

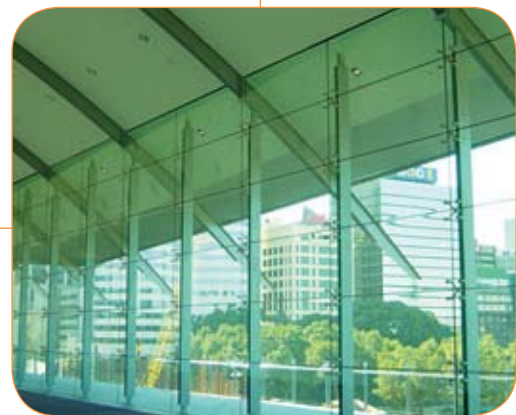
SS | SiphonicSolutions

design and contract

Siphonic Solutions is a next-generation design and construction company, specialising in siphonic roof drainage systems.

The siphonic roof drainage system is based on the ingenious gravity-induced vacuum principle, allowing a quick and efficient way of draining roofs comprising various shapes and gradients. A professional support package is provided to clients based on sound engineering principles. Australia's leading architectural, design and building companies depend on us to deliver integrated solutions, including:

- Design concepts
- Budget estimates
- Downpipe locations
- Flowrates
- Gutter designs
- Installation and coordination with other trades
- Certification





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THE SYSTEM, ITS OPERATION AND COMPONENTS

Comprising high quality stainless steel siphonic roof outlets, high density polyethylene (HDPE) pipes, fittings and a professional support package, the siphonic roof drainage system allows the complete drainage of a roof without the requirement of a slope in the pipework, thus saving valuable space, set-up time and money.

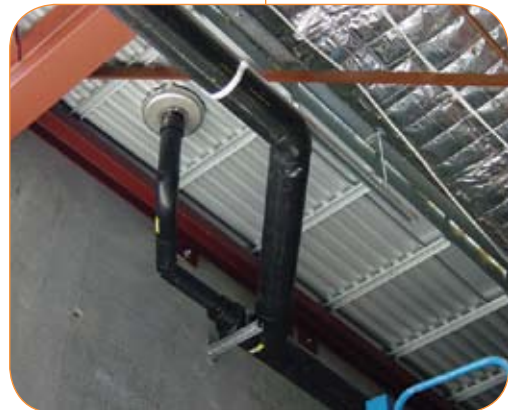
The siphonic roof drainage system is used on flat (concrete deck) roofs and any form of roof shape, which drains into a box gutter or eave gutter.

Some siphonic roof drainage applications include:

- Factories
- Warehouses
- Shopping centres
- Office buildings
- Apartment buildings
- Airports
- Sporting facilities
- Multi-storey carpark decks
- Renovations of existing drainage systems

The innovative component of the siphonic roof drainage system is the specially designed roof outlet which controls the pattern of discharge, preventing air from entering the pipework. By minimising the intake of air into the system, the water creates a siphoning effect, maximising the suction of the water into the outlet.

The discharge capacity can be designed between 1 and 100 litres per second (l/s) per roof outlet.



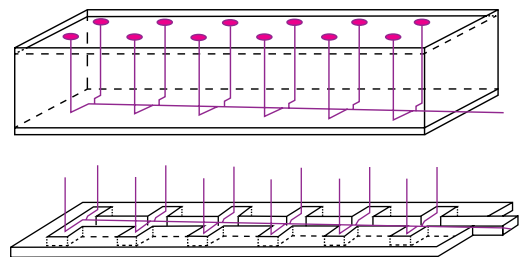
OUR SERVICE

Our provision of services include a tailor-made design and construction of the siphonic drainage system requirements, using our unique team of professionals. Alternatively, we are able to integrate our service with the hydraulic services consultants, architects and builders, blending both traditional and modern skill sets. This involves scalability of couplings, performance management and robustness with a sensible design and efficient building technologies, using the siphonic roof drainage system.

