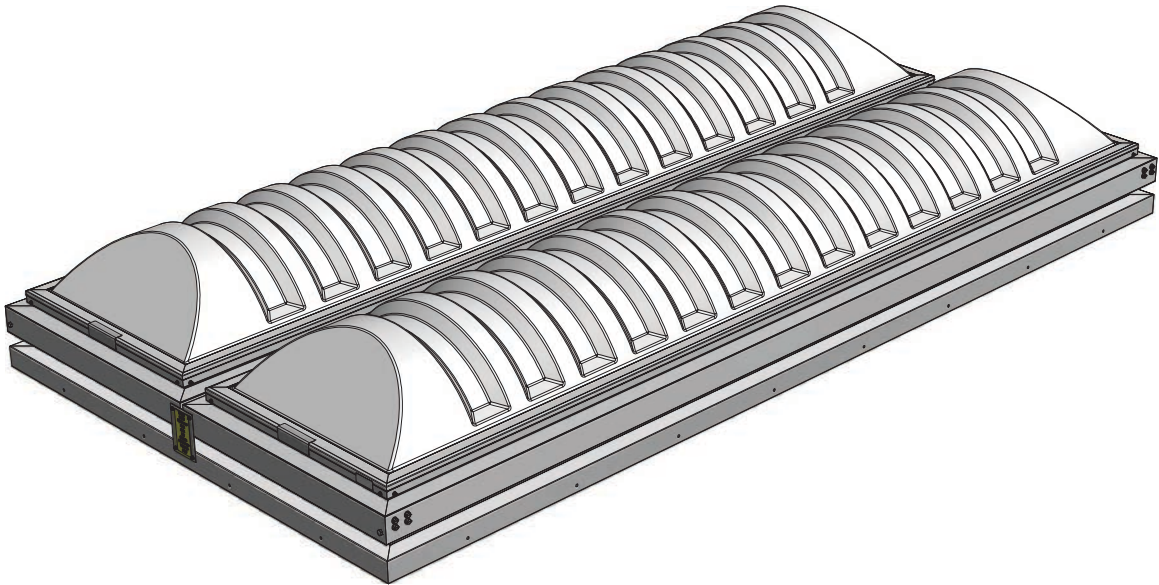




SUNOPTICS® SVT2 Industrial Smoke Vent

INSTALLATION GUIDE





IMPORTANT SAFETY INSTRUCTIONS

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION**

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the smoke vent assembly equipment.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of the smoke vent assembly should be performed by a **qualified person**.
- Maintenance of the smoke vent assembly should be performed by person(s) familiar with the smoke vent assembly's construction and operation and any hazards involved. Regular smoke vent assembly maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the smoke vent assembly. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. The smoke vent lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should the smoke vent lens become dirty on the inside, wipe the smoke vent lens and clean it in the above manner.
- **DO NOT INSTALL DAMAGED PRODUCT!** This smoke vent assembly has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to AES Sunoptics, Inc.



CAUTION RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when installing, servicing or performing maintenance to the smoke vent assembly.

Please see product specific installation instructions for additional warnings or other regulatory statements.





WARNING - Read the entire installation manual, along with the following warnings, prior to proceeding with the installation of the unit.

This installation manual provides minimum installation information for the SVT2 unit. This manual also provides minimum design information and a brief description for the SVT2 unit. All details, drawings and images shown in this manual are not to scale. The design, specifications and exceptions are subject to changes without notice. Each revised version of this installation manual supersedes all previous versions. Please contact your local AES Sunoptics, Inc. representative with regards to updates to the product, design, specifications and/or installation instructions.

Please contact an AES Sunoptics, Inc. representative with regards to the use of materials or methods, which are not specified in this manual, or authorized by AES Sunoptics, Inc.

AES Sunoptics, Inc. (seller) assumes no responsibility or obligation whatsoever for the failure of an installer, contractor, architect or building owner to comply with all applicable laws, ordinances, building codes, electrical codes, energy codes, fire and safety codes and requirements, roof warranties and adequate safety precautions.

The installation of the SVT2 should be done by at least 2 people. The second person should be close enough to come to your aid, if necessary.



INSTALLATION TO BE DONE AT YOUR OWN RISK!

