TECHNOTES

Installing Pella Products in Metal Buildings

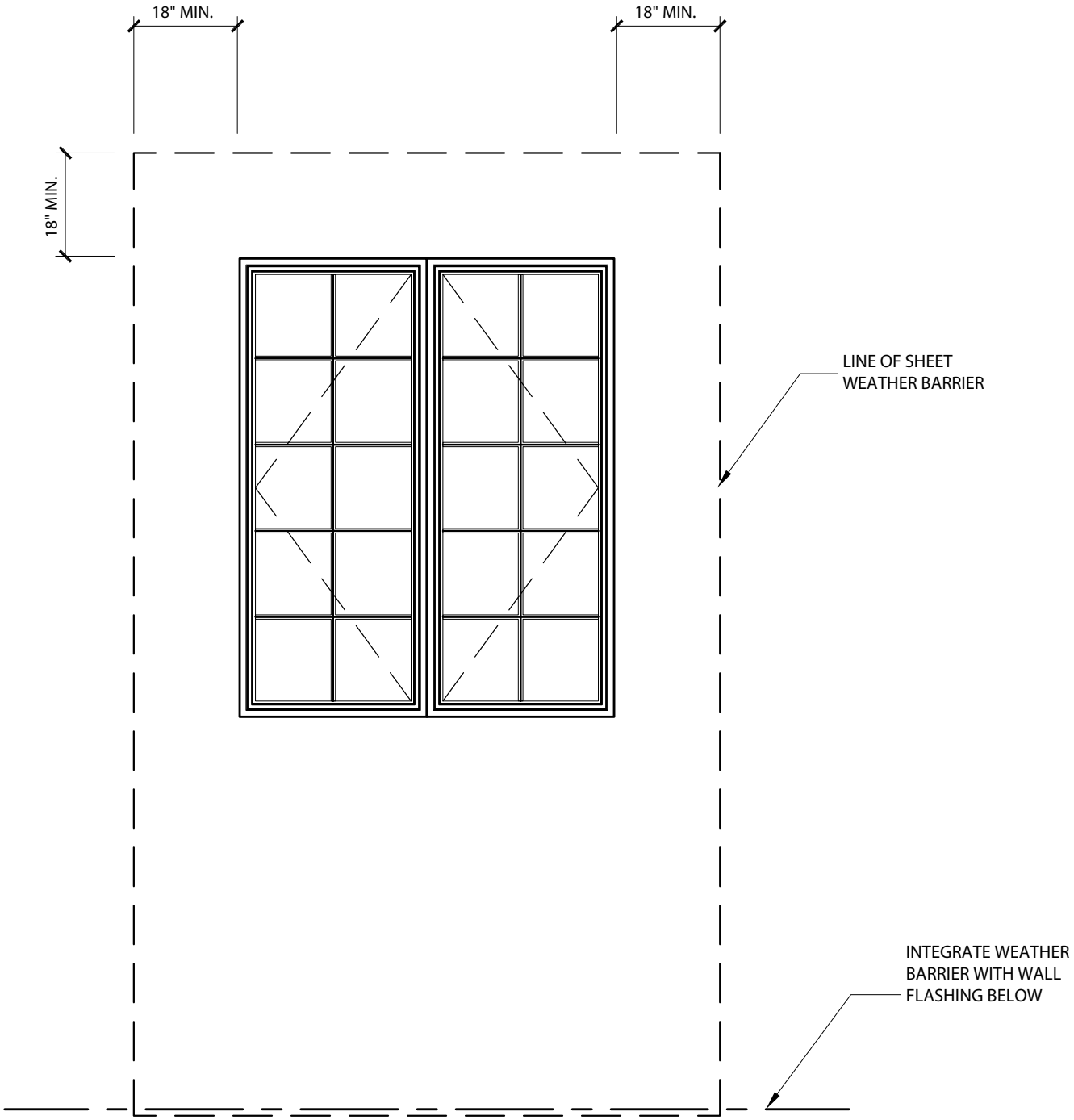


Design Considerations

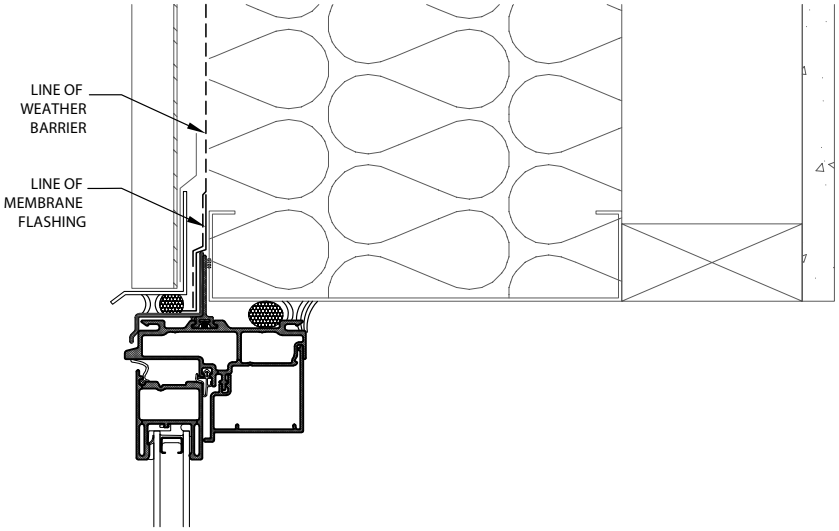
1) The walls on commercial steel or metal buildings are commonly constructed without wall sheathing or a weather barrier. These types of walls can be described as barrier walls, which presents a challenge when the wall is being penetrated for the purpose if installing windows and doors. While it is Pella's recommendation that a weather barrier be utilized throughout a building, the purpose of this Technote is to address how Pella recommends its products be installed in the type of wall construction that does not utilize a weather barrier system.
2) The primary issue for these type of product applications is managing water that could penetrate the exterior line of perimeter sealant. This line of sealant is intended to deflect bulk water and is subject to deterioration due to exposure to the elements. If a drainage cavity or plain in the wall is not present to direct this water penetration down and to the outside then the window and door installation will have failed, and the wall will have been compromised.
