

# Signature Series™ SVT2

**UL Certified and FM Approved  
Industrial Smoke Vents**



## Patented Prismatic Polycarbonate Performance

Sunoptics® Industrial Smoke Vents are ideal for use in industrial and commercial buildings where emergency smoke evacuation requirements are needed. Sunoptics has multiple smoke vent models and certifications available for your smoke vent needs and location.

- UL/ULC #793 Listed (U.S. & Canada)
- Factory Mutual (FM) Approval Class #4430
- Class 4 Hail Rating



P.O. Box 780249, Tallahassee, AL 36078  
Toll Free (800) 289-4700

**[WWW.SUNOPTICS.COM](http://WWW.SUNOPTICS.COM)**



**The Originator and Innovator of the  
High Performance Prismatic Skylight**

**45<sup>th</sup>**  
*Anniversary*  
1978 - 2023



# Signature Series™ SVT2

## UL Listed & FM Approved Industrial Smoke Vent



### TECHNICAL SPECIFICATIONS

#### FRAME

Sunoptics SVT2 Smoke Vent frame type will be frame series model 870B (curb mounted frame) as manufactured by Sunoptics, Inc, P.O. Box 790249, Tallahassee, AL 36078, Phone (800) 289-4700.

Smoke Vent frames will be fabricated from 6063 T6 aluminum with a natural mill finish. Frames will have integral condensation and weepage gutters which drain moisture to the outside. Frame corners are mitered and welded. The polycarbonate glazing will be fully sealed with a silicone seal.

Note: Multi-glazed units default to include an Insulated Thermal Break (ITBR), Curb Seal gasket, Weather Sweep (WSW) and screws. Single-glazed units do not include these options.

#### UL LISTED SMOKE VENTS

Sunoptics UL Listed Smoke Vents will be model SVT2 as manufactured by Sunoptics, Inc. SVT2 UL Listed Smoke Vent lens shape can be Signature™ Series dome shape lens (SIGL), which are made from ClearArmour® Polycarbonate lenses. SNOW LOAD LIFT IN PSF: 10lb. or 30lb. See ID Frame Call Out for specific dimensions.

#### FM APPROVED SMOKE VENTS

Sunoptics Factory Mutual (FM) Approved Smoke Vents will be Sunoptics model SVT2 as manufactured by Sunoptics, Inc.

FM #4430 Approved Prismatic Smoke Vent are double glazed using ClearArmour® clear polycarbonate over ClearArmour® high-white polycarbonate lens, CC1 Rated, in a Signature Series dome configuration. SNOW LOAD LIFT IN PSF: 10lb. only. Must have a minimum 360°F fusible link. See ID Frame Call Out for specific dimensions.

#### FUSIBLE LINK

The smoke vent will operate by a fusible link. The fusible links offered start at a minimum temperature rating of 165-degrees Fahrenheit (165°F / 73.89°C) to a maximum of 386-degrees Fahrenheit (386°F / 196.66°C). In case of a fire, the fusible link will melt at the chosen temperature, releasing the doors via gas shocks. When the smoke vent doors are released, the doors will open to a minimum angle of 90 degrees.

Interior and exterior release pull rings are included to manually open the smoke vent as needed for code inspection and early release for firefighter needs.

#### LENS SHAPE - INFO - DETAILS

The Signature™ Series lens provides a proprietary dome design created to capture and distribute more light at low-light levels throughout the day. The sleek and compact lens design offers an efficient way to provide glare free, full-spectrum daylighting with the Sunoptics industrial smoke vent.

#### LENS HAIL CLASS RATING

Material Type	Lens Material	Resistance Rating	Hail Size
Polycarbonate	CC1/CC1P125	Class 4	2"

#### WARNING

Smoke Vents should not be installed in locations with an operating temperature in excess of -75-degrees Fahrenheit (-75°F / -59.44°C) or 180-degrees Fahrenheit (180°F / 82.22°C).

Smoke Vents not for use in harsh, corrosive, marine and high-humidity environmental conditions such as marina, greenhouses, petrol-chemical facilities or other chemicals where the smoke vents may be exposed to such conditions.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate lenses. Refer to the Polycarbonate Environmental Compatibility Tables located at [www.sunoptics.com](http://www.sunoptics.com) for suitable uses.

