

Fire Sprinklers for Manufactured Homes

This Fact Sheet was jointly produced by the U.S. Fire Administration, U.S. Department of Housing and Urban Development, and the National Institute of Standards and Technology's Building and Fire Research Laboratory. It is in the public domain and can be freely reproduced and distributed.



NIST

For more information on manufactured home fire safety see the other fact sheets in this series:

- Planning Escape,
- Smoke and Carbon Monoxide Alarms,
- Wood Stoves, Fireplaces, and Space Heaters, and
- Electrical Safety

or contact your local fire department.

Home Dangers

Every year nearly 3,500 Americans die in home fires and approximately 20,000 are injured. Children and the elderly are especially at risk in home fires because they are less able to escape when fire strikes. One way to protect those who cannot escape quickly, and at the same time protect your home and belongings, is by installing sprinklers.

Residential Sprinklers

Like the fire sprinklers found in most commercial buildings, residential sprinklers stand ready 24 hours a day to detect and suppress fires before they can become a threat to lives or property. As life safety devices, residential fire sprinklers are designed to react more quickly than their commercial cousins and thus need less water to do their work. Each sprinkler operates independently, so only those in the affected area go off. Most home fires are extinguished by one or two sprinklers with only a small amount of water.

Water Supplies

Fire sprinklers require a reliable source of water; either a city water connection or a storage tank with at least 100 gallons and a pump. Sprinklers can share a common supply and piping with the domestic water system, reducing cost but requiring additional storage capacity.

Proper Design

Many manufactured home suppliers offer fire sprinklers as an option. Where sprinklers are installed after the home is constructed, it is important to

use a qualified designer and installer. For example, sloped or beamed ceilings require special design and installation considerations. Look for a certified fire sprinkler contractor.

Maintenance

Fire sprinkler systems require periodic maintenance and inspection. This is not a do-it-yourself job and should be left to a qualified contractor. Never paint sprinklers, it can prevent them from operating in a fire.

Insurance Savings

If you have fire sprinklers you may be eligible for a discount on your property insurance. Ask your agent.

Don't Forget the Smoke Alarms

Even though fire sprinklers are effective life safety devices you still need smoke alarms. Some fires can begin as smoldering fires that produce smoke and gases but don't generate enough heat to activate the sprinklers. Smoke alarms are needed to provide warning for these situations.

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