



Permanent Exterior Fire Suppression System

System Overview

A **FireShield™** Exterior Fire Suppression System is comprised of several strategically placed delivery heads, or nozzles that can spray a direct pattern of fire retardant onto a targeted structure or area. These delivery heads are fed from a holding tank containing the retardant. Once the **FireShield™** suppression system is activated by sensors or any of the activation methods, the tank is pressurized using an inert gas. This propels the fire retardant over the planned area. In larger installations or systems where several hundred feet of a canyon for instance need to be protected, the Perimeter Protection System would be suggested.

The **FireShield™** is a truly “set it and forget it” system that does not rely on municipal utilities such as water, electrical, or other services, it is self contained and self supporting. **FireShield™** suppression systems utilize the phosphorous based fire retardants that are the safest, most effective and environmentally friendly retardants available today. These retardant are fully qualified by the Canadian Inter Agency Forest Fire Centre and the USDA.

There are several options to activate the **FireShield™** suppression system with our most advanced being the **FirePosse360™** Early Warning Fire Detection and Integrated Security Solution. This option will detect fires from distant locations and will notify local command centers and activate the **FireShield™** exterior spray system. It will also notify anyone included in the internal address list via text messaging and/or email and display the fire status on the command centre PC's. Details on the **FirePosse360™** are available as a separate document.

The **FS1000™** Activation is available as an alternate option to activate the **FireShield™** using state of the art electronics and has power backup. The **FS1000™** may be used to activate the **FireShield™** spray system by manual pull station, key pad, telephone dialer, or a variety of contact closures.

The **FireShield™** Exterior Fire Suppression System is comprised of four main components:

1. Retardant Holding Tank. A storage or retention tank located in the mechanical room, garage, or suitable storage area.
2. Inert Gas Cylinder. A cylinder of inert gas with a preset regulator and safety cap is secured to a wall or foundation.
3. Activation Devise. A device to activate the **FireShield™** exterior spray system which may be the fully automated **FirePosse360™**, the **FS1000™** activation system, heat or flame sensor, telephone activation, remote activation such as a central monitoring station, or any contact switch. We are able to activate the system with any combination of the mentioned devises.
4. Spray Nozzles. Typically we have nozzles mounted under the soffits of the structures and on the roof if it is beneficial to protect the roof area. Our roof top nozzles have a

typical spray radius of 50 feet (15.25 m) with a trajectory of 23 degrees, and cover the entire roof and surrounding decks and vegetation. The wall coverage nozzles have a typical spray radius of 15 feet (4.5 m) meaning that they will cover a wall area of 30 feet (9 m) and an area 15 feet (4.5 m) away from the building. Wall coverage nozzles are therefore spaced 20 feet (6 m) apart to afford the extra protection and overlap.



Firebreak Canada Corp.
R.R. 1
Sundre, AB T0M 1X0

Phone: 1.403.507.4772
Info@FirebreakCanada.com
www.FirebreakCanada.com