

TRUCK COMPANY OPERATIONS



VERTICAL VENTILATION

It's a matter of Real Estate

Location, location, location

We agree on this...

Roof tops can save lives

So.....What's the conflict?

We want big holes.

You want bigger arrays !!

OBJECTIVES

Why we vent?

How do we do it?

What do firefighters know about PV Systems?

VENTILATION

“Procedures necessary to effect the planned and systematic direction and removal of smoke, heat, and fire gases from a structure.”

REASONS FOR VENTILATION

Saves Lives - 80% of fire fatalities are caused by smoke inhalation.

- Reduces heat
- Reduces by products of combustion/CO
- Improves visibility reducing panic and confusion
- Channel heat and smoke away from path of egress

Improves Fire Attack

- Easier to operate
- Reduces heat stress to interior crews
- Easier to locate seat of fire
- Easier to perform search and rescue
- Limits the exposure to hazardous environment

Reduces Property Damage

- Mushrooming - heat and smoke damage
- Less water damage
- Improves salvage operations
- Confines and slows down extension of fire

Reduces Backdraft and Flashover Potential

Backdraft: “The introduction of oxygen to a confined area that is pressurized with heated-flammable gases, that are deficient in oxygen, that results in an explosive force of significant intensity.”

Flashover

Flashover: “The sudden ignition of exposed combustible surfaces and / or combustible gases in an involved area that results in a sudden and intense rise in temperature.”

VERTICAL VENTILATION

Offensive/Heat Hole:

- 10% of area involved with fire.
- Directly over the fire or as close as possible safe.

Defensive/Strip Cut:

- Used as a fire break and must extend the entire width of roof.

