# Insulation Vents

## Product Data

***Protect your roofing investment against costly moisture damage***

## DESCRIPTION & USE

Flash-Tite™ Insulation Breathers and One-Way Vents relieve vapour pressure and help remove moisture from the insulation layer in low-slope commercial roofs. They may be used in conjunction with built-up, modified bitumen or single-ply roofing systems.

**Why Vent Insulation?**

In addition to roof leaks, moisture can collect within the roofing system from internal humidity, curing concrete and the use of wet building materials during construction. Since warmer air holds more moisture and warm air rises, this moisture invariably finds its way up into the roofing system.

Moisture collecting within the insulation layer will significantly reduce the insulation's thermal resistance. Warmed on a hot day, it will also cause a build-up of vapour pressure which can lead to blistering of the roofing membrane or delamination of the membrane's reinforcing felts. Moisture build-up and vapour pressure are two of the leading causes of premature roof deterioration.

Flash-Tite™ Insulation Vents installed at strategic locations on the roof will help relieve internal vapour pressure and permit moisture laden air to escape to the outside.

Lexcor has two models of vents to choose from:

***Standard Insulation Breather -*** The Standard Insulation Breather is a single spun aluminium unit featuring a wide flange and a seamless vent stack. The stack is protected by a self-draining conical rain hood.

***One-Way Vent -*** The OWV's unique unidirectional valve prevents moisture vapour from re-entering the roof system once it has escaped to the atmosphere.

## FEATURES & BENEFITS

- ***Saves Energy!*** - Flash-Tite™ Insulation Vents help maintain your roof insulation's thermal resistance (R-value) by preventing moisture build-up within the insulation layer. Your heating and cooling costs are kept to a minimum.
- ***Prolongs Roof Life*** - Flash-Tite™ roof vents can significantly prolong your roof's life expectancy by preventing internal moisture damage - one of the leading causes of premature roof failure.
- ***Economical*** - Inexpensive to install, Flash-Tite™ Insulation vents are the proverbial "ounce of prevention" that can save a "pound of cure" later.
- ***Self Draining*** - The conical cap ensures any condensation collecting within the vent safely drains to the outside.
- ***Larger Venting Area*** - Compared to competing brands, Flash-Tite Insulation Vents offer a much larger venting area!

**INSULATION VENTS**

- ***Removable Caps*** - Caps can be removed for cleaning and to permit faster installation with a single “target” piece membrane flashing.

**Additional Features of One-Way Vents:**

- ***Insulated*** - Insulation prevents water condensing on the walls of the vents in colder climates (insulation is optional with Standard Insulation Breathers).
- ***Mosquito Netting*** - Vents are protected with mosquito netting to prevent insect penetration.

## TECHNICAL DATA

**FABRICATION**

**Metal:** 1.6 mm (0.064”) Aluminium

**Insulation:** Polyethylene Foam Pipe Insulation
13 mm (0.5") thick, R = 2.0

| Specifications | Small Size | Large Size |
|---|---|---|
| **MODEL NOs.** | | |
| Std. Breather | IVS | IVL |
| One Way Vent | OVS | OVL |
| **Dimensions** | | |
| Height | 27 cm (10.75”) | 32 cm (12.50”) |
| Throat Diameter | 9 cm (3.38”) | 14 cm (5.50”) |
| Flange Diameter | 25 cm (10.00”) | 35 cm (14.00”) |
| **Venting Area** | | |
| Std. Breather | 42 $cm^2$ (6.5 $in^2$) | 129 $cm^2$ (20.0 $in^2$) |
| One Way Vent | 29 $cm^2$ (4.5 $in^2$) | 103 $cm^2$ (16.0 $in^2$) |

**Options**

Insulation is optional with Standard Insulation Breathers. It comes standard with the One-Way Vent.

**CONT.☛**

## INSTALLATION

- For better adhesion with bituminous based roofing systems (built-up, modified bitumen, rubberized asphalt) pre-treat the flange with an asphalt primer.

1. Select the location for the insulation vent, preferably over an insulation joint. Cut a hole through the roofing membrane to match the size of the insulation vent. Discard the removed membrane.
2. Cut a hole through the insulation to match the diameter of the insulation vent, being careful not to puncture a vapour retarder, if one exists.
3. Crumble the removed insulation and place back into the hole.
4. Centre the Vent over the hole and adhere the flange to the roof membrane with an adhesive compatible with the type of roofing membrane. Be careful not to plug the hole in the insulation.
5. Flash the Insulation Vent into the roof membrane as recommended by the roof membrane manufacturer or as per NRCA or CRCA guidelines. Use good roofing practice to ensure a permanent, water-tight seal.

