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September / October 2018

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SOUTHEAST ASIA BUILDING

GREEN
ISSUE

Marina One Singapore

ARCHITECTURE + INTERIOR • Sustainable Buildings

SPECIAL FEATURE • Pool and Wellness Equipment & Maintenance

ARCHITECT'S CORNER • Interviews with 2018 President's Design Award recipients:

LOOK Architects and Angelene Chan, CEO of DP Architects in Singapore

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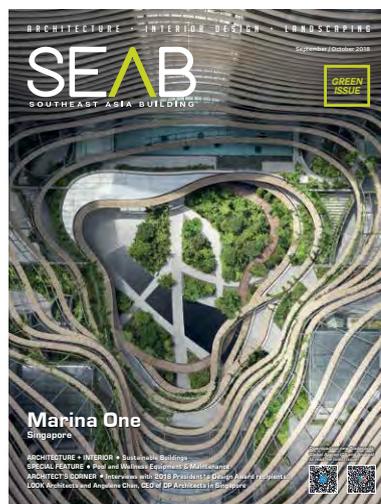
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On the Cover: Marina One in Singapore. Photo: © ingenhoven architects / HGESch

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Hello readers and welcome to our annual green issue. The September/October 2018 issue is dedicated to green and eco-friendly projects in the Asia Pacific region as well as some deep insights from industry experts on a sustainable future.

Sustainability is no longer a word but a way of life for many of us. On a larger scale, governments and green building councils are taking the initiative to ensure that buildings are designed in the most sustainable way to benefit the society. In this issue, you will get to read how projects of different use have included green features in their architecture in the most innovative way.

Enjoy reading this issue as much as we enjoyed putting it together. If you have any comments or feedback, please send us an email at seab@tradelinkmedia.com.sg.

Amita Natverlal

NEXT ISSUE THEMES

- Architecture + Interior – Religious Buildings
- Special Feature – Roofing System
- Architect's Corner – Interview

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Dubai launches a new retail metropolis called Dubai Square

Dubai, UAE – The future of retail is here: Dubai Holding and Emaar Properties have announced the launch of Dubai Square, a new retail metropolis that pushes the boundaries of modern retail and leisure in Dubai Creek Harbour by drawing on next-generation technology.

Blurring the boundaries of online and in-mall shopping, integrating indoor and outdoor, and delivering a social experience like none other, the all-new Dubai Square is designed for the new era of customers, digital, connected and tech-savvy, and setting a benchmark for retail experiences in the 21st century.

Dubai Square was revealed today at an exclusive retailers event that offered a fully-immersive experience for the participants. Through state-of-the-art 3D projection technologies, they were given an overview of the world of opportunities that await them in partnering with the bold and ambitious development that will transform the retail landscape.

Dubai Square is set in the heart of Dubai Creek Harbour, the 6 square kilometre mega-development only 10 minutes from the Dubai International Airport and the iconic Burj Khalifa by Emaar, as well as set by the historic Dubai Creek. Adjacent to Dubai Creek Tower, the astonishing new icon, Dubai Square – in its totality – represents a 2.6-million square metre (about 30 million square feet) retail, hospitality and residential district for the future.

Following in the footsteps of Dubai's postmodern evolution, Dubai Square will also feature an eclectic mixture of styles and



Aerial view of Dubai Square at Dubai Creek Harbour. Photo: © Emaar Properties

references. The inspiration comes from leading cities across the world, with the fashion selection at the retail outlets drawn from London's Oxford Street, Los Angeles's Beverly Hills, Paris's Champs-Élysées, Tokyo's Ginza, Piazza della Republica in Florence and Madrid's Plaza Mayor, to name a few.

Dubai Square will be linked directly to the Dubai Creek Tower through a cutting-edge underground extension. Here, they can revel at a plaza at the base of the Tower. The Plaza is a clock-shaped haven of landscaping, palm trees and water features sprawling across half a kilometre of land – the length of ten Olympic sized swimming pools.

Equivalent to the size of more than 100 football pitches – with over 750,000 square metres (8.07 million square feet) of gross floor retail space – Dubai Square pushes the boundaries of design and mall layout. Dubai Square has nearly more than twice the gross leasable area of The Dubai Mall.

Lendlease continues health & safety excellence

Singapore – Lendlease continues to be recognised for its exemplary health & safety efforts at the Workplace Safety & Health Council's Workplace Safety & Health (WSH) Awards 2018. For the third consecutive year, Lendlease's Retail business is being awarded the WSH Performance (Silver) award. Two construction projects undertaken by Lendlease are also receiving the Safety and Health Award Recognition for

Projects (SHARP).

Lendlease's Retail business manages the malls 313@somerset, Jem and Parkway Parade. While not a sector traditionally associated with workplace safety, Lendlease-managed malls have gone the distance to implement initiatives to keep shoppers safe. For example, the malls' operations teams regularly engage tenants to raise awareness on fire safety, as well as work

with WSHC to bring retailers onboard the bizSAFE journey.

The two SHARP awards are in recognition of Lendlease's delivery of two projects for biotech giant Amgen – construction of its Next-Gen Workplace building and expansion of an existing manufacturing facility. Lendlease provided engineering, and project and construction management services on the projects.

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Bona inspires with new concepts in floor trends

The renowned Swedish company Bona is setting the trend in floor styling with "Bona Inspiration", a unique concept in designing fashionable floor styles. In collaboration with the internationally recognized trend analyst Cay Bond, their sight is now set on the floor as a crucial design detail.

Singapore – Interior design and home decoration has long been influenced and inspired by trends, but floor renovation has been lagging one step behind. Bona wants to change that, and in collaboration with Cay Bond who has more than 30 years' experience of trends within fashion, design and interiors, Bona has created an entirely new concept – to inspire and create on-trend styles and flooring effects.

Bona has been at the forefront of floor renovations and maintenance for a long time. This solid knowledge is now enhanced with inspiration and guidance in flooring trends to create the right ambience in the home.

