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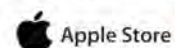
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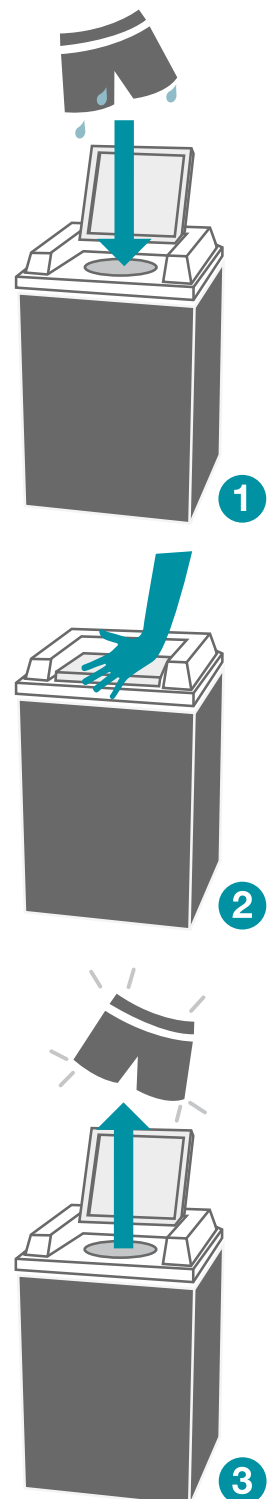


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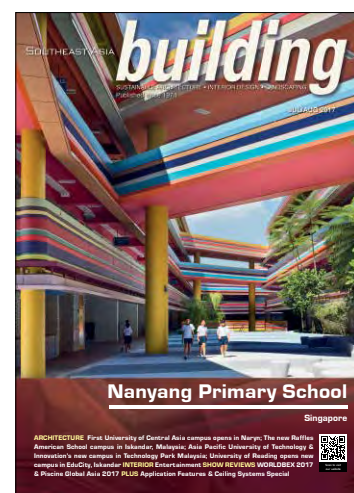
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**On the Cover:** Nanyang Primary School Extension in Singapore. Photographer: © John Gollings

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Dear readers, welcome to the July/August issue of *Southeast Asia Building*. By the time you receive this copy, we will be halfway through the year already!

In this issue, we look at the building design of education facilities in Asia. Schools and universities today play a greater role than simply provide learning. They need to design spaces where students can learn and interact more effectively and also feel safe and secured.

The interior design section explores the theme of entertainment. These days, entertainment venues have to create the right mood for its patrons to keep them excited and engaged and also to create a more social experience.

Finally, we have put together the show reviews of WORLDBEX 2017 and Piscine Global Asia 2017, which took place in Philippines and Singapore respectively.

Plus, we have a special product feature on ceiling systems where we have invited industry players to share with us the factors on choosing the right ceiling system for a project and the emerging trends in ceiling design.

Enjoy this issue and if you have any feedback, send me your comments at seab@tradelinkmedia.com.sg.

*Amita Natveelal*

## NEXT ISSUE THEMES

- Architecture – Sustainable Designs
- Interior – Retail
- Landscaping – Playground Equipment (Wet)

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## Nakheel and Minor Hotels sign management agreement for new AVANI hotel in Dubai

**Dubai, UAE** – Dubai master developer Nakheel and Thailand's Minor Hotels have signed a management agreement for a new 372-room hotel to be constructed at Ibn Battuta Mall.

Under the agreement, signed in Bangkok by Nakheel Chairman Ali Rashid Lootah and William E. Heinecke, Founder, Chairman and CEO of Minor International PCL, the hotel will be managed under the vibrant AVANI Hotels & Resorts brand, which offers guests relaxed comfort and contemporary style in city and resort destinations.

The 18-storey hotel – for which a construction contract will be awarded in February this year – is the second Nakheel hotel at Ibn Battuta and one of 16 in the developer's hospitality project portfolio. Adjacent to the recently-opened Ibn Battuta Metro Link, which is directly connected to the mall, the hotel will feature a pool, spa, gym, all day dining restaurant, coffee shop and parking.

Minor Hotels' portfolio currently comprises more than 20,000 rooms across 156 hotels, resorts and serviced suites in 24 countries under the Anantara, AVANI, PER AQUUM, Oaks, Tivoli, Elewana, Four Seasons, Marriott, St Regis, Radisson Blu and Minor International brands.

Nakheel Chairman Ali Rashid Lootah said: "Today marks yet another key milestone in our commitment to enhancing and diversifying Dubai's hotel offering by bringing new, reputable international hospitality brands to the emirate in line with the Government's vision. We are delighted to welcome Minor and the AVANI brand to Ibn Battuta Mall, which, with over 20 million visitors a year, is one of Dubai's leading tourist destinations."

William E. Heinecke commented: "We are very pleased to be partnering with Nakheel for the new AVANI hotel at Ibn Battuta Mall in Dubai. Having launched our upscale AVANI brand in the region last year, we are delighted to continue the brand's expansion in the UAE with this new hotel and we are confident that the brand will prove successful in this key market."



Photo: © Nakheel

## Malaysian Pension Fund buys Kuala Lumpur Menara AIA Cap Square

**Kuala Lumpur, Malaysia** – Malaysia's second largest pension fund Kumpulan Wang Persaraan (KWAP) has bought Kuala Lumpur's Menara AIA Cap Square from Germany's Union Investment Real Estate GmbH (UIRE). JLL Malaysia advised UIRE on the deal, which is the largest office building sale in Malaysia in 2016.

The 41-storey Grade A office building comprises 601,796 square feet of net lettable space. Current tenants include insurance and financial companies such as AIA and Citibank. "We're delighted with this result for both the buyer and the seller," said YY Lau, Managing Director, JLL Malaysia.

"This is a high profile property in a desirable location with an enviable occupancy rate and top quality tenants. With this purchase, KWAP is demonstrating its confidence in the Kuala Lumpur office market and we expect there will be increased interest in other Grade A office properties as a result, from both domestic and international investors," she added.

Earlier this year, KWAP sold its 18-storey office building, 88 Wood Street in the City of London, for US\$345 million, which it bought in 2013 for US\$275 million. Since then, the fund has been looking for investment opportunities in Malaysia and particularly in the capital.

Menara AIA Cap Square will be the second property KWAP owns in Kuala Lumpur, having purchased the 39-storey office block Integra Tower for RM1.06 billion (US\$315 million) in April 2015.

"This sale exemplifies that investors believe in Kuala Lumpur's strong fundamentals in the short and medium term as Malaysia's prime office investment location and that it remains competitive on a regional basis for attractive rental growth and returns," said Nick Charlton, Associate Director, JLL Malaysia.



Menara AIA Cap Square. Photo: © JLL

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## Emaar Hospitality Group unveils 'Address Boulevard,' a brand-new city lifestyle resort in the heart of Downtown Dubai

**Dubai, UAE** – Address Hotels + Resorts, the premium luxury hotel brand of Emaar Hospitality Group, unveiled its new city lifestyle resort, Address Boulevard. It adds to Emaar Hospitality Group's impressive and growing portfolio of luxury hospitality venues that have redefined the hotel industry and set new benchmarks in service standards.

Address Boulevard has 196 spacious rooms including 116 spacious Deluxe Rooms, 44 Deluxe Club Rooms, 28 One-Bedroom Suites, seven Two-Bedroom Suites and a luxurious Presidential Suite offering spectacular views of The Dubai Fountain and Burj Khalifa. In addition, there are 532 serviced apartments including duplexes and two penthouses, with short-term guests at the residences also guaranteed access to the hotel's facilities.

Chris Newman, Chief Operating Officer of Emaar Hospitality Group, said: "Address Boulevard is another statement on the ambition of Emaar Hospitality Group to set new industry standards. A celebration of the hospitality excellence that we have brought to Dubai, it is uniquely positioned as a city lifestyle resort – which integrates all the romantic charm of a resort with the convenience, amenities and appeal of a city hotel. Address Boulevard is exceptional in all its facets – from the architecture to the interiors, the unobstructed views of iconic attractions, and our uncompromising approach to superior guest service."

With its inspiring art-deco architecture, design and décor, Address Boulevard offers a unique experience for guests and builds on the strong credentials of Address Hotels + Resorts in managing mixed-use luxury hotels and serviced residences.

The new destination is inspired by classic European finesse underlined with contemporary understated luxury. A core theme of the hotel is the notion of timeless elegance. The interiors are influenced by the era of luxurious travel while exquisite craftsmanship is evident in public areas giving the property the



Exterior view of Address Boulevard by Emaar Hospitality Group. Photo: © Emaar Hospitality Group

feel of being surrounded by someone's private art collection making family and business guests feel perfectly at home.

Appealing to leisure and business travellers, Address Boulevard enjoys an exclusive city location that is perfect for overseas visitors who yearn to be in close proximity to retail and leisure attractions. Within walking distance of The Dubai Mall, the world's largest retail and entertainment destination, the hotel is also on the vibrant Mohammed bin Rashid Boulevard, offering an extensive choice of specialty food and beverage concepts, ideal for families and young visitors.

It is also in close to Dubai Opera, the recently opened multi-format performing arts venue in Downtown Dubai, and near the Dubai International Financial Centre and Dubai International Convention Centre.

## Morphogenesis wins architectural competition to design office building in Surat

**New Delhi, India** – Morphogenesis has won an architectural competition to design what will be the world's largest office building at 65,00,000 square feet, touted to become the centre of the international diamond trade. Called the Surat Diamond Bourse, the project is located in Surat, in the state of Gujarat, India.

Integrating a vertical forest into the scheme, Morphogenesis takes this as its design challenge to achieve the highest standards of traffic and people management, an EPI of less than 50 kWh/m<sup>2</sup>/yr.



Artist's impression of Surat Diamond Course. Photo: © Morphogenesis



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## AED850 million worth of projects in store as Nakheel creates new residential tower, retail, cinema and car park complex at Ibn Battuta Mall

**Dubai, UAE** – Master developer Nakheel has begun work on a new 55-storey residential tower, 16-screen cinema complex, multi-storey car park and retail expansion – with a combined total project value of AED850 million – at Ibn Battuta Mall in Dubai.

Nakheel has awarded a contract worth nearly AED23 million to Dubai-based National Gulf Constructions LLC for enabling works at the site, located on the southern side of the world-famous mall, adjacent to The Gardens community.

The new residential, retail and entertainment development – the latest in Nakheel's ongoing expansion at Ibn Battuta Mall – includes:

- a 55-floor residential tower with 279 apartments, pool deck, landscaped grounds, retail space and multi-storey car park
- a 16-screen dine-in cinema complex, with its own multi-storey car park with almost 1,400 spaces, directly linked to the mall
- a retail expansion with 53,000 square feet of shop space and over 600 new parking spaces

### High-rise living at Ibn Battuta Residences 2

With a built-up area of 675,000 square feet, Ibn Battuta Residences 2 will soar 55 floors above Ibn Battuta Mall, dominating the Jebel Ali skyline and creating a new landmark for the area.

With 279 high quality apartments, the tower will complement Ibn Battuta Residences, Nakheel's 48-floor twin-building apartment complex, announced last year. The three towers have 810 apartments between them.

Directly connected to the mall and its 400 shops, restaurants and entertainment facilities, Ibn Battuta Residences 2 will have 108 two-bedroom and 171 three-bedroom apartments, available for lease, plus ground floor retail facilities.

A health and wellness centre – featuring swimming pools for adults and children, fitness club and café – will occupy the top-level of a four-storey parking podium housing 515 spaces. The complex will also have a 32,000 square feet landscaped park with a 200 metre jogging track, children's play area and shaded seating.

### Cinema complex

Ibn Battuta's new, 16-screen cinema and dining complex will cover more than 700,000 square feet, including 114,000 square feet of leasable space. Built over four levels, the new facility will boast a multi-storey car park with nearly 1,400 parking bays as well as a range of casual dining restaurants and cafes.

Offering luxury and standard viewing packages, the new dine-in cinema will complement Ibn Battuta Mall's existing 21-screen cinema, located at China Court. Construction proposals are due for assessment soon.

### Mall expansion

The latest phase of Nakheel's ongoing expansion programme at Ibn Battuta Mall includes 53,000 square feet of shop space and 625 parking spaces across three levels. The new complex will be linked to Ibn Battuta Residences 2.

With a built-up area of 260,000 square feet, the extension forms part of Ibn Battuta's existing India Court, and will feature nearly 30 new shops.

The new projects announced today are part of Nakheel's phased expansion at Ibn Battuta Mall that is transforming the area into a sprawling retail, residential and leisure hub spanning an area of more than seven million square feet.

Phase one, comprising a 300,000 square feet retail extension, a 210 metre link to the Dubai Metro and a 372 room hotel, opened last year. Subsequent phases include a one million square feet mall featuring a retractable roof for year-round shopping and dining, and a second hotel.



Photo: © Nakheel

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## IMKAN's Makers District to give Abu Dhabi its new heart

**Abu Dhabi, UAE** – Makers District, an 18-hectare masterplan development on Reem Island, Abu Dhabi, revealed as a new waterfront community being designed specifically to cultivate creativity through residential, hospitality, commercial and retail space.

The-Artery will sit at the heart of Makers District, and is the first building to be unveiled by IMKAN, an Abu Dhabi-based real estate developer.

An innovative flexible art space that will offer makers a place to both create and showcase their work, The-Artery will span 26,000 square metres and is a multi-use building that integrates makers space with a parking garage.

Speaking at Cityscape Abu Dhabi, Walid El Hindi, CEO of IMKAN, said: "IMKAN is setting out to create a dynamic, integrated and engaging community that captures the collaborative spirit of the maker movement. This journey begins with The-Artery, which will be a regional creative powerhouse in the heart of Abu Dhabi."

Led by a strong research base, with a heavy focus on identifying new trends and emerging opportunities, IMKAN aims to introduce creative solutions while bringing disruptive change to the region's real estate landscape.

The developer has awarded The-Artery design to BIG, an architectural design firm based out of Copenhagen and New York. Architectural firms MVRDV from Rotterdam and 10 Design from Hong Kong will also be involved in Phase 1 of the development.

El Hindi added: "IMKAN is committed to creating soulful places that enrich people's lives both in the UAE and overseas. As we make progress with the Makers District Abu Dhabi, our intention is to roll out the concept in Egypt, Brazil, Morocco, the UK and Montenegro."

Construction on The-Artery is anticipated to start later in 2017. Makers District is scheduled to be operational by 2020.



## New Zealand Green Building Council announces new Director of Marketing and Partnerships

**Auckland, New Zealand** – The New Zealand Green Building Council (NZGBC) is pleased to announce the appointment of Joanne Duggan to the position of Director of Marketing and Partnerships. Effective June 2017, Ms. Duggan will step into the newly created role.

Ms Duggan said: "The launch of new residential and commercial buildings services provides an exceptionally exciting time to join the NZGBC. I believe we will see a surge in the demand and awareness of the need for more quality and resilience in our built environment. My passion for sustainability drew me to Resene and I am proud of the stance they've made to the paint industry in New Zealand. I'm now really looking forward to working at an industry level for such an important organisation and contributing towards the sector moving forward."

Joanne's chosen industry has always been the building and property industry from architecture and design specification to commercial and residential construction. With a background in Architectural design and a true passion for the industry, the people, companies and products within it, Joanne has worked for product manufacturers for the past 23 years. Having worked for Resene for the past 10 years Joanne has built up vast knowledge of property industry in New Zealand. She will assist the NZGBC to build on the tenfold increase in Homestar ratings, the residential tool for healthier warmer homes and the launch of Green Star Performance, a new tool for existing buildings.



Joanne Duggan.  
Photo: © New Zealand  
Green Building Council

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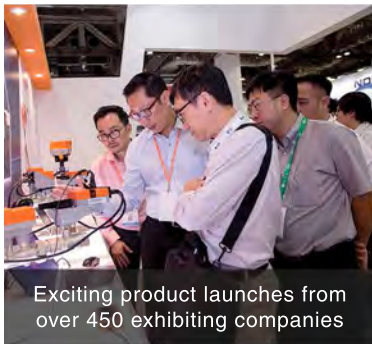


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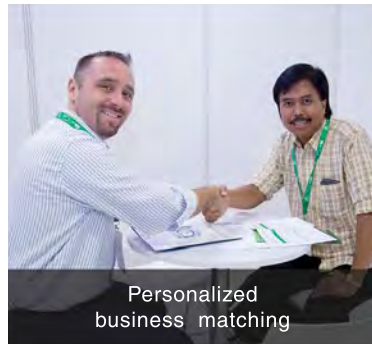


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## First phase completes at CIBIS

**Singapore** – A new office building designed by Broadway Malyan has completed in Jakarta, offering high quality business space in the city. Tower 9, part of CIBIS Business Park, comprises 54,800 square metres of office and ground level retail space and includes the largest Grade A space available in Jakarta, with floorplates of 4,000 square metres.

The completion marks the first phase of the business park that is being delivered by PT Bhumyamca Sekawan. The aim of the project is to provide international standard office space in Jakarta to attract new companies into the market and provide better space for existing businesses looking to improve and upgrade their current premises. Architecture and urbanism practice Broadway Malyan designed the masterplan for CIBIS Business Park as well as the detailed design for Tower 9.

Ian Simpson, Director at Broadway Malyan, said: “The challenge was to balance what would be viewed as an “international style” office building with the local Indonesian culture. When buildings are designed without that local context in mind, it is very difficult to deliver something appropriate for the surroundings.

“This is our first built project in Indonesia and it was important to us to get it right and provide something at a high standard, which is reflective of both the area’s character and the aspirations for the development.”

The tower has received LEED Platinum Pre-certification due to a number of sustainability focused initiatives in the design. This includes a ‘green roof’, which reduce storm water run-off and ambient temperatures, and rainwater management systems to collect, store and purify water for other uses.

Following completion of Tower 9, Broadway Malyan is working on the designs for further buildings at CIBIS Business Park. Ed Baker, Director at Broadway Malyan and Head of Masterplanning, added: “Our long term aim is to create a business park with a village feel. The heart of our design is a 1.5 hectare square which will include a Banyan tree and a water feature, which will help to cool the area.

“The design prioritises pedestrians, with the parking located underground, to provide a walkable, open space for people to enjoy. As we design the other towers, we will maintain this approach, ensuring that each building complements what has gone before,” added Ed.

A further eight towers are planned as part of the 12 hectare masterplan. Whilst primarily providing office space, a number of other uses are proposed for these buildings including serviced apartments, conference facilities and retail and leisure units. Broadway Malyan is also providing landscaping, branding and wayfinding services for the development.



Photo: © PT Bhumyamca Sekawan

## Masdar City awards facilities management contract to Cofely Besix Facility Management

**Dubai, UAE** – Cofely Besix Facility Management has been awarded the facilities management contract to provide total facility management services to Masdar City.

Masdar City is a sustainable urban development that fosters an innovation ecosystem, connecting education with research & development and business with investment opportunities. The project is home to the first clean-tech cluster in the Middle East integrated with a world-class research institute, the Masdar Institute of Science and Technology.

The initial contract is for a 3-year period, and includes full hard, soft and civil facility management services including operations and maintenance of electrical systems, HVAC and ventilation systems, potable water, fire detection systems, life-safety critical systems, elevators, BMS, low voltage systems and civil infrastructure work. Cooling of the buildings is provided via an energy efficient district cooling plant located within the confines of the site to assist natural cooling elements of the building design.

“Energy Management plays a key role in the scope of work, and we will be introducing several innovative forms of technology and ideas to continually improve our efficiency and service delivery,” explained Ian Harfield, CEO of Cofely Besix Facility Management.



## dwp set to reshape the business of architecture and design in Australia

**Sydney, Australia** – Award winning international design partnership dwp is expanding in Australia, having completed a full financial merger with dwp|suters, bringing with it a new dynamism to the design industry in Australia.

This fully establishes dwp – design worldwide partnership – as a global firm with its heart in Asia, serving an increasingly diverse client base in the Australian market, notes CEO Leone Lorrimer.

Since its founding in Asia by Scott Whittaker, dwp now has more than 450 staff in 12 global studios. The merger is the ‘next evolution’ in the transformation of the design house, after dwp and Suters Architects announced their commitment to work together as a fully integrated design solution in 2013.

“As the Australian and dynamic Asian markets become increasingly integrated, and investment flows in both directions, dwp will bring a new level of architecture and design sensibility to our clients,” said Ms Lorrimer.

“This move brings dwp’s now world-renowned design expertise to our Australian studios and expands our reach into new markets, bringing skills in hospitality design, luxury residential, and tall building architecture,” she added.

dwp’s extensive client base includes global brands and Fortune 500 companies such as Mercedes Benz, Accor, Mandarin Oriental, and HSBC. At the forefront of the reinvention of the design industry, dwp is driven by 100 percent cloud based technologies bringing world-class collaborative design tools such as Virtual Reality and BIM to clients in Australia and Asia.



CEO of dwp Leone Lorrimer. Photo: © Bec Lorrimer

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## Building work nears completion on AED500 million First Avenue project in Dubai's Motor City

*Countdown on as mall and hotel in Motor City set to launch in May.*

**Dubai, UAE** – Building work is almost finished on First Avenue, the new shopping mall and hotel development in Motor City. The project's backers say construction work for the mall is on track for completion by the end of this month, with fit-out for the retail units set to take another four months. The mall is expected to open in May, along with the adjoining hotel.

First Avenue's anchor tenants are in place, taking up 40 percent of the mall's leasable area. Carrefour, the leading shopping mall, retail and leisure pioneer across the Middle East and North Africa, will take up 11 percent of the leasable area. Prime Medical Centre, a leading provider of clinical, diagnostic and medical tourism services, will absorb 9 percent of the leasable area. Fun Block, part of Fun City by Landmark Group, will introduce a new generation of children's entertainment space, occupying 9 percent of the leasable area. Reem Al Bawadi, a famous Arabic food and beverage chain, will take up 6 percent of the leasable space. ACE Hardware, the world's largest hardware retail cooperative selling products to fix homes and businesses, will have 5 percent of the leasable area.

First Avenue, which is owned and operated by Saudi Arabia's Al Tawfeeq for Development and Investment (ATDI), will meet rapidly scaling consumer and business demand in Motor City as Dubai's tourism sector and the local population grow.

First Avenue, based at the edge of the Dubai Autodrome, will have 70 high-street retailers and 15 casual dining restaurants. The adjoining four-star 150-room hotel, which can be accessed directly from the mall, will be operated by Park Inn by Radisson, with an all-day restaurant, lobby, meetings and events spaces, gym, spa and swimming pool. The hotel overlooks the race track at Dubai Autodrome.

First Avenue's backers want the mall to be an all-week-round social and retail hub in the Union Properties-developed Motor City, with a distinct automotive and lifestyle theme. The two-storey development stretches across 500,000 square feet with a one-kilometre roadway linking each and an underground car park with 400 spaces.



Photo: © First Avenue Mall and Hotel

## SCC's Tanah Merah Ferry Terminal to become Singapore first's solar-powered ferry terminal

**Singapore** – From June 2017, Singapore Cruise Centre's (SCC) Tanah Merah Ferry Terminal (TMFT) will become Singapore's first solar-powered ferry terminal. Under an agreement with Sunseap Group, SCC will buy 100 percent of TMFT's energy requirements via a hybrid offer that allows SCC to utilise solar power and supply from the grid. The hybrid offer is uniquely structured around Sunseap's capabilities as a licensed wholesaler (generation) and an electricity retailer.

Sunseap will develop a 650 kiloWatt-peak (kWp) solar photovoltaic (PV) system that will be placed atop the ferry terminal. This allows TMFT to fulfill about one-third of its daytime energy requirements. At the same time, Sunseap will also supply grid electricity to TMFT to supplement the intermittent source.

Ms Christina Siaw, SCC's CEO, said: "As Singapore's leading operator of cruise and ferry terminals, SCC believes in embracing sustainability in our operations and harnessing technology to do so whenever possible. The deal with Sunseap will allow us to tap solar power but still be assured of stability of energy supply to keep our terminal running smoothly. At the same time, we are reducing carbon footprint and achieving savings on our electricity bills."

Falling prices in solar modules in recent years have triggered a phenomenon known as grid parity, where the cost of generating solar electricity is equal or lower than that of conventional sources. At the same time, the Singapore government is encouraging businesses and households to go green and has announced plans to implement a carbon tax in 2019 to get companies to reduce greenhouse emissions and consider clean energy options.

Speaking on the hybrid offering, Mr Frank Phuan, Co-Founder and Director of Sunseap Group, said: "Sunseap is always looking for ways to make the adoption of clean energy a smooth transition for our clients. The hybrid offer gives us more flexibility to devise an attractive offer for our clients."

Mr Phuan added that the company is also offering energy supply plans that include a solar element via offsite arrangements. This includes the recently announced GoEco plan. When completed, the solar PV system will give the 20-year-old ferry terminal a facelift and allow TMFT to offset at least 327 tonnes of carbon dioxide annually.



Tanah Merah Ferry Terminal.  
Photo: © Singapore Cruise Centre



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## Benoy to design Sydney flagship for David Jones

**Hong Kong** – Benoy is pleased to announce its appointment to deliver the new David Jones flagship in Sydney, Australia. As the Lead Designer, Benoy will oversee the design of the major redevelopment of David Jones' iconic Elizabeth Street store in the heart of Sydney's CBD.

"This is a milestone project for David Jones and we are pleased to be collaborating with Benoy, a leader in global design and architecture with a reputation for delivering innovative, award-winning retail developments. Our vision is to create a new benchmark for both Australian and international retail, delivering a world-class shopping experience for our customers while embracing the heritage of this remarkable building," said David Thomas, David Jones Chief Operating Officer.

The David Jones Elizabeth Street store will be entirely refurbished and internally redesigned to create a luxurious and contemporary flagship for the brand. The development will cover a GFA of 39,000 square metres across 12 levels and will, for the first time, bring together a unique combination of contemporary food and dining, fashion, beauty, accessories, and homeware under one roof.

"This is an incredibly exciting win for Benoy and one which highlights the relevance of our international experience in new markets such as Australia. The David Jones Elizabeth Street store is a truly opulent building with a long history and we look forward to celebrating the heritage of this beautiful, grand building while innovating the retail experience for the people of Sydney," said Terence Seah, Director at Benoy.

Redevelopment will commence in late 2017 and is expected to complete in late 2019. The works will occur across several coordinated phases, prioritising minimal disruption to David Jones customers with trade continuing in both the Elizabeth Street and adjacent Market Street stores throughout the refurbishment.

Australian architectural firm Crone has been appointed to work with Benoy.



Photo: © Benoy

## Otis supplies escalators and moving walkways to serve passengers at expanded Shanghai Pudong International Airport

**Shanghai, China** – The new satellite terminal to be built as part of the Shanghai Pudong International Airport expansion will be served by 279 Otis escalators and moving walkways. Covering an area of 622,000 square metres and comprising two linked satellite halls, the new facility will be the world's largest satellite terminal.

When completed in 2019, it will boost Pudong Airport's handling capacity to 80 million passengers annually, up from 60 million at the end of 2015.

A major aviation hub for China and Asia, Pudong Airport is the main international airport for Shanghai, China's financial capital. It currently has two terminals, four runways and three cargo sections. Hosting a range of domestic and international airlines, it offers direct and connecting flights to key countries and regions across the globe. The escalators and moving walkways will be supplied by Otis Elevator (China) Co., a local Otis entity.

"Otis is the industry leader in the infrastructure segment in China, supporting the current Pudong Airport, as well as airports in Beijing, Guangzhou, Shenzhen and other cities, together with metro and high-speed rail stations across the country. We are proud to be selected again to support the Pudong Airport expansion by facilitating passenger movement with comfort and convenience," said Perry Zheng, Otis China President.



Pudong Airport expansion. Photo courtesy of Otis Elevator.

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## SOM leads design of 16-hectare mixed-use district in Central Bangkok

**Bangkok, Thailand** – TCC Assets (Thailand) Company Limited and Frasers Centrepoint Limited (FCL) have unveiled plans for One Bangkok, a new 16-hectare mixed-use development in the heart of Bangkok.

Skidmore, Owings & Merrill (Thailand) Limited (SOM) is working with a team of local and international architecture and landscape architecture firms to complete the vision for One Bangkok – the largest private-sector development in Thailand to date. Adjacent to the city's beloved Lumpini Park, One Bangkok introduces an extensive collection of residential, hotel, retail, office, and public spaces to the city center. An estimated 60,000 people will live and work in the district when complete in 2025.

SOM's vision for One Bangkok establishes a vertical village designed to foster community and promote well-being in a dense urban environment. Welcoming streetscapes create a sense of place where people wish to return, and a wide range of outdoor spaces, including eight hectares of public plazas and landscaped greenspace, form a new centre of social life in the city.

"Bangkok is one of the world's most dynamic, energetic cities, with an exceptionally vibrant street life," said SOM Design Partner Scott Duncan.

"Our vision for One Bangkok seeks to capture that energy, extending the vitality of the city's streets through the district and then upward, weaving green, outdoor spaces into the fabric of the towers as they rise. Inside and out, places for collaboration, socialising,



One Bangkok. Image © SOM | Atchain

and relaxation cultivate community in a vertical environment," added Scott.

