Chongqing Airport: Terminal 3 Development

Colin Thoms, Fast Flow CEO (in the middle) on his visit to Chongqing, China early this year.

With the help of its project partner in China (Archwing Architecture and Technology Development Co.,ltd), Fast Flow secured the Extension Project of Chongqing Airport Phase IV (Terminal 3 Development) in September 2013.

The design of this airport project required a siphonic system to achieve a recurrence interval of 100 years in Chongqing. Fast Flow was brought in to fully design, supply and install the siphonic system in this 210,000 sqm roof area project. During installation on site, the client prohibited cutting and welding of the steel structure to install the siphonic drainage stainless steel pipes within. Fast Flow was able to surmount this challenge by inserting the stainless steel pipes within each section of steel structural columns (temporarily secured by lugs with 50cm protrusion for subsequent jointing) so that the steel columns were then constructed with siphonic pipes within.

These stainless steel pipes were then jointed by welding, before the steel column sections were jointed. Our ability to customise installation methods to meet challenges in delivering the siphonic design is our solution to the client. The project development of Chongqing Airport Terminal 3 started in November 2013. It is expected to be completed and put into operation in 2015.

Chongqing T3 Development, Artist's Impressions
Image source: Baidu

Fast Flow started to work on its DSM (Design, Supply Material) works for Chongqing Terminal 1 project in 2002 which was successfully completed in 2004. Continued with Chongqing Airport Terminal 2 in 2008 and completed in 2010.

Inside This Issue

The Asia-Pacific Stevie Awards

Yap Kern Ling, Fast Flow Group Sales Director received their Bronze Stevie® Award during the Gala Banquet on 30th May in Seoul, South Korea.

In recognition to its product innovation, system integration and design technology, Fast Flow Singapore won a Bronze Stevie® Award in the Technology Company of the Year category in the first annual Asia-Pacific Stevie Awards.

The Technology Company of the Year category recognizes the achievements made since 1st July 2012 of technology-industry companies operating in the 22 nations of the Asia-Pacific Region. More than 300 nominations from organizations across the Asia-Pacific region were considered this year in 18 categories including Customer Service Leader of the Year, Exporter of the Year, Fastest-Growing Company of the Year, and Woman of the Year, among others.

About the Stevie® Awards

Stevie Awards are conferred in five programs: the Asia-Pacific Stevie Awards, The International Business Awards, The American Business Awards, the Stevie Awards for Women in Business, and the Stevie Awards for Sales & Customer Service. A sixth program, the German Stevie Awards, will open later this year. Honoring organizations of all types and sizes and the people behind them, the Stevies recognise outstanding performances in the workplace worldwide. Learn more about the Stevie Awards at www.StevieAwards.com.

Michael Gallagher (President, The Stevie Awards) and Yap Kern Ling.
Pictures source: http://asia.stevieawards.com/stevie-winners

Fast Flow Group Q2/2014 Project Highlights

Thailand

Project title: Multipurpose Building, Rangsit University
Roof area: 9,913 square meters

Project title: Music Pavilion, Rangsit University
Roof area: 5,849 square meters

Project title: Thai Namthip (Coca Cola)
Roof area: 43,000 square meters
Project type: Addition and Alteration (A&A) Works

Project title: The Crystal Ratchapruek
Roof area: 4,639 square meters

Singapore

Project Title : CT Hub 2
Roof Area : 19,655 square meters

Project Title: Spottiswoode Suites
Roof Area: 1,530 square meters

Malaysia

Project title: Paralimpik Stadium
Roof area: 11,230 square meters

Project title: UTAR Kampar Perak
Roof area: 16,000 square meters (Grand Hall & Faculty Blocks)

Project Title : IOI City Mall
Roof Area : 59,000 square meters

Project Title : KLIA2
Roof Area : 112,000 square meters

Project Title : Setia City Mall
Roof Area : 51,000 square meters

Indonesia

Project Title: Kamadjaja Logistic Cibitung
Roof Area: 32,000 square meters

Project Title: Ranai Natuna Airport
Roof Area: 3,500 square meters

The Art of Drainage in Betawi Cultural Village

Fast Flow recently completed the installation of its Siphonic System for the first phase of a cultural heritage conservation centre (Museum Sejarah dan Purbakala) in South Jakarta, Indonesia.

Sited in Jakarta, Fast Flow's licensed distributor, Siphonic Flow Mandiri; helped to secure this project by submitting the conceptual drawings, proposal and having progressive meetings with the architect from June 2012 to December 2013.

