Iron Owl Rooftop Sprinklers

Rooftop Sprinklers are a proven method of improving the chances that a building will survive a wildfire.

When Rooftop Sprinklers are activated, they spray water high up in the air which lands on the roof, trees, and other surfaces that are within range.

Some of the water evaporates, which increases the relative humidity while reducing temperatures in the microclimate. The microclimate is the area right around where the sprinklers are located. Increased humidity and reduced temperatures make the area under the sprinklers less conducive to fire. Our philosophy is: "The wetter - the better."

Temperatures in the attic, in the building, and in the surrounding area will drop. Wet roofs, trees, bushes and lawns are less likely to ignite when a hot ember lands on them. The cumulative effect of the huge influx of water to the local area is not guaranteed to stop a fire from causing damage, but it can greatly reduce the chances of fire damage by creating a wet, cool, humid environment.

Please research and maintain safe "Defensible Space Zones" on and around your property. Creating defensible space is essential to improve your home's chance of surviving a wildfire. It's the buffer you create between a building on your property and the grass, trees, shrubs, or any wildland area that surround it. This space is needed to slow or stop the spread of wildfire and it protects your home from catching fire—either from direct flame contact or radiant heat. Defensible space is also important for the protection of the firefighters defending your home.

Rooftop Sprinklers should be installed immediately, please do not wait for a fire in your state before installing the sprinklers. Activate the sprinklers if there is a fire within 100 miles of your building and leave them running until all fires have been extinguished. If the sprinklers are installed correctly, they will soak the area as long as the water is flowing. **Always immediately evacuate a building in case of fire. Never stay inside of a building in case of fire. Always evacuate based on instructions from government authorities.**

www.sandiegorooftopsprinklers.com

Iron Owl Rooftop Sprinkler Installation Instructions:

Please read this entire manual all the way to the end before attempting to install the product.

1) Loosen the fasteners on each clamp until the legs can move freely. It is not necessary to loosen the fasteners all the way.

2) One leg on each side of the sprinkler should go on each side of the roof and the body of the Sprinkler should be parallel to the center line of the roof. **SEE DIAGRAM A,D,F**

3) Adjust the angle of the legs so that the brass sprinkler is level and the legs are resting on the roof. **SEE DIAGRAM D,F**

4) Tighten the fasteners all the way and make sure that the sprinkler head remains level and as low as possible. **SEE DIAGRAM D,F**

5) Connect to water supply with appropriate hose. **SEE DIAGRAMS B,C,E**

Check the position of the tab on the Rain Bird 25PJDAC Brass Impact Sprinkler. If the tab is in the up position, the sprinkler should slowly rotate clockwise only. If the tab is in the down position, the sprinkler should slowly rotate clockwise, reach one of the user adjustable stops, and then proceed to rotate counter clockwise until it reaches the other user adjustable stop at which point it will begin the cycle again. If the tab is in between positions it will cause an error and the sprinkler will begin to rotate clock wise and then stop moving.

7) Connect multiple sprinklers in series using multiple hoses. **SEE DIAGRAMS B,E**

8) Turn on the water for at least five minutes and test immediately to gauge if water output is adequate and coverage area is as desired. Test monthly.

9) If you are happy with the position of the sprinklers, apply permanent thread lock (sold separately) to the threads at the top of the leg, and to the threads on screws that hold the clamps together. Follow the instructions included with the Permanent Thread Lock.

10) If temperatures reach 40 degrees or lower, disconnect hose and drain water.

11) Test monthly to see if the sprinklers are working and that water output meets your needs. Spray Distance is dependent on multiple factors including water pressure and can never be guaranteed by the manufacturer and should not be calculated. Only by testing the sprinklers can water output and spray pattern be measured.