One Bangkok is the first project in Thailand to target LEED Platinum certification for Neighborhood Development: the architecture and landscape respond to and embrace the tropical climate and ecology, utilising sustainable design approaches and technologies to significantly reduce energy consumption and water use. The master plan centralises energy and water-management systems to optimise efficiency and to anticipate future growth. The use of greenspace and permeable materials will retain rainwater on-site to reduce runoff and

facilitate absorption that will help replenish groundwater resources. SOM is working with the One Bangkok project team to design a selection of towers in the district, each with its own unique character and form: green terraces cascade down one tower; on another, two volumes are joined together by a lattice of sky gardens and atria. The design of the towers, shaped by a multidisciplinary team of architects, engineers, and sustainability experts, reduce the ecological footprint of the district through careful site placement and positioning and a suite of sustainable engineering systems tailored to the local climate.

## Pan-United Concrete Pte Ltd attains the "Leader" certification from the Singapore Green Building Council

**Singapore** – Pan-United Concrete Pte Ltd, the wholly-owned subsidiary of Pan-United Corporation Ltd, has received the "Leader" certification from the Singapore Green Building Council (SGBC).

According to the company, Pan-United Concrete is the first and only local concrete firm to attain the "Leader" certification from the SGBC.

The "Leader" certification was awarded to over 150 specialised concrete products in PanU Concrete's "Eco" and "Green" ready mixed concrete ("RMC") ranges – the highest level of sustainability certification in SGBC's 4-tier classification system. These products were specially developed by PanU's in-house research & development team at its state-of-the-art Innovation Centre.

The concrete products in the "Eco" and "Green" ranges possess a higher content of recycled raw materials, making them more environmentally-friendly and sustainable than regular concrete products. For instance, PanU Concrete's specially-developed "Self-Compacting Concrete" was used in the foundation raft of the newly-built Tanjong Pagar Centre, which resulted in a 40 percent reduction in application time, and a 15 percent decrease in noise pollution, as compared to the application of regular concrete.

Er. Yvonne Soh, Executive Director of SGBC, remarked: "PanU Concrete has showcased its emphasis on sustainability by being the first concrete producer in Singapore to achieve the maximum four-tick "Leader" rating for green concrete products. Having cleared the stringent assessment process of the Singapore Green Building Product labelling scheme, attaining the highest possible rating is testament to PanU's commitment to sustainability in the built environment, setting benchmarks for the industry."

Mr Ken Loh, Executive Director of PanU Concrete, said: "The dedication and collaborative efforts of our team at our Innovation Centre have been instrumental to our success. Since its inauguration in 2012, the Innovation Centre has developed more than 300 types of specialised high-performing concrete products that are not only sustainable in nature, but also more time and manpower efficient to use at site. Many of these products have since gone on to be commercialised for production, and we continue to receive positive feedback from our customers."

Mr Loh also noted that several of the products created in-house, such as "Underwater Concrete", were developed in partnership with customers, working to address their specific building needs, with the least impact to the surrounding environment and communities.



PanU Concrete's specially-developed "Self-Compacting Concrete" was used in the foundation raft of the newly-built Tanjong Pagar Centre in Singapore, which resulted in a 40 percent reduction in application time, and a 15 percent decrease in noise pollution, as compared to the application of regular concrete. Photo: © Pan-United

## Khoo Teng Chye appointed Chairman of ULI Singapore

**Hong Kong** – Khoo Teng Chye, Executive Director for the Centre for Liveable Cities (CLC), Ministry of National Development (MND), Singapore, has been appointed Chairman of Singapore for the Urban Land Institute (ULI), an interdisciplinary research and education institute with more than 40,000 members dedicated to leadership in real estate and land use and creating thriving communities worldwide.

Khoo, who was formerly the Chief Executive of PUB, Singapore's National Water Agency and Chief Executive Officer / Chief Planner at the Urban Redevelopment Authority (URA), is ULI's first Council Chair to come from the public sector in Asia Pacific. As ULI Singapore Chairman, he will lead the Executive Committee in Singapore, which will continue to focus their efforts in providing long-term thinking and sustainable solutions for the city's ongoing development.

ULI Singapore has been extremely active in the city for a number of years. The National Council has advised on a number of issues related to urban development and in 2016, ULI Singapore, together with the CLC completed a piece of research on "Creating Liveable Cities through Car-lite Urban Mobility" which proposed practical recommendations on moving cities towards a more sustainable



**Khoo Teng Chye.** Photo: © Centre for Liveable Cities

mobility future with reference to the city-state. This is the third initiative that ULI has worked on together with CLC, with the other two being defining 10 Principles for Liveable High Density Cities and producing a report on Creating Healthy Places through Active Mobility. One of Khoo's core objectives, as Chairman, is to extend this relationship between the two organisations further, and to continue to facilitate the sharing of knowledge and understanding with

regards to sustainable urbanisation.

Khoo's second objective is to help ULI play an active role in supporting some of the exciting new developments in Singapore, like the proposed second Central Business District at Jurong Lake. Khoo believes that many of ULI's international members are in the unique position to advise and work with the Singapore urban planning and real estate community.

"I firstly became familiar of ULI's work when I was working for the URA so it is an honour for me to be invited to be Chairman of ULI Singapore," said Khoo. "Urbanisation is a complex process everywhere in the world and the public sector has to work with the private sector for it to be a success. ULI helps both sides come together, through providing new models of collaboration, and I look forward to helping extend ULI's mission in Singapore," he added.

"We're very excited that Khoo Teng Chye will be leading the national council in Singapore as he has been a great advocate of ULI in the past," added John Fitzgerald, Chief Executive Officer of ULI Asia Pacific. "His knowledge of the Singapore real estate industry is unparalleled and with his leadership I am confident that ULI will continue to play an important role to the development of the city," he added.

## NTU opens The Wave, a mega sports hall built using sustainable technologies



Mr Lawrence Wong, Minister for National Development & Second Minister for Finance, launches NTU's latest icon in sustainability, The Wave. (From left to right: Mr S Chandra Das, NTU Pro-Chancellor, Mr Koh Boon Hwee, Chairman of NTU Board of Trustees, Mr Lawrence Wong, Minister for National Development & Second Minister for Finance, Professor Bertil Andersson, NTU President, and Mr Othman Haron Eusofe, NTU Pro-Chancellor). Photo: © NTU

**Singapore** – Nanyang Technological University, Singapore (NTU Singapore) unveiled its new sports hall named 'The Wave', the first large-scale building in Southeast Asia built using an innovative timber construction technology known as Mass Engineered Timber. According to NTU Singapore, it provides five times better heat insulation than concrete and is able to support a continuous 72-metre wave-like roof without the need for internal columns.

This opens up a cavernous three-storey space with no internal pillars and which can host three full-sized basketball courts or 13 badminton courts.

The Wave is a showpiece of innovative technologies which includes 980 mechanised retractable seats, and a special cooling system that chills the air as it enters the hall so that no conventional air-conditioning systems are needed.

NTU President Professor Bertil Andersson said: "Sustainability is a core value of this university, and we walk the green talk, from education and research, to the building technologies on the NTU campus. As an owner of a pine tree forest in Sweden, I'm a firm believer in sustainable forestry. I'm proud that NTU has pioneered the innovative use of wood in buildings here resulting in another iconic NTU structure, The Wave."

The Wave was officially opened on 24 April 2017 by Mr Lawrence Wong, Minister for National Development & Second Minister for Finance. He said: "The Wave marks a new milestone in Singapore's push to be more productive in construction. We

are very glad that NTU is supporting this effort. Their focus on environmental sustainability and openness to new building materials and methods show what we can achieve together. This gives us confidence that we can continue to build a better and more sustainable Singapore in the years to come."

With Mass Engineered Timber, NTU's sports hall is designed with external columns to support the seven long-span timber arches which weigh over 440 tonnes. This is possible because Mass Engineered Timber is much stronger than concrete or steel when



The Wave is set to become NTU's latest icon in sustainability, pioneering an innovative timber construction technology which is the first-of-its-kind in Southeast Asia. Photo: © NTU

comparing its weight-to-strength ratio. As the building process involves assembling prefabricated parts, construction is sped up, resulting in 25 percent savings in manpower.

The Wave comes with eco-friendly features such as energy-saving LED lighting and solar powered systems, and is designed to take advantage of its natural surroundings.

Using computer modelling of the sun and wind patterns on-site, the building designers aimed to harness the natural winds. Students will enjoy good ventilation with average wind speeds of about 0.4 metres per second. Each external wall has two layers with a pocket of air between them that insulates the heat on hot days. The walls have special metal coils installed with chilled water flowing through them. This cools the wind that enters the hall allowing warmer air to escape through convection.

These eco features are estimated to save over 40 per cent energy. Students can play badminton in this draft-free environment as there will be no wind disruption from fans. Neither is there a need for conventional air-conditioning to stay cool.

The Wave is designed by Japanese architect Toyo Ito and the contractor is a local SME called B19 Technologies.



The Wave at NTU not only pushes new frontiers in construction technologies, but also comes with a host of sustainable technologies such as a special cooling system that gives students a unique sports experience. Photo: © NTU

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## CAMBUILD 2017 – Encouraging continued growth of a nation

**Phnom Penh, Cambodia** – CAMBUILD 2017 – one of the biggest international building & construction industry show in Cambodia strives to continue being the number 1 platform for the building, construction, M&E and interior design industry to source for new technology, supplies, solutions and new design trends and ideas.

In its seventh edition this year, CAMBUILD will focus on the theme “Towards Quality, Excellence & Green Building”. This is to meet the demand for property buyers looking for better quality materials and fittings while supporting the government’s initiative to promote environmental sustainability in the construction sector.

Cambodia’s focus on improving the quality of its buildings while maintaining ecological conservation hints at the considerable progress the country has made. With the country’s economy expanding at over seven per cent per annum – one of the fastest growth rates in Asia, spurred

on by the tourism, retail, banking, and manufacturing sectors, the building and construction sector is set to expand further. In fact, according to the latest report released by the Ministry of Land Management, Urban Planning and Construction (MLMUPC), construction projects approved by the government in 2015 grew to an estimated value of USD3.33 billion, a 33 percent increase from the previous year.

Despite concerns raised that such an influx of projects could cause the construction sector to implode, many industry experts such as LBL Construction believe such concerns to be misguided. In fact, according to an article from news site Southeast Asia Globe

such projects will enhance competition, in turn driving a greater demand for high-end, quality construction.

Such is the desire of the country to improve its building sector that has set the stage for CAMBUILD 2017, which aims to continue providing the perfect business-to-business platform for investors and experts in the construction industry to meet. It also presents a great opportunity for architects, contractors, consultants, engineers and suppliers from around the world to meet, discuss and share the latest ideas, techniques and technologies of the trade.

Visitors to CAMBUILD 2017 can expect to see exhibits from local companies and brands as well as global leaders in the building and construction sector at the event. These include Rieckermann Co. Ltd. – a world-renowned provider of engineering and industrial solutions, Inovar – a pioneer of quality laminate flooring in Australasia, Smart-Acon Trading Co.,

Ltd. – a leader in supplying decorative and construction materials from well-known companies around the globe, and Kaldwei – a German brand well-known for producing luxurious bathroom fittings. This event promises to be not only an exciting opportunity for exhibitors, delegates and visitors to engage in lucrative business, it will also pave the way to an even brighter future for Cambodia and quite possibly the rest of the world as well.

For more information on CAMBUILD 2017, contact Ms Rineat at [rineat@ambtarsus.com](mailto:rineat@ambtarsus.com), Ms Limy at [limy@ambtarsus.com](mailto:limy@ambtarsus.com), or Mr Richard at [richard@ambtarsus.com](mailto:richard@ambtarsus.com) or visit the website [www.cambuildexpo.com](http://www.cambuildexpo.com).



## LankaBuild'17 – The international exhibition returns this year

**Colombo, Sri Lanka** – LankaBuild'17 – Sri Lanka's International Building & Construction Show will be held at the Sri Lanka Exhibition & Convention Centre (SLECC) between the 10th and 12th of July 2017. Currently in its second edition this year, LankaBuild aims to be the largest trade show of its kind in the country. It will provide a business-to-business platform where suppliers, developers, architects, consultants, engineers, designers, contractors, distributors and retailers can meet to discuss ideas and form networks. It will also provide a great opportunity for exhibitors and visitors alike to make investments, introduce new techniques and technology and to create business partnerships.

Although marked by instability in the past, Sri Lanka has since risen above those difficult circumstances, with astounding growth in its economy by over six percent in the past few years, and a Gross Domestic Product of US\$67 billion by the end of 2013. This growth is believed to continue in the coming years, with a projected GDP of more than US\$100 billion and an average income of more than US\$5,000.

Backed by a stable government committed to the nation's progress, Sri Lanka has quickly become a key destination for business and investment. It has taken on several projects to boost the infrastructure, which in turn will provide a backbone for further growth. Besides that, the government is engaged in fostering key catalysts for Sri Lanka's economic growth, such as tourism and building & construction. This is evident in the number of international hotels constructed in Colombo and other major cities around the country.

It was this focus on building & construction that the conceived the LankaBuild trade exhibition in partnership with corporate event organiser AMB Tarsus Events Group, and with the support of Sri Lanka's government organisations such as the Major Constructors of Sri Lanka and the Central Engineering Consultancy Bureau.

LankaBuild'17 will bring together some of the world's leading engineering companies that are involved in the building & construction sector. Among them include RBM Machinery – a leading manufacturer of construction machinery, Falcon Safe – which specialises in creating safety locks and doors, TAC Systems Formwork Sdn Bhd – a company focused on the design and manufacturing of construction equipment, and SYW Sdn Bhd – a certified manufacturer of anchor bolts, steel bands and U-bolts in Malaysia.

This event promises to be not only an exciting opportunity for exhibitors, delegates and visitors to engage in lucrative business, it will also pave the way to a brighter future for Sri Lanka and quite possibly the rest of the world as well.

For more information, email Mr Darren at [darren@ambtarsus.com](mailto:darren@ambtarsus.com) or Mr Syed at [syed@ambtarsus.com](mailto:syed@ambtarsus.com) or visit the website [www.lankabuild.org](http://www.lankabuild.org).



## Myanmar Build & Décor – the best source of building materials, interior design, furniture and décor

**Yangon, Myanmar** – ICVeX, a professional exhibition organiser registered in Thailand and a subsidiary of Index Creative Village, which is well known as world's 7th ranking event company, continues its fourth edition of Myanmar Build & Décor. In 2016, the third edition ended successfully with 25 percent growth with over 200 brands and companies from 10 countries including Myanmar, Thailand, Malaysia, Singapore, China, Korea, Japan, Vietnam, India, Italy, Germany and more. The three-day exhibition attracted 5,986 visitors which is 21 percent increase comparing with 2015.

With strong and continued support from the Republic of the Union of Myanmar Federation of Commerce & Industry (UMFCCI), Myanmar Construction Entrepreneurs Association (MCEA), Myanmar Engineering Society (MES) and Myanmar Associateship of

Government Technical Institute (Myanmar A.G.T.I. Society). The 4th Myanmar Build & Décor will be held from 5-7 October 2017 at MEP Mindama, Yangon. The exhibition again sponsored by SCG - ASEAN sustainable business leader company who will showcase modernised life scale mockup and the show will feature Thailand pavilion with over 30 companies, leading firms in architectural and interior design products and solutions from both Myanmar and international countries with an expected of 200 companies and brands. Many of these companies will showcase new and innovative products for the first time in Myanmar.

Beside an exhibition, Myanmar Build & Décor & Myanmar Home & Décor Magazine will continue its 2nd collaboration in organising a seminar on property & building design, a two-day seminar covering design trends, case studies, and industry information – a must attend activity for architects, interior designers, property developers and the building & construction industry professionals.

In collocation - Myanmar Associateship of Government Technical Institute (Myanmar A.G.T.I. Society) will organise 1.5 days seminar and Myanmar Construction Entrepreneurs Association (MCEA) will organise one day seminar covering the latest trends and technical knowledge for constructors, engineers, developers and the industry professionals. Both of seminars are CPD (Continued Professional Developers) accredited.

"Myanmar Build & Décor had been the best source for building material, furniture and interior solution to Myanmar Industry and we as the official support see great benefits to our members and the industry attending the exhibition," said U Mya Han, CEC member (MCEA) & Chairman / CEO Fortune International Limited.



"Design 103 sees the high potential of Myanmar market and that's why we are there and we believe that businesses there will be fruitful," said Mr. Wayne Paul Kaleta, Vice President of Design 103 International Limited.

"This is our first time joining the show. We are very impressed with the exhibition, the organiser's supports and met our objectives by connected to the quality targeted visitors including architects, developers, contractors and importers & distributors. The show indeed offered us more business opportunity in Myanmar," said Ms. Phattra Sahawat, Deputy Managing Director of Vanachai Group Public Co., Ltd.

For more information, tel (+66) 2 2713 3033, fax (+66) 2 2713 3034, email [varinthorn@icvex.com](mailto:varinthorn@icvex.com) or visit [www.myanmarbuilddecor.com](http://www.myanmarbuilddecor.com).

## BMAM & GBR Expo Asia launch theme “Internet of Things Meets FM”

**Bangkok, Thailand** – IMPACT Exhibition Management Co., Ltd. has teamed up with Sphere Exhibits, an exhibition organiser from Singapore, to announce BMAM and GBR Expo Asia 2017’s new show theme – “Internet of Things Meets FM”. It brings together the concept of Thailand 4.0 together with new technology, which has never been experienced before.

Today, cutting-edge Internet of Things (IoT) solutions are enabling businesses to overlay an IT network, connect all traditionally unconnected equipment and apply automated analytics and controls. Building owners and managers can significantly reduce their building’s energy waste and cut costs. The Internet of Things will certainly not just be the driving force of change and possibilities for the FM (Facility Management) and the services industry, but also for the rest of the world.

Ms. Pornphan Bulner, Director of IMPACT Exhibition Organizer, IMPACT Exhibition Management Co., Ltd., stated that “The previous editions of BMAM & GBR Expo Asia were great successes – 152 companies (91 Thai companies and 61 international companies), showcased their latest products and services over a total area of 6,750 square metres of exhibition space. More than 7,000 visitors from 36 countries attended, including Australia, China, Denmark, Germany, India, Indonesia, Italy, Japan, Korea, Malaysia, Myanmar, Singapore and Taiwan.

This year, BMAM & GBR Expo Asia 2017 is bringing together the latest

technologies and services in building maintenance and facilities management, construction and green building solutions and the latest 4.0 technology from Digital Focus, CI Group, Winnie’s Gadget, Sodexo and more. In line with the concept of Internet of Things Meets FM, there will be a feature zone for Smart Security and IOT, showcasing how to connect security devices and networks in the Internet of things (IoT).

The newest zone “Smart Building to Smart City Showcase” demonstrates the next generation of building innovation towards “Thailand Smart Cities”, based on the government’s economic policies and on the digital society (Digital Economy), to increase competitiveness in the country.

The exhibition will also host the Facilities Management Conference which will attract high level delegates from the industry. Delegates will get the opportunity to personally hear from industry experts and learn all about the best practices, current trends and the future of the Facility Management sector in Thailand and the ASEAN region. The Thailand Green Building Conference is another programme, which will present the latest technology and building solution trends at every stage of construction and participants will acquire knowledge on how to reduce costs, increase comfort and create healthier environments at the same time.

BMAM & GBR Expo Asia 2017 has teamed up with government agencies as well as industry associations like Architect Council of Thailand, Smart Cities Thailand Association, Thailand Facility Management Association, Building Safety Inspectors and Officers Association, to create a relevant and state-of-the-art exhibition.

The exhibition takes place at Hall 6, IMPACT Exhibition Center, Bangkok, Thailand from 20-22 September 2017. For more details, please contact Mr. Chanon Ekarattanukul at tel (+66) 2 833 5208, email [chanone@impact.co.th](mailto:chanone@impact.co.th) or visit [www.bmam-ubr.com](http://www.bmam-ubr.com).



## PEA starts Thailand Lighting Fair 2017 road show rolling in Indonesia

**Jakarta, Indonesia** – Thailand's Provincial Electricity Authority (PEA), Messe Frankfurt and The Exhibiz Co Ltd kicked off the first international roadshow in year 2017, which is one of the Thailand Lighting Fair 2017 activities with the business forum on "Smart Technology for Smart City Safe City".

The Indonesia road show is designed to promote "Thailand Lighting Fair 2017" the third consecutive trade fair that will take place on 16-18 November 2017 at BITEC, Thailand and to update the public and private sectors on ASEAN's energy efficiency trends and technology, and provide knowledge on smart technology from lighting, building automation to security, emphasising on energy saving and the efficient use of electricity to serve Indonesia's smart city roadmap 2025.

In addition to its flagship lighting technology, the 2017 edition will incorporate a building technology zone to follow Messe Frankfurt's world-class light+building series and run concurrently with Secutech Thailand 2017 under the main theme "Smart City Safe City."

Miss Siribhusaya Ungphakorn, minister counsellor (commercial) at the office of Commercial Affairs, Royal Thai Embassy, inaugurated the Thailand Lighting Fair 2017 roadshow, saying that at a challenging time for energy efficiency, lighting and smart lighting can bring new opportunities.

"Driven by the need for energy saving and intuitive energy solutions, the smart lighting market is expanding rapidly," she said. "The smart lighting industry will develop towards energy efficient solutions in response to global warming and other environmental issues, allowing for more energy efficiency of the limited resources while providing more efficient energy management. Smart lighting technology also contributes to various smart city applications to improve safety, efficiency and the quality of life by establishing a platform for video surveillance, electric vehicle charging, public Wi-Fi and much more, as well as to control costs and eliminate lighting wastage while promising to pave the way to better productivity for businesses."

She added: "The Indonesia roadshow is designed to open the gate for economic ties and collaboration that will



Photo: © Thailand Lighting Fair 2017

deepen the enduring friendship between Thailand and Indonesia and generate interest in the new opportunities that will arise through Thailand's exhibition platform, and the panel discussion will be a good educational forum as well as build a network for future business partnership for both private and government sectors."

Mr Payomsarit Sripattananon, deputy director of Alternative Energy Encouragement and Efficiency Department of the PEA said that energy trends throughout ASEAN are all pointing towards the smart city ideal.

"With the concept already in place, the practicalities follow," he said. "At the PEA we have developed a series of technology infrastructures that provide a solid foundation for smart city development. For example, the PEA smart grid seamlessly connects the electricity system with the information technology and the communications systems, while the PEA smart meters will optimise the power system operation to be more efficient, safe and reliable. Both these are fundamentals to develop smart homes, smart buildings and smart cities." PEA, as a technology driven organisation, is hosting the Thailand Lighting Fair for the third consecutive year.

Pakwan Jiamjiroj, general manager of The Exhibiz Co Ltd, said: "The positive feedback for Thailand Lighting Fair over the past two years indicates the

prospect of Thailand becoming the hub of ASEAN lighting warming and other environmental issues, allowing for more energy efficiency of the limited resources while providing more efficient energy management. Smart lighting technology also contributes to various smart city applications to improve safety, efficiency and the quality of life by establishing a platform for video surveillance, electric vehicle charging, public Wi-Fi and much more, as well as to control costs and eliminate lighting wastage while promising to pave the way to better productivity for businesses.

Pakwan added: "The Indonesia roadshow is designed to open the gate for economic ties and collaboration that will deepen the enduring friendship between Thailand and Indonesia and generate interest in the new opportunities that will arise through Thailand's exhibition platform, and the panel discussion will be a good educational forum as well as build a network for future business partnership for both private and government sectors."

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Pakwan Jiamjiroj, general manager of The Exhibiz Co Ltd, said: "The positive feedback for Thailand Lighting Fair over the past two years indicates the prospect of Thailand becoming the hub of ASEAN lighting technology. This year, we will organise a bigger and better Thailand Lighting Fair by adding a Building Technology Zone to follow the light+building series of Messe Frankfurt and run in concurrent with Secutech Thailand 2017. The shows, which are organised under the main theme of Smart City Safe City, will cover ranges of technologies and solutions from upstream services to downstream supplies needed for Smart City and Safe City development toward Thailand 4.0 policy. The main focus of Thailand Lighting Fair will always be on latest lighting technologies and solutions that uplift the shows as the leading lighting trade fair in Southeast Asia. The additional building zone and security and smart home technology under Secutech will make it more comprehensive for visitors in one



Photo: © Thailand Lighting Fair 2017

visit. This year we expect to have 700 exhibitors and over 15,000 visitors from over 40 countries."

Other highlights include Smart City & Safe City Landmark, a demonstration zone of the smart city, along with Smart City Showcase and Smart City Investment Zone.

Running alongside the shows are ASEAN Smart City Conference 2017 and ASEAN Architecture & Lighting Design Conference 2017, together with a series of international conferences, seminars, workshops and certificate courses by industry speakers from Thailand and overseas. PEA will also organise certificate courses on lighting standards and seminar topics on renewable energy

and smart lighting.

"To maintain our leading position as leading lighting trade fair in ASEAN, we will run aggressive marketing plan with series of local and regional roadshows," said Pakwan. We are beginning in Indonesia, where we believe there is a very large potential for mutual business opportunities, and then we shall proceed to Cambodia, Laos and Myanmar, all of which have demonstrated strong economic growth and rising demands for new technology."

**For more information, contact The Exhibiz Co Ltd at tel (+66) 2 664 6499, fax (+66) 2 664 6477, info@thailandlightingfair.com or visit www.thailandlightingfair.com.**

## Ecobuild Southeast Asia 2017 ends with resounding success

**Kuala Lumpur, Malaysia** – Ecobuild Southeast Asia (SEA), a leading event for sustainable design, construction and built environment, concluded with 14,068 attendees, an increase of 16.52 percent compared with last year, from 45 countries. Held in conjunction with International Construction Week (ICW) 2017, the event was hosted by Construction Industry Development Board (CIDB) Malaysia, and organised by UBM Malaysia, the largest trade show organiser in the region. It was held at the Kuala Lumpur Convention Centre from 12-14 April 2017.

Ecobuild SEA is the largest and most important annual event covering the full spectrum of the construction industry across Malaysia with co-located events such as Greenbuild Asia, Construction Showcase, ASEAN Solar, Ecolight ASEAN and Construction Career Fair. Also lending their strong support to the event were 34 stakeholders from different associations and the valued sponsors, which included Gamuda Berhad (Platinum Sponsor), MRCB Builders Sdn Bhd (Gold Sponsor),



Photo: © Ecobuild Southeast Asia 2017

Malaysian Timber Council (Silver Sponsor) and Malaysia Philips Lighting Commercial (Malaysia) Sdn Bhd (Silver Sponsor).

ICW 2017 and Ecobuild SEA 2017 were officiated by Dato' Sri Haji Fadillah Yusof, Minister of Works Malaysia, who delivered the opening speech to open the event, highlighting ICW 2017's theme, "Towards Enhancing Quality and Safety in Construction". Tan Sri Dato' Dr. Ahmad Mustafa Babjee, Chairman of UBM Malaysia and Tan Sri Dr. Ir Ahmad Tajuddin Ali, Chairman of CIDB Malaysia, were also amongst the dignitaries who graced the opening ceremony. The list of VIPs included Datuk Rosnah Binti Haji Abdul Rashid Shirlin, Deputy Minister of Works, Dato' Sri Zohari Bin Haji Akob, Secretary General of the Ministry of Works, Dato' Ir Ahmad 'Asri Bin Abdul Hamid, Chief Executive of CIDB Malaysia and Dato' Ir Mohtar Bin Musri, Director General of the Department of Occupational Safety and Health (DOSH), all giving their unconditional support to the industry.

"Quality and safety have always been of utmost importance in the construction industry," said the Minister. "Under the Construction Industry Transformation Programme (CITP), quality, safety and professionalism comprise the first strategic thrust on the industry's transformation agenda. Quality and safety, when combined, become a highly potent formula in enhancing the overall public image and perception of the construction industry in Malaysia and around the world."

Within Ecobuild SEA, more than 120 exhibitors provided the delegates good opportunities to explore product innovations, market trends and solutions. Among the delegates were engineers, developers, architects, government bodies and procurers, building consultants, contractors, manufacturers, and industry-related planners. The success of the exhibition reflects the confidence of the participants in the Malaysian economy as well as the Southeast Asian economy.

The event also served as the platform for the companies to forge new partnerships and business opportunities especially on the international front. MARTRADE and CIDB Malaysia had



Photo: © Ecobuild Southeast Asia 2017

once again joined hands in organising an international sourcing mission. The business matching had brought 10 international buyers from Cambodia, Indonesia, Myanmar and Vietnam, and matched them with 32 local companies. In all, 89 meetings were conducted.

This year, Ecobuild SEA continued to record positive visitor sentiments across new and returning visitors. After Malaysia, the top 10 countries visited were Singapore, China, Indonesia, India, Turkey, the Philippines, Pakistan, Nigeria and Brunei.

