



THE TRUTH ABOUT HOME FIRE SPRINKLERS

Fires in the home pose one of the biggest threats to the people of your community. In 2018, US fire departments responded to an estimated 1,318,500 fires. These fires caused 3,655 civilian deaths, an increase of 8 percent over the previous year. Of those deaths, roughly 73 percent occurred in the home, the very place people feel most safe.

All national safety model codes include fire sprinklers as a minimum safety requirement for new home construction. Homes built without sprinklers lack a crucial element of fire protection. Because sprinklers have been around for so long, the evidence is clear that they are a proven way to protect lives and property against fires at home—

responding quickly and effectively to the presence of a nearby fire, and requiring minimal maintenance by homeowners.

Fast Facts

- In 2018, there was a civilian fire death every 2 hours and 24 minutes in the United States.
- The risk of dying in a reported home fire is 85 percent lower where sprinklers are present.
- The cost of installation averages \$1.35 per sprinklered square foot for new construction.

MYTH: “A smoke alarm provides enough protection.”

FACT: Working smoke alarms can alert occupants to the presence of danger, but do nothing to extinguish the fire. In a fire, sprinklers can control and may even extinguish a fire in less time than it would take the fire department to arrive.

MYTH: “Newer homes are safer homes.”

FACT: Today’s home fires become deadly in as little as 2 minutes. In a fire, unprotected lightweight construction materials, used in many modern homes, burn quicker and fail faster. New homes often contain modern furnishings made of synthetic materials that, in a fire, can create a highly toxic environment, greater fuel load, and faster fire propagation.

MYTH: “Home fire sprinklers often leak or activate accidentally.”

FACT: Leaks are rare, and are no more likely than leaks from a home’s plumbing system. Home fire sprinklers are calibrated to activate when there is significant heat change—typically at 135-1650° F. Sprinklers don’t operate in response to smoke, cooking vapors, steam, or the sound of a smoke alarm.

MYTH: “When a fire occurs, every sprinkler will activate and everything in the house will be ruined.”

FACT: Home fire sprinklers operate independently. In the event of a fire, typically only the sprinkler closest to the fire will

activate, spraying water directly on the fire, leaving the rest of the house dry and secure. In roughly nine of every 10 home fires with operating sprinklers, just one sprinkler operates.

MYTH: “Sprinklers are unattractive and will ruin the aesthetics of the home.”

FACT: New home fire sprinkler models are very unobtrusive, can be mounted flush with walls or ceilings, and can be concealed behind decorative covers.

MYTH: “Sprinklers are not practical in colder climates, as the pipes will freeze and cause water damage.”

FACT: With proper installation, sprinklers will not freeze. NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes*, includes guidelines on proper insulation to prevent pipes from freezing.

MYTH: “The water damage caused by sprinklers will be more extensive than fire damage.”

FACT: In a fire, sprinklers quickly control flames, heat, and smoke. Any water damage from the sprinkler will typically be much less severe than the damage caused by water from firefighting hose lines. Sprinklers use approximately 90 percent less water on a fire than a fire department hose line would.

Free Information About Home Fire Sprinklers



FIRE SPRINKLER INITIATIVE
Bringing Safety Home™

The Fire Sprinkler Initiative® (FSI), a project of the National Fire Protection Association®, aims to increase the number

of new, one- and two-family homes protected by sprinklers. The FSI website offers free research and resources to help advocates promote the fact that sprinklers are necessary in new construction. firesprinklerinitiative.org



Home Fire Sprinkler COALITION
Protect What You Value Most™

The non-profit Home Fire Sprinkler Coalition® (HFSC) is a leading resource for accurate, noncommercial information

and materials about home fire sprinklers for consumers, the fire service, builders, and other professionals. HFSC offers free educational materials about sprinklers and how they provide affordable protection to your community. homefiresprinkler.org



IT'S A BIG WORLD.
LET'S PROTECT IT TOGETHER.®

This information is provided to help advance fire and life safety. NFPA disclaims liability for any personal injury, property, or other damages of any nature whatsoever resulting from the use of this information.

© 2020 National Fire Protection Association / May 2020