Before Heat Hole



After Heat Hole



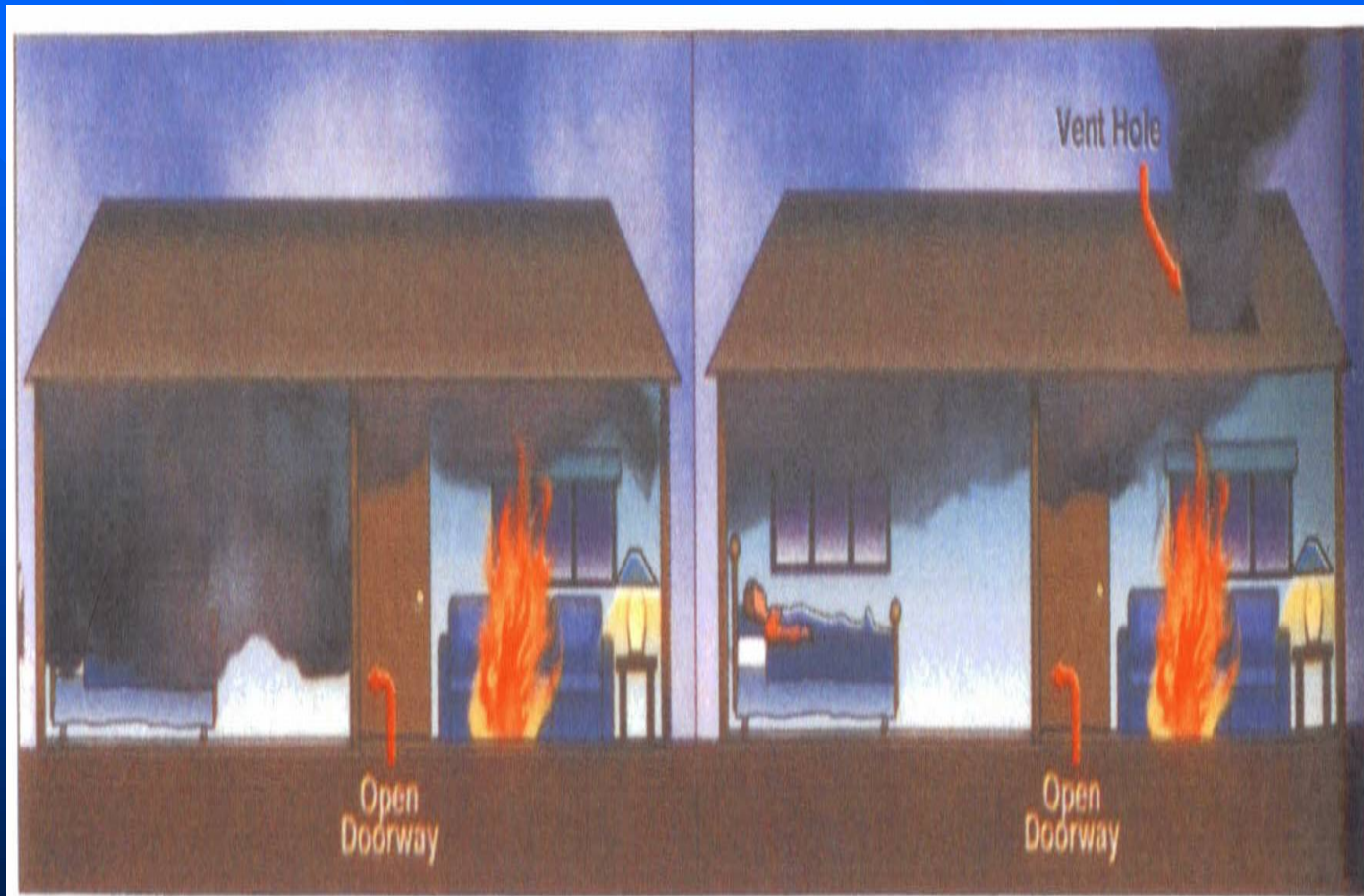




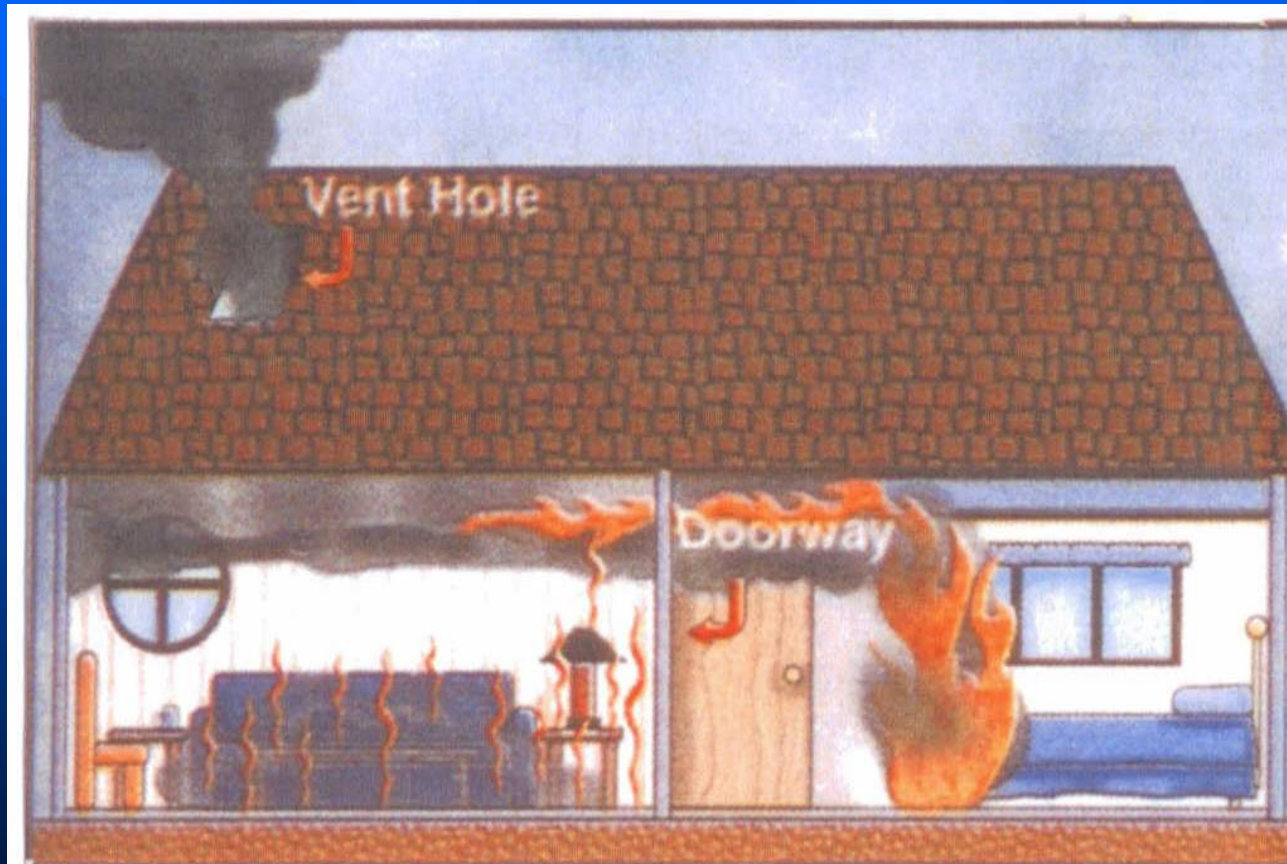
Proper Ventillation (1 of 2)



Proper Ventillation (2 of 2)



Improper Venting



“VENT AND YE SHALL LIVE”

THE END



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