49 seminar sessions were packed with high-level visitors obtaining new and useful information delivered by 75 industry experts. Some keynote speakers included representatives from CIDB, DOSH, Institute of Engineers Malaysia (IEM), Public Works Department Malaysia (JKR Malaysia), Project Management Institute Malaysia Chapter (PMIMY) and Malaysian Photovoltaic Industry Association (MPIA), to name a few.

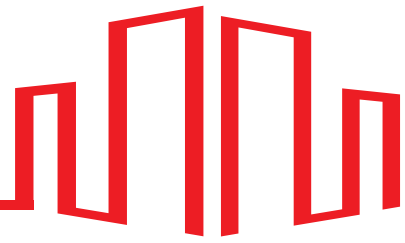
A series of conferences started on 10 April, the first conference was "Towards Excellence in Construction-Beyond Accolades"; on the second day the 8th Malaysia Construction Summit by MBAM and "Konvensyen Usahanita Binaan Malaysia" by MOW were held. These were followed by "Construction Contract Management by Excellence-Construction Dispute Avoidance: The First Line of Defence in Contractual Dispute Management and Resolution" by CIOB and "International Construction Safety Leadership Conference" by CIDB and DOSH. Apart from addressing the present needs of construction players, the event also featured programmes specially designed for the future generation of the construction industry. The "Youth Dome in Steel" Open Ideas Competition, organised by the MSSA and CIDB, invited engineering and architecture university students to compete in designing a structure. The first winner was from Universiti Teknologi Malaysia. Also conducted was Chemical Research Paper Competition organised by IEM for postgraduate/undergraduate students. The undergraduate winner was Yong Jun Xian from UTAR and the postgraduate winner was Chong Yen Yee from UNMC.

The next Ecobuild SEA is scheduled to take place at the Kuala Lumpur Convention Centre from 27 to 29 March 2018. Next year's theme will be "Productivity", which will create a more exciting and impactful content. For more information, email [ecobuild-sea@ubm.com](mailto:ecobuild-sea@ubm.com) or [www.ecobuildsea.com](http://www.ecobuildsea.com).



Photo: © Ecobuild Southeast Asia 2017

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## Istanbul New Airport set to become the world's largest when completed

**Oslo, Norway** – In 2013, Nordic – Office of Architecture partnered with Grimshaw Architects and Haptic in London to win the contract for Istanbul New Airport. Set to be the world's largest when its final phase is complete, the design effort harnessed the skills of a team spread across three countries.

Based on the Black Sea coast, some 35 km outside of Istanbul, the ambitious six-runway development will be delivered in four phases. The first phase will open in 2018 and aims to serve 90 million passengers per year. This will increase to over 150 million passengers per annum when the last phase is completed.

The Cengiz-Kolin- Limak-Mapa- Kalyon Consortium has the concession to build, operate and transfer the airport project. The construction of Terminal 1 started in 2015 with a projected completion in 2018.

The airport is designed as an exhilarating point of entry to this dynamic metropolis and a celebration of Istanbul's unrivalled position at the crossroads of east and west. The scale and ambition of the architecture reflect confidence in the country, in its energetic young population and in its potential for continued growth. The vaulted roof structure serves both to unify the buildings parts and as an intuitive orientation feature. Circular roof openings focus halos of sunlight on the ground, serving both to ease wayfinding and to draw attention to key moments in the traveller's journey. This gives the airport a clear identity, strongly rooted in its place, subtly recalling the city's rich and diverse vernacular architecture.

The concept design for the Terminal and Landside area was submitted in December 2013. It includes a 1,300,000 square metres terminal building and 25,000 underground parking spaces as well as hotels and conference facilities. The team has provided design services in the development of 'visual design intent' for key roof and cladding systems, as well as design concepts for apron control towers.



Istanbul New Airport. Photo credit: Nordic / Grimshaw / Haptic

## CEMCO introduces portable industrial tile recycling plant

**Belen, New Mexico** – CEMCO, Inc. has introduced a Portable Industrial Tile Recycling Plant as a zero-waste solution for crushing stockpiles of unused tile into a fine product that's suitable for use as a raw material. The entire system, which is mounted on a custom trailer for convenient hauling, can be fully operational within an hour of arriving at a jobsite. CEMCO works closely with companies to customise plant designs to suit a variety of material recycling applications.

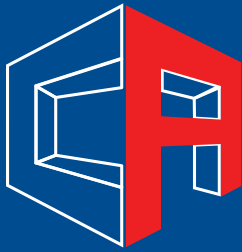
CEMCO designed the Portable Industrial Tile Recycling Plant around its Turbo™ 54 VSI Crusher, an efficient, highly productive vertical shaft impact crusher capable of processing a variety of aggregates and industrial minerals. The Turbo 54 handles material as large as 2 inches and uses centrifugal force with stationary anvils to crush it along natural stress lines into a uniform, cubical, high-quality product. The crusher features a single-drive motor with input horsepower capabilities up to 250.

The closed circuit plant also includes a primary crusher, dust collection system, triple-deck incline vibratory screen and vibratory feeder. A 500-kilowatt generator powers the equipment for ultimate location flexibility.

"This plant is absolutely one-of-a-kind. A customer approached us looking for a portable option for tile recycling. By adapting the plant's components to fit on the relatively compact surface of a single trailer, we eliminated the need to transport the equipment separately and reconfigure the plant at each site," said Jennifer Hise, CEMCO's Vice President. "This saves time and money, and it's a concept we adjust and adapt to suit other companies needing portable solutions for industrial recycling," added Jennifer.



CEMCO Portable Industrial Tile Recycling Plant.



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## Mecanoo wins prestigious architecture prize in Boston

**Delft, The Netherlands** - Mecanoo architecten, led by Francine Houben, has received the Harleston Parker Medal for designing the Bruce C. Bolling Municipal Building. The Harleston Parker Medal is Boston's most prestigious architecture prize. The project, on which Mecanoo collaborated with local firm Sasaki Associates, also won the People's Choice Award.

The Bruce C. Bolling Municipal Building is home to the Boston Public Schools department and includes retail and the Roxbury Innovation Center. Three historic facades have been integrated into the all-sided complex with elegantly curved corners. The different masonry techniques used in the brick facades create rhythmic reliefs which provide intricate, playful shadows.

"The building is the most important catalyst for the revitalization of Roxbury," said Francine Houben, Creative Director of Mecanoo architecten from Delft, the Netherlands. "The building is very well used by the community and was made with a beautiful, time-honoured level of craftsmanship: Boston bricks with a Dutch touch," added Francine.

The Harleston Parker Medal, which has been awarded annually by the Boston Society of Architects since 1921, seeks to recognise "the single most beautiful building" realised in the metropolitan Boston area in the past decade. Commissioned by the City of Boston, the Bolling Building's construction manager was Shawmut Design and Construction.



Photo: © Mecanoo architecten

## RAIC names recipient of the Innovation in Architecture Award

**Ottawa, Canada** – A luminous worship space designed and built with the creative use of computer modeling, measuring, and fabrication software, and custom glass, has won the Royal Architectural Institute of Canada (RAIC) Innovation in Architecture Award for 2017.

The Bahá'í Temple of South America, by Hariri Pontarini Architects of Toronto, is a domed structure set in the foothills of the Andes Mountains outside Santiago, Chile. Nine monumental veils frame an open worship space that expresses a faith of inclusion and accommodates up to 600 visitors.

Fourteen years in the making, it was completed in 2016.

"The successful resolution of a project of such extraordinary ambition establishes a legacy for future projects for the profession," said the three-member jury.

"The assembly of an international and local team of suppliers, consultants and fabricators demonstrate how the profession is increasingly working in complex, globalized environments that demand a sophisticated use of evolving software, communication and fabrication software tools," they wrote.

The Innovation in Architecture award recognises exceptional architectural innovation. Potential areas for innovation include research and development, applied use of new technology and adaptation of existing technology. Innovation can also be demonstrated by new project delivery and construction methods, advanced design processes and fresh approaches to details and materials.

The award will be presented at the RAIC/OAA Festival of Architecture, which takes place in Ottawa May 24 to 27, 2017.

The Bahá'í Temple of South America reflects innovations in materials, technology, and structure. For instance, a search for materials that capture light resulted in the development of two cladding materials:



Photo: © Justin Ford

an interior layer of translucent marble from Portugal, and an exterior layer of cast-glass panels developed, in collaboration with the Canadian glass artist Jeff Goodman, for this project.

To realise the complex curves of the design, the studio looked beyond the traditional three-dimensional visualization software used by the architectural industry, toward modeling platforms geared to fabrication and manufacturing.

Located in an earthquake zone, the structure was designed to withstand extreme earthquakes and wind. The super-structures of the wings are comprised of thousands of individually engineered steel members and nodal connections. Each of the wings rests on concrete columns on seismic bearings, so that in the event of an earthquake, the building can slide to absorb the shock.

Prefabricated pieces for the structure and cladding were produced in multiple countries using advanced fabrication techniques, then shipped and assembled on site. The steel superstructure, for example, was made in Germany using CNC plasma cutting and 5-axis CNC milling machines.

"I am very pleased to receive this award," said partner-in-charge Siamak Hariri, FRAIC. "The brief was for a new type of sacred space, a place of worship that is attractive, open, and inviting to people of all faiths or none at all. Innovation was at the heart of the project. The award is a testimony to the deep collaboration of literally hundreds of people."

The jury:

- Howard Sutcliffe, FRAIC, Principal, Shim-Sutcliffe Architects, Toronto;
- Michael Green, FRAIC, Principal, Michael Green Architecture, Vancouver;
- J. David Bowick, P. Eng., President, Blackwell Structural Engineers, Toronto.

## Juries to evaluate record number of LafargeHolcim Awards projects

**Zurich, Switzerland** – The 5th International LafargeHolcim Awards competition for projects and visions in sustainable construction closed at the end of March 2017. From a total of 5,085 entries by authors in 121 countries, 70 percent are valid and will be examined by independent juries in five world regions. The winners will be announced in the fourth quarter of the year, where seven Main Awards and four Next Generation prizes carrying a purse of USD 330,000 will be presented in each region.

The claim of the LafargeHolcim Awards to be the world's most significant competition in sustainable design is underlined by the diversity of entries from across all regions: Asia Pacific counts for roughly one third of all entries, Europe, Latin America and Middle East Africa provided about 20 percent each, and almost 200 projects were submitted in North America.

The number of valid entries is 40 percent higher this year with 3,574 projects (2,514 in 2014) from 131 countries to be evaluated by the juries according to the location of the project. Although the overall number of submissions in the Awards was over 6,000 in the last two competition cycles, upgrades to the online entry form have significantly reduced duplicates and partial entries. Countries boasting entry numbers in triple figures are Indonesia (469), India (280), China (162), USA (148), France (127), Mexico (126), Nicaragua (124), Egypt (120), Russia (112), Colombia (106), El Salvador (106), and Algeria (102).

In previous Awards competitions, more entries were received in the Main Awards category than in the Next Generation category for students and young professionals. In 2017, the balance has tipped toward authors 18-30 years of age. This confirms the personal engagement in sustainability of the Next Generation of architects, engineers, planners and construction specialists, particularly in Indonesia (334), India (159), Nicaragua (103), Egypt (87) and China (75) where the most submissions in the Next Generation category were made.

The 5th Awards competition is the first one involving



Five independent juries to evaluate projects and visions submitted in the LafargeHolcim Awards competition. Photo: © LafargeHolcim Foundation

countries that joined LafargeHolcim as part of the merger of the two entities to form the world's leading building materials and solutions company. This boosted the response to the competition, especially in Middle East Africa with countries contributing far more entries than ever before. Thanks to the support of the Partner Universities, Ambassadors and LafargeHolcim Coordinators of the Awards, the competition also fostered excellent results in other regions: with pronounced growth in entries from El Salvador, Poland, Slovenia, and the United Kingdom. A considerable increase in submissions also occurred in the Czech Republic, Ecuador, France, Germany, Indonesia, the Netherlands, Nicaragua, Morocco, Russia, Serbia, Spain, and Switzerland.

The LafargeHolcim Awards promotes and rewards sustainability in construction since 2003 and is an initiative of LafargeHolcim – providing innovative products and building solutions with a clear commitment to social and environmental sustainability.

## thyssenkrupp wins Gold for the MULTI elevator at the 2017 Edison Awards

**Essen, Germany** – thyssenkrupp took top honors at the 2017 Edison Awards in New York: The company received the Gold award in the category Transportation and Logistic.

The Edison Awards™ is an annual competition honouring excellence in new product and service development, marketing, human-centered design and innovation. The award honors the ground-breaking technology and concept of MULTI which harnesses the power of linear motor technology to revolutionise urban mobility by moving multiple elevator cars in a single shaft both vertically and horizontally.

“With MULTI, we are heralding the end of the 160-year reign of the rope-dependent elevator,” said Markus Jetter, Head of Product Development at thyssenkrupp Elevator and the chief engineer of the MULTI.

“We are thrilled to receive the highest honour with a Gold award for this technological innovation that brings a completely new dimension to urban mobility and marks the beginning of a new era for the elevator industry,” added Mr Jetter.

While cities are getting bigger, so do skyscrapers. Buildings are becoming like vertical cities, and they need a flexible transport system similar to a metro. Efficient mobility in buildings is no longer a luxury, but an absolute necessity, making MULTI one of the most significant innovations in urban mobility. Using the power of linear motor technology, MULTI breaks the tradition of rope-driven elevators, opening the door to design possibilities in all directions. It combines groundbreaking technology with a simple operational concept and convenience of passenger use.

MULTI has been designed to increase passenger shaft capacity by 50 percent. It also requires smaller shafts than conventional elevators, and can increase a building's usable area by up to 25 percent. The increase in efficiency also translates into a lower requirement for escalators and additional elevator shafts, resulting in significant construction cost savings as well as a multiplication of rent revenues from increased usable space.



Markus Jetter, Head of Product Development at thyssenkrupp Elevator and the chief engineer of the MULTI, received the 2017 Edison Awards in New York. Photo: © thyssenkrupp

## 2017 Moriyma RAIC International Prize announces shortlisted projects

**Ottawa, Canada** – The Royal Architectural Institute of Canada (RAIC) is pleased to announce the shortlisted projects for the 2017 Moriyma RAIC International Prize.

The four shortlisted projects are located in Tokyo, Japan; Copenhagen, Denmark; Melbourne, Australia; and the village of Upper Kingsburg in Nova Scotia, Canada.

The Prize, which was established in 2014 by Canadian architect Raymond Moriyma along with the RAIC and the RAIC Foundation, consists of a monetary award of CAD \$100,000 and a handcrafted sculpture designed by Canadian designer Wei Yew. The Prize celebrates a single work of architecture that is judged to be transformative within its societal context and reflects Moriyma's conviction that great architecture transforms society by promoting



8 House, Copenhagen, Denmark. Photo: © Dragor Luftto



Melbourne School of Design, University of Melbourne, Melbourne, Australia. Photo: © Peter Bennetts



The Village Architect. Shobac Campus, Upper Kingsburg, Nova Scotia, Canada. Photo: © Brian MacKay-Lyons

social justice and humanistic values of respect and inclusiveness.

The Prize, awarded every two years, is open to all architects, irrespective of nationality and location. The winner is selected in an open, juried competition. This year's jury of experts has considered a range of criteria in the evaluation of submissions, which were received from 17 countries across four continents, and will visit the shortlisted projects.

The winner of the 2017 Prize will be announced on September 19, 2017, at the RAIC's gala event at The Carlu, a historic event space in Toronto and one of the city's best examples of Art Moderne architecture. In addition to the main CAD \$100,000 prize, three scholarships of CAD \$5,000 each will be awarded to three students of Canadian schools of architecture on the basis of a written essay. "I'm hoping the architects are all trying to raise the life of the community," said Raymond Moriyama, FRAIC. "The Prize is aimed at encouraging architects to be service-oriented rather than just focusing on producing something that looks good in magazines. It's to serve the community and humanity," he added.

"These projects celebrate human life and shape activity," said RAIC President Ewa Bieniecka, FIRAC. "They embody innovation, contribute to how we experience space, and explore how spaces allow opportunities for freedom. The four shortlisted projects demonstrate how architecture is generous and gives back to the community. These works have a strong sense of place and connect to their surrounding landscape," added Bieniecka.

"The jury was very encouraged to see an increased international interest from a total of 17 countries and four continents," said Barry Johns, FRAIC, Jury Chair and a Trustee of the RAIC Foundation. "It clearly shows that the Prize is growing in stature around the world, and that is very gratifying. Moreover, the general project submissions demonstrated a high level of engagement with the demanding aims and objectives found in the terms of reference for this unique award, and the four shortlisted projects are extraordinary in this regard," added Johns.



Fuji Kindergarten, Tokyo, Japan. Photo: © Katsuhisa Kida

# DO YOU have news?

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The screenshot shows a magazine page with the following content:

- schmidt hammer lassen architects wins competition for major new urban development in Oslo, Norway**
- Plans submitted for LMU's Coppens Hill development**
- SICIS opens a new flagship store in London**

## Winners of the inaugural Singapore Interior Designer Awards (SIDA) unveiled

*Singapore interior designers shine and bag nine out of the 61 awards presented at the gala night.*

**Singapore** – To celebrate the launch of the inaugural Singapore Interior Designer Awards (SIDA), the Society of Interior Designers Singapore (SIDS) held a Gala Night & Awards Presentation on 8 March 2017 at the Ritz-Carlton, Millenia Singapore.

SIDA, which was launched to recognise and honour design excellence in the global interior design industry, was open to all interior designers, space designers and architects who believe in creating better spaces for mankind through sensible, responsible, and innovative design solutions. The awards were divided into two main sectors: Completed Works and Proposed Works. Each sector has 12 categories which include landed, non-landed and show flats for residential developments; public institutions & transport, retail, hospitality, exhibition, food & beverages, installation as well as themes that reflect Rest & Relax and Work.

A total of 61 winners were selected from more than 300 entries received from China, Japan, Taiwan and Southeast Asia. Singapore bagged nine out of the 61 awards or 15 percent of all the awards handed out during the gala night.

Commenting on the SIDA award presentation and gala night, Mr Keat Ong, President of SIDS, said: "We are delighted with the strong response to our inaugural



SIDS President, Keat Ong, delivers the opening address for the SIDA Gala Night & Awards. Photo: © SIDS

awards. And we are very pleased that Singapore interior designers have won awards tonight; despite stiff competition from so many outstanding entries from other countries. This demonstrates that Singapore's interior design industry has come of age and we have good talent comparable to some of the world's best designers."

He added: "The success of the SIDA awards also underscores Singapore's

rising stature in the field of interior design. The SIDA award aims to reach out to international interior design communities through the creation of a common platform to highlight their design abilities. In doing so we hope to foster a stronger global interior design community."

Local firm Pan Yi Cheng & team took home the Gold SIDA for best Retail (Completed Works) for their work on XTRA'S Herman Miller Shop-In-Shop Fabricwood at XTRA's Marina Square Flagship Store. The winning entry featured an innovative plywood installation – the centerpiece that frames the interior of XTRA's Marina Square flagship store. Dubbed, 'Fabricwood', this installation stretches across the store like a 20 metres x 7 metres sized billowing sail; delineating the boundaries of the café and showroom. It highlights the structural and material innovation of molded plywood demonstrating properties such as flexibility and elegance.

Other Gold SIDA winners include China's Yang Bangsheng & Associates Group; Taiwan's Three Design Group; Japan's ODS and Hong Kong's Panorama, who took home the Gold SIDAs for Hospitality, Residential Landed, Exhibition and Public Institutions respectively.



SIDA Gala Night & Awards guests dine and mingle at the Grand Ballroom of The Ritz-Carlton, Singapore. Photo: © SIDS



SIDS Council members take the stage as they seal the various mementos of SIDS into a time capsule. Photo: © SIDS

Some of the world's top design icons were invited to be on the Award's judging panel. They include:

- Lim Hong Lian, Founder / Principal Partner, LTW Designworks Pte Ltd, President, Asia Pacific Hotel Design Association (APHDA)
- Constance Ann, Principal Designer / Director, Constann Design Pte Ltd, Asia Regional Advisor, International Federation of Interior architects/ designers (IFI)
- Tai Lee Siang, Chair, World Green Building Council, President, Design Business Chamber, Singapore (DBCS)
- Peter Tay, Founder / Design Director, Studio Peter Tay
- Khoo Peng Beng, Director, Arc Studio Architecture + Urbanism Pte Ltd
- Isabelle Miaja, Managing Director, Miaja Design Pte Ltd
- Colin Seah, Founder / Director, Ministry of Design Pte Ltd
- Nathan Yong, Founder, Nathan Yong Design Pte Ltd
- Steve Leung, Founder / Chairman, Steve Leung Designers Ltd, President-elect, International Federation of Interior Architects/ Designers (IFI)
- Lyndon Neri, Founding Partner, Neri & Hu Design and Research Office
- Sherman Lin, Creative Director, Newsdays Design Organization, Vice President, China Institute of Interior Design (CIID)
- Dalia Gallico, President, Design Faculty, University San Raffaele Roma, Italy, Director, Artlab, Strategic Laboratory for Exhibitions at Royal Palace (Milan), President, Signumlab Design Association
- Carlos Alberto dos Santos Marreiros, Professional architect, Partner and Director of MARREIROS, Architects, Engineers & Town planners Ltd. and East & West Projects & Design, Ltd
- Jooyun Kim, Dean, Graduate School of Design, Hongik University, Korea, President, Korean Institute of Spatial Design
- Shu-Chang Kung, Associate Professor / Director, Graduate Institute of Architecture, NCTU, Taiwan, Chairman and CSID
- Haim Dotan, Founder / CEO, Haim Dotan Ltd. Architects & Urban Designers, Director, Advanced Ecological Architecture Design BA, SIVA/ Fudan University, China

For the full list of winners, visit [www.sid-singapore.org](http://www.sid-singapore.org).

## EmiratesGBC launches online 'Green Building Tooltips' to promote sustainable best practices

**Dubai, UAE** – Emirates Green Building Council (EmiratesGBC), an independent forum aimed at conserving the environment by strengthening and promoting green building practices, has launched its brand-new initiative to encourage green building best practices, the 'Green Building Tooltips,' freely accessible online at [www.emiratesgbc.org](http://www.emiratesgbc.org). The Tooltips were launched on the occasion of the United Nation's World Environment Day, marked annually on June 5.

A rich online resource on best practices that will help the construction industry and community make their built environments more sustainable, the EmiratesGBC Green Building Tooltips aim to provide relevant information on green buildings for an audience of varying levels of technical capacity. The interactive designs cover three different building typologies, showcasing a home, school and office building. The initiative is powered by BASF and Legrand, EmiratesGBC corporate members, underlining their commitment to promoting sustainability.

Saeed Al Abbar, Chairman of Emirates Green Building Council, said: "The new EmiratesGBC Green Building Tooltips webpage is the first and only one of its kind initiative in the region that provides valuable guidance and insights for building users and the industry to implement sustainability best practices. The free-to-access resources brings incredible knowledge on how to promote energy and water efficiency in built environments. We are thankful to BASF and Legrand who have eagerly supported this initiative and to the experts who contributed to this resource base."

Effortless to navigate and access, the EmiratesGBC Green Building Tooltips will not only help developers who are currently building new projects but also those who seek to retrofit their buildings, as well as members of the public who wish to pursue a greener lifestyle. The best practices recommended in the Tooltips are easy to apply and will help make a tangible difference in promoting a greener environment. In addition to achieving savings on utility bills, the tips suggested through the online resource will help reduce the carbon footprint by making built environments more sustainable.

The EmiratesGBC Green Building Tooltips will be a valuable referral place for home-owners and developers, as well as for commercial building owners and tenants, architects, interior designers, planners and for educational institutions and healthcare providers. "With a tremendous focus today by schools, hospitals, hotels, offices and home-owners in reducing their carbon footprint and promoting green building best practices, the EmiratesGBC Green Building Tooltips will serve as a ready reckoner on all information related to green buildings," added Al Abbar.

The Tooltips cover how to enhance energy and water use efficiency, offering tips on how to keep the living environment cool, despite the harsh outside temperatures, and which areas in homes, schools and office premises can be made greener. Promoting direct action through its do-it-yourself approach, the Tooltips promote sustainability as a culture and way of living of the people.

John Frijns, Vice President Middle East, BASF, said: "The Green Building Tooltips by EmiratesGBC is a significant initiative that will further drive the ongoing activities by various industry stakeholders and the public in promoting sustainable built environments.

As a leading provider of raw materials, systems and finish products to the construction industry, BASF delivers economically and ecologically sound solutions that facilitate high quality construction and improve building life expectancy. Through our support of the Tooltips, we are further underlining our commitment to the green vision of the UAE and the region."

Amelie Zegmout, General Manager of Legrand, said: "We are delighted to partner with EmiratesGBC on its Green Building Tooltips, which give practical solutions to promote the energy and water use efficiency of buildings – both existing and under development. Legrand is committed to enhancing the sustainability of our built environments, and through this initiative, we want to further share our expertise with all stakeholders, and thereby contribute to a greener future for our coming generations."



Office Interior perspective of Green Building Tooltips.  
Photo: © Emirates Green Building Council



House Exterior perspective of Green Building Tooltips.  
Photo: © Emirates Green Building Council



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## Nanyang Primary School and Kindergarten Extension

The new extension to the existing Nanyang Primary School and Kindergarten in Singapore is designed around a large 'internalised' public Valley, open to the sky and the elements, but facing away from the residential streets surrounding the school. The design objective was to place the school's communal space at the heart of studio505's and LT&T's design.

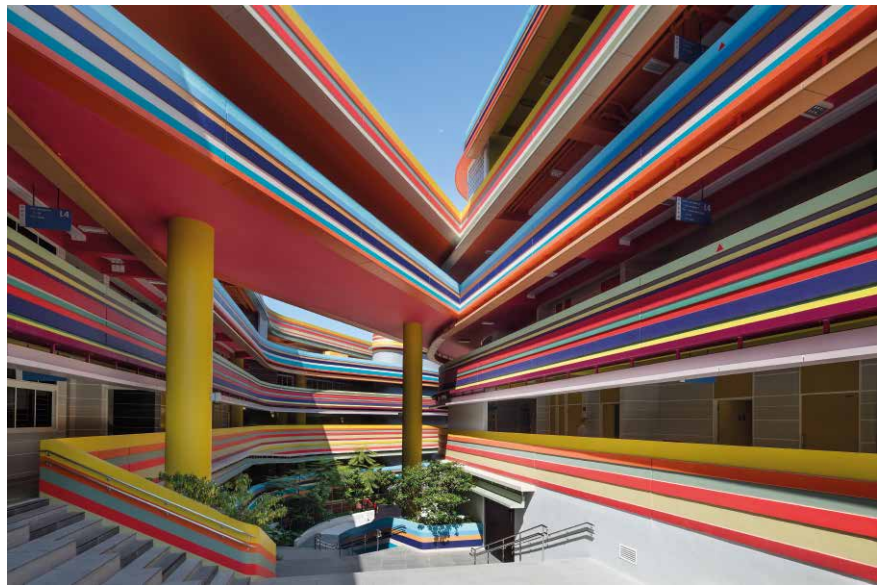
Part of the previously existing Nanyang Primary School's campus, namely the hilltop buildings and the Coronation Road entrance buildings had been reserved for demolition under the brief as they no longer provided an environment up to modern teaching standards. Those previous buildings, in particular the large kindergarten building had not been positioned and designed in sync with the natural sloping topography of the site from street level up to the hilltop. Instead it was located parallel to the street and perpendicular to the direction of the slope, thus creating a 'wall-like', uninviting barrier when seen from the entrance. Behind this building, the steep slopes were exposed or bridged over, creating unusable and unsightly space pockets that were difficult to integrate from a user perspective.

These unusable spaces between the former large scale buildings, out of proportion and character with a child's world, created the starting point of our thinking for the new design. Very quickly it became clear that the new concept will have to be centered on a generous, open and usable communal space that draws advantages from the site's inherent topography.

Studio505 proposed aligning the new building volumes parallel to the direction of the hilltop slope and perpendicular to Coronation Road, creating a large inviting central valley. This Valley is the key space in the extension, and serves as both the entry to the site and the main orientation device. The Valley draws the visitor gently up the slope, through the heart of the school at the top of the hill and into the large open courtyard of King's Road campus.

When entering the Valley at Coronation Street level the visitor cannot see the Valley's entire extent as it curves around a strategically placed bend at its geographic centre where a large landscaped staircase is located. The staircase provides easy access to the 'hilltop' and the classrooms whilst integrating a small amphitheatre space for outdoor group activities.

The Valley's landscape gesture is modelled on the underlying contours of the site. Vegetation in the valley is planted in the direction of its length, but in its overall extent tries not to overwhelm the intended civic character of the main outdoor space.





The horizontal extent of the valley is countered by the verticality of the stair and bold yellow columns supporting the link bridges that fly overhead and facilitate easy connections between the two parallel wings of classrooms.

