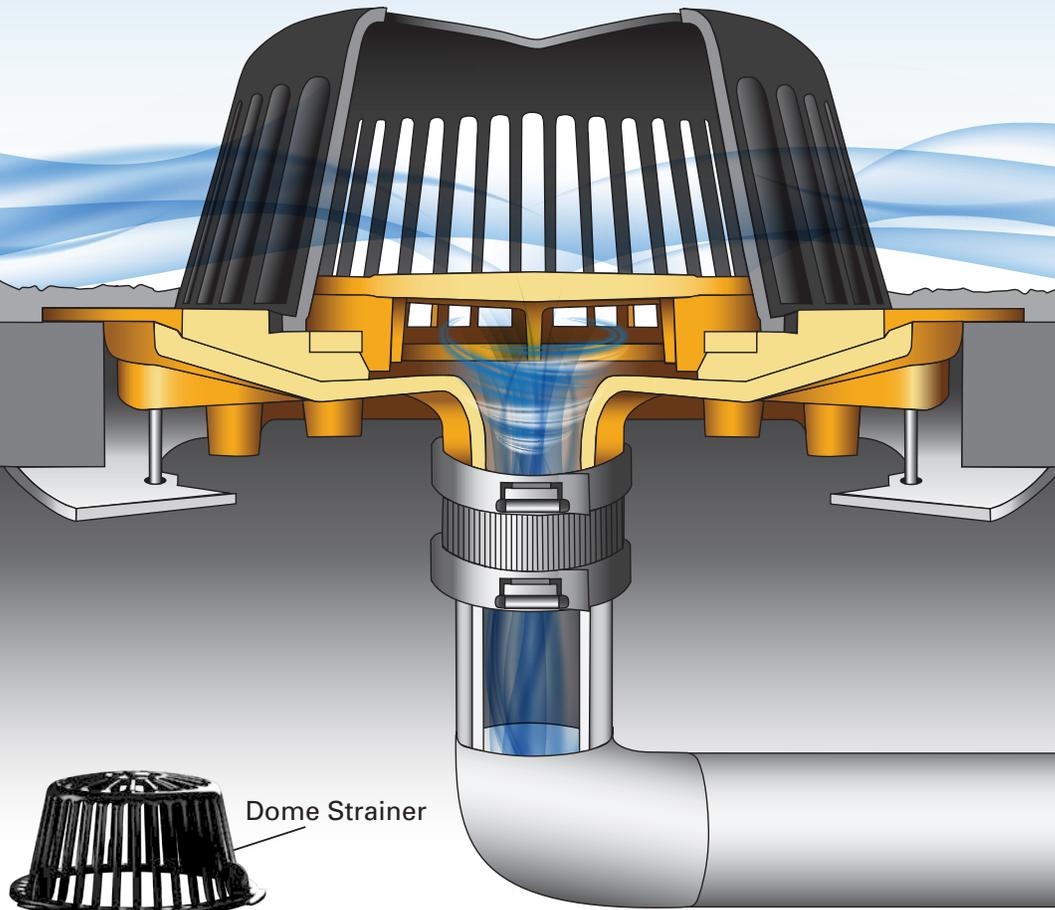




JAY R. SMITH MFG. CO.
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SIPHONIC ROOF DRAINS

