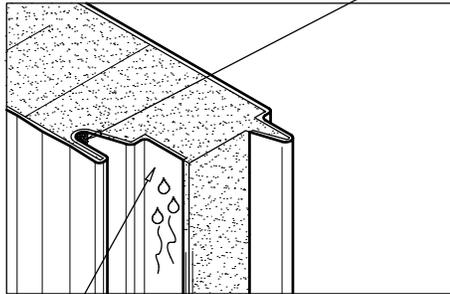
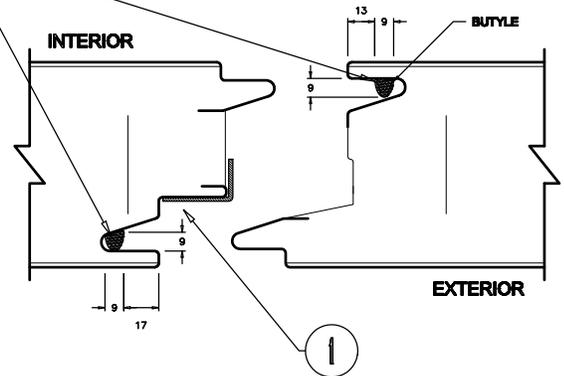


FACTORY APPLIED BUTYL
 DURING THE MACHINING PROCESS
 (CHECK AND FILL GAPS AS REQUIRED
 AT THE CONSTRUCTION SITE)



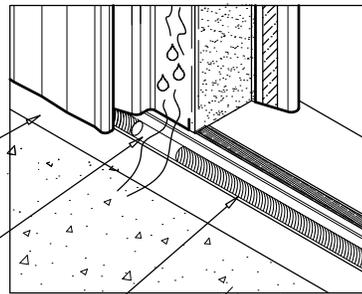
1 DECOMPRESSION CHAMBER
 ALLOWING A PRESSURE BALANCE
 WITH THE ATMOSPHERIC
 PRESSURE. THE WATER IS
 DRAINED TO THE WEEP HOLE AT
 THE BOTTOM.



1

1

SELF ADHESIVE
 VAPOR BARRIER MEMBRANE



2 BACKER ROD FOAM WITH SEALANT
 AND WEEP HOLE AT EACH PANEL JOINT
 ALLOWING PROPER SEALING AND
 WATER DRAINAGE OUT OF THE ENVELOP.

SEALANT

Water infiltration can cause major problems to wall systems and shorten building life. The rainscreen concept is commonly used within curtain-wall systems to control potential water infiltration. Quite some time ago, Norbec Architectural adapted this concept to Norlam panels and more recently, to Norex and Noroc panels.

A pressure-equalized rain screen provides a double barrier in controlling water infiltration. The first involves sealing the panel joint in the exterior overlap with a continuous bead of butyl applied at the factory. In the unlikely event that water does infiltrate by capillary action, it cannot get beyond the equalization compartment in the joint. This cavity is open to the exterior of the building via the weep hole at the base of the panel. The pressure equalizes with the atmospheric pressure which prevents water from being aspirated further inward, as can often result from the building's normally negative pressure. The water that would otherwise infiltrate is redirected outward through the weep hole at the base of each panel, which constitutes the second line of protection.

The integrity of the building's vapor barrier is achieved by using a second continuous bead of butyl in the interior overlap applied at the factory. Even should the seal on the inner side fail, the suction effect between the building's outer and inner sides is canceled by the pressure equalization cavity.

Factory sealing the exposed polyurethane faces in the joint with a plastic film eliminates all risk of water infiltration in the insulation. This film also minimizes the loss of insulating gas in the polyurethane cells, which is an issue with this type of product.