GENERAL SAFETY

AES Sunoptics, Inc. product installations may be dangerous and include the potential for death, personal injury and property damage. Some of the hazardous conditions include, but are not limited to, the following:

- Installation will require working at dangerous heights. When working on ladders, scaffolding, on roofs and in attic spaces, use extreme caution to minimize risks, property damage, personal injury, or death. Use the following procedures, as well as other measures, as examples to reducing risk.
 - Clearing the area(s) below the working space or objects, animals and people.
 - Use proper footwear. Using footwear with excellent traction is recommended.
 - Avoid working on slippery, or wet, surfaces.
 - Supports such as ladders and scaffolding should be well supported and strong.
 - Install the product during calm and dry weather.
 - When working in attic spaces, use the following precautions:
 - Most attic spaces are dark, so use portable lighting such as flashlights to properly light the working area.
 - Always support your weight on structurally sound framing. Do not step on the drywall material because drywall is not designed to carry a person's weight.
 - It is recommended to use respirators, or masks, to avoid lung irritation.
 - Use basic safety procedures when working with electric tools. Use suitable eye protection, such as safety goggles, and clear the work area of electrical wires, gas pipes, water pipes and other obstacles to reduce the risk of fire, electric shock and personal injury.
 - The SVT2 is not designed to support the weight of a person, tools or other materials. If the product is damaged, do not continue with the installation and immediately contact your AES Sunoptics, Inc. representative for instructions and a replacement.

ROOFING

- If the SVT2 unit must be removed from the roof, due to re-roofing, please contact your AES Sunoptics, Inc. Representative for information on disassembly and care of the unit



RECOMMENDED TOOLS and MATERIALS:

Screw Gun with 5/16" Driver

Screw Gun with Flat Head

Tape Measure

Lumber Crayon

Hammer

Required Safety Equipment

PARTS LIST

ITEM	DESCRIPTION	QTY
1	870B SMOKE VENT ASSEMBLY ¹	1
2	#12 HEX HEAD DRILL TIP SCREWS ³	X ³
OPTIONAL ITEMS		
3	CLOSURE BAR ⁴	1

NOTES:

X - Quantity Required is based on application and Customer Order.

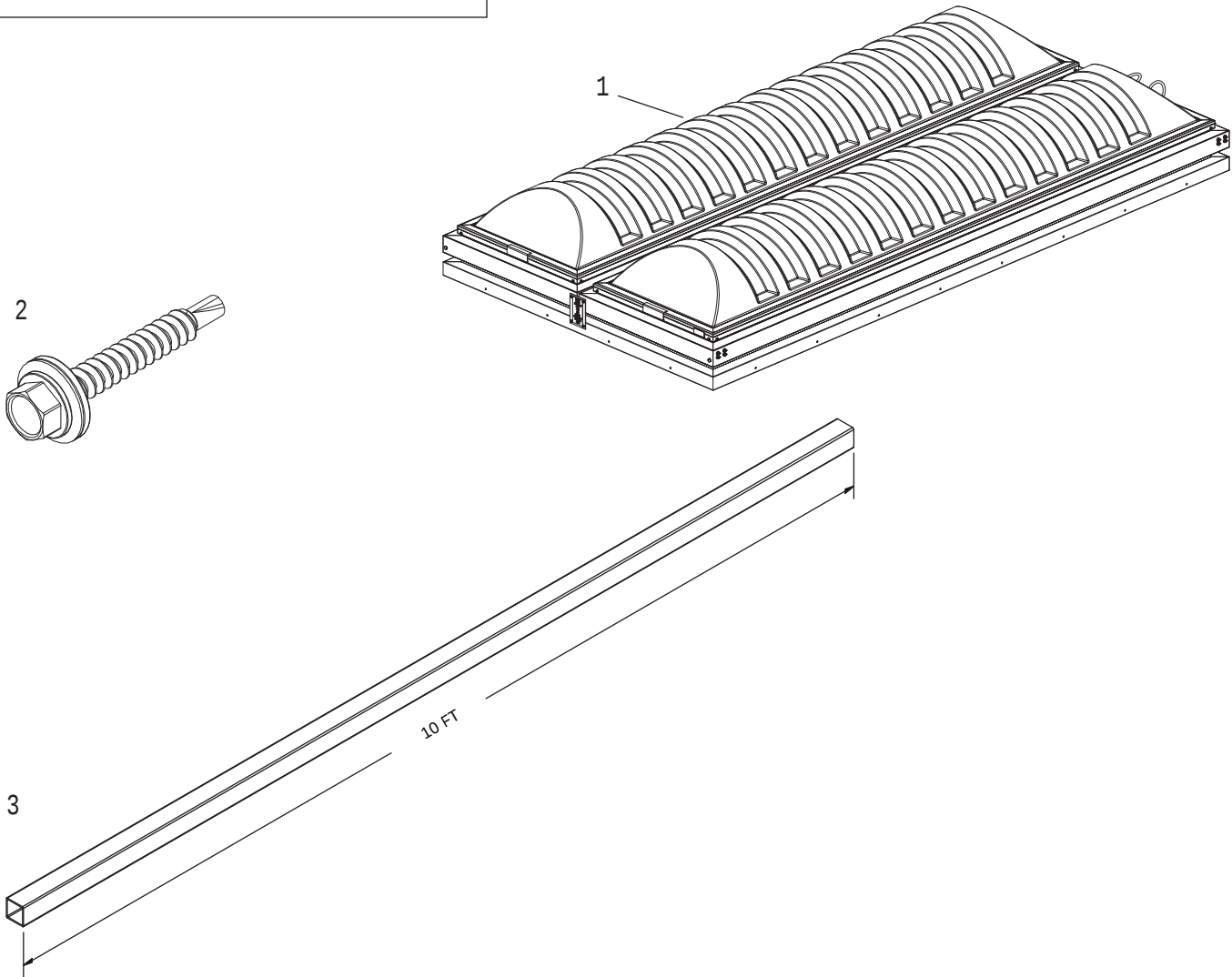
1) CAUTION: Handle Skylight Material with Care.