DIAGRAM A
CLOSE UP OF SPRINKLER INSTALLED ON ROOFTOP
TOP VIEW (BIRDS EYE)

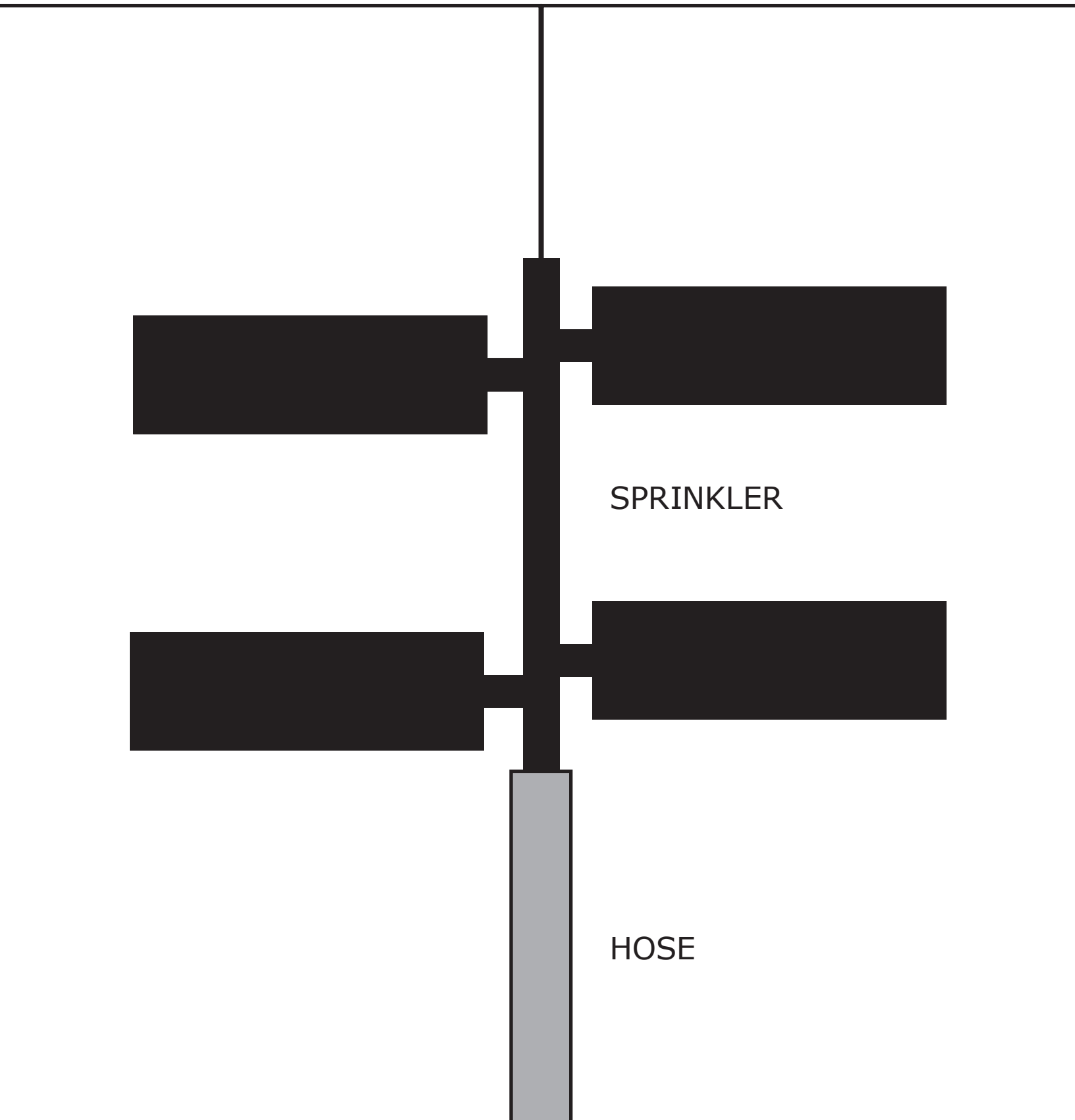


DIAGRAM B
MULTIPLE SPRINKLERS INSTALLED ON ROOFTOP
USING ADDITIONAL HOSES
TOP VIEW (BIRDS EYE)

