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 **Building Materials**

Bristolite Skylights

401 E Goetz Ave, Santa Ana, California 92707, USA

 Heat and Smoke Vents for Roofs (FM Approval Class Number 4430)  Automatic Vents (Class Number 4430)

 Fusible Link Type (Class Number 4430)

Product	Listing Country	Width (ft in)	Width (m)	Length (ft in)	Length (m)	Lid Type	Snow Load (lbs/ft2)	Snow Load (kgs/m2)	Wind Uplift (psf)	Wind Uplift (kPa)	Certification Type
Model SVAM	United States of America	4'0"-5'0"	1.2-1.5	4'0"-8'0"	1.2-2.4	Metal	10	49	150	7.0	FM Approved
Models SVAF, SVAF-DD	United States of America	4'0"-5'0"	1.2-1.5	4'0"-8'0"	1.2-2.4	Fiberglass	10	49	150	7.0	FM Approved
Model SVSM	United States of America	4'0"-5'0"	1.2-1.5	4'0"-8'0"	1.2-2.4	Metal	10	49	150	7.0	FM Approved
Models SVSF, SVSF-DD	United States of America	4'0"-5'0"	1.2-1.5	4'0"-8'0"	1.2-2.4	Fiberglass	10	49	150	7.0	FM Approved

Guide Content

Search Results

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Heat and Smoke Vents for Roofs (FM Approval Class Number 4430)



The venting of heat and smoke from a building fire may be desirable in certain, specific situations, but indiscriminate automatic venting should be avoided. Before specifying heat and smoke vents, FM Global Property Loss Prevention Data Sheet 1-10 should be consulted.

In sprinklered buildings, automatic vents may lead to increased fuel consumption and/or an increase in water demand needed to achieve control of the fire. *Manual operation* of vents may be preferable to permit sprinklers to gain control of the fire while the vents remain closed. When the fire has been controlled or extinguished, one or more vents can be operated manually to remove smoke from the building.

In unsprinklered buildings, or for certain isolated fire hazard situations in sprinklered buildings, vents may be desirable for *automatic operation*, being actuated by fusible link or by some drop-out thermoplastic material. Consult FM Approvals for these special situations.

FM Approved vents are classified as MANUAL or AUTOMATIC, and all vent lids with lifting mechanism are designed to operate against a snow load of 10 lb/ft² (49 kg/m²), except the AUTOMATIC drop-out, which must resist premature collapse under such a load. Lids may be single or double, flat, pitched or dome-shaped.

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Automatic Vents (Class Number 4430)



In this category, there are three types of vents based on manner of actuation: fusible link, drop-out plastic or motor operated. The first type depends on a temperature-rated fusible link to trip the lid mechanism, opening the vent by springs, pressurized pistons or gravity. The drop-out plastic depends on a temperature-sensitive plastic dome which deforms from its setting and falls out of the roof. The motor operated depends on an electrically driven operator being activated by a heat/smoke detector.

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