2) Components shown not included in all kits. See label on box.

3) Amount of screws is based on size selected.

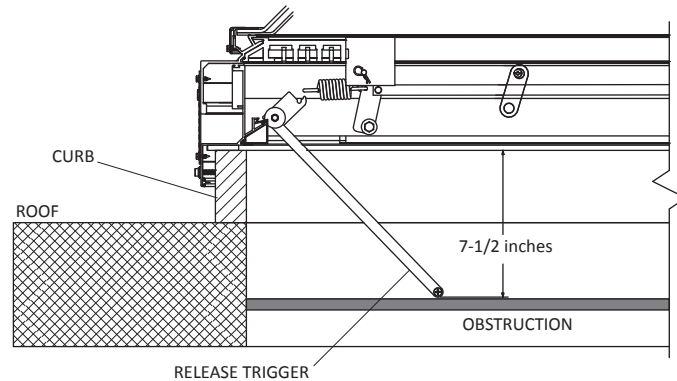
4) A Closure Bar is recommended when closing 25LB & 30LB Rated Units

** Verify all materials are on site, and available for installation.

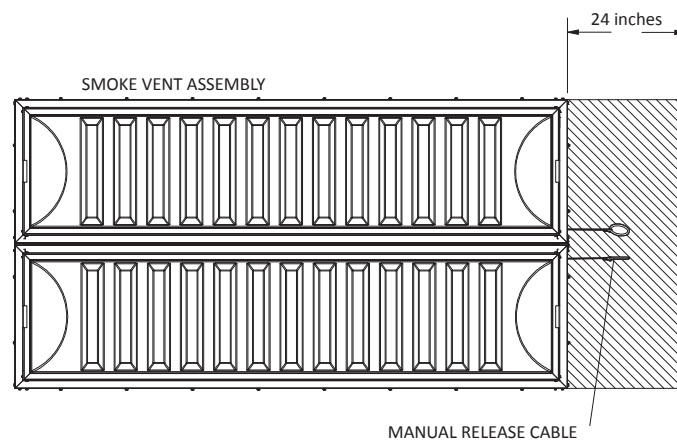


SYSTEM INSTALLATION TIPS

- When using a Smoke Vent Assembly, be sure there is approximately 7-1/2 inches of clearance between the top of the Curb and the first obstruction, i.e. Security Bars, specifically for the Fusible Link Release Trigger. Limiting the movement of the Release Trigger may cause the vent doors to not open, as required.



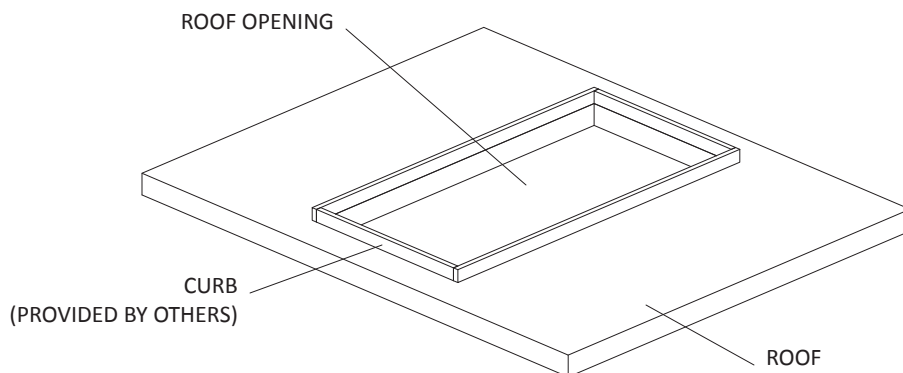
- Be sure to have at least 24" of clearance behind the Manual Release side. Leave enough room for a person to easily access, and operate, the Manual Release Cable.