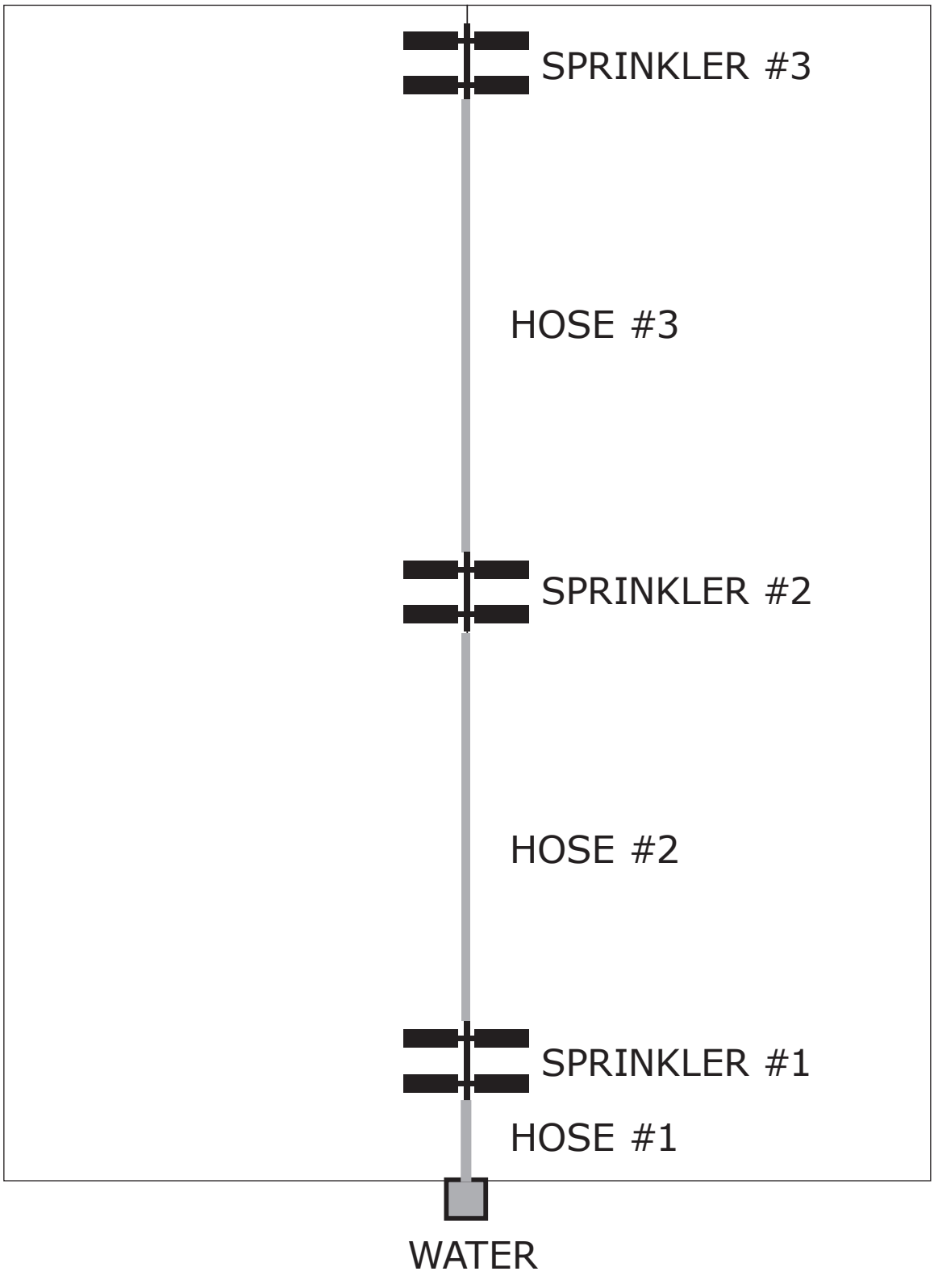


DIAGRAM C
SPRINKLER INSTALLED ON ROOFTOP
FRONT ELEVATION VIEW

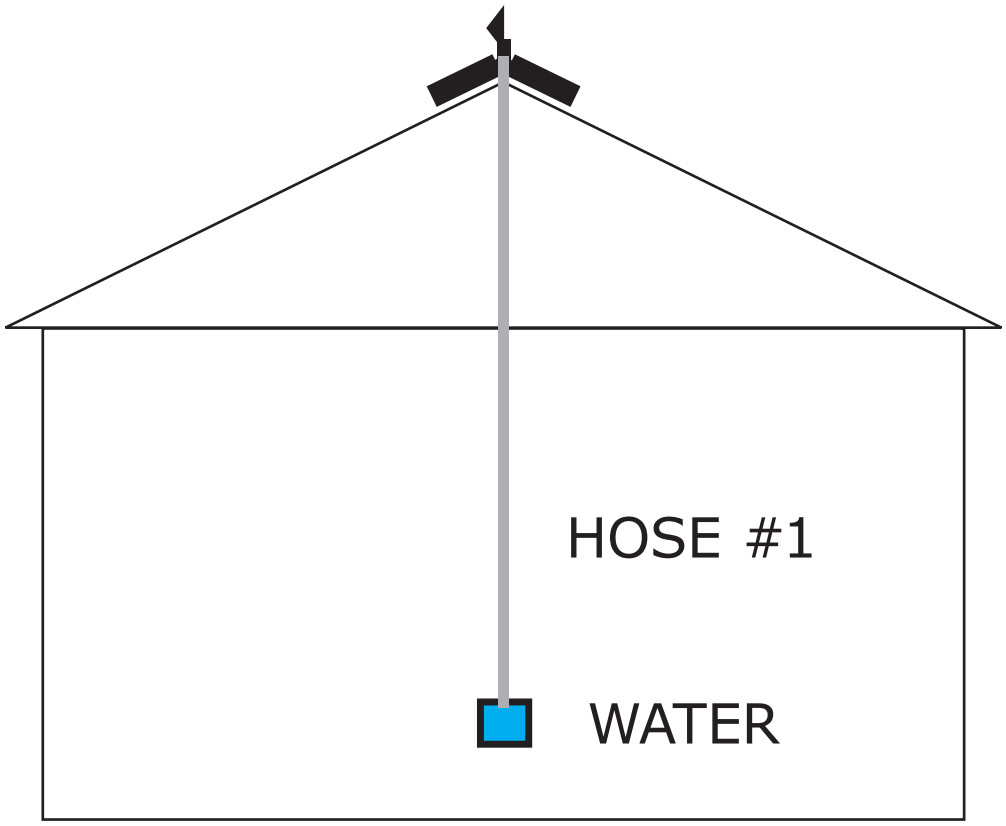


