

Dear Readers,

We are pleased to present the first issue of Fast Flow newsletter for this year, which will serve as an additional communication channel between Fast Flow and our growing customer community. This newsletter will contain information of interest to our customers about the latest news and developments in Fast Flow across Asia.

In this issue, we feature our green building project in Singapore's Central Business District; CapitaGreen which was designed to achieve the Green Mark Platinum award followed by our latest commercial and mixed-use development project in Indonesia; the InterContinental Jakarta Pondok Indah.

You will also find our new and completed projects in the first quarter of 2016. These are a few of noteworthy projects undertaken by Fast Flow Singapore. We hope you enjoy this edition and will continue to read through future editions.

Happy reading!

Inside this issue...

- CapitaGreen
- InterContinental Jakarta Pondok Indah Hotel
- Our Solution: Fast Flow Siphonic System
- Project Highlights
- Fast Flow Products Selection
- Our Presence

CapitaGreen



In the heart of Singapore's Central Business District, on Market Street, a unique office tower makes an environmental statement. CapitaGreen is a 40-storey (242 metres) office building with more than half of the building façade covered with living green plants. The design is a composition of double-skin façade, with floor-to-ceiling glass curtain walls and extensive vertical greenery. The design concept of CapitaGreen is by Toyo Ito, winner of the 2013 Pritzker Architecture Prize, working together with the Singapore office of RSP Architects Planners & Engineers and Takenaka Corporation was its main contractor.

The design of the building emphasises sustainable development. Resource efficiency and conservation are applied by harnessing innovative water-saving techniques such as rainwater harvesting, maximized use of natural light, and the tropical façade design with low-e glass to reduce solar heat gain – features which add to the quality of the project.

Fast Flow's Siphonic System is installed in this building to drain a total catchment area of 6,200 sqm. A special design feature is the installation of Fast Flow's Primo50™ and ARTECO-R™ rainwater outlets on CapitaGreen's sky terraces on levels 5, 14 and 26.

The building utilises Fast Flow's Siphonic System to transport the rainwater from the 40th storey to the rainwater tank located at the 37th storey which is then used to irrigate the building's plants.

CapitaGreen is jointly developed by CapitaLand, CapitaLand Commercial Trust, and Mitsubishi Estate Asia. Its environmentally conscious design has earned it a Green Mark Platinum Award in 2012 and Universal Design Mark – GOLD^{PLUS} (Design) Award in 2013 from the Building and Construction Authority. The Council on Tall Buildings and Urban Habitats (CTBUH) has also named CapitaGreen the "Best Tall Building in Asia and Australasia" in June, while MIPIM Asia endorsed CapitaGreen with a Bronze award for Best Office and Business Development in December 2015.

The InterContinental Jakarta Pondok Indah



Fast Flow and its licensed distributor (Siphonic Flow Mandiri) secured the Five-Star InterContinental business hotel and convention centre in December 2015. Designed by DDG, the InterContinental features a stunning wave-and-curve shape that draws inspiration from Indonesia's rich culture and landscape. The hotel itself will have 325 rooms and 300 branded apartments, as well as a convention facility that can accommodate up to 3,000 people, roof terraces for outdoor functions, four levels of underground parking, and a helicopter pad.

Scheduled to open in 2016, the mixed-use development utilises Fast Flow's Siphonic system to drain a total roof area of 4,500 sqm (two towers and a ballroom) and convey the rainwater to the city drainage with only one stack of 125 diameter maximum size of rainwater downpipe (RWDP) for each tower. Fast Flow's Siphonic system provides flexibility in pipe locations by leveraging on small diameter pipe work. It also allows various outlets to combine into a single system and transport water through long distance without the need for gradient to achieve efficient use of ceiling headroom by freeing up extra valuable building space.

