



# APC Dayliter™ Fire and Smoke Vents (APC) are the safest way to protect the building's occupants—and firefighters.

## The National Building Codes require fire vents for most industrial buildings.

Fire officials know that smoke is the deadliest part of a fire. That's why Section 910 of the International Fire Code mandates the use

of automatic smoke control systems in high-piled storage facilities and in most one-story buildings greater than 50,000 square feet. **Smoke vents eliminate the need to cut holes**

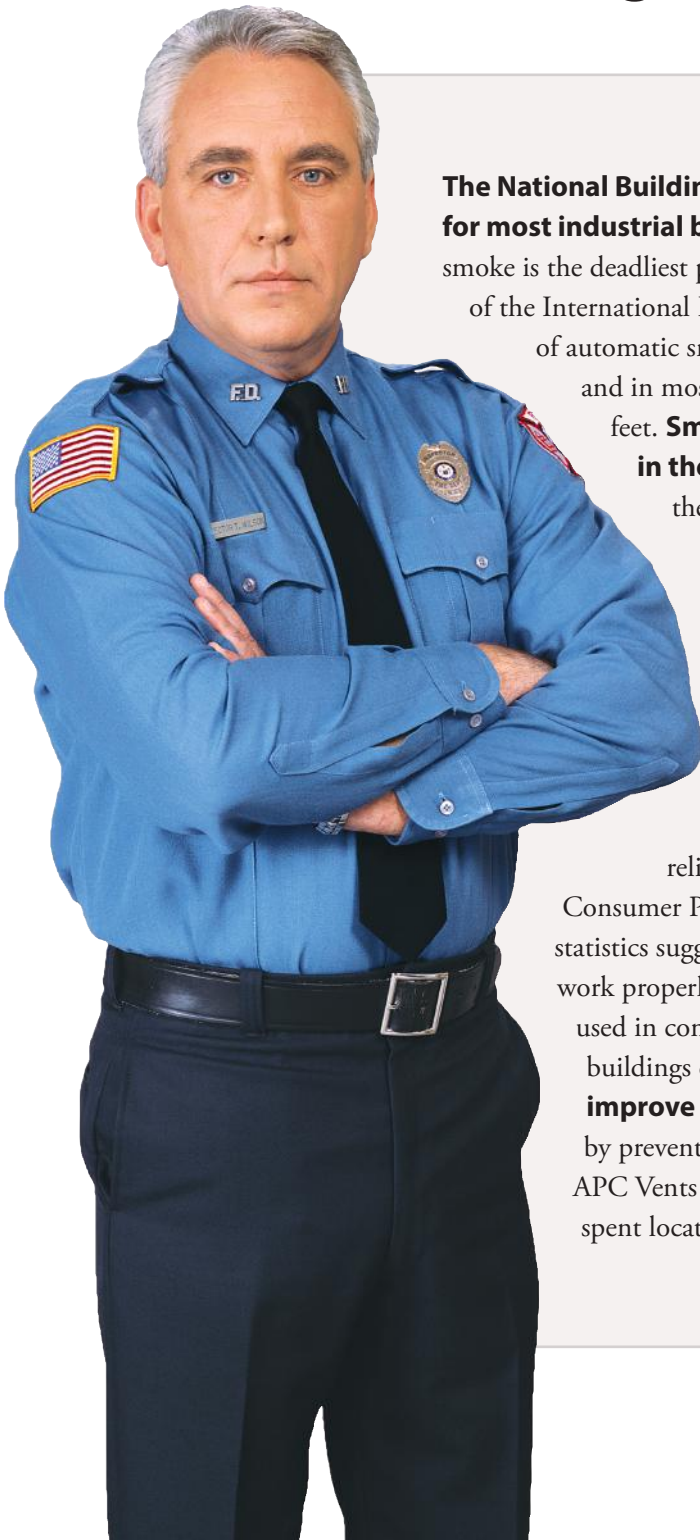
**in the roof.** One of the first things firefighters do when

they arrive at a fire is cut holes in the roof. APC smoke vents automatically open to vent toxic smoke and gases, reduce flashback and lower the building's internal temperature. Firefighters are also able to get into buildings faster to attack the firebase directly if these vents are used.

**Sprinklers alone can't always save lives and property.** Sprinklers clearly reduce

fatalities and property loss, but their reliability can't be guaranteed. The U.S.

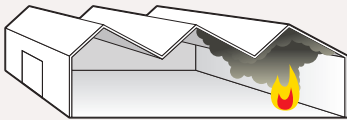
Consumer Product Safety Commission (CPSC) statistics suggest that sprinkler systems often fail to work properly due to a variety of reasons. But when sprinklers are used in combination with rooftop vents, fire safety in industrial buildings can be dramatically improved. **Rooftop vents improve firefighting.** Fire vents also reduce lateral fire spread by preventing mushrooming heat from igniting other materials. APC Vents improve visibility, which saves precious time often spent locating the fire and preventing collateral water damage.