Close to the Coronation St entrance the design team located the new kindergarten and indoor sports facilities. Their volumes are fully integrated into the overall composition of the open central valley with interior facilities flanking it either side. A covered outdoor play area for the kindergarten is created via a large, 2 storey high 'indent' into the valley's side wall. Studio505 felt it important that children of all age groups, from pre-nursery to the end of primary school, should be empowered to claim the Valley as their own. As these children progress through the different stages of their school life, they will become active participants and custodians of the school's and their own public space.

All circulation is open to the air and orientated towards the 'internal', communal valley. The walkways are covered and large suspended, double layer shelves provide additional shading as well as protection against wind driven rain.

All classrooms face away from the central Valley to the quieter residential areas. The inside of the classrooms are typically calm in appearance with white walls and ceilings letting the individual minds focus during class time. The classroom door is the only internal coloured element, leading children out into the rich and dream-like external world of seemingly endless coloured horizontal stripes and pathways of life.

Technically this is achieved through the low-cost budget application of emulsion paint on profiled precast concrete spandrels, together with the abovementioned coloured aluminium shading shelves.

But for the students, according to Nanyang Primary School's principal Lee Hui Feng 'the future is an ever-changing kaleidoscope of lives amidst globalisation – full of ups and downs, twists and turns'.

The architects' aim was to create a highly inspirational communal space, designed to showcase active, uninhibited free thinking and bringing joy and excitement equally to children and to the child within the teacher.

A space from which everywhere is possible...

## PROJECT DATA

**Project:** Nanyang Primary School Extension

**Location:** 52 King's Road, Singapore 268097

**Client:** Ministry of Education Singapore & Nanyang Primary School

**Design Architect:** studio505 Pty Ltd (Australia)  
studio505 practised from 2003 through to the end of 2015, and worked locally and around the world to successfully complete ground breaking and world leading projects both in Australia and South East Asia. In 2016, Studio505 stopped taking on new business and saw the creation of two new independent practices founded on its previous success. The new businesses, each sharing the combined workbook and history of studio505, have forged ahead as independent endeavours, with Dylan Brady conducting the team at Decibel Architecture ([www.db-a.co](http://www.db-a.co)) and Dirk Zimmermann as a Director of Himmelzimmer ([www.himmelzimmer.com](http://www.himmelzimmer.com)).

**Local Executive Architect:** LT&T Avid Architects Pte Ltd

**Structural Engineer:** Ecas Ej Consultants Pte Ltd

**Mechanical & Electrical Engineer:** William Ng Consultants Pte Ltd

**Landscape Consultant:** Cicada Pte Ltd

**Project Manager:** PM Link Pte Ltd

**Quantity Surveyor:** OTN Building Cost Consultants Pte Ltd

**Builder:** Guan Ho Construction Co. Pte Ltd

**Construction Costs:** Awarded construction cost of S\$36,999,000

**Building Size:** 17,785.36 square metres new GFA for Nanyang Extension at Hilltop Campus and Campus 2

**Site Area:** 9,487.4 square metres (for Hilltop campus and Campus 2 only)

**Plot/Utilisation Ratio:** 1.87 (for Hilltop campus and Campus 2 only)

**Number of classrooms:** 30 Classroom for Primary + 9 Classroom for Kindergarten

**Number of gyms and other specialist rooms:** 20 Special Rooms + 1 Gym + 1 Indoor Sports Hall + 1 Activity Deck with basketball Court + 1 Covered Car Park

**Completion Date:** March 2015

**Photographer:** © John Gollings



# INTERNATIONAL SKYRISE GREENERY CONFERENCE

**9 & 10 November 2017**

Singapore EXPO Convention and Exhibition Centre

The breadth and depth of the skyrise greenery movement have grown over time across cities. Elevated building platforms, gaps, corners, roofs and even underground spaces have become new planes for land-scarce cities like Singapore. With this evolving symbiotic relationship between cities and nature, a diversity of landscape typologies has emerged to meet a range of community objectives.

The **fourth edition of the International Skyrise Greenery Conference (ISGC)** continues to deepen the conversation of skyrise greenery. It will focus on the topics of resilience, new levels of greening and integrating social needs into urban infrastructure. The conference also offers an open platform to draw lessons from the challenges nature presents – shaping intents, outcomes and even the bottom line of greening projects. Scheduled for **9 & 10 November** at the Singapore EXPO Convention and Exhibition Centre, ISGC 2017 is the key skyrise greenery conference that you do not want to miss!

ISGC 2017 will be held alongside **GreenUrbanScape Asia 2017**, an international exhibition on landscape, leisure, greenery design, construction and technology, to be held on **9 – 11 November 2017**.

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Supporting Organisation	Discounted rates applicable*	
Student Pass	SGD 350	
One-Day Pass	SGD 500	

*Refer below for list of supporting organisations. Most updated list will be published in our website.*

## Contact the International Skyrise Greenery Conference 2017 Team

**Registration** | **Jasmine Lee, Conference Management**  
+65 6403 2538 (DID) • +65 9855 2025 (Mobile)  
jasmine.lee@singex.com

**Supporting Associations** | **Wong Si Ying, Association Management**  
+65 6403 2535 (DID) • +65 9773 2425 (Mobile)  
siying.wong@singex.com

**Media** | **Wu Jiayi, Manager**  
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Photo: © University of Central Asia

## First University of Central Asia campus opens in Naryn

*The First University of Central Asia campus, designed by AECOM, has opened in the mountain community of Naryn, Kyrgyz Republic.*

The first phase of a major international project to deliver state-of-the-art university campuses in Central Asian mountain communities was celebrated on 19 October 2016 with the inauguration of the University of Central Asia (UCA) Campus in Naryn, Kyrgyz Republic. The occasion was commemorated by senior leadership of the Kyrgyz Government and His Highness the Aga Khan.

The first fully residential undergraduate university in the remote region, UCA was established to increase access to an internationally recognised standard of higher education in Central Asia and drive development in the region's mountain societies. It is part of the Aga Khan Development Network (AKDN).

AECOM has been involved with UCA since 2012, delivering a range of multidisciplinary services including masterplanning, landscape design, civil, structural and MEP engineering, as well as specialist disciplines such as geotechnical, hydrogeology, transportation, security, acoustics, fire engineering, IT/audio visual and lighting design services. Award-winning Japanese architect Arata Isozaki



Photo: © University of Central Asia

developed the original design for UCA's three planned campuses in Naryn, Kyrgyz Republic, Khorog, Tajikistan, and Tekeli, Kazakhstan, under the University's initial single-phase construction plan. The University has since transitioned to a multi-phase construction approach to allow for greater flexibility and minimise the need for retrofitting as the campus grows.

Phase one of the project includes a new academic building with a library, dining hall, laboratories, classrooms and faculty housing, as well as student dormitories. AECOM engaged Gensler for the architectural and interior design and Serbian consultancy Dizajn Arhitektura for the detailed design and local permitting services.

Design and construction of the Naryn Campus presented a number of technical challenges that required innovative engineering solutions. The campus is located in a highly seismic area, with several active fault lines running through the site.

AECOM reworked the project's original masterplan, referring to detailed geological information and seismic hazard maps. The winter's harsh sub-zero climate also posed a challenge to the construction team, particularly when forming the concrete structure of the building.

Naryn is a remote city separated from the rest of the Kyrgyz Republic by high mountain ranges. Situated along the historic Silk Road, it is a four-hour drive from the country's capital city of Bishkek and has limited infrastructure and utilities. During the winter months, Naryn's residents resort to burning coal or dried animal waste for heat. Given Naryn's extreme temperatures, which range from below -30 degrees Celsius in the winter months to higher than 30 degrees Celsius in the summer, providing a secure and sustainable supply of energy was a major challenge. The AECOM team developed an innovative ground source



Photo: © University of Central Asia

heating and cooling system, which uses the aquifer beneath the campus as a low-grade energy source. The system provides enough energy to heat and cool the academic building, while also providing hot water to the entire campus. The heating and cooling system significantly reduces the facility's impact on the local electrical network.

"This project is about much more than creating a world-class university campus; it is about giving people from isolated mountain communities their first real opportunity to access an international standard of university education at a residential campus. The remoteness and harsh temperatures of Naryn have necessitated the development of robust engineering solutions, which provide the university's students and staff with a safe, resilient environment in which to learn," said Michael Stimpson, Associate Director of Building Engineering at AECOM.

Engaging with the surrounding community was an important aspect of the project. AECOM's team visited local schools in Naryn to give presentations to students on subjects related to the evolving design of the campus, such as civil and structural engineering and landscape design. This initiative is part of UCA's broader commitment to boosting local economies and developing host mountain towns into vibrant university communities.

UCA community projects include providing a secure 24-hour water supply for a nearby village, constructing a three-kilometre diversion road and paving an access road, laying new pedestrian footpaths, planting trees, installing outdoor lighting and refurbishing faculty and visitor accommodation in Naryn Town. AKDN sister agencies also opened brand new medical and diagnostic facilities and rehabilitated a park in the centre of town.

"At UCA we have approached the construction of our physical campuses in the same spirit in which we are building our institution: by engaging expert partners, adhering to the highest international standards and remaining faithful to a bold, perhaps even audacious founding vision," explained Grant Robertson, Director of Construction and Facilities at the University of Central Asia.

"AECOM's creative solutions and careful consideration of how members of the University community will live, learn and work in this space helped ensure that the inaugural campus reflects both the vision of Isosaki and the core values of UCA," said Mr Robertson.

Maja Nesdale, lead architect at Gensler, added: "Our approach was to utilise both nature and technology in the designs to create highly immersive learning and student environments coupled with modest and comfortable living areas. The resulting



Photo: © University of Central Asia

designs for the academic areas of the first phase support many modes of learning and allow for incidental interactions between both student and staff, harnessing the latest trends in the world of education."

The secular, internationally chartered and not-for-profit University is a partnership between the governments of Kazakhstan, the Kyrgyz Republic and Tajikistan and the Aga Khan Development Network (AKDN). Founded in 2000, UCA's mission is to foster socio-economic development in central Asia, particularly in its mountain societies.

The facility is the first of three UCA undergraduate campuses to open in the region. The campus in Khorog, Tajikistan is scheduled to open in 2017, followed by Tekeli, Kazakhstan, anticipated in 2019. The University welcomed 71 undergraduates from the University's three founding countries and the broader catchment area of Afghanistan and Pakistan to Naryn on 5 September 2016.



Photo: © University of Central Asia

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## Raffles American School Campus (K-12 boarding school)

**S**et among lush rolling hills in the fast-growing city of Iskandar, Malaysia, the new Raffles American School campus will accommodate 2,000 pre-kindergarten through 12th grade students.

The 19-hectare school is envisioned as a holistic learning environment that is seamlessly interwoven into its beautiful setting. Raffles American School is a learning community that empowers students to achieve their academic and life potential. The school facilitates student success through collaboration with parents, and a balanced focus on intellectual, emotional, physical, and social progress. RAS serves students Pre-K through 12th grade and operates with a philosophy and profound belief that all students can learn at a high academic standard. Its multinational student body creates a learning environment rich in diversity.

Students at RAS excel both in and out of the classroom. In addition to receiving a world-class education, RAS students can utilise its state-of-the-art facilities, located throughout our sprawling 46-acre campus. Designed by world-renowned design firm Skidmore, Owings & Merrill LLP (SOM), RAS encompasses the institution's progressive educational philosophy. RAS pedagogy recognises that students learn through a wide range of cognitive pathways. The academic village has been designed to encourage activity and interaction in a variety of learning environments through the use of covered walkways, bridges, shading louvres, and a checkerboard arrangement of modular classroom buildings and educational courtyards. The academic village is surrounded by five supporting facilities: Athletics, Performing Arts, Library, Cafeteria, and Administration.





Given the slope of the site, SOM's scheme proposes three main "terraces", with each terrace occupied by a cluster of grade levels. Programming includes classrooms, labs, art studios, a performing arts center, a library, and student housing.

The plan also features a host of outdoor athletic amenities: swimming pools, ball courts, playing fields, and a 400-metre track. Sustainability figures heavily into the design. Buildings will feature passive-cooling techniques such as cross-ventilation and the stack effect, in addition to exterior shading devices. The plan also calls for locally sourced materials and the utilisation of local construction methods.

#### PROJECT DATA

**Project:** Raffles American School Campus (K-12 boarding school)

**Location:** Iskandar, Malaysia

**Client:** Raffles Education Corporation

**Architect:** Skidmore, Owings & Merrill LLP (SOM)

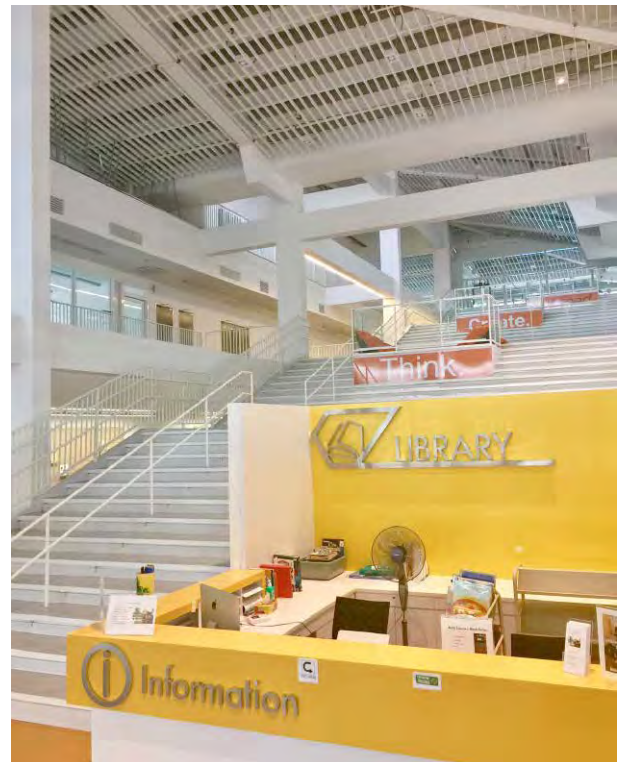
**Service:** Architecture, Urban Design + Planning

**Site area:** 18.5 hectares

**Project area:** 66,000 square meters

**Completion:** 2013

**Photos:** © Raffles American School



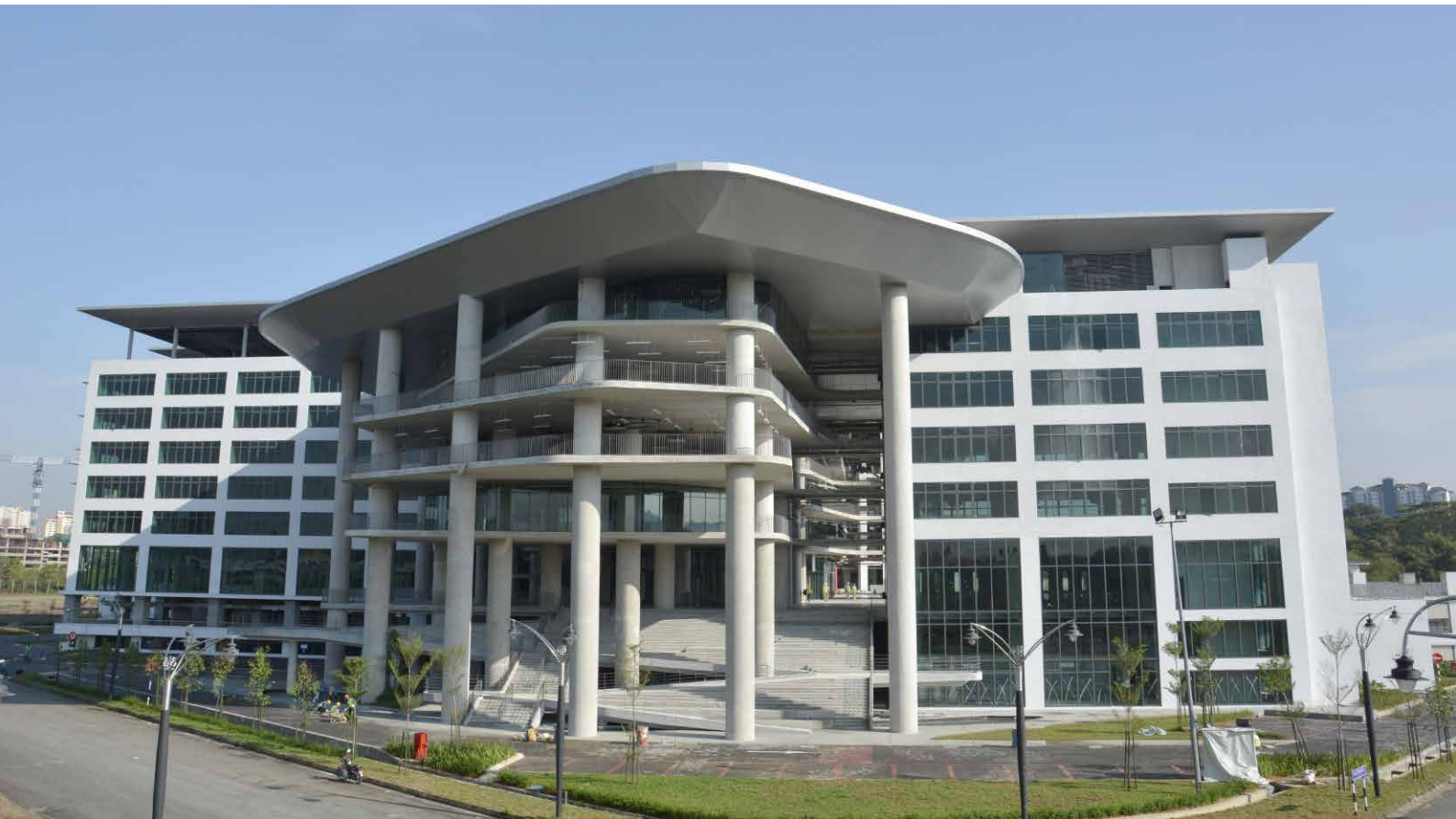


Photo: © APU

## APU opens state-of-the-art campus in Malaysia

**A**sia Pacific University of Technology & Innovation (APU)'s new ultra-modern university campus in Technology Park Malaysia (TPM), Kuala Lumpur is now completed & operational.

TPM is the ideal location for this new and contemporary Campus due to its strong positioning as Malaysia's primary hub for leading-edge and high-tech developments in a wide variety of areas such as Information and Communication Technology, Biotechnology, Microelectronics, Engineering and Broadcasting. TPM is also located in one of the most rapidly developing areas in Kuala Lumpur, and is well served and accessible through major highways, LRT and other forms of public transportation.

Located close to APU's present campus, a distinctive and iconic feature of the new state-of-the-art campus is its long central "Spine" stretching from the main entrance all the way to the far end of the campus, which provides connectivity to the teaching centres, the courtyards, central atrium and living spaces. The Spine, which is a massive seven-storey structure, also provides shade and protection from the heat and rain as students and staff move from between the various facilities within the campus.

The central atrium space forms the central learning and social hub of the campus with large communal spaces, multipurpose hall and various other facilities like the main library, technology & engineering labs, study lounges and cooperative learning discussion rooms. Students will also get enjoy a lifestyle experience through the sports and recreation facilities such as futsal & basketball courts, fitness centre as well as basement car parks on campus, among many other exciting facilities.



Photo: © APU



Photo: © APU

Student accommodation is a critical component of a campus style university and the residential blocks, whilst independently accessed from the main university teaching zones, are still very much integrated into the development and terminate the spine at the Northwest quadrant of the site.

APU's new campus is setting a benchmark for design excellence among Malaysian Universities, combining an eco-friendly campus with a dynamic blend of technology and innovation to enable professional learning. It is a magnificent teaching and learning space for APU's students and staff designed by their award-winning architects & consultants.



Photo: © APU



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Photo: © APU

# University of Reading opens new campus in EduCity, Iskandar



Photo: © University of Reading Malaysia

**T**he University of Reading Malaysia (UoRM) and Henley Business School Malaysia was officially inaugurated 25 February 2016 by The British High Commissioner to Malaysia, Vicki Treadell CMG, MVO.

More than 400 guests, staff and students attended the formal opening ceremony in the University's state-of-the-art purpose-built complex in EduCity, Iskandar - part of an initial £13m (80m MYR) investment from Reading to date.

UoRM is the University of Reading's first multidisciplinary overseas campus and its fifth campus overall, alongside the Whiteknights and London Road campuses in Reading, and the Henley Business School sites at Greenlands and Johannesburg.

UoRM, together with Henley Business School, offers courses at foundation, undergraduate and postgraduate level in subjects including business, finance, accounting, psychology, law, real estate, quantity surveying and pharmacy.

The new facilities will educate up to 3,000 students, with ambitions to extend beyond the current building into new space at EduCity.

The vibrant student village at EduCity offers halls of residence, catering, and excellent sports facilities making it one of the most advanced university sites in South East Asia.



Photo: © University of Reading Malaysia



Photo: © University of Reading Malaysia



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Photo: © University of Reading Malaysia

University of Reading Vice-Chancellor, Sir David Bell said: "The launch of the University of Reading Malaysia in 2016 was one of the most important milestones in our 90 years as a university and one of my proudest days in my time as Vice-Chancellor. Our long-term investment in Malaysia shows our unreserved support for, and commitment to our education and research, our staff and students from wherever in the world they come."

The University of Reading Malaysia recently celebrated its first anniversary on 2 March 2017.



Photo: © University of Reading Malaysia

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# LULU'S LOUNGE — A NEW CLASS OF NIGHT LIFE



Joshua and Sarissa Schwartz, co-founders of SJS Group.



**S**JS Group and The Privé Group are delighted to unveil LuLu's Lounge, the latest innovation on Singapore's nightlife scene.

A departure from the mega-club experience, strobe lights and strident sound systems, LuLu's Lounge brings guests a holistic and curated nightlife experience – an energetic late night lounge with a dance floor, private patio and a dynamic programme of entertainment.

Named after its fictional owner, LuLu's projects all the characteristics of a 1960's New York back alley club. A quirky and outlandish design brings to life some of the more intriguing aspects of LuLu's imagined Bronx upbringing - from flickering neon signages to lipstick stained napkins. LuLu has her stamp on everything, creating a home-like and eclectic hot spot in one of Singapore's prime locations.

A destination for Singapore's discerning partygoers, the venue will open from 9pm through to 6am Wednesdays through Saturdays. The lounge offers playful twists on classic cocktails, a thoughtful hand-picked wine list, and an elegant presentation of bottle service. A garden patio provides a slightly more relaxed, al-fresco experience with dim-lit fairy lights and vintage-modern furnishings – a hideaway for guests to wind down into the evening. Carefully curated and subtle tweaks to the venue's décor and entertainment throughout the night create an evolving, unexpected journey into the early hours of the morning.

Joshua and Sarissa Schwartz, co-founders of SJS Group, say of the venture: 'LuLu's Lounge has been a vision of our imagination for some time, and we've been eagerly anticipating introducing the concept to the discerning Singapore nightlife scene. We wanted to create a lively lounge where guests can chill, chat and dance – all in the same venue.'

LuLu's will bring retro DJ performances from international names, live acoustics, animated entertainment and personal service and hospitality.

Since arriving in Singapore in 2011, Joshua and Sarissa Schwartz, co-founders of the SJS Group, have become two of the major and much loved players on the region's nightlife scene, having lead the illustrious Bang Bang and Employees Only concepts to fame.



# via. unveils new design for ArtisTree, Hong Kong's new event space

ArtisTree foyer during night time. Photo: © via.

**A**ward-winning Hong Kong architecture and design studio, via., has unveiled its design for the all-new ArtisTree, a multipurpose event space by Swire Properties in Taikoo Place. Fitted with professional stage lighting and audio-visual technology, ArtisTree is designed as a platform for new ideas and innovative productions.

Officially relocating from Cornwall House to Cambridge House in June 2017, ArtisTree's move is part of Swire Properties' Taikoo Place redevelopment project. The newly-designed space will be in a highly-visible location and will offer easier public access.

Architecture and interior design studio via. was commissioned to create the multi-purpose 7,000 square feet space, designed to house a variety of art and performance events featuring young talents and productions from international art groups. Explained Frank Leung, via.'s Founder and Principal: "The venue is designed to meet the technical provisions for a range of purposes, from art exhibitions and dance performances to fashion events and concerts." Aside from making effective use of the space, the via. design team had to consider ceiling height requirements for different types of activities as well as create a functional backstage area.

Working in collaboration with Swire Properties, via. built a design based around movement, creative energy and resonance. These abstract ideas were reinterpreted into design elements using a combination of materials, lighting and textures.

The movement concept is evident in the sculptural, striking entrance. The gates, crafted from wavy aluminium profiles wrapped in timber veneer, reveal an undulating pattern that evoke gentle water ripples and symbolise reverberating sound waves and rhythmic movement. When the gates are open, the rolling metal grilles frame the entrance and draw visitors to the central performance space.

The main performance area is distinguished by a unique feature wall comprising almost 1,000 hollow metallic squares. Each one is stacked upon another at a slightly rotated angle to create a stunning visual effect and reinforce the sense of energy, reverberation and movement. Spanning 18 metres in length and 6 metres in height, these 'open boxes' evoke the fluid motions of a stage performance. During evening performances, these sculptural forms are illuminated to signal a show in progress while also drawing the attention of passersby.



ArtisTree entrance gate closed. Photo: © via.



ArtisTree entrance gate opened. Photo: © via.

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# Thrudesign Wood DIY Workshop in Beijing

Mapei has used ULTRATOP to complete a spectacular DIY Workshop in China.

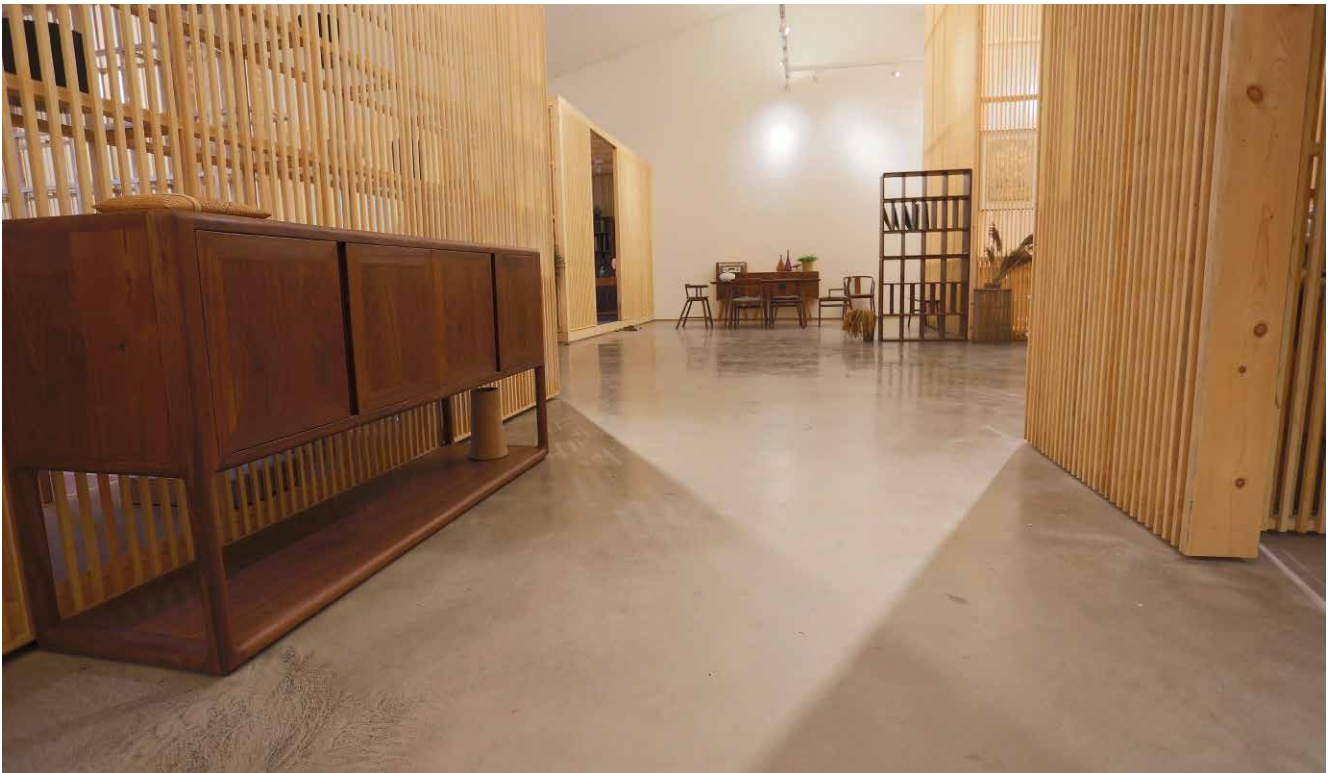
**A**s a worldwide famous metropolis, Beijing is the capital city of the People's Republic of China. Besides, it is a city with long development history and has always been the core cultural centre in China. With such background, personalised arts business is flourishing and everywhere is full of different styles of workshops, cultural centres and recreational places. Recently, the local attention goes to DIY wood workshops. With a spectacular outlook and high-graded facilities, Thrudesign Wood DIY Workshop is nominated to be the new landmark workshop in Beijing.