DIAGRAM D
CLOSE UP OF SPRINKLER INSTALLED ON ROOFTOP
FRONT ELEVATION VIEW

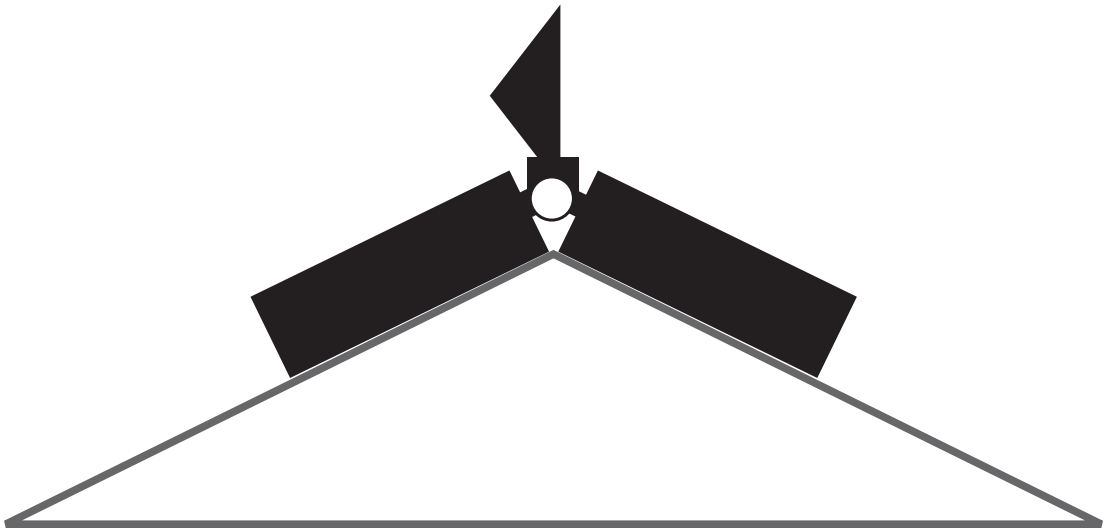