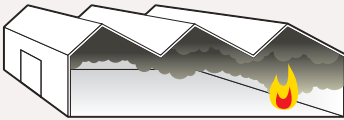


## Typical APC roof vent installation

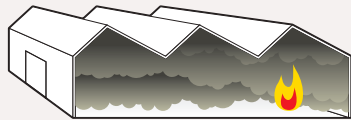
Fire and smoke spread rapidly in one story buildings. In minutes smoke and gases fill the entire structure.



Unventilated building—Fire after **two minutes**



Unventilated building—Fire after **three minutes**



Unventilated building—Fire after **four minutes**

# Six reasons why reliable, economical

1

## APC Dayliter Vents work every time.

APC Vents rely on gravity and the special heat-sensing property of its dome material. When thermally activated by the rapid heat rising from a fire, the dome material softens and releases from its retaining frame, venting smoke and gas.



2

## Works with all sprinkler systems

Our APC Vents work with any sprinkler system including ESFR sprinklers. Our vents operate within five minutes of exposure to fire, and well above 260° F sprinkler activation temperatures. If a specific temperature release above 360° F is required, our AFL model can be used.



3

## Strong yet lightweight

A typical 4' x 8' APC unit weighs 110 pounds, yet the dome material is one of the industry's strongest. APC Quadri-Dome resists hail, industrial debris and errant birds.



4

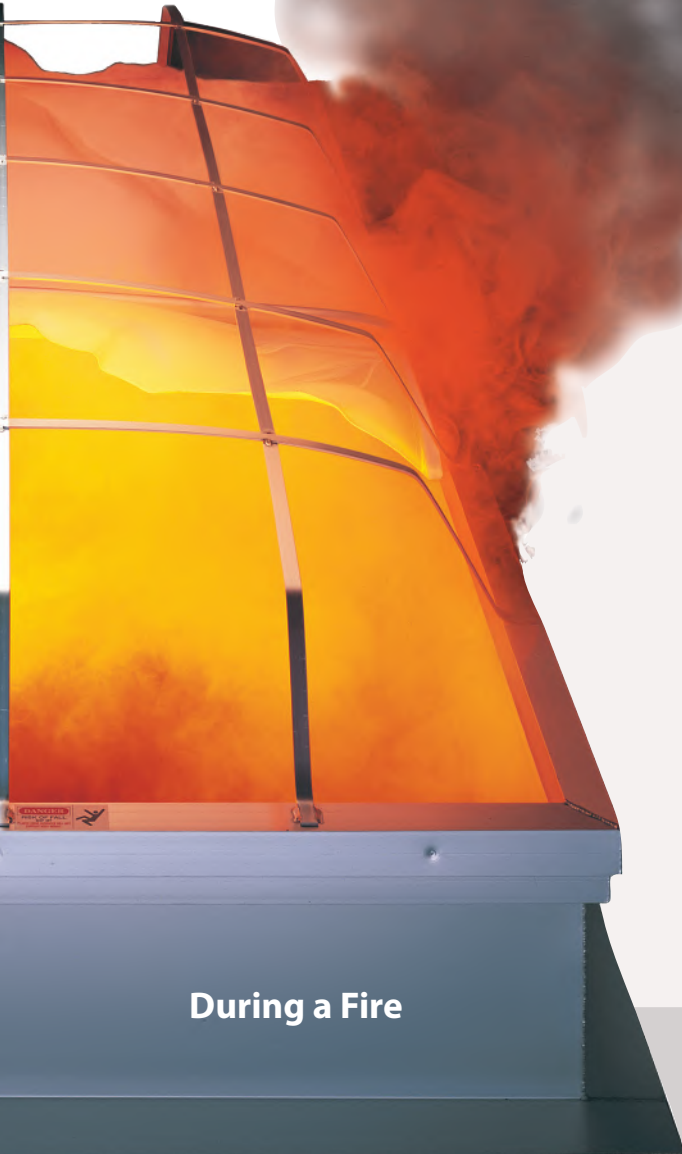
## Meets code

Section 910.2 of the International Building Code (IBC) requires most one-story, undivided buildings over 50,000 square feet have smoke vents on the roof. APC Vents meet International Building Codes.



# APC Fire Vents are the best choice

800.222.0201 | [www.apcdayliter.com](http://www.apcdayliter.com)



**During a Fire**

**5**

## No moving parts to fail

APC Vents do not have moving parts, which can corrode. They also do not require inspection or maintenance.

**6**

## Half the cost of mechanical systems and exhaust fans

APC Vents are reliable and extremely cost effective. They are easy to install, even in large units, and offer building owners substantial savings when compared to those of mechanical vents. APC is the clear choice in smoke and heat vents.



### The facts don't lie.

Below is a comparison of APC Dayliter and mechanical vents.

#### Mechanical Vents

Meets International Building Codes	Yes
Operation	Pop-up fusible link
Vent, heat, smoke and gas	Yes
Works with sprinklers	Yes
Moving parts that can fail	Yes
Standard fall protection	No
Unit weight (4'x8')	300-700 lbs.