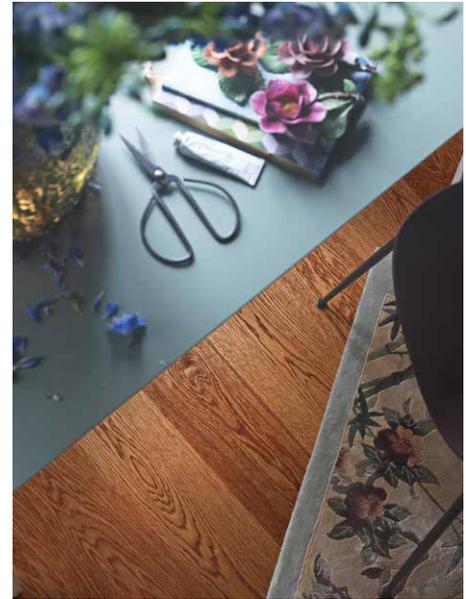
"We have developed a concept which can create the right style and effect on a wooden floor using our products and techniques. With the right treatment, you can preserve the soul of the floor while producing a whole new look without installing a new floor. With Bona's extensive product range, you can make magic from an existing floor in only a few hours," said Patrik Mellnert, Product Manager at Bona.

The Bona Inspiration concept includes an inspiration palette encompassing a



New Modern. Photo: © Bona

range of interior design styles in which the wooden floors play an important role, and Bona's sanding and brushing methods, varnishes, oils and paints can bring new life to a wooden floor. The future



Garden Atmosphere. Photo: © Bona

trends presented by Bona in their unique concept includes everything from dark, rustic floors to floors with a pale, lacquered finish. To restyle old wooden floors is not only sustainable, it is also beautiful and a trend of the future.

The concept will be launched in Europe, USA and Asia in 2018.



Nordic Shimmer. Photo: © Bona



Malibu Dreams. Photo: © Bona



Touch of Grace. Photo: © Bona

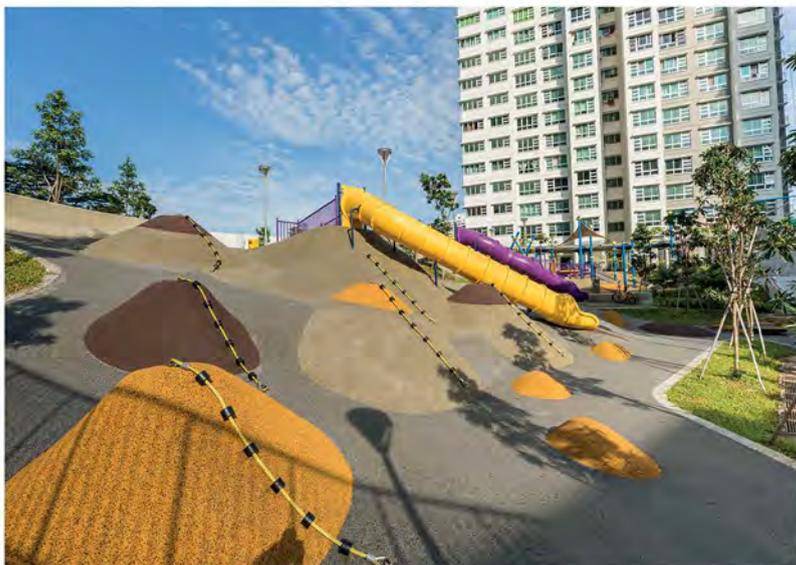
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AccorHotels completes acquisition of Mantra Group

Singapore – AccorHotels has completed its acquisition of Mantra Group for \$1.2 billion. The deal includes the Mantra, Peppers, BreakFree and Art Series brands, representing 138 hotels in Australia, New Zealand, Hawaii and Bali.

Michael Issenberg, Chairman and CEO of AccorHotels Asia Pacific said, "The Mantra Group is the latest chapter in the strong growth story of AccorHotels in the region. Since our launch with the Novotel Sydney on Darling Harbour in 1991, AccorHotels has become the largest hotel group in the Pacific, and Australia has always played a key role in that story.

At the close of the deal, AccorHotels will operate over 330 hotels and resorts across Australia and over 900 throughout Asia Pacific. AccorHotels will also be the largest employer on the Gold Coast, outside of government.

Simon McGrath, COO of AccorHotels Pacific said, "The Mantra Group brands will enhance AccorHotels' portfolio and create new opportunities for our people, partners and guests. We believe that tourism is critical to the economic growth of the region and future job creation and this deal will allow us to further develop the industry."

Bob East, CEO of Mantra Group said, "I am immensely proud of the great company we've built and what we've achieved as



Simon McGrath COO AccorHotels Pacific (left) and Michael Issenberg, Chairman and CEO AccorHotels Asia Pacific. Photo: © AccorHotels

an Australian-based business. It's been an enjoyable journey for me leading the team since 2007 through to our float on the ASX in 2014 and now closing this deal with AccorHotels. I have enormous belief in the business and the team here is looking forward to working with Simon and AccorHotels to continue this success."

Keppel Urban Solutions and ST Engineering ink partnership to implement smart city masterplans

Singapore – Keppel Urban Solutions Pte. Ltd, a wholly-owned subsidiary of Keppel Corporation Limited, and Singapore Technologies Engineering Ltd (ST Engineering), signed a Memorandum of Understanding (MOU) that will leverage each other's expertise and resources in the design and implementation



Saigon Sports City – a 64-hectare development, envisaged to be Vietnam's first one-stop sports, entertainment and lifestyle hub, focused on sustainability, connectivity and community – is one of the projects that Keppel Urban Solutions and ST Engineering will embark on. Photo: © Keppel

of smart city masterplans and solutions in Keppel's developments as well as to collaborate on third-party projects in Asia Pacific.

