

Helping contractors save money and enhance productivity

Jay R. Smith's Siphonic Roof Drain Solves Historic Building Drainage Dilemma

Refurbishing a historic building can pose unique dilemmas for contractors. In Pasadena, CA, a 100-year-old historic Disney building was in need of renovation, including a quick and viable roof drainage solution, but local ordinance required that the exterior not be changed and that all overflow drainage be piped into the city storm drainage system. The architect in charge of the renovation contacted the local **Jay R. Smith Mfg. Co.** representative for insight on using siphonic roof drains on the job.

Roof Drain Meets Architect's and City's Demands

The siphonic roof drain, figure #1005, by Jay R. Smith Mfg. Co. was selected because the overflow can be controlled to a specific point on the building. The original design had no overflows in place, so the siphonic drains offered the perfect solution to the problem. The siphonic action of the roof drains allow the piping system to be run horizontally. This piping design enabled the overflows to be evacuated on the side of the building, which satisfied both the architect and the city of Pasadena.

A siphonic roof drain by Jay R. Smith has the same features as a traditional

roof drain, including the drain body, flashing ring, dome strainer, and fastening hardware. The difference is an air baffle, which prevents air from entering the piping system during peak flows. This technology provides full-bore flow within engineered siphonic roof drain piping systems, making piping pitch unnecessary. Several drains can tie into a horizontal collector that is routed to a convenient point where it transitions into a vertical stack. This stack, once it reaches the ground, is piped to a vented man-hole, where water is discharged into the storm system.

Builders Realize Additional Benefits

Using the siphonic roof drainage system can save time and money:

- Smaller pipe diameters can be used, reducing material cost.
- Level pipe installations allow fewer vertical stacks, saving ground work and building costs.
- Driving head is greater, which further reduces pipe size and promotes self-cleaning.
- Vertical stack and horizontal pipe locations are highly flexible.
- Drain allows maximum use of open



Architects and the city of Pasadena found Jay R. Smith's siphonic roof drain ideal for refurbishing an historic Disney building because it enabled overflow drainage to be piped into the city storm drainage system, even though the original design had no overflows in place.

space without intrusion of drainage piping.

- Drain can be used as a retrofit, which helps to achieve LEED® credits for reuse of existing buildings.

Large roof construction projects, such as those for factories, warehouses, airports, convention centers, stadiums, and retailers, will particularly benefit from siphonic roof drainage.

For more information on Jay R. Smith Mfg. Co. products or to contact your local representative, visit the Virtual Yellow Pages website at www.jrsmith.com.