Automatic Smoke Vents

Automatic Smoke Vents protect property and aid firefighters in bringing a fire under control by removing smoke, heat, and gases from a burning building. Ideally suited for large expanses of unobstructed space such as factories, warehouses, auditoriums, and retail facilities smoke vents are available in a number of standard UL-listed sizes.

Benefits

- Increased evacuation time and decreased risk of smoke inhalation and damage
- Enhanced visibility to allow firefighters to quickly locate the fire
- Protection against secondary ignitions and lateral fire spread
- Exhausting of noxious and potentially explosive fumes
- Structure protection from damaging heat
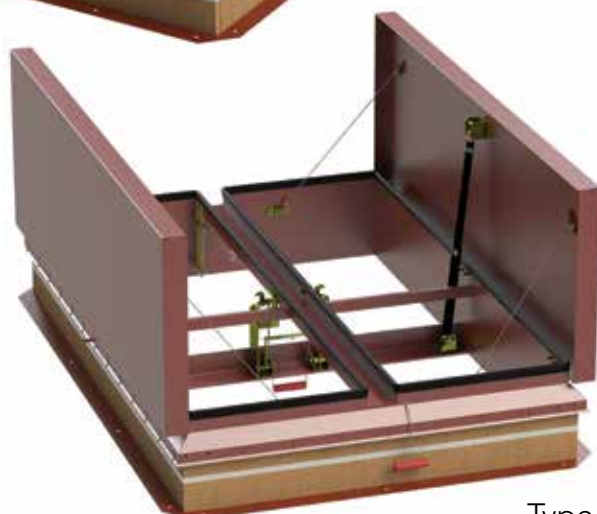- Reduced damage to building contents

Features

- Fully insulated and gasketed for weathertight performance.
- Thermolatch® II latching mechanism with curb mounted fusible link housing for quick and easy resetting at the roof level
- Exterior and interior pull release handles for manual operation
- Covers open against a 10 psf (49 kg/m^2) snow/wind load and automatically lock in the open position upon vent activation
- Bilclip® Flashing System for ease of installation on single-ply roofing
- Pre-punched capflashing to receive the Bil-Guard® 2.0 Hatch Safety Railing System *(see pages 14-15 for more information)*
- Complies with UL790 Class A and UL793
- Available in a number of UL-approved sizes

Type S-SV
Single Leaf
36" x 30"
914mm X 762mm
Special sizes
available

Product Options

BILCO Smoke vents feature a positive hold/release mechanism controlled by a single UL-listed 165°F (74°C) fusible link designed to hold the covers closed against a 90 psf (438 kg/m^2) wind uplift force. Smoke vents are provided with interior and exterior pull release cables to manually open vent covers.

Material
• Steel: 14 gauge (1.9mm) G-90 paint bond galvanized steel
• Aluminum: 11 gauge (2.3mm) aluminum

Insulation
• 1" (25mm) fiberglass insulation in cover and 1" fiberboard insulation in curb

Finish
• Alkyd base red oxide primer (standard on all steel products)
• Mil finish (standard on all aluminum products)
• See page 22 for custom finish options

Hardware
• Zinc plated/chromate sealed hardware

Control Options (see pages 22-23 for more information)
• Motor operation with push button control station
• Winch operation for remote opening and closing
• Electric release for smoke detector or fire alarm activation

Type DSH Double Leaf

Type DSH Standard Sizes

INCHES	MM	STEEL	STEEL CURB, ALUMINUM COVER	ALUMINUM
48 x 48	1219 x 1219	DSH4848	DSH4848A	DSH4848B
48 x 72	1219 x 1829	DSH4872	DSH4872A	DSH4872B
48 x 90	1219 x 2286	DSH4890	DSH4890A	DSH4890B
48 x 96	1219 x 2438	DSH4896	DSH4896A	DSH4896B
60 x 60	1524 x 1524	DSH6060	DSH6060A	DSH6060B
60 x 72	1524 x 1829	DSH6072	DSH6072A	DSH6072B
60 x 84	1524 x 2134	DSH6084	DSH6084A	DSH6084B
60 x 96	1524 x 2438	DSH6096	DSH6096A	DSH6096B
60 x 120	1524 x 3048	DSH60120	DSH60120A	DSH60120B
66 x 66	1676 x 1676	DSH6666	DSH6666A	DSH6666B
66 x 144	1676 x 3658	DSH66144*	DSH66144A*	DSH66144B*
72 x 72	1829 x 1829	DSH7272	DSH7272A	DSH7272B

