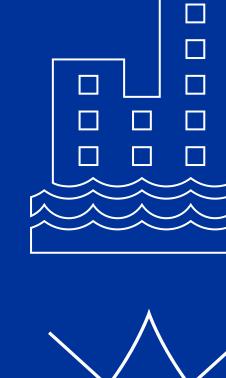


Fire sprinkler systems: Reduce the risk of unexpected water damage





Water damage is a significant source of property claims for

Property claims

commercial properties such as hotels, office buildings, shopping malls and retail structures.



Water causes over \$5B annually in property losses² Help minimize unexpected water damage

from your fire sprinkler system



systems — along with adequate building heat — can help reduce the risk of future water damage.

Inspection, testing and

maintenance of fire sprinkler

What fire sprinkler best meets

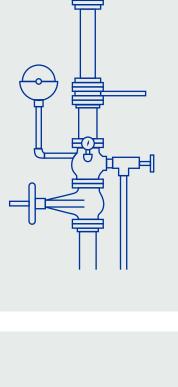


Fire sprinkler systems are designed to push out water until they are manually shut off. Installing the appropriate fire sprinkler system for your building

your needs?

and usage can help alleviate potential water damage. The wet pipe system





(most commonly used)

 Pipes are filled with water. Heat from a fire opens the sprinklers closest to the fire.

- Usually only one or two sprinklers open.³

The dry pipe system

(for areas subject to freezing temperatures)

- Pipes are filled with pressurized air or gas used

water flow.

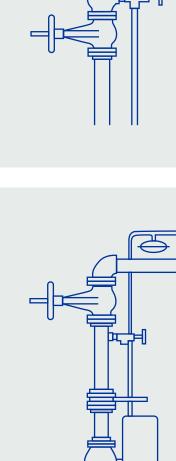
to hold water back in a heated space. Heat from a fire opens the sprinklers closest to the fire, air escapes and the dry pipe valve opens to allow

- Usually more sprinklers open than with a wet pipe system.3
 - The deluge system

(for high-hazard environments that

could have fast-spreading fires)

 Pipes are not filled with water or gas as all sprinklers are open. A signal from a fire detection device opens the deluge valve.



Water will flow from all sprinklers.³

The pre-action system (for areas where concerns of water damage to property or equipment are high)

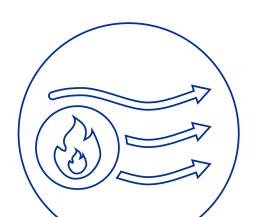
- Pipes are filled with pressurized air or gas. Loss of air or gas pressure summons maintenance. A signal from a fire detection device opens the pre-action valve, filling the pipes with water. Because sprinkler heads are closed, heat from a fire opens the sprinklers closest

to the fire.

pre-action systems use more air or gas pressure in the pipes, delaying the water delivery and allowing more sprinklers to open at a time (similar to dry pipe systems).³

– Usually only one or two sprinklers open (similar to the wet pipe system). However, "double interlock"





Overheating

from excessive

temperature

near sprinklers

Vehicle impacts.

Damage to

sprinkler pipes

and hydrants by

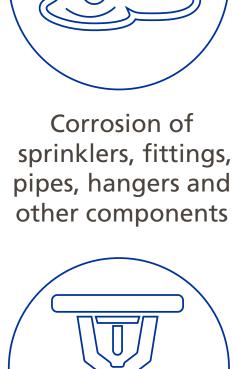
forklifts etc.

What are the potential

risks of water damage?

Freezing of

water-filled pipes



Mechanical

damage





Environmental

stress cracking

of CPVC plastic

sprinkler pipe

and fittings

Installation

defects



Damage

Destruction to property -

contents, interior

finishes and

utility systems



protection systems that detect, control or extinguish a fire



Disruption

Loss of building

use during repairs –

interruption of

business income

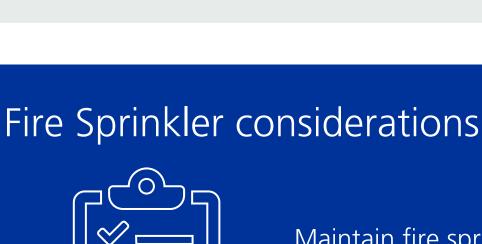
and/or rental income

Reputation

Lost customers or tenants due to the

interruption

Health effects **Possible** development Costs of mold Repair or



Maintain fire sprinkler systems in accordance with recognized standards

replacement of fire sprinkler system



1, 2 http://www.amerestoration.com/water-damage/ http://www.incontrolfp.com/systems/

Take action to reduce the chance of

fire sprinkler system freeze-ups