

## *A Note From the CEO*



As 2021 draws to a close, Fast Flow Group would like to whole-heartedly thank all of our customers for their unwavering support in this difficult year.

Together we have shown that despite the enormity of the challenges facing us as a part of the construction sector, we are resilient and will remain so. Together, we will continue to grow our business, serve our customers and employees with renewed purpose and clear focus for future success for many years to come.

I would like to use this opportunity to wish you and your families a Blessed Christmas and a prosperous New Year. May these days be filled with joy, peace and hope for the New Year.

Colin Thoms  
Chief Executive Officer

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## Design Freedom with Fast Flow Siphonic System



Image Source: [newpropertylaunch.my](http://newpropertylaunch.my) and GBI

Fast Flow Malaysia has been appointed as a rainwater management solution provider for the Warisan Merdeka Mall, working together with GDP Architect Sdn Bhd. The project has been developed by Permodalan Nasional Berhad (PNB).

Warisan Merdeka Mall is a seven-storey glass domed shopping mall currently under construction located in Kuala Lumpur. It is a 1.4-million-square-foot (0.13-million-square-metre) mall situated at the foot of the Merdeka 118 tower. Strong project management capabilities and high performance of Fast Flow Siphonic System were among the main criteria why Fast Flow was chosen. The 7 floors will be served by 56 Artec<sup>™</sup> rainwater outlet and a total of 70 Primo<sup>™</sup> rainwater outlet of several types.

Fast Flow knowhow ensures that varying needs of the rainwater management system in the building as well as the expectation of high-class design will be met.

### About Primo<sup>™</sup>

Fast Flow Primo<sup>™</sup> range of outlets are Fast Flow's premier and most comprehensive range. The Primo<sup>™</sup> range works on all types of roof and gutters. With 4 outlets in the range each with its own unique capability, capacity and project suitability, there is a Primo<sup>™</sup> outlet for all types of buildings. All Primo<sup>™</sup> outlets consist of a stainless steel base plate and a cast aluminium alloy (ceramic coated) air baffle. Additional to this, installation kits are available for either metal gutter installation (cast aluminium counter flange, EPDM seal and stainless steel nuts and bolts) or concrete (R.C.) roof areas and car parks (stainless steel upturned clamping ring and stainless steel nuts). The drainage capacity for the Primo<sup>™</sup> series ranges from 20 l/s to 150 l/s.

## Delivering Rainwater Management System for Whizdom The Forestias



Image Source: [www.mqdc.com](http://www.mqdc.com) and [www.kobkid.com](http://www.kobkid.com)

Fast Flow proudly presents Whizdom The Forestias as one of its huge project achievements in 2021. Designed by MQDC, Whizdom The Forestias is a project built to last. According to MQDC, the project was designed based on the public's preference for wanting to live around green spaces and nature.

Scheduled to open in 2025, the project utilizes Fast Flow Siphonic system and Fast Flow Pressurised system to drain a total roof area of 11,767 sqm. The project consists of a lot of green areas with a very complex and limited rainwater pipe installation. 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.

All Fast Flow solutions are designed based on well established hydraulic principles using FastFlowCALC© software (validated by TÜV SÜD).

### Fast Flow Pressurised System - an engineered solution

- The Pressurised System has been draining Wind-Driven Rain Spaces since 2007.
- The Pressurised System was the result of intensive Research and Development with final testing and **VALIDATION by TÜV** in 2007.
- Technology Patent was applied for in 2007 and the first Patent was granted in 2009 in Singapore.
- It is the only **ENGINEERED** system in the world for **Wind-Driven Rain** spaces.