DIAGRAM E
MULTIPLE SPRINKLERS INSTALLED ON ROOFTOP USING ADDITIONAL HOSES.
SIDE ELEVATION VIEW

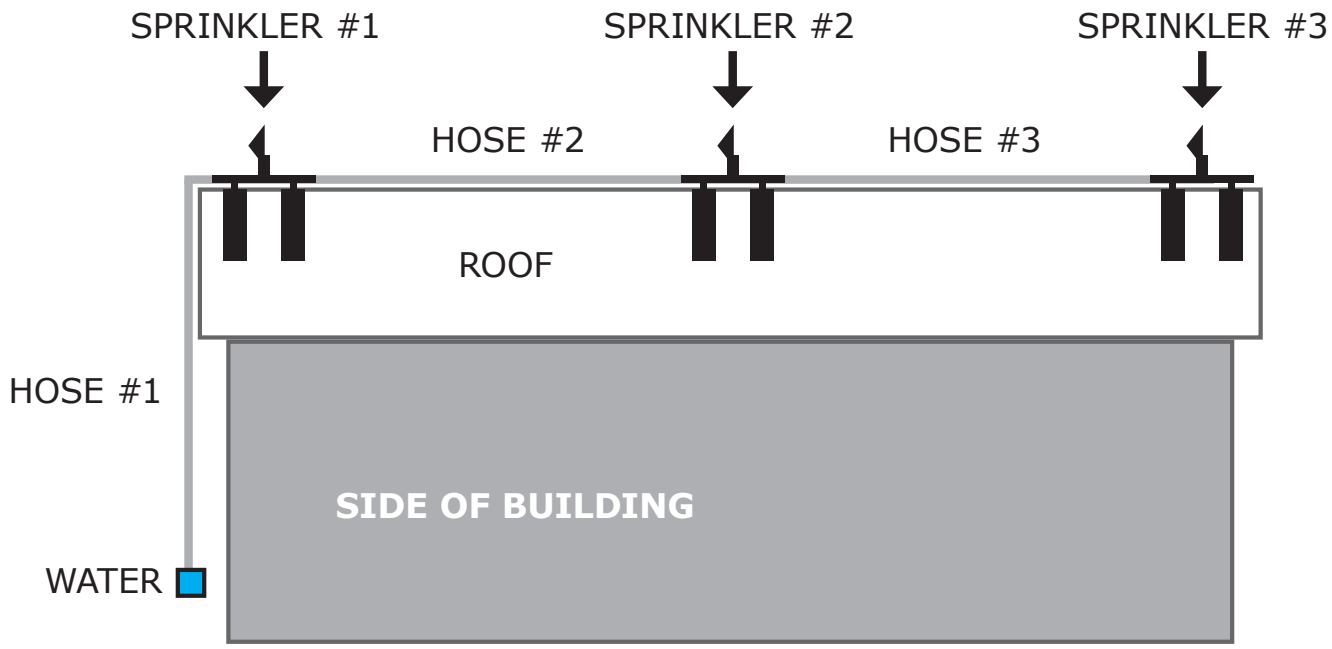