Siphonic Solutions (Australia) Pty Ltd is involved from the first stage of all its projects, enabling clients to be acquainted with the range of drainage options available. We offer various integrated solutions for the overall project, allowing our clients to make informed decisions based on sound engineering principles. Our installations are also lower in capital costs when compared to traditional drainage systems. The practical benefits of the siphonic of the siphonic roof drainage system can be demonstrated to potential clients using one of our completed projects, or a new project in preliminary planning stage. Our qualified engineers manage the design and installation of the complete siphonic roof drainage system, including design concepts, regular meetings with clients, tender specifications, installation and certification.

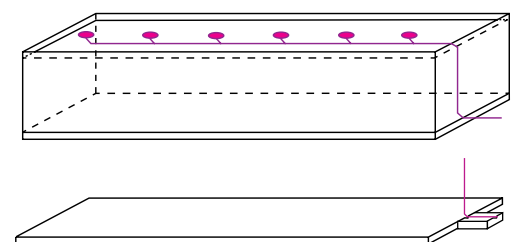


Conventional System



- sloped collecting lines
- numerous stack lines
- extensive groundwork

Geberit Pluvia® system



- horizontal collecting lines
- few stack lines
- minimal groundwork

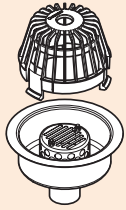


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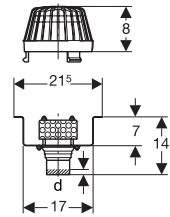
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SIPHONIC ROOF OUTLETS

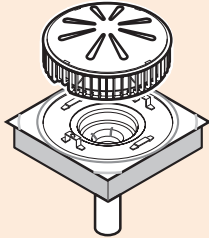
Series 5 d=Ø56mm



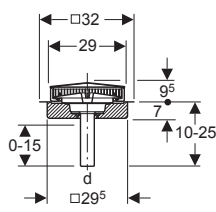
Capacity: 1-6 l/s



Series 7 d=Ø56mm



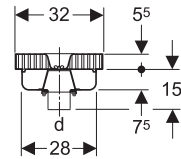
Capacity: 1-14 l/s



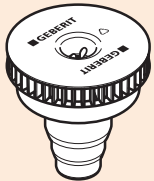
Series 7 d=Ø90mm



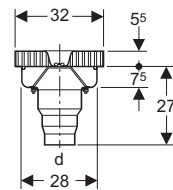
Capacity: 8-25 l/s



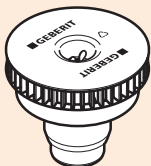
Series 7 d=Ø110mm



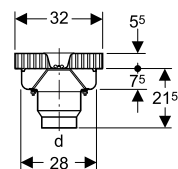
Capacity: 8-45 l/s



Series 7 d=Ø125mm



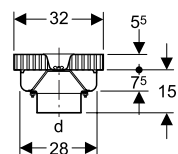
Capacity: 8-60 l/s



Series 7 d=Ø160mm



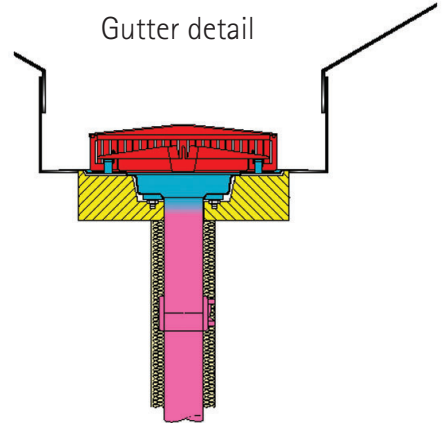
Capacity: 14-100 l/s



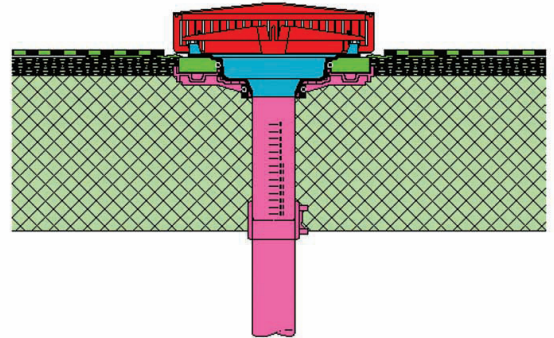
(All measurements in cms)

CONSTRUCTION DETAILS

Gutter detail



Concrete deck detail



Car park deck detail