## Fast Flow Group Project Highlights Q4/2021



Project name: Kronos office building  
Country: Thailand  
Catchment area: 1,779.84 sqm



Project name: O-NES Tower  
Country: Thailand  
Catchment area: 4,064 sqm



Project name: Extension Central Rama2  
Country: Thailand  
Catchment area: 9,800 sqm



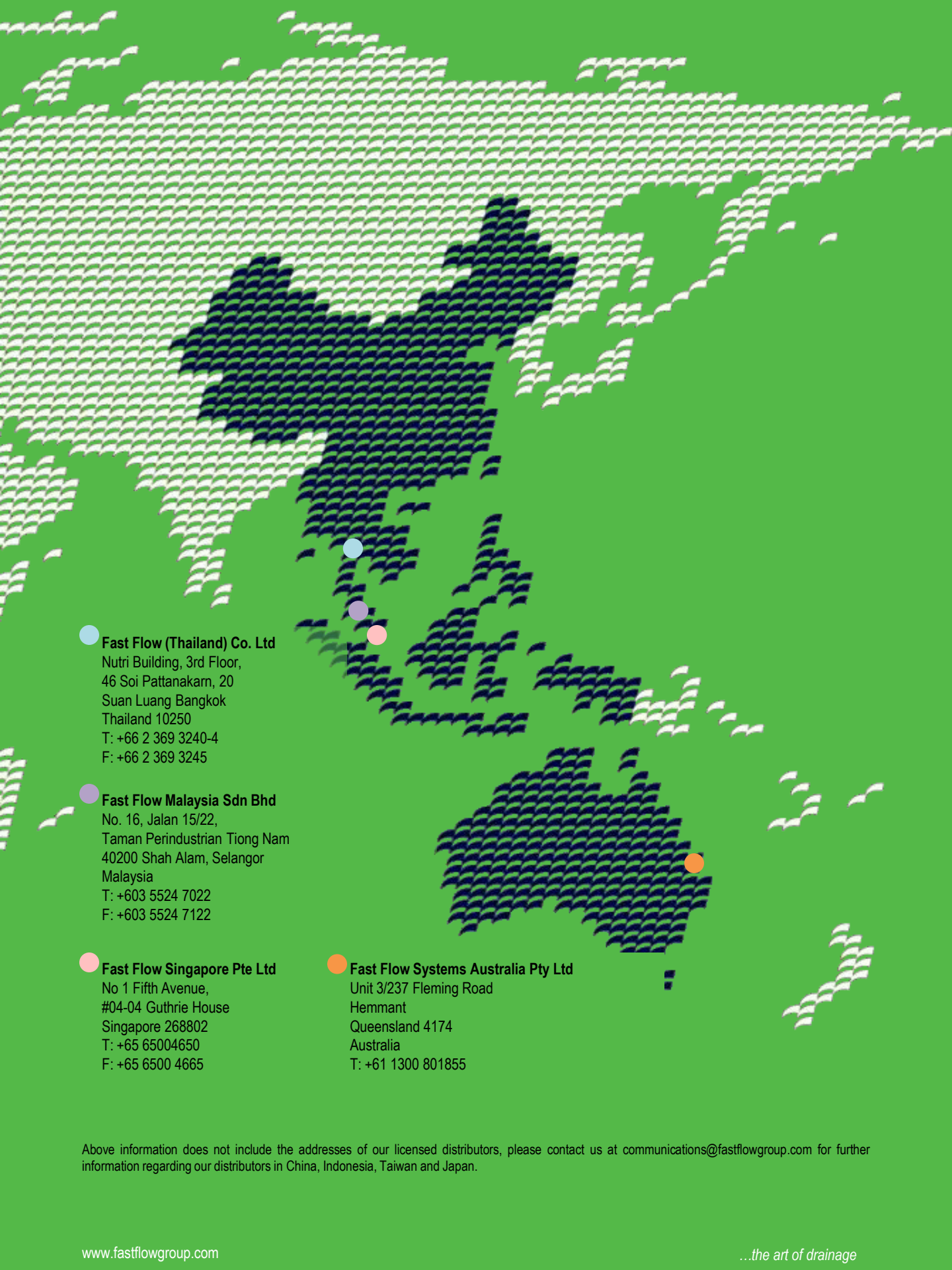
Project name: Pavilion Embassy Lot 5  
Country: Malaysia  
Catchment area: 7,500 sqm



Project name: KLCC Lot 91  
Country: Malaysia  
Catchment area: 6,500 sqm



Project name: Parc 3  
Country: Malaysia  
Catchment area: 1,690 sqm



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