The partnership will tap on the expertise of Keppel Urban Solutions as an end-to-end integrated master developer bringing together the Keppel Group's diverse capabilities in sustainable urbanisation. Keppel has developed a strong record in developing large-scale urban developments across Asia, notably, the landmark bilateral project, Sino-Singapore Tianjin Eco-City in China and Palm City in Ho Chi Minh City, Vietnam. ST Engineering has completed over 500 projects in more than 70 cities, including contributing smart technologies to the Smart Nation drive of Singapore, which was ranked the top global smart city in 2017.

The partnership targets cities and developments looking for end-to-end services that weave in Smart City technologies seamlessly. The custom built-to-design Smart City technologies work to improve user experience, liveability, sustainability and resource-efficiency in tandem with the site's population, land use, community facilities, physical characteristics as well as social and economic conditions.

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Two Aedas projects win International Design Awards

Hong Kong – Aedas projects Shanghai Landmark Center in Shanghai, China, won a Bronze Award and Unilever Headquarters in Jakarta, Indonesia, received a Honourable Mention at the 11th International Design Awards, Architecture – New Commercial Building category.

Shanghai Landmark Center, designed by Executive Director Cary Lau, enjoys a prime location with excellent views towards the northern Bund and Huangpu River. In response to the vibrant neighbourhood and low-rise domestic buildings on the east and north, this commercial development retreats from south to north with two towers sitting in the south of the site and the retail components in the north, embracing an open central plaza for food and beverage and various outdoor activities. Inspired by the traditional Chinese windows from the nearby old buildings, the façade design interprets the oriental element in a contemporary language and creates an impressive motif. The contemporary architecture with a sense of humble, oriental touch and overtone serves as a large visual that accentuates the city's unique history and identity, creating a landmark enjoying the signature Shanghai skyline along the Suzhou Creek.

Unilever Headquarters, designed by Executive Director Steven Thor (architecture) and Executive Principal Steven Shaw (interior), supports the spirit of community, collaboration, engagement and agility with a design that references to the traditional village planning in Indonesia. It has a 'square', 'main roads', and 'streets' to create a sense of community. The planning is focused on engaging group and individual work into zones to induce collaboration while maintaining privacy. The top four floors are office spaces with break-out areas; while the ground floor is dedicated to public and shared facilities. Surrounding the central, light-filled atrium that serves as a large event space are common facilities including a mosque, staff dining area, day care centre, fitness centre, beauty salon and multi-purpose hall.



Shanghai Landmark Center in Shanghai, China. Photo: © Aedas



Unilever Headquarters in Jakarta, Indonesia. Photo: © Aedas

Grundfos appoints new Regional Business Director for building services in Asia Pacific

Singapore – Grundfos has announced the appointment of Anders Christiansen to the role of Regional Business Director, Building Services for Grundfos Asia Pacific region with effect from July 1st, 2018.

In his new role, Anders will lead the business operations and growth of the Grundfos Building Services portfolio in the region, which supplies pumps for use in and around the home and commercial buildings.

Anders brings with him over 20 years of professional experience in business development from different positions and companies. Prior to his appointment, Anders was the Business Development Director at Grundfos in Denmark, where he was responsible for its Domestic Cold Water Solutions. He has been working with Grundfos for more than eight years, having joined the firm in 2010 as a Business Development Manager for Domestic Building Services.

Prior to joining Grundfos, he held multiple positions in Brødrene Hartmann, including Business Unit Manager in Malaysia and Business Director in Denmark.

Anders holds a Master's Degree in International Marketing from the University of Southern Denmark and a Diploma in Advanced Business Development.



Anders Christiansen.
Photo: © Grundfos



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Park Hotel Group unveils “first look” of new Grand Park City Hall

Singapore – Park Hotel Group, one of Asia's leading hospitality companies, has revealed the first look of its flagship hotel Grand Park City Hall. Located on Coleman Street in the heart of Singapore's Civic District, the luxury hotel is in the final phase of its transformative masterplan, which is scheduled to complete by the third quarter of 2018.

The 343-room Grand Park City Hall hotel including its modern European Tablescape Restaurant & Bar are a part of Park Hotel Group's upcoming mixed-use lifestyle precinct comprising City Hall Square, a new dining, shopping and entertainment destination that is set on the conservation site of St. Gregory Place.

When completed, guests to Grand Park City Hall will expect to enjoy greater convenience, control and personalised service all within the reach of the mobile phones in the palm of their hands. Guests can also look forward to enriching experiences within the contemporary interiors, which are decorated with art and design inspired by Singapore's history. The hotel interior is conceptualised by Hirsch Bedner Associates.

“Grand Park City Hall, our new jewel in the crown, is a spectacular juxtaposition of modern technology and heritage-influenced art and design. The hotel is testament to our commitment to deliver exceptional hospitality and travel experiences for our guests



Photo: © Grand Park City Hall

by empowering them with digital innovation and giving them a sense of place through our inspiring interiors,” said Allen Law, Chief Executive Officer, Park Hotel Group.

Nakheel awards AED66 million contract for dancing fountain at The Pointe at Palm Jumeirah

Dubai, UAE – Nakheel has signed a contract worth AED66 million for a spectacular, choreographed fountain at The Pointe, its new, AED800 million waterfront dining and entertainment destination on Dubai's world-famous Palm Jumeirah.

The developer has appointed one of China's largest fountain specialists, Beijing Water Design, to deliver and operate the fountain, which will cover a 12,000 square metre area of water



The Pointe at Palm Jumeirah. Photo: © Nakheel

at the tip of the island, across the bay from Atlantis The Palm.

Speaking at the signing ceremony at Nakheel's Dubai headquarters today, Nakheel Chairman, Ali Rashid Lootah, said: “Palm Jumeirah, our flagship project, is already one of the most popular, sought-after destinations for Dubai's residents and tourists. The Pointe, our latest addition to this ever-evolving island, is an iconic, must-see attraction that adds a new dimension to the city's dining, retail and entertainment scene.