3) Pella windows and doors in new metal buildings typically utilize an installation fin. To address the issue of how to manage water once it penetrates the exterior line of perimeter sealant Pella recommends that a sheet weather barrier be installed around the perimeter of the window and door opening that is integrated with the installation fin, effectively recreating what is one of the most common Pella product methods of installation as shown in Pella installation instruction New Construction Installation After Building Wrap for Nail Fin Windows. Note that the sheet weather barrier below window sills is extended down to the base of the metal siding where it is integrated with wall flashing.

Warranty Considerations

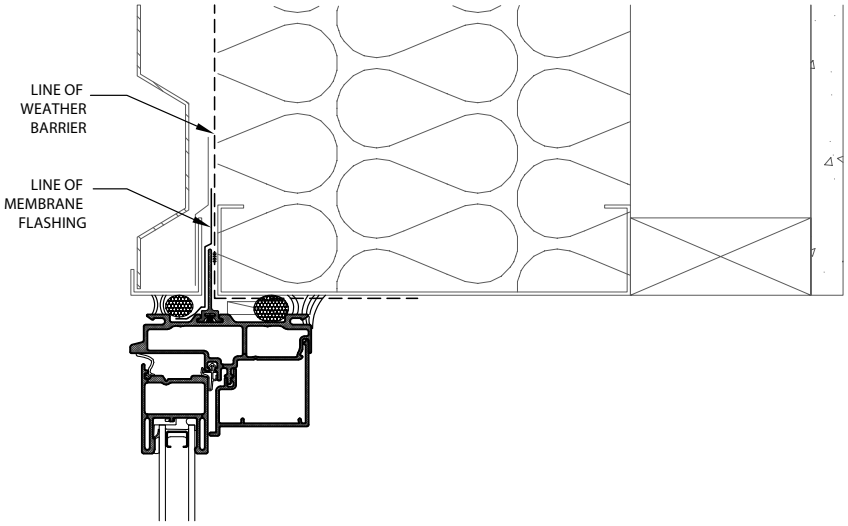
The walls of a commercial steel or metal building are typically barrier walls. Failures that occur as a result of the installation of Pella products in a barrier wall are not covered by Pella product warranty. To address this issue, it is required that window and door installations in metal buildings perform in a way that properly manages the intrusion of incidental moisture and utilizes a method of installation that has been approved by Pella Corporation.



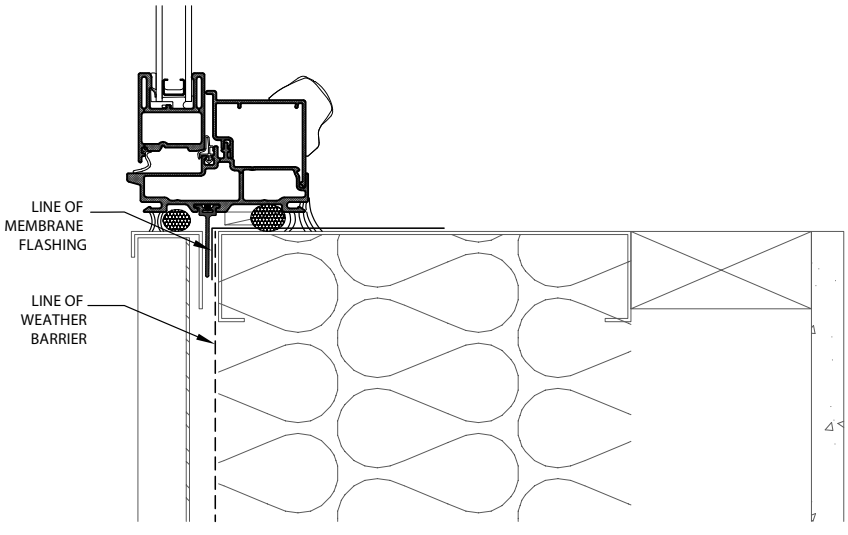
ELEVATION



HEAD



JAMB



SILL