## Thrudesign Wood DIY Workshop

Founded by two Red Dot & IF Award winning industrial designers, Thrudesign's philosophy focuses on "less is more". Thrudesign has a team of experienced and dedicated designers and engineers, which are capable of providing some of the finest design and product strategy research services in China. Working closely with manufacturers and individuals to develop new and compelling products, it developed DIY workshop services to cover a wide spectrum from furniture and personal DIY courses, etc. DIY courses team is enthusiastic and dedicated, and will continue to deliver innovative and winning product solutions to help wood DIY lovers work out personalised products and obtain basic knowledge on wood DIY techniques.

## Mapei's Intervention

Because of the "Less is more" concept, the designers preferred the natural original look when choosing materials for building the workshop. Following this requirement, Mapei technicians introduced the cementitious surface effects prepared by using



ULTRATOP ultra-fast setting, self-levelling, ultra-quick hardening mortar and ULTRATOP LOFT trowelable cementitious paste. Once Mapei sample board was received, the designers immediately decided to accept the Mapei solution as it perfectly matched their idea.

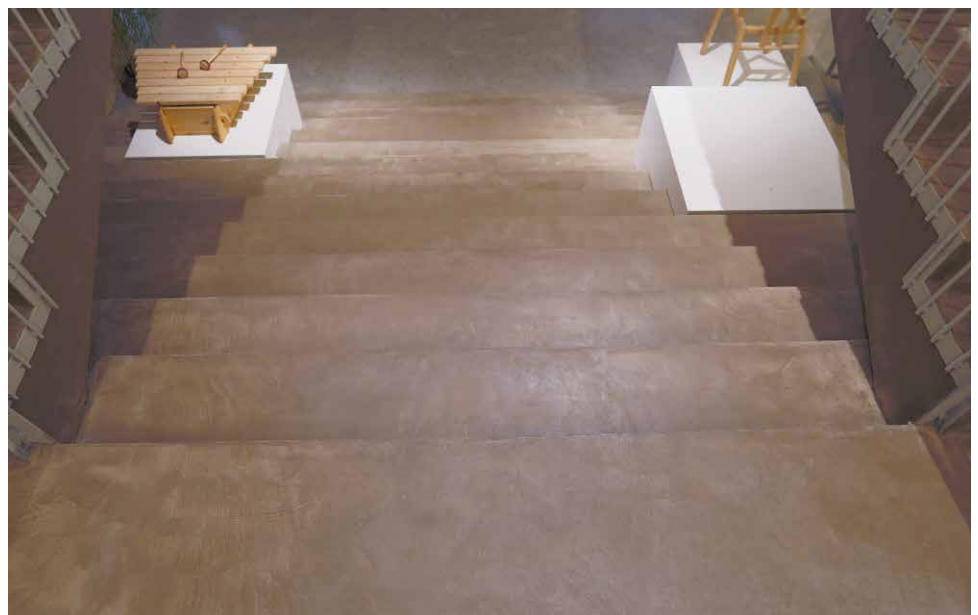
Other than fulfilling the special aesthetic look, the customer required a low dust and noise-reducing, environmental-friendly system that allowed continuous working during construction.

As a result, Mapei carefully proposed a feasible plan to fulfill the need.

### The Stairs On The First And Second Floor

As for the stairs on the first and second floors, PRIMER SN and ULTRATOP LOFT were used on an area of 120 square metres to obtain a pleasant look combined with good abrasion resistance. To deal with the disadvantage of dim lighting and inadequate spacing of the workshop, brighter light grey color was chosen to enhance the visual appeal. The effect was overwhelming, and highly appreciated by the customer.

ULTRATOP LOFT is a cementitious trowelable paste for seamless decorative coatings for floors, walls and stairs, which feature high abrasion resistance. A natural color was chosen for the stairs on the first and second floor in order to match the workshop style and to emphasise its essential, textured effect. After treating the substrates with PRIMER SN two-component epoxy primer with fillers, the first layer of ULTRATOP LOFT F coarse-textured paste was applied. The surfaces were then grinded and a second layer of ULTRATOP LOFT F was applied again. Afterwards, one coat of ULTRATOP LOFT W fine-textured paste was used as finishing coat.



### The Floors On The Second Floor

In the DIY classroom and DIY aisle on the second floor, polished-effect, quick drying and abrasion-resistant floors were completed using MAPEFLOOR I 900 two-component epoxy binder and ULTRATOP cementitious self-levelling, ultra-quick hardening mortar on over 300 square metres.

The substrates were grinded before applying MAPEFLOOR I 900 and broadcasting the surface with quartz sand. ULTRATOP was applied thereupon. For the fulfillment of the tight application schedule, quick drying and setting ULTRATOP was the perfect choice for this kind of application. Besides, its high abrasion resistance helped to minimise the impact from scratching by tools and wooden materials. Most importantly, floors treated with ULTRATOP, in its polished effect, are very easy to clean and maintain.

Article source: *Realtà Mapei International* no. 61/2016

For more information, email [enquiry@mapei.com.cn](mailto:enquiry@mapei.com.cn).

### Mapei Products

Treating the substrates: Primer SN

Building cementitious and resin floors and stairs: Mapefloor I 900, Ultratop, Ultratop Loft F, Ultratop Loft W



### PROJECT DATA

**Project:** Thrudesign Wood DIY Workshop

**Location:** Beijing, People's Republic of China

**Design:** Duoxiang Studio

**Period of Construction:** January-July 2016

**Period of the Mapei Intervention:** March-June 2016

**Client:** Thrudesign Wood DIY Workshop

**Floor Installation Contractor:** Beijing Nuo La Ano Trading Co., Ltd

**Mapei Distributor:** Beijing Nuo La Ano Trading Co., Ltd

**Mapei Co-ordinator:** Ming Guo, Mapei Construction Materials (Guangzhou) Co. Ltd

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# Lysaght® Klip-Lok® 406 – Realising your vision from every angle

Looking at the ingenious building designs that grace our cities nowadays, it is easy to forget that building designers have to overcome a myriad of practical challenges in order to realise their visions. External aesthetics, in particular, are often constrained by the materials and installation systems available in the market. And when solutions are not readily at hand, compromises have to be made, resulting in outcomes that fall short of ideal.

At BlueScope Lysaght®, the company's mission is to make such compromises a thing of the past. For decades, the company has established a trusted reputation for providing not only great products but also innovative solutions for architects and builders around the world. And its acclaimed Klip-Lok® 406 is a renowned example of how its inventive thinking has created a breakthrough roofing and walling profile that helps its customers turn the impossible into possible.

## No angle is beyond reach

Traditionally, roof designs are restricted by the pitch limitations of profiles and installation systems. With Klip-Lok® 406, this is no longer a problem. Its uniquely-designed fastening method allows it to be applied even on low pitched roofs. Now building designers have complete freedom with creativity. In fact, the innovative securing system means Klip-Lok® 406 can even be applied vertically and horizontally as walling facades. Such multi-application versatility with a single product not only increases design possibilities, but allows for uniform use of material to create a seamlessly cohesive look that delights the eyes and minds.

## Seamless look for unrivalled appeal

Klip-Lok® 406 comes in long lengths that designers can use to create a continuous appearance that is unbroken by joints, seams or overlaps. But the remarkable beauty of using this product does not stop there. The fixing clips designed to secure the steel cladding to timber or steel supports are positively concealed and not visible on the outside surface. In other words, builders no longer have to settle for exposed fasteners or puncture holes. Klip-Lok® 406 has made it possible to create clean, seamless silhouettes with smooth lines that extend as far as the eye can see.

## Made to last and withstand all weather

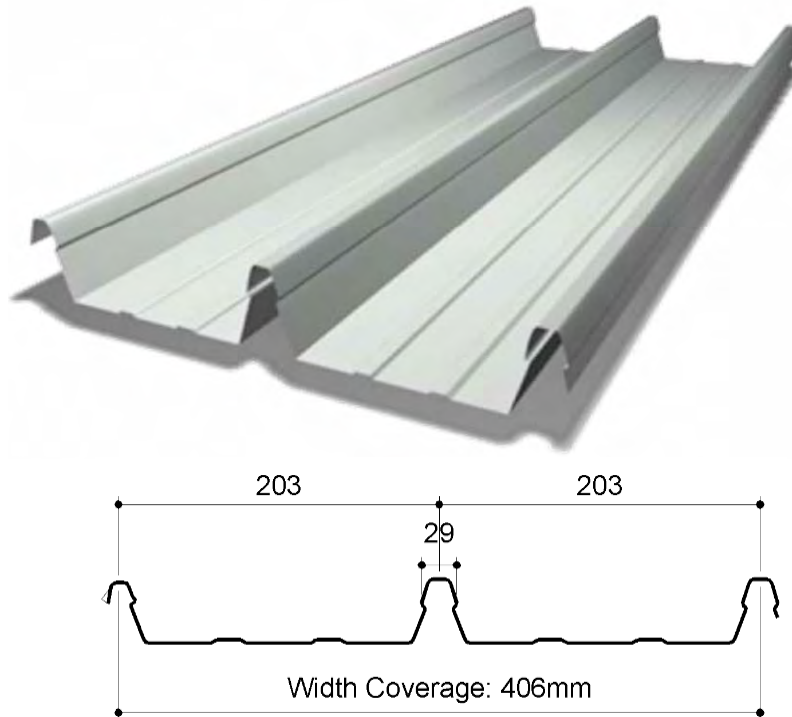
BlueScope Lysaght® is synonymous with products that offer durable performance, and Klip-Lok® 406 is no exception. Every sheet is roll-formed from genuine high tensile Zinalume® G550 steel that is backed by a material warranty of up to 10 years\*.

As many people in the industry would know, Zinalume® is the company's renowned proprietary premium steel that features a special zinc-aluminium alloy coating that improves corrosion resistance by up to four times more than that of conventional galvanised steel. But this benefit is just part of how well Klip-Lok® 406 performs against the weather. Its strong yet lightweight nature gives it excellent wind resistance. Additionally, the wide fluted pans and high ribbed design channels rainwater quickly and efficiently towards the outer perimeters of roofs, making the product the perfect choice for buildings located in places that experience frequent heavy rainfall.

For coloured options of its product, BlueScope Lysaght®'s Clean Colorbond® technology has got it covered. The unique oven-cured paint system that is applied onto its Zinalume® steel provides long-lasting colour retention with low delamination properties and high resistance against dirt staining that is common in tropical climates. And like Zinalume®, all Clean Colorbond® products come with a material warranty of up to 10 years\*.

## Easy to implement and easy on the budget

Thanks to the smart fluted pans and lock-action fastening, Klip-Lok® 406 can be laid and aligned with the utmost ease and convenience. Even installing and fixing the clips – much fewer are now required – has been made simpler and quicker than



traditional methods. These smart features translate to money and time saving benefits for builders, thereby helping them realise their creations within budgets and time frames. For building owners, lower installation costs and faster construction, coupled with less maintenance needs against the effects of weather, results in less worries and more reasons to enjoy their investment.

#### When it is this well-made, the quality shows

Across Singapore, Klip-Lok® 406 can be seen being used on a wide variety of infrastructures, ranging from schools to sports complexes, and factories to industrial parks. And the advantages provided by the product are easily evident to our eyes. This is especially so for Singapore Exposition Halls 7 to 10. Since its completion in September 2005, the sprawling structures – which design called for vast use of sleek, beautiful steel facades – have maintained their modern, attractive appearance despite being more than a decade old and having so much of its surfaces exposed to the elements.

#### Features of Klip-Lok® 406

- Effective cover width of 406mm
- Rib height of 41mm
- Minimum roof slope of 1°
- Conforms to international building codes and standards
- Genuine material warranty and product certification
- Meets standards set by ISO9001 Quality Management System and ISO14001 Environmental Management System

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For more information, contact NS BlueScope Lysaght Singapore Pte Ltd at tel +65 6264 1577 or visit [www.lysaght.com.sg](http://www.lysaght.com.sg).



Singapore Exposition

# dormakaba – smart access

**d**ormakaba is one of the top three companies in the global market for access and security solutions. The company is a single source for everything related to doors and secure access to building and rooms. With around 16,000 employees and numerous cooperation partners, dormakaba is there at your side in over 130 countries. That means wherever you are in the world, you can profit from future oriented products, solutions and services that give you the feeling of long-term security.

## Your benefits – A reliable partner

For dormakaba, the satisfaction of its customers and partners is its top priority. That is why the company listens to make sure it understands your day-to-day challenges and requirements.

Everything the company does is oriented towards developing seamless access solutions and services that do not just make buildings smarter and more secure, but also give you the feeling of being in good hands at all times. With in-house product specialists who are there for you with reliable, expert advice, dormakaba continues to be a trusted, long-term partner for you. As an established group of companies dormakaba brings together over 150 years of experience. No matter where you are, if you need innovative, reliable access and security solutions, dormakaba is there for you with its high-quality offering – in hotels, shops, sporting venues, airports, hospitals, at home or in the office. All over the world.

dormakaba's smart and secure access solutions from a single source



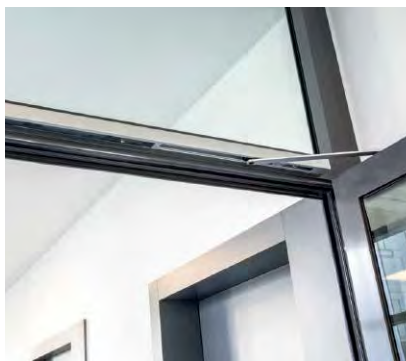
### Mechanical Key Systems

Optimal security with flexible allocation of access rights – for the best possible control, low costs and greater convenience.



### Interior Glass Systems

High-quality system solutions made from glass – for a wide range of everyday and office applications.



### Door Hardware

Long-life, attractive door technology solutions – for greater on-site convenience, easy assembly and reliable functionality from a single source.



### Lodging Systems

Hotel locks and locking systems as well as access management solutions for holiday homes – for reliable yet convenient and efficient protection of all kinds of property.

# solutions for your satisfaction



## Safe Locks

Security locks – for optimal protection of goods, valuables, information or hazardous substances against unauthorised access.



## Entrance Systems

Automated access solutions – for convenient, automated building access.



## Services

Tailor-made services and customised maintenance – for the long-term functional integrity of all types of access and security solutions.



## Movable Walls

Flexible, efficient partition wall solutions – for individual space configuration in hotels, conference centres, studios and other venues.



## Electronic Access & Data

Electronic access control and workforce management – for efficient access management, security and data collection.



## Key Systems

Key blanks and key-cutting machines as well as automotive solutions ranging from vehicle keys up to programming devices – for every access situation.

For more information, visit [www.dormakaba.com.sg](http://www.dormakaba.com.sg).



15-19 Mar 2017  
World Trade Center Metro Manila,  
Philippine Trade Training Center, and  
SMX Convention Center  
Manila, Philippines

## WORLD BEX 2017 opens the Philippines' golden age of infrastructure



Ribbon cutting ceremony of WORLD BEX 2017 at World Trade Center.

From left to right: Jill Ang (Managing Director, WSI); Albert Fan (Manager, Taiwan Trade Center); Nizelle Sy (Representative, French Embassy); Henry Lee (President, Philippine Hardware Association); Benjamin Ziga (1st Secretary, Czech Republic Embassy); Rene Ramos (Director of WSI); Sewwandi De Silva (2nd Secretary, Embassy of Sri Lanka); Joseph Ang (Founding Chairman, WSI); Khanka Nit (Commercial Councillor, Thai Embassy); Sec. Mark Villar (DPWH); Kok Li Peng (Ambassador of Singapore); Usec. Ruth Castelo (DTI); Dir. Nick Ni Teco (Taiwan Economic Cultural Office); Senate Secretary Atty. Lutgardo Barbo representing Sen. Koko Pimentel; Archt. Francisco Flamenno (Executive Director WSI); Daniel Ching (VP-External Affairs); IDr. Tessa Prieto-Valdez; Hero Yu (PESA President); Levi Ang (Co-Founder, WSI); Tessie Roque (Director, WSI); Stephen Wong (President of PHFI); IDr. Archt. Rogelio Caringal; Marjorie Aguinaldo-Muñoz; and JR Ang (Marketing Director, WSI). Photo: © Worldbex Services International



PTTC ribbon cutting ceremony.  
Photo: © Worldbex Services International



SMX Convention Center ribbon cutting ceremony.  
Photo: © Worldbex Services International

**W**ith more than 1,000 booths from 16 countries and occupying 60,000 square metres of exhibition space, WORLDBEX 2017 once again proved to be one of Philippines' largest building and construction expositions.

Held from 15-19 March 2017 in Manila, the exhibition space for WORLDBEX 2017 was expanded to the SMX Convention Center, proving the strength of the exhibition in terms of new exhibitor and partner participation, both from the Philippines and abroad. According to the show organiser Worldbex Services International, this year's 22nd edition was the 'biggest and the boldest' one to date.

To officially open the exhibition, a ribbon-cutting ceremony was held at the World Trade Centre Metro Manila followed by simultaneous ceremonies at the SMX Convention Center and Philippine Trade Training Center (PTTC). Among the distinguished guests who graced the opening ceremonies were DTI Undersecretary for the Construction Industry Authority of the Philippines, Atty. Ruth Castelo; DPWH Secretary Mark Villar; representatives from the office of Senate President Koko Pimentel; along with VIPs and key officers of the show organiser, Worldbex Services International.

WORLDBEX 2017 was based on the theme 'Building Bolder Perspectives' and as the name implies, the show was designed to inspire the building and construction community in the Philippines to attain such exemplary developments. It brought together nearly all the leading manufacturers, suppliers and dealers from the building and construction industry under one roof. Trade visitors comprising of architects, developers, contractors, landscape professionals, interior designers, and engineers were treated to an impressive array of innovative building materials, products, technology and services.

In addition to exhibits, WORLDBEX 2017 also featured the Interior Designers Gallery; the Architects Gallery, an exhibit of scale models representing projects of the future envisioned by top architects; international pavilions, Worldbex Seminars, free business matching services and the Worldbex Minicon – a first-of-its-kind, three-day conference partnered with various associations by experts for experts. Another must see highlight at WORLDBEX 2017 included WORLDBEX Lab, which was an exhibition area featuring the latest and the most state-of-the-art product innovations by this year's exhibitors.

WORLDBEX is an annual building, design and construction exposition held in Manila, Philippines. WORLDBEX 2018 is scheduled to take place from 14-18 March 2018. For more information, visit [www.worldbex.com](http://www.worldbex.com).



Photo: © Worldbex Services International



Photo: © Worldbex Services International



Photo: © Worldbex Services International

## Anchor Allied Factory Ltd

Anchor Allied Factory Ltd was incorporated in Sharjah, UAE in 1995. From a small unit, the company has grown to become one of the largest manufacturers of Silicone Sealants, PU Sealants, PU Foam, Spray Paint, other Aerosols, Adhesive Tapes and other allied products in the Middle East.

The company exhibited in Worldbex 2017 to explore business opportunities in the Philippines. Currently, the company exports its products to 36 countries worldwide, mostly to the whole Middle East, Africa, CIS Countries, Indian Subcontinent, Far East, Southeast Asia and South America. The company also maintains sales offices in Saudi Arabia, Egypt and India to provide efficient customer support in the region.

"We participated in Worldbex 2017 to look and explore some business here in the Philippines," said Mr Mustafa Shikari, Export Manager, Anchor Allied Factory Ltd.

For more information, visit [www.anchorallied.com](http://www.anchorallied.com).



Mr Mustafa Shikari (right) and his colleague at the Anchor Allied Factory's booth at Worldbex 2017.

## SCG Marketing Philippines Inc

SCG Marketing Philippines Inc launched a new product called SCG Portland Cement Type 1 at Worldbex 2017. SCG Portland Cement Type 1 is available in Thailand for almost 100 years already and the SCG plans to launch it in the Philippines to meet the demand for high quality cement products for government infrastructure projects.

"A lot of government projects are coming and the government is going to spend on infrastructure projects. This means there will be high demand in the cement market," said Mr Ralph Chester B. Ocana, Regional Sales Manager, SCG Marketing Philippines Inc.

SCG Portland Cement Type 1 is used for structural reinforced concrete construction such as foundations, columns, beams, slabs and pavements of buildings, houses and bridges, etc. This cement is developed for the production of high strength concrete, which means concrete structures will be strong and durable.

SCG Portland Cement Type 1 has received several certificates of approval. It was assessed and proved to conform with the Thai Industrial Standard specification for Portland cement Type 1 (TIS 15-PART1-2555). It also conforms with ASTM C 150 Type 1 and with PNS 07:2005.

"Our cement saves time for construction as it dries up in three days) and uses only eco-friendly raw materials. We replant the trees from which we get the raw materials from," added Mr Ralph.

For more information, visit [www.scg.co.th](http://www.scg.co.th).



Ralph Chester posing with the SCG Portland Cement Type 1 launched by SCG at the show.

## Niro Ceramic Malaysia

Niro Ceramic also exhibited in Worldbex 2017. It was the company's second time participation in the exhibition and it showcased a new porcelain tiles in blackstone design named 'Riviera Black'.

According to Mr How Han Hui, General Manager, Niro Ceramic Philippines the tiles have better quality and they come in different sizes to suit the customers' needs. Three versions are available: Matt, Lappato and Structured and they come in the following sizes: 60x120 cm, 80x80 cm, 45x90 cm, 60x60cm and 30x60cm.

Lappato, with the biggest tile size, can be used on facades, while Matt and Structured can be installed outdoors and indoors such as on walls, living room, washroom and etc.

"Porcelain tile is easy to maintain and more durability. We produce the porcelain tile into various sizes, various surfaces. We are very optimistic for Philippines market and the infrastructure here is booming. We see that our products have a great demand here and people here are looking for a floor covering which is durable and has a European design, this is exactly what we are producing," said Mr How.

Niro Ceramic Group has been around for more than 35 years. Marketed under the brand name of Niro Granite, its first manufacturing plant was established in 1979 in Switzerland. The rapid growth in the Asia markets eventually led to the success of Niro Ceramic Malaysia's establishment in 1988 and Niro Ceramic Indonesia in 1995. Attributed to the constant market demand, Niro Ceramic China was established in 2001 and Niro



Mr How Han Hui posing beside the NIRO collection - Elmina Stone Design Porcelain Tiles.

Ceramic Vietnam as well as Niro Ceramic Espana in 2010. In 2013, one of the notable tile brands in Spain, Zirconio, founded in 1965, was acquired by Niro Ceramic Group.

The continuous economic growth in the Southeast Asia encouraged the rapid expansion of Niro Ceramic Group's network to India, thus Niro Ceramic India is formed in 2014. In 2016, the group has established a sales office in Philippines. It is currently setting up a showroom in Makati City, which will tentatively be ready by July 2017.

For more information, visit [www.nirogranite.com](http://www.nirogranite.com).

## Standart Insulation and Building Materials Inc.

Standart Insulation and Building Materials Inc. has been established in Istanbul-Silivri in 2001 to manufacture polymer bitumen based waterproofing membranes, bitumen based roof membranes and shingles with its quality understanding.

The company has obtained quality certificates of TSE, CE, DIN, Broof, etc. In addition, Standart Insulation pays attention to service and quality by following the ISO 9001-2000 quality management system.

Standart Insulation serves its customers domestically throughout Egean, Mediterranean, East Anatolia (Adana), Central Anatolia (Ankara) regional headquarters and dealers.

The company exports to more than 40 countries and it will continue to set new export targets in the coming years and is looking for reputable distributors in Southeast Asia. Standart Insulation is a member of Bituder (Bituminous Waterproofing Manufacturers Association) and Imsad (Construction Materials Industrialist Association).

For more information, visit [www.standartinsulation.com](http://www.standartinsulation.com).



The Penguin brand of waterproofing membrane from Standart Insulation. Photo: © Standart Insulation



QuickShingle from Standart Insulation. Photo: © Standart Insulation

## Fujian Kaijing GreenTech Material Co Ltd

Founded in September 1996, Fujian Greentech Material Co Ltd was established by Kaifa International Co Ltd. Originally named as Fujian Kaiguan and Fujian Kaijing Steel Development Co Ltd and renamed as Fujian Kaijing Greentech Material Co Ltd in July 2014.

Fujian Kaijing Greentech Material Co Ltd (FJKJ) produces colour steel coils, galvanized steel, pre-painted steel and steel coils. FJKJ is located in Zhangzhou Taiwanese Investment Area (Jiaomei), only 40 minutes drive from Xiamen Airport, enjoying an advantaged geographical location and convenient transportation.

The company now has six production lines including one pull-push pickling line with annual capacity of 600,000 tons, one eight-Roll five stand continuous tandem cold mill with annual capacity of 600,000 tons, two hot dip galvanized lines with annual capacity of 150,000 tons and of 250,000 tons, one pre-painted galvanized line with annual capacity of 150,000 tons and one coil processing line for cut-to-length and slitting, which brings total investment to \$135 million and covers an area of 400,000 square metres.

By researching and developing manufacturing technologies, using the state-of-the-art manufacturing equipment, FJKJ has been a leading position in the industry. The company keeps on improving product quality to allow the sheet to high formability, high strength, good corrosion resistance and high weldability.

FJKJ has been certified to ISO 9001:2008 Quality Management System by SGS and then obtained the two honours for being High Technology Enterprise of Fujian Province and the Double Intensive Enterprise (Knowledge-intensive and Technology-intensive).

For more information, contact the company at tel (+86) 596 6766251 / 2.



Roni Que, Sales, Export Section, Sales Department, Fujian Kaijing Greentech Material Co Ltd at his booth at Worldbex 2017.

## Euro Tempered Glass Industries Corporation

Euro Tempered Glass Industries Corporation is a leader in modern glass architecture in the Philippines. The company is going beyond further to reach its full potential by modernizing the production by introducing the internationally accepted standard in architectural glass industry, the Tempered Glass.

Tempered glass, or toughened glass, is glass that has been heat-treated to make it stronger, more resistant to heat and break. There are multitudes of application of tempered glasses. It can be used in curtain walls, front doors, shower stalls, facade and anywhere where strong, safe glass is called for.



Jessilyn Yumul, Sales Executive, Glass Solutions Premier at her booth at Worldbex 2017.

The company's range of products include:

- Tempered Glass
- Clear Float Glass
- Ultra-clear Glass
- Tinted Float Glass
- Energy Saving Glass
- Laminated Glass
- Insulating Glass Unit
- Oversized Glass
- Colorspray – Ceramic Frit
- Back-painted Glass
- Digiprint – Art Glass
- iGlass – Smart Glass

For more information, visit [www.gspremier.com](http://www.gspremier.com).

## China Construction JG Group

China Construction JG Group, founded in 1995 in Tianjin, specialises in high quality products and solutions for the window factories/contractors and construction materials distributors.

Under the brand WINDOWMATE, company's products consist of:

- Invisible Screen – for all kinds of window & door, and prevents mosquitoes from entering the room
- Roller Blinds – For house, office, hotel and public buildings
- Security Screen Window – For security and prevents mosquitoes from entering the room
- Fingerprint Lock – key lock/password lock/ card lock for different uses

At Worldbex 2017, the company showcased Retractable Insect Screen. The Retractable Insect Screen helps to prevent mosquitoes and flies whilst keeping your home well ventilated at the same time without sacrificing your desire for a wonderful outdoor scenery view. It offers smooth and quieter rolling with the Adjustable Spring feature.



Henry Lee standing next to the model of the Retractable Insect Screen at his booth at Worldbex 2017.

**Advantages of Retractable Insect Screen include:**

- 100 percent mosquito out
- Easy to install and maintain
- Dust cleaning device
- Retractable system for good view window closed
- Water & fire proof mesh
- Longer service life
- Anti-wind tension mechanism

For further information, visit [www.decorawindow.com](http://www.decorawindow.com).

## Thung Hing

Thung Hing, a leading manufacturer and supplier of high quality building materials for the construction industry in Malaysia, presented a fast, cost saving wall system called the 'TH FrameMax®' at Worldbex 2017.

The TH FrameMax® offers several advantages such as faster construction speed, eliminates column and beam, reduced heavy machinery usage, smoother & even wall surface (skim coated) finishes and faster completion in comparison to conventional walling system.

According to Mr Kelvin Lim, Head of Trade, Export Division, Thung Hing, construction time is greatly reduced because with TH FrameMax® it takes only one week to build eight units. This is much faster than the three weeks taken to build the same number of units with bricks or steel bars & BRC. "Our design is patented and it is environmentally-friendly, fast and cost-saving," said Mr Lim.

For more information, visit [www.thunghing.com.my](http://www.thunghing.com.my).



Mr Kelvin Lim (right) and Mr K.C. at their booth at Worldbex 2017

## Guangdong GONGLI Building Materials Co Ltd

Guangdong GONGLI Building Materials Co Ltd, located in Foshan City in Guangdong province, specialises in roofing tiles. With many years of development, the number of employees in the company has reached 100 and the area of its factory is over 30,000 square metres. The company has become an innovative enterprise, which includes research, production and sales at home and abroad. At present, its customers are mainly from the domestic market, Southeast Asia, Africa and Middle East.

