Williams Products, Inc

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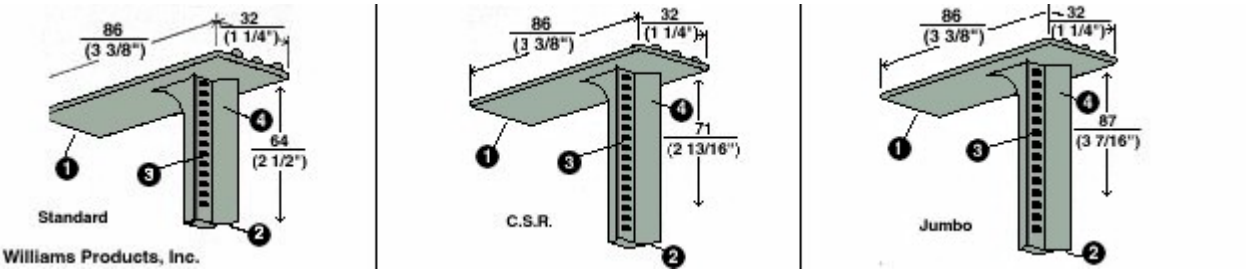


Description

The Williams-Goodco brick vent is an injection molded vent made from flexible polyvinyl chloride in an offset "T" shape. When inserted in vertical mortar joints between two bricks the slotted leg of the vent allows air to pass in and out allows water to weep out and prevents water from penetrating in.

Spacing of Brick Vents

Tests indicate that for interior/exterior air pressure equalization and for ventilation one Williams-Goodco Brick Vent to every 10 square feet of wall surface is acceptable. One per 100 square feet is a minimal number. For drainage of condensation and moisture the vents act as weepholes and should be placed directly on top of the thru-wall flashing. One vent for every 24 inches of horizontal flashing is acceptable to provide weephole drainage.

The vents are hardly noticeable after installation but a regular symmetrical spacing pattern gives the best appearance.

Functions

When rain contacts an exterior brick surface water can enter openings through any combination of the following actions: momentum of raindrops, capillary action, gravity and air currents. Cracks, joints between wall components, surface pores and inadequately bonded interfaces may provide the openings for water penetration through walls. Much of the water penetration through brick cavity walls is caused not by the driving wind and rain on the exterior face but by the suction created within the air cavity by the lower interior air pressure. This force is controlled by installing brick vents in sufficient frequency and size to allow almost immediate air pressure equalization. Since winds gust, rather than create steady pressure, vents must have enough opening area to allow a continuous exchange of air. Small tubes and wicks have generally proved inadequate because of their limited opening size and because they clog quickly.

Efflorescence
Efflorescence is reduced by minimizing rain wetting within the exterior wall. However, more absorptive brick will hold moisture from exterior rain, or condensation on the back face resulting from air leakage from the building interior, and under certain environmental conditions (particularly in late Fall) this presence of moisture can trigger efflorescence.

Glazed Brick, Paints or Silicones
When these materials are used, cavity walls are necessary to avoid serious problems. In most buildings, moisture laden air will leak from the building interior and unless some free passage is available to the outside, spelling, ice lensing or blistering can occur.

Test Reports
Tests have been conducted to determine the rates of air flow through the Williams-Goodco brick vent and to indicate acceptable spacing for exterior walls. The test procedures and results are published and available on request.

Material Specifications
The Williams-Goodco brick vent is manufactured from a polyvinyl chloride compound specifically designed for continuous exposure to weathering. This compound possesses excellent sunlight resistance, good low temperature properties and contains a polymeric plasticizer to ensure permanence. Physical Properties as determined on molded specimens by ASTM procedures:

Packaging
200 vents per carton.

Color
Light gray.
Special Colors Available.

Sizes
2-1/4", 3-5/8"
will fabricate special sizes

Short Form Specification
Williams-Goodco brick vents as supplied by Williams Products, Inc. shall be installed in the vertical mortar joints in the exterior masonry brick wall...

(a) As detailed on the drawings. (b) Directly above all through-wall flashings at (spacing). (c) Throughout the wall in every (i.e. 4th mortar joint) horizontally and every (i.e. 10th course) vertically.

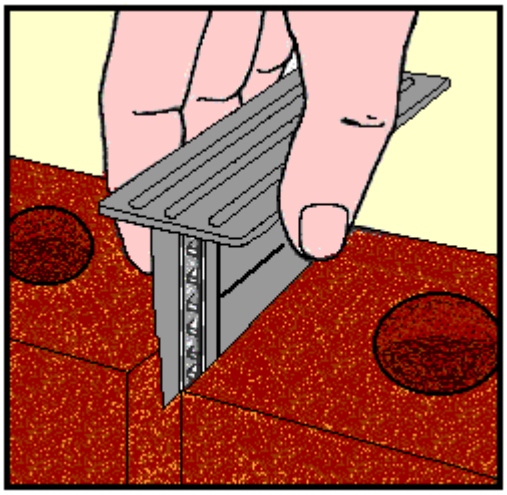
Features

(1) Top-flap - overlaps two adjacent bricks to stop mortar from falling into the air passage.

(2) Flexible Wings - to adjust to variation in mortar joint widths (5/16" - 3/4").

(3) Louvers - to allow air passages while creating a water barrier.

(4) Water ridges - when water buildup on the exterior wall surface is blown into the air passage these ridges create a barrier which directs the rain down and out of the cavity



Provide adequate opening for immediate air pressure equalization.
Act as weeper.
Provide neat, attractive appearance.
Install easily.
Impede passage of insects, din and rodents.
Block entrance to rain.
Resist clogging and the corrosive effects of masonry mortars.