





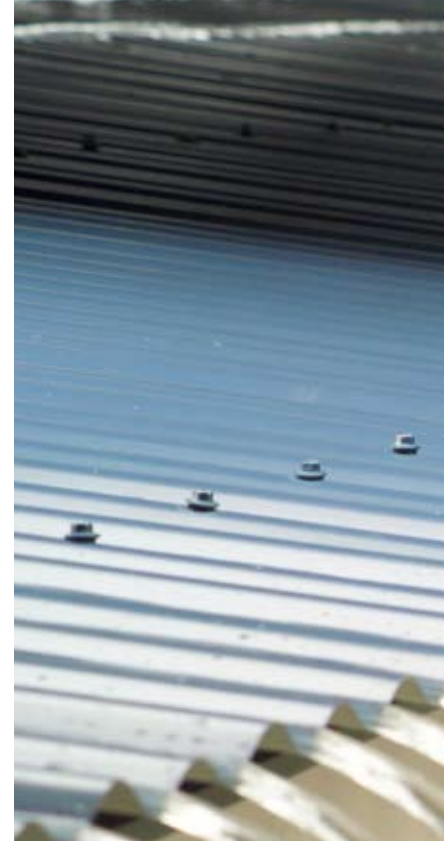
# Syfonic Roof Drainage





## Highly efficient, specialised, cost effective and architecturally harmonious roof drainage solutions

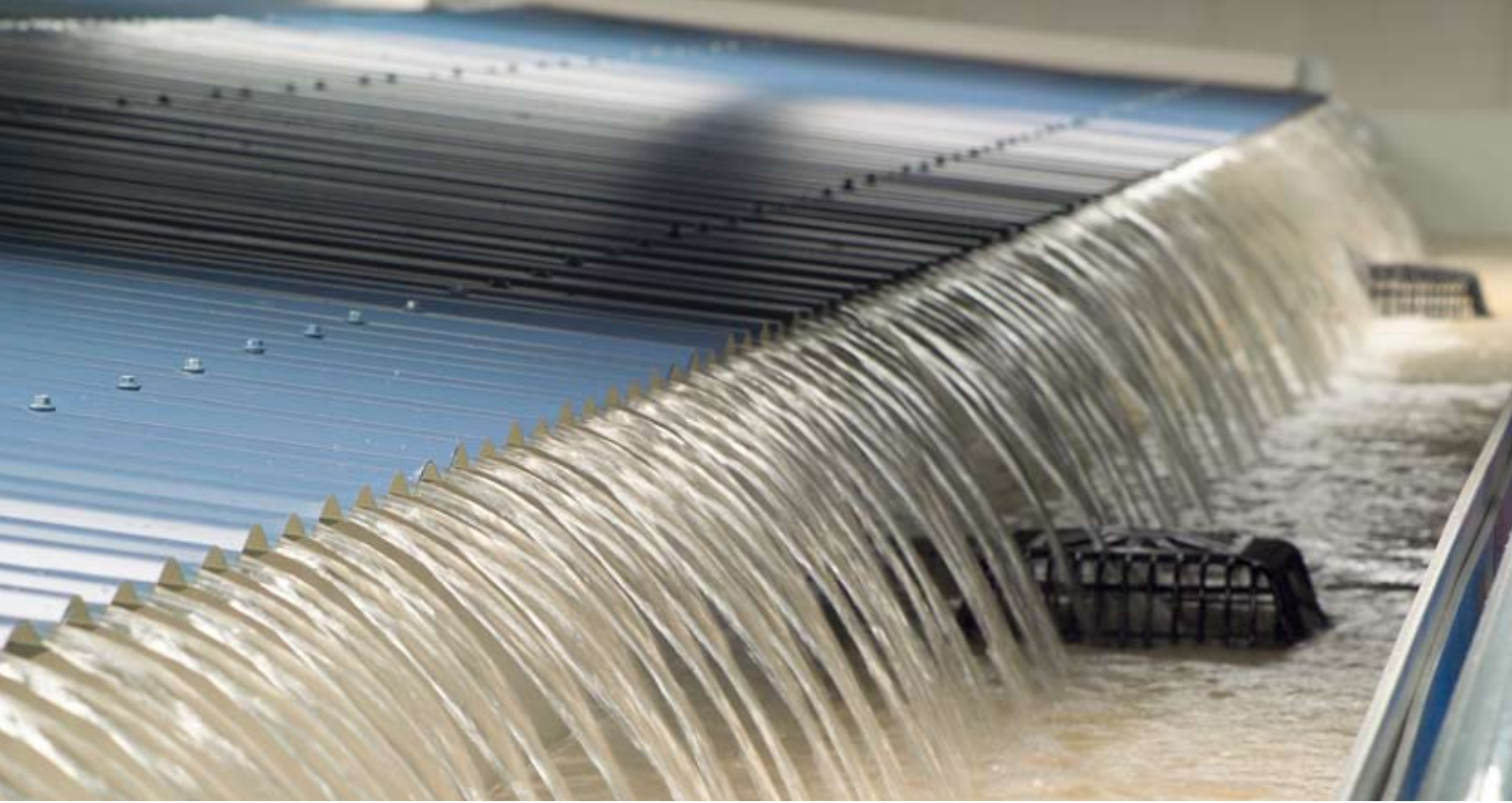
Syfon Systems are specialist roof drainage engineers with extensive experience in roof drainage, especially in high rainfall areas. Commencing business in 1992, and having worked extensively with European Syfonic and conventional systems, the company now employ 75 staff throughout Australia and Asia. With fully staffed offices in Melbourne - Australia, Brisbane - Australia & Kuala Lumpur - Malaysia, and a permanent construction teams across Australia & Asia, Syfon Systems are well positioned to complete a wide range of projects, simultaneously on time & on budget.