#### APC Drop Out Vents

Meets International Building Codes	Yes
Operation	Drop out fusible dome
Vent, heat, smoke and gas	Yes
Works with sprinklers	Yes
Moving parts that can fail	No
Standard fall protection	Yes
Unit weight (4'x8')	100 lbs.

# APC Smoke Vents

APC Smoke Vents have a heat sensitive Quadri-Dome glazing that shrinks and falls from its opening automatically, which creates an unobstructed vent for heat, smoke and gas to escape. APC units will reach a fully open position after five minutes of initial exposure to fire, and also before the temperature reaches 500° F.



### Model AUL

- Meets UL standard 793 for automatically operated smoke and heat vents.
- Release rods available for manual operation.

### Model AFL

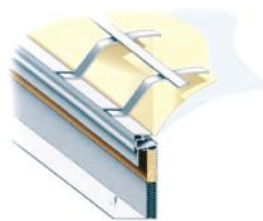
- Meets UL standard 793 for automatically operated smoke and heat vents.
- For high temperature release vents with ESFR sprinklers.
- Release rods available for manual operation.

## Curb Construction



### Double Wall

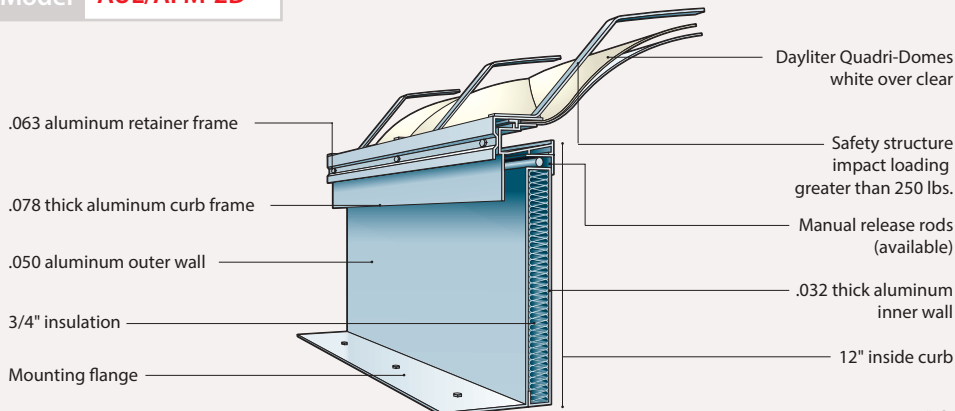
APC's double wall aluminum curb is welded at the corners and comes with Class A insulation for increased insulating values.



### Single Wall

APC's most economical prefabricated curb consists of a wood nailer and Class A insulation. It allows for easy fastening of roof flashing.

## Model AUL/AFM-2D



### Standard Sizes\*

48" X 48"
48" X 60"
48" X 72"
48" X 84"
48" X 90"
48" X 96"
60" X 101"
72" X 101"
60" X 154"
72" X 154"

\* Custom sizes available

# APC Smoke Vents

APC Dayliter™ offers a variety of options to meet your specific fire and smoke vent project requirements.

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**Curb Mounted Units**



**Curb Mounted Units**  
All APC Vents can be designed to mount on curbs by others. Please contact the APC factory for unit dimensions to ensure they will fit properly.

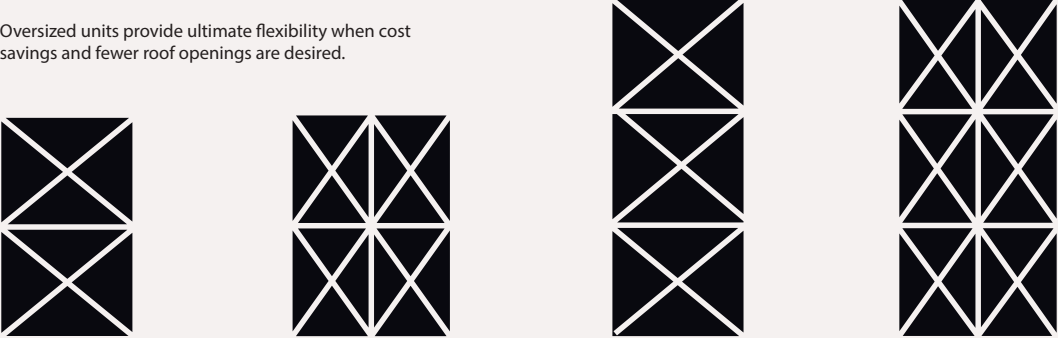
**Safety Cages**



**Safety Cages**  
APC Safety Cages are available for fire vents, skylights or explosion vents, including those from other manufacturers. APC Dayliter offers standard cages as well as OSHA compliant safety cages with 4" x 4" spacing.

**Oversized Units**

Oversized units provide ultimate flexibility when cost savings and fewer roof openings are desired.



60" X 101"      72" X 101"      60" X 154"      72" X 154"



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