Operated by Nakheel Malls, the retail arm of Nakheel, The Pointe features nearly 70 restaurants, shops and attractions, with F&B making up some 70 percent of the concepts on offer. There is also a cinema, children's play area, supermarket, gyms and beauty salons.

Located five kilometres out to sea, The Pointe enjoys cool sea breezes and stunning views. Its 1.5 kilometres promenade is a destination in itself for residents and tourists to unwind at one of Dubai's most iconic locations, or snap the perfect holiday pictures against a stunning backdrop.

The Pointe has a car park for 1,600 vehicles, and will have its own Palm Monorail station. There are also plans for boat access from Palm Jumeirah's hotels and resorts.



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Saudi German Hospital to set up 100-bed hospital in Al Marjan Island

Dubai, UAE – Saudi German Hospital has signed an agreement with Al Marjan Island in Ras Al Khaimah to establish a 100-bed specialty hospital that will offer a diverse portfolio of healthcare services including medical, rehabilitation and cosmetic services.

The hospital will serve the residents and visitors to Al Marjan Island as well as the wider Ras Al Khaimah community by offering specialised services in a modern hospital led by expert healthcare professionals. Establishing the hospital is in line with the Saudi German Hospital Group's mission to fulfil the healthcare needs of the public and to expand its presence across the UAE, and to support the country's medical tourism sector.

"As one of the most important tourist destinations in Ras Al Khaimah and the UAE, Al Marjan Island is a remarkable urban development," said Eng Sobhi A Batterjee, President of Saudi German Hospital Group. "With the new hospital in Al Marjan Island, we aim to provide excellent and integrated healthcare services that will meet the needs of the people. It will serve the residents and visitors to Al Marjan Island and the wider community," he added.

The Saudi German Hospital in Al Marjan Island is scheduled to be operational in early-2019. Eng Batterjee added that initially the hospital will offer seven specialties and by 2020, it will provide specialist care in 13 disciplines as well as expand the number of beds. The medical and nursing team's strength will also be increased in line with the proposed expansion.



Reem Osman, CEO, Saudi German Hospitals Group and Abdullah Al Abdooli, CEO of Al Marjan Island signing the agreement.

Leigh & Orange-designed New DNA Shopping Mall officially opens

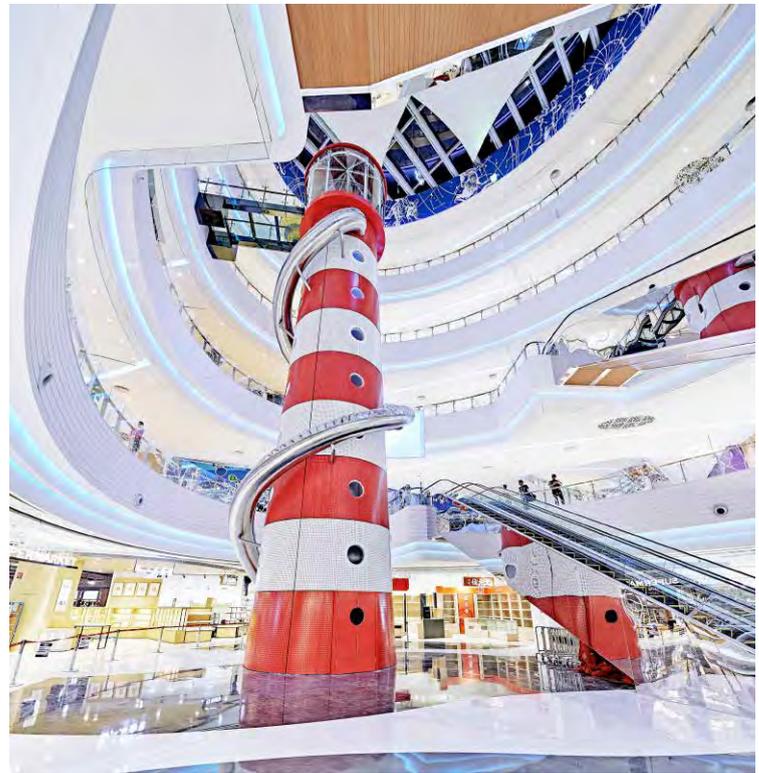


Photo: © Leigh & Orange

Hong Kong – New DNA Shopping Mall is Leigh & Orange's (L&O) latest retail project to open. Located in the heart of the Chancheng District of Foshan, the new six-storey retail development is set to become a new shopping destination in the city.

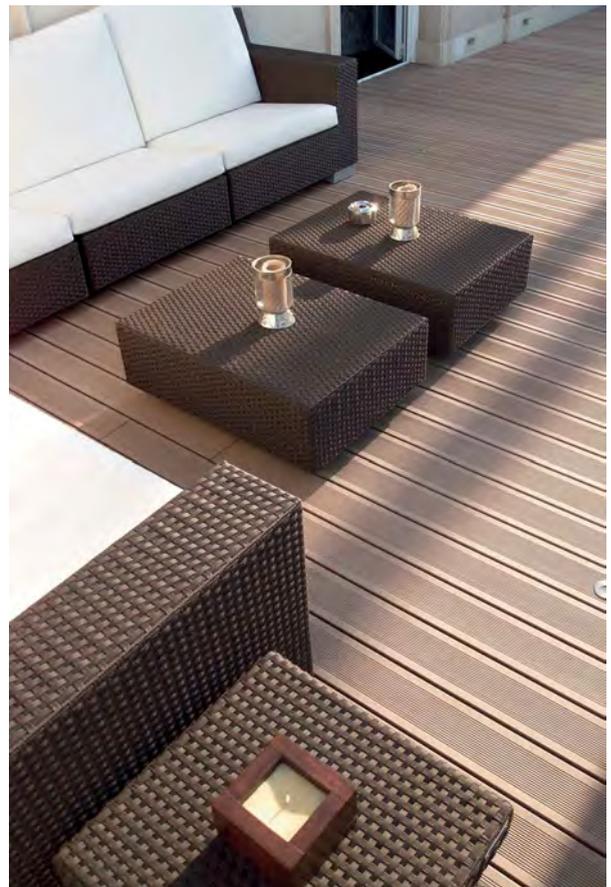
L&O was appointed by Sun Fook Kong Group to provide interior design, and theme design for this major retail complex, comprising F&B, entertainment and attractions in a prime location boasting over 159,000 square metres of real estate. With a fully integrated transportation system and connection to and from the local MTR and other public transportation, it will have all the means to serve its community.