INSTALLATION INSTRUCTIONS

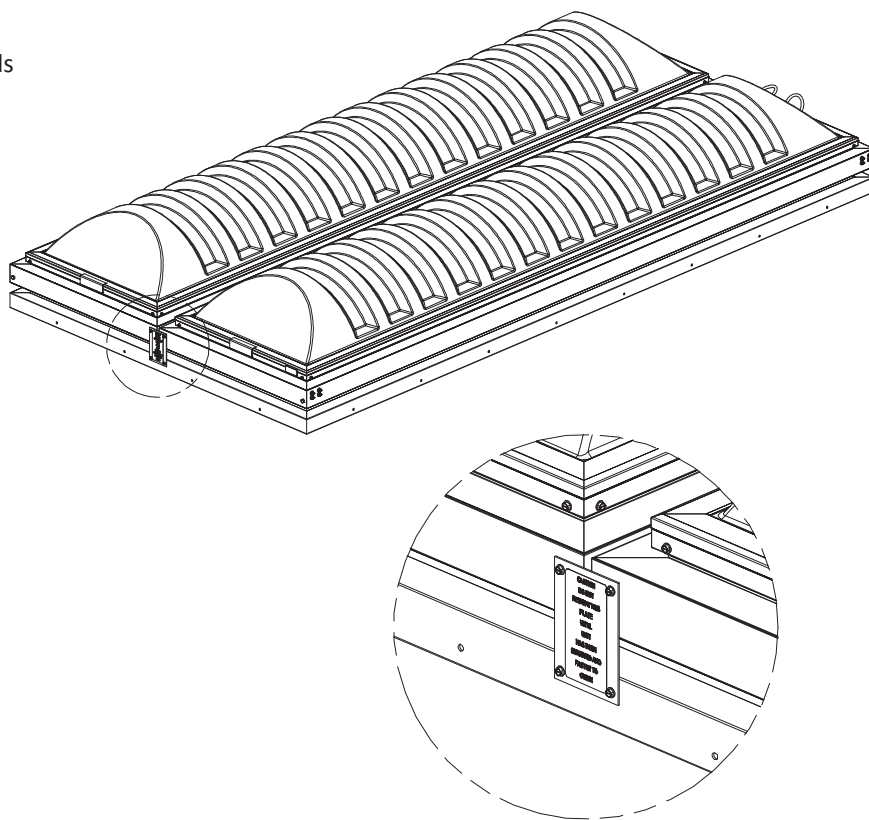
ROOF PREPARATION

1. Prior to installation, prepare the roof and create an opening which will utilize the provided Smoke Vent Assembly.
2. Install the proper size Curb (not provided) onto the roof.



UNIT PREPARATION

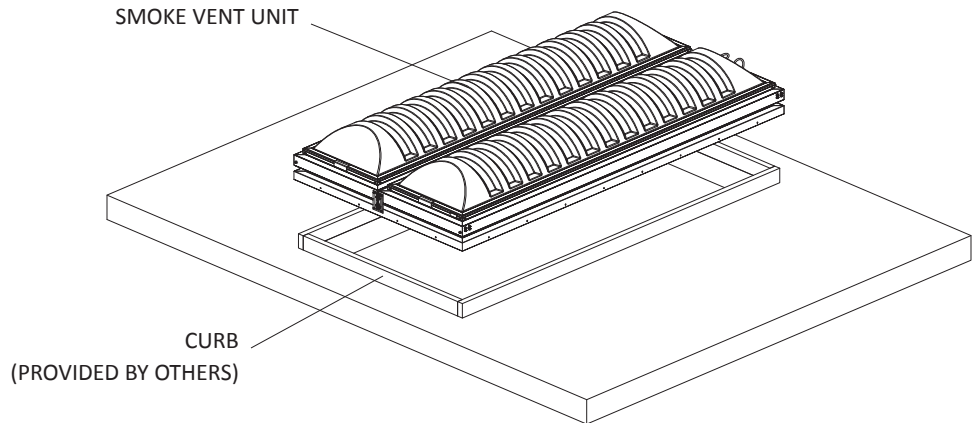
1. Inspect the unit for any damage.
2. Be sure that the Shipping Plate on both ends of the unit are still installed. The plates ensure that the Vent Doors are closed during installation.



