DASMA Technical Data Sheet #298
Water Infiltration Under the Bottom Bar of a Rolling Steel Door
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Introduction

It is a common occurrence with exterior facing rolling steel doors, including counter doors, for rainwater to migrate past the bottom edge to the interior of the space. This can cause unwanted and unnecessary accumulation in the interior of a structure and can even cause water damage if not addressed properly during construction. This Technical Data Sheet provides suggestions to help prevent this problem from occurring.

Scope

This Technical Data Sheet does not include water infiltration at the jambs or header, and does not include driven or pressurized water directed at or between the curtain slats.

Door Solution

A common practice used to prevent floor level water infiltration is a slightly inclined lip or sill (Figure 1) that the door rests upon. Alternately, a rectangular notch in the lip of the slab into which the door can rest and located below the slab grade (Figure 2) improves the door seal and greatly aids in disallowing water infiltration from the exterior environment to the interior.

Counter Door Solution

For an exterior facing counter door, a counter sloped several degrees toward the exterior (Figure 3) will not only be unnoticeable, but will improve water drainage away from the bottom bar of the counter door and help prevent migration and pooling to the interior.
Figure 1
Sloped Slab – Section View

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.
Figure 2
Notched Slab – Section View
Figure 3
Sloped Counter – Section View

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