The company's factory has seven production lines and the capacity is over 2.5 thousand tons. The company's range of products include: synthetic resin tile ASA, A+PVC compound Watt, four composite tile, UV-PVC plastic, UV-PVC trapezoid tile, UV-PVC corrugated tile, UV-PVC plate, UV-PVC translucent and PC transparent tile. All the different products can meet the different demands of customers.

GongLi building materials claim to be more durable and tough and have higher fire protecting performance than other products in the industry due to their good raw materials and stringent production process. Compared to traditional iron tile, plastic tile has the advantage of heat insulation, excellent corrosion resistance, acid resistance, environmental protection, light, building energy-saving and easy installation. The products are widely used in plants, industries, warehouses and marketplaces.

For more information, visit [www.hongsurooftile.en.alibaba.com](http://www.hongsurooftile.en.alibaba.com).



Bonnie He, General Manager, Guangdong GONGLI Building Materials Co Ltd at her booth at Worldbex 2017.

## MM Mosaic

ANT Building Material Co Ltd, a leading manufacturer and distributor of mosaic tiles from China, exhibited at Worldbex 2017 for the first time.

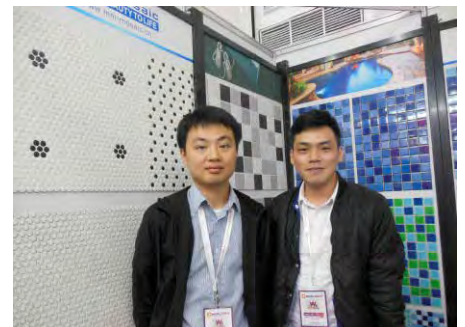
The company, which manufactures its tiles under the brand name 'MM Mosaic', showcased its product range of mosaic tiles namely ceramic mosaic tile, glass mosaic tile, stone mosaic tile, metal mosaic tile, and porcelain mosaic tile to the trade visitors.

Based in Foshan City, the company supplies its tiles to the domestic market and exports to many countries including Europe and USA. It is now looking at developing its business in the Asian market.

"We want to market our mosaic tiles to the Philippines because we feel that it is a good market for us. That is why we came here to have a look," said Mr Kevin, Export Sales, ANT Building Material Co Ltd.

The company is currently working on a project in the Philippines. It is supplying its mosaic tiles for a swimming pool.

For more information, visit [www.mm-mosaic.cn](http://www.mm-mosaic.cn).



Kevin (left) and his colleague at MM Mosaic's booth at Worldbex 2017.

## Mercurius Asia (SG) Pte Ltd

Mercurius Asia (SG) Pte Ltd, a leading provider of a meticulously curated solution for material needs in the building and construction industry, exhibited in Worldbex 2017. Catering specifically to those in the facade industry, Mercurius Asia aims to improve the overall standards of buildings and developments by bringing architects, building owners, consultants, contractors and developers closer to quality façade products specially sourced from all over the world that are safe and easy to install.

Mercurius Asia offers aluminium composite panels, curtainwall systems, doors, windows and security glass, security doors and security windows for your building needs. Mercurius Asia represents the following companies: Elval Colour S.A., ETEM, and Billur Cam Endustrisi.

Visit [www.mercurius-asia.com](http://www.mercurius-asia.com) for further information.



The team of Mercurius Asia (SG) Pte Ltd at their booth at Worldbex 2017.

## Mariwasa Siam Ceramics Inc

AFTER celebrating its 50th anniversary in 2016 as one of Philippines' leaders in the ceramic tile industry, MARIWASA unveiled its new set of designs that are attuned to the modern times when it took part in the 22nd WORLDBEX on March 15 to 19 at the World Trade Center in Pasay City. But its world-class standard of beauty and durability has remained a constant for five decades.

"By harnessing the innate expertise of the Filipino artisan, MARIWASA was able to maintain the world standards of beauty and durability that it set in 1966," said MARIWASA Siam Ceramics, Inc. (MSC) President Phaskorn Buranawit, who is also the Country Director for SCG Philippines, MARIWASA's mother company.

"We felt that the best avenue to launch our modern designs is through the WORLDBEX, where MARIWASA has been a proud partner for years," added Mr Buranawit, referring to the Philippines' largest construction building materials' exposition.

MARIWASA was the first to manufacture both wall and floor tiles in a vast range of colours and sizes in response to the steadily growing market.

"MARIWASA is committed to be always attuned to the demands of an upbeat, young and upwardly mobile market," said VP for Sales and Marketing Jakkrit Suwansilp. He added: "I have no doubt that our new, innovative designs will catch the fancy of the millennials, a growing and important target market. Our 20x60 wood designs, for example, are better because they are more durable, easy to clean and environmental friendly compared to vinyl flooring and the real wood planks, not to mention our competitive pricing. Our new designs can also be used in the living room, bedroom and other interior requirements."

Suwansilp added that MARIWASA tiles even go beyond its usual application. "Now, MARIWASA tiles are being used as wall cladding – substitute for bricks and wood planks. Designs that can replicate natural materials (stone, marble, wood) which is cost efficient and easy to maintain than the natural materials," said Suwansilp.

MARIWASA's newest tile designs are grouped into three sub themes namely MORPHOLOGY, which is about innovation inspired by bio mimicry and organic forms; INDIE-FLUENCE, which portrays designs that celebrate individuality and cultural



Photos: © Mariwasa Siam Ceramics Inc

heritage; and INNOTHERAPY, a collection of designs that induce relaxing and healing effects infused with modern technology and with heavy use of natural colours.

MARIWASA's 2017 Collection is expected to cater to the requirements of modern Filipinos. With an understanding of human excitement and desire, combined with extensive innovation management and commercialization experience, MARIWASA created new designs that provide both exterior and interior application that will never limit one's imagination.

"With each MARIWASA tile comes a firm commitment to product excellence that is fully supported by extensive research and development, innovative design and some of the most modern production facilities and processes in the Philippines, all of which are now operating under ISO 9001:2000 and PNS/ISO 13006 quality standards," said Mr Buranawit.

For 51 years, Mariwasa has been synonymous to constant innovation and durability, thanks to ingenious Filipino designers famed for their skill, creativity and exceptionally talented R&D team. Such a combination has pushed Mariwasa as an industry leader as it offered an extensive range of ceramic wall and floor tiles in a variety of designs, sizes, colors and finish, thereby providing customers with an array of prime choices.

"As Mariwasa continues to develop high-value products to serve the growing demand for highly-innovative tile designs, we take pride in the truth that a Filipino brand can compete with the world's best, setting the bar high for quality standard coupled with utmost commitment to customer satisfaction thus earning the distinction as the preferred brand among architects, designers, and end-users alike," Mr Buranawit concluded.

**For more information, visit [www.mariwasa.com](http://www.mariwasa.com).**

## Solartech Sales & Service Sdn Bhd

Malaysian company Solartech promoted and exhibited its "SUMMER" brand of solar hot water system at Worldbex 2017.

For over 35 years, SUMMER has been providing carbon and energy savings in hot water technologies to the world. The product was developed from a focused effort to save electricity and gas. The SUMMER system is manufactured from 100 percent recyclable materials. The company adheres to strict quality control procedures to ensure that only products of the best quality, safety and reliability reach its consumers.

The average household uses approximately 1000 kWh of energy per year for hot water. This equates up to 15 percent of your electricity bill, which goes up to 30 percent if you require space heating. Summer saves you up to 95 percent of this amount.

SUMMER Solar Water Heater claims to be the only Malaysian Made product in the local market that is internationally certified by Global Mark and Water Mark - Australia, Solar Keymark - Europe and SRCC - USA (Pending).

**For more information, visit [www.solartech.com.my](http://www.solartech.com.my).**



**SUMMER solar hot water system. Photo: © Solartech Sales & Service Sdn Bhd**

# MYANBUILD'17

MYANMAR'S INTERNATIONAL BUILDING & CONSTRUCTION SHOW

30 NOVEMBER - 2 DECEMBER 2017 • MEP MINDAMA, YANGON

## MYANMAR'S NO.1 INTERNATIONAL BUILDING & CONSTRUCTION INDUSTRY EXHIBITION AND CONFERENCE

30 NOVEMBER - 2 DECEMBER 2017  
MEP MINDAMA, YANGON

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Mr. Darren Siow +603 2692 6888 or [darren@ambtarsus.com](mailto:darren@ambtarsus.com)
- To Visit the Expo or For More Information, Contact:  
Ms. Ei at +95 9 250371296 [ei@ambtarsus.com](mailto:ei@ambtarsus.com)



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**ASIA**

THE LEADING  
SWIMMING POOL  
AND WELLNESS EVENT

**5-6 Apr 2017**  
**Marina Bay Sands**  
**Singapore**

## Piscine Global Asia 2017 makes waves again!

The fourth edition of Piscine Global Asia was held from 5-6 April 2017 at the Marina Bay Sands in Singapore. Over the two days, Piscine Global Asia welcomed 96 exhibitors and brands from 18 countries, and 919 attendees from 28 countries

Visitors included pool construction and installation professionals, pool and spa maintenance companies, general construction companies, distributors, landscapers, architects, public authorities and many more.

In addition to the exhibition, outstanding pools projects were also presented, and three of them were awarded during the Pool Vision award ceremony on 5th April. The competition was open to all qualified architects, interior designers, pool designers from any country in the region. The winners were: S. Pin Architect (Innovative Pool), Abraham John Architects (Residential Pool) and P Landscape Co., Ltd (Tourism & Leisure Pool).

Piscine Global Asia is committed to supporting innovation in the pool and spa industry and is now a major springboard for launching and promoting new products on the Asian markets. Exhibitors presented their latest innovations to all visitors at the Piscine Innovations area.

The Speed Meetings service allowed networking between exhibitors and visitors, allowing networking through a series of 30 minutes interviews. This free platform assisted visitors in looking for a supplier, planning an aquatic leisure projects. Nearly 120 meetings had taken place.

A new feature of Piscine Global Asia was the Pool Design Workshop. Federations of landscape architects and swimming pool architects welcomed their guests and exhibitors to discuss their projects and provide advices. IALI (Indonesian Association of Landscape Architects) and Kien Truc Nha Dep (Vietnamese architecture magazine) had participated.

A free education programme was well attended, and featured industry experts speaking on topics including drowning detection technologies for public swimming pools by Fluidra, Swimsafe to kids and pools to schools in Vietnam by Poolstore Vietnam, OC-1 the Future of swimming pool filtration by Certikin, Control your pool wherever you are through the Fluidra Connect app by Fluidra.

The Pool Summit was the first international meeting dedicated to big swimming pool deciders from around the world, whether they are federations, industrials or press editors. The conference aimed to discover the six big Southeast Asian countries (Singapore,



Photo: © Piscine Global Asia



Photo: © Piscine Global Asia



Photo: © Piscine Global Asia

Malaysia, Indonesia, Thailand, Philippines, Vietnam) and the behaviour of the customers concerning swimming pools. It also saw two federations (SPASA and IALL) introducing the market of their respective countries (Australia and Indonesia). More than 15 exhibitors and federations attended the summit.

Piscine Global Asia signed plenty of partnerships with 12 professional associations and 15 magazines. Dates for Piscine Global Asia 2019 will be announced shortly. **To keep updated on developments, visit the website [www.piscine-global.com](http://www.piscine-global.com).**

## BSV Electronic, SL

BSV Electronic, SL is a company created in 1984 with the objective of providing the best solutions in the fields of water treatment, industrial electronic and lighting. It was the second time that the company was exhibiting in Piscine Global Asia 2017 show. The company showcased improved range of salt chlorinators in professional and commercial pools.

BSV's salt chlorinators can offer up to 58 percent savings in cost compared to chemical treatment. This is an important water savings, reducing water cost and ecological impact. The optimized energetic management decreases energetic cost to produce chlorine and protects the natural environment. In addition, BSV uses only the best materials to have a long life cell. This combined with its new cell using MPT (Mix Performance Technology) improves cell performance and reduces environment impact. It is integrated perfectly into the most part on new domotic systems.

Already established in Spain, Europe, Africa and Middle East, BSV is now looking to expand in Asia. "Europe is our mother market and we have just started selling our machines in Malaysia, Indonesia and other Southeast Asian countries," said Jordi Vila, General Manager, BSV Electronic, SL.

**For more information, visit [www.bsvelectronic.com](http://www.bsvelectronic.com).**



Jordi Vila at his booth at Piscine Global Asia 2017 show.

## Pahlén

Pahlén is a Swedish company with 50 years of experience in manufacturing quality products for pools. It was the company's first time participation at Piscine Global Asia 2017 show. Pahlén provides equipment for both private pools and public facilities. The company's range of products includes Water Circulation, Water Attractions, Heating, Lighting and swimming pool equipment, Measuring and dosing equipment. It exports to over 70 countries around the world and have customers in Europe, Middle East, Russia and Southeast Asia.

**For more information, visit [www.pahlen.com](http://www.pahlen.com).**



Stefan Pahlén, CEO, Pahlén (right) and his colleague Koen Jans, Area Manager, at their booth at Piscine Global Asia 2017 show.

## PoolSan

PoolSan is a leading chlorine-free liquid for swimming pools, medical pools and spas. Manufactured by ACN Chemicals Ltd in France, PoolSan is a safe to handle and easy to use liquid that replaces traditional chlorine in swimming pools and spas.

Rather than being produced slowly on site by a traditional ionising system, the ions are mass produced during the PoolSan manufacturing process. The unique blend of ions is then locked into a solution to form PoolSan, an innovative, easy to dose, completely chlorine-free liquid sanitiser. Because the ions are in a liquid form, they can be added quickly and easily by hand or by an automated dosing system as demand requires.

"We have treated pools in many hotels and resorts in London and we hope to do more for projects around the world," said Thomas Schein, Marketing - Export, Poolsan Pro.

PoolSan is a sustainable and safe alternative to chlorine, bromine, UV and ozone, which is easy to use, odourless, tasteless, kind to the eyes, skin, hair, and your pool and spa.

PoolSan is the official supplier of the French Federation of Swimming. For more information, visit [www.poolsan.eu](http://www.poolsan.eu).



PoolSan was represented by Thomas Schein at the Piscine Global Asia 2017 show.

## Reviglass S.A.

Reviglass S.A. is a producer of recycled Glass Mosaic at its factory in Bidania (Guipuzcoa) in Spain since 1985.

Reviglass is a unique product made from a 100 percent recycled glass, becoming a 100 percent recycled mosaic. Thanks to its advanced technology, it is possible to develop an efficient and environmentally committed resource exploitation process in order to minimise the environmental impact.

### Advantages of Reviglass include:

- 100 percent Post Consumer Recycled Glass.
- 0 emissions: No emissions to the atmosphere.
- Energy saving: The use of recycled glass allows reducing up to 25 percent the consumption of energy during the production process.
- No harmful mountings: The consumption of glass mosaic in paper or in the revolutionary mounting "polyurethane cord" allows respecting the environment with the use of totally innocuous materials.
- None water consumption.
- Packaging: The packaging used by Reviglass is 100 percent recycled carton.

Reviglass exhibits in many trade shows around the world and it was its first time participation in Piscine Global Asia show 2017. "We see a potential for our glass mosaics in Southeast Asia. Currently, we are exporting to Vietnam, Malaysia, Indonesia and Vietnam and now we want to boost our presence in Singapore," said Laida Azurmendi, Export Department, Reviglass S.A.

In Singapore, Reviglass glass mosaic is distributed by Ceramica 28 Contracts & Services Pte Ltd. Ceramica 28 Contracts & Services Pte Ltd was first established in 1988, as a project supplier of ceramic tiles, marble, granite slate, sandstone and mosaic. Presently,

the company specialises in the area of mosaic and swimming pool materials, and is responsible for the material supplies to numerous luxury pool facades in various premium condominiums, Clubs, Good Class Bungalows, Semi-Detached and Terraces. Ceramica 28 Contracts & Services Pte Ltd has had job references ranging from swimming pools, Housing & Development Board projects, schools, institutions, establishments and landmark buildings in Singapore.

For more information, visit [www.reviglass.es](http://www.reviglass.es) and [www.ceramica28.com](http://www.ceramica28.com).



From left to right: Gerard Arriola, Managing Director, Ceramica 28, his colleague and Laida Azurmendi, Export Department, Reviglass S.A. at their booth at Piscine Global Asia 2017 show.

## SplashMe

SplashMe is a smart pool automation technology, representing a new era in pool maintenance and ensuring crystal clear water year-round. By pioneering smart technology and automation, SplashMe simplifies swimming pool and spa maintenance.

### Comprehensive control at your fingertips

A turnkey solution for new or existing pools (with single speed pump systems), SplashMe comes ready to install. Once installed, the system works seamlessly with the SplashMe App (ISO&Android). After a quick calibration, the system can be set to perform according to your specific needs, come rain or shine.

The SplashMe system empowers you to control and monitor the various maintenance tasks and SplashMe features from your phone, including the following:

- Pump speed
- Chlorine and pH levels
- Water temperature
- Water features
- Lighting
- Electric actuator valves for spa setup
- Other auxiliary functions

With three modes and five automated programmable settings per mode, SplashMe boasts unmatched flexibility. This flexibility modes can be pre-set to accommodate various scenarios and conditions, like seasonal changes, being away from home for extended periods and more.

SplashMe is an ideal solution for the modern pool owner looking to maintain optimum swimming conditions throughout the year. It is manufactured by Nymet and distributed in Singapore by Good for Life.

For more information, visit [www.splash-me.com.au](http://www.splash-me.com.au).



Damien Buonsanto, Operations Manager, Nymet (left) and Adam Elson, Company Director, Good for Life at their booth.

## Maytronics

Maytronics, the company behind the top-selling Dolphin brand of robotic pool cleaners, exhibited in Piscine Global Asia 2017 for the third time.

The company showcased its residential and commercial line of pool cleaners to the showgoers, which have set new standards for technological innovation, design and reliability. These easy-to-use robots intelligently adapt themselves to any pool, to achieve the best possible results for your specific pool shape and surface type.

Maytronics' representative office in Singapore was started about one year ago and since then the market has responded well to its products. "We have good marketing support and customers here are able to see the benefits of our products. Our pool cleaners are widely used by local hotels, condos, government facilities and even by pool owners," said Ross Coady, Asian Business Development Manager, Maytronics Singapore.

Maytronics is currently looking for distributors. For more information, visit [www.maytronics.com.sg](http://www.maytronics.com.sg).



Ross Coady, Asian Business Development Manager, Maytronics in Singapore (right) and Daren Lim, Marketing Manager of Menspool Singapore.

## SPECK Pumpen Verkaufsgesellschaft GmbH

SPECK PUMPEN Verkaufsgesellschaft GmbH, located in Neunkirchen, GERMANY, is a leading international manufacturer of high-quality pumps for swimming pool applications, among other things. For more than 100 years, the SPECK brand stands for innovative, customised and sector specific products.

At Piscine Global Asia 2017 show, SPECK exhibited the BADU Block Multi – a plastic pump for public pools. The BADU Block Multi is made completely from plastic and suitable for all kinds of swimming pool water. The surface qualities ensure a permanently improved rate of efficiency and the pump is corrosion-resistant.

The wetted parts are constantly robust, shock-resistant, impact resistant, break-proof, maintenance-free and economical. They are made from technically high-performance plastic, including the volute casing, impeller and filter housing. The previously required expensive coating is no longer necessary.

The pump's resistance was tested in a series of practical experiments.

The results show that the plastic has an unlimited field of application, even with high brine concentrations. The BADU Block Multi can be designed individually according to the customer's needs. As with the BADU Block, it can also be offered with three different motors.

It mirrors the cast iron pump in its construction, dimensions and capacity and can therefore replace it without problem. SPECK Pumpen has extended their range of plastic filter housings to accommodate the high-performance plastic pump. The medium size housing was previously available for the 80, 100 and 125 ranges. Now the range has been extended and is also available for the 32, 40, 50 and 65 ranges.

For more information, visit [www.speck-pumps.com](http://www.speck-pumps.com).



**BADU Block Multi.**  
Photo: © SPECK Pumpen



Armin Herger, Managing Director/CEO, SPECK Pumpen (extreme right) and his colleagues at their booth at Piscine Global Asia 2017 show.

## Extractor Corporation

Extractor Corporation is the manufacturer of SUITMATE®, the original swimsuit water extractor, which is an innovative system that efficiently removes 95 percent of the water from a wet swimsuit in just eight seconds without using heat. The company exhibited at Piscine Asia for the first time to gain exposure to aquatic facilities in Southeast Asia and explore business opportunities with new distribution partners in the region.

For over 30 years, Extractor Corporation has been carefully crafting each SUITMATE® unit in the USA with stainless steel and durable plastic construction to ensure quality and reliability. Today, over 25,000 SUITMATE® units are serving pool and spa facilities in over seventy countries.

The SUITMATE® unit proves not only to be a highly valued amenity for guests, but also for property owners and maintenance staff. The SUITMATE® swimsuit water extractor assists in preventing water damage by helping to eliminate rust, corrosion, odor, mildew, damp carpets, peeling paint, wood delamination, and warping caused by wet swimsuits in facilities with a swimming pool or spa, resulting in a cleaner, dryer environment for all guests to enjoy.

“The SUITMATE® unit has been available in the USA for more than 30 years and since then we’ve seen consistent global growth. While we’ve been supplying SUITMATE® units to various aquatic facilities and spas throughout Asia for over 10 years, we’re very excited to initiate a deeper product launch in Southeast Asia as we see major opportunities in the region,” said Michael Stone, Business Development, Extractor Corporation.

For more information, visit [www.suitemate.com](http://www.suitemate.com).



Lindsay Hoffman, Vice President and Michael Stone, Business Development of Extractor Corporation posing with the SUITMATE® at their booth.

## Saci pumps



Francisco Casellas at the Saci Pumps booth at Piscine Global Asia 2017 show.

Saci pumps is a Spanish pump manufacturer since 1975. Its main products are swimming pool pumps for domestic and commercial pools, multistage pumps, fire fighting units and Variable Frequency drives.

The company has launched many new products in 2016 and 2017 and they include: Smart Optima, Smart Winner, and [e] Winner. All of the company's products are based on innovation and the electronics make the end user to easily interface with the product.

“We design products that are easy to use for people who are not used to these products. Our products have high efficiency and energy-saving features,” said Francisco Casellas of saci pumps.

In Singapore, saci pumps is distributed by Pool Connect Pte Ltd.

For more information, visit [www.sacipumps.com](http://www.sacipumps.com) and [www.epoolconnect.com](http://www.epoolconnect.com).

# A GUIDE TO CHOOSING THE RIGHT CEILING SYSTEM

**C**eilings are an important component of any building design, for they affect the look and feel of a room. They also save energy cost and protect the wiring in the room. There are many types of ceiling materials in the market and they range from metal and cement to glass fibre and wood fibre and many more.

Usually, the architect or interior designer will specify the ceiling material according to the function of a space. In addition, aesthetics, safety, cost effectiveness also play a part in how a ceiling product is suitable for a project.

Over the next few pages, you can read the insights from leading ceiling systems manufacturers on how a ceiling product should be specified, the different materials in which they are available and the trends that are emerging in ceiling designs.

# An Interview with USG Boral Singapore



**Mr. Max Shih, Ceilings Manager at USG Boral Singapore, shares his thoughts.**

Photos supplied by USG Boral Singapore

**Q: A ceiling system is an important component of interior finishes. How should a ceiling system be chosen for use indoors?**

**A:** Design and material considerations for an indoor ceiling system vary greatly between projects, and as such there are many different criteria to consider including safety, functionality, aesthetics, the area of application, system lifespan, ease of maintenance, cost effectiveness and product brand value. However, five key factors stand out as crucial:

**Safety:** Loading capacity of the ceiling system / fire resistance rating / sag resistance / Volatile Organic Compound (VOC) emission levels.

**Functionality:** Acoustic performance / light reflectance (LR) / humidity resistance / anti-bacterial properties / anti-mould properties / humidity control / odour absorption / impact resistance / lighting integration.

**Aesthetics:** Plain monolithic finish / 3-Dimensional (3D) designs / visual-impact cloud perimeter trim / artistic canvas perforation / timber coated finish.

**Application:** Commercial / healthcare / transportation / education / laboratory / hospitality.

**Ease of maintenance:** Effortless cleaning / lifespan / washable and scrubbable / warranty commitment from manufacturer.

Each of these factors has a major impact on the effectiveness of the room in achieving its objectives, and should be carefully considered before choosing a ceiling system.

**Q: What functions do ceiling systems perform besides affecting the look and feel of a room?**

**A:** While a good ceiling system certainly does create a look and feel that is desirable to its users, many are unaware of the vast functional benefits that a ceiling system can also provide. To be specific, a good ceiling system can have a positive effect on the room's acoustic performance, light reflectance (LR), humidity control and, in cases of special applications such as healthcare, the environment.

Acoustic performance is critical in order to create a pleasant environment for the intended purpose of any space. A standard measurement of acoustic performance is the Noise

Reduction Coefficient (NRC) value of the ceiling material used, and in optimising the NRC we also consider the total surface area of the room (m<sup>2</sup>), the volume of the room (m<sup>3</sup>) and the reverberation time, as these factors affect the eventual absorption of noise (in decibels-dB) in the room.

## Calculating NRC Value

$$T_{60} = \frac{0.161V}{-S \times \ln(1 - \alpha)}$$

T: Reverb. Time (sec)

V: Volume of room (m<sup>3</sup>)

S: total surface area of room (m<sup>2</sup>)

α: Average NRC of materials inside

In addition to sound acoustic performance, an efficient ceiling system should also take into account the light reflectance (LR) of the ceiling material, as insufficient lighting can cause eyestrain, thus affecting levels of comfort and productivity. This is especially important for schools and offices, and in such instances USG Boral recommends a LR of 0.83 and above.

Lastly, humidity control is yet another essential function achievable by selecting the right ceiling material and system, and this is especially important in a humid climate such as Singapore's. In situations where it is critical to absorb and release moisture content, such as in laboratories or storage spaces with electronics, we recommend the use of mineral fibre ceiling tiles (MFCT).

**Q: What are the different materials that ceilings are made of?**

**A:** Ceiling materials are made of metal (steel, aluminium, stainless steel), cement, mineral fibre, glass fibre, glass wool, rock wool, calcium silicate, wood fibre, plastic and gypsum. Each of these materials serves various purposes and can be used in diverse applications based on preference and the desired performance level.

**Q: How to decide which ceiling material is right for your space?**

**A:** When identifying the right ceiling material, first consider the intended purpose and application of the space in question.

**Public transportation areas:** Noise pollution is a common problem in public transportation areas, and the first step in choosing a ceiling material is to identify the frequency (Hz) of sound that will be most prevalent. If the main source of noise is from low-frequency sounds (such as the machinery of trains), USG Boral recommends using acoustically perforated metal ceilings with micro-perforation to effectively combat noise



pollution. Metal ceilings are also an ideal choice in public areas due to their durability and low maintenance.

**Commercial offices:** Mineral fibre and glass fibre ceiling tiles are typically preferred in commercial offices as its high Noise Reduction Coefficient (NRC) performance helps to reduce echo effectively, creating a pleasant office environment.

The Ceiling Attenuation Class (CAC) is another critical reading that helps maintain conversation privacy by reducing the noise transmission between adjacent rooms. In scenarios where walls are not constructed to the structural ceiling, it is recommended to choose a high CAC ceiling tile. However, it is important to note that most mineral fibre and glass fibre ceiling tiles in the market with high NRC performance typically come with lower CAC performance too.

**Healthcare/Lab/Cleanroom:** Several criteria have to be considered in the context of healthcare, as depending on the usage area(s) (such as corridors, consultation rooms, operation rooms or even semi-outdoor spaces) the ceiling material considerations vary accordingly. USG Boral recommends our Healthcare Series mineral fibre and glass fibre ceiling tiles that are anti-bacterial, anti-mould, water repellent

and have low particle emission. These ceiling tiles come with square edges and a plain texture to avoid dust accumulation, making them ideal for use in a healthcare setting.

**Education:** Good acoustic and light reflectance (LR) performance is pivotal in creating a conducive classroom environment. USG Boral recommends mineral fibre ceiling tiles with high Noise Reduction Coefficient (NRC) performance to improve speech clarity within classrooms (especially crucial for students sitting at the back). Mineral fibre ceiling tiles with good LR performance should also be considered to prevent eyestrain and poor concentration due to insufficient lighting.

**Hospitality:** Interior design in hospitality and resort environments is vital, and a good ceiling design reflects a hotel's branding and quality standards. To create a truly unique aesthetic experience that sets your design apart from others, we recommend using metal and specialty ceilings which allow you the flexibility to create a variety of distinctive and iconic looks. Some of the finishes worth considering include visual-impact cloud perimeter trims, 3-Dimensional designs, artistic canvas perforation designs and timber coated finishes.



Curvatura™ 3-Dimensional Ceiling System by USG Boral

**Q: Based on your recent projects, can you highlight some of the trends in ceiling designs?**

**A:** We carry out projects in a wide variety of industries, but one area where we have noticed great change is in the field of healthcare. With the increase of healthcare projects in Singapore, there has been a growing demand for innovative ceiling products that ensure a cleaner, healthier and better environment, and many facilities are becoming more discerning in their choice of ceiling products.

