



JAY R. SMITH MFG. CO.
MEMBER OF MORRIS GROUP INTERNATIONAL

SIPHONIC ROOF DRAINS

THE LEVEL APPROACH TO ROOF DRAINAGE



**Engineered
Full-Bore Flow**



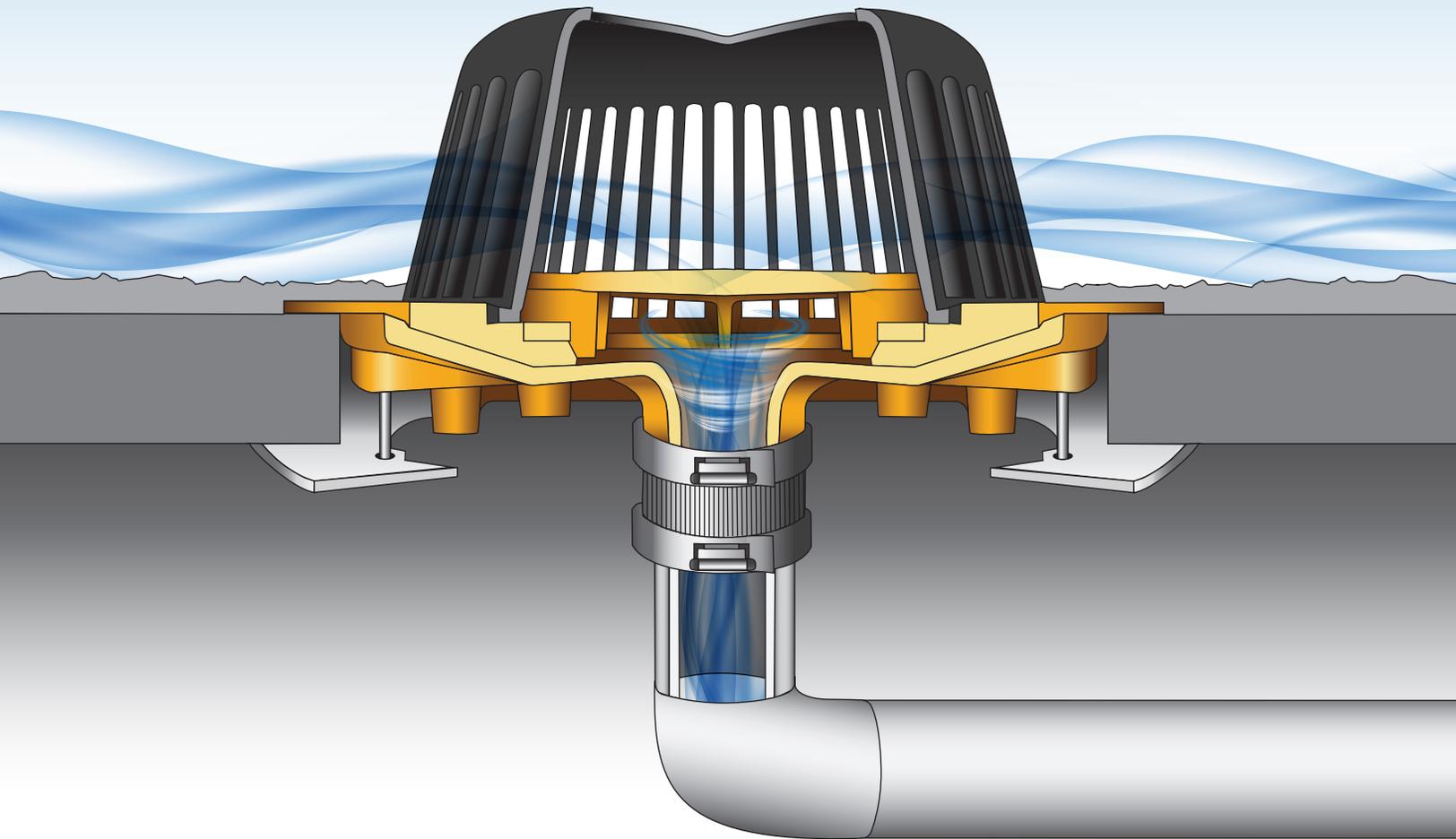
FIGURE NO. 1605



FIGURE NO. 1005

SIPHONIC ROOF DRAIN

15 1/4" (390) DIAMETER—LOW PROFILE DOME



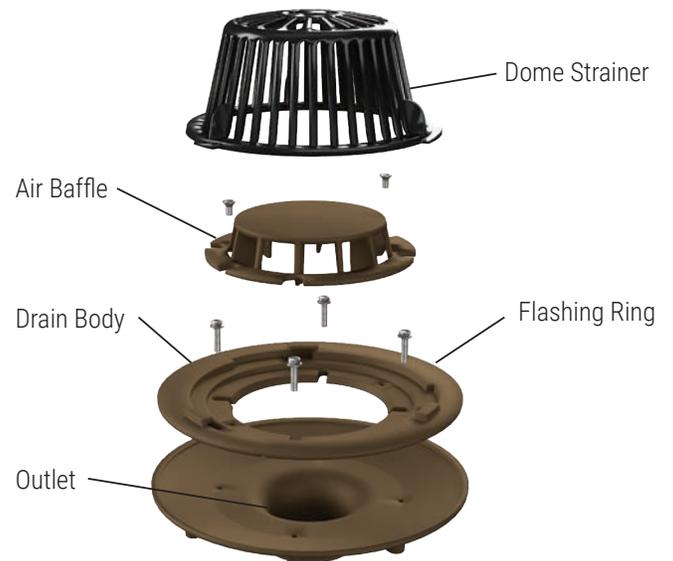
COMPONENTS OF A SIPHONIC ROOF DRAIN

A siphonic roof drain looks much like a traditional roof drain. The distinguishing feature of a siphonic roof drain is the air baffle which is engineered and tested to prevent air from entering the piping system at peak flows.

Other than the baffle, a siphonic roof drain has the same features as a traditional roof drain including a drain body, flashing ring, dome strainer, and fastening hardware.

In contrast to traditional roof drains, siphonic roof drains are not designed with a large diameter or deep sump bowl because their operation is by means of sub-atmospheric pressure generated at the under side of the baffle and outlet.

A siphonic system is designed to operate with the piping completely filled with water during a rainstorm. Several drains tie into a horizontal collector that is routed to a convenient point where it transitions into a vertical stack.



PRODUCT SELECTION

SIPHONIC ROOF DRAIN

15 1/4" (390) DIAMETER - LOW PROFILE DOME



Figure Number: 1005Y No-Hub Outlet

FUNCTION: For use in engineered siphonic roof drainage systems. May be used in flat roof of any construction. The large low profile dome provides sufficient free area for quick drainage of rainwater and protects the drain sump, baffle and connected piping from the intrusion of debris. Internal air baffle creates siphonic drainage action producing a more efficient drainage than traditional roof drains.

BENEFITS:

- Full-bore flow within the piping enables pipe diameter to be reduced.
- Siphonic action is independent of pipe pitch or gradient.
- Smaller pipe diameters allow maximum use of open space and reduce material costs

FEATURES:

- Minimizes slab installation costs
- Promotes self-cleaning of debris from the piping system.
- Fully tested and certified in accordance with ANSI/ASTM A112.6.9 "Siphonic Roof Drains" and ASPE 45