Ricky Hung, L&O's Director of Interior Design said, "The unique selling point of this shopping mall is the marine-themed interiors where our designers were given free rein to explore their creativity and let their imagination go wild."

The design captured the essence of sea travelling through a number of key features such as the fun lighthouse which doubles up as a giant slide for children and adult alike. Another key attraction is the life-like full scale blue whale sculpture, suspended in mid-air as if it is swimming in the ocean. This uniqueness will help differentiate New DNA Shopping Mall from others and is set to provide a spectacular, must-visit attraction in the city – a scheme that not only engages with the community but will also boost Foshan's economic success.

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New Seletar Airport passenger terminal to be operational by end-2018

Singapore – Seletar Airport's new passenger terminal has received its Temporary Occupation Permit and preparations are on track for the terminal to begin operations by the end of this year.

The new terminal building has a floor area of 10,000 square metres – more than six times larger than the current terminal. Constructed and fitted out at a cost of about S\$80 million, it is designed to handle 700,000 passenger movements a year, in anticipation of the growth in passenger traffic in the coming years.

Managed by Changi Airport Group, the new passenger terminal features an enlarged departure and arrival area, which is designed to handle scheduled commercial flights. The departure area will have four check-in counters, six immigration lanes, two security screening stations and a spacious gate holdroom, which can comfortably accommodate about 200 passengers.

The check-in, immigration and security screening counters are positioned in an intuitive straight route through the departure hall, enabling a quick and stress-free boarding process for passengers. The terminal's interiors are designed to create a relaxed and comfortable feeling for passengers.

The new terminal will also have a section for passengers travelling on chartered business flights and private jets, with



Aerial view of the new Seletar Airport. Photo: © Changi Airport Group

its own waiting lounge area.

On the airside, passengers will be able to board their flights conveniently with three aircraft parking stands next to the terminal.

Mr Khoh Su Lim, Deputy General Manager of Seletar Airport, said: "The new passenger terminal enables Seletar Airport to handle the expected growth of aviation activities in future. We look forward to providing passengers with a fresh experience, in terms of comfort and convenience, when the new terminal starts operations around the end of the year."

Make completes high-rise luxury residential tower in Hong Kong

Hong Kong – The Luna at 18 Lun Fat Street in Wan Chai is the new residential tower from Make Architects for client Vanke Property (Hong Kong) Co. Ltd., which sets a new standard for high-quality serviced apartments in Hong Kong.

Located in the neighbourhood of a former printing works, the practice has used a printing block motif as the inspiration for the facade and interior design and gives the scheme a striking detail that sets it apart from the neighbouring towers.



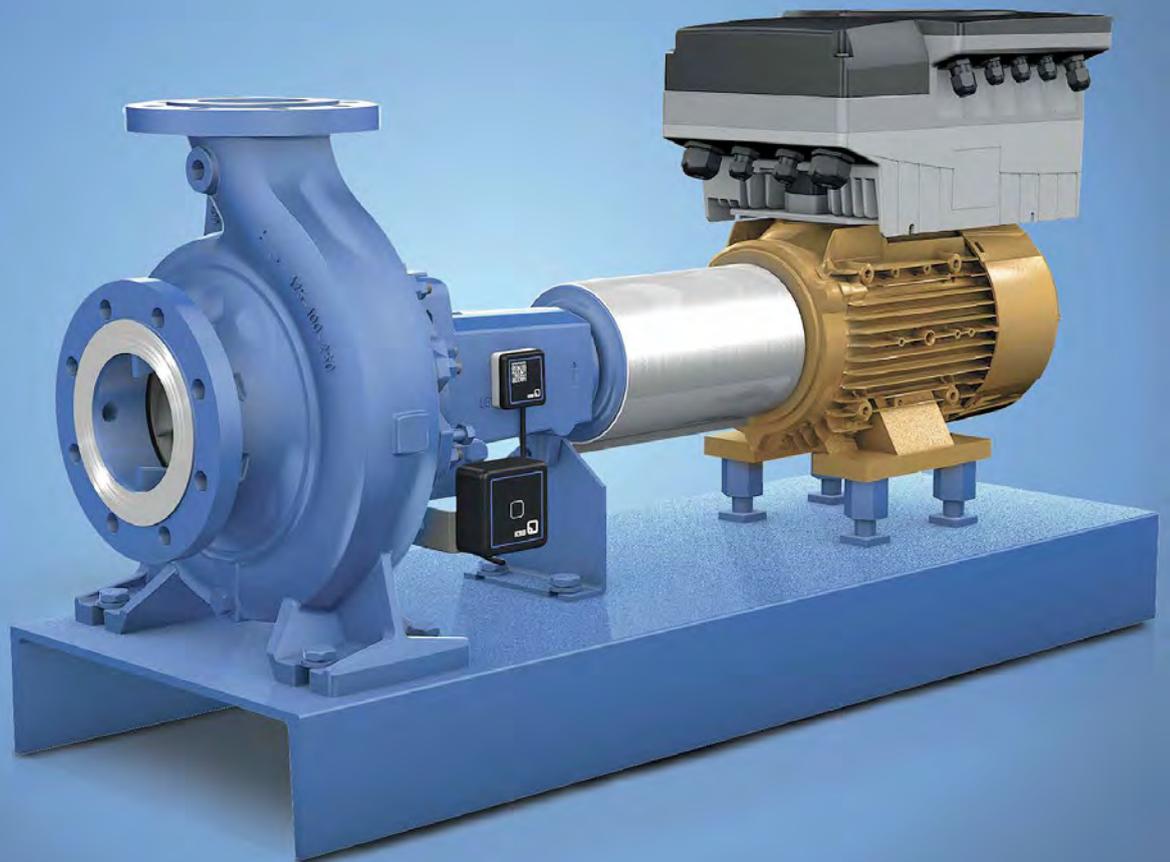
Photo: © Archmospheres

The slim 29* storey tower contains 105 high-end apartments, including one top-floor luxury penthouse and a residents' clubhouse. It sits above a dual height podium containing retails and restaurants. The practice was invited to compete for the interiors and façade design for an existing design, but quickly identified a number of ways to improve the efficiency of both the apartment layouts and the form of the tower itself. Make won the competition with an increased 'holistic' role to design the facade and interiors, as well as the architecture and landscaping.