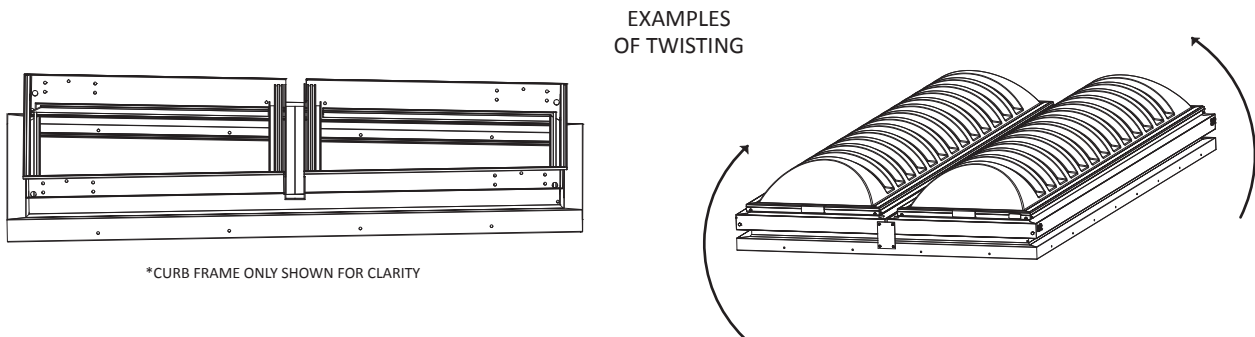
INSTALLATION INSTRUCTIONS

INSTALLATION OF THE SMOKE VENT UNIT

1. Carefully set the Smoke Vent Assembly over the prepared Curb. Make sure the Smoke Vent Unit is square and flat.
2. Move the Smoke Vent Unit on the curb such that there is an equal amount of clearance between the ID frame and the Curb, front-to-back, and side-to-side.



NOTE: While moving the Smoke Vent Assembly, be sure to support each corner of the assembly, and ensure that the assembly does not twist. (See image). Twisting of the unit may cause the internal components of the unit to misalign, and therefore not function properly.



NOTE: When installing the Smoke Vent Assembly onto the curb, be sure that each corner of the assembly is secure and that the frame is square and flat. Ensure that the frame is square. (See image). Misalignment of the unit may cause the internal components of the unit to misalign, and therefore not function properly.



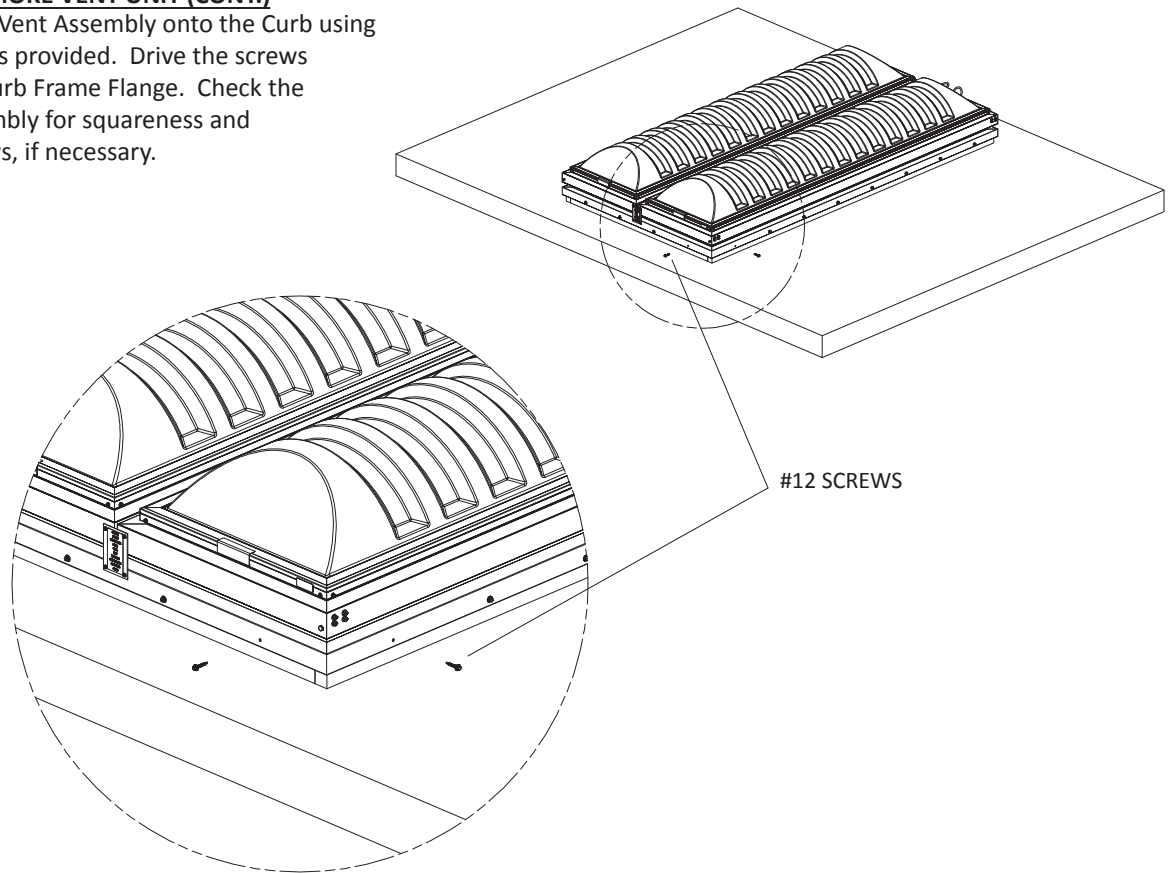
INCORRECT INSTALLATION. FRAME NOT SQUARE