Syfon Systems provide architects, engineers and clients with a comprehensive service and a technologically advanced product range designed to meet specific needs. Syfon understands client's needs and with over 30 years experience in the construction industry, are well qualified to deliver the quality & service the company is recognised for across many markets.

In order to assist with the ever increasing need to conserve & reuse water, the company's services include the design, supply & installation of panel rainwater tanks.

Syfon Systems have an outstanding list of completed projects, many of which are among the most recognisable buildings in Australia & Asia. The company's unique design and uncompromising attention to detail has firmly established Syfon Systems as one of the world's leading syfonic roof drainage companies.



## Benefits

*Syfon Systems offers many benefits to the client;*

- A total turn key service for the design, manufacture, installation & full warranty
- Continuous innovation ensuring Syfon Systems solutions are at the forefront of the industry, including roof & gutter analysis, rainwater harvesting, and material product improvements
- The client can have total confidence as a single organisation has total responsibility for the reliability of the drainage system. This eliminates the problems associated with dealing with a wide range of suppliers and contractors to design, supply and install the system

## Products and Services

Syfon Systems engineers use the company's own sophisticated proprietary software to produce a comprehensive analysis of all project drainage requirements.

*Services include:*

- Computer analysis and design
- Complete roof drainage option analysis
- Gutter design sizing and expansion requirements
- Overflow requirements and design
- Piping sizing, layout and flow rate
- Full cost analysis
- Full turn key installation service
- Full testing warranty

## What is Syfonic Drainage?

Syfon Systems syfonic roof drainage system was designed and developed in Australia. Syfon Systems technology provides a simple, unique, high-rainfall roof drainage product specifically suited to the Australian, New Zealand and Asian climates.

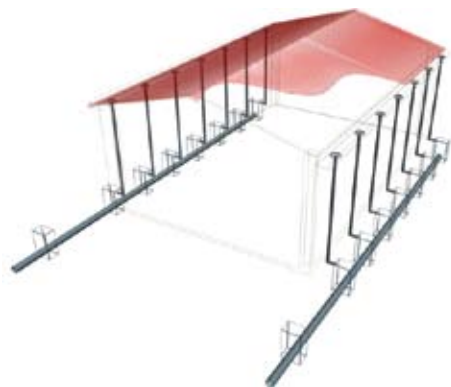
Unlike conventional systems, Syfon Systems significantly reduces the need for downpipes from projects. All rainwater is collected via the company's high rainfall syfonic gutter inlets and is reticulated at high level through a piping system that does not require grade, and is designed to run full (conventional pipes run at 1/3 or less). The result is a more effective and efficient system resulting in significantly reduced pipe dimensions, higher flow rates and less reliance on pipe slope, while in turn vastly reducing the need for underground drains.

Syfon Systems syfonic roof drainage system equates to lower capital costs, reduced construction time and architectural flexibility in building design that no other system can match.