There are three one bedroom apartments and two studio apartments on a typical floor, three slightly larger corner units divided in between by a smaller studio. This layout wraps three corners of the building with the core on the fourth corner. Designed from inside-out as well as the outside-in, the layout maximises cross ventilation and creates a generous sense of light in each apartment. Every typical apartment has a balcony to provide external space – some have two.

* The 4th, 14th and 24th floors of the building, which comprises 32 storeys in total, have been omitted as per usual practice for Hong Kong properties, due to negative connotations associated with the number '4' in local culture.

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Shaw Contract's new Bengaluru office achieves the LEED Gold Standard

Bengaluru, India – Shaw Contract, a fully-owned brand of Shaw Industries, has received the LEED v4 Gold for Interior Design and Construction certification for its newly opened 343 square metres showroom in Bengaluru, India, making it one of the first few projects in India to have achieved this international standard.

With this certification, Shaw Contract hopes to lead the design and build community in creating spaces which are better for the planet and better for people. Said Mr Rakesh Lakra, Regional Vice President, Shaw Floors India, "Our approach to creating a better future is thought through every step – from sourcing materials, our manufacturing process to our sales offices and recycling centres. LEED's rigorous standards made this achievement obligatory for Shaw Contract who has always chosen the environmentally smart approach."

The new Bengaluru showroom met high standards in sustainability by integrating more natural light through the effective use of glass panelling, minimising energy consumption and selecting furnishings that are environmentally friendly. The use of Shaw Contract's own carpet tiles, which are completely recyclable and Cradle to Cradle Certified™, further contributed to the credits and prerequisites set by LEED v4.

Designed as an open collaborative workspace with pockets



Natural light floods through the Shaw Contract's showroom and minimises electricity wastage. Photo: © Shaw Contract

of space conducive for people to connect with one another, the Bengaluru showroom was designed without walls. Different spaces were marked out by mixing and combining colourful carpet tiles selected from Shaw Contract's wide award-winning collections.

Roadmap paves way for carbon positive future

Sydney, Australia – Australia's built environment can lead the world in creating a carbon positive future and offers more opportunities and lower costs to help ease the transition required to reduce emissions across other more challenging economic sectors.

The Green Building Council of Australia (GBCA) has today released A Carbon Positive Roadmap for the built environment, a discussion paper which establishes the steps required for commercial, institutional and government buildings and fitouts to decarbonise.

The roadmap clearly outlines the high-level outcomes, actions, targets and policy positions required. These are proposed alongside changes to the GBCA's Green Star rating tool to ensure it helps lead industry through the next decade of transformation.

Developed in close consultation with industry and government, and now being released for their feedback, the discussion

paper plots a world-leading path to raise the benchmark for sustainable design, construction and building operation in Australia's built environment.

GBCA chief executive Romilly Madew said the roadmap has been developed to help ensure Australia's competitiveness and attractiveness for investment while fulfilling international commitments to reducing carbon emissions.

"This roadmap was developed as a response to GBCA's vision of healthy, resilient and positive places for people and the natural environment and is the result of extensive industry and government consultation and engagement," said Ms Madew.

"Our roadmap supports the work of the World Green Building Council, which earlier this month launched its Net Zero Carbon Buildings Commitment, and means that we are leading the emissions reductions charge, as one of only five Green Building Councils to have a net zero