#### CLEANING POLYCARBONATE LENSES

Frequency of cleaning is determined by site conditions. When cleaning polycarbonate lenses, use only water or water with a mild soap. Use a soft rag to minimize scratching the polycarbonate. A pressure washer is acceptable to use as well. Never use ammonia, aromatic or petroleum based products to clean polycarbonate lenses. This will cause deterioration and cracking of the lens and will void the warranty.

Consult factory regarding Smoke Vent installation in locations with operating temperatures in excess of -75°F (-59.44°C) or 165°F (73.89°C).

### SIDE PROFILE

Double-Glazed (DGZ)  
Profile Shown.

Details Not To Scale.

### AVAILABLE SIZES

#### ID Frame Call-Out

4070	51-1/4" x 87-1/4"
4080	52-1/4" x 100-1/4"
5060	63-5/8" x 75-5/8"
5558	67 3/4" x 70-3/4"

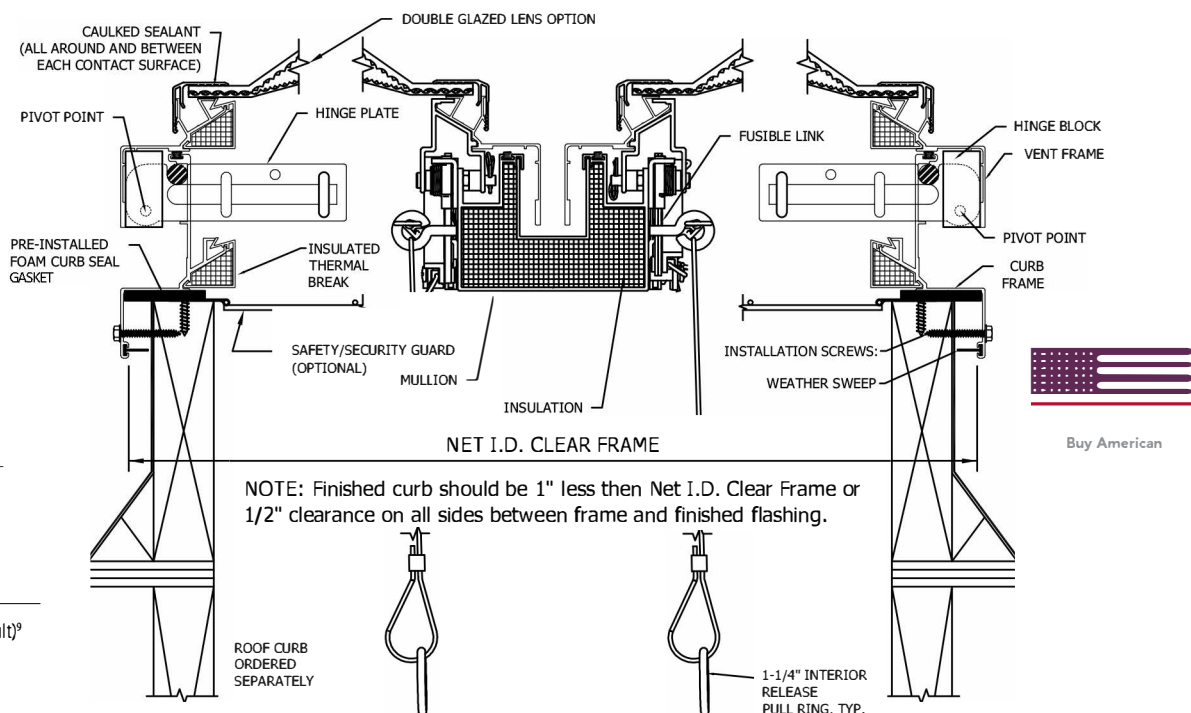
See ID Frame call-outs under Ordering  
Logic for dimension options.

#### Snow Load

10LB	10-Pound Snow Load (default)
30LB	30-Pound Snow Load <sup>8</sup>

#### Fusible Link

360FL	360-Degree Fusible Link (default) <sup>9</sup>
370FL	370-Degree Fusible Link
386FL	386-Degree Fusible Link



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NOTE: Finished curb should be 1" less than Net I.D. Clear Frame or 1/2" clearance on all sides between frame and finished flashing.

ROOF CURB  
ORDERED  
SEPARATELY

1-1/4" INTERIOR  
RELEASE  
PULL RING, TYP.