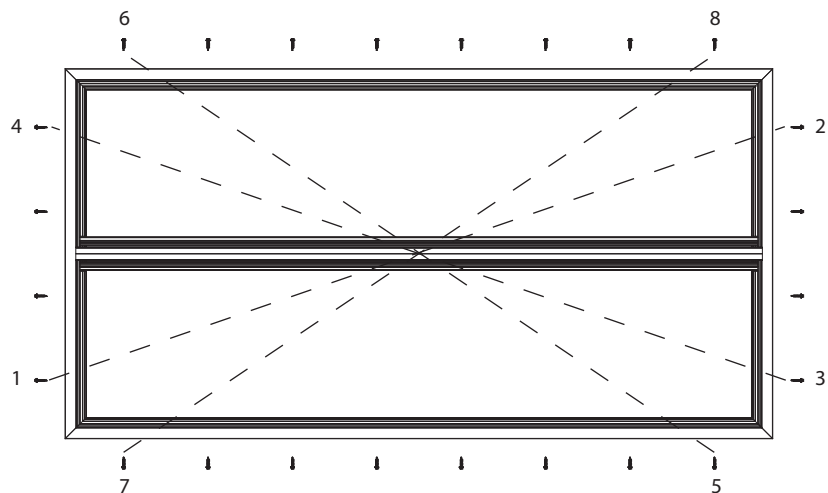
INSTALLATION INSTRUCTIONS

INSTALLATION OF THE SMOKE VENT UNIT (CONT.)

3. Secure the Smoke Vent Assembly onto the Curb using the Drill Tip Screws provided. Drive the screws just snug to the Curb Frame Flange. Check the Smoke Vent Assembly for squareness and readjust the screws, if necessary.



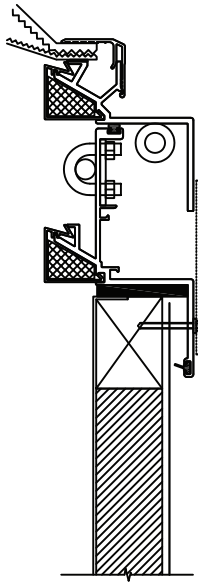
NOTE: Install the screws for the corners of the Curb Frame, in a star pattern as shown. Ensure equal spacing all around, between the Curb and the Curb Frame, and that the unit is square. After installing the corner screws, continue installing the remaining screws for the Curb Frame.



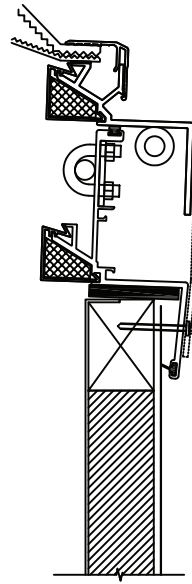
INSTALLATION INSTRUCTIONS

INSTALLATION OF THE SMOKE VENT UNIT (CONT.)

NOTE: When securing the Smoke Vent Assembly onto the Curb, drive the screws just snug to the Curb Frame flange. (SEE BELOW) Overtightening the screws may distort the Flange and in turn create forces which may cause the internal components of the unit to misalign, and therefore not function properly.