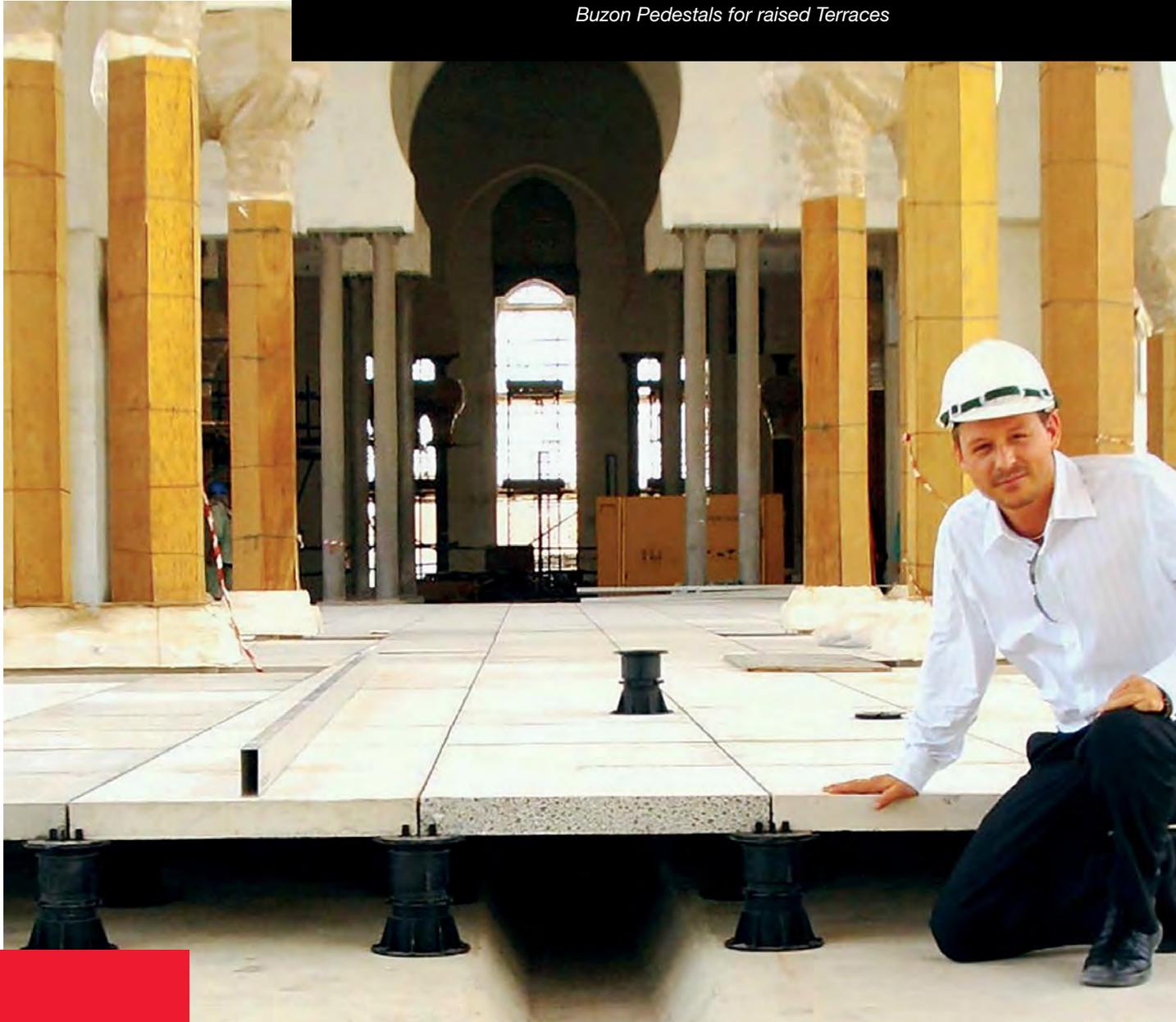
Romilly Madew. Photo: © AICD

carbon buildings certification scheme in place," she added.



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2018 President's Design Award recipients unveiled at the Istana



President Halimah Yacob (fifth person, in the first row) with the recipients of the 2018 President's Design Award at the Istana. Photo: Courtesy of President's Design Award

Singapore – Recipients of the 2018 President's Design Award were presented the nation's highest accolade for design by President Halimah Yacob on 17 July 2018 at the Istana.

There were nine recipients in the Design of the Year award category and four of them were architectural projects. Two individuals were celebrated as the Designer of the Year. They were Angelene Chan, the Chief Executive Officer of DP Architects and Hans Tan, Founder of Hans Tan Studio. The recipients were picked from a total of 131 eligible entries.

The 2018 President's Design Award (2018 P*DA) was jointly organised by DesignSingapore Council and Urban Redevelopment Authority (URA) in Singapore. This year, for the first time, the two organisers worked with a Knowledge Partner – Singapore University of Technology and Design (SUTD), SUTD-MIT International Design Centre (IDC) to assess the claims of impact submitted by shortlisted nominees for non-architectural projects. It was spearheaded by Professor Kristin Wood, Associate Provost of Graduate Studies, Co-Director, SUTD-MIT International Design Centre.

As part of a revamp after a decade, the P*DA now places greater emphasis

on outcome-based design impact in addition to the longstanding criteria of excellence in design craftsmanship. As a result of the revamp, the first-ever multi-disciplinary jury panel was appointed to evaluate the non-architectural entries. The esteemed 17-member panel of local and international jurors, which includes past P*DA recipients, are leaders in design, business, and architecture. In addition to selecting the 2018 recipients, the jury also commended Toh Yah Li, Partner at Light Collab LLP, for her work in lighting design.

"The 2018 P*DA recipients represent what we advocate for design in Singapore – an exceptional form of human-centric creativity that goes far beyond the aesthetics. Singapore has always tapped the power of design to meet the many challenges we face as a small island nation. The recipients embody this spirit of transforming and improving lives, businesses, society and even the world through design," said Mark Wee, Executive Director, DesignSingapore Council.

"We are encouraged to see the architectural recipients continue to forge the way forward in designing thoughtful, transformative and innovative spaces and places. We

applaud their celebration of community and greenery in ways that are also respectful to the projects' contexts," said Larry Ng, Group Director, Architecture and Urban Design Excellence of URA.

The four architectural projects in the Design of the Year award category are:

- Mediacorp Campus by Maki & Associates and DP Architects Pte Ltd,
- Oasia Hotel Downtown by WOHA Architects Pte Ltd,
- China Fuzhou Jin Niu Shan Trans-urban Connector by LOOK Architects Pte Ltd,
- The Tembusu by ARC Studio Architecture + Urbanism Pte Ltd

The other recipients in the Design of the Year award category are:

- Changi Airport Terminal 4 by Changi Airport Group,
- The Future of Us Pavilion by the Singapore University of Technology and Design (SUTD),
- The Warehouse Hotel by Asylum Creative Pte Ltd,
- weatherHYDE by billionBRICKS,
- Who Cares? Transforming the Caregiving Experience in Singapore by fuelfor and the National Council of Social Service.



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The Oval Partnership designs new culturetainment hub in Shanghai

Hong Kong – The Oval Partnership is pleased to announce that the construction of its award winning urban regeneration project Shanghai DreamCenter, is well underway and slated to open by the end of 2018.

The Oval Partnership is part of an international consortium tasked with transforming what used to be Asia's largest cement plant into a world class entertainment, art and cultural hub on the west bund along the Huangpu River. The 460 000 square metre creative and lifestyle destination will feature performance venues, creative media studios, theatres, cinemas, galleries, retail areas as well as restaurants and bars. One of the most ambitious developments of its kind in China, Shanghai DreamCenter envisions to become the flagship attraction of the West Bund Media Port in the Xuhui district.