Aside from healthcare, demand for unique and modern ceiling designs (achieved with metal and specialty ceilings) that meet Singapore's safety standards and regulations will continue to be on the rise across all sectors, especially with the increase in public transportation projects.



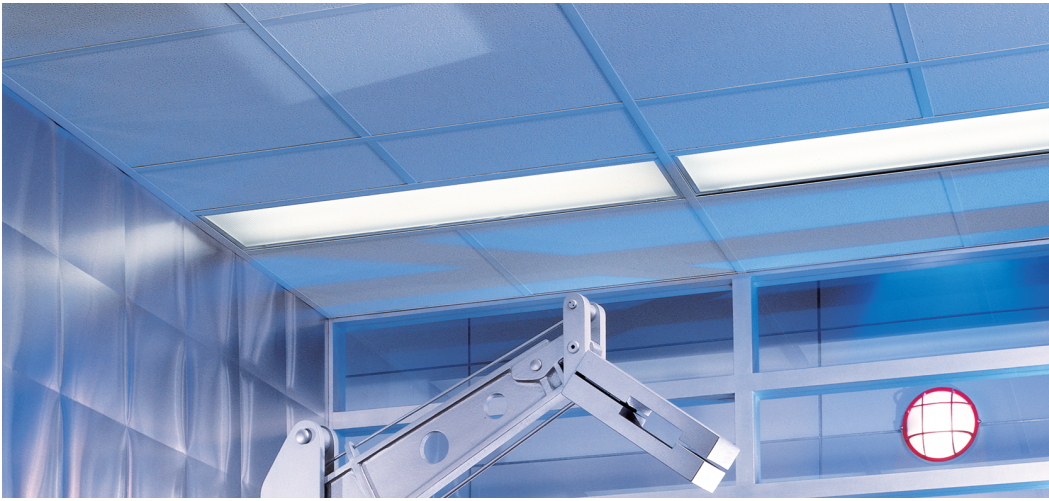
Clean Room™ ClimaPlus™ Mineral Fiber Ceiling Tiles by USG Boral



C² Paired Compasso™ Channels by USG Boral



Topo™ 3-Dimensional Ceiling System by USG Boral



Clean Room™ ClimaPlus™ Ceiling Panels for Restricted and Semi-Restricted environment



Taiga Hygiene Ceiling Panels for semi-restricted areas

# HEALTHCARE CEILINGS MADE EASY WITH USG BORAL

Of late, both public and private sectors are paying additional attention to improving the environment of healthcare facilities. As these medical centres strive towards cleaner and healthier surroundings, the comfort and well-being of not only medical personnel and patients but also visitor is at stake.

From the viewpoint of ceiling system design, then, what are the relevant healthcare applications and the aspects that define them? Furthermore, what materials are proven to be best for healthcare facilities and how can one ensure the ceiling materials conform to such stringent healthcare requirements? USG Boral makes it easy for our customers by first understanding the required functional properties.

## Essential functional properties of ceiling materials (healthcare):

- Coating or lamination on all exposed sides of the ceiling tiles to minimise particle release.
- Washable, scrubbable and soil resistant finishes that can be regularly cleaned and disinfected.
- Acoustic control to reduce the sound of voices, footsteps and trolleys in crowded corridors and wards.
- Fire protection properties.
- Control of smoke/pressure/moisture.
- Water repellent membrane to prevent mildew growth.
- Anti-microbial features.
- Light-coloured matte panel surface to better diffuse light reflection.
- Concealed ceiling system coupled with square-edge panels to avoid mould growth and dust accumulation.

A good rule-of-thumb when choosing the right ceiling panels is to define the type of space (waiting area/corridor/wards/consultation room/operation room) in the healthcare facility. The below table offers a summary of requirements required for the various room types.

Type of Healthcare Area	Room Type	Functional Requirement(s)	Recommended Lay-in Ceiling Tiles from USG Boral
Non-Restricted	Lobbies, waiting rooms, restrooms, non-restricted corridors.	No specific requirements.	I. Halcyon™ ClimaPlus™ II. Mars™ ClimaPlus™ Healthcare III. Sonata
Patient Care	Clean utility (storage rooms), nourishment rooms, patient rooms, pharmacies, central services areas, laboratories, nurse stations, work areas for storage and nurseries.	Easy to maintain, good acoustic properties.	I. Halcyon™ ClimaPlus™ II. Mars™ ClimaPlus™ Healthcare III. Sonata
Dietary & Laundry	Food preparation areas, food storage areas, washing and laundry areas.	I. Smooth finish. II. Scrubbable. III. Non-absorptive, non-perforated, durable, able to withstand chemical cleaning. IV. Weighs at least 5kg/m <sup>2</sup> with CE certified grids and hold-down clips to prevent the passage of particles above ceiling plane.	I. Clean Room™ ClimaPlus™ II. Sparta™
Semi-Restricted	Airborne infection isolation rooms, clean corridors, sterile supply units (SSU), intensive care units (ICU), radiographic rooms, minor surgical rooms.	Same requirements as dietary and laundry areas with additional conditions of non-exposed edges and non-textured (plain) tiles to prevent accumulation of dust and growth of mould	I. Clean Room™ ClimaPlus™ II. Taiga Hygiene
Restricted	Operating rooms, sterile and protective environment rooms.	Non-acoustic tiles, monolithic smooth surfaces with no perforation to ensure a sterile and clean environment.	I. Clean Room™ ClimaPlus™

## FGI 2010 guidelines for design and construction of healthcare facilities

As a global leader in manufacturing ceiling suspension systems and premier acoustic ceiling panels, USG Boral specialises in healthcare research and the development of new products for this growing sector. In line with rising supply and demand across the globe, we are dedicated to the development of new, breakthrough products.

Also, USG Boral commits to a 30-year warranty for our ceiling systems, so you are protected against product damage caused by water stains, mould growth, damaged edges, cracking or sagging, which can occur in products of an inferior quality.



Mars™ ClimaPlus™ Ceiling Panels for Patient Care areas

**A good rule-of-thumb when choosing the right ceiling panels is to define the type of space in the healthcare facility.**

Visit [www.USGBoral.com](http://www.USGBoral.com) for more information

**USG BORAL**  
INNOVATION INSPIRED BY YOU.™

## An Interview with **Knauf AMF**

*Riedl Andreas, Director Sales Middle East, Asia Pacific shares his thoughts.*

Photos supplied by Knauf AMF



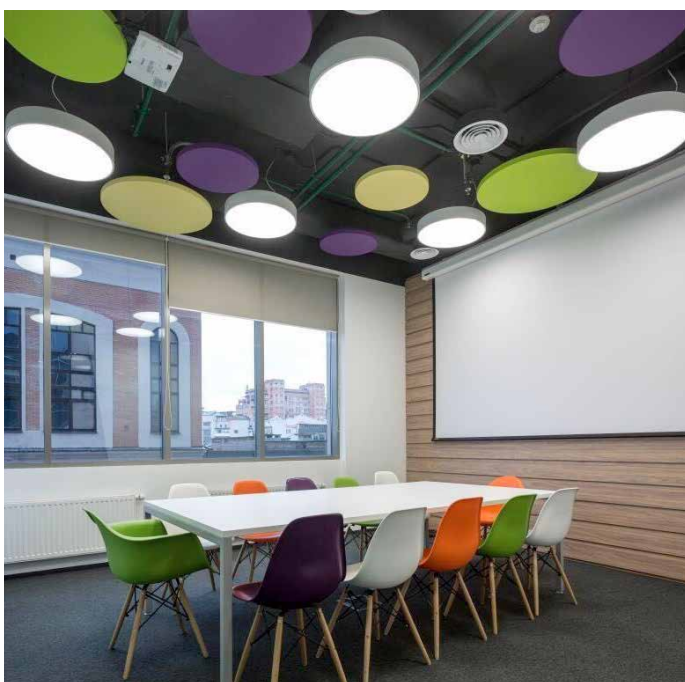
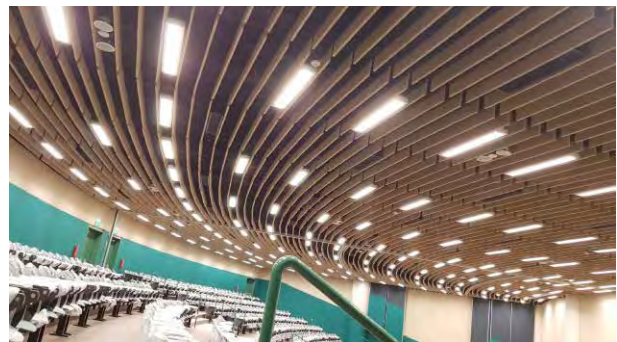
**Q: A ceiling system is an important component of interior finishes. How should a ceiling system be chosen for indoor use?**

**A:** Ceiling for indoor uses are primarily chosen based on its function acoustical requirement. Be it Noise Absorption to mitigate echo or Sound Insulation to preserve speech privacy, Knauf AMF has complete system solutions to meet these initial objective and then subsequently the aesthetic consideration, customised performance such as hygiene and anti-bacteria, maintenance friendliness and robustness etc.

**Q: What functions do ceiling systems perform besides affecting the look and feel of a room?**

**A:** Knauf AMF ceiling can contribute significantly to the safety and function of a building. For healthcare and clean environments, Hygienic ceilings are specially developed to repel bacteria and are easy to clean.

Ceilings with impact resistance are designed to withstand wear and tear in high activity spaces, for example, in schools and sports halls. All Knauf AMF ceilings provide superior fire resistance to help prevent the spread of fire.



Ceilings contribute to the energy efficiency of a building. Ceilings with bright white surfaces offer high light reflectance and light diffusion which maximises the use of natural daylight, producing the optimum conditions for a comfortable environment, reducing the need for artificial light.

All Knauf AMF ceilings offer outstanding sound absorption and sound insulation creating ideal for optimum speech intelligibility and creating a healthy acoustic environment.

**Q: What are the different materials that ceilings are made of?**

**A:** Knauf AMF offer products manufactured from metal, wood, mineral and soft fibre. Knauf AMF specialist modular ceilings are manufactured using a variety of materials including wood-wool from certified PEFC and FSC forests; bio-soluble mineral wool, perlite, clay and starch which are natural, sustainable and renewable.

**Q: How to decide which ceiling material is right for your space?**

**A:** The function and interior design of a space are the main



# A Leading Ceiling Manufacturer based in Germany



## Knauf AMF create versatile ceiling solutions for every interior

Knauf AMF is a global manufacturer of innovative, high performance ceilings, wall panels, rafts, baffles and grid systems which deliver quality acoustics with exceptional appearance to help create stunning interiors. With manufacturing plants in Germany and Austria, Knauf AMF has among the most technologically advanced, ecologically-sound factories in Europe. Knauf AMF has an excellent distribution and consultancy service for architects, trade specialists, merchants and building owners.

The Knauf AMF range: AMF THERMATEX®, HERADESIGN®, AMF TOPIQ®, AMF MONDENA® and AMF VENTATEC® confirm the company's position in the market as a complete system solutions provider for many applications including education, healthcare, commercial, industrial, leisure and retail.

### AMF THERMATEX®

AMF THERMATEX® is a range of high density mineral ceiling tiles, planks, ceiling rafts and baffles offering outstanding sound absorption and sound insulation. AMF THERMATEX® ceilings have up to 100% humidity resistance and are classed as non-flammable. The bright white surface of AMF THERMATEX® offers over 90% light reflection which naturally helps to improve the conditions in a space.

The Knauf AMF Health and Hygiene ceiling range is specially developed to control noise in healthcare and clean room environments. The range incorporates anti-bacterial technology which helps prevent the spread of infection.

### HERADESIGN®

HERADESIGN® acoustic ceiling and wall panels provide colour and texture which add a sense of warmth and visual impact to an interior. HERADESIGN® has visible wood-wool fibres that give it its distinctive textured finish. HERADESIGN® is unique in that it can be made



to match any colour as a ceiling in an exposed or concealed grid system, and as rafts, baffles or wall absorbers. HERADESIGN® is durable and offers excellent impact resistance.

### AMF TOPIQ®

Manufactured from rock mineral wool, AMF TOPIQ® ceiling tiles and rafts are lightweight, easy to install and create innovative ceiling designs. AMF TOPIQ® provides superior sound absorption, the highest rating for fire safety – A1 reaction to fire, and 100% RH moisture



resistance. The tiles offer aesthetic appeal too, with a clean, streamlined and elegant appearance. AMF TOPIQ® is available in a choice of colours offering the perfect fit for any interior.

### AMF MONDENA®

Metal is a versatile and durable ceiling material which lends a contemporary industrial chic to both modern and classical interiors. AMF MONDENA® acoustic metal ceilings are available in a choice of dimensions, shapes, edges, face patterns and colours to produce unique designs that express creativity. AMF MONDENA® is ideal for many applications including offices, clean room areas and retail outlets.

### AMF VENTATEC®

Knauf AMF grid systems are designed to accommodate all edge types and are quick and simple to install. Fastening with an audible click, AMF VENTATEC® guarantees stability, safety and flexibility during construction. The versatility of AMF VENTATEC® enables specifiers to create ceilings that meet the most demanding specifications.

The team at Knauf AMF provides unrivalled technical support and specialist product knowledge to help you achieve your desired result. Visit [www.knaufamf.com](http://www.knaufamf.com) for more information.

### Contact your local representative :

Australia	Mr Fabian	+61 433 305222
China	Mr Alex	+861 3764309004
Middle East	Mr Sreejth	+971 506407172
India	Mr Teddy	+91 98671 56564
Iran	Mr Saeed	+98 912/45 85 301
Taiwan & SEA	Mr Hugo	+886 932 156 066
Singapore	Ms Thena	+65 83751632
Germany	Mr Stefan	+49 1512 3533235



drivers for determining the choice of material. A specifier will have an idea of the look and feel they want: whether it's a white ceiling to create a minimalist look, a textured appearance to add depth to a design, or ceiling rafts or baffles for visual impact. Some environments have stringent performance requirements, for example, a hospital or swimming pool where the ceiling must perform specific functions in regards to humidity resistance and hygiene to ensure the space can operate successfully.

**Q: Based on your recent projects, can you highlight some of the trends in ceiling designs?**

**A:** The biggest innovation is the choice of textures, colours, shapes and suspension systems that allow specifiers to create clever and visually appealing ceilings which satisfy demanding acoustic and other performance criteria.

There has been a strong uptrend of different hanging options for suspended ceilings which bring about a new aesthetical dimension to a space. Island Ceiling Rafts in different shape and curvature, and Linear Baffles are versatile products because they can fit in areas where a traditional suspended ceiling is not suitable, and create a 3-D design that is not boring and in fact eye-catching.

Knauf-AMF technology allows more Digital Printing on the Mineral Fiber Ceiling and Wall Absorber helps to create corporate and design identity without compensation to acoustic performance. Face Routing and thickness & size variants from Knauf-AMF range of Heradesign Wood Wool also add another options that ID can adopt to achieve a very profound and highly restrictive design intent that differentiate one very distinctively.

Growing awareness of environmental issues and changes to building regulations have driven demand for ceiling products that are sustainable and can be recycled with ease. Knauf AMF has whole host of products that meet all types of challenging requirement while do not compromise on its acoustical performance.





# MYANMAR BUILD & DECOR

Building Materials, Interior, Furniture & Decor

4<sup>th</sup> Edition of Myanmar Build & Decor

## 5 - 7 October 2017

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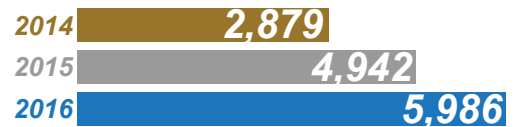
### Fast Facts

- Myanmar's construction sector registered a 7.2% compound annual growth rate from 2011 to 2015, and is set to carry a 10.37% annual growth rate from 2016 to 2020.

- Myanmar construction industry's value stood at US\$8.2 billion in 2015, and is anticipated to value US\$13.5 billion in 2020.

- FDI in 2015-16 real estate sector raked in roughly \$345 million worth of foreign investment flowed into the real estate market in Myanmar through the end of January 2016 with nearly \$100 million of that sum invested in January alone.

### Growing Number of Visitors



### Exhibitor's Feedback



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## An Interview with **Durlum Asia Limited**

*S.Y. Chan, Area Sales Manager – Asia Pacific, Durlum Asia Limited, shares his thoughts.*

Photos supplied by Durlum Asia Limited

**Q: A ceiling system is an important component of interior finishes. How should a ceiling system be chosen for use indoors?**

**A:** Selection criterias are based on accessibility, life span, budget allocation, aesthetic appearance, modularity with planning grid and size integration with M&E services. Example: Office space for rental, mid life span, moderate budget, fix sizes, 600mm modular, and frequent access required. Solution: Visible support grids, with plasterboard / mineral fiber / metal lay in tiles in 600x600 / 600x1200mm.

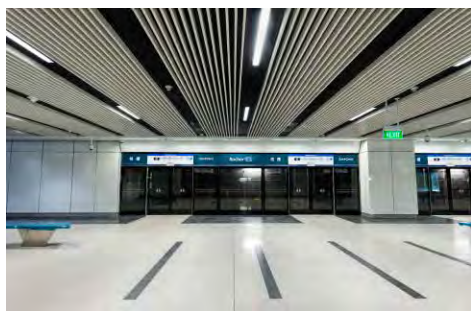


**Q: What functions do ceiling systems perform besides affecting the look and feel of a room?**

**A:** Ceiling can act as a support platform for M&E services, provide sound absorption or sound isolation to an interior space.

**Q: What are the different materials that ceilings are made of?**

**A:** Ceiling panels can be made out of plasterboard, calcium silicate board, wet felt mineral fiber, woodwool, mineral wool, stretch membrane, galvanized steel, aluminium and stainless steel.



**Q: How to decide which ceiling material is right for your space?**

**A:** Public space normally can afford higher budget, longer life span and good aesthetics ceiling material. If enclosed space, added requirement will be ceiling material with acoustic properties. Example: Underground subway station would normally require design metal ceiling with acoustic properties, accessible and long life span.

**Q: Based on your recent projects, can you highlight some of the trends in ceiling designs?**

**A:** Public areas designers are more inclined to use vertical lattice ceiling, we refer as baffle ceiling, expanded metal for light and air penetrating ceiling material as well as stretch membrane with lighting to bring out some focal areas.

Photos above: Rochor MRT Station, Singapore



National Art Gallery, Singapore



Science Park, Hong Kong



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## An Interview with Lindner Group

*Martin Schmidhuber, Regional Director China & South East Asia, Lindner Group shares his thoughts.*

Photos supplied by Lindner Group

**Q: A ceiling system is an important component of interior finishes. How should a ceiling system be chosen for use indoors?**

**A:** This very much depends on the interior design concept, the floor plan and designated use and the applicable building regulations. You have to realise all requirements of the project before you can make a qualified decision. The range of applications and products is enormous, so as an experienced manufacturer we always offer to consult with us at a very early stage.

Generally speaking, a ceiling can serve the purpose of a room in much more ways than one might expect. It can, for instance, be designed as sound absorbing to regulate acoustics within a room or sound insulating between two adjacent rooms. It may carry integrated lighting or be designed as a luminous ceiling. By including and discreetly concealing vital functions, the suspended ceiling actually can solve design challenges hence opening up new perspectives to think and develop the interior design.

**Q: What functions do ceiling systems perform besides affecting the look and feel of a room?**

**A:** The visual effect of a well-designed high-quality ceiling surely is striking. However, there are some highly valuable assets to a ceiling system which are not so obvious at first glance but which require all the more engineering and manufacturing capabilities, for instance fireproofing, lighting, ventilation, acoustics, and also accessibility. The void above a suspended ceiling usually contains a network of vital building services which have to be looked after on a regular basis. Depending on



Perth Airport in Australia, a project by Lindner Group. Photo: © Douglas Mark Black

the maintenance interval at certain access points, an easy-to-open ceiling solution will make a huge difference, both ergonomically and financially.

A ceiling can smoothly integrate heating and cooling technology.

Lindner chilled ceilings, also called radiant ceilings because of their operating mode, significantly influence the atmosphere of a room by regulating the temperature within.

As mentioned, room acoustics is another major field suspended ceilings can contribute to. Whether it is installed over the entire area or as independent canopies, the sound absorbing properties of a perforated ceiling surface regulates the distribution of sound within the room. To make sure that a ceiling fulfils its designated task within the overall acoustic concept of a building or space, Lindner has in-house specialist building engineers to determine and constantly further the acoustic properties of different ceiling types and, foremost, to help find the best solution for our clients' projects.

**Q: What are the different materials that ceilings are made of?**

**A:** Most common materials used for the manufacture of suspended ceilings are gypsum plasterboard, mineral fibre, wood, aluminium and steel. At Lindner, we specialise in metal ceilings, steel sheet panel with aluminium substructure, usually with a smooth powder-coated visible surface.

**Q: How to decide which ceiling material is right for your space?**

**A:** On the one hand, it is of course a matter of taste and the interior design you want to achieve. On the other hand, it is up to the technical requirements of the specific application, such as acoustics, fire regulations, maintenance friendliness, environmental compatibility and durability. From our point of view, a metal ceiling is the most versatile choice by far. It seamlessly integrates all of these functions while leaving you countless options to determine its appearance, e.g. by choosing the ceiling module dimensions and the visible or concealed substructure. And with their unrivalled durability, metal ceilings also are highly economical.

**Q: Based on your recent projects, can you highlight some of the trends in ceiling designs?**

**A:** One of the most dominant trends is the factory-made integration of additional technical functions, such as lighting



and heating and cooling technology, into ceiling systems. Chilled ceilings are capable of creating a healthy and pleasant room climate for the occupants. With their silent, draught-free and energy-saving operation, chilled ceilings are an economically recommendable and environmentally friendly alternative to conventional air conditioning.

Another trend is the introduction of new materials with high effect finishes, like textured surfaces or metal meshes for ceilings, which allow designers to explore and create new ambiances, while fulfilling technical requirements at the same time, such as fireproofing or acoustics. Lindner is a pioneer in applying new materials to well-tested systems thus offering solutions, which are both innovative and highly reliable from the very beginning, even if they are developed or altered to the specifications of a single project.



Mall Bay in Australia, a project by Lindner Group.



Lindner Group offers an extensive range of high-quality ceiling systems that meet even the most sophisticated demands with regard to appearance and functionality, such as acoustical performance.

info@Lindner-Group.com.cn  
www.Lindner-Group.com

 **Lindner** | Building New Solutions

## An Interview with Hunter Douglas Asia



*Azeman Ghazali, Regional Sales Director - Hunter Douglas Asia Operations shares his thoughts.*

Photos supplied by Hunter Douglas Asia

**Q: A ceiling system is an important component of interior finishes. How should a ceiling system be chosen for use indoors?**

**A:** Hunter Douglas ceiling systems are worldwide traded under three key sub-brand namely Luxalon® Metal ceilings, Techstyle® Acoustical Ceilings and Tavola™ Beams and baffles. Luxalon® and Tavola™ ceiling are meant for both interior and exterior while Techstyle® Acoustical ceiling solely for interior.

With continuous innovation, in 2016 Hunter Douglas has developed another interior ceiling system under the brand name of HeartFelt®, which is the first modular felt ceiling system and early this year HeartFelt® has won the Red Dot, Best of the Best award for top design quality in the category Product Design 2017. With HeartFelt® we created an extraordinary innovative design. (Red Dot : Product Design is a well-established international design competition. A jury of 40 independent designers, design professors and specialist journalists tested, discussed and assessed each individual

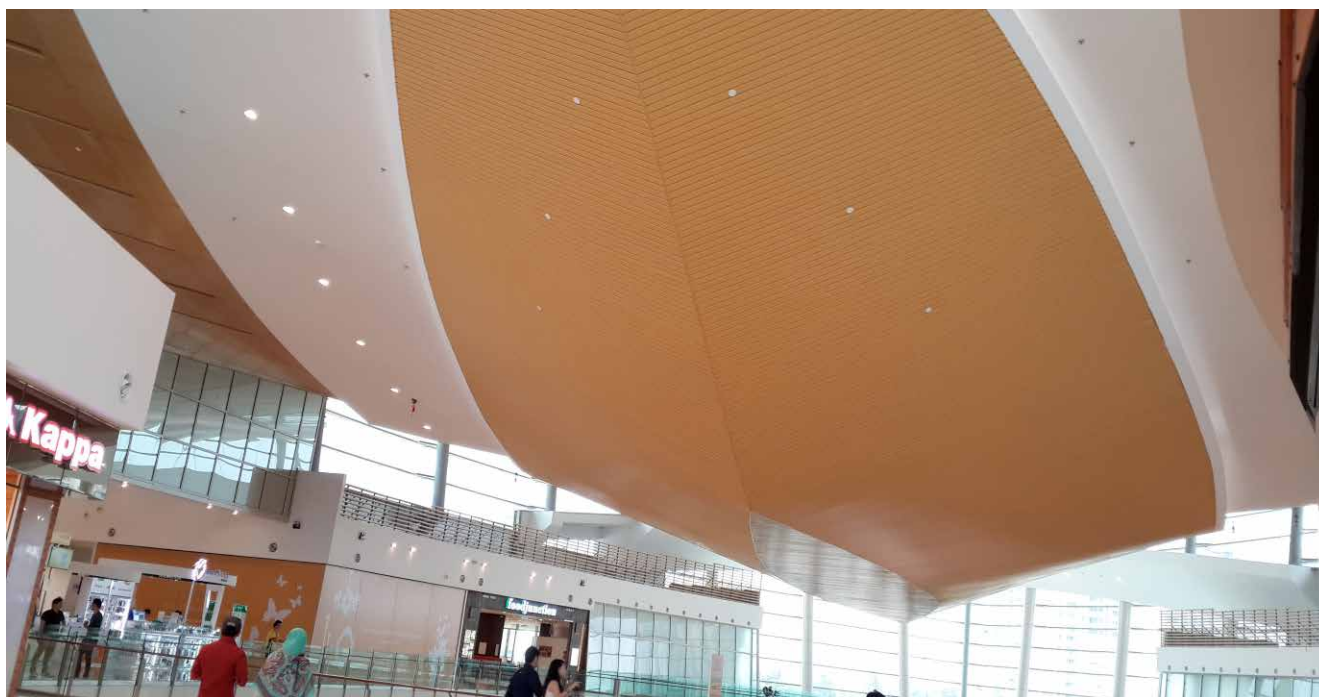
product, awarding for a well-conceived detail solution, the Red Dot for high design quality and the Red Dot Best of the Best for ground-breaking design. In total, the competition received more than 5500 entries from 54 countries.)



As ceiling system is one of the key components of interior finishes, which mostly are enclosed environment, the selection of ceiling will very much depend on design, function and comfort level that the designer and/or occupants want to achieve.

The wide selection of shapes and sizes of ceiling, which traditionally categorised as Linear, Wide Panel, Tiles, Planks, Grid, Honeycomb and Customs, as well as the extensive colours range will enable the ceiling to blend in seamlessly with the overall interior designs, or the ceiling system selected to generate a bold finishes statement by either the designer or users themselves.

While the function of the interior space will greatly determine what suitable materials, shapes and coating finishes, critically important to have high fire resistance rating



IOI Shopping Mall in Putrajaya, Malaysia – A project by Hunter Douglas.

ceiling, favourable light reflectance to enhance brightness and at the same time reducing the consumption of electricity, or ceiling with the high sound or noise absorption level needed to ensure overall comfort for indoors activity like library, museum or home ceiling etc, which will be the opposite of auditorium or music room or clubs where suitable ceiling with sound reflection is greatly needed to ensure well distribution of the sound to the audience.

In addition to floor and wall surfaces, ceiling also play a very important role generating comfort for the user, with all the above mentioned design and selection of functions, the ceiling system also creating an air gap buffer for heat insulation which can be enhanced further by adding insulation materials. Some ceiling even been used to enhance the ventilation of indoor smoke generated machines or sources.

The ceiling also act as covers against unsightly view of the under steel or timber roof structures or even concrete slabs and beams, with various mechanical pipes and electrical wiring or conduits installed, leaving only the pleasant mechanical and electrical fittings such as light, air-con grill, sprinkler, etc, visible.

Selection of ceiling materials and finishes are also critical to ensure no paint particles loosen after some time which will be affecting the indoor air quality.

Finally, most of the ceiling system also should act as a fire barrier to prevent any occurrences of fire to reach the structural component of the buildings to prevent or delay collapse and allow sufficient time for the occupant to escape safely.

**Q: What functions do ceiling systems perform besides affecting the look and feel of a room?**

**A:** Hunter Douglas ceiling systems are able to meet an extensive functional requirements as mentioned above from light reflectance to ensure acceptable brightness and heat level, sound absorption and sound transmission control, improve interior air quality and visual as well as fire barrier between the occupant to the top structures.

**Q: What are the different materials that ceilings are made of?**

**A:** Hunter Douglas ceiling materials are extensive from the traditional Metal of Aluminium or Steel, to other metals like copper and brass etc, as well as Textiles, Felt, Wood and Resin.

**Q: How to decide which ceiling material is right for your space?**

**A:** Hunter Douglas support our business partners with a wide range of technical consulting and support services for architects, interior designers, developers, installers, or even by owners themselves providing them design proposals to meet the design, functional and comfort requirement conveyed from the preliminary meetings. The design proposal and estimated budgetary cost will include materials, shapes and dimensions,



Kuala Lumpur International Airport – A project by Hunter Douglas.

colours and finishes, mock up and samples, visualisations and mounting drawings to help the architects or interior designers to decide the right material to be used for their building.

**Q: Based on your recent projects, can you highlight some of the trends in ceiling designs?**

**A:** The most important requirement of any ceiling design to an interior space of a building, will be the overall selection of system to meet the design, functional and comfort requirements of designers and users which will be affecting the overall efficiency and productivity of the occupants as well as ease of maintenance. At the same time, the selection also needs to be influenced by the designer with information on the green production materials and processes.

Some of the current popular trends in ceiling design now are the use of timber finishes instead of real timber, be it meranti, oak, bamboo etc; of which the timber finishes with grain pattern been printed onto a more durable, recyclable and fire resistance base materials like aluminium or steel. In this ceiling application, the nature continues to be preserved without the need to cut any trees, and the safety against fire also always been address, couple with if any reject or defect scrap during the production process, or after installation, the materials are recyclable for future use without digging deeper into earth to source for a new materials.

Hunter Douglas is the pioneer of this timber grain finishes production and application in Malaysia, with the application of close to 150,000 square metres of timber grain finishes ceiling system to the new KLIA airport in 1996.

Since then, more and more timber grain finishes had been added into the range, and new varnish timber grain finishes had been developed to further protect the grain durability as well as providing scratch resistance surface to the timber finish ceiling system. Besides airports, the timber finishes are suitable for residential, retails, showrooms, and major shopping complexes around the country of which the latest being Genting premium Outlet in Genting Highlands, Malaysia.

## An Interview with Architect & Interior Designer

*There are many ways architects and interior designers select ceiling products for their projects. Here, we ask an interior designer and two architects on how they choose a ceiling product and the reasons behind their choices.*



**Firm:** CPG  
Consultants Pte. Ltd.  
**Architect:**  
Martin De Castro  
**Designation:**  
Principal Medical  
Planner for CPG  
Healthcare Division  
**Location:** Singapore

**Q: What material or system do you prefer to use when designing the ceiling for a room?**

**A:** We typically detail and specify the following ceiling types in our projects:

- Cloud Ceilings
- Mineral Fiber Acoustical Ceiling Tiles (Tegular)
- Fiberglass Acoustical Ceiling Tile (Tegular)
- Gypsum Boards (all types)
- Calcium Silicate Board
- Metal Pan Ceiling Tiles with Felt backing and insulation
- Hermetically Sealed Ceiling (for Operating Rooms and other clean rooms)
- Perforated MDF Board for Auditoriums and Training Halls
- Wood Wool For Auditoriums and Training Halls

**Q: What are the reasons for choosing that particular ceiling material / system for your projects?**

**A:** We typically specify these ceiling materials for the following reasons:

- Sound Absorption Properties (NRC)
- Sound Blocking Properties (CAC)
- Light Reflectance
- Recycled Content
- SAG Resistance (measured in RH%)
- Fire Rating
- Washability
- Size of perforation (the smaller the better)
- Light Reflectance



**Firm:** RSP Architects  
Planners & Engineers  
(Pte) Ltd  
**Architect:**  
Sonny Chionh  
**Designation:**  
Architect and  
Associate Director  
**Location:** Singapore

**Q: What material or system do you prefer to use when designing the ceiling for a room?**

**A:** The most important factor for me is its sound absorption properties. Given the nature of its location (where it is less susceptible to damage), it is in the right position to be of absorbent materials which quite often necessitate it to be of a softer materials.

**Q: What are the reasons for choosing that particular ceiling material/system for your projects?**

**A:** In terms of systems, I do not have any preference. As a person who believes in sustainability and if given the chance, I would not specify ceiling if there is no need for acoustic solutions to the room. It thereby reduces the need for another set of construction materials that can be saved together with the associated labour. Without these ceiling, it also helps in allowing maintenance/servicing/repair to be carried out with more ease. If there are a small number of services in the room, more thought and effort could be put into looking at how these services can be routed or managed in a visually pleasing manner.

However, if there are services to be concealed, I would base my selection on the ease of installation and the ease of access to enter into the ceiling plenum. Proprietary systems that are purposefully designed to meet acoustics and structural support performances while at the same time demonstrating the

ease of installation and access would be on top of my list. Another aspect is the visual aesthetics. Quite often, designers underestimate the power of the ceiling. Clearly the ceiling is another large palette for designers to create an experience of the space that it sails over. I would encourage designers to take some time to explore the potential.



**Firm:** Studio HBA  
**Interior Designer:**  
Rahul Shankwalker  
**Designation:**  
Partner, Studio HBA  
**Location:** Singapore

**Q: What material or system do you prefer to use when designing the ceiling for a room?**

**A:** Each of our specified materials and systems are as unique as the projects we design, as such there is not one specific system or material I usually use in my designs. It entirely depends on the needs of the design and what is that we are trying to create. We have used materials ranging from concrete, plaster board to metal. It all really depends on the need of the space and what enhances the project the most.

**Q: What are the reasons for choosing that particular ceiling material / system for your projects?**

**A:** In order to create the illusion of height, I like to use glass tile as it helps to bring a sense of vertical space to a room. I have used concrete when we needed a raw, yet refined and sophisticated industrial look. I've even used plaster boards a ceiling needs a design and then had it painted white. It all really depends on the situation and the design needs of the project as each is so unique.

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STARFLEX, a brand under Union Property Co Ltd, is the manufacturer of STARFLEX “EXCELLENT Green” and STARFLEX “STARFLOR Green” in Thailand.

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STARFLEX “EXCELLENT Green”.  
Photo: © Starflex



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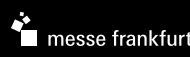
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WACKER ensures that this demand is well met with the SILRES® BS 168. Compared to traditional pH adjusters, SILRES® BS 168 is an odour-free product that contains low organic volatiles and improves the coating's water and scrub resistance. It is ideal for an extensive range of water-borne coating systems, especially low-odour paints, low VOC interior paints and exterior wall paints.

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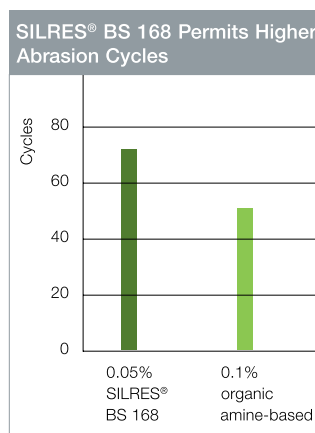


Figure 1

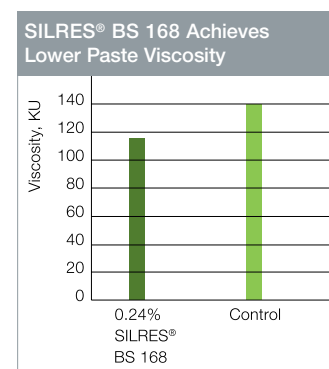


Figure 2

**Environmental Friendly**

SILRES® BS 168 is odour-free and contains low VOC, thus reducing health risks to both producers and users significantly. In addition the lower viscosity of SILRES® BS 168 improves the dispersibility of pigments during the manufacturing of water-borne coatings. This reduces the consumption of dispersants (see figure 2).

Comparison with Common Products				
	Ammonia	NaOH (10%)	Organic amine	SILRES® BS 168
Odor-free	No	Yes	No	Yes
Water resistance	Good	Poor	Good	Excellent
Scrub resistance	Good	Poor	Good	Excellent



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As a highly efficient pH adjuster, a small dosage of SILRES® BS 168 is sufficient in creating the desired effect. For most water-borne coating systems, the recommended dosage of SILRES® BS 168 is 0.1 percent – 0.2 percent of the total weight of the paint. The dosage can be increased in systems with high acidity (e.g. vinyl acetate-acrylate and vinyl acetate-ethylene systems). To achieve higher water and scrub resistance, the recommended dosage is 0.2 percent to 0.5 percent.

For more information, contact WACKER at tel (+65) 6542 6638, fax (+65) 6542 6632, email [info.singapore@wacker.com](mailto:info.singapore@wacker.com) or visit [www.wacker.com](http://www.wacker.com).

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Flooring products from Vanachai Group. Photo: © Vanachai Group Public Co Ltd



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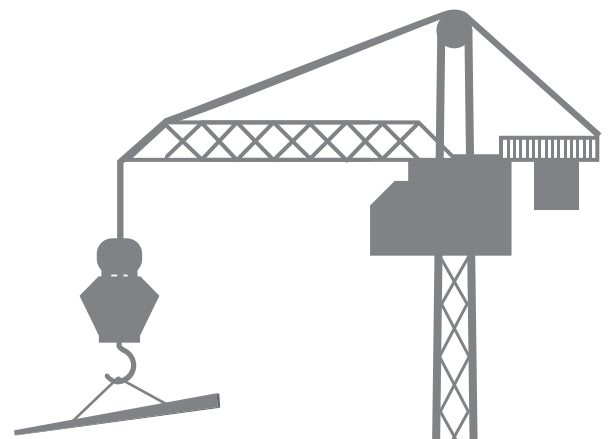
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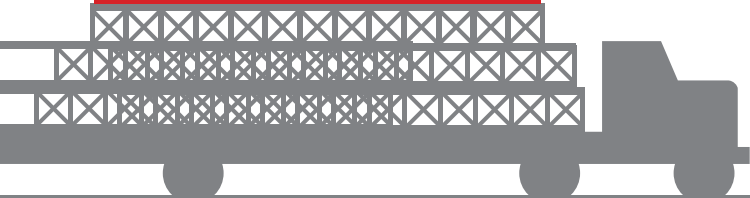


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## FIRELOCK® NXT SERIES 769N DELUGE AND PREACTION VALVES | VICTAULIC

*Victaulic has introduced FireLock® NXT Series 769N Deluge and Preaction Valves. Their new simplified design ensures ease of maintenance and speed of installation with a more intuitive trim layout.*

Victaulic, one of the world's leading manufacturers of mechanical pipe joining and fire protection systems, has introduced the new FireLock® NXT Series 768N Dry Valve. Re-engineered by listening to customer's needs, the new dry valve provides simplified set-up and maintenance for fire protection contractors and fitters while still maintaining the core features and benefits of the original technology.

"The entire idea behind the re-design was to make the valves more intuitive for the average fitter who may or may not have used the products before," said Daniel Wake, Victaulic product manager for sprinklers and fire protection devices.

"We moved the actuator to the front making it more accessible and put the priming manifold down on the right-hand side, in an area that is easy to reach from the front. Sprinkler fitters are going to know by simply looking at it what they have to do, reducing guess work," added Mr Wake.

Continuing with Victaulic's NXT valve key features and benefits including low air pressure, single set points, smaller compressors and pre-set pressure switches, the following updates were made to the new and improved design:

- Trim divided by air (left) and water (right) lines, and brought to the sides to aide in accessibility.
- Specifically engineered threads on the strainer cartridges for the air and priming manifolds make sure you never mix-up a strainer again.
- Clearly labeled manifolds reduce trim down to three manifold components – air, priming and alarm manifold, making it a simpler, lighter valve with less components to install.



"Our engineering team has produced simple, well thought-out designs for the manifold components, which allow the valves to be easily serviced and maintained. Victaulic's renowned high quality standards give customers confidence in what they are installing," added Mr Wake.

In addition to the re-design, the new valve will also feature a QR code on the front of the valve, which will allow fitters to instantaneously access short videos on installation, set-up, and maintenance, complete installation instructions, and access to technical help with the push of a button. "This will revolutionise the industry as far as instruction and operational manuals go," said Mr Wake.

"The simplified design of the NXT valves and facilitating this kind of access to information and resources shows the industry how committed Victaulic is to our customers and will continue to be as we move into the future," he concluded.

The FireLock NXT Series 769N Deluge and Preaction valves are available in sizes 1 ½ -8 inches/40-200mm with up to 300 psi/2068 kPa /21 Bar.

**For more information, visit [www.victaulic.com](http://www.victaulic.com).**

## Do you have a **product story?**

*Southeast Asia Building offers the right platform to create brand awareness for your products and services. If you have a new or existing product for us to publish, drop us an e-mail at [seab@tradelinkmedia.com.sg](mailto:seab@tradelinkmedia.com.sg) and attract more attention than ever before!*

FINE FURNITURE FITTINGS, COMPONENTS  
AND BUILDING MATERIALS

## EWINS PTE LTD

Ewins Pte Ltd, established in 1967, celebrates her 50th anniversary this year. Based in Singapore, Ewins is a leading distributor of fine furniture fittings, components and building materials, which hail mainly from Europe. Ewins' very own flagship brands Veromobi and Casa are exported to some 20 countries worldwide.

Some of the key brands that are well-received by architects and designers around the world include Veromobi's Alba range of high-performance acrylic panels, Parklex® natural wood finishes for building interiors and exterior surfaces and Móz Designs decorative metal sheets that are customisable according to their application.

**Veromobi Alba**

Veromobi Alba is a multi-layered composite panel made with an extruded high-gloss, high-resolution transparent acrylic layer, and a coloured acrylic layer. This range of high performance acrylic panel comes with surfaces that are water, stain, scratch and UV resistant. With a better impact resistance than glass, Alba is suitable for use as materials for interior walls, partitions, sliding door infills and kitchen backsplashes. It can also come with an anti-bacterial coat for use in medical, childcare and biotechnological facilities. Easy to install, clean and maintain, Alba is the perfect material for refurbishing spaces.



Photos: © Ewins Pte Ltd



Photos: © Ewins Pte Ltd

**Parklex**

Parklex® offers a selection of natural wood finishes for use on building facades, ceilings, walls, floors, counter tops and even in bathrooms and showers. Made from 100 percent natural wood and treated according to its application, Parklex finishes have been used by the best architects around the world to provide a look of quality and comfort for both building interiors and exterior surfaces.

**Móz Designs**

Móz Designs is a metal fabricator that offers innovative decorative metal architectural products that can be customised by varying base-material, grains, colour and finishes. Available in sheets or as a finish on architectural products, Móz Designs' range of aluminium finishes have been widely used as interior wall claddings, table tops and dividers; and as exterior façades, perforated screens and signages.

For more information, visit [www.ewins-group.com](http://www.ewins-group.com).



Photos: © Ewins Pte Ltd

COMMERCIAL AIR CONDITIONERS AND CHILLERS | DANFOSS

Danfoss, a leading manufacturer of high-efficiency components and controls for air-conditioning, heating, refrigeration, industrial, and water systems, highlighted four new versatile products for improving efficiency and utilizing low-GWP refrigerants in air-conditioning chillers and rooftop units at the 2017 Acrex Expo.

Danfoss extends the range of products and solutions to now include more options for minimal retrofit and redesign costs and oil-free systems and is the widest on the market today.

The next generation chillers and HVAC units for new builds as well as retrofits are designed to meet higher energy performance and to support the building regulations and standards. Danfoss infuses market dynamics and insight into the OEMs redesign phase and technology assessments. Danfoss products and solutions help end users benefit from reduced energy consumption.

**Danfoss Turbocor® TT Compressors**

Danfoss with its Turbocor® line of compressor products is a pioneer and world leader of variable speed, oil-free compressors for the HVAC industry. Danfoss has just released the TT700 compressor which expands the capacity range of the highly successful TT series.

Designed for water cooled chiller applications and built on the proven Turbocor® technology, the TT700 compressors are oil-free, variable-speed, magnetic bearing centrifugal compressors that provide outstanding full- and part-load energy efficiency. The compressors also feature a small footprint, are lightweight, and offer low vibration, very low sound, intelligent controls, and soft starting characteristics



Danfoss Turbocor® TT Compressors. Photo: © Danfoss

**Danfoss Inverter Scrolls VZH for Optimum Energy Efficiency**

Designed to deliver precise temperature and humidity control while providing the best energy efficiency in rooftop, chiller, close control, and process cooling applications, the Danfoss inverter scroll compressor VZH range includes models released in June 2015. They deliver cooling capacities between 4 to 7 tons and up to 13 tons in manifold configurations. These new VZH models in smaller cooling capacities extend the existing range from 4 to 26 tons with a single compressor and up to 52 tons in a manifold configuration.

VZH inverter scroll compressors are the second generation of Danfoss scroll compressors offering variable speed technology for commercial air-conditioning applications such as; data centers, IT cooling, telecom facilities, offices, and industrial and residential buildings. The VZH product line enables OEMs to create optimum systems with advanced efficiency, stepless modulation, and accurate cooling for this wide range of applications.



Danfoss Inverter Scrolls VZH for Optimum Energy Efficiency. Photo: © Danfoss

**Extended Range of Danfoss Heat Exchangers**

In 2017, Danfoss will launch four new additions to its range of Heat Exchangers. These four new additions to the Micro-Plate Heat Exchanger range with Z-design evaporators are designed to increase capacity and efficiency in the same footprint, covering a range of 10 to 170 TR using R410A in both single and dual circuit systems.

The new Danfoss Micro-Channel V-Coil condenser gives the customer more heat transfer area in the same footprint. This extra heat transfer can be used to improve efficiency, increase the unit's maximum ambient working temperature or get more capacity out of the system. You choose the most valuable benefit for your application. Set to be released in 2017.



Extended Range of Danfoss Heat Exchangers. Photo: © Danfoss

**Danfoss ETS Colibri® High Precision Electronic Expansion Valves**

ETS Colibri® has been developed for precise liquid injection into evaporators for a range of applications, including air conditioning, chillers, rooftop units, heat pumps, and refrigeration. This new electronic expansion valve is the fastest electric valve, with a range of 20 to 140 tons.



Danfoss ETS Colibri® High Precision Electronic Expansion Valves. Photo: © Danfoss

Key benefits include:

- Reduced superheat and direct-drive technology for optimal mass flow over the battery and improved heat exchange for greater energy efficiency of the system.
- Linear opening and closing sequences: the expansion valve is suitable for repeated use in all situations.
- Fast activation: the expansion valve can be driven fully closed in approximately 3 seconds, minimising the risk of refrigerant leaking into the compressor at stand-still, while avoiding excessively low pressure on start-up.
- ETS Colibri® technology follows on from, and will gradually replace, the group's existing electric expansion valves (ETS 12.5 to ETS 100). Also, ETS Colibri® expansion valves are perfect for replacing mechanical expansion valves. Designed for precise liquid injection into evaporators, Danfoss ETS Colibri® valves are expected to be available in 2017.

The existing range also includes electronics, sensors, system protectors and HVAC drives with proven track records. For more information, visit [www.danfoss.com](http://www.danfoss.com).

**REACTIVE STAIN | PROTEGO**

Reactive Stain is a chemical treatment making new oak into an old and distressed surface. A distressed and weathered appearance has grown more popular in recent years. But the problem has been finding the right chemicals to produce this. So far many stains offered from various coating companies can produce it but at the same time the reaction is often not uniform and discolouration can appear some time after the stains have been applied and dried. This means rejected wood or at the best re-sanding and additional applications again with same result in many cases.

The newly developed Reactive Stain from Protego is chemically composed in such a way that discolouration does not appear and the surface will look weathered and distress with only one application. It is easy to apply and also cost efficient.

Protego is offering the Protego Reactive Stain in various colours as standard: white, grey, black, and blue but other colours can be supplied on request. Immediately after application of the Reactive Stain the chemical reaction will be activated when exposed to oxygen and the colour will be generated. The degree of reaction depends on the contents of tannin acid in the oak. So the colour is generated by the chemicals in the Reactive Stain in combination with the tannin acid and pigments.

The stain reacts with contents substances in the wood such as acids and resins and this produces the distressed effect of the wood. French and European oak is particular well suited due to the high content of tannin acid. American red oak and other species of oak are less suited due to the low content of tannin acid but a reaction will be produced in any case. A further advantage of the Protego Reactive Stain is that it also colours the sap wood of the oak which is not the case with other chemical stains.

Application can be made on an industrial line with sponge roller or in a spray cabin with large nozzle spray guns. A manual application is also possible with wide acid proof paint brush or soft sponge paint roller. On an industrial line, fast drying under infra red light is possible or on racks for approximately four hours at 18 degrees Celsius. Subsequently, the surface is sanded lightly in order to remove any raised grain before final application of top coating.

For more information, visit [www.protegodenmark.com](http://www.protegodenmark.com).



No. 1 Protego Reactive stain Black + Hard Oil Wax white 10%. Photo: © Protego



Protego Reactive stain Blue + Hard Oil Wax Extra Grey. Photo: © Protego



Protego Reactive stain Grey + Hard Oil Wax white 10%. Photo: © Protego

CLEAN ENERGY WITH NATURAL  
GAS ENGINES

YANMAR ASIA (S)  
CORPORATION PTE LTD

A gas engine functions as an internal combustion engine that runs on gas fuel such as natural or propane gas. It shares various similarities with conventional internal combustion reciprocating engines like diesel, petrol or gasoline engines. The main difference lies in their fuel sources.

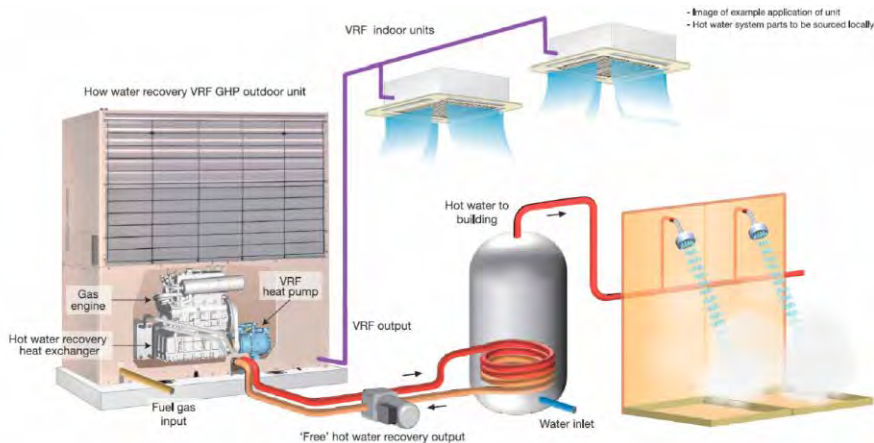
Natural gas is known to be the cleanest fuel with very few by-products. Greenhouse gas emission levels can be reduced by 30 to 70 percent compared to conventional fossil fuels.

Internal Combustion, Reciprocating Engines	
Diesel Engines	• Diesel Fuel Oil
Petrol/Gasoline Engines	• Conventional Petrol
Gas Engine	• Natural Gas • Propane Gas / LPG (High Propane Content)

**Conventional Electric Heat Pump (EHP) vs. Gas Engine Heat Pump (GHP)**

Both systems are likely to utilise Variable Refrigerant Flow (VRF) for air conditioning needs. The contrast lies in the compressor(s) used to deliver the refrigerant around the system. An EHP commonly uses 3-phase A.C. hermetic compressors and therefore, electrical consumption is very high.

However, in a GHP, the AC compressor is replaced with one or more compressors (that is driven by a gas engine). As such, the majority of the high electrical demand is displaced to natural gas to fuel the gas engine.



An example of this is Yanmar's 85kW VRF GHP with Hot Water Recovery

This configuration offers a range of benefits including:

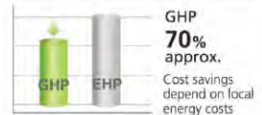
- Usage of natural gas over other common fossil fuel reduces electrical consumption (approximately 90 percent lower) and greenhouse gases (carbon dioxide is reduced by 30 to 40 percent).
- Waste heat from the system can be efficiently recovered for heating water (economically viable for hotels, resorts, hospitals, industries, etc.)
- In countries that implement carbon taxes on large industries and power generation companies, taxes will be off-set to end-users (i.e. increase in electrical tariffs), resulting in an increasing cost of ownership over the years.

For more information, contact Yanmar Asia (S) Corporation Pte. Ltd at tel (+65) 6861 5077, email yasc-es@yanmar.com or visit the website www.yanmar.com/sg/.

Electricity consumption



Running cost



CO2



Based on 16 x 71kW units running in Japan case vs. EHP with APF 4.8



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DOOR & WINDOW HARDWARE | WINTECH MANUFACTURING CO LTD

Wintech Manufacturing Co Ltd is one of Thailand's leading manufacturers of door and window hardware such as bolts, hinges, cylinder locksets, handles, and doorknobs. The company sells its products under the brand name VECO.

Recently, Wintech launched its new collection of door handles. For this collection, the company collaborated with Thai leading designer, Mr Kirin Chaichana (Kirin design & living facebook page).

The designer's inspiration started from: "What if a door handle isn't simply just a door handle but is something that can express your individuality?" He thinks of door handle as something that can help perfect the overall design of a room. So wouldn't it be a great if such a tiny part of a room such as a door handle can signify your character as a person? It is from these whimsical thoughts that a new collection of door handles was born, inspired by different types of musical instruments, each having their own unique character. Customers can have fun playing with their room decorations.

For more information, visit [www.wintechmfc.com](http://www.wintechmfc.com).



The Veco X Kirin collection.  
Photos: © Wintech Manufacturing Co Ltd



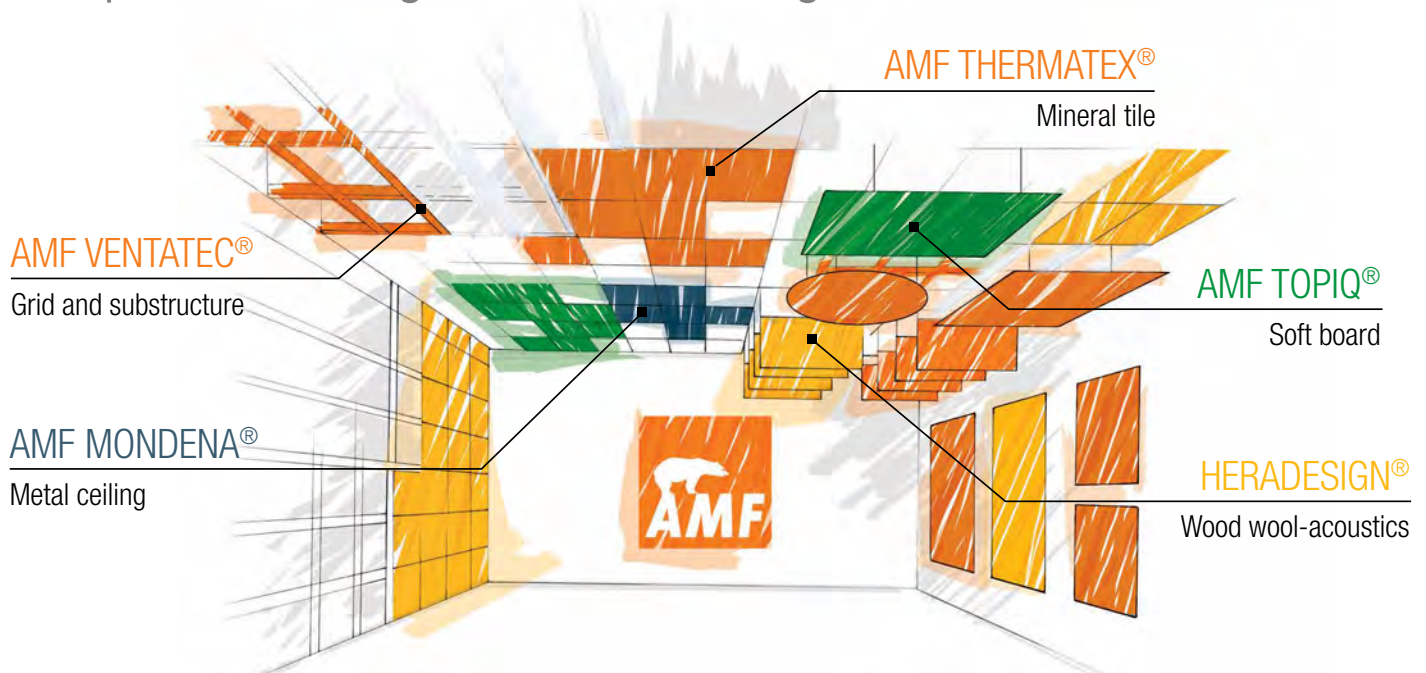
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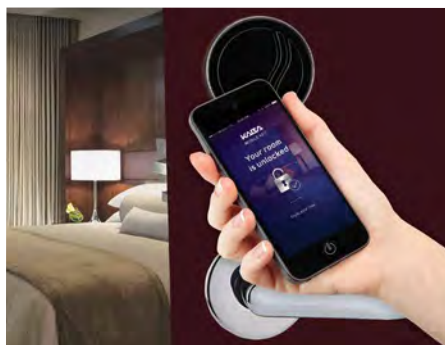
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