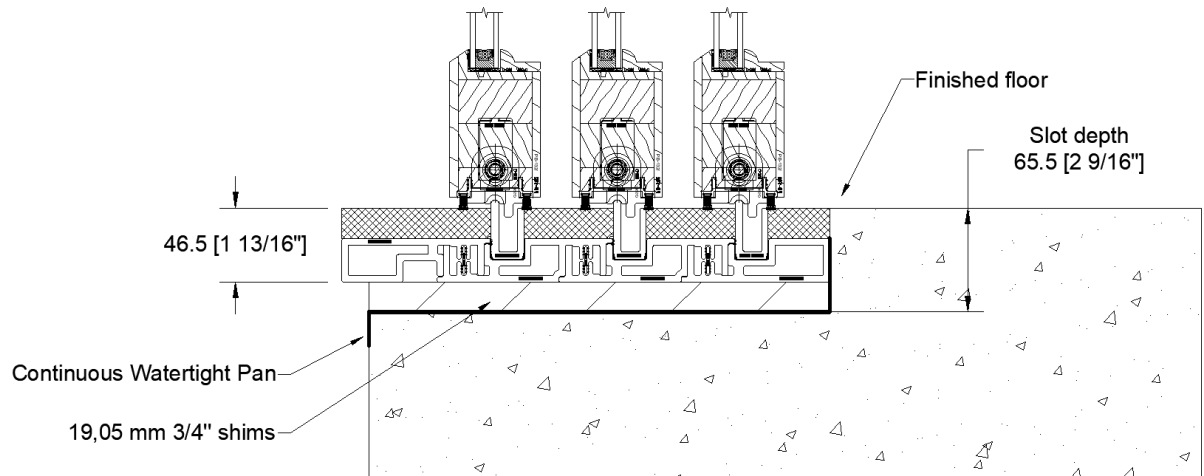
- **Options 1 to 3:** Standard sill with or without drainage.
 - **Important:** You must include a 19.05 mm (3/4 inch) shim in your rough opening.



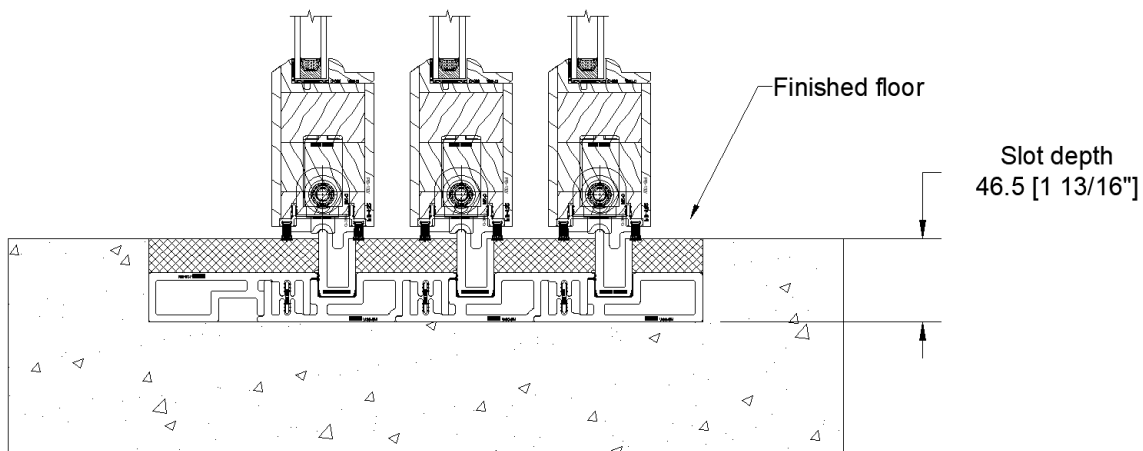
- **Option 4:** Sill without drainage—for interior applications or use where no protection against water infiltration is required.



- **Options 5 to 7:** Recessed sill with drainage.
 - **Important:** You must include a 19.05 mm (3/4 inch) shim in your rough opening.



- **Option 8:** Recessed sill without drainage—for interior use or where no protection against water infiltration is required.



Sill Drainage Considerations

Proper planning is essential for any **sill that requires drainage**:

In **cold climates** with risks of freezing, we strongly recommend installing a **drainage system with interior tubing**. A plumbing connection must be planned to integrate the door's drainage tubes and must be approved by a certified plumber.

For **concrete installations**, recesses must be provided to accommodate the sill, drainage tubing, and plumbing connections.

For **exterior drainage systems using tubes or a pan**, the connection may be directed to a French drain or a surface runoff system.

For **non-draining sills** (e.g., interior doors, covered doors, or when the client waives the drainage warranty), only a properly recessed opening in the concrete is required. For wood structures, the recess must also be appropriate to ensure proper installation and alignment.

If you choose **fully recessed doors with raised tracks**, ensure the recess depth allows for perfect alignment between interior and exterior finishes.

In **all drainage scenarios**, a **drainage pan** must be installed beneath the sill for added protection. Acceptable materials include copper, aluminum or a liquid or bituminous membrane, ensuring compatibility with building materials and compliance with local building codes.