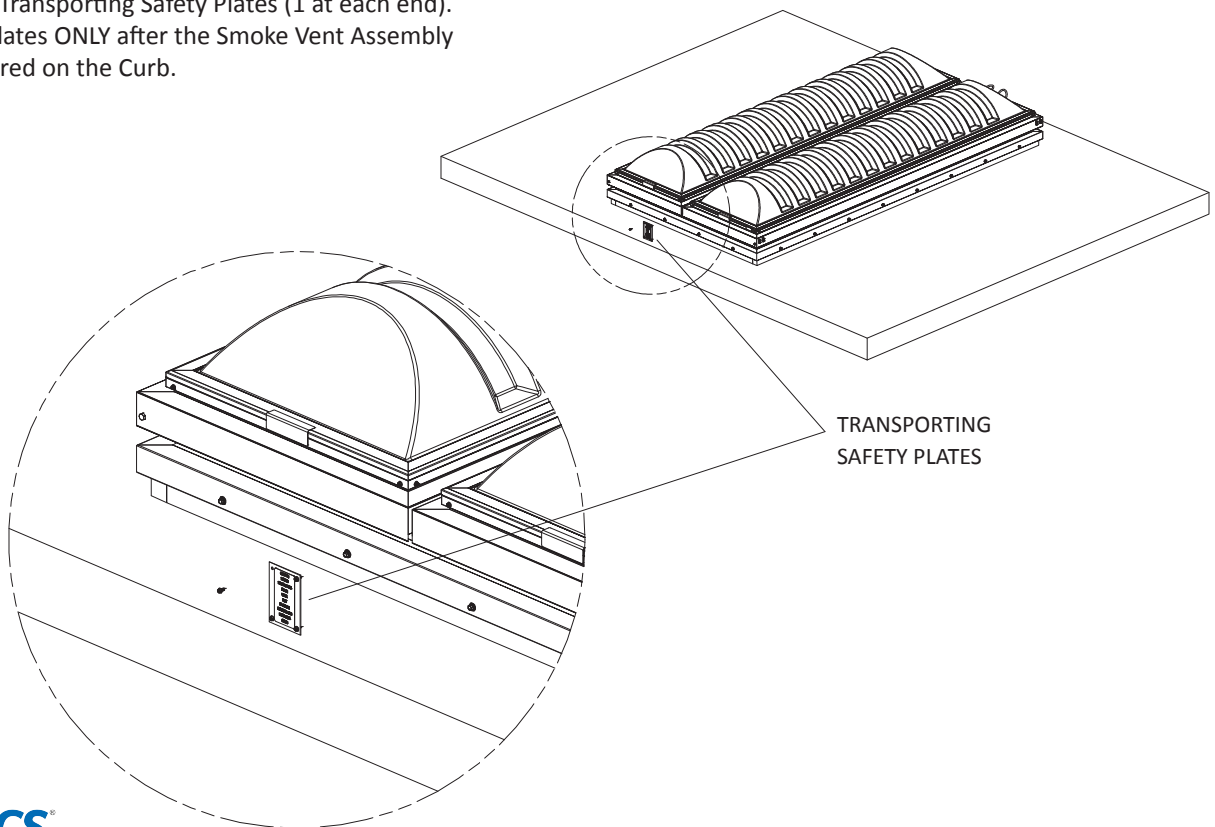


CORRECT MOUNTING



INCORRECT MOUNTING

4. Remove the 2 Transporting Safety Plates (1 at each end).
Remove the plates ONLY after the Smoke Vent Assembly has been secured on the Curb.

