

## Fast Flow - Providing a Breakthrough in Drainage System



Formerly known as Funan DigitaLife Mall, Funan The IT Mall and once, Funan Centre, the property is now re-launched simply as Funan: an 887,000 sq ft integrated development comprising a retail component, two office blocks and a co-living serviced residence under The Ascott Limited with Woods Bagot and RSP as the architects and Woh Hup – Obayashi Joint Venture as the main contractor.

Fast Flow designed a complete rainwater management system for this project, providing a fully engineered solution to drain rainwater from roof area and balconies. Multiple siphonic outlets from different roofs are linked with zero gradient horizontal pipes coming down with a common stack which provide flexibility in pipe locations. Fast Flow's system also fully optimizes lateral pipe length without gradient to achieve efficient use of ceiling headroom by freeing up extra valuable building space.

Fast Flow Solution includes a total of 40 PRIMO™ outlets to drain the Open to Sky roof area and 56 psVent™\* to prevent backflow problem of rainwater while being drained in the Wind-Driven Rain Spaces, covering a total catchment area of 8,000 sqm.

*\*psVent™ is an anti-backflow junction, specially designed for terrace and balcony. Since its launch in 2009, the psVent™ is now widely accepted and the preferred choice for architects and interior designers to be used in their buildings.*

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## Definition of Wind-Driven Rain (WDR) Spaces

*'Spaces which have at least one external façade which is unprotected from wind-driven rain making them susceptible to an ingress of water into that space.'*



## What are Wind-Driven Rain Spaces?





## Fast Flow Provides the Highest Grade Rainwater Management to The Woodleigh Residences



The Woodleigh Residences, jointly developed by Singapore Press Holdings (SPH) and Kajima Development, will rise in Bidadari Town Centre. It is positioned as a premium integrated development which leverages Japanese design. This is the first private mixed development in the Bidadari area.

The project is divided into two phases. The first phase will be the development of the 28,000 sqm retail area and the second phase will be the residential development which offers approximately 680 residential units.

The development utilizes Fast Flow Siphonic and Pressurised Systems to drain a total catchment area of 12,500 sqm. It will be well equipped with Fast Flow PRIMO™ rainwater outlets; with roof draining capacity ranging from 20 l/s to 150 l/s, the psPipe™ and psFittings™ which are specifically developed for use in the drainage of rainwater using a Siphonic System or a Pressurised System, and the psVent™; a smart drainage device in the balcony that ensures water is drained properly without backflow.

Fast Flow vision is to design and produce rainwater management solutions that are in coherence with building architecture. A reflection of functional and intelligent planning, our customized solutions match the building's unique identities. The flexibility of Fast Flow's rainwater outlets position and multiple linking of systems have allowed Fast Flow to come out with a better design at low risk project management.

## Fast Flow Group Newly Secured Projects Q3/2019

### Singapore

- Piermont Grand EC @ Sumang Walk
- Haus on Handy
- Avenue South Residence @ Silat Ave
- Pasir Ris Nursing Home
- SIN12 Data Centre - Digital Realty
- Parc Esta at Sim Avenue

### Malaysia

- Axon Bukit Bintang
- PP1AM BKT JALIL
- Miri City Hall
- Hospital KL (Extension)
- Miri City Hall
- Vertu Resort

### Thailand

- Continental 2 Wheel
- Panya Residence
- Yakult
- BSTMT (Bridgestone Rayong)
- Nestle Navanakorn

### Australia

- Somerset Street Private Hospital (NSW)
- Marrickville Metro
- Koko Apartments



Project name: Piermont Grand EC @ Sumang Walk  
Country: Singapore  
Catchment area: 6,660 sqm



Project name: Axon Bukit Bintang  
Country: Malaysia  
Catchment area: 3,600 sqm



Project name: Somerset Street Private Hospital (NSW)  
Country: Australia  
Catchment area: 1,865 sqm



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 South China Morning Post

Country Reports

## Fast Flow elevates the future of drainage in a high-rise world

The group has proved its market edge through installation of drainage solutions in structures such as Singapore's Changi Airport and the National Stadium in China

Topic | Singapore National Day Report August 2019

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Contributor

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Colin Thoms, CEO

After proving its competitive strength by providing drainage solutions for more than 70 airports and multiple landmarks worldwide, Fast Flow is taking the industry to new heights as it responds to the world's need for drainage solutions in high-rise buildings.

Established in 1996, Fast Flow proved its market edge through the installation of drainage solutions in some of the world's most distinct structures such as the Changi Airport, Esplanade and Marina Bay Sands in Singapore, and the Bird's Nest or National Stadium in China.

With Asia's fast-paced urbanisation, the company aims to provide sustainable drainage solutions for the region's increasing number of high-rise buildings.

Its pioneering innovation, the Fast Flow Pressurised System, drains rainwater from wind-driven rain spaces such as balconies, sky bridges, multi-storey car parks, lobbies, corridors, canopies and mechanical rooms. For open-to-sky areas such as the main roof, Fast Flow's Siphonic System operates on the concept of full-bore flow. Both systems use smaller pipes compared to conventional gravity solutions, ensuring drainage management in the most ecological manner while optimising space usage in buildings.

A testament to its innovation, the company has digitised its processes through its proprietary Fast Flow Solutions Software. The digital analysis tool integrates hydraulic principles in pipe routing designs. It also enables Fast Flow to scale up operations, as it allows for drainage analysis anywhere in the world, especially outside Asia.

"Because we have the tools that we've digitised and made available, we can expand and work with big clients," says CEO Colin Thoms.

After setting up a new office in Australia, a strategic alliance in Japan, a joint venture in India and a licensed distributor in Indonesia, the company is expanding throughout the region in the next five years. Fast Flow is open to partnerships in Taiwan, Vietnam, Bangladesh, Myanmar and Hong Kong, and with strategic developers in the Philippines.

"Our kind of partners are people who have the philosophy of meeting high quality standards while adopting environmental participation methodologies," Thoms says.

Source URL: <https://scmp.com/country-reports/country-reports/topics/singapore-national-day-report-august-2019/article/3020967>



## International Greentech & Eco Products Exhibition & Conference Malaysia

Fast Flow is pleased to announce that we will exhibit at Greentech & Eco Products Exhibition & Conference Malaysia (IGEM) 2019.

IGEM is a not to be missed event dedicated to showcase of alternative energy options for future cities, eco-infrastructure materials and fixtures, energy efficient and electric vehicles, and innovations that will optimize natural resources and minimize residual impact in urban landscapes.

This event will also feature insightful discussions and networking sessions with international speakers and thought leaders on the future of developing sustainable urban areas.

The 10<sup>th</sup> IGEM will be held at Kuala Lumpur Convention Centre from 9<sup>th</sup> to 11<sup>th</sup> October 2019. Fast Flow Malaysia team will be located within the **MyHIJAU** Pavilion at Hall 5.

For more information and registration, please visit <https://www.igem.my/>





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