The InterContinental Jakarta Pondok Indah

Our Solution: Fast Flow Siphonic System

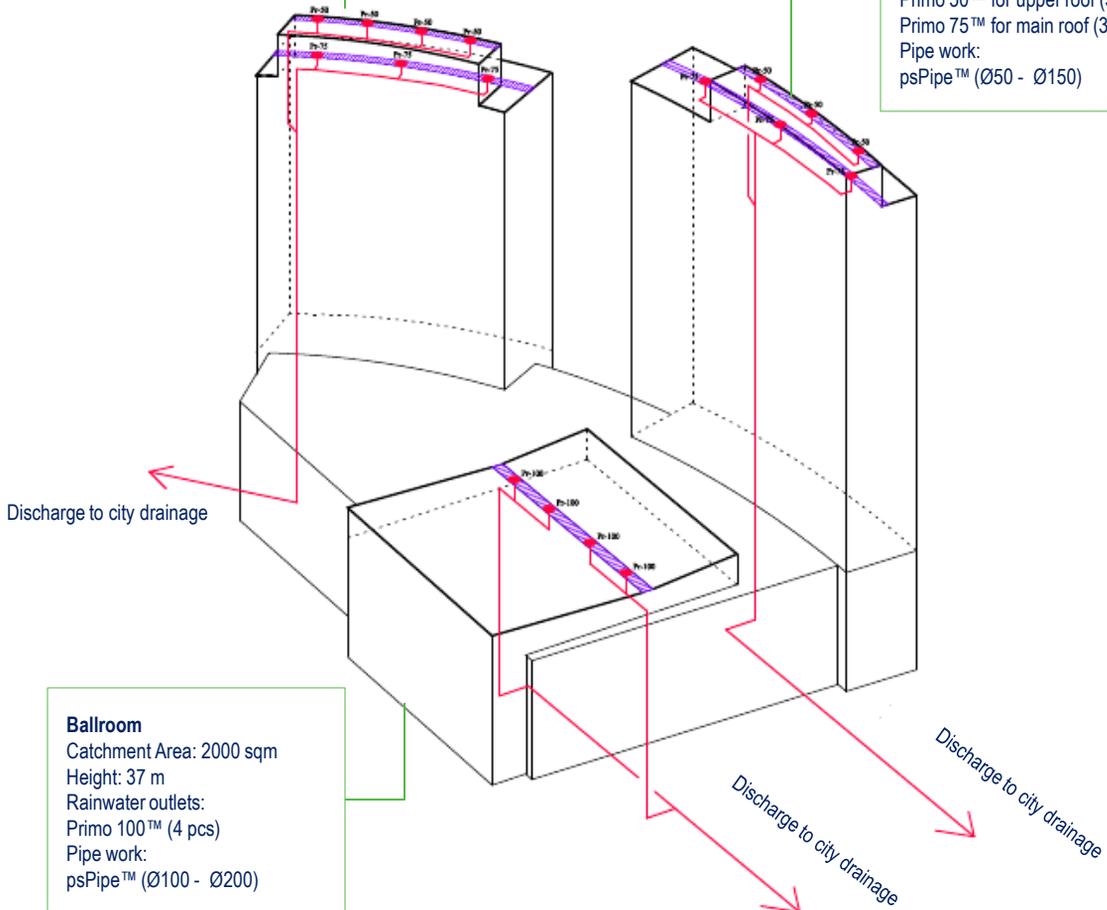
Every project we tackle is a testament to our belief that roof drainage is as much an art as it is a science. We strive to develop drainage systems that bring out the beauty of a building's design rather than work against it.

Tower 2

Catchment Area: 1,230 sqm
 Height: 89 m
 Rainwater outlets:
 Primo 50™ for upper roof (4 pcs)
 Primo 75™ for main roof (3 pcs)
 Pipe work:
 psPipe™ (Ø50 - Ø150)

Tower 1

Catchment Area: 1,260 sqm
 Height: 96.20 m
 Rainwater outlets:
 Primo 50™ for upper roof (3 pcs)
 Primo 75™ for main roof (3 pcs)
 Pipe work:
 psPipe™ (Ø50 - Ø150)



Fast Flow Group Q1/2016 Project Highlights

Singapore

Completed Projects



<http://sbr.com.sg>

Project title: Q Bay Residences
Catchment area: 7,960 square meters



<http://www.todayonline.com>

Project title: Yishun Community Hospital
Catchment area : 4,000 square meters



<http://www.iproperty.com.sg>

Project title: 56 Loyang Way
Catchment area: 9,540 square meters



<http://www.bestnewcondo.com>

Project title: Eight Riversuites
Catchment area : 4,100 square meters

New Projects



<http://parclife-sg.com>

Project Title: Parc Life Executive Condominium
Catchment area: 4,500 square meters



<http://treresidencecondo.com/>

Project Title: TRE Residences Condominium
Catchment area: 2,500 square meters

Fast Flow Products Selection

Primo™	Primo 75HD™	Piccolo™	Arteco™
			

Suitable for open to sky spaces



- A complete range of siphonic outlets ranging from 5 to 150 liter per second comes with specialised adaptors for installation on all type of roof and gutters.
- Fast Flow Primo™ series siphonic outlets are specially designed to minimise any form of blockages resulting from debris or fallen leaves collected on the rooftop.