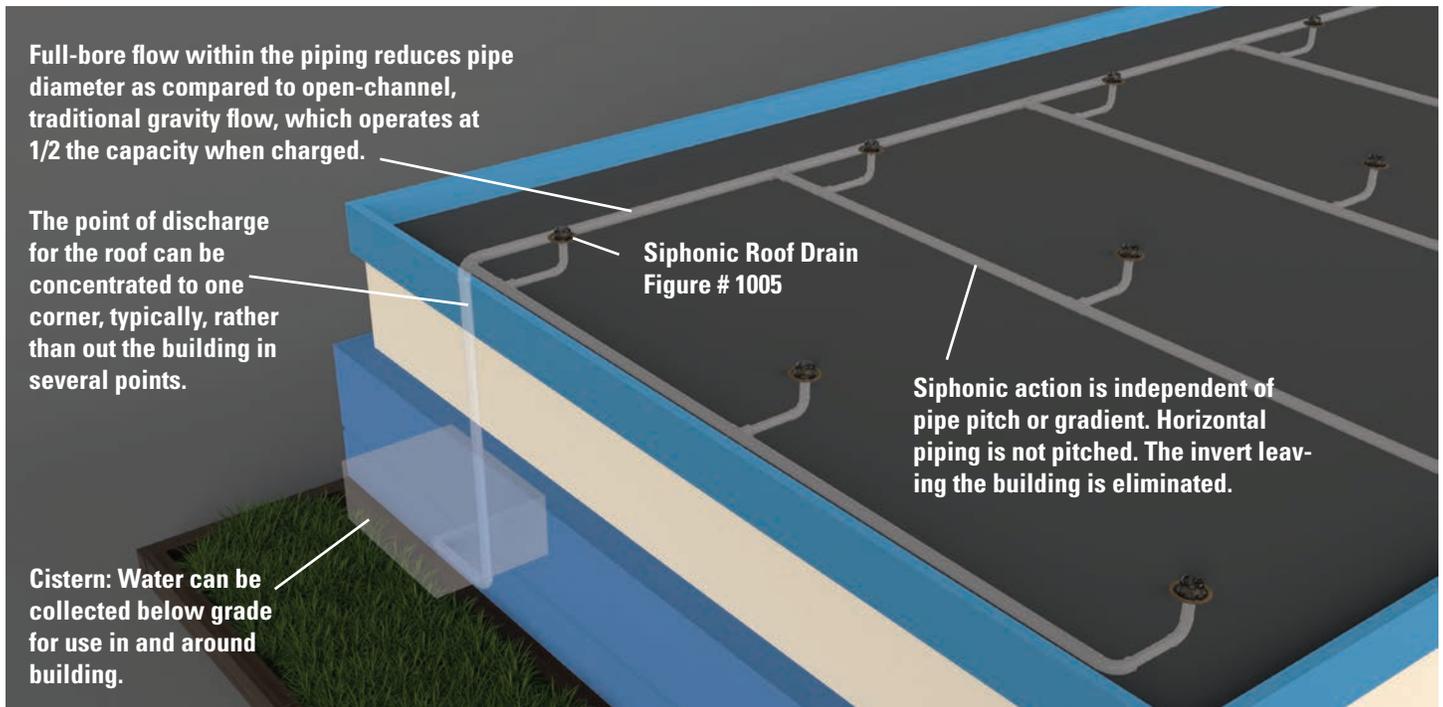
THE LEVEL APPROACH TO ROOF DRAINAGE



COMPONENTS OF A SIPHONIC ROOF DRAIN

A siphonic roof drain has the same features as a traditional roof drain, with the distinguishing feature of an air baffle, which prevents air from entering the piping system at peak flows, allowing the piping to be completely filled with water during a rainstorm.

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



Full-bore flow within the piping reduces pipe diameter as compared to open-channel, traditional gravity flow, which operates at 1/2 the capacity when charged.

The point of discharge for the roof can be concentrated to one corner, typically, rather than out the building in several points.

Cistern: Water can be collected below grade for use in and around building.

Siphonic Roof Drain
Figure # 1005

Siphonic action is independent of pipe pitch or gradient. Horizontal piping is not pitched. The invert leaving the building is eliminated.

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.

PRODUCT SELECTION

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



FIGURE NO. 1005T Male Thread Outlet
FIGURE NO. 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.

SIPHONIC GUTTER DRAIN 6" (150) DIAMETER - LOW PROFILE GUTTER DRAIN



FIGURE NO. 1605T with Male Thread Outlet
FIGURE NO. 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.

SPM 0871
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