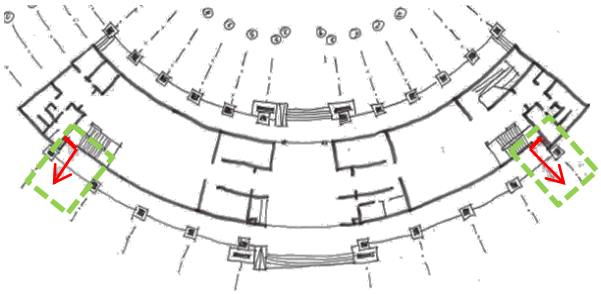
The project requires only 4 Fast Flow's rainwater outlets (PRIMO 75™) and 2 stacks of 100mm diameter downpipe to drain a total roof area of 1,076.88 sqm. This project once again showcases how Fast Flow's siphonic system can achieve high capacity with controlled water depth in gutter or roof top when fully engineered by utilising small pipe diameter and less pipe compare to the conventional gravity rainwater system.

Siphonic systems operate passively, in that they are primed solely by an increasing water depth in the gutter. There are no pumps or other electric systems. Once primed, the pipes within the system discharge full bore.

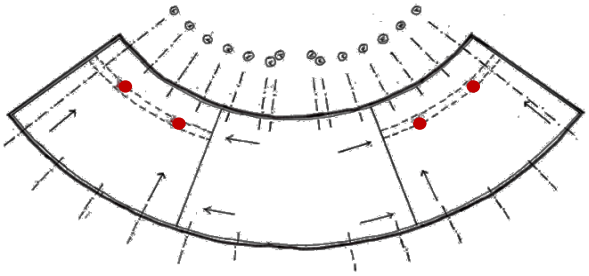
Siphonic systems require minimal vertical pipework, most of it is horizontal and so can be incorporated in the space just below the roof surface. Horizontal collector pipes bring together the rainwater at one or two strategically placed down pipes where the runoff is then conveyed to the discharged point or harvested into storage tanks.

Betawi Cultural Village Development - Phase I: Museum Sejarah dan Purbakala (Ancient History Museum).
Image Source: PT Centra Pendawa Nusantara

Museum Sejarah dan Purbakala's Roof Plan



Downpipe area installation



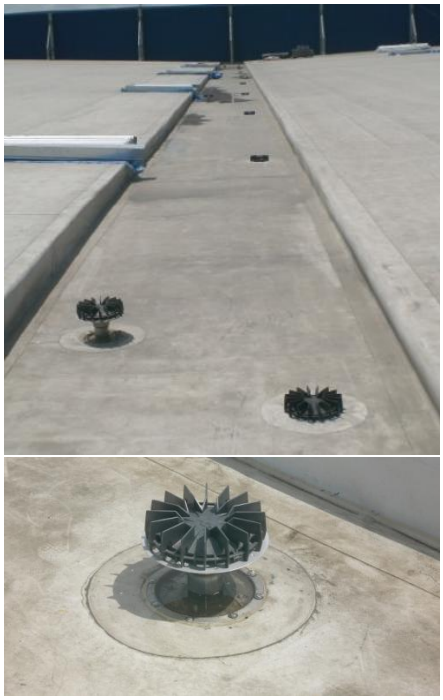
PRIMO 75™

Fast Flow's Overflow System

The Fast Flow's overflow system is an independent backup system that caters for unexpected rainfall, overflow or blockage issue. Fast Flow's overflow outlets are secondary outlets that work in tandem with primary outlets to prevent an overflow or spillage of rainwater out the gutter.

The installation of the overflow system is used based on the sensitivity of the building usage (plants, airports, hospitals) and design (roof design, gutter design). The water depth in gutter or roof top may surcharge due to the unexpected rainfall or blockage issue. This surcharge has the potential to cause internal damage to buildings. For this reason, having an overflow system installed in the building would be another option to avoid the internal damage.

The application of the overflow system has been quite common in Asia. Fast Flow has installed quite a number of its overflow systems in Singapore, China and Thailand. Some of the projects are Changi Airport, Singapore University of Technology and Design (SUTD), Novena Hospital, Hubei Tobacco Wuhan Cigarette Factory and IKEA Mega Bangna.



Fast Flow's overflow system installed in IKEA Mega Bangna, Thailand which was a good reference due to the constraint of valley gutter.

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