- Primo Heavy Duty (HD) model is dedicated to areas with heavy traffic such as R.C. rooftop, plaza or car park.
- It does not require a sump to be able to install the outlet as what most car park outlets do, and this means faster and easier construction.
- Having stainless steel and high quality aluminium alloy as its main materials, this outlet is designed specifically to withstand vehicles up to 100kN to suit load test of Siphonic Outlet as per AS Specification Class C, 4.2.1.

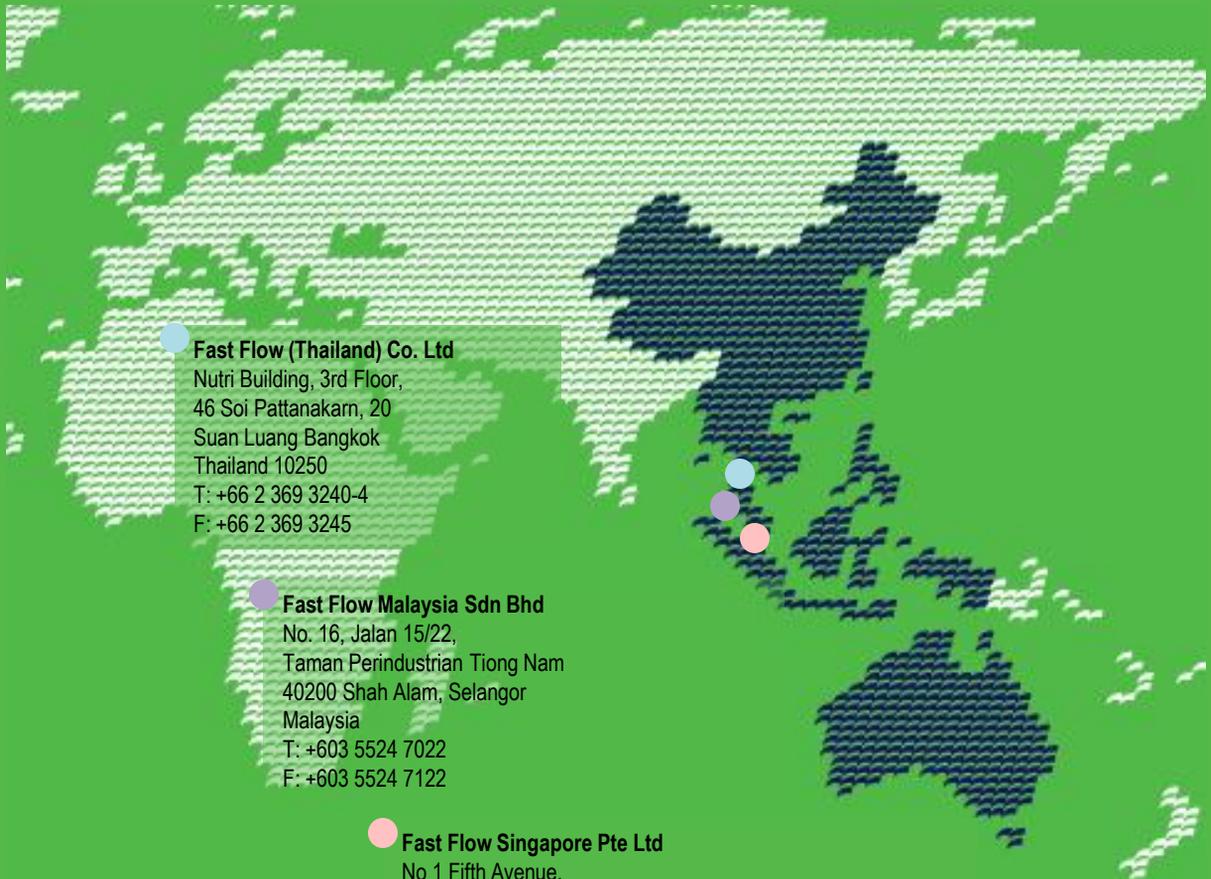


- Piccolo™ is specially designed to work with small gutters (200mm wide).
- Ideal for canopies, eaves gutter and small roof areas.



- A wide range of siphonic outlets designed to fit perfectly with the architectural finishing of terraces and balconies, combining the capacity of siphonic roof drainage system with aesthetics.





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