## SPECIFICATION

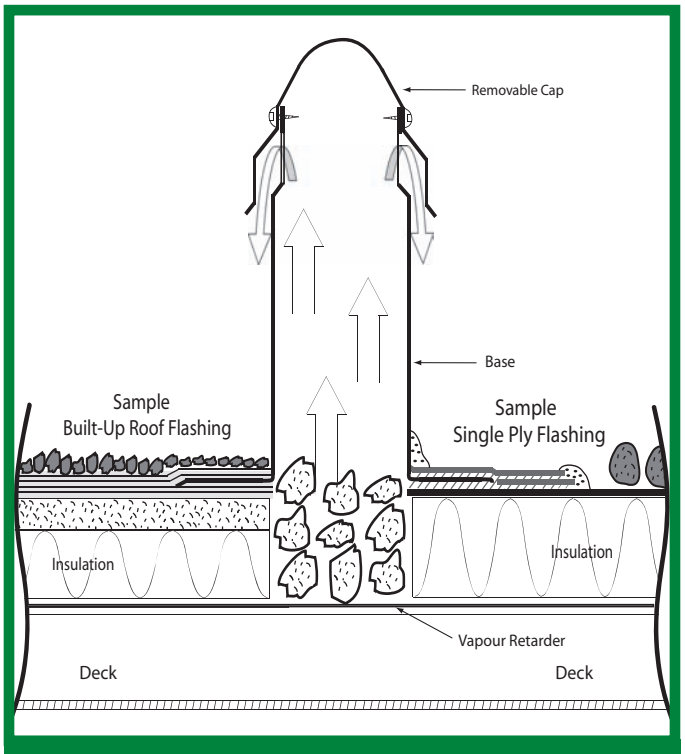
Spec Note: Choose options from within square brackets (i.e.: [small; large]).

BREATHER VENTS shall be seamless 1.6 mm thick (0.064") aluminum vents, with a minimum venting area of [small size: 42 $cm^2$ (6.5 $in^2$); large size: 129 $cm^2$ (20 $in^2$)]. Breathers are to include a downward sloping rain hood attached to the vent.

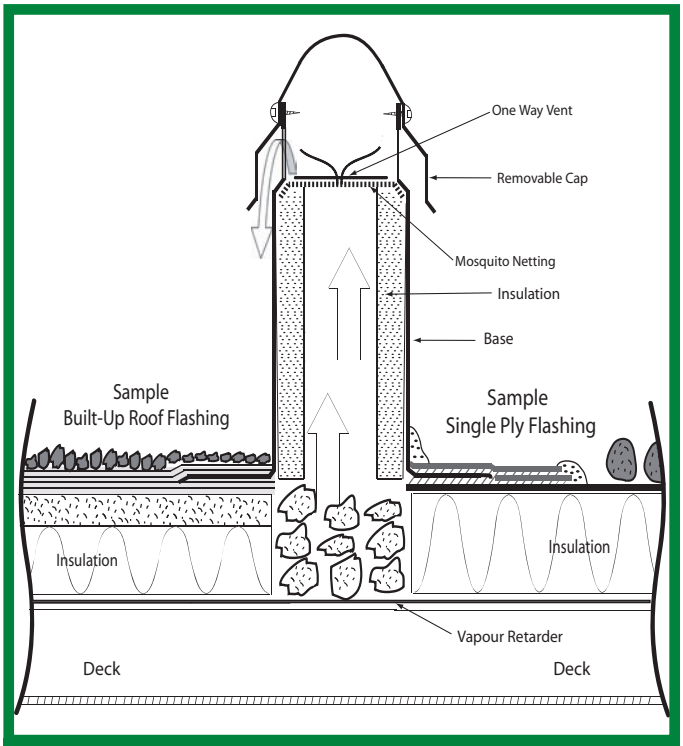
Optional: Vents shall be factory insulated with 13 mm (_") thick polyethylene pipe insulation providing a minimum R-value of 2.0.

ONE-WAY VENTS shall be seamless 1.6 mm thick (0.064") aluminum, with a minimum venting area of [small size: 29 $cm^2$ (4.5 $in^2$); large size: 103 $cm^2$ (16 $in^2$)]. Vents are to come complete with _" thick interior polyethylene insulation providing an R-value of 2.0, metal mosquito netting, a downward sloping rain hood and a one-way vent mechanism.

ACCEPTABLE PRODUCT: Flash-Tite™ [Small; Large] [Standard Breathers; One-way Vents], Model No. ____, as manufactured by Lexcor, URL: Lexcor.net, E-Mail: info@lexcor.net, Tel: (800) 268-2889, Fax: (905) 792-8801. Install [Insulation Vents; One Way Vents] at the rate of one vent per [____ ; 93 $m^2$ (1000 sq. ft.)] of roof area, as indicated on the drawings. Install in strict accordance with the manufacturer's directions and flash in to the roof membrane in accordance with [the roofing membrane manufacturer's; NRCA; CRCA] directions and good roofing practice.




FLASH-TITE™ INSULATION BREATHER




FLASH-TITE™ ONE-WAY VENT



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