



Achieve Greater Efficiency With Zurn® Siphonic Roof Drains



[Learn more](#)

In commercial construction, efficiency and effective use of space are crucial. The siphonic drain is designed to operate with 100% full flow, which results in increased discharge, smaller pipe diameters and fewer drains.

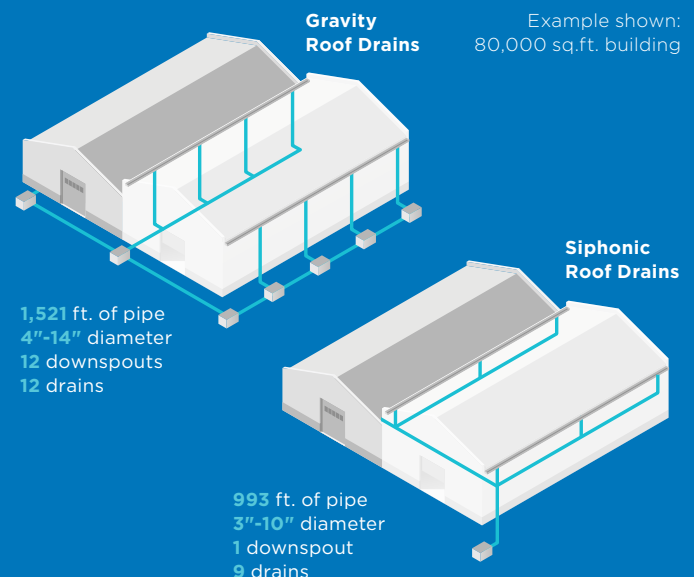
Each Zurn® siphonic drain system is customized to meet the needs of the individual building. They provide superior drainage while saving space and reducing cost.

The Zurn Difference

Zurn siphonic drains use non-sloped, horizontal piping that takes up less space because it runs right below the roof for greater efficiency, as compared to gravity drains. This design allows for flexible vertical stack placement based on individual architectural needs.

In a Zurn siphonic drain system, full-bore flow can occur with as little as 2 inches of water depth from the roof surface. Multiple drains can flow into a common horizontal collector pipe. This pipe turns downward into a vertical downpipe and transitions to conventional gravity drainage at a location to suit the design criteria of site expectations.

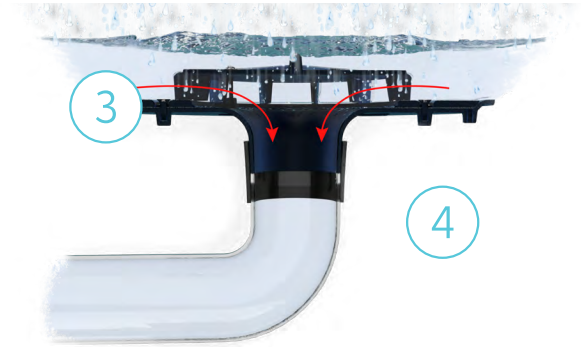
Up to **65%** + Up to **50%**
less pipe and material reduction in pipe size



Based on the assumption
of rainfall rate of 4"/hr.

How Siphonic Roof Drains Work

1. When not operating under siphonic conditions, the system will operate just like a gravity system.
2. Siphonic drainage is achieved by adding a highly engineered air baffle to an equally engineered drain body designed to minimize the friction coefficient of the drain.
3. The integral fins of the air baffle prevent vortex flow, while the solid baffle plate restricts air from entering the vertical tailpipe and horizontal collector piping.
4. With the absence of air, negative pressure pockets form, and water accelerates down the vertical pipework, creating and maintaining the siphonic action until the stormy weather conditions pass.



Z130S
Siphonic Roof Drain



Z131S
Siphonic Overflow Roof Drain

Get More With Zurn

We'll partner with you to create a custom roof system that gives you more.

- Consultation call prior to installation
- Reduced building costs by 65% using smaller pipe diameter
- Installation time cut in half with an integrated deck plate
- Focused channeling of water with non-sloped horizontal piping
- Gain more usable space with horizontal piping below the roof for fewer obstructions
- Earn LEED credits for materials, innovation, sustainable sites, water efficiency, regional priority and atmosphere
- Experience higher flow velocities that prevent clogging and make system self-cleaning
- Calculation and balancing included
- Complimentary consultation included discussion of revised calculations and system alterations

Fill out our [Siphonic Drainage Design Request form](#)
and a Zurn Elkay drain expert will reach out to help create your custom drainage system.