* This size has four leafs

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Daylighting Automatic Smoke Vents

Offers the same benefits as BILCO Automatic Smoke Vents with a built-in skylight. Featuring a polycarbonate cover design that resists UV degradation and offers superior insulation performance compared to traditional domes. The sloped or domed cover designs meet International Building Code Requirements.

Benefits

- Provides natural daylighting for reduced energy costs
- Increased evacuation time and decreased risk of smoke inhalation and damage
- Enhanced visibility to allow firefighters to quickly locate the fire
- Protection against secondary ignitions and lateral fire spread
- Exhausting of noxious and potentially explosive fumes
- Structure protection from damaging heat
- Reduced damage to building contents

Features

- Fully insulated and gasketed for weathertight performance.
- Thermolatch® II latching mechanism with curb mounted fusible link housing for quick and easy resetting at the roof level
- Exterior and interior pull release handles for manual operation
- Covers open against a 10 psf (49 kg/m^2) snow/wind load and automatically lock in the open position upon vent activation.
- Bilclip® Flashing System for ease of installation on single-ply roofing
- Pre-punched capflashing to receive the Bil-Guard® 2.0 Hatch Safety Railing System *(see pages 14-15 for more information)*
- Complies with UL790 Class A and UL793
- Available in a number of UL-approved sizes

Type GS-SV
36" X 30"
914mm x 762mm
Special sizes available

Product Options

BILCO fire vents feature a positive hold/release mechanism controlled by a single UL-listed 165°F (74°C) fusible link designed to hold the cover closed against a 90 psf (438 kg/m²) wind uplift force. Products are provided with interior and exterior pull release cables to manually open vent cover; motorized and winch options also available *(see pages 22-23)*.

Material
• Steel: 14 gauge (1.9mm) G-90 paint bond galvanized steel
• Aluminum: 11 gauge (2.3mm) aluminum

Cover
• Single Leaf: clear polycarbonate dome or double domes
• Double leaf: Translucent multi-wall polycarbonate
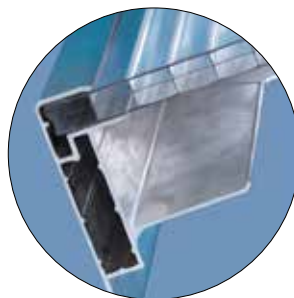
Finish
• Mil finish (standard on all aluminum products)
• See page 22 for custom finish options

Hardware
• Stainless steel hinges and zinc plated/chromate sealed hardware

Features a multi-wall polycarbonate cover design that resists UV degradation and offers superior insulation performance compared to traditional domes

Lumivent®
Double Leaf

Lumivent Standard Sizes

TYPE	INCHES	MM	MATERIAL
LV4848B	48 x 48	1219 x 1219	Aluminum
LV4872B	48 x 72	1219 x 1829	Aluminum
LV4896B	48 x 96	1219 x 2438	Aluminum
LV6060B	60 x 60	1524 x 1524	Aluminum
LV6096B	60 x 96	1524 x 2438	Aluminum
LV66144B	66 x 144	1676 x 3658	Aluminum

Double Leaf – Acoustical

NEW! BILCO's ACDSV acoustical smoke vent is designed to guard against noise intrusion while providing the security of automatic smoke venting. Acoustical vents feature industry-high OITC-46 and STC-50 sound ratings. They are ideal for concert halls, theaters and other interior applications that require limited noise from the outside. Vents are available in steel construction and in a number of UL-Listed standard sizes.