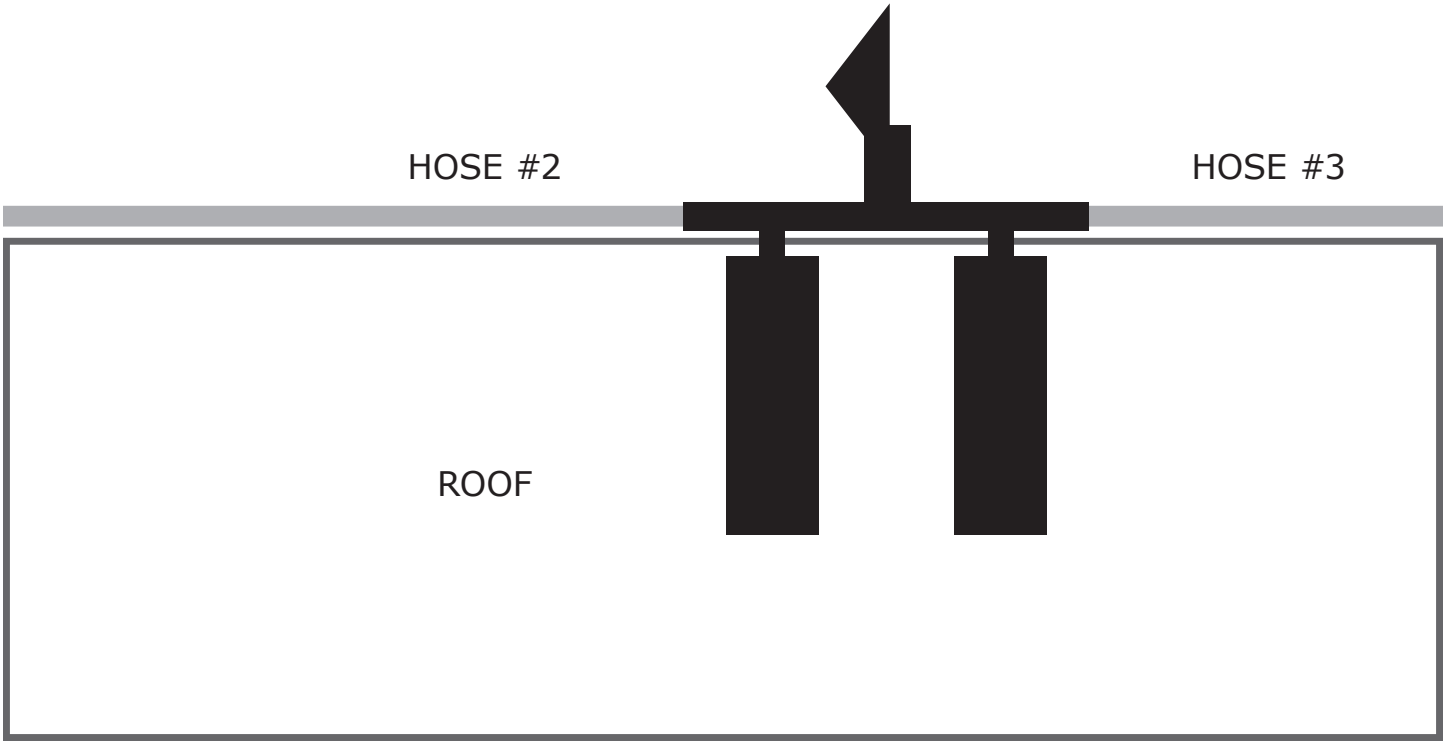


DIAGRAM F - SPRINKLER INSTALLED ON ROOFTOP
SIDE ELEVATION VIEW



Will water go in my chimney?

