

# Features and Benefits of Siphonic Roof Drainage Systems

by Jay R. Smith Mfg. Co.®

Achieve 40% - 50% savings over conventional roof drainage!\*



Fig. 1005

Fig. 1605

The 1005 and 1605 Full-Bore Siphonic Roof Drains promote the principal of full-bore flow within the engineered siphonic roof drainage piping system. These drains use Siphonic action created by a patented internal baffle to have superior volume and velocity performance compared to traditional roof drainage. 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.

## Siphonic Roof Drains and Systems - At a Glance:

### Features

### Benefits

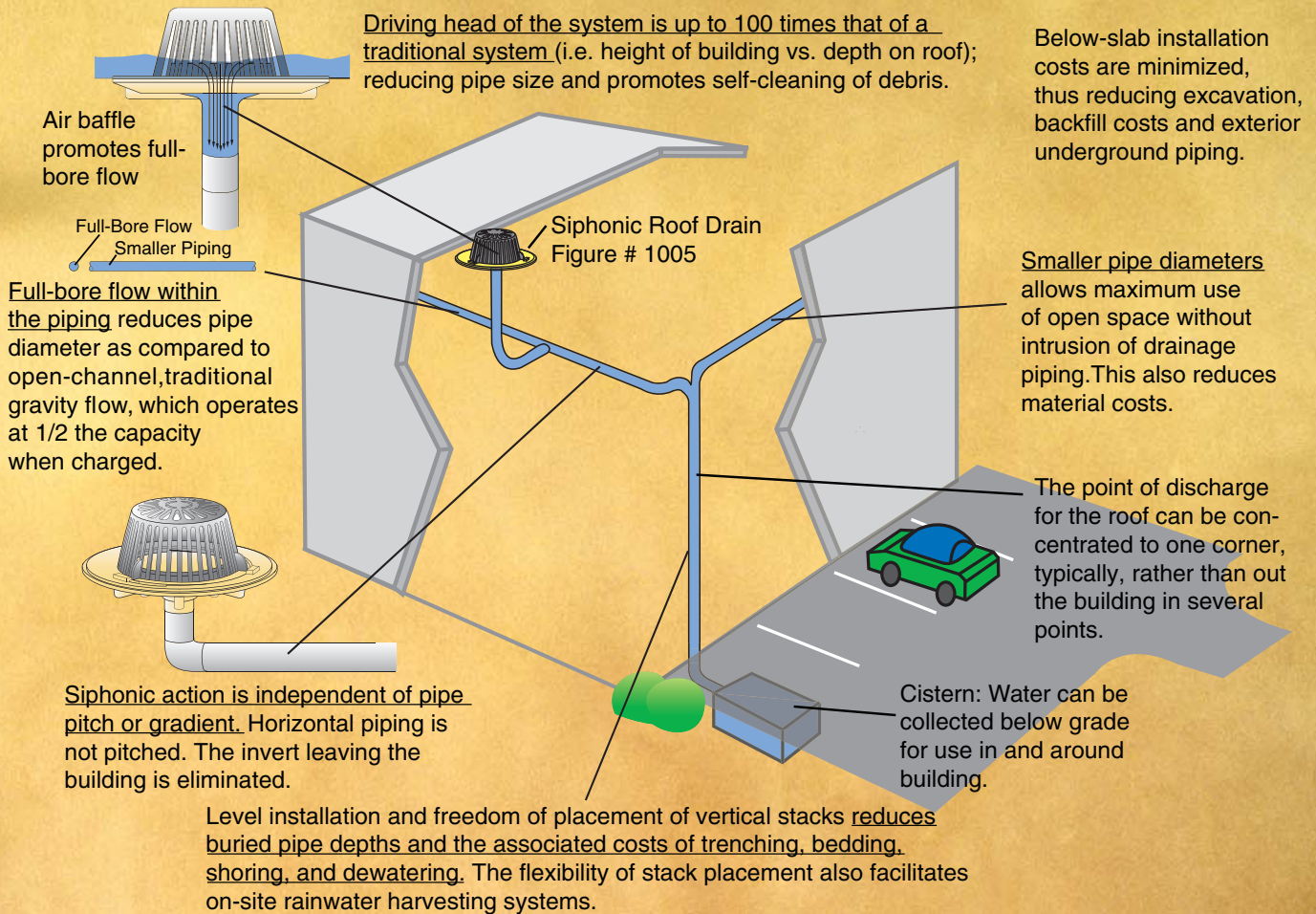
Siphonic action is independent of pipe pitch or gradient	No pitch is required, thus interior overhead space can be reduced; Building height may be reduced saving on construction costs
The point of rainwater discharge for the roof can be at a single corner	Below slab installation costs are reduced due to fewer points of discharge; Extensive, costly trenching for external storm drain piping may be reduced
Siphonic roof drainage systems with single discharge points reduce rainwater harvesting costs	Aids in achieving LEED's points to qualify for green building projects
The siphonic drain removes air from the water creating a full bore which results in smaller pipe diameters	Smaller and lighter pipe diameters and pipe hangers reduce material and labor costs
Stack and horizontal pipe locations are highly flexible	The lack of drainage piping pitch provides for maximum use of interior open space
High velocity full bore flows	Higher velocities promote self cleaning

- Rainwater Management Solution's "SiphoniTec®" software is available to aid in hydraulic calculations for ease of design
- Siphonic roof drainage continuing education course available at [www.PDHOnline.org](http://www.PDHOnline.org), course # M256
- UPC approval (IAPMO), File No. 5138
- ASME A112.6.9 "Siphonic Roof Drains" adopted ANSI on July 8, 2005
- ASPE - Technical Standard 45 eliminates the approval of alternative roof drainage systems
- To learn more about Siphonic Roof Drains and other resources, visit [www.jrsmith.com](http://www.jrsmith.com)

**\*A siphonic roof drainage system can achieve 40% to 50% savings over conventional roof drainage. The actual savings will depend on the specific roof size, rainfall amount and overall drainage layout.**



# The Many Benefits of Using The Jay R. Smith Mfg. Co.® Siphonic Roof Drain System



Contact your local representative

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**The level approach to roof drainage™**