Benefits
- Acoustically sound-rated to guard against outside noise intrusion
- Increased evacuation time and decreased risk of smoke inhalation and damage
- Enhanced visibility to allow firefighters to quickly locate the fire
- Protection against secondary ignitions and lateral fire spread
- Exhausting of noxious and potentially explosive fumes
- Structure protection from damaging heat
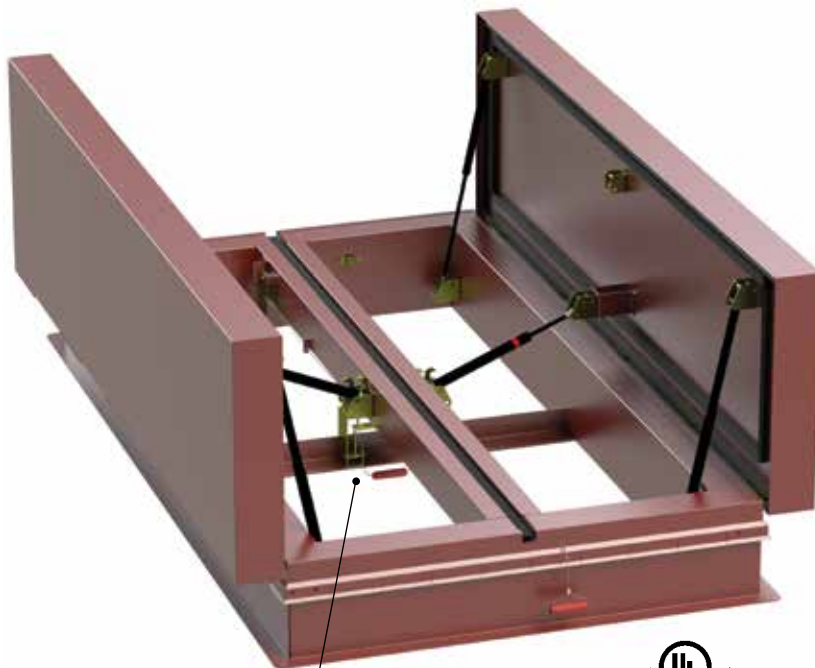- Reduced damage to building contents

Features
- OITC-46 and STC-50 sound ratings
- Fully insulated and gasketed for weathertight performance.
- Thermolatch® II latching mechanism with curb mounted fusible link housing for quick and easy resetting at the roof level.
- Exterior and interior pull release handles for manual operation
- Covers open against a 10 psf (49 kg/m^2) snow/wind load and automatically lock in the open position upon vent activation.
- Bilclip® Flashing System for ease of installation on single-ply roofing
- Pre-punched capflashing to receive the Bil-Guard® 2.0 Hatch Safety Railing System *(see pages 14-15 for more information)*
- Complies with UL790 Class A and UL793
- Available in a number of UL-approved sizes

Sound Ratings
OITC-46
STC-50
ISO 140-18 (rain fall)

Type ACDSV

*Thermolatch® II latching
mechanism with curb mounted
fusible link housing for quick
and easy resetting at the roof level.*

Product Options

BILCO fire vents feature a positive hold/release mechanism controlled by a single UL-listed 165°F (74°C) fusible link designed to hold the cover closed against a 90 psf (438 kg/m²) wind uplift force. ACDSH units are provided with interior and exterior pull release cables to manually open vent cover; motorized and winch options also available *(see pages 22-23).*

Material
• Steel: 14 gauge (1.9mm) G-90 paint
  bond galvanized steel

Insulation
• 4" (100 mm) mineral wool insulation

Finish
• Alkyd base red oxide primer
• See page 22 for custom finish options

Hardware
• Zinc plated/chromate sealed hardware

TYPE	INCHES	MM
ACDSV4848	48 x 48	1219 x 1219
ACDSV4896	48 x 96	1219 x 2438
ACDSV6096	60 x 96	1524x 2438
ACDSV66144	66 x 144*	1676 x 3658
ACDSV 7272	72 x 72	1829 x 1829