The Oval Partnership is responsible for the masterplan of the one kilometre long waterfront area, as well as the overall retail concept design linking the Metro Line 11 station and the riverside. In response to the vastness of the site, we adopted a scenario planning approach that puts people at the centre of the masterplan design. The new urban form is an organic continuation of the city fabrics. Walkability is the primary objective: permeability, high quality public realm and pleasurable pedestrian experiences. Civic plazas, urban parks, streets, lanes and alleys are carefully orchestrated to create a rich network of public spaces, with human scale and urban experience at the heart of the design. The users are the placemakers.



The unique waterfront site features five industrial structures which are part of a disused cement factory that dates back more than a century. These robust remnants of the city's glorious industrial past are conserved and adapted into multi-purpose performance venues providing a total of 8,500 seats, including a 3,000 seat arena housed in an enormous dome where cement was once mixed. Historic and modern architecture finds harmony along the riverside, as local industrial and cultural contexts are respected and integrated into a vibrant culturetainment experience unseen in the region.

Shanghai DreamCenter has won Gold for Best Urban Regeneration Project at the MIPIM Asia Awards 2016. Other design firms which took part in the project include Kohn Pederson Fox Associates, 3XN, P&T Group, Schmidt Hammer Lassen Architects, ASPECT Studios and SIADR.

LTW brings modern-day Silk Road to Grand Hyatt Xi'an

Singapore – LTW Designworks unveiled the design of the newly opened Grand Hyatt Xi'an. LTW was commissioned to design the hotel's public areas, restaurants, ballroom and meeting facilities, spa and wellness centre, and all 396 guestrooms and suites. The hotel follows recent Grand Hyatt properties also designed by LTW in Sanya, Dalian and Changsha.

Known as one of the "Four Great Ancient Capitals of China" together with Nanjing, Luoyang and Beijing, Xi'an served as the eastern entrance of the Silk Road trading route, connecting the Han Dynasty in China to the western world. LTW drew its inspiration from the Silk Road's rich history, enduring spirit and multi-cultural handicrafts to create the bold, contemporary interiors of the hotel.



LTW referenced the Chinese idiom – 'a great hawk spreads its wings' – to create a strong and iconic motif that symbolises hope, success and new beginnings. This is manifested in the hotel's dramatic double-height reception lobby which is enveloped by a feather-like sculptural white feature wall with curving vertical lines that extends 10 metres high, and patterned timber walls forming wing-like

motifs. A faceted glass façade was also created to play upon the architectural angles, allowing the interior to create a seamless synergy with the architectural design. Two bubble lifts were wrapped with curved laser-cut metal screens with imagery depicting ancient Chinese palaces, bringing guests up to their rooms.

With cleverly adapted references to the rich heritage of the area complementing modern design details, the unique spaces in Grand Hyatt Xi'an portray the history of the Silk Road through sleek custom-made furnishings, eclectic motifs and thoughtful, modern details that define its sense of place. Through this project, LTW once again crafts a compelling narrative boasting the unique cultural identity of the region.

WIELAND ELECTRIC from Germany receives a world market leader ranking

Singapore – University of St. Gallen in cooperation with the weekly business news magazine *Wirtschaftswoche* and the Academy of German World Market Leaders has established a specific world market leader ranking. One of these leading companies is WIELAND ELECTRIC from Bamberg.

WIELAND ELECTRIC, with slightly more than 2000 employees and around € 270 million turnover worldwide is seen as a pioneer of safe electrical connection technology and is leading the field of pluggable electrical installations for functional buildings.

Managing Director Dr. Oliver Eitrich described the formula for success of the Bamberg-based company: "WIELAND ELECTRIC is the pioneer of safe electrical installations and offers a broad product portfolio. But it doesn't stop there. We are much more than only a product supplier – we support our customers with complete solutions. Planners, investors and installers have very specific demands and requirements. This is something we have understood and which is why we have come such a long way in the market. The recently awarded world market leader title makes us proud and motivates us to further develop our quality leadership for products and services."

Short timelines and tight completion schedules are the norm for on-site electrical contractors. That's why a quick, safe, and above all faultless electrical installation is necessary. Additionally, changes during the construction phase or ongoing operation require products that can offer a high degree of flexibility. The company's modular GESIS® system meets all these requirements and is impressively easy to use.

Cabling based on smart installation concepts creates clean installation structures. In combination with pluggability, this leads to a system that can be installed quickly and safely. Additionally, voltage drop is reduced and energy efficiency is increased through consistent three-phase cabling up to the load.

Wieland Electric GESIS® system is certified by Singapore Green Building Council.



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Danfoss helps you to make the most of the EcoDesign opportunity

Selangor, Malaysia – Although it is up to the manufacturers to meet these requirements to get the CE marketing if they want to sell their products in the EU, the overall refrigeration industry operators will be impacted.

For refrigeration manufacturers, EcoDesign is a chance to stay compliant, future-proof products and get a competitive edge over competitors in the EU – and outside of it. For refrigeration equipment owners, wholesalers and system installers, the legislation marks a turning point towards more sustainable, energy efficient and cost-effective equipment.

The EU EcoDesign directive, also referred as Energy-related Products (ErP) directive, ENTR Lot 12015/1095 and 2015/1094 for Professional Refrigeration will enter in its second tier on 1 July 2018. Affected applications are condensing units, professional refrigerated storage cabinets, blast cabinets, and process chillers.

The directive sets out minimum mandatory requirements for the energy efficiency of products with the aim to improve the overall performance of products and thereby protect the environment by reducing indirect CO2 emissions.

After a 1st step in July 2016, the energy performance levels of the condensing units are becoming more stringent. From July 1st, 2018, the Seasonal Energy Performance Ratio (SEPR) or the Coefficient of Performance (COP),



Optyma Plus™ Family from Danfoss. Photo: © Danfoss

depending on the cooