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Singapore

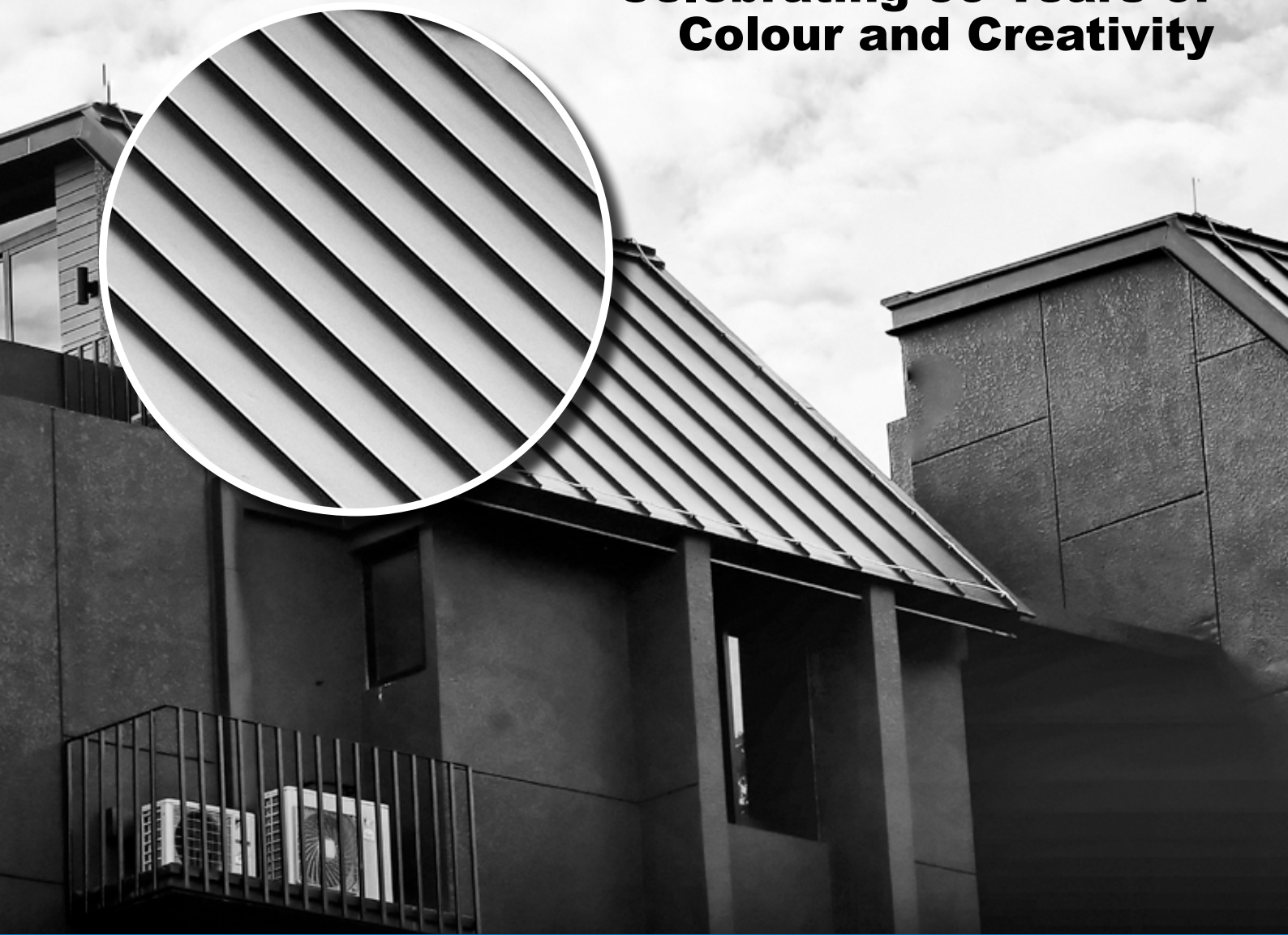
ARCHITECTURE San Francisco International Airport designs and builds new Airport Traffic Control Tower; Seletar Airport in Singapore builds new passenger terminal & Benoy confirms Heathrow Airport appointment
INTERIOR Oasia Hotel Downtown - A new respite in Singapore; Hotel G makes grand debut in Singapore; Grand Hyatt Sanya Haitang Bay Resort and Spa opens; Landmark Four Seasons Kyoto in Japan & The Myconian K Hotels
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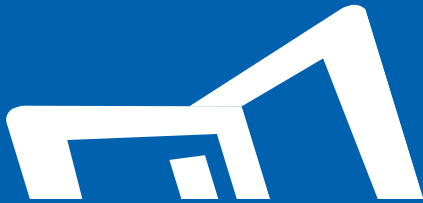


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On the Cover: Oasia Downtown Hotel in Singapore. Photo: © Oasia Hotel Downtown, Singapore

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Welcome to the second issue of 2017. Inside, we look at the design of several Transportation Projects. The changing faces of airports, train & bus stations and cruise terminals have been highly visible over the years and the focus has been very much on giving the passengers or commuters a pleasing and functional experience. We showcase some projects that reflect these changes in design.

In the interior design section, we explore new ideas in hotel design. A number of new hotels opened in Asia last year and each of them has been beautifully designed to reflect the hotel's objectives and to be as inviting as possible to the guests. We hope you enjoy the articles, which are packed with colourful photos.

In landscaping, we have a theme on green roofs and we have published an installation story on a new vertical and roof garden for a Christian College in Melbourne.

Throughout the years, our editorial mission has been the same: to produce quality content that keeps readers engaged and gets our advertisers results. We hope that 2017 will be just as good or even better than last year. Enjoy this issue!

Amita Natveelal

NEXT ISSUE THEMES

- Architecture – Sports
- Interior – Restaurants
- Landscaping – Playground Equipment (Dry)

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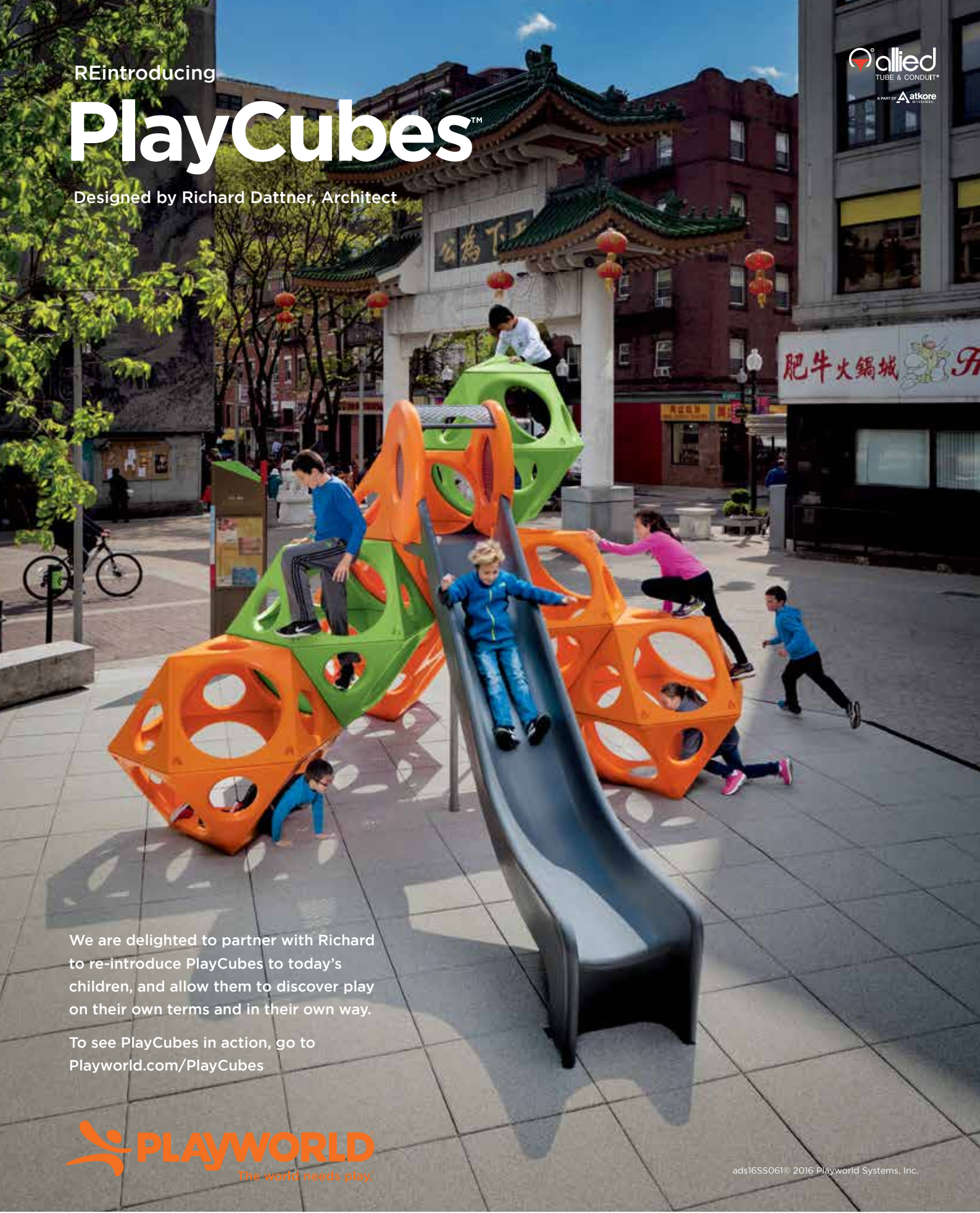
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NZGBC celebrates a decade of quality building

Auckland, New Zealand – Building green has entered the mainstream in New Zealand. As the New Zealand Green Building Council (NZGBC) marks its 10th anniversary, it is clear that incorporating sustainability into buildings is becoming standard business practice.

10 years ago, NZGBC became a member of the World Green Building Council, after industry members decided to act on the growing desire to build more efficient buildings with a reduced environmental impact. NZGBC immediately set about improving the quality and sustainability of New Zealand's built environment. To date, the three rating tools it administers have made significant progress:

- **Green Star** as certified more than 734,000 square metres of quality, lower-impact floor space across offices, schools, industrial buildings and other projects.
- **NABERSNZ** has rated the energy performance of more than 522,580 square metres of office space, leading to greater efficiencies and cost savings.
- **Homestar**, the residential rating tool for warmth, efficiency and sustainability, has 6400 registrations on its books, a ten-fold increase from mid-2015.

NZGBC's chief executive, Andrew Eagles, said the advent of Green Star has contributed to some key changes in the building and construction industry over the last 10 years. "Firstly, having a certified rating tool set a common standard of measurement and benchmarks for people to work towards. It got people in the industry talking about what was possible. Membership has grown from 31 to 475 companies, and to date we've issued 133 Green Star ratings," he said.

"We've noticed a shift in the materials industry, in particular in timber and carpet – it's now far easier to find products that have a certified eco-label, and low-VOC (Volatile Organic Compound) options to contribute to a healthier indoor environment. That shift was already occurring, but when Green Star project teams began requesting certified products, it helped encourage demand here," added Mr Eagles.

Mr Eagles continued: "We've also seen a growth in projects that combine



Geysers, New Zealand's first 6 Green Star building, located in Parnell, Auckland. Photo: © Simon Devitt

active and passive design strategies. Sophisticated building management systems help owners and tenants monitor their mechanical services and reduce energy use. Passive design maximises daylight and natural ventilation to reduce heating and cooling costs, and also includes indoor greenery to contribute to a healthier, more productive environment. In fact, research from the Harvard School of Public Health found workers in certified green buildings perform 26 per cent better on cognitive function tests than workers in non-certified ones."

Tracking and improving a building's energy performance is also becoming increasingly popular, for both tenants and owners. The NABERSNZ rating tool, introduced in 2013, is used to measure and reduce energy use year on year, and Eagles says building owners are using it to improve building performance because of the appeal it holds for blue-chip tenants and investors.

There are now 53 buildings rated or re-rated, amounting to more than 522,580 square metres of office space. And the payback is quite clear: Auckland's Zurich House has improved its energy performance by a massive 45 per cent over the last three years.

NZGBC looks ahead

There is a lot of work happening to

build on this solid foundation. NZGBC is currently developing a suite of lower-cost, simpler rating tools; their scope will also be widened to include performance and communities. Mr Eagles said they expect to announce details in the first half of next year.

"The construction sector is enjoying a boom at the moment. It's exciting that so many companies are working with us to ensure the homes and buildings they're delivering and managing will create a legacy of quality, productive places for New Zealanders, for years to come. The need for earthquake-resilient buildings is fresh in our minds too, and last year we began rewarding project teams that implement seismic mitigation strategies through Green Star's Earthquake Resilience Innovation Challenge," he added.

Terri Wills, CEO of the World Green Building Council, said: "I'd like to congratulate New Zealand Green Building Council on a decade of defining work on green buildings. NZGBC is making a significant impact in transforming buildings in New Zealand, across an increasingly broad range of projects. They have consistently been at the forefront of the global green building movement, and as an active player in our Asia Pacific Regional Network, their work is vital to ensure a sustainable future for the region and beyond."

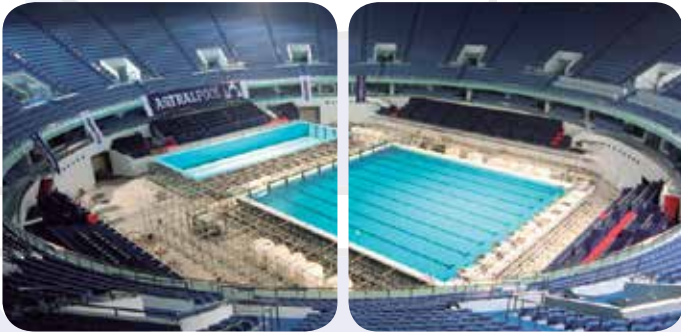


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Accenture launches Accenture Interactive Studios in Hong Kong to accelerate innovation for clients

Hong Kong – Accenture has opened a flagship location for Accenture Interactive in Hong Kong, a more than 40,000-square-foot studio space that will serve as a go-to destination for the company's clients to co-create, innovate and apply the latest digital technologies and experiences to shape the way we live and work. It is the digital agency's new Hong Kong location where clients will have full access to the digital capabilities of Accenture Interactive, Fjord and PacificLink to help transform their businesses, ranging from innovation to strategy, experience design, creative content and technology – all under one roof.

Located at One Island East in Quarry Bay, Accenture Interactive Studios serves as a catalyst to invent, create and deliver disruptive digital solutions. There clients can get hands-on with and apply leading technologies to solve critical business challenges and reimagine customer experiences in an innovative workspace equipped with all the tools needed to build and test prototypes in an agile manner.

"Our Hong Kong digital studios are meant to inspire – not just our people but also our clients – who want to create the next, transformative customer experiences with us," said Brian Whipple, global head of Accenture Interactive. "Our goal is to balance forward-thinking innovation with the practicality of applying it now in an environment that promotes agility, co-creation and experimentation to help our clients innovate in the 'new.' Together we not only imagine the future but we actually deliver it," he added.

Accenture Interactive Studios brings together end-to-end digital customer experience services for clients, including digital strategy, creative ideation, service design, marketing campaigns, content and technical implementation. Clients – working with Accenture Interactive teams – are able to tap into a range of forward-thinking capabilities and amenities, including:

- Digitally enabled, fully configurable workspaces that feature collaboration tools such as the latest conferencing and interactive whiteboards, which allow someone in the room, as well as remotely, to simultaneously write on a whiteboard or tablet as if they were together
- Function-specific zones, such as a workshop space that enables rapid prototyping and immersive simulation of client environments
- A design studio by Fjord – the design and innovation unit of Accenture Interactive – that applies design thinking methodologies and rapid prototyping to create engaging digital services
- A content studio, including post-production facilities, focused on creating, producing and scaling marketing and advertising campaigns globally

Accenture Studios are a key element of the Accenture Innovation Architecture which brings together the company's capabilities – from research, ventures and labs to studios, innovation centers and delivery centers – to develop and deliver disruptive innovations for clients, and to scale them faster.



Photo: © Accenture

Carbon neutral buildings and precincts are a step closer

Sydney, Australia – A clear pathway to carbon neutral buildings and precincts are a step closer, as the Australian Government releases two draft voluntary standards.

Public consultation is now open on the draft National Carbon Offset Standard for Buildings and the draft National Carbon Offset Standard for Precincts.

The Green Building Council of Australia (GBCA) has worked closely with the federal Department of Environment and Energy and the National Australian Built Environment Rating System (NABERS) to develop clear definitions and voluntary standards for carbon neutrality or 'net zero' emissions for buildings and precincts.

According to the GBCA's Head of Market Transformation, Jorge Chapa, the Global Real Estate Sustainability Benchmark finds Australia's property sector already leads the world in the design and delivery of low-carbon buildings, but this work will provide clear guidance as industry works towards eliminating emissions from buildings.

"Our work with the National Carbon Offset Standard sets a clear definition of carbon neutrality. It will help building owners understand how to measure, reduce and offset their operational emissions. It will also give tenants comfort that their buildings and precincts are actually carbon neutral. This work also allows them to use Green Star – Performance and NABERS Energy as mechanisms for demonstrating carbon neutrality. Clear standards and guidelines are essential as we transition to a zero carbon economy," explained Mr Chapa.

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Nippon Otis completes acquisition of Schindler Service Business in Japan



Staff of Mercury Ascensore Ltd. Photo: © Otis Elevator



Staff of Otis Elevator Service Company (OESC). Photo: © Otis Elevator

Tokyo, Japan – Nippon Otis Elevator Company (Nippon Otis) and Schindler Elevator K.K. (Schindler Elevator) announced that Nippon Otis has completed the acquisition of the elevator and escalator service business of Schindler in Japan.

Schindler's elevator and escalator business in Japan consisted of two companies, Schindler Elevator with approximately 380 employees and Mercury Ascensore Ltd. (Mercury), a multi-brand maintenance service provider with approximately 220 employees. In this transaction, Nippon Otis has acquired all shares of Mercury and a new company which was formed by transferring the elevator and escalator service business, related employees and assets of Schindler Elevator. The new company which will be named Otis Elevator Service Company (OESC), will be the exclusive, authorised Original Equipment Manufacturer (OEM) maintenance service provider of Schindler equipment in Japan and will have access to original OEM spares and solutions for continued maintenance and modernisation for Schindler products in Japan.

Schindler Elevator will remain in Japan as an entity to meet its legal and societal obligations with respect to ongoing litigation and investigation and will take all necessary actions until they are resolved.

"We are pleased with the successful completion of this transaction, which enhances our commitment to Japan and Japanese society. We are proud to have the opportunity to extend our high quality service and dedication to safety for the OESC and Mercury customers," said Stephane de Montlivault, Otis Northeast Asia president, and president, Nippon Otis. "It is also my pleasure to welcome our new colleagues to our Otis family of more than 66,000 employees worldwide," added Mr Montlivault.

"We are pleased to announce that we have successfully completed the smooth transfer of Schindler's elevator and escalator service business in Japan to Nippon Otis," said René Kunz, President, Schindler Elevator. "We are confident this will ensure that our customers continue to receive the best service, while providing new growth opportunities for our employees in Japan," added Mr Kunz.

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LIAS Awards is in its 7th edition. This is a competition conceived to set benchmarks on the quality and excellence of work expected of landscape and related practitioners in Singapore. Through this competition, LIAS aims to generate awareness and recognition of outstanding projects and the works of landscape contractors, designers and other related practitioners in both interior and exterior landscapes.

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International launch of central Vietnam resort destination 'HOIANA'

Hong Kong – Visionary plans for the development of Asia's ultimate fully-integrated tourism and leisure destination 'HOIANA' have been announced by its joint-venture partners VinaCapital, a leading investment management and real estate development firm in Vietnam, Gold Yield Enterprises Ltd and the Suncity Group of Macau.

The first phase of the giant US\$4 billion project is scheduled to open in Q1 2019, along 4 kilometres of pristine beachfront and only 5 minutes from the historic UNESCO World Heritage-listed port of Hoi An, on Central Vietnam's iconic coastline.

Phase 1 at HOIANA is headlined by a world-class integrated resort and casino that will incorporate a 445-room hotel complex, 200 apartment-suites for sale on a buy-to-let basis operated by Hong Kong's New World Hotels, with an ultra-luxury Rosewood spa resort incorporating 75 guest villas and 25 exclusive residences, and world class championship golf course designed by Robert Trent Jones II.

The resort will also offer a wide range of leisure activities for adults and children alike including a contemporary beach club and entertainment venue, live shows and events, active watersports and dive centre, retail promenade and a range of new bars and restaurants offering an exciting range of cuisines.

HOIANA's master development plan also offers investment opportunities for respected tourism and leisure-related investors, developers and independent operators through subsequent development phases over the next 10-15 years – completing a thriving township of hotels, residential and lifestyle zones, trendy beachfront village and retail district, convention centre, hospitality training college, water sports hub, second golf course, and a stunning new lagoon concept providing added attraction and safe year-round swimming.

HOIANA is the vision of one of the largest foreign investors



HOIANA is set to be Asia's ultimate tourism and leisure destination.
Photo: © HOIANA

in Vietnam real estate, VinaCapital, in a joint venture with Gold Yield Enterprises of Hong Kong and Suncity, a Macau-based gaming and entertainment group.

"HOIANA is set to rank among Asia's most renowned resort destinations, bringing a self-contained world of entertainment, leisure, pleasure and luxury lifestyle," said HOIANA Chairman, Mr Don Lam.

As a vast development, HOIANA is set to inject significant income opportunity into the local economy and employ thousands of local people. However, the developers are also mindful of its significant effect on the local environment. "We see ourselves as guardians of the location, with a duty to develop the local community, protect the environment and enhance the coastal ecosystem," added Mr Lam. "Focusing on sustainability, water preservation and recycling is of prime importance, and we'll champion the use of locally sourced organic produce and materials," he added.

M&L Hospitality commences 65 Sussex Street Hotel project

Singapore – M&L Hospitality, the Singapore-based real estate investment group, will grow its stake of Sydney's Central Business District hotel accommodation with the commencement of its new hotel development at 65 Sussex Street.

Multiplex, a leading international contractor, has been appointed to deliver the hotel due for completion in Q4 2017. Designed by Architects Fitzpatrick + Partners, the unique mid-scale hotel property will boast an eight level tower with a distinctive geometric facade, 182 guest rooms including four suites, an internal courtyard, meeting space, restaurant and bar.

Mr David Ghannoum, Regional Managing Director NSW at Multiplex, said the company was excited to deliver another new hotel to Sydney's CBD off the back of its successful redevelopment of 161 Sussex Street Sydney for M&L Hospitality.

"Multiplex has extensive experience delivering high-quality hotels and entertainment facilities, and we are delighted to continue to build upon our relationship with M&L Hospitality," said David Ghannoum.

The second project for M&L Hospitality, Multiplex is currently completing the final phase of M&L Hospitality's AUD \$250 million redevelopment of 161 Sussex Street Sydney, which is set to be rebranded as the Hyatt Regency Sydney on 1 December 2016.



Photo: © M&L Hospitality

MHE-Demag opens Southeast Asia's largest crane manufacturing plant in Malaysia

Kuala Lumpur, Malaysia – MHE-Demag, a joint venture between Terex MHPS GmbH and Jepsen & Jessen (SEA) Pte Ltd, has officially opened its largest manufacturing and warehouse facility in Bukit Raja, Malaysia.

Developed at a cost of RM45 million, the facility can operate at a capacity of 200,000 production hours a year, a 54 percent increase from the previous site. The facility is also expected to support the fabricated metal products and machinery & equipment industries; two key areas that have been identified as drivers for the manufacturing sector to attain its projected growth of 5.1 percent per annum.

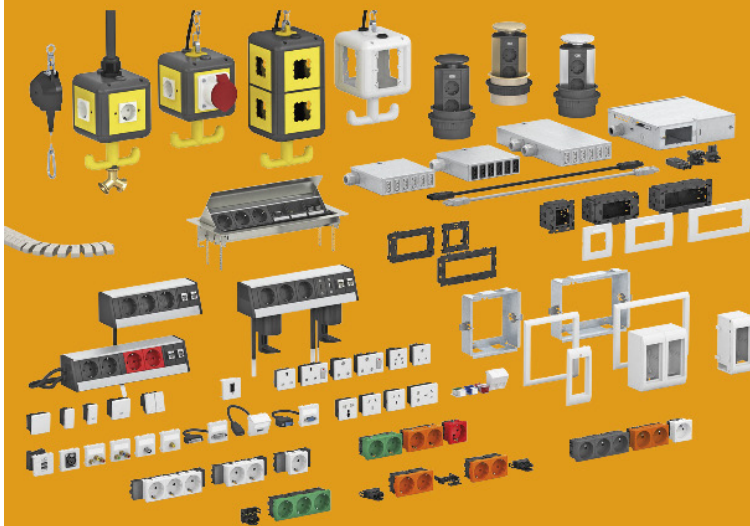
With a built-up area of close to 15,000 square metres sitting on over 26,000 square metres of land, the plant is also the largest and first-of-its kind crane manufacturing facility in Malaysia and the region. The facility will also host MHE-Demag's Regional Training Centre, where employees and customers throughout the Group will attend skills training and upgrading programmes to ensure excellence in operations, maintenance and safety for industrial cranes is maintained.

The factory has also been built in reference to the Malaysian Green Building Index, incorporating the most environmentally friendly solutions. Mr Frankie Chan, Managing Director of MHE-Demag Malaysia said: "We have put a lot of focus on creating conducive work areas that have a low impact on the environment. This includes building for natural ventilation and employee well-being; from utilising translucent panels to allow for extensive natural light to investing in ergonomic workstations. The construction process of this manufacturing facility was also personally managed by our Regional Director, Mr Joergen Moeller, from design to final stage. I strongly believe the new factory will enhance employee comfort and increase their motivation, leading to greater customer satisfaction."



MHE-Demag's new manufacturing plant at Bukit Raja, Klang.
Photo: © MHE-Demag

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Nakheel completes AED135 million Ibn Battuta Mall expansion with official opening of Metro Link



Ibn Battuta Metro link.
Photo:
© Nakheel

Dubai, UAE – A new link connecting Ibn Battuta Mall with the Dubai Metro was officially opened on 24 November 2016 by Nakheel Chairman Ali Rashid Lootah, marking the completion of an AED135 million expansion at the world's largest themed shopping mall.

The Mall-Metro link is the second element of Nakheel's Ibn Battuta phase one expansion, which also includes a 300,000 square feet extension to the mall that officially opened earlier this year. A second, 4.7 million square feet expansion, is under way.

The two-storey, 210 metre walkway means Dubai Metro and bus users can now directly access the mall and its 400 shops, restaurants and attractions. The link itself features 90 new retail and dining outlets including a food court – the second at Ibn Battuta Mall – with around 20 restaurants.



Ibn Battuta Metro link opening. Photo: © Nakheel

Ali Rashid Lootah, Nakheel Chairman, said: "Today marks yet another major milestone for Nakheel and its rapidly-growing retail development portfolio. We continue to enhance and upgrade our existing malls with new facilities and attractions that benefit customers and retailers, while at the same time delivering a new and diverse range of retail and leisure developments. Nakheel Malls' project portfolio is set to become the largest in Dubai, with more than 17 million square feet of leasable space in operation or in the pipeline."

With more than 20 million visitors a year, Ibn Battuta Mall is already one of Dubai's 'must-see' destinations. The Metro link is a natural progression for Ibn Battuta that will inspire more people to discover its stunning architecture, intriguing history and retail offering – and encourage those who would normally use the car to switch to public transport, said Nakheel.

First recipient from engineering design discipline conferred President's Design Award 2016

Singapore – Three designers and 10 design projects were honoured with the President's Design Award (PDA) this year. Recognised for their design excellence and creative innovation, the recipients received their award from President Tony Tan Keng Yam at a ceremony held on 9 December 2016 at the Istana.

For the first time since the PDA was launched in 2006, a recipient nominated under the engineering design discipline received the Designer of the Year award. Dr Hossein Rezai, Director at Web Structures Pte Ltd and a chartered engineer in Civil and Structural Engineering, was recognised for applying structural engineering design principles to provide sustainable, productive and optimised solutions in his projects. "We are happy to celebrate the impressive strides made by our local design sector in our 11th edition. Over the years, we have noticed an increasing number of cross-disciplinary submissions, particularly projects that blend engineering and design. So we decided to introduce Engineering Design as a new design discipline to be considered for the Award. We are happy to have our first Designer of the Year from this discipline," said Mr Robert Tomlin, Chairman of the President's Design Award 2016 Steering Committee and DesignSingapore Council.

The other Designs of the Year include the world's first contact-activated medical lancet, the creative rejuvenation of a traditional bookbinding brand, an innovative ultrasound scanner designed to assess pregnancy risks early, and an inclusive village that integrates communities and transform lives without fences.

The President's Design Award is administered by the DesignSingapore Council of the Ministry of Communications and Information, and the Urban Redevelopment Authority. There were a total of 17 jurors from seven countries, including Singapore, assessing 140 eligible nominations before making the final cut.



Designer of the Year, Dr Hossein Rezai.
Photo: © DesignSingapore Council & Urban Redevelopment Authority

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First 'Green Lodging Trends Report' provides a benchmark for hotel sustainability in Asia Pacific

Singapore—Leading travel and hospitality sustainability consultancy and research firm, Greenview, in partnership with Green Lodging News, has released data from the first comprehensive Green Lodging Survey – the Green Lodging Trends Report 2016.

The results presented in the report are based on data collected from 2,161 hotels located in 44 countries around the world, 1,875 of them located in Asia Pacific. The findings specifically relate to eco-friendly and sustainable practices within the hotel sector and the data focuses on practices and initiatives grouped into ten categories: air quality, energy management, waste management, water conservation, cleaning and maintenance, kitchen and laundry, communication, staff involvement, community involvement and procurement. Launched as an annual report, the Green Lodging Survey (GLS 2016) will provide a benchmark for green teams globally, allowing them to track their progress and compare practices with similar properties.

"Asia is a significant force within the global hospitality industry and the region has seen more hotels open over the last few years compared to the rest of the world combined," said Grace Kang, managing partner, Greenview. "The importance of implementing sustainable practices in hotel across Asia has therefore never been more important than it is today," added Ms Kang.

Within and beyond Asia Pacific, the hospitality industry has long been known for its energy usage, water consumption and tendency to produce waste. However, as environmental concerns have become more prominent on the world stage, many common green practices have been implemented in hotels that go beyond the more familiar approaches such as encouraging guests to re-use towels and linens in order to save on water and reduce pollution from detergents.

"We're applying the same competitive set benchmarking exercises that hotels do for revenue, occupancy, and amenities, and applying this with a sustainability lens. Nobody questions the value of top-line benchmarking, and we argue that sustainability benchmarking



Photo: © Greenview

is even more valuable. The annual benchmarking exercise enables hotels to manage and improve performance over time to stay competitive," explained Ms Kang.

Energy management is one such common practice and 89 percent of respondents in the GLS 2016 indicated they track energy consumption. The use of variable frequencies had an uptake of almost 90 percent. In both of these practices, Asia Pacific hotels were above the global average. The use of high-efficiency boilers had an uptake of 70 percent, while high efficiency chillers had 59 percent.

Lighting is another area where hotels have made significant progress in terms of sustainable energy practices with 70 percent of hoteliers in the GLS 2016 saying they have replaced at least 75 percent of incandescent or compact florescent lighting with LEDs. However, lower uptake was recorded in areas such as waste heat recovery, an approach used by just 12 percent of respondents, and still a nascent practice, solar PV panels were used in only 8 percent of the hotels surveyed.

Surprisingly, several of the best-known approaches to sustainability with proven benefits in terms of operational efficiency, cost reduction and even enhancing guests' experience have yet to be implemented by hotels

in the survey. Almost one-third of respondents said they had yet to install digital thermostats in their rooms, and although most hotels have some form of linen/towel re-use policy, less than half of the hotels in the GLS 2016 have implemented programmes that change linens upon request or every three days as a default.

Waste management is another area where hotels can make small changes that have a significant impact. Installing re-fillable soap and shampoo dispensers in hotel rooms instead of disposable single use amenities is a strategy that 41 percent of properties observe. Simple practices such as not delivering newspapers to every guestroom saves a lot of paper. This practice had an uptake of 82 percent globally and 75 percent in Asia Pacific.

Water conservation is an important topic for certain parts of Asia Pacific. Efficient water fixtures can reduce water cost and consumption significantly. When it comes to low-flow water fixtures, Asia Pacific had a higher uptake on installing low-flow toilets compared with efficient faucets and showerheads.

Technology also plays an increasingly significant role when it comes to hotel sustainability. Sensors, specialist building equipment and software were all commonly cited in relation to energy, water and waste management.

Some technological innovations are now becoming more commonplace while systems such as reverse osmosis and composting machines are still less commonly used in hotels.

Finance also remains a key issue when it comes to the implementation of sustainable practices in hotels. Unless some form of ROI can be demonstrated, significant capital is rarely spent on green approaches unless they are also seen as aesthetically pleasing. Such attitudes are often based on a certain perception of guest expectations. However, nearly a quarter of GLS 2016 respondents indicated that they did not know their guests' level of interest in sustainability.

"Most of the aspects we benchmark also reduce costs. This means the exercise enables a hotel see that if it hasn't put in a common item like a digital thermostat, not only is the property falling behind in terms of guest expectations, but it's also wasting money because of it," added Ms Kang.

Of all the hotels in the GLS 2016, some



Photo: © Greenview

69 percent said they have established a green team or committee to monitor and measure their sustainability. These teams are already helping to improve the industry's green performance, and 79 percent of hoteliers said they hold staff training sessions on sustainable practices at least once a year.

"The green teams may be the unsung heroes of green lodging and this survey and report are tools that speak directly

to them to help them in their great efforts," said Ms Kang. "Finally, through the annual benchmarking exercise, we reach hotels across the globe of all types, and can find the unique things going on each year to highlight best practices and innovation for the industry," added Ms Kang.

The Green Lodging Trends Report 2016 is available at www.greenviewportal.com/surveys/greenlodging.

Nakheel steps up AED16 billion retail expansion as Al Furjan Pavilion opens for business

Dubai, UAE – Nakheel officially opened Al Furjan Pavilion – the latest project in its AED16 billion retail expansion and the fourth in its growing collection of community retail centres.

With a development value of AED110 million, Al Furjan Pavilion is the fifth Nakheel Malls project to open this year and brings the company's 2016 retail project delivery value to more than AED1.5 billion.

The first of two Pavilions at Al Furjan and the fourth in Nakheel's growing collection of neighbourhood retail hubs, the centre has 24 shops, restaurants and services across 87,000 square feet of leasable space, plus a car park for more than 300 vehicles. Retailers include a Spinneys supermarket, 10 food and beverage outlets and a wide variety of shops selling everything from books to beauty services. In addition, a medical centre and branch of the Jebel Ali Village Nursery will open soon.

Located at the southern end of Al Furjan, the complex also features a sports and recreation hub with a restaurant, swimming pool, sports court and gym, scheduled to open by the end of Q1 2017. Nakheel is also set to build a mosque at the Pavilion, with construction starting next year.

Nakheel Chairman Ali Rashid Lootah, one of the first customers through the doors at Al Furjan Pavilion today, said: "2016 has been a momentous year for Nakheel Malls, with AED1.5 billion worth of projects and over 1.5 million square feet of retail space delivered. Al Furjan Pavilion is the heartbeat of this vibrant community, providing residents with somewhere to shop, dine, socialise, relax and keep fit, all in one convenient location. What better way to end the year than to celebrate this latest milestone for our retail business and for Al Furjan investors and residents?"

A second Nakheel Pavilion at Al Furjan, including a mosque for 500 people, is also under construction, with anticipated completion in Q1 2017. Located on the western side of the community, it will contain around 35 shops, restaurants and cafes, plus a gym and nursery.



Opening ceremony of the Al Furjan Pavilion. Photo: © Nakheel

CDL's Gramercy Park named best residential development in MIPIM Asia Property Awards 2016

Singapore – City Developments Limited's (CDL) Gramercy Park has been named 'Best Residential Development (Gold)' at the MIPIM Asia Awards 2016 ceremony held on 30 November 2016 at the Grand Hyatt hotel in Hong Kong.

Gramercy Park is a new luxurious freehold residential development with an exclusive address along Grange Road in District 10, one of Singapore's most desired and prestigious neighbourhoods. A stroll away from the famous Orchard Road shopping district, the 174-unit Gramercy Park is also the latest landmark to join embassies and Good Class Bungalows in the area.

Mr Grant Kelly, CDL Chief Executive Officer, said: "Over the years, CDL has developed many iconic projects that shaped the skyline and set new benchmarks for urban living. It is an honour for Gramercy Park to be recognised as the best-in-class for residential property development. Besides its enviable address, Gramercy Park stands out with its unique sculptural design. It also sits on an expansive freehold site of about 170,000 square feet in the prime District 10, which is extremely rare in land scarce Singapore."

The sleek modern façade of Gramercy Park's two curvilinear towers makes it a statement piece synonymous with the prestigious Grange Road neighbourhood. Beyond aesthetics, the façade's high performance low-emissivity double-glazed vision glass and sun-shading fritted glass panels minimise heat penetration, reducing energy needed to cool the interiors.

Combining sophisticated linear minimalism and the opulent gardens of Ficus "Green Gem" luxury resorts, Gramercy Park's landscape features plants with upright and stately linear forms and free-flowering gingers as framing accents. At the heart of the expansive estate sits a perfectly manicured Grand Lawn, which is beautifully illuminated come nightfall. Mirroring in symmetry, a 50-metre Grand Pool lies alongside, while a lush Wooded Trail completes the vista.



Gramercy Park stands out with its unique sculptural design featuring two curvilinear towers. Photo: © City Developments Limited

Ng Teng Fong General Hospital wins Honor Award from AIA Hong Kong

Hong Kong – Ng Teng Fong General Hospital, a Singapore healthcare facility that combines both a general and a community hospital, has earned the top architecture award from the American Institute of Architects' Hong Kong Chapter.

Co-managing the two hospitals will ensure a coordinated approach to aligning objectives, patient records, shared facilities and patient care plans. These efforts will translate into more cost-effective and affordable quality healthcare.

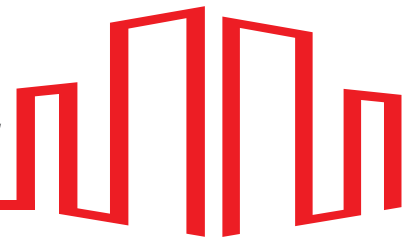
Sustainable strategies create a facility that functions like a vertical healing garden. Based on a concept of every patient having access to a window, the design brings plants, gardens and daylight into each patient's view.

As design and medical planning consultant, HOK collaborated with the Singapore Ministry of Health and a team that included CPG Corporation (prime architect and architect of record) and Studio 505 (design collaborator focusing on building envelope development).



HOK at the 2016 AIA Hong Kong Honors & Awards Ceremony on 11 October 2016. Photo: © AIA Hong Kong

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Potato Head Group continues to showcase the best of Indonesian culture with Kaum Restaurant and Katamama Hotel

Singapore – Potato Head Family, the Indonesia-based hospitality group behind the Potato Head brand, has recently launched two new concepts in Seminyak, Bali. Kaum Bali and Katamama hotel, launched in September 2016 and April 2016, both continue the group's dedication to presenting the best of Indonesian arts and culture in a contemporary context.

The hospitality group reiterates its commitment to place Indonesia's rich culinary heritage at the centre of the global gastronomic map with the recent launch of Kaum in Potato Head Beach Club in Bali. With a location already established in Hong Kong, Kaum – which means “clan” or “tribe” in Indonesian – pays tribute to the more than 600 ethnic groups that make up Indonesia. This new dining concept celebrates and presents a taste of Indonesia's culinary origins, inspired by the Archipelago's indigenous tribes, to a wider global audience.

Echoing the authenticity of the food, Kaum Bali's interior design features 828 concrete wall panels, stamped by wood panels, which were hand-carved by artisans from Toraja, South Sulawesi. Long wooden dining tables, made with high quality, locally sourced teak from East Java, can be found in the dining room and encourage the same family-style dining of Indonesia's tribal communities.

Kaum follows in the footsteps of Katamama, Potato Head Family's first hotel made by artisans. Located just metres away from Potato Head Beach Club in Bali, every facet of Katamama has been handpicked or handmade to reflect Indonesia's artistic and cultural heritage.

Katamama is designed by acclaimed Indonesian architect and longtime collaborator Andra Matin and with interiors created in collaboration between Potato Head Family's in-house design team and Singapore-based firm Takenouchi Webb. Bespoke, uniquely Indonesia features - including more than 1.5 million hand-pressed bricks, teak, handmade tiles from Java and terrazzo made on site - can be found throughout Katamama along with more than 100 original works by contemporary Indonesian artists.

“With both Katamama and Kaum, our team worked closely with the finest local artisans, independent local producers and suppliers to showcase the best of Indonesia,” said Ronald Akili, Potato Head Family CEO and one of Indonesia's leading entrepreneurs. “We wanted to highlight Indonesia's rare and almost-forgotten ingredients, cooking techniques and craftsmanship and bring them together to create experiences that reflect our country's heritage, all within a modern and relatable context,” added Mr Akili.



Katamama's entrance. Photo: © Potato Head Family



KAUM Bali's interior. Photo: © Potato Head Family

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Qingjian Realty lauded for best EC and residential interior design at Southeast Asia Property Awards



Bellewoods EC. Photo: © Qingjian Realty



Ecopolitan EC. Photo: © Qingjian Realty

Singapore – Qingjian Realty (South Pacific) Group Pte Ltd (Qingjian) celebrated two wins for their EC developments at the Southeast Asia Property Awards 2016, held on 24 November 2016.

The developer was lauded for Best Executive Condo (EC) Development and Best Residential Interior Design for Ecopolitan EC and Bellewoods EC, respectively.

“Qingjian is delighted to receive the two Southeast Asia Property Awards 2016. These awards signify our commitment to develop quality homes for our residents that cater to their lifestyles. We are proud to be recognised for our efforts, and will continue to always place the evolving needs of our residents first in our future projects,” said Mr Li Jun, Managing Director, Qingjian Realty.

Organised by PropertyGuru and presented by Hansgrohe, the 6th edition of the Awards saw 12 developers come together at Shangri-La Hotel to receive accolades across 19 categories.

Tallest skyscraper in Vietnam scoops international award



Photo: © Atkins

Ho Chi Minh, Vietnam – The Atkins-designed supertall Landmark 81 in Ho Chi Minh City has won “best residential high-rise development Asia Pacific” and “best international residential high-rise development” at the International Property Awards 2016.

Following the award of “best residential high-rise development Vietnam” earlier this year by Asia Pacific Property Awards 2016, the project was nominated to represent Asia Pacific to compete with winning developments from other regions at the International Property Awards.

At an expected height of 460 metres, the Landmark 81 will be the tallest building in Vietnam, adding a new iconic beacon to Ho Chi Minh City’s ever growing skyline. Construction started in 2015 with completion set for 2017.

Mr Mai Quang Tri, Atkins’ Country Representative in Vietnam, said: “The International Property Awards celebrate the highest levels of achievement by companies operating in all sectors of the property and real estate industry. This international award, following the regional award earlier this year, is a great recognition of our achievement in architectural design and highlights the collaborative approach we’ve taken to meet our client’s vision. We look forward to developing our relationship with Vingroup to create further iconic landmarks and setting international standards.”

The 81-storey development is situated in the prime location of Vinhomes Central Park and faces Saigon River. It features an unusual architectural design that symbolises the diversity and fast-emergence of Ho Chi Minh City, comprising areas for residential, retail and a hotel. The 241,000 square metres development will also feature a contemporary landscape design that merges natural beauty into the building.

Landmark 81 has been repeatedly recognised by long established awards in industry, including being a finalist at the recent World Architecture Festival in Berlin, Germany.



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Thailand Lighting Fair 2017 (THLF 2017) brings world class lighting technologies and links the “entire lighting buying chain” of global and ASEAN lighting industry

This year Messe Frankfurt together with The Exhibiz, launch “building zone”— to follow light + building show theme as well as bring back Secutech Thailand 2017 to serve global ambitious toward industry 4.0.

THAILAND lighting fair 2017 lights life

Bangkok, Thailand – With the continued strength of economy of Thailand together with infrastructure development plan and business-friendly regulations, Messe Frankfurt see great potential in Thailand as a business hub for ASEAN. Good proof would be a success story of Thailand Lighting Fair, a lighting trade exhibition, which has been launched in 2015 and now the show has become a leading lighting technology in ASEAN. This year Messe Frankfurt together with The Exhibiz launch “building zone” – to follow light + building show theme as well as bring back Secutech Thailand 2017 in which the organiser strongly believes that the timing is right and the market condition is right.

Messe Frankfurt in collaboration with The Exhibiz and continuous support from the Provincial Electricity Authority (PEA) officially announced the third consecutive year of its ‘Thailand Lighting Fair 2017’ (THLF 2017). Due to the positive feedbacks of THLF 2016 and in response to industry 4.0, THLF 2017 will be organised in concurrent with Secutech Thailand 2017 under the main theme of “Smart City. Safe City.” The shows will cover ranges of technologies and solutions from upstream services to downstream supplies needed for Smart City and Safe City development in the Digital Era from lighting, security to building automation under one roof. The show will offer promising benefits for lighting manufacturers, distributors and visitors. THLF 2017 will be held at the Bangkok International Trade & Exhibition Centre (BITEC), Hall 102-104, from 16-18 November 2017.

As ASEAN’s one-stop sourcing marketplace for lighting technology, design, solutions which connects leading lighting manufacturers and distributors from all over the world with potential buyers plus the fair is an excellent educational platform that guide absolute alternative solutions and necessary up-to-date information for the players in the industry. A wide array of innovative lighting technologies will be made available at the trade show, presented by more than 350 leading lighting companies from around the globe, taking over 10,000 square metres of exhibition space enabling it to serve over 10,000 trade visitors across the region.

Additionally, THLF 2017’s highlights will lighting up new business opportunities with highlight zone “Smart City & Safe City Landmark” – an intense business platform for exhibitors to convince target customers in virtual environment, Smart City Investment Zone – A zone for developer of smart city project in Thailand and ASEAN to showcase and present their projects to pitch for investors, ASEAN Smart City Conference 2017 and ASEAN Architecture & Lighting Design Conference 2017, and series of international seminars and certificate courses – Live at THLF 2017.

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Faithful+Gould to deliver new IKEA in Mumbai

Singapore – Faithful+Gould has been engaged to deliver IKEA’s latest store in Turbhe, Navi Mumbai. Together with their parent company, Atkins, they will be providing a comprehensive delivery solution that includes project management, cost management, construction management, and multidisciplinary design services. Set to be operational by July 2018, this will be the second store in India, a first in the central India region, and is part of IKEA India Private Limited’s expansion plan to open 25 stores in the next 10 years. The new 1,130,200 square feet store will include a basement and ground floor car park, warehouse on the first floor with double-height ceilings, and dedicated retail spaces on two floors to accommodate showrooms, a market hall and restaurant.

Faithful+Gould’s team will begin work immediately, commencing with the demolition of existing structures and land

remediation on site. As part of their role in the development of the IKEA store, Faithful+Gould will also manage the retail fit-out and provide green building advisory.

Michael Phillips, Operations Director for Faithful+Gould India, said: “The new store is expected to have five million visitors a year, and it will generate jobs for about 500-700 workers. It’s exciting to think how our work will make a positive impact and contribute to India’s economic sustainability.”

Alex Winchester, Director, Property and Major Projects, Atkins India, added: “Winning such a hard fought competition is a substantial coup for Faithful+Gould and Atkins. Helping one of our key global clients to establish their new foothold in India demonstrates our teams’ collective ability to deliver the same top-tier service in India as they have experienced with us elsewhere in the world.”

Jardine Schindler Group and Aspen Group sign collaboration agreement to boost smart digital urban mobility solutions in Aspen's developments

Penang, Malaysia – Antah Schindler Sdn Bhd and Aspen Vision All Sdn Bhd (a subsidiary company of Aspen Group) have signed a Collaboration Agreement in Penang, pledging collaboration and engagement in future building developments across Malaysia with smart digital urban mobility systems.

The signing serves as a framework for collaboration and information exchange between the parties on the design, engineering, supply, delivery, installation, testing and commissioning of both mobility systems and Smart Digital Solutions for all Aspen's developments in Penang and Selangor. Smart Digital Solutions are a cornerstone of Schindler's pioneering equipment, and encompass remote monitoring, advanced analytics, intelligent elevator dispatching for optimum traffic performance, personalised passenger services, and smartphone building access and mobility technology, among others.

The agreement was signed by Jujudhan Jena, Chief Executive Officer of Jardine Schindler Group, Ashok Ramachandran, Managing Director of Antah Schindler Sdn Bhd, Dato' M. Murly, Group Chief Executive Officer of Aspen Group and Woo Kok Weng, Executive Director of Aspen Group.

The Chief Minister of Penang, YAB Lim Guan Eng witnessed this momentous signing at the ceremony together with Dato' Seri Nazir Ariff, Chairman and Executive Director of Aspen Group as well as Chan Siu Shing, New Installation director of Antah Schindler Sdn Bhd.

The partnership follows Aspen Group's recent award of the Verve commercial development contract to Schindler, to which Schindler will supply 442 units of intelligent elevators.

Verve commercial precinct is the first phase of Aspen Vision City in Batu Kawan, Penang. It is comprised of 441 units of three- and four-storey shop offices and comes with a host of value-added features such as external linkages to surrounding establishments, a 300-metre covered high street, tree-lined walkways and every unit is equipped with a private elevator. Spanning across 245 acres, Aspen Vision City is the largest mixed-use development in the state of Penang. It is also a mega-scale joint venture development between Aspen Group and Ikano Pte Ltd.

"We are delighted to have a new and strong business partner in Malaysia, which is an important market for us," said Jujudhan Jena, Chief Executive of Jardine Schindler Group. "Bringing intelligent digital solutions to the country is a goal we proudly share with Aspen Group, and we anticipate strengthening our presence in Malaysia through this important collaboration," he said.

"This signing is an excellent step in our new partnership with Aspen Group," said Ashok Ramachandran, Managing Director of Antah Schindler Sdn Bhd. "We are proud to have been chosen for the Aspen Vision City development because of our well-established brand reputation and good relationship with our customers," he said.

Interior Design Confederation of Singapore (IDCS) announces new Council Committee at IDCS 13th Annual General Meeting

Singapore – Interior Design Confederation of Singapore (IDCS) announced the re-election of Mr George Budiman of Cynosure Design Pte Ltd. as its president for the 4th year running. The announcement, held simultaneously with IDCS' 13th annual general meeting on 24 November 2016, also includes the other duly elected members of IDCS' Council Committee.

"It is with great pride and honour to again be elected as IDCS' President. The committee has, over the years, made great strides in uplifting the professionalism and reputation of interior designers in Singapore. But there's work still to be done - we know the challenges and we will continue to push for initiatives that drive more projects and programmes to serve the entire design industry," said Mr Budiman.

The newly elected Interior Design Confederation of Singapore's Council Committee 2016-2018 includes new Honorary Advisory roles which will provide strong support to the Elected Council Members to further the interests of the industry.

IDCS' vision for the year 2017 include continuous efforts to promote a clearer understanding of the interior design industry in general; increasing members' level of professionalism and subsequently elevate the overall status of the profession within the business community; fortify its position as trusted advisor to organisations and individual professionals working in related industries such as engineering, architecture, building and construction, and property development; and strengthen its working relationships with government departments, institutions, and neighbouring design associations.



Mr George Budiman. Photo: © Interior Design Confederation of Singapore (IDCS)

Pan Pacific Singapore re-launches swimming pool after \$3 million renovation

Singapore – Pan Pacific Singapore has re-launched its swimming pool after a S\$3 million refurbishment, to offer a vibrant tropical retreat with a fresh new look.

“The swimming pool has been redesigned to cater to the needs of international travellers, with water features, lush greenery, private lounging spaces as well as a brand new Poolside bar. Families with children are not forgotten as we have also included a family zone with a wading pool while MICE planners and event organisers will now have a new venue for bespoke cocktail parties and private events,” said Mr Gino Tan, Area General Manager, Singapore and General Manager, Pan Pacific Singapore.

Surrounded by tropical vegetation, a gently flowing waterway guides guests to two large semi-circular swimming pools encircled by luxurious cabanas, day beds and sun loungers offering ample options for a relaxing time by the pool.

With a colourful bar display, the new Poolside bar showcases a wide variety of icy cold beverages and a refreshed menu featuring signature Pacific-inspired snacks, popular starters and main courses including a delectable selection such as Wagyu Burger, King Crab Pasta, Satay, super greens, thin crust pizzas and desserts prepared by our award winning chefs. An extensive range of refreshing Pacific cocktails, bubbly, fresh juices, Haagen Dazs ice-cream and an indulgent choice of Fruit Popsicles, served with Prosecco will keep the guests cool.

11 large cabanas, nine day beds and numerous sun loungers and emerald pool umbrellas from renowned Spanish outdoor furniture brand Kettal dot the extensive pool and garden area, offering panoramic views of the pool or quiet corners for relaxed lounging while sipping on cocktails. The sleek, elegant and timeless yet functional designs of Kettal furniture completes the cosmopolitan mood of the urban oasis.

The breezy and expansive Poolside is also the perfect venue to hold private cocktail parties, wedding receptions or summer soirees for up to 150 persons.

Located along the perimeter of the pool is the refreshed and award winning St. Gregory Spa, where guests may enjoy a tranquil retreat from the urban jungle with a wide range of pampering face and body treatments and traditional healing therapies. The newly renovated pool and spa, together with the gym facilities now provide guests a rejuvenated lifestyle floor on Level 4 of Pan Pacific Singapore.



Pan Pacific Singapore exterior day shot. Photo: © Pan Pacific Singapore

Huatong Global wins new contracts aggregating \$87.1 million; bringing total projects secured in FY2016 to \$113.7 million

Singapore – Huatong Global Limited (“Huatong Global” or the “Company”, and together with its subsidiaries, the “Group”), a full-service integrated civil engineering solutions provider, announced that it has secured new civil engineering contracts from various parties aggregating approximately S\$87.1 million, bringing the total value of new projects secured in FY2016 to S\$113.7 million.

The major projects, amongst others, secured by the Group include:

- Earthworks And Surcharging Works At Tuas Terminal Phase 1 Reclamation, Wharf Construction And Dredging;
- Improvement Works To Surface Car Parks (Batch 70);
- Proposed Infrastructure Works At Tuas South Boulevard Extension; and
- Construction Of Buangkok Drive (Extension) In Hougang Town (Part 1) And Construction Of Bus Bay /Bus Shelters Along Buangkok Crescent And Buangkok Link.

The Group is expected to deliver the above projects in phases over the next two to three years. The contracts are not expected to have a material impact on the Group’s earnings per share and/or net tangible assets per share for the current financial year ending 31 December 2016.

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Singapore Lift Company launches the world's first composite lift in Singapore

Singapore – Singapore Lift Company (“SLC”), a joint venture between Far East Organization, Woh Hup (Private) Limited and Pronus (HK) Ltd, unveiled the world's first composite lift, at the Fullerton Hotel on 11 January 2017.

The composite lift called “8” was launched by Mr Alister Bennett, Managing Director of SLC, who said that 8 aims to become a game-changer in the building and construction industry here.

Made of lightweight composite materials used in industries such as aerospace, formula-one racing, electronics, yachting and deep sea exploration in place of steel, 8 can substantially reduce the time, labour and the amount of construction materials needed in lift installation.

Mr Alister Bennett, Managing Director of SLC said: “8 has far-reaching implications beyond just the paradigm shift away from using steel in the manufacture of lifts and its accompanying requirements in shaft design. We see great potential for our product in the building and construction industry as well as the retro-fitting industry.”

The composite lift cabin was developed in collaboration with and built by McConaghy Boats Ltd, a company of the McConaghy Group. A composite specialist with 50 years of experience, the company has been delivering high performance composite components used in race yachts, race cars and submarines, and will continue to work with SLC on product development for the international market.

In terms of weight, 8's cabin is a mere 150kg, as compared to a traditional lift of about 1,500 kg of the same capacity. It does away with the need for complicated shaft designs and the substantial amount of structural support in the form of concrete walls and/or steel supports to bolt on brackets for the guide rails and landing doors, which are standard requirements in current lift construction.

The completely redesigned lift offers a breakthrough solution to the problem of limited cabin space vis-à-vis the lift shaft size due to the position of counterweights and guide rails in traditional lift shafts. Using only one structural face for support, the shaft design for 8 has been considerably simplified, with no or shallow pits and low overheads. This is in contrast to traditional lifts whose design calls for the expensive construction of deep pits and high overheads. With 8, the cabin space has been considerably enlarged to enable it to take a larger load, due to maximisation of the shaft size and minimisation of the overhead and pit.

More importantly, the potential overall savings to be realised through enhanced productivity in construction and faster installation times allow for better materials to be used and a safety system to be incorporated into the lifts without pushing up the entire construction and building costs.

8 is certified to EN81-41 and EN81-20:50 by Liftinstituut, one of Europe's leading certification organisations for lifts and escalator safety. Currently, it is awaiting final certification from the Building and Construction Authority (BCA) in Singapore.

“Composite material is not new but its use in our lifts is groundbreaking. Aside from the costs and time-efficiency benefits, the easy installation of the lift means that specialised skilled labour will no longer be required. There are currently an estimated 61,000 passenger lifts in Singapore with only an estimated 2,000 lift technicians. With this innovation, any person can be trained and certified to be fully qualified to install the lift and this would reduce, to a certain extent, the labour issue for lift installation



The composite lift cabin “8” was showcased at the launch.



Matthew Flynn, Director of McConaghy Boats Ltd (left) and Mr Alister JA Bennett, Managing Director of Singapore Lift Company, explaining the features of the composite lift to the media.

and the cost of maintenance," added Mr Bennett.

Furthermore, while traditional lifts require on average five to seven days for the installation of a single floor, with 8, the time will be shortened considerably to a minimum of one floor per day. There is also no necessity for welding or heavy lifting equipment, which makes it a safer, less labour intensive process.

Commenting on choosing Singapore as the base for the launch and production, Mr Bennett said: "We have chosen Singapore as a base due to its excellent reputation of having skilled, efficient and productive labour. We hope that we can build up the composite lift industry here so that in time to come, Singaporean companies will be able to provide innovative solutions for this nascent industry to the rest of the region and eventually the world. We also aim to work with local tertiary institutions such as Nanyang Technological University for the development of skills in the design and engineering aspects of the lift components and for the composite industry in general so that Singapore will eventually become a hub for the industry."

8 has three types of application – as a disabled, home or passenger lift – using three different drive options, V-Belt, Rigid Chain or Hydraulic. With a minimum 1,400 mm turning diameter, it is the only lift designed to enable a sufficient turning radius for wheelchairs. It also allows for customised interior design and other technical fittings for a totally personalised and unique expression of an individual's taste, in the case of home lifts. Energy efficient with remote monitoring, 8 is initially available for installation in low-rise buildings, which will eventually be extended to serve up to 20 floors.

Singapore Lift Company expects to start the composite lift system in the third quarter of 2017.



Mr Bennett standing inside the composite lift model that was temporarily installed to give the media a first-hand experience of the lift and its features.

SingaPlural 2017 takes refreshing and holistic approach to design

SingaPlural Celebrating
Design 2017
7 — 12 March



Singapore – SingaPlural 2017, the anchor event of the Singapore Design Week, will take place from 7-12 March 2017 at the F1 Pit Building. SingaPlural 2017 aims to give visitors a glimpse into the creative minds of designers while offering visitors a visual treat as they journey through the various narratives and eye-catching displays on show.

With the theme "Stories – A New Perspective," SingaPlural 2017 will bring about completely new perspectives with a refreshing take on design and how it influences our daily lives. It highlights the best design elements from the multi-faceted creative spectrum. SingaPlural 2017 will be held in conjunction with the International Furniture Fair Singapore/ASEAN Furniture Show and Nook Asia. It is organised by the Singapore Furniture Industries Council (SFIC) and supported by DesignS, DesignSingapore Council, International Enterprise (IE) Singapore, the Singapore Tourism Board and SPRING Singapore.

It will also be curated for the very first time by award-winning design firm – BLACK – which was named one of Asia's Top Design Practices at the Singapore Design Awards 2015.

The week-long festival features over 100 participants including top global brand UNIQLO as well as several local design and lifestyle brands such as Ewins, Antalis and Admira.

SingaPlural Chairman, Mark Yong said: "SingaPlural 2017 brings about a refreshing new format and theme as well as new partnerships. With our established track record and stature, we are able to attract global names such as UNIQLO, Studio Architetto Egidio Panzera, and even Kanto Bureau of Economy, Trade & Industry (METI-Kanto) to be part of our design festival. Their presence here certainly adds much to Singapore's world-class design credentials."

The new theme for SingaPlural 2017 relooks at the design process through different perspectives and creates new stories for the future. Mr Yong said: "We want to share the story of design by narrating our experiences behind the scenes and interpreting new ways of seeing through collaborations. In fact, our key feature project for SingaPlural 2017 is: 'TOMORROW: Design Stories of Our Future.' It paints a picturesque design scene of the future in 2065. Ten designers – all of whom are past President's Design Award winners will collaborate with ten illustrators to present their visions of our future lifestyles."

With their refreshing take on design, SingaPlural 2017 targets to attract visitors from both Singapore and overseas.

Tickets for unlimited entries will be sold on-site at \$10 each. Local students, children 12 years and below as well as senior citizens aged 60 and above will enjoy free admission.

SingaPlural 2017 is open to the public from 7-12 March 2017, 11am to 10pm daily. **For more information, please visit the www.SingaPlural.com website.**

Piscine Global Asia 2017 returns to Singapore for third edition

Singapore – For the third time, the leading Asian swimming pool & wellness event is coming back to Singapore with a new name and visual identity. In 2017, Piscine Global Asia will take place on 5 and 6 April at the Marina Bay Sands Expo & Convention Centre.

Piscine Global Asia will deliver the Asian pool and spa market, a dedicated show with a comprehensive and qualitative offer. Exhibitors for this edition will include construction and installation, pool equipment and accessories, maintenance, protection and security, health and wellness, outdoor equipment, equipment and accessories for around the swimming pool and also services.

The next edition will not only provide the crème de la crème of local and international providers but also events for the pool professionals such as Piscine Innovations (a specific area on the show dedicated to exhibit new products), Speed Meeting (a service for exhibitors and visitors to schedule 30 minutes appointments on the show), Pool Vision contest (the greatest pools and spas in Asia will be awarded on and an exhibition of the projects' photos will be displayed on the show), conferences (a program of trainings on pool and spa topics presented by the exhibitors), the Pool Summit (a special event offering an opportunity to discuss trends and figures in the sector worldwide and to initiate networking between the major companies in the sector and federations / associations) and also a special day with a technical visit.



Photo: © Piscine Global Asia

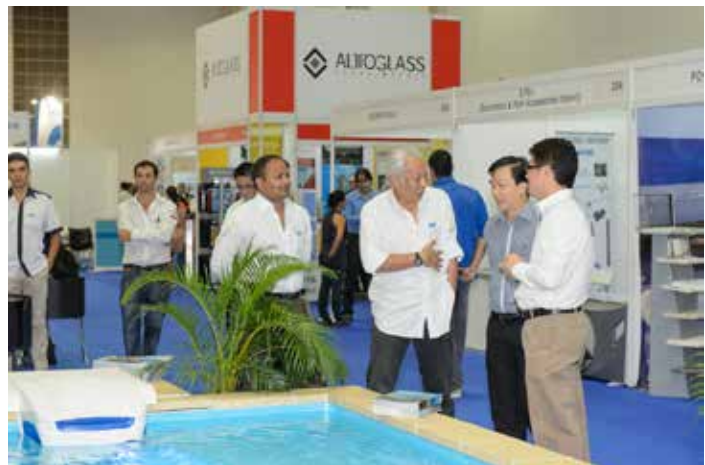


Photo: © Piscine Global Asia

The 2015 edition saw over 120 exhibitors and brands from 18 countries. As a premier pool and spa event in the Southeast Asia region, the biggest names in the industry were represented, including Pentair, Australian Innovative Systems, Fluidra, Herborner, Speck Pumpen, Bombas, HornerXpress, Maytronics, Hayward, Heliocol and many more. There were also several local companies, including Advanced Marine, Water Co, Proserv and SG Hardware.

Nearly 1100 visitors from 29 countries attended the 2015 show, including pool construction and installation professionals, pool and spa maintenance companies, general construction companies, distributors, landscapers, architects, public authorities and many more. Visitors from Malaysia, Singapore, Thailand, Vietnam, Indonesia and Philippines comprised 14 percent of the market.

Piscine Global Asia is a part of the Piscine Global Network. For more information, visit www.piscine-global.com.



Photo: © Piscine Global Asia



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The first KONE UltraRope® in China to be installed in Beijing's tallest building, China Zun

Helsinki, Finland – KONE Corporation will provide China Zun, Beijing's tallest building-to-be with the latest high-rise solutions available in the industry. The mixed-use skyscraper is currently being assembled with the help of KONE JumpLift™ construction-time elevator, and once completed, the landmark building's elevators will be hoisted using the revolutionary KONE UltraRope® high-rise rope technology.

Located in Beijing's Central Business District, the 108-storey China Zun will reach a height of 528 metres. The structure currently reaches a height of 337 metres and, once the construction of the underground area has been completed, the tower will rise at the speed one floor every three and a half days.

The super-light KONE UltraRope technology provides unrivalled elevator eco-efficiency, reliability and durability, while also improving elevator performance.

It eliminates the disadvantages of existing steel ropes and enables elevator travel heights up to 1,000 metres.

The KONE JumpLift is a self-climbing elevator that uses the building's hoist-ways while under construction, following the formwork as the building grows higher. The solution provides faster, safer, and more reliable elevator service during construction. JumpLift improves people and material flow efficiency by up to 20 percent, and can consequently shorten overall construction schedules which means a quicker return on investment.

"KONE JumpLift is currently the leading technology in the world that can solve the vertical transportation capacity problems on a super high-rise construction site," said Mr Wang Wuren, Deputy Chairman and General Manager of CITIC Heye Investment Co., Ltd.

"At construction peak time, we employ over 4,000 workers on the site. Construction-time elevators shorten the waiting time from more than one hour to about ten minutes per person, per day. With this advanced equipment, that means a saving of more than a million working hours during the project."

"We are proud to partner with CITIC on a landmark building of this magnitude," said William B. Johnson, KONE Executive Vice President for Greater China.

China Zun will be equipped with 142 KONE elevators and escalators when completed in 2018. The structure will house office and commercial space and an observation deck, and it is designed by a group of world-renowned agencies: Kohn Pedersen Fox, Beijing Institute of Architectural Design, CITIC Architectural Design, Arup and Parsons Brinckerhoff.



China Zun. Photo: © CITIC

MVRDV win the competition for a new 8,200 square metres residential development in Rennes, France

Rotterdam, The Netherlands – The city of Rennes, led by Mayor Nathalie Appéré announced that the team of MVRDV, ALL and Giboire has won the competition for the project Ilot de l'Octroi. This new residential development is part of the Rennes 2030 urban project and will transform Octroi into a green union between existing paths along the Ille et Vilaine rivers and the centre of the city.

Rennes Métropole is among the most attractive areas to live in France. Its diversity of heritage and growth led to a shift in emphasis from the centre to the city's outer areas connected by the pedestrianised Mail François Mitterrand. This move from a rural to urban context has meant denser developments occurring at the edges, to prevent encroachment onto the countryside. The growth in population and industry has called for measures to cope with future change, most notably for more housing and efficient transport routes.

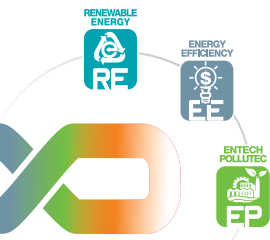
MVRDV, ALL and Giboire respond to this need for more sustainable housing communities and will contribute to the expansion of the centre by breathing new life and refocusing

communities along the rivers.

This 8,200 square metres complex will consist of 135 dwellings, a mix of private residences and a third, offered as social housing. All of the apartments have outdoor spaces with balconies facing the waterfront, loggias and terraces. They are also positioned on split levels, so no view is directly opposite. Trees and greenery from the public square connect upwards to the green rooftops following the façades. The building's distinct curved façades, slope from river level to the roofs allowing for views of the city. At night, the top part of the buildings light up and provide a new night silhouette for the confluence.

"The project is intentionally very open. Open to the Vilaine, open to the city and open towards nature," explained Nathalie de Vries, co-founder of MVRDV.

"As part of the expansion of Rennes, we designed a dense urban area that offers more public access to nature, private greens and fantastic views. Densification only works when it comes with added qualities, and that is our ambition for these inhabitants," added Nathalie.



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Make Architects recognised for award-winning design in hospitality development

London, UK – Make Architects was recently named Best of Category (Best Hotel, Resort or Leisure Destination) at Perspective's A&D Trophy Awards 2016. This accolade was awarded to The Temple House in Chengdu, China, which has become internationally renowned for its distinctive design inspired by local history and tasteful redevelopment of the original site. The mixed-used development reflects the unique qualities of the locality and the award recognises Make's commitment to innovative architectural design and their sensitivity to heritage.

"2016 has been a monumental year for Make; we have expanded our global presence with the opening of our Sydney studio and been appointed to several incredible projects in both the UK and abroad," said Ken Shuttleworth, founder of Make. "We have also unveiled new research carried out by our Future Spaces Foundation – a thinktank which looks at different ways that thoughtful design can revitalize urban environments," added Mr Shuttleworth.

Recent appointments and completions of global projects include: Harrods Grand Entrance Hall (2016), The Monument Building (2016), St James's Market (2016), and The Sandstones (scheduled for completion in 2020).



A heritage landmark, Sydney's Lands and Education Buildings, will undergo a AUD\$300 million redevelopment and restoration at the end of 2017. Make has been appointed by Singapore real estate developer, Pontiac Land Group, as the project architect. Photo: © Make Architects

Mayor of London announces winning team in competition to light up London's bridges

London, UK – The Mayor of London, Sadiq Khan, announced that a team led by the internationally acclaimed American light artist Leo Villareal and renowned British architects and urban planners, Lifschutz Davidson Scandilands, have won the Illuminated River International Design Competition.

The Illuminated River is a design commission on an unprecedented scale: a unified scheme conceived to light central London's bridges along the River Thames.

The seven month search for a world class team to illuminate the Thames' bridges in a free, permanent light installation saw submissions from 105 teams in 20 countries around the world. The six shortlisted concepts went on show in a public exhibition at the Royal Festival Hall in November, seen by over 10,000 people.

The winning team will now start to develop the design concepts in collaboration with stakeholders and partners along the river, and in consultation with the public. This work will take place in 2017.

Sadiq Khan, Mayor of London, said: "We saw an incredible response to this fascinating competition, showing that London continues to inspire creatives from around the globe, and is open to all. There were some spectacular ideas, and I can't wait to see the winning design light up the Thames. Huge congratulations to Leo Villareal and Lifschutz Davidson Scandilands on this fantastic achievement."

Hannah Rothschild, Chair of the Illuminated River Foundation, said: "Leo Villareal's proven ability to paint with light matched with Lifschutz Davidson Scandilands' direct experience of building bridges over the Thames was an irresistible and inspirational combination."

"Their scheme is beautiful, ambitious and realisable but always considerate to the environment, lighting levels and energy conservation. The jury is convinced that the winning team will transform the centre of London while remaining true to the spirit and integrity of the Thames and its communities," she added.



Hungerford Bridge
London
Architect: Lifschutz Davidson Sandilands
Photo: © Tim James

International design practice Scott Brownrigg announces strategic partnership with Hong Kong based One Space

London, UK – International design practice Scott Brownrigg announced that it has formed a strategic partnership with Hong Kong based practice One Space to deliver intelligently integrated architecture and interior design solutions across Hong Kong, Singapore and the wider Asia Pacific Region.

The strategic move reinforces each practice's commitment to serving their growing and widening global client base and will provide both with the opportunity to expand into new markets throughout the region.

The award-winning practices share complementary skills and this strategic partnership will strengthen their respective architecture, interior design and technology specialisms. In addition it will enable Scott Brownrigg, which already has a design studio in Singapore, to broaden its footprint in Asia Pacific and strengthen the practice's corporate interiors and retail design capabilities in this growing market. Both practices have strong reputations for creating innovative designs and delivering award-winning work.

One Space, which currently employs over 20 staff, has built a solid reputation in the region for its portfolio of groundbreaking retail, education, workplace and collaboration concepts for its multinational and regional clients; whilst Scott Brownrigg is recognised within the top 100 global architects and has a strong reputation for providing award-winning designed buildings, infrastructure, masterplanning and interior design solutions across all major sectors. The practice was responsible for the Hong Kong Mass Transit Railway system in the 1970s and for work at Chek Lap Kok Airport.



The University of Reading in EduCity Iskandar, Malaysia – A project by Scott Brownrigg. Photo: © Scott Brownrigg

Richard Meier Partners unveils design of new 685 First Avenue Tower in Manhattan

New York, USA – Richard Meier & Partners in collaboration with developer Sheldon Solow's East River Realty Development is pleased to celebrate the design and construction of the new 685 First Avenue tower in New York City.

The 42-storey, 460-foot high residential tower, Meier's tallest in New York City, will rise just south of the United Nations Headquarters in Manhattan overlooking the East River. The 685 First Avenue site occupies a 32,365 square foot parcel between East 39th and East 40th Streets along the West side of First Avenue. It will be home to 556 rental and condominium apartments and feature panoramic views of the river and the city.

Minimalistic in form, the design of this predominantly glass building evidences great consideration for materiality, lightness, transparency and order. Its taut curtain wall is incised with modular subdivisions and articulated with selective metal panel elements in the form of balconies, canopies and corners. A distinguishing feature – an architectural cut-out at the 27th and 28th floors – will exist in dialogue with the building's context and be visible from across the East River.

"This is a milestone project for us, as our first all-black glass and metal panel building, the tallest tower in New York City by our firm, and a complete Richard Meier & Partners project including both architecture and interiors," commented Dukho Yeon, design partner-in-charge at Richard Meier & Partners.



Rendering: bloomimages

The Smile – a cutting edge experiment in hardwood CLT for the new built environment

Cross Laminated Timber (CLT) is not new. High-rise buildings are popping up all over the world, showing the environmental way for a new age of wood. Well-known Dutch architect Alex de Rijke recently predicted in an article entitled, 'Timber is the New Concrete', that timber would be the dominant construction material of the 21st Century. Text by World Hardwoods



Photo: © Jon Cardwell and the American Hardwood Export Council

London, UK – So what was special about The Smile, a dramatic structure installed in the courtyard of Chelsea College of Art, for the London Design Festival 2016, which was designed by architect Alison Brooks with engineer Arup in cooperation with the American Hardwood Export Council (AHEC)? Made of timber, the structure effectively a beam curving up at both ends, was called The Smile and looked just like one. Many considered it one of the most exciting installations of the festival. However to David Venables, European director of AHEC, it is clear that in his terms it was not just an installation, but something far more important. 'It was meant to represent the challenges of a building'.

While CLT is becoming a widely accepted means of building, it has been done exclusively in softwood so far. The

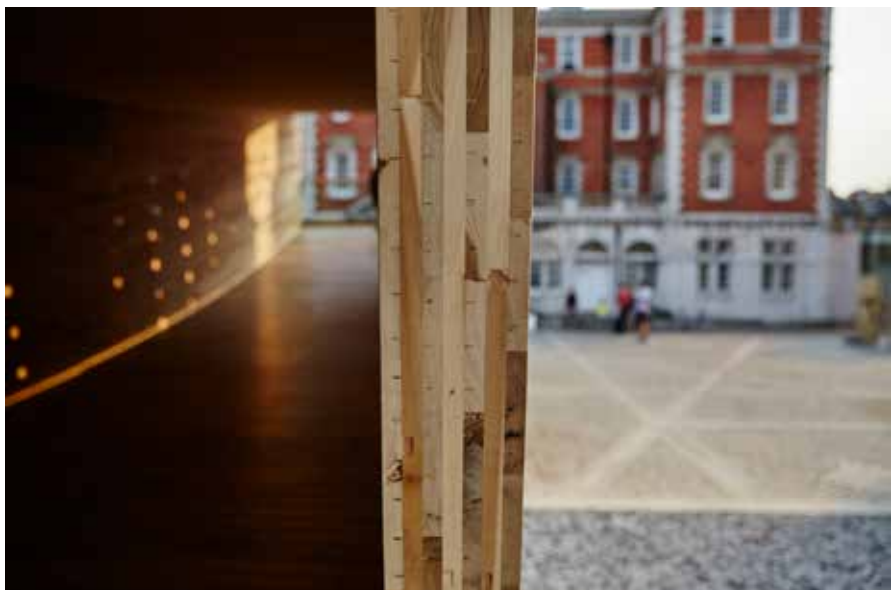


Photo: © Dave Stewart and the American Hardwood Export Council



Photo: © Jon Cardwell and the American Hardwood Export Council



Photo: © Dave Stewart and the American Hardwood Export Council

big difference for the construction industry here is that this was the first time hardwood has been used for CLT, already leading to commercial projects where strength and an improved appearance are key issues. Tulipwood is an abundant, lightweight but strong hardwood, so The Smile was the culmination of an effort to show that it can have a structural use in buildings. AHEC has been experimenting with tulipwood, most particularly in the design and making of the Endless Stair, a project for the London Design Festival two years ago, designed by architect dRMM and Arup.

"We learnt so much from the Endless Stair that we were able to take it forward to industrial production," explained Mr Venables. Whereas the Endless Stair used tulipwood CLT that had been prototyped for the occasion in a kind of hand-crafting approach, The Smile was made by German company Zueblin using an actual manufacturing process that is an adaptation of the way that it makes softwood CLT commercially.

There is a double win for tulipwood an abundant, naturally grown hardwood and secondly CLT uses the lowest grades of the timber. The Smile makes the elements work as hard as they possibly can. It is a massive challenge in terms of scale and engineering as well as a demonstration of just how exciting and beautiful a building using hardwood CLT can be.

Twentytwo to use state-of-the-art Otis Elevators and Escalators

London, UK – London's skyline is set to change as AXA Investment Managers – Real Assets, acting on behalf of its clients, commence the main build of the Twentytwo development on Bishopsgate, scheduled for completion in 2019.

With Lipton Rogers as developer and designed by PLP Architecture, the 59-storey building will use 67 state-of-the-art Otis elevators and escalators, including the fastest SkyRise double-deck elevators in Europe, traveling up to 8 metres per second.

Twentytwo is being built by Multiplex on a prime site just minutes from the new Liverpool Street Crossrail station. At 255 metres (840 feet) tall, it will fill a gap at the centre of the City's eastern cluster of tall buildings. Once complete, this 1.4 million square foot office will be home to a workforce of approximately 12,000 people.

Otis Limited, the local Otis entity, will install 57 elevators and 10 escalators, including 18 Gen2 elevators, 13 SkyRise single-deck, and 26 SkyRise double-deck elevators combined with the CompassPlus® destination management system.

Lipton Rogers and Multiplex Construction will use three Otis SkyBuild™ self-climbing construction elevators to move people and goods faster and safely allow them to better manage the construction programme for the project.

"With pressure on London's infrastructure, combined with population growth, this new building is an intelligent response to the city's evolving needs," said Hemant Jolly, vice president and general manager, Otis UK & Ireland. "Otis is proud to support this evolution with our industry-leading technology, products and service."

The SkyBuild construction elevator is now a standard option in the company's line of global, fully integrated suite of high-rise solutions – the SkyRise elevator system. Installed at the beginning of a building's construction, the SkyBuild elevator allows movement of crews and tools quickly and safely – without an external lift or exposure to weather. Its unique hydraulic piston system enables it to quickly climb one floor at a time as the building rises. Once construction is complete, the SkyBuild elevator transitions for service as a SkyRise elevator, Otis' premier elevator for the world's tallest buildings.

The Otis Gen2 elevator redefined the elevator industry with breakthrough technology that replaced conventional ropes with flat belts, leading to a more comfortable ride, greater reliability, more efficient operation and increased energy efficiency compared to conventional roped elevators. Since its introduction, Otis has sold more than a half million units making the Gen2 elevator one of the company's best-selling elevators in its 163-year history.



Rendering courtesy of Otis.

IOC/IPC/IAKS Architecture and Design Award for students and young professionals 2017

Köln, Germany – The International Olympic Committee (IOC), the International Paralympic Committee (IPC) and the International Association for Sports and Leisure Facilities (IAKS) are launching the 2017 Architecture and Design Award for Students and Young Professionals for innovative ideas, designs and concepts for sports, leisure and recreational facilities.



Winners of the IOC / IPC / IAKS Awards 2015. Photo: © Koelnmesse GmbH

The goal of enhancing the human experience and appreciation of sports, leisure and recreation and the need to ensure equal, dignified and functional access to sport and leisure facilities are fundamental to the IOC, IPC and IAKS. This includes access for all citizens, regardless of their physical abilities, as well as the protection of the environment through skilful design, the use of materials, and creativity.

For many cities aspiring to become healthy places with pleasant living conditions, sports, leisure and recreational facilities are becoming increasingly important. The IOC, IPC and IAKS are calling on young architects and designers to dedicate their enthusiasm and imagination in the creation of areas and spaces for active life-styles.

In recent years, the IOC has placed an increased focus on youth participation in sport through a number of activities. It is the shared aspiration of the IOC, IPC and IAKS for young architects who create sporting environments for all citizens at an early stage in their career will continue this practice in later years so that inclusive design becomes second nature to them.

In their strategy to promote youth and to safeguard and promote access to sport and leisure for all members of the community regardless of physical, sensory or intellectual limitations, the IOC, the IPC and the IAKS are proud to support this Architecture and Design Award for Students and Young Professionals.

The IAKS is responsible for the organisation and staging of the competition. The closing date for all submissions is 30th April 2017. Submission for the Students and Young Professionals Award is for free. The jury session will take place from 27th to 29th June 2017. The results of the competition will be announced to the participants by 15th July 2017. The prize-giving ceremony for the awards will be on 7th November 2017 at the 25th IAKS Congress in Cologne.

For more information, visit www.iaks.org.

2017 AIA Gold Medal awarded to Paul Revere Williams, FAIA

Washington, D.C., USA – The Board of Directors of the American Institute of Architects (AIA) has awarded the 2017 AIA Gold Medal to Paul Revere Williams, FAIA, whose portfolio of nearly 3,000 buildings during his five-decade career was marked with a number of broken barriers. William's legacy will be honoured at the 2017 AIA National Convention in Orlando.

"This is a moment in our Institute's history that is so important to recognise and acknowledge the work of a champion," said Phil Freelon, FAIA, Managing and Design Director at Perkins + Will, who presented to the AIA Board of Directors on behalf of Williams. "It's been many decades but Paul Williams is finally being recognised for the brilliant work he did over many years," he added.

While Williams was more than comfortable with the historical styles endemic to Southern California, his fluency in modernism is reflected in the work outside of his residential practice. Among his number of schools, public buildings and churches are American architectural landmarks, including the Palm Springs Tennis Center (1946) designed with A. Quincy Jones, the space age LAX Theme Building (1961) designed with William Pereira, Charles Luckman, and Welton Becket, and his 1949 renovation of the iconic Beverly Hills Hotel. Eight of Williams' works have been named to the National Register of Historic Places.

16-19 Mar 2017**Megabuild 2017**

Jakarta Convention Centre
Jakarta, Indonesia
Tel: +62 21 2556 5004
Email: marzuki.herry@reedpanaroma.com
Website: www.megabuild.co.id

2-7 May 2017**ARCHITECT EXPO 2017**

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Nonthaburi, Thailand
Tel: +66 2 717 2477
Fax: +66 2 717 2466
Email: info@TTFintl.com
Website: www.ArchitectExpo.com

8-10 June 2017**Cambodia Architect & Décor 2017**

Diamond Island Convention & Exhibition Center
Phnom Penh, Cambodia
Tel: +66 2 713 3033
Fax: +66 2 713 3034
Email: info@icvex.com
Website: www.cambodiaarchitectdecor.com

7-9 Sept 2017**Cambuild 2017**

Diamond Island Convention & Exhibition Center
Phnom Penh, Cambodia
Tel: +855 23 901 117
Email: veasna@ambtarsus.com
Website: www.cambuildexpo.com

16-18 Nov 2017**Thailand Lighting Fair 2017**

Hall 102-104 BITEC
Bangkok, Thailand
Tel: +66 2 664 6499
Email: info@thailandlightingfair.com
Website: www.thailandlightingfair.com

30 Mar-1 Apr 2017**Macao International Environmental Cooperation Forum & Exhibition (MIECF)**

The Venetian Macao Resort Hotel
Macao
Tel: +852 2511 8112
Email: t.fong@koelnmesse.com.hk
Website: www.macaomiecf.com

11-13 May 2017**LED Expo Thailand 2017**

Challenger 1
IMPACT Exhibition & Convention Centre
Bangkok, Thailand
Tel: +91 9810301644
Email: gaurav@mexexhibits.com
Website: www.ledexpothailand.com

9-12 June 2017**Guangzhou Electrical Building Technology 2017**

China Import and Export Fair Complex
Guangzhou, China
Tel: +852 22 38 99 37
Fax: +852 25 19 60 79
Email: building@china.messefrankfurt.com
Website: www.building.messefrankfurt.com.cn

5-7 Oct 2017**Myanmar Build & Décor 2017**

Myanmar Event Park
Yangon, Myanmar
Tel: +66 2 713 3033
Fax: +66 2 713 3034
Email: info@icvex.com
Website: http://myanmarbuilddecor.com

30 Nov-2 Dec 2017**Myanbuild 2017**

New Expo Hall, Yangon
Myanmar
Tel: +60 3 2692 6888
Fax: +60 3 2692 2788
Email: ian@ambtarsus.com
Website: www.myanbuild.net

5-6 Apr 2017**Piscine Asia 2017**

Marina Bay Sands
Singapore
Tel: +33 (0) 478 176 243
Fax: +33 (0) 478 176 358
Email: Pierre.garcin@gl-events.com
Website: www.piscine-asia.com

25-27 May 2017**BuildTech Yangon 2017**

Thuwanna Stadium
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Tel: +65 6319 4020
Fax: +65 6319 6140
Email: sphere@sph.com.sg
Website: www.btmandalay.com

15-17 June 2017**LaoBuild 2017**

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Website: www.laobuild.com

19 Oct 2017**LIAS Awards 2017 Gala Dinner**

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Fax: +65 6336 9512
Email: secretariat@lias.org.sg
Website: www.lias.org.sg

12-14 Apr 2017**Ecobuild Southeast Asia 2017**

Kuala Lumpur Convention Centre
Kuala Lumpur, Malaysia
Tel: +60 3 2176 8788
Fax: +60 3 2164 8786
Email: ecobuild-sea@ubm.com

7-10 June 2017**ASEAN Sustainable Energy Week 2017**

BITEC, Bangkok
Thailand
Tel: +66 2 642 6911
Fax: +66 2 642 6919-20
Email: info-th@ubm.com
Website: www.asew-expo.com

10-12 Aug 2017**LankaBuild 2017**

Sri Lanka Exhibition & Convention Centre (SLECC)
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Fax: +60 3 2692 2788
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Website: www.lankabuild.org

9-11 Nov 2017**GreenUrbanscape 2017**

Singapore EXPO Convention and Exhibition Centre
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A Towering Achievement

Photo: © San Francisco International Airport

San Francisco International Airport gets new airport traffic control tower.

The San Francisco International Airport (SFO) has designed and constructed a new Airport Traffic Control Tower. The Tower recently became officially operational on 16 October 2016. The new tower provides air traffic controllers with an improved work environment in a structure that meets the latest seismic building codes.

“With this new Airport Traffic Control Tower, SFO is again leading the way with innovative, sustainable design,” said Airport Director Ivar C. Satero. “This facility will provide both a functional space for our partners at the FAA and an iconic landmark which will be recognisable to travelers around the world. I am grateful for the creativity and hard work that took this project from concept to reality,” said Mr Satero.

The new tower concept design was created by airport master architecture firm HNTB, with the detailed design



Photo: © San Francisco International Airport



Photo: © San Francisco International Airport

work accomplished by Fentress Architects, the design partner with Hensel Phelps on the design-build team. The resulting 221-foot-tall torch-shaped tower and offset control “cab” creates a distinctive form that sets a new design standard while being seismically sound and meeting the FAA’s strict requirements. The tower ascends in a graceful flare, with a ribbon of glass running the vertical length – reflecting sunlight during the day and illuminated by interior lighting at night. The new tower also strikes a harmonious chord with the surrounding architecture. Located between Terminals 1 and 2, the tower and base building complement the iconic features of SFO’s International Terminal.

“The FAA is proud to be working closely with San Francisco International Airport on this project,” said FAA Western-Pacific Regional Administrator Glen Martin. “When we start using the new tower next year, we’ll be operating out of a building that is outwardly striking, infused with green environmental features, and constructed according to the strictest, modern seismic standards,” said Mr Satero. With the major construction of the building complete, the FAA now takes over to ready the interior with radar, servers, receivers, transmitters, and other necessary electronic equipment. The new tower is expected to be operational by the middle of 2016.

Construction was extensive and required the utmost in skill and experience. The new air

traffic control tower is the tallest vertical self-centering post tension concrete structure in the US. The cab roof is cantilevered, the foundation is massive, and the three-storey building at the base contains office space, a public circulation area and a roof garden.

About the new Air Traffic Control Tower

The new tower represents thousands of planning, design, and construction hours. The result is a building so distinct that it is likely to become the next iconic structure in San Francisco.

Innovative design – The tower surges 221 feet in the air into a graceful, flared twist. The west face of the tower features an LED backlit glass “waterfall” that stretches 147’ in the air and is a visual landmark from the airport and surrounding community.

Focus on sustainability - The tower is designed to achieve LEED Gold status from the United States Green Building Council. Features include high energy performance with natural daylight in offices and the public lobby; a roof garden; low-flow plumbing fixture; energy efficient HVAC systems; LED lighting; electric vehicle charging stations; sustainably produced interior finish materials; and photovoltaic panels.

Emphasis on safety - The tower is structurally designed using two major criteria: seismic fluidity and wind stability. It is designed to remain operational after a magnitude 8.0 seismic event. The cab has an unobstructed 270-degree view of the runways and taxiways.

Inviting for travelers - A visitor will have the ability to stand in the Pre-security Public Corridor at the base of the tower and look straight up the tower through the skylight glass roof to enjoy the LED light waterfall.

Natural extension of SFO – The tower is the pinnacle of the SFO skyline, yet it blends naturally with the existing terminals.



Photo: © San Francisco International Airport



New Seletar Passenger Terminal. Photo: © Seletar Airport

Seletar Airport builds new passenger terminal

Seletar Airport in Singapore is constructing a new terminal and when it is completed at the end of 2018, passengers traveling through the airport will have enhanced facilities and amenities.

A groundbreaking ceremony for Seletar Airport's new terminal building was held on 20 October 2016. Mr Khaw Boon Wan, Coordinating Minister for Infrastructure and Minister for Transport in Singapore witnessed the ceremony.

The construction of the new terminal is the next stage of the renewal of Seletar Airport. Redevelopment of the airport commenced in 2008 and since then, the airport has seen several enhancements including the lengthening of its runway, the construction of a new control tower and fire station, a doubling of the number of parking stands, additional taxiways and upgraded aircraft parking aprons.



Main entrance. Photo: © Seletar Airport

New terminal will be larger when completed end-2018

The new, two-storey terminal is sited at the eastern side of Seletar Airport. It will have a gross floor area of 9,500 square metres, of which 500 square metres will be dedicated to serving business aviation passengers.

Designed for around 700,000 passenger movements per annum, the building will be significantly larger than the current terminal, which handled about 26,700 passenger movements in 2015. This will support the relocation of scheduled turboprop flights from Changi Airport to Seletar Airport upon the completion of the new terminal in end-2018.

The layout of the new terminal is dictated by clean lines and a functional design to keep the travel experience simple and efficient for all passengers. Passenger operations will take place on the ground floor, with a clear separation between the departure and arrival areas. To handle scheduled commercial flights, the departure area will have four check-in counters, four immigration counters, two security screening stations and a gate holdroom which can seat close to 200 passengers. Departing passengers will be able to go through check-in, immigration and security screening in a fuss-free manner via a straightforward route, enabling a quick and stress-free boarding process for passengers. The departure area also features a café where passengers and well-wishers can get a quick bite.

Passengers travelling on chartered business jets and private jets can look forward to a private drop-off area and a dedicated check-in area where they will be able to enjoy quick pre-departure clearance in a private and exclusive setting. The terminal will also feature amenities such a lounge area and dedicated immigration and security screening areas for these passengers.

Drawing inspiration from its lush and serene surroundings, the new terminal will sport a modern tropical look on the façade and in the interiors. The design blends warm woody tones with a theme of nature, with a landscaped garden in the middle of the terminal. Accessible from the drop-off area at the entrance, the garden will provide a calm oasis for departing passengers and well-wishers.

Upgraded airside facilities

On the airside, passengers will be able to board their flights conveniently with three aircraft parking stands adjacent to the terminal. This reduces the need for passengers to be bussed, enabling greater operational efficiency and faster aircraft turnaround time. The three aircraft parking stands will be supplemented by another 60 located at the rest of the airport.



Departure hall. Photo: © Seletar Airport



Departure hall. Photo: © Seletar Airport



Greeter Hall. Photo: © Seletar Airport



Business aviation channel.
Photo: © Seletar Airport

A new level of experience for passengers

Mr See Seng Wan, General Manager of Seletar Airport, said, "We have made good progress with the redevelopment of Seletar Airport in recent years. Today's groundbreaking for the new terminal is another milestone in our plans for the airport. We look forward to providing passengers with a new level of experience, in terms of comfort and convenience, when the terminal opens." Mr Daniel Ng, Director (Aviation Industry), CAAS, said, "The expansion of Seletar Airport will accommodate the growth of our air traffic and optimise operational resources. The new passenger terminal building will also complement operations at Changi Airport and allow for more capacity."

Experienced development partner

The construction of the new terminal will be undertaken by Takenaka Corporation, which was awarded the project following a competitive tender process. The value of the contract is around S\$50 million. The company has deep experience in airport construction. It has been involved in various construction and upgrading works at Changi Airport, including the on-going development of Terminal 4.



Landscape garden. Photo: © Seletar Airport

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Rendering: © Heathrow Airport

Benoy confirms Heathrow Airport appointment

Benoy has confirmed its appointment to the future redevelopment of London's Heathrow Airport this week. The British design firm will join the team delivering the Commercial Masterplan for Heathrow's ambitious expansion plans which will see it transformed into a next-generation, world-class airport.

Supporting the Lead Architect, Grimshaw Architects, Benoy's commercial masterplanning scope will be site-wide and consider enhancement opportunities across each of the terminal areas.

Earlier in the year, Benoy was one of four British firms shortlisted by Heathrow, alongside Grimshaw, Zaha Hadid and HOK, to deliver bold new ideas and conceptual designs to push the boundary of what Heathrow could be as the country's global aviation gateway.

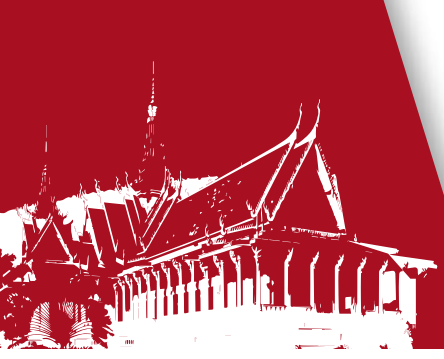
Speaking on behalf of Benoy, CEO Mr Tom Cartledge commented: "We are honoured to be joining such a passionate and outstanding team to help bring to life this ground-breaking vision for Heathrow."

"From the start of the selection process, we have shared and believed in the same outlook as our client; to blend a powerful people-centred approach within a convincing commercial and urban matrix. We are committed to seeing Heathrow continue to become a fully integrated and sustainable airport which will drive innovation and showcase the best of British design and can't wait to get started," said Mr Cartledge.

Barry Weekes, Head of Design at Heathrow Airport said: "We are very pleased to welcome Benoy with their commercial masterplanning expertise to our design team and know they will add value and experience to our ambitious design and engineering schedule. We will use their tremendous talent to build an expanded airport Britain can be proud of, playing a key part in a prosperous and outward looking trade nation."

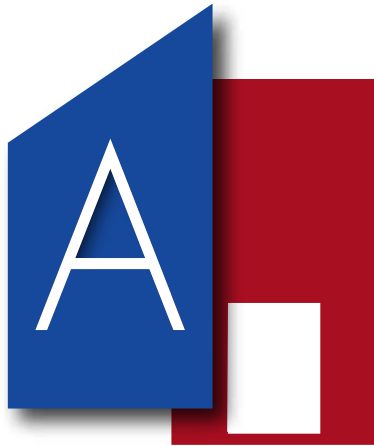
Benoy has been strengthening its presence in the Aviation sector since its work on the Hong Kong International Airport enhancement in 2010. The firm is currently delivering two of Singapore Changi Airport's most high-profile future developments, Terminal 4 (T4) and new international attraction Jewel Changi Airport. Benoy is the Concept Design Architect and Interior Designer for T4 which will open at the end of 2017 and the Retail Interior Designer and Aviation Facilities Planner for Jewel.

This year will also see Benoy celebrate its heritage as a British designer with its 70th anniversary.



Fast Facts

- In 2015 approved construction projects was value USD3.33 billion (2.5 billion in 2014), a 33% year-on-year increase (according to Ministry of Land Management, Urban Planning and Construction)
- For the first half of year 2016, 1.2 million metric tons of construction materials were imported with steel increasing by 32%, Cement by 8% and general materials by 38%.
- CBRE claimed that Future Phnom Penh condominium supply is set to be principally driven by international developers, with units delivered by Taiwan and China companies, With 36% of the planned projects falling into the high-end category.



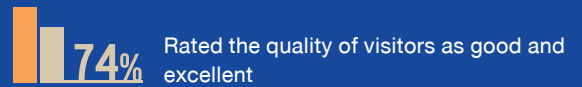
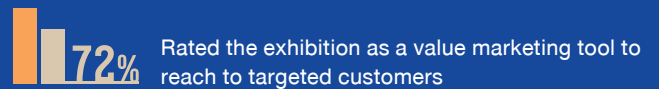
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Oasia Hotel Downtown – A new respite in Singapore

Far East Hospitality, Singapore's largest operator of hotels and serviced residences, opened the doors of its flagship Oasia Hotel Downtown, Singapore on 18th April 2016.

Located in the heart of the Central Business District and minutes away from Tanjong Pagar train station, Oasia Hotel Downtown stands out from the urban jungle with its iconic red façade and lush vertical garden. The integrated hotel-commercial development is home to 314 hotel rooms, with an abundance of open-air spaces and state-of-the-art facilities to help guests Journey Well during their travels.

Offering guests a new respite in the city, Oasia Hotel Downtown appeals to astute business and leisure travellers who seek wellness within the comfort and familiarity of the city. The hotel utilises space, design and greenery to create a unique experience conceived in line with the brand ethos and with the wellbeing of guests in mind. Anchoring the guest experience in the Oasia brand's three wellness pillars, Oasia Hotel Downtown helps the weary traveller to Refresh, Recharge, and Refuel through the various features of the hotel.

Entering the lobby at Level 12, the open-air space makes use of the natural draft to create a cool and welcoming environment to Refresh the mind and senses. Akin to being cocooned within nature, the 21 different species of creepers growing around the building's five shades of red aluminium mesh creates a vibrant mosaic of colour and life, providing much-needed fresh air in the city. Enhanced by alternating 30-metre tall sky terraces and sleek architectural details, the design is brought to life by home grown award-winning firm, WOHA, while the organic-themed interior by renowned Spanish designer Patricia Urquiola is multifaceted, fun, and full of unconventional interpretations of functionality.







Throughout the hotel, natural elements like copper and wood are consistently used along with living and breathing greenery on the interior and exterior of the hotel for a holistic and coherent experience. Cabanas, specially designed lounge chairs and unusual meeting spaces are scattered throughout the public areas, encouraging guests to take a break, relax, and conquer the day at their own pace.

In the 23 square metres Superior and Deluxe rooms, guests can enjoy the influence of Patricia Urquiola in the design as well as the functional layout of the rooms. Her unique style is recognisable through the use of earthy tones, woods and subtle touches of copper throughout the rooms. To ensure guests are always connected, each room is equipped with technological amenities. These include a Smart TV, where guests can stream their own content, a press reader for e-papers and e-magazines and also a Handy smartphone, equipped with 3G connectivity and free calls to select countries.

Travellers looking for different ways to Recharge will appreciate the open lawn on Level 12, perfect for yoga and meditation, while the well-equipped 24-hour gym appeals to fitness enthusiasts adjusting to different time zones. The two rooftop pools at Level 27, each with different breath-taking views of the city. Each level, from the 30 metres high ceilings at the Sky Terrace on Level 12 to the infinity pool on Level 21, each floor provides a spectacular view of Singapore, from the heritage view of old Singapore, the central business district and even as far as Singapore's port.

To emphasise the importance of staying healthy as you Refuel with quality nourishment throughout the day, Oasia Hotel Downtown, Singapore is home to The Marmalade Pantry, located on Level 1. Apart from its Modern Bistro cuisine and concept, guests can enjoy all-day dining with a menu developed around freshness and clarity of the ingredients. Catering to the health-conscious traveller, the hotel's in-room





dining menu offers around the clock healthy options. Guests looking to unwind over cocktails can treat themselves at the recently opened CIN CIN Bar, a secret agent themed craft gin bar situated on Level 1.

The exclusive Club experience at Oasia Hotel Downtown, Singapore is an ideal balance of work and play. With only 88 club rooms and 2 club suites, the hotel has dedicated Level 21 to club guests for an intimate and personalised experience that include access to the Club infinity pool with unparalleled views of the city. The club lounge serves complimentary breakfast between 7.00am to 10.30am, barista-prepared coffee, all-day refreshments, and two hours of complimentary cocktails and healthy canapé spread in the evenings. The 28 square metres Club rooms, like the hotel, further showcases the organic-themed décor such as natural wood and intricate designs. Guests can also enjoy an ensuite bathroom featuring a rainshower and bathtub. Club rooms also boast beautiful

views of the city and club infinity pool, and guests can enjoy complimentary in-room wellness drinks in their minibar, a Nespresso Coffee Machine for Tripod Capsules or relax with a delightful soak in the bathtub before using the complimentary pillow mist to ensure adequate rest. For unconventional meeting spaces, the hotel provides two retreat rooms on Level 12, offering a space to host functions and seminars with a seating capacity of 60 in theatre format or up to 20 based on a boardroom set-up. Set in a floor-to-ceiling glass meeting room, conference guests can enjoy the peace and serenity of the surrounding greenery to help boost their creativity.

Centrally located at 100 Peck Seah Street in downtown Tanjong Pagar, Oasia Hotel Downtown is within walking distance of the Tanjong Pagar MRT station, International Plaza Mall, Icon Village and 100 AM Shopping Mall.

All photos: © Oasia Hotel Downtown, Singapore



Hotel G makes grand debut in Singapore

International lifestyle hotel brand Hotels G recently opened its doors in Singapore featuring 308 stylish rooms complete with cutting-edge facilities, including two distinct restaurant concepts, trendy communal spaces and a state-of-the-art fitness centre. Hotel G, Singapore's new lifestyle hotel had a soft opening on 17 November 2016. AEDAS and GCP Hospitality Creative designed the hotel.

Conveniently located minutes from vibrant Orchard Road and iconic Bugis Street, Hotel G Singapore is perfectly situated at the nexus of old and new Singapore. The hotel is in close proximity to the Civic and Museums district, Marina Bay and Esplanade, Suntec City Convention Centre and with Changi International Airport a 20-minute drive away.

"We are thrilled to add Hotel G Singapore to our dynamic management portfolio of 22 hotels and resorts in Asia and the United States. The expansion into Singapore is part of GCP Hospitality's long-term plan with a brand that is already proving popular in San Francisco, Bangkok, Hong Kong and Pattaya. With Shenzhen, Macau, Yangon and Beijing in pre-opening stages, we aim to bring the unique Hotel G experience to Asia's most cosmopolitan cities," said Christophe Vielle, Chief Executive Officer and Co-founder of GCP Hospitality.

The stylish accommodations are perfectly complemented by the hotel's modern communal spaces outfitted with free Wi-Fi, perfect for business meetings or simply to unwind. Fitness enthusiasts have the flexibility to train in Hotel G Singapore's "vintage atmosphere" fitness centre. The state-of-the-art gym offers world-class training facilities and is open 24/7.

In January 2017, Hotel G Singapore also introduced its two outstanding restaurant concepts – 'Ginett' restaurant & wine bar and '25 Degrees' burger, wine & liquor bar.

Ginett is a vibrant casual dining haunt serving farm to table signature dishes, fresh market daily specials, imported cold cuts and cheeses, premium meats, exclusive wine selection and cocktails in a cozy communal hub perfect for



Hotel G Singapore is located minutes from vibrant Orchard Road and iconic Bugis Street. Photo: © HOTEL G Singapore



Reception lobby. Photo: © HOTEL G Singapore



Hotel G Bedroom. Photo: © HOTEL G Singapore



Design element in Hotel G Singapore.
Photo: © HOTEL G Singapore



Ginett is a vibrant casual dining. Photo: © HOTEL G Singapore

mingling and socialise. Named after the precise temperature difference between a raw and well-done hamburger, 25 Degrees is a sister to the legendary Hollywood flagship which has since also extended to Bangkok – serving award winning gourmet burgers and sophisticated comfort fare.

“Our location with its eclectic mix of arts, tourist attractions, access to transport and connectivity, provides the perfect ‘communal meeting place’ in the surrounding area. We’ll see less of a distinction between a traditional hotel restaurant and a neighborhood hangout, with locals – not just hotel guests – spending time here. In addition, our increasing desire to better understand the food and wine we serve is putting the focus on the quality and origin of the ingredients rather than on the formality of the room and hotel service, which we have relocated and designed to enhance the sense of arrival,” said Jason Dowd, General Manager for Hotel G Singapore.



The bar at Ginett Restaurant & Wine Bar. Photo: © HOTEL G Singapore

Hotel G is a brand of Asia’s award-winning lifestyle-hospitality management group GCP Hospitality a member of Gaw Capital Group.

With offices in Hong Kong, Beijing, Bangkok, Singapore, San Francisco and Yangon, GCP Hospitality is the hospitality arm of Gaw Capital Partners, a private equity fund management company focused on reviving underutilised real estate, predominantly in Asia-Pacific, London and USA.



Night view. Photo: © Grand Hyatt Sanya Haitang Bay

Grand Hyatt Sanya Haitang Bay Resort and Spa opens

LTW, an award-winning Singapore-based interior design studio, was commissioned to design the Grand Hyatt Sanya Haitang Bay Resort and Spa. A milestone project, the property is the hotel group's first beach resort in China.

Having worked with the luxury hospitality group on a number of previous projects, including Grand Hyatt Dalian, LTW was commissioned to design the hotel's public areas, guestrooms and suites in addition to the spa and all-day-dining restaurant.

Situated on picturesque Haitang Bay and spanning 190,000 square metres, the hotel enjoys panoramic views of the South China Sea and direct access to one of the most striking white sand beaches in China. It was officially opened in July 2016.

For centuries, indigenous Dan people have lived on the shores of Haitang Bay on the southernmost tip of tropical Hainan Island. Inspired by these boat-dwelling communities, Grand Hyatt Sanya Haitang Bay Resort and Spa was developed around the concept of a contemporary fishing village, inviting travelling families to congregate, experience a sense of community and enjoy authentic local traditions. Building on this theme, LTW has created a contemporary oasis with a design that evokes the cultural spirit of different ethnic groups in Hainan, while taking advantage of its idyllic tropical setting.

Public Spaces

The resort's architectural design is a modern interpretation of rectangular Chinese lanterns. A soaring circular lobby featuring large columns and a domed ceiling guides guests into a tropical haven of effortless luxury. To match the striking architecture, LTW has employed a warm colour palette and natural materials to create an inviting arrival experience. Within the double-volume space of the Lobby Lounge, 15-metre high glass walls frame the area while lush greenery and a vertical garden enhance the tropical vibe. Adding to the cosy setting, lights in woven baskets hang from the ceiling, creating a relaxing setting for guests to unwind and escape from frantic pace of the urban world.

The Li ethnic minority, the original inhabitants of Hainan, are renowned for their weaving and embroidery, which has been named by UNESCO as an intangible heritage asset. Drawing on this tradition, LTW has incorporated ethnic elements in an eye-catching feature wall that serves to divide the various spaces within the grand lobby.

Traditional woven patterns were also reinvented and paired with ceremonial colours and curated artwork to complement the deluxe marble, mosaics and streamlined furnishings, all impeccably styled for discerning resort travelers.

Grand Café

Inspired by Hainan's history as a fishing village, Grand Café – the resort's all-day dining restaurant - reflects the colours of the sea and the sand with an emphasis on blue and yellow. Fashioned as a beach house, the extensive use of timber adds a rustic tone. Echoing this theme, the stone floor is patterned with timber circles to represent drops of rippling water, reinforcing the hotel's sense of place. As a final touch, LTW sourced specially-designed artwork to adorn the walls of the restaurant.



Lobby. Photo: © Grand Hyatt Sanya Haitang Bay



Reception. Photo: © Grand Hyatt Sanya Haitang Bay

Guestrooms and Suites

The elegant, contemporary guestrooms provide a comfortable retreat with spacious layouts and picturesque views of the ocean, garden or mountains. Continuing the fishing village theme, LTW used raw textured materials and natural palettes for the rooms, contrasted against sleek silhouettes. The beauty and delicacy of traditional local craftsmanship is evident in the artwork and bespoke wall coverings.

Huan Spa

Huan Spa is set within its own 16,000 square metre spa village and gardens. An intimate environment for guests to feel refreshed and rejuvenated, LTW has used a neutral palette and natural materials to connect with the outdoor environment. To introduce outdoor elements into the space, colourful installations made with fresh flowers are dotted throughout the spa, further enhancing the guests' sensory journey.

Ballroom and Function Areas

Designed to resemble exclusive luxury residences, the seven meeting and event Salons of the hotel feature open kitchens to create one-of-a-kind event experiences. Within the meeting spaces, contemporary elegance is contrast against tribal patterns in beautifully woven fabrics, once again highlighting the beauty of traditional craftsmanship.

The Grand Ballroom, featuring an expansive 900 square metre space and seven-metre high ceilings, includes large French doors along one side of the ballroom that open to an outdoor garden offering refreshing views of nature and sunlight.

Continuing the hotel's subtle design narrative, traditional symbols seen in Li's cultural celebrations are cleverly infused into the spaces, from the pre-function areas to the Grand Ballroom. The understated design, combined with refined lighting, creates elegant banquet spaces for any special occasion.

Throughout the project, glass panels were used extensively to bring the beauty of the nature into the interiors. Reflecting local culture and traditions, Grand Hyatt Sanya Haitang Bay is a haven of understated elegance and calm.

Leading the regional design scene since 1980, LTW is an international studio specialising in luxury hospitality interiors.



Grand Cafe. Photo: © Grand Hyatt Sanya Haitang Bay



Grand Ballroom. Photo: © Grand Hyatt Sanya Haitang Bay

With a portfolio that includes the world's top hoteliers and luxury developers, LTW has designed more than 100 hotels on five continents and currently has over 20 projects in development.

Based in Singapore with satellite offices in Beijing and Shanghai, LTW has assembled a multilingual and culturally diverse team of over 100 creative professionals working across a broad spectrum of design disciplines.



Grand Twin Room. Photo: © Grand Hyatt Sanya Haitang Bay



Grand Suite Living Room. Photo: © Grand Hyatt Sanya Haitang Bay

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Hirsch Bedner Associates designs Landmark Four Seasons Kyoto, Japan

Hirsch Bedner Associates (HBA), one of the world's leading hospitality interior design firms, has completed the highly anticipated design of the new Four Seasons Kyoto, which opened on 15 October 2016. It is located within one of the best-preserved historic cities, with intact palaces, gardens, Buddhist temples and Shinto shrines.

The Four Seasons Kyoto features 110 standard rooms, 12 suites, one presidential suite and 57 condo units. Designed to be a haven of quiet dignity and discreet expression, the Four Seasons Kyoto's design narrative was carefully planned surrounding the 800-year-old Ikeniwa Pond, inviting guests to engage with nature through its blueprint. A rich model of modernism resonates throughout the hotel while carefully maintain traditional Japanese conceptions of architecture.

"This project made many demands of our design team: the proximity to the culturally sensitive Imahie Jingū Shrine, The Kyoto National Museum, the protected Ikeniwa Pond and the exacting standards of the Four Seasons Hotels team," said HBA Co-CEO Ian Carr.

"Our team brought all these influences together and created a design tour de force sitting harmoniously between tradition and modernity, simplicity and luxury. Working with a talented team of artisans and artists, we are proud to have played our role in creating a new landmark in Japan's hospitality landscape," said Ian.

"Five years ago, we began working on the design for the Four Seasons Kyoto and immediately recognised the tremendous respect and honour the region and Ikeniwa Pond commanded," said Agnes Ng, partner and lead designer on the project for Hirsch Bedner Associates (HBA).

"Our concept paid respect to both aspects of the property with our understated, graceful design, which had minimalist undertones featuring intricate details. The hotel is meant to be a haven for contemplation – we designed every facet of it to open up to views of Ikeniwa, allowing the design to serve as a window to the pond, never detracting from it," said Agnes.

Lobby and Arrival Experience

Guests are greeted into the hotel by an alluring bamboo forest that leads to a Japanese garden sanctuary. As one of the only cities in the world with four distinct and highly photogenic seasons, Kyoto flourishes with spring cherry blossoms, swaying bamboo in summer, brilliant red autumn leaves, and the blanket of winter snow – each one framed by expansive windows.



Lift lobby. Photo: © Will Pryce



Lobby. Photo: © Will Pryce

Bringing the outdoors to the interior, the vast lobby space seamlessly adapts with every season to evoke constant, yet ever-changing emotions with guests. The use of locally sourced traditional shoji paper screens creates interesting soft shadows as light casts through them. HBA designers used natural Aji stepping stones to pave the ground, reminiscent of a Zen garden.

"The essence of the lobby lies in its simplicity and generosity of its gestures. The harmonious integration of space and environment lends to the importance of the site's context – the pond," said Agnes. "Large discreet spaces of respite and dramatic linear views to the pond and beyond dictate the lobby space – the design orchestrates a sense a simple elegance, sensuality and discovery that reveals a further focal point to the pond," she added.



Presidential suite bedroom. Photo: © Will Pryce

Guestrooms and Residences

A personal space inspired by tranquility, the rooms at the Four Seasons Kyoto reflect the characteristics of a traditional Japanese house. The quiet and elegantly simple lines of wooden slats greet guests upon entering the space is enhanced by the deliberate shadows cast by light that sheds through. Fusuma screens decorated with artwork by local echo artists further celebrate the culture. The view to the outdoor sanctuary is framed by oak wood architrave that acts as a center point, immersing guests in Kyoto's heritage.

Traditional tatami was implemented in a modern way to preserve and respect Kyoto's tradition by adding a Japanese pattern motif. A vibrant purple hue is used throughout the design, providing a stately and royal context for the country. Natural edge-carved oak wood flooring enhances the natural Japanese imperial villa experience. Restrooms are a luxurious space for guests to immerse themselves in the calming, soothing effects of water inspired by the pond. Decorative vertical stone walls and a luxurious rain shower create an oasis for guests to relax, simulating a waterfall within a bamboo forest.

Wedding Chapel

Inspired by the natural movement of swaying bamboo leaves, the wedding chapel evokes an emotional response that offers an engaging relationship with nature. The design works to embrace the context between nature and the purity of spaces by framing the views and enveloping the interiors with motifs



Guestroom bathroom. Photo: © Will Pryce



Swimming pool. Photo: © Will Pryce



Wedding chapel. Photo: © Will Pryce



Ballroom. Photo: © Will Pryce

of bamboo leaves. The undulating structure envelops around the space, while glass windows provide a frame for the soaring and sunlit spaces.

Staircase

Designed to be the gateway to celebration, the staircase offers a modern architectural form – the fusion of contemporary design with traditional skills. The form of the staircase contrasted by the softness of the traditional washi paper partitions creates a characteristic Japanese space that is soft and luminous. Locally sourced washi paper specially designed by local artisan Eriko Horiki, who uses traditional methods in creating traditional Japanese paper, gives an ambient atmosphere through the textures of shadows created by light filtering through. Complemented by the gentle sounds of the trickling water feature, the staircase draws guests to move about the space.

Ballroom

Acting as a theatrical expression of seasons, nature and celebration, the ballroom walls are adorned with locally sourced tapestries and artwork that references delicate

bamboo leaves. The show kitchen, designed as a tea house, sits within the space and enhances the traditional Japanese experience with refined design touches. Carpet flooring reflects the pond in another exercise in paying subtle homage to Kyoto's environment.

Spa

The Spa at Four Seasons Kyoto is a haven of *Kyo no iyashi*, meaning 'Kyoto healing' and features seven treatment and wellness-technology rooms, including a VIP couples' spa suite. Roji path stepping stones to a waterfall cascading from a stone bridge usher guests into an oasis of calm and tranquility. The dramatic indoor swimming pool takes its design form from the pond, while a series of Japanese pavilions invite guests to lounge in an intimate setting.

Meeting Rooms

Referencing imperial palace architecture, meeting rooms serve as transitional spaces that offer formal privacy with a reserved, sophisticated touch. The overall simplicity of the space is juxtaposed with intricate carvings demonstrated through cedar timber doors that showcase Kyoto's seasons.

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The Myconian K Hotels – A new twist on luxury

The Myconian K Hotels in Greece offer a new twist on luxury by GM Architects.



Photo: © GM Architects



Photo: © GM Architects

GM Architects has announced the stylish and unique re-design of the Myconian K-Hotels after six months of extensive renovations and interior refurbishment.

The trio of luxury top-end establishments belongs to the Myconian Collection, a family-owned group of leading resorts that are located on the beautiful Greek island of Mykonos. The three K-Hotels consist of the five-star 'Kyma', the magnificent 'Naia' as well as the Relais & Chateaux endorsed 'Korali'. Renowned for their impeccable service and exceptional location these luxurious hotels are all situated on the edge of Mykonos town, overlooking the iconic Alefkandra windmills.



Photo: © GM Architects

"I am a great believer in the power of architecture to positively impact upon our ability to get the most out of life," said Galal Mahmoud, founder of GM Architects.

In June 2016, the architecture and design firm GM Architects that has offices in Beirut and Abu Dhabi, completed the renovation and refurbishment of the high-end luxury boutique destinations, giving each one its own individual character.

Working closely with the Daktilydes family – the owners of the Myconian Collection, the brief consisted of constructing the brand-new Naia establishment as well as dramatically transforming the existing Kyma and Korali hotels.

The project included a major re-design of all the interiors as well as a restructuring of the guest bedrooms extending them by three metres to allow for larger, airier spaces to echo the expansive landscape. Communal areas such as the outdoor pool of the Korali hotel were renovated in order to cater for the construction of the Naia hotel.

Adopting a contemporary and fresh approach to the Greek Mediterranean, Galal Mahmoud drew inspiration from Mycenaean and Cycladic culture to help him come up with a new concept for the location's overarching architectural vision. Combining old and new to create timeless elegance, escapism and spaces to connect to the beautiful natural surroundings, the K Hotels are highly unique with each destination embodying a different theme.

"I design my architectural spaces, both interiors and exteriors, to be experienced as pathways to well-being,



Photo: © GM Architects



Photo: © GM Architects



Photo: © GM Architects

at one with their surrounding environment and the natural world," added Galal Mahmoud.

The Naia seduces with rustic stonewalls, four-poster beds, panoramic verandas and private pools that blend seamlessly with the ocean's horizon line. Generous proportions and handsome design carefully considered to the finest detail come together to create unparalleled comfort and atmosphere.

Equally stunning, the Kyma is an all white two-storey hotel with ample spaces and scenic balconies with spectacular views overlooking the arid landscape. The spirit of Mykonos is present in every shape, every contour and even the very fabric of the hotel. A place of open spaces and clean lines, Galal Mahmoud has remained true to classic ideals of beauty: shades of royal blue that contrast with the purity of white.

Meanwhile a more contemporary and fresh aesthetic was adopted for the Korali where urban-inspired furniture and colourful fabrics fuse together to create a more vibrant "art de vivre" approach. Some of the items were custom designed and produced by famous local manufacturers such as Artemide who created the "Achineo" (sea urchin in Greek) bedside lamps, specifically designed for the interior setting of the hotels. Others were directly sourced from well-known design brands giving all the three locations a signature and personalised feel.

With a great affection for Greece, and the island of Mykonos in particular, Galal Mahmoud was proud to be a part of this large-scale and extensive project.



Photo: © GM Architects



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Fytogreen makes St Bernards College green and gorgeous

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With over 800 plants, and a design pallet of 22 different species, the roof top garden utilises the roof-space to create a fabulous outdoor area for the students to enjoy.

For more information, visit www.fytogreen.com.au.

PROJECT DATA

Project: St Bernards College

Location: Melbourne, Australia

Client: St. Bernard's College

Architect: Smith + Tracey Architects

Project Builder: ADMA Group Pty Ltd

Design & Install of Vertical Wall & Roof Garden:

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Completion: March 2016

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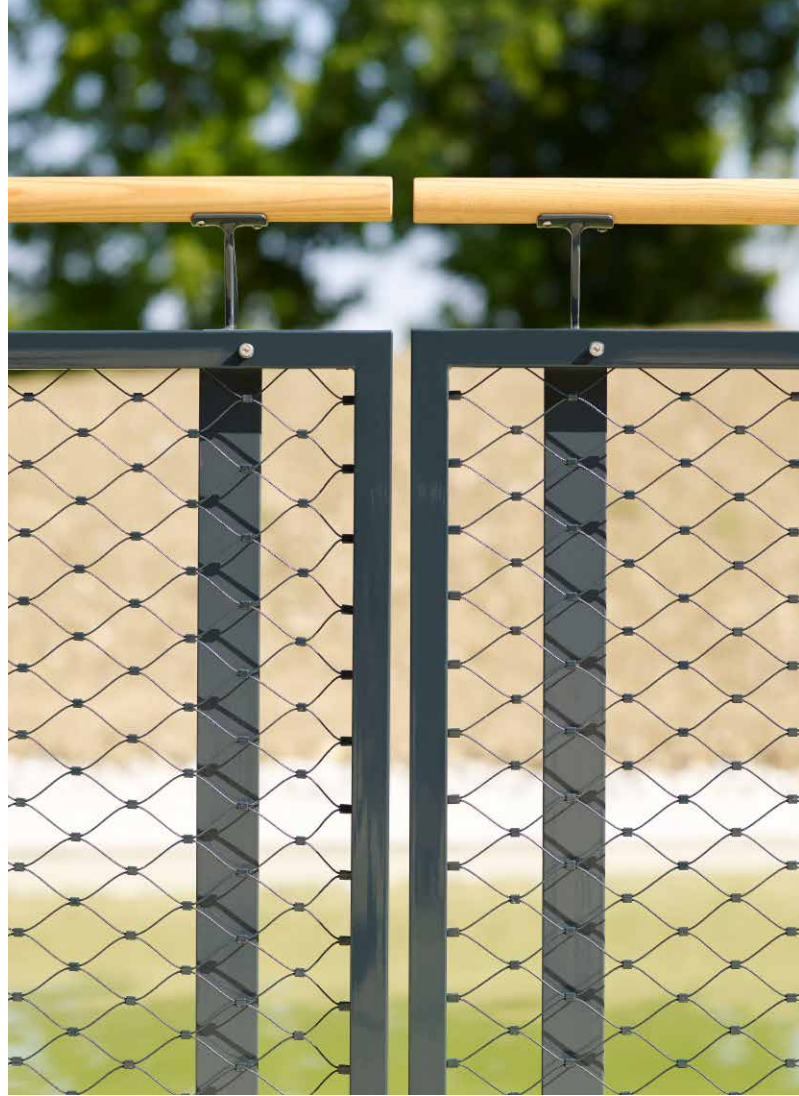
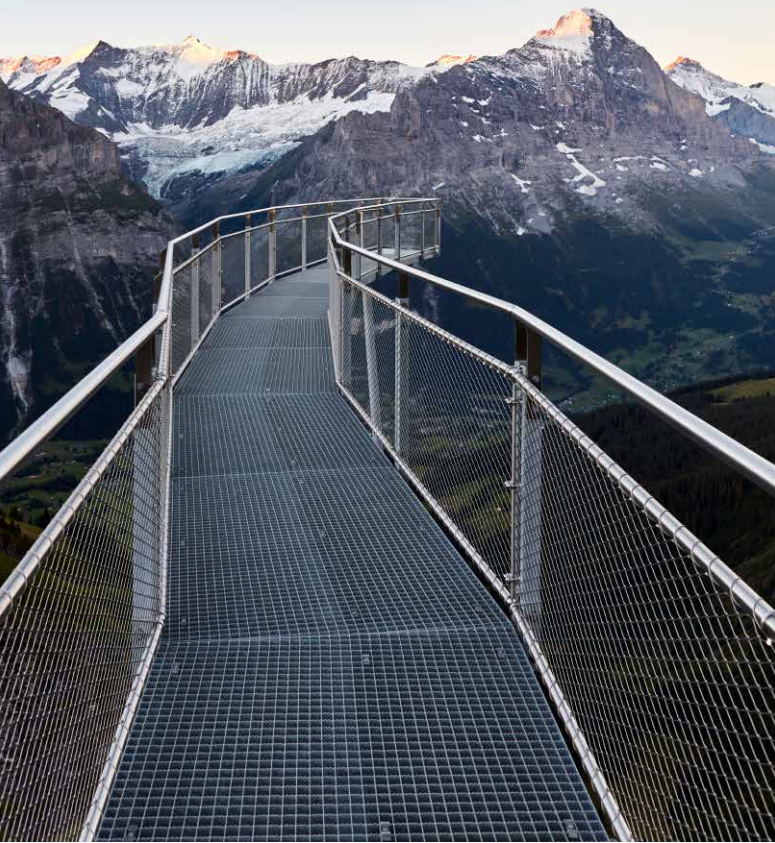


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Merging design

Harmonization of product design and technology brings many advantages

Specifying, combining, ordering and installing products from different manufacturers can be a big challenge – particularly when the companies are rooted in different countries. The key to success lies in leveraging the strengths of both parties, combining the best of both and as a result creating something better. This applies to many aspects of dormakaba's merger, and it is especially true of product design. The harmonization of award-winning design and technology from Dorma and Kaba will bring about many benefits for customers and partners, from the ordering process to maintenance.

Swiss Made and Made in Germany are established global trademarks. They represent inventive talent, creativity, systematic thinking, excellent quality and programmatic design. A strong common heritage and a powerful reputation that Dorma and Kaba have enjoyed for more than 150 years. But the connection between the two enterprises goes much deeper than heritage and reputation.

“Swiss Made and Made in Germany are established global trademarks.”

“The aesthetic product design languages of Dorma and Kaba are based on similar principles,” explained Bernhard Heitz, Head of Product Design at dormakaba. “Both are rooted in the Bauhaus philosophy with its combination of craft and fine art. This simplifies the merging of both aesthetics in many ways. The merged dormakaba product design will align both Dorma and Kaba design languages. It will keep the uniqueness of both, while looking into the future at the same time.”

The consistent application of the branding, the icons in the user interface and the alignment of colors are just some aspects of the new dormakaba product design. Framing and layering, for example, will be important design principles in future developments. The characteristic Kaba framing, which adds a case around readers or access devices, will be combined with the layered composition of Dorma, which uses several layers of different materials, such as the award-winning design of the Mundus patch fittings.

To ensure consistency in design and functionality across the various product segments globally, the key principles of the new product design are summarised in the dormakaba design manual, with a toolbox available for everybody involved in the development process. The toolbox represents a strong basis for the formal design of all future dormakaba products.

By providing guidance and continuity in design, it forms an essential platform for innovation and creativity. And it does much more than that: it serves as an effective guarantor of increased product quality and compatibility, thanks to its consolidation and simplification of development and production processes.

The benefits of this for customers and partners throughout the world are obvious – dormakaba products can be easily combined. Shapes, colours and surfaces and a consistent look and feel of products and interfaces make planning, installation and maintenance easier and more efficient. In addition to the design aspects, the technological unification will allow seamless cross-linking of products with intelligent building automation.

“We aim at creating products that are plug-and-play, easy to use and easy to understand,” said Bernhard Heitz. “In other words, we want to give peace of mind to customers and partners at all times. Simplicity is the result of a thorough design process. dormakaba design is a big step to ensuring this.”

For more information, visit www.dormakaba.com.sg.

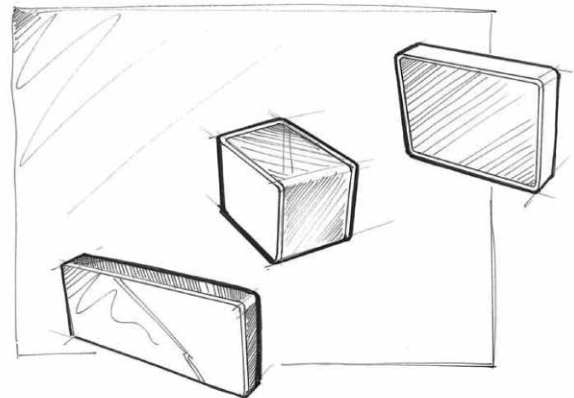
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The layered composition of different materials is typical of Dorma products.



The design illustrates the characteristic Kaba framing around readers and access devices.



The new dorma+kaba aesthetic design merges the best of both worlds.



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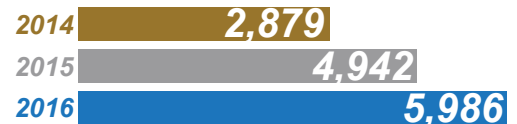
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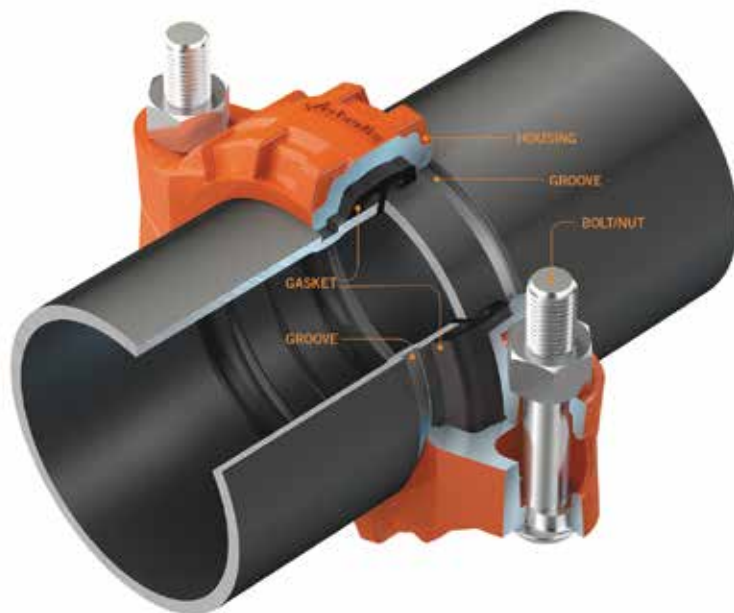
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Common Myths About Mechanical Pipe Joints

Text by David Hudson – Engineering Services Fellow, Victaulic

Grooved mechanical pipe joining is a technique that was pioneered during World War I as a fast and reliable way to transport fuel and water to the Allied troops, and has become a preferred joining method on both industrial and commercial piping applications when compared with welding, threading and flanging. The mechanical joint, or coupling, is comprised of four elements: the grooved pipe, the gasket, the coupling housings, and the nuts and bolts. The pipe groove is made by cold forming or machining a groove into the end of a pipe. A gasket enclosed in coupling housings is wrapped around the two ends of the pipe, and the key section of the coupling housing engages the groove. The bolts and nuts are tightened with a socket wrench or impact wrench, which holds the housings together. In the installed state, the coupling housings encase the gasket and engage the groove around the circumference of the pipe to create a leak-tight seal in a self restrained pipe joint.



Four elements comprise a mechanical joint: the grooved pipe, the gasket, the coupling housings and the fasteners.

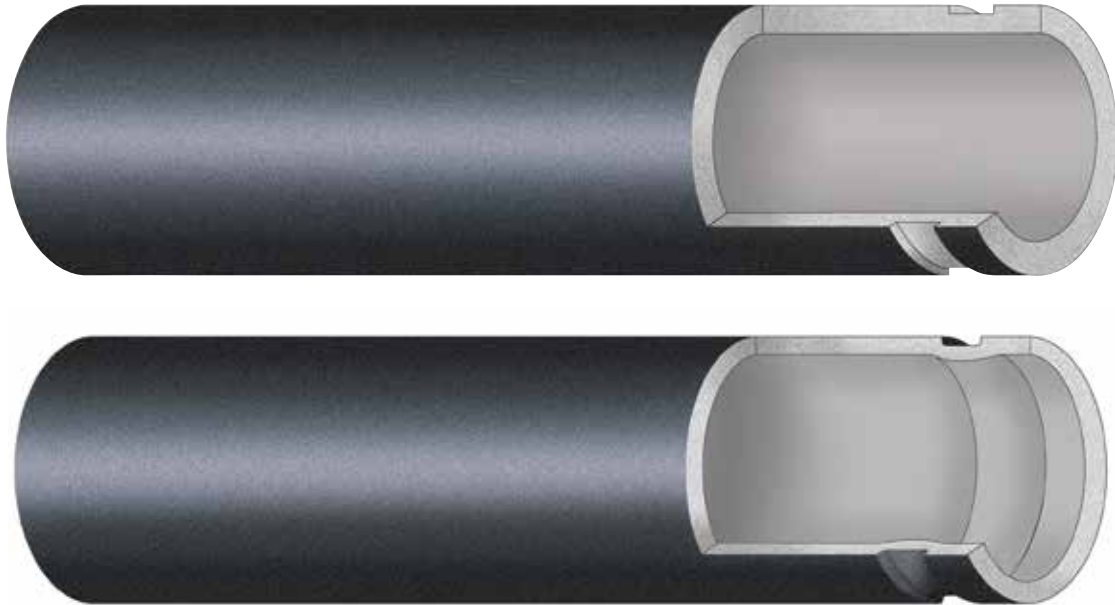
The grooved method has gained widespread use, but even after 85 years, many myths and misunderstandings regarding the engineering and performance of the grooved joint still exist. The benefits of the grooved system are plentiful: rigid and flexible coupling options meet system designers' needs, a union at every joint allows for ease in system maintenance and expansion, noise and vibration are attenuated as vibrations are not transferred through the piping system, and seismic movements are accommodated through strategic use of sway bracing and flexible couplings. However, the bottom line question will always be, 'Is it reliable?'

This article will explore the following misconceptions about the grooved mechanical pipe joining method:

- The indent left from the roll grooving process contributes to flow loss
- The grooving process weakens a pipe and leads to stress failures
- Couplings cannot create a truly rigid joint and therefore the piping system will sag overtime and requires additional support compared to a welded system

Cut and roll grooving

In terms of pipe preparation, there are often questions about how a groove is formed into the pipe and how that affects the pipe's performance in different applications. There are two forms of pipe grooving: roll grooving and cut grooving.



The two types of groove configurations. The roll groove differs slightly from the cut groove.

Used in approximately 90 percent of all grooved piping applications, roll grooving is the most common grooving method. Roll grooving was developed more than 50 years ago, and first used on light or thin wall pipe, which opened the door to a fast, economical method for mechanically joining light wall pipe. Today, roll grooving is used on a wide variety of pipe sizes and wall thicknesses because it is a fast and clean technique. The roll grooving process radically displaces a small portion of the pipe wall in a cold forming process. To form a groove, the pipe end is placed between the roll set of a grooving machine. As the roll set closes, the pipe is compressed and rotated, forming a groove around the diameter of the pipe, which is recessed on the outside and indented on the inside. Roll grooving can be processed on schedule 5 through ANSI standard wall thickness carbon steel and stainless steel, copper and aluminum pipe or tubing, and up to schedule 80 PVC plastic pipe. Roll grooved systems can range in diameter from $\frac{3}{4}$ -inch up to 60 inches in some materials.

Cut grooving is commonly used on pipes with wall thicknesses of ANSI standard wall or greater, and for abrasive applications where the inside of the pipe wall needs to be as smooth as possible to allow materials to pass without obstruction. The smooth, continuous inside pipe surface remains when the groove is cut, making cut grooving ideal for use with systems requiring plastic coating, cement lining or other protective linings for corrosion or abrasion reasons. Cut grooving involves the removal of a small fraction of pipe material – one third of the total pipe wall thickness – in order to provide the necessary lip for engagement of the coupling housings. Compared to threading pipe, cut grooving removes less material, to less depth. Cut grooving can be completed manually or with motorised tools.

Flow dynamics

One of the concerns associated with grooved mechanical piping is that the indentation on the inner pipe wall created in the roll grooving process will have a negative effect on the dynamics of system flow. However, the indentation on the pipe is small and smooth at its entry and exit. The indentation is also located at the pipe wall, which is the location of lowest flow velocities as determined by the velocity profile of fluid flow through pipes. The insignificant pressure losses are so small that they are considered negligible when compared to other pressure losses, such as those from pipe friction, valves, bends and branches.

Flow testing conducted at Victaulic on roll-grooved joints confirmed that the joints have excellent flow characteristics. Flow tests were conducted on grooved and plain-end pipe using 4-inch Type “K” copper tubing and 2-8 inch schedules 10 and 40 carbon steel pipe. Pressure drops were measured over flow velocities of 4, 8, 12 and 16 feet per second at ambient water temperature. For all tests, pressure taps were located 10 feet apart on a straight section of pipe/tube to establish a baseline measurement. Pressure readings were measured at the aforementioned flow rates. After pressure losses were recorded, the pipe/tube was removed and cut into four segments to allow for three roll grooved pipe joints between the pressure taps.

Flow velocities and the 10-foot pressure tap spacing were maintained for both carbon steel and copper. After the pressure losses were recorded, the baseline loss across plain-end pipe/tubing was subtracted out. The remainder was divided by three (the number of roll grooved pipe joints). The average loss of each grooved coupling joint in equivalent feet of pipe was no more than 0.55 feet.

These findings are also supported through independent testing by Factory Mutual Research Corporation. Factory Mutual's Loss Prevention Data Technical Advisory Bulletin 2-8N stipulates one equivalent foot of pipe to be added for each roll grooved joint on any pipe size. This is conservatively higher than actual test values, yet still relatively low compared to the values established for components such as valves and fittings. These values further attest to the low loss characteristics of roll grooved joints.

Roll grooving is a consistent process and flow loss can be accounted for during the design of the system. Although, in theory, welded systems create little to no flow loss at the joints, variables of craftsmanship can lead to welding material entering the pipeline, interfering with flow and, in some cases, dislodging and causing a system blockage.

Pipe stress

Another concern about the grooved mechanical pipe joining method is the ability for a grooved joint to perform adequately under stress. Regardless of the method used in pipe joining, when a pipe is under pressure, two basic stresses occur: longitudinal and hoop. Longitudinal stress is a "tensile" stress, pulling the pipe in an axial direction. A failure due to longitudinal stress creates a circumferential fracture on the surface of the pipe. Hoop stress is a ballooning or expansion of the pipe in a radial manner, and the potential failure because of this stress is a split lengthwise along the axis of the pipe.

Applied to piping, the elasticity law dictates that hoop stress is twice longitudinal stress:

Hoop stress = (Pressure x Outside Diameter) / (2 x wall thickness)

Longitudinal stress = (Pressure x Outside Diameter) / (4 x wall thickness)

What this means is that when simulating overstress failures, a fracture is most likely to occur along the length of the pipe – in a weld seam, for example – not the circumference of the pipe. The above formulas show that a decrease in wall thickness will result in an increase in hoop stress. In the grooved method, the "hoop" is actually reinforced by the coupling housings, which engage in the groove to prevent diametric expansion. This means the grooved technique does not create greater hoop stress on the pipe, and therefore does not make the pipe weaker.

Any potential increase in pipe hardness, reduction in tensile strength or reduction in elongation due to the roll grooving process has no effect on the pressure capability of the joint, and pipe material changes are comparable to any other cold-forming manufacturing operations.

Cut grooving reduces the wall thickness by removing a narrow circumferential strip of material from the outside surface. The hoop stress remains approximately the same since the groove is narrow and reinforced by the full wall thickness of pipe on either side of the groove. The groove is also reinforced by the coupling key engaging in the groove, preventing it from expanding diametrically. However, the longitudinal stress will increase proportionally with the decrease in the wall thickness. Therefore, if one half of the original wall thickness remains, longitudinal stress will be doubled or approximately equal to the hoop stress.

Since the cut groove depth in standard wall thickness pipe removes only about one-third the original pipe wall thickness, the hoop stress will remain larger than the longitudinal stress. Any "over-stress" failure will continue to occur along the length of the pipe and not at the groove, demonstrating that the groove area is not weaker than the longitudinal barrel of the pipe. Again, this means that the strength of the joint is not compromised because of the groove.

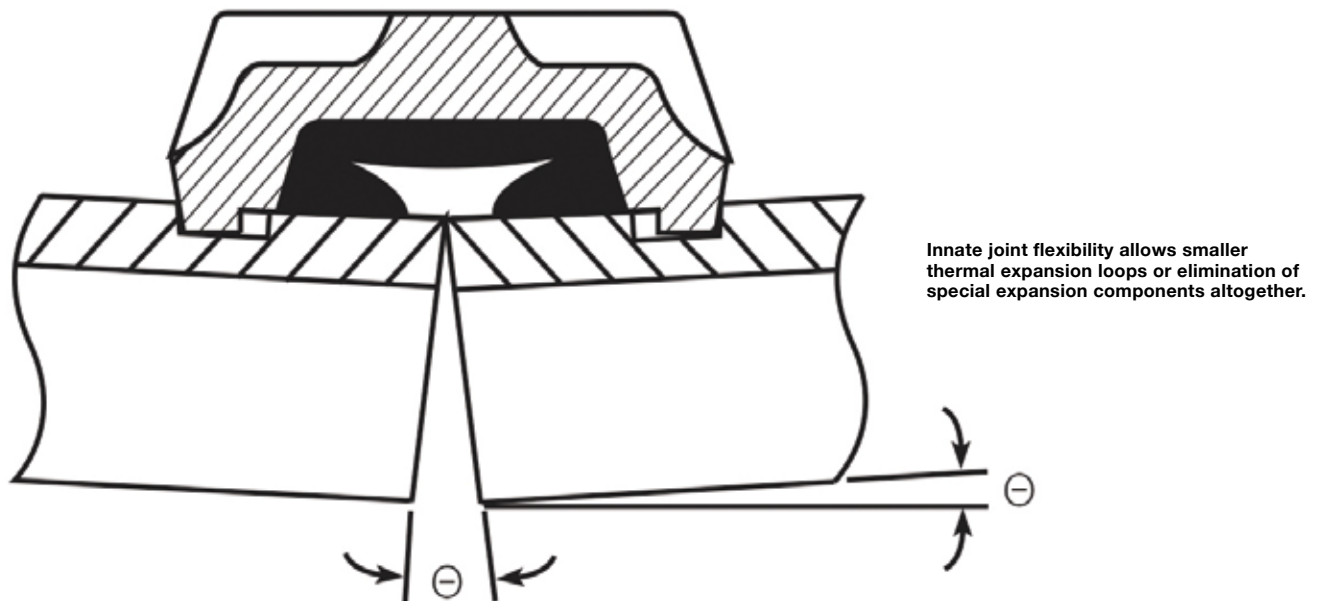
Additionally, one must consider that the pressure rating on grooved mechanical pipe joints is determined in consideration of all the components. Grooved pipe has no rating without the corresponding coupling, and "coupling ratings" change depending upon the piping material and wall thickness. Every manufacturer's published pipe joint rating is calculated and/or tested on pipe that contains a groove, meaning that any potential effect of the groove on the strength of the pipe is incorporated in to the performance rating of the coupling.

Rigid vs. flexible systems

One last misconception about the grooved mechanical pipe joining method is that couplings cannot create rigid joints within piping systems, and require extra supports to prevent system sagging over time.

A rigid coupling is designed so that the housings positively clamp the pipe to create a rigid joint, providing system behavior characteristics similar to those of other rigid systems, in that all piping remains strictly aligned and is not subject to axial movement or angular deflection during operation. For this reason, systems installed with rigid couplings utilize support techniques identical to those of welded systems when designed and installed according to the hanger spacing requirements as noted in the ASME B31.1 Power Piping Code, ASME B31.9 Building Services Piping Code and NFPA 13 Sprinkler Systems Code.

In most commercial and industrial systems, piping experiences dimensional changes that results in stress and potentially damaging forces due to temperature fluctuations. Flexible couplings can accommodate this thermal expansion and contraction by allowing for linear movement and deflection. Flexible couplings may be used in close proximity in series to accommodate up



to 3 inches/76mm of linear movement, may be used at system changes in directions to provide “stress free” offsets, or may be used on “traditional” expansion loops, resulting in loops one-half to one-third the size of a loop of welded construction. Although flexibility can be achieved on both roll and cut grooved systems, the same coupling can achieve as much as twice the flexibility on a cut grooved system due to the geometry of the grooves.

Proven reliability

When it comes to specification of piping systems, the ultimate factor is reliability. Mechanical grooved pipe joining has been proven through research, testing and extensive evaluation. It has stood the test of time in some of the most demanding industrial markets, including power generation, primary and secondary oil production, Canadian Oil Sands high pressure piping, biofuel production, and water system technologies including reverse osmosis and nanofiltration. Furthermore, it has been a reliable component of mission critical applications such as data centers, flammable chemical cleaning applications, locomotive engine fuel and cooling lines and in hydraulic elevator services.

Conclusion

Engineers, contractors and owners can be assured that grooved piping technology has been thoroughly tested, both in research and in the field, and has consistently demonstrated its strength and reliability. Myths about the grooving process, rigidity of the system, elasticity and stress, and the flow characteristics are easily explained, and indeed, when the versatile and economic nature of the method is considered, it is clear that grooved mechanical pipe joining can and should be the preferred choice when appropriate.

About the author

David L. Hudson is an Engineering Services Fellow at Victaulic, a leading manufacturer of mechanical pipe-joining and fire protection systems. In this role, David works on projects that increase Victaulic’s exposure as a solution provider in the piping industry. He serves as a technical resource for developmental engineers, marketing, manufacturing and executive management; investigates high-level field installations as to product usage and performance; and drafts technical literature and articles for publication. David joined Victaulic in 1981 and was named a Senior Product Engineer in 1992, prior to assuming his current role in 2010. David has been active in a variety of industry associations, including the American Society of Civil Engineers (ASCE), the Manufacturers Standardization Society of the Valve and Fittings Industry (MSS), American Water Works Association (AWWA), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and the American Society of Mechanical Engineers (ASME). He holds a bachelor’s degree in mechanical engineering.

For more information, visit www.victaulic.com.

New generation of cable management systems and accessories from OBO Bettermann

In today's world, electrical and electronic products form an intricate part of our everyday life. With more and more such products being developed, we have more and more cables to deal with. Even with the advancement in wireless technologies, we still have to deal with power management routines like charging of mobile phones which requires cable. As such, traditional power source outlets face an overwhelming challenge of coping up with the demand. Power extension sockets may do the job but it lacks the aesthetic element to blend well into today's modern home and office design.

Hotel seminar rooms, office workdesk, conference tables, kitchen counters, laboratories and the like has always been the point of interface between human and machines. The everyday task of managing devices, appliances and cable management can be reinvented to a whole new level with the adoption of beautifully designed cable routing options. OBO Bettermann from Germany, brings about a new generation of cable management systems and accessories which functions matches seamlessly with its design.

DBK2: The foldable second generation Deskbox

A new lease of life for a successful product: The foldable Deskboxes from OBO Bettermann are now available with a practical additional function. Thanks to the "Push to Open" function, the lid of the table top socket opens automatically with just a slight push – allowing simple, elegant and reliable access to all kinds of connections at the workplace or in the conference room. The range of applications of the foldable Deskbox DBK is huge. Whether it is a laptop, a beamer or a PC you would like to connect, it couldn't be simpler. Open the lid, put the plug in, then close the lid. The integrated brush bar allows tidy running out of the cables.



embed themselves and their design in high-quality interior furnishings in homes and offices.

High-quality design

The second generation of Deskboxes are as elegant as ever. With a lid and frame made of brushed stainless steel, they have no need to hide in the shadows, but also instead

Full range of connection sockets

Do away with the need to look for that cable adaptor in order to charge your mobile phone. With direct USB sockets, it is only as simple as plugging the cable in. Also available with a full spectrum of connection sockets including Power, HDMI, VGA, DVI, Audio and Data, the Deskbox offers itself as a media connection hub for all your connectivity needs.



DB: Deskbox for table top clamping

The Deskbox DB offers unparalleled flexibility for mounting or clamping onto table tops and even below table tops. Housed in attractive anodised aluminium casing, the Deskbox DB provides individual workdesk and seminar rooms with table top accessibility of power and connection sockets.





Application reference of hotel seminar rooms, Deskbox DB allows hotel facility team to quickly mount and dismount the units before and after any events. With attractively design mounting stands and options, the Deskbox DB also stands out as a visual enhancement to the overall environment.

ISS Service Pole

When the need arises for group sharing of bigger number of power and connection sockets, the typical underfloor service outlet boxes does not provide sufficient as well as a user friendly way of plugging in the numerous sockets. In such cases, OBO Bettermann's floor to ceiling height ISS service pole presents an elegant and efficient way of offering bigger numbers of power and connection sockets.



Service pole, ISSRM45

An extremely slender, round aluminium profile ensures that the pole, available in pure white or anodised form, is amazingly elegant. On the smooth front side, there is a 45 mm system opening for the mounting of Modul45 devices for power and data connections.

Service pole, ISSDM45

It is similar to the ISSRM45, but has a profile which can be

equipped on both sides, offering even more capacity and flexibility in installation.

Service poles ISS110100 and 140100

The service poles of this family are made up of a slender pipe and, in the lower area, areas for Modul45 device installation attached on one or both sides.



Application reference of open concept office, ISS service pole provided 4 individual workdesk with a total of 24 power and data sockets. The floor to ceiling height service pole allows precise positioning of specific power and data sockets to match user requirement as well as providing comfortable access at table top height.

Rapid 80 Wall Trunking

With ever changing landscape even within homes and offices, the need for expansion and repositioning of power and connection sockets become increasingly important. In-wall sockets provide a minimalistic appeal but lacks functional flexibility for expansion and repositioning. OBO Bettermann's Rapid 80 wall trunking system gives wall cable routing a whole new definition. Available in plastic, sheet steel and aluminium, Rapid 80 wall trunking promises the fastest way of installing new and more power and connection sockets with simple and modular connection methods. A whole plethora of design and colour selection also exists for matching any facility's interior theme requirement. Now, adding a new fan to the corner of the room becomes so easy and straightforward.



For further information on products and services, visit www.obo-bettermann.com.sg. To get in touch with OBO Bettermann SEA, contact Mr James Gan, Sales Engineering Manager, at tel (+65) 6702 1886, (+65) 8822 0286 or email info@obo-bettermann.com.sg.



The Peggy Guggenheim Collection in Venice has been extended and updated yet again

Restoration work on the new building that now houses the coffee shop of this historical museum.



The newly formed Dorsoduro Museum Mile in Venice, a cultural walk which winds its way through the narrow streets of the Dorsoduro district as if to form both a physical and ideal bond between prestigious and variegated cultural centres in Venice – the Cini Foundation, the Peggy Guggenheim Foundation and the Punta della Dogana – was recently enhanced with the addition of new spaces.

Indeed, it was the Peggy Guggenheim Collection that recently completed renovation work on a portion of garden and a small building they had bought next to its current headquarters in 2015. The leading roles in this project were played by the best product systems and a team of highly qualified technicians from Mapei who, is part of Intrapresae Collezione Guggenheim, an association that unites the excellence of Italian business in support of the Peggy Guggenheim Collection and of which Mapei has been an active member for a number of years.

With this restoration work, the areas available for temporary exhibitions, the teaching wing, the coffee shop and the sculpture garden have all been extended.

The beautiful design, created by the architect Giacomo Di Thiene from Studio Th&Ma Architettura in Venice, has helped the exhibition and research areas to become more flexible, with an increase in the space available for these activities which will also allow the centre's didactical activities to grow and develop even further.

Indeed, it is worth remembering that the Peggy Guggenheim Collection has always stood out for the value and importance it gives to teaching activities, which help make the museum more alive and lived. Their commitment can be seen at various levels, from the lectures held by numerous professionals who work for the Guggenheim Collection to the Master in Business Administration for Arts and Cultural Events courses at the European Design Institute (IED) in Venice and the Master in Arts Management courses at the European Design Institutes in Rome and Florence, up to the lessons created for primary school and secondary school pupils.



The MAPE-ANTIQUE De-Humidifying Cycle

To repair the renders on the building that had been damaged by rising damp and the chemical aggression of soluble salts, cement-free lime and Eco Pozzolan-based products from the MAPE-ANTIQUE line were used, which are specifically recommended for consolidating, repairing and renovating masonry walls in buildings, including those of historical and artistic interest.

After removing all the damaged renders and giving the masonry walls a thorough clean, the metallic features on the facade were fastened to the underlying masonry walls with MAPEFIX VE SF styrene-free, hybrid vinyl resin-based chemical anchor.

After saturating the substrate with water, a 5 mm thick layer of MAPE-ANTIQUE RINZAFFO salt-resistant, transpirant lime and Eco-Pozzolan scratch-coat mortar was applied to completely cover the area to be rendered to improve adhesion of the render and even out the absorption of substrates.

Once the scratch-coat layer had started to set, a 20 metres thick layer of MAPE-ANTIQUE MC MACCHINA macro-porous, salt-resistant dehumidifying, lime and Eco-Pozzolan based render was applied over the surfaces.

All the features protruding from the facade, as well as all those in direct contact with the new render (parapets, cornices, junction boxes, electricity metres, etc.), were sealed with MAPEFLEX MS45 paintable hybrid sealant and adhesive.

To finish off the facade, potassium silicate-based products from the SILEXCOLOR line were used in order to form a perfect bond with the lime-based render underneath and to complete a layer with good permeability to water vapour.

Once the render was perfectly cured, it was coated with SILEXCOLOR BASE COAT transpirant, coloured silicate undercoat with a smooth finish and good filling properties. After 24 hours, a thin layer of SILEXCOLOR TONACHINO highly transpirant, thick-layered silicate coating was applied.

The product chosen to consolidate the exposed brick walls was MAPEWALL MURATURA FINE high strength, transpirant, natural hydraulic lime-based masonry mortar with low emission level of VOC (Volatile Organic Compounds).



Masonry walls featured damaged and uneven renders.



The garden next to the new coffee house, after completion of the works.



Above & bottom photos: In the shop, porcelain tiles were installed with KERAFLEX MAXI S1 high performance deformable cementitious adhesive with no vertical slip.

KERAFLEX MAXI S1 to bond ceramics

The porcelain floor tiles in the shop, coffee shop and internal and external service areas were bonded with KERAFLEX MAXI S1, a high-performance deformable cementitious adhesive with no vertical slip, extended open time and Low Dust technology for ceramic tiles, particularly recommended for installing large porcelain tiles and natural stone slabs.

The work was carried out to perfection and will allow numerous visitors to be welcomed in a place that has been completely renovated, where you can allow yourself a pause of excellence in surroundings that are unique in the world.

And so the bond between Mapei and the Guggenheim museums has been strengthened. A trans-oceanic relationship which, in 2008, also saw Mapei products used for repair and renovation work on the Solomon R. Guggenheim Museum in New York, a building designed by Frank Lloyd Wright that had been damaged by atmospheric agents and the rigours of time.

Article source: *Realtà Mapei International* 60/2016



For more information, email mapei@mapei.com.sg.

Mapei Products

Restoring masonry and renders: Mapefix VE SF, Mape-Antique MC Macchina, Mapeflex MS 45, Mapewall Muratura Fine

Applying wall coatings: Silexcolor Base Coat, Silexcolor Tonachino

Installing ceramic tiles: Keraflex Maxi S1



Mape-Antique MC Macchina

PROJECT DATA

Project: Peggy Guggenheim Collection

Location: Venice, Italy

Period of the Intervention: 2015–2016

Intervention by Mapei: supplying products for restoring masonry and renders, as well as products for installing ceramic tiles

Client: Solomon R. Guggenheim Foundation – Peggy Guggenheim Collection

Design and Works Direction: Th&Ma Architettura, Giacomo Di Thiene

Contractor: Minto Francesco Srl

Mapei Co-ordinators: Claudio Azzena, Michele Orlando, Mauro Orlando, Davide Bandera, and Cristian Bordignon, Mapei SpA (Italy)



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Singapore

Asia's leading and award winning IoT event returns in March 2017

As the first dedicated platform in Asia to address the enormous potential of the IoT revolution, the first edition of IoT Asia in 2014 was ahead of its competition. It was seen as a transformational platform for addressing challenges and identifying real opportunities within the IoT landscape.

IoT Asia 2016 surpassed expectations and broke records. The event was a resounding success with 3,795 attendees, a significant increase of 75 percent from 2015! This is a testimony of the strong support the event has received from the industry. IoT Asia has won the prestigious UFI Marketing Award in 2016. Conferred by UFI, the Global Association of the Exhibition Industry, the Award recognises excellence in the branding of new trade shows. The UFI Marketing Award adds on to a growing list of industry accolades that IoT Asia has received since its debut in 2014. They are "People's Choice Silver Award for Event of the Year in Postscapes 2015/2016 IoT Awards" and "Trade Conference Organiser of the Year" for IoT Asia 2014 at Singapore Experience Awards 2015.

IoT Asia 2017 continues to provide insights for 4,500 attendees across the entire IoT value chain, addressing the interests of technology solution providers and enablers as well as end-user and potential IoT technology adopters across multiple industries. The show will take place on 29 and 30 March 2017 at the Singapore Expo.

As a key player in Asia's IoT community, IoT Asia 2017 will focus on

- Smart Cities
- IoT Data Analytics
- Design Applications
- Wearables
- Enablers
- Industrial IoT
- Cybersecurity (NEW)
- Robotics (NEW)

What to expect at IoT Asia 2017?

- 5,000 square metres exhibition
- 4,500 attendees
- 110 sponsors and exhibitors
- Brand new conference programme featuring three new tracks, engaging panel discussions and country-focus sessions

Exhibition Highlights

Two new thematic zones will be introduced at IoT Asia 2017 – Cybersecurity and Robotics. This is where technology companies leading innovation in cybersecurity and robotics will be showcased.

Visitors to IoT Asia 2017 can look forward to meet exhibitors from two key feature zones – Institution Zone and Start-Up Exchange. Launched at IoT Asia 2016, the Institution Zone is back by popular demand! Visitors get to engage with professionals or students in Academia who will showcase their IoT-related solutions and projects. The Start-Up Exchange is a dedicated area for aspiring start-ups to showcase new lab-to-market IoT solutions and technologies. The Start-Up Exchange will feature start-ups from all over Asia disrupting the IoT market.



Photo: © SingEx Exhibitions Pte Ltd

Conference Highlights

Underlining the 2017 theme *Making Sense in Our Connected World*, the conference will focus on IoT's value generation potential and opportunities from the perspective of:

Technologies

View highlights of new and innovative IoT and related technologies, systems, enablers.

Solutions

Hear illustrative case studies and contextual use cases of how IoT is showing returns and results in various industry segments and aspects of life.

Organisations

Learn how organisations are approaching change and business disruptions as IoT takes hold, how IoT changes the face of competition and partnerships, and implications for eco-system building and development.

With the event anchored in Singapore, IoT Asia continues to chart the future for IoT in Asia by accurately anticipating the needs and concerns of the rapidly evolving industry.

Southeast Asia Building readers enjoy extra 10% All-Access and Single Track conference rates (except Academic). Use code IOT17MED10. For more information, visit www.internetofthingsasia.com.



Photo: © SingEx Exhibitions Pte Ltd



Photo: © SingEx Exhibitions Pte Ltd

DOOR, CABINET KNOBS & PULL HANDLES | HENRY BLAKE

Henry Blake Hardware has launched 'The Flute', the new classic, inspiration taken from the past and then reformed and re-envisioned to give a fresh contemporary yet classical feel to a collection featuring door, cabinet knobs and pull handles in a wide range of finishes. For more information, visit www.henryblakehardware.co.uk.



The Flute collection. Photos: © Henry Blake Hardware

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SILRES® BS SILICONES | WACKER

SILRES® BS Silicones for sustainable and durable concrete protection

Manufactured concrete products are popular in today's construction industry for many reasons – however, they have one big disadvantage: Concrete is vulnerable to water and moisture penetration. The solution to provide high-quality building protection is to use impregnating agents such as WACKER's SILRES® BS silicone resin emulsions. They guarantee exceptionally high resistance against weathering and water, and because of their exceptional durability, they are by far the most economical solution for long-term protection of concrete structures.

Water is a vital resource, but can also be a construction material's enemy: Rain, groundwater and surface water can cause rapid and extensive damage, especially in maritime and humid regions. Therefore, waterproofing techniques are a decisive factor in successful modern construction against water uptake and resulting damages like efflorescence. Especially outdoor concrete applications, such as paving stones or concrete blocks, should be protected by waterproofing admixtures.



SILRES® BS hydrophobic impregnation agents permanently protect concrete against moisture from rain, dew or snow.

Reliable protection against ingress of water

A very efficient waterproofing technique is the use of silicone emulsions for hydrophobic treatment, as they provide good and long-lasting protection against water and humidity. But why do silicones protect concrete structures so effectively? The secret lies in the special structure: Silicone resin emulsions form

an extremely stable and highly durable three-dimensional silicone resin network on mineral surfaces and within mineral-based admixtures. The network repels water and moisture, but is permeable to water vapor inside the wall. This effect keeps the building structure dry and prevents wall damage and decay caused by moisture, such as rain, dew or snow, but also against road salts and microorganisms. In addition, WACKER's hydrophobic concrete admixtures help regulate concrete's water balance, which increases the lifespan of construction materials without unscheduled repair work due to structural damage.

High-quality concrete admixtures

The silicone emulsion SILRES® BS 1803, for instance, is a solvent-free emulsion based on organo-modified silanes and siloxanes. When used as an admixture in semi-dry concrete, the product produces a matrix that resists water absorption and creates a strong beading effect without blocking pores or capillaries. As a result, the treated concrete inherently resists intrusion of damaging water and chemicals, thus increasing the service life of the building material. SILRES® BS 1803 exhibits excellent water repellency, reducing cracking, water absorption, efflorescence and dirt pick-up. When used as admixture, even 0.2 percent already achieve a significant reduction in water uptake. That's why the product is found to be an ideal admixture for non-load bearing cement-based building materials such as concrete blocks or paving stones.

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

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CERAMIC TILES | NIRO CERAMIC GROUP

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 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.

Exported to over 130 countries worldwide, Niro Ceramic Group has succeeded in preserving the Swiss heritage of always delivering high quality products and services to our customers despite having many new product lines and numerous geographical expansions. Having a diverse network across the globe enabled Niro Ceramic Group to be the leading supplier that is backed with large stock keeping, ensuring prompt delivery with great credibility and customer satisfaction guaranteed.

Moving forward, the company's staff is enthusiastic with great possibilities ahead. As clearly stated in its corporate mission statement, the company strives to bring the best trendy collection of high quality porcelain tiles, efficient customer services and most important of all, the value-added strategies to its partnerships all around the world.

For more information, visit www.nirogranite.com.



Photo: © Niro Ceramic Group



Photo: © Niro Ceramic Group

SOLID WOOD PRODUCTS AND INNOVATIVE BUILDING SOLUTIONS

BINDERHOLZ

Building projects evolve with binderholz solid timber products and construction solutions, which all standard requirements in terms of structural physics and fire protection. Solid wood buildings retain their value, are stable and meet the most stringent demands on quality, cost-effectiveness and ecological sustainability. As a binderholz customer, you can benefit from the company's comprehensive advice and sound service. The experts in binderholz's hardworking technical department offer qualified engineers, structural engineers and technical draughtsmen who can provide competent support in all aspects of structural engineering and construction, building physics and fire protection.

Slim, lightweight designs with a high degree of prefabrication

binderholz construction solutions allow for a high degree of prefabrication. It shortens building times considerably while always maintaining high quality. In addition, solid timber constructions have an attractive ratio in terms of gross and net living space compared to conventional methods. Especially in the urban space, this has become increasingly important when considering the building costs.

Intelligent combinations of solid timber and conventional building materials such as concrete, steel and glass can result in cost-efficient hybrid solutions, which combine the advantages of traditional materials with the merits of solid timber construction. The comparatively low weight of solid wood is a great advantage, for example to do roof conversions, this strength is literally brought to bear. Solid timber wins the argument here on account of its structural possibilities and the fact that the load on the building, owing to the low weight, is not substantially increased.



binderholz CLT BBS. Photo: © binderholz

Eco-bonus wood

When it comes to aspects of environmental protection, wood as a natural raw material has numerous advantages over conventional building materials.

Wood:

- has a soothing effect and increases well-being
- is constantly regrowing in sufficient amounts
- is a natural carbon sink; it binds CO₂ and is thus actively contributing to climate protection
- is a natural energy storage
- can be 100 percent ecologically recycled

binderholz CLT BBS

CLT BBS has a multilayer construction, completely made of solid wood. By bonding the longitudinal and transverse layers together, any warping of the wood – swelling or shrinkage – is reduced to a negligible level. This means it can comfortably meet the requirements of a modern building material.

BBS is monolithic, that is to say that it is in effect a single piece of wood, with just 0.6 percent being environmentally friendly glue. The solid finished component is able to carry high loads, is fireproof, enables rapid construction without water, and has sound and heat insulating properties. It regulates the humidity of the air inside the building, creating a comfortable and balanced climate – in both summer and winter.



Case study: Nanyang Technological University (NTU), Singapore

The binderholz Group had delivered solid wood products to the Nanyang Technological University (NTU) in Singapore. According to the company, it is the Asia's largest glulam arch spanning 72.0 metres and CLT project.

For more information, visit www.binderholz.com.

Left: binderholz supplied solid wood products to NTU, Singapore.
Photo: © binderholz

WATER FOUNTAIN BOWL | PENTAIR WATER QUALITY SYSTEMS

Pentair provides you with a wide range of equipment specifically designed for residential and commercial swimming pools, spas, aquatic parks, aquariums, fountains, water features and more. As a leading company in the industry, Pentair products are backed by one of the largest research and development teams in the industry and every year they surprise the market introducing cutting edge products.

Pentair has introduced the 'MagicBowl™', the only water fountain bowl with elegant, lighted fire effects.

Sculpted from a durable, UV resistant material, the MagicBowl Water Effects with FireFX LED Lights is a beautiful addition to any backyard. With its dramatic sights and soothing sounds, the MagicBowl is a dazzling accent piece during the day and a flowing bowl of fire at night.

Homeowners can take their backyard oasis to the next level by adding a MagicBowl Water Effects with FireFX LED Lights to any new or existing pool or spa.

With a variety of bowl shapes and metallic composite finishes, MagicBowl Water Effects with FireFX LED Lights gives customers the design flexibility they need to accent any poolscape with style.



Photo: © Pentair

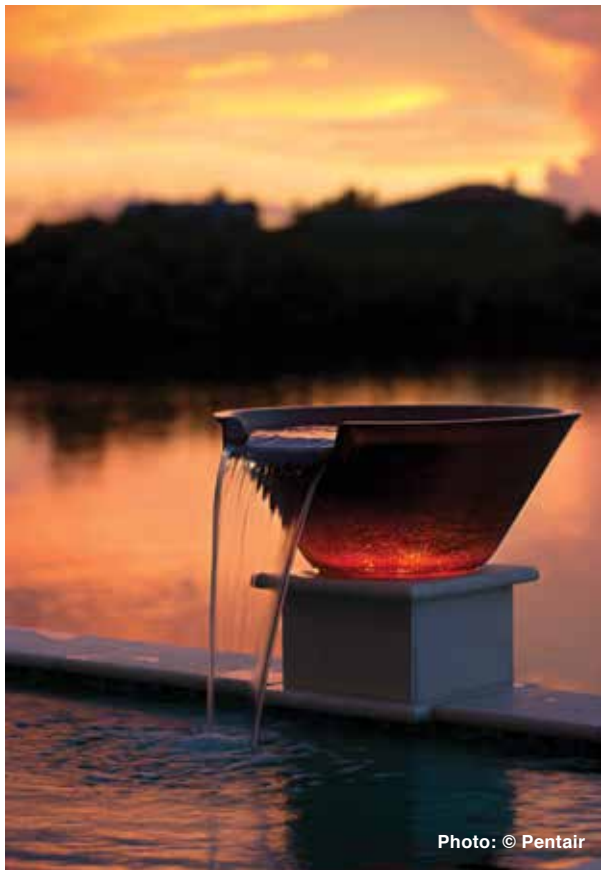


Photo: © Pentair

MagicBowl Water Effects with FireFX LED Lights features include:

- Safe and efficient LED lights change and flicker with no dangerous flames or fuel
- Low voltage LED lights and low flow requirements make it affordable to own and operate
- Designer choices give you creative options to suit your style
- Stand alone or automation-compatible for complete freedom of operation
- Spectacular light and water shows create nighttime drama

For more information, contact Pentair Water Quality Systems at tel (+65) 6768 5900, e-mail gaia.d'incecco@pentair.com or visit www.pentairpoolasia.com.



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Eco Nature collection.
Photos:
© Eco Wallpaper

Eco Nature is a feathery light, naturally playful Scandinavian collection produced through painstaking craftsmanship.

"Nature is always very present in my design process, and I often take strength and inspiration from forests and the countryside. When working on this collection, I got even closer to nature, working with small details that have come to play a large role in the patterns," said Noomi Spange, Designer at Eco Wallpaper.

Nature's small wonders have a clear place in the collection. Expansive misty mountains, slender elm leaves, light features and marbled walls: Eco Nature brings Scandinavian nature combined with new, exciting and urban elements to the forefront.

"The designs will fit in well in tranquil, rural homes, but will also work as contrast in modern urban apartments," concluded Spange. Eco Nature consists of 14 patterns in several different colour schemes; a total of 36 items to be launched at the start of January 2017.

For more information, visit www.eco.se.

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