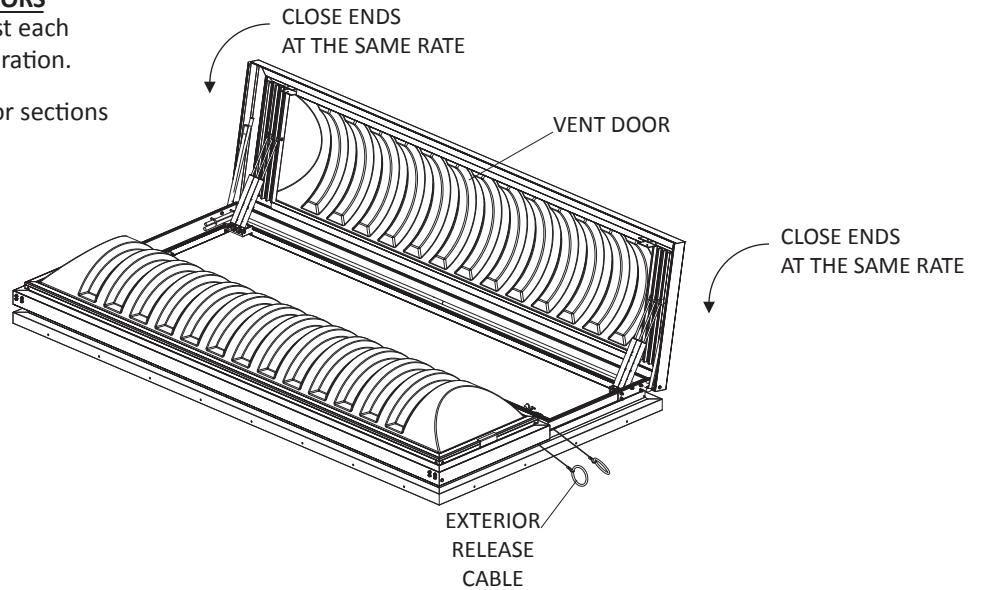


INSTALLATION INSTRUCTIONS

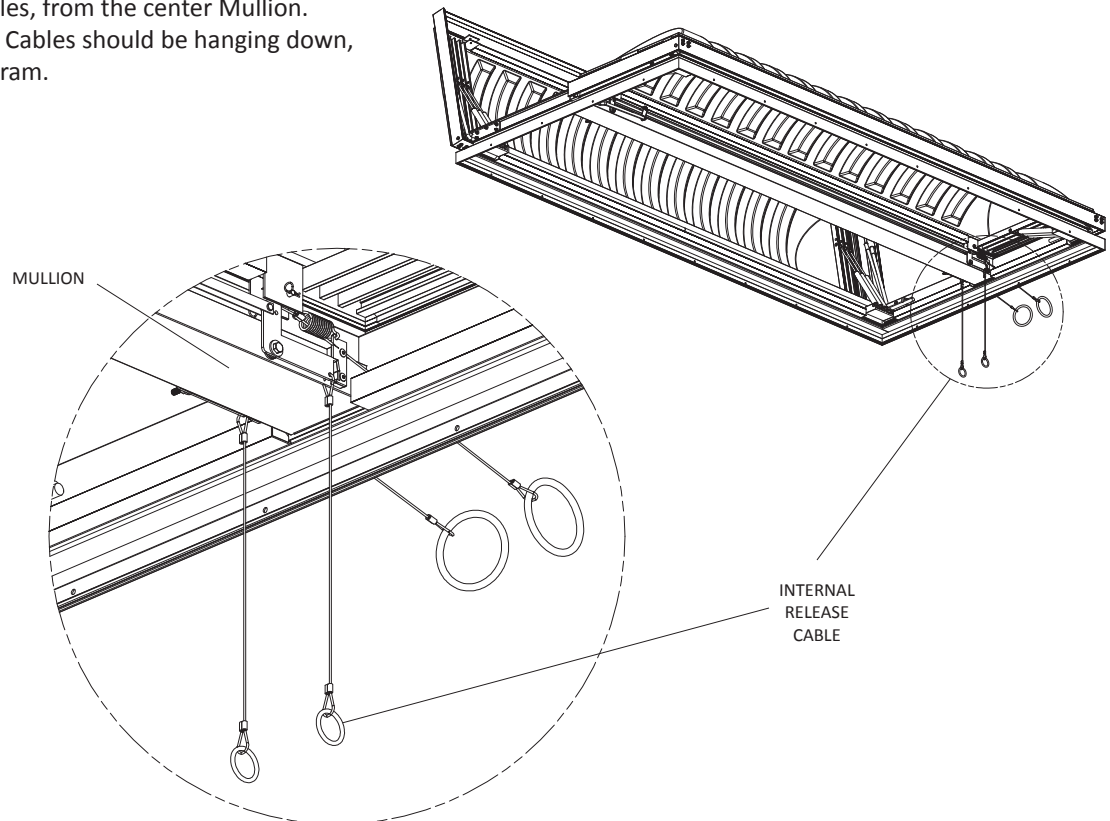
TESTING THE SMOKE VENT UNIT, VENT DOORS

1. Pull the Exterior Release Cable to test each Venting Door section for proper operation.

WARNING: Stand clear of the Vent Door sections when testing the unit.



2. While the Vent Doors are open, unwind the Internal Release Cables, from the center Mullion. The Internal Release Cables should be hanging down, as shown in the diagram.



3. After testing the Vent Doors, return each Vent Door section to the closed position.

NOTE: It will require 2 persons to close the Vent Doors, with 1 person on each end of the door. When closing the Vent Doors, make sure each end of the door is moving to the closed position at the same even rate.



SMOKE VENT MAINTENANCE SHEET

SUNOPTICS SMOKE VENTS generally require very little maintenance to properly perform for many years. However, as with all products, a scheduled preventative maintenance program should be followed.

CLEANING ACRYLIC LENSES

1. When cleaning lenses, use only water or water with a mild soap. Use a soft rag to minimize scratching.
2. NEVER use ammonia, aromatic or petroleum based products to clean lenses. This will certainly cause deterioration and cracking of the lens and will void the warranty.

INSTALLATION NOTES



Sunoptics® Prismatic Skylights and Smoke Vents • 106 Industrial Parkway • Tallassee, AL 36078 • www.sunoptics.com • T: 800.289.4700

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