**Syfon System**



**Conventional System**



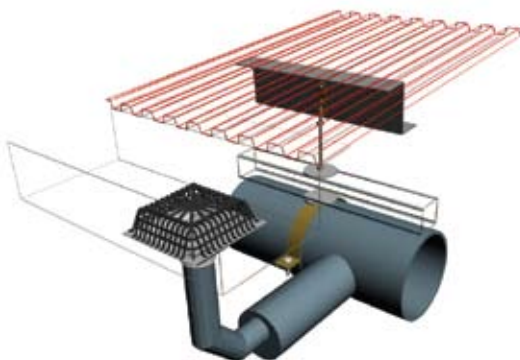


## Technology

The Syfon System is proprietary technology that was developed specifically for Australian, New Zealand and Asian conditions, in conjunction with the CSIRO and the University of Technology in Sydney. The Syfon System is fully approved by the CSIRO Building Products & Systems Appraisals (Technical Assessment 290). Syfon Systems are involved in the development of an Australian Standard for syphonic roof drainage.

*Syfon Systems manufacture, supply and install:*

- Prefabricated piping systems
- High rainfall Syfonic gutter inlets which:
  - Maximise efficiency
  - Enhance aesthetics
  - Significantly reduce need for underground drains
  - Create substantial reductions in upfront cost, time, capital requirements and lifecycle costs
  - Have environmental benefits, the system is able to reticulate storm water from roofs whilst separating contaminated water from car parks
- Gutter debris guards
- Unique Syfonic piping support system



## Test Facility

The Syfon Systems test facility is used to demonstrate the operation of the system and provides the opportunity to examine its effectiveness under extreme conditions. Pipes are sized according to the specific design parameters to demonstrate the system under particular design loads, providing clients with confidence that the design will operate in accordance with code requirements.

It is also possible to simulate different types of system failure and blockages, to determine the impact on gutters, overflow, and systems redundancy.

*Furthermore, it is possible to test for a range of purposes such as:*

- Different overflow configurations
- Raking Box gutters, and their impact on the system
- Varying gutter configurations as per architectural requirements that fall outside the normal parameters
- Acoustic levels of alternative piping materials



## Projects

*Syfon Systems has completed a large number of projects over the years, some of which are listed below.*

### **Australian and New Zealand Projects**

Southern Cross Station - Victoria, Australia

Federation Square - Victoria, Australia

Melbourne Cricket Ground - Victoria, Australia

Telstra Stadium, Docklands - Victoria, Australia

Melbourne Convention Centre - Victoria, Australia

Eureka Tower - Victoria, Australia

Synchrotron Monash University - Victoria, Australia

Stadium Australia - New South Wales, Australia

Sydney Cricket Ground - New South Wales, Australia

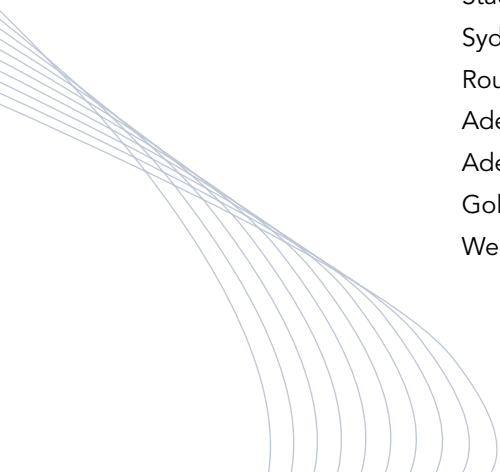
Rouse Hill Town Centre - New South Wales, Australia

Adelaide Convention Centre - South Australia, Australia

Adelaide International Airport - South Australia, Australia

Gold Coast Convention Centre - Queensland, Australia

Westpac Stadium - Wellington, New Zealand





## Malaysian and Asian Projects

Siltronic - Singapore

Hong Kong International Airport - Hong Kong

Port Moresby International Airport - Papua New Guinea

Kuala Lumpur International Airport - Kuala Lumpur, Malaysia

Sunway Pyramid - Kuala Lumpur, Malaysia

Kuala Lumpur Convention Centre - Kuala Lumpur, Malaysia

Traders Hotel (KLCH) - Kuala Lumpur, Malaysia

Prince Hospital - Kuala Lumpur, Malaysia

Bandar Utama Convention Centre - Bandar Utama, Malaysia

IKEA (Phase 1) - Mutiara Damansara, Malaysia

IKEA Mall (Phase 2) - Mutiara Damansara, Malaysia

Jaya Jusco - Johor Bharu, Malaysia

Putra Jaya Mosque - Putra Jaya, Malaysia

Putra Jaya Convention Centre - Putra Jaya, Malaysia

Proton City - Tanjim Malim, Malaysia

Proton Centre of Excellence - Shah Alam, Malaysia

UMW Toyota - Shah Alam, Malaysia

Amiri Hangar - Doha, Qatar



Sales Office:Te Deum Engineering