If you aim a sprinkler at your chimney and test it, you will see if any water goes in through the chimney as it will collect in your fireplace. If this happens, you should reposition the sprinkler or adjust the direction that the water is sprayed.

Will rooftop sprinklers stop my home from catching fire?

No, there is no way to guarantee that. **Always immediately evacuate a building in case of fire. Never stay inside of a building in case of fire. Always evacuate based on instructions from government authorities.** However, if there is a fire nearby and your sprinklers are activated hours in advance, the water saturation levels of your home and the surrounding property can make a difference. A hot, dry, wood framed building is more likely to catch fire due to a nearby wildfire than a cool humid wet, wood framed building. Reducing the temperature of your home, increasing the humidity in your home, and wetting the surrounding property can all help your home from catching fire. If the fire is too big and too hot, it will consume your home. You can only hope to improve your chances by soaking your property. You may want to also install sprinklers that face away from your property in the direction you would expect a fire to come from.

What is the minimum operating PSI to run three (3) sprinkler.

Please do not attempt to calculate the minimum PSI, only use test and measure to determine if all the sprinklers are outputting enough water to meet your needs. Keep in mind that the manufacturer has no control of the water pressure or water getting to the sprinklers at your location. We have looked into the calculations needed to determine psi required and just some of the critical factors IN ADDITION TO PSI AT THE SPIGOT are the type of hose or pipe used, the length of hose or pipe used, and the altitude of the sprinklers compared to the spigot or hose bib. These factors will drastically change the PSI needed at the spigot to run three sprinklers. In many cases, a single spigot can run two sprinklers. We suggest that you connect three sprinklers to one spigot and repeatedly test to make sure that the water output for each sprinkler meets your needs at your location in real world testing. Some customers need less GPM as they use this to cool their home and keep their landscape moist.

What is the GPM rating of each unit?

The Rain Bird 25PJDAC Brass Impact Sprinkler can put out UP TO 7 GPM but may put out just 5 GPM, 2 GPM, or nearly zero. The only way to get an actual answer is to test and measure at your location using your spigots, hose, and roof.

Will installing these sprinklers protect my building from wildfire?

No sprinkler system or like device can protect buildings or the occupants of buildings from wildfire. This sprinkler system will distribute water over your property if: installed correctly, activated in advance, and assuming water is flowing to the sprinklers. Rooftop Sprinklers will continue to operate without supervision. **Always immediately evacuate a building in case of fire. Never stay inside of a building in case of fire. Always evacuate based on instructions from government authorities.** If properly installed and operated in accordance with the applicable instructions, a sprinkler will reduce the risks posed by ember attack. Sprinklers will not protect buildings or the occupants of buildings from the direct flame or radiant heat of a wildfire. The purchasers will install and operate sprinklers at their own risk and release and indemnify the manufacturers and suppliers of sprinklers and their directors, officers, servants, agents, employees and assigns from and against all actual, direct, indirect or alleged claims, damages, demands, losses, costs, liabilities, suits, actions, expenses or proceedings any whether arising under any statute or at common law, arising out of or in connection with injury to (which shall include illness) or death of any person or damage to or destruction of any real or personal property caused directly or indirectly by or in connection with the manufacture, supply, installation, operation or performance of sprinklers. Manufacturer is not responsible for adequate water flow to sprinkler in any event, such as but not limited to if the water supply is turned off or if there is a lack of water pressure.

Iron Owl Rooftop Sprinklers are manufactured by Platinum Digital Media Inc.