SIPHONIC GUTTER DRAIN

6" (150) DIAMETER - LOW PROFILE GUTTER DRAIN



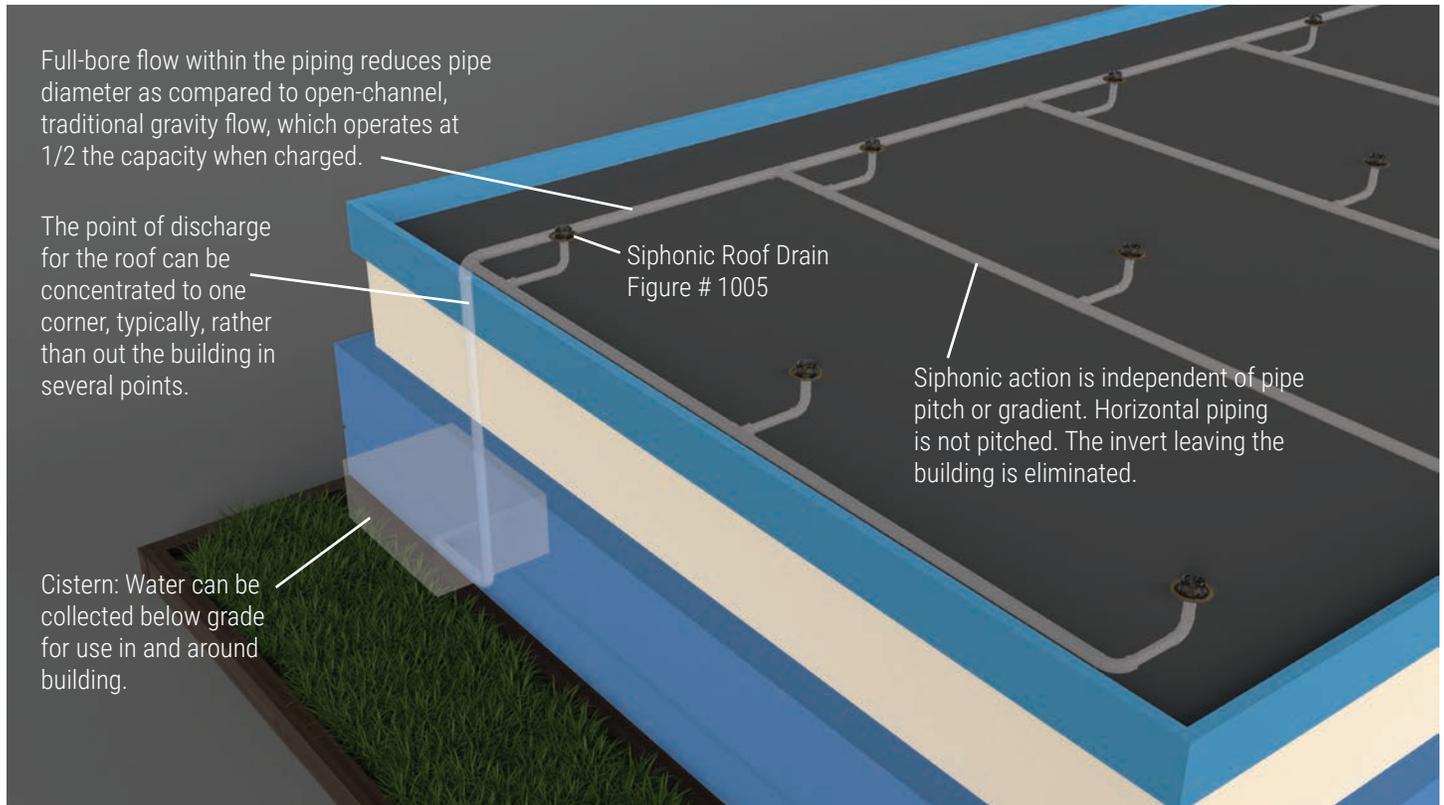
Figure Number: 1605Y No-Hub Outlet

FUNCTION: For use in engineered siphonic roof drainage systems for gutters, parapets, small balconies, sills, cornices, marquees and other small overhanging areas where drainage of rainwater is required. Air baffle creates siphonic drainage action producing a more efficient drainage than traditional gutter drains.

THE MANY BENEFITS OF USING THE JAY R. SMITH MFG. CO. SIPHONIC ROOF DRAIN SYSTEM

Driving head of the system is up to 100 times that of a traditional system (i.e. height of building vs. depth on roof); reducing pipe size and promotes self-cleaning of debris.

Smaller pipe diameters allows maximum use of open space without intrusion of drainage piping. This also reduces material costs.



Level installation and freedom of placement of vertical stacks reduces buried pipe depths and the associated costs of trenching, bedding, shoring, and dewatering. The flexibility of stack placement also facilitates on-site rainwater harvesting systems.

Below-slab installation costs are minimized, thus reducing excavation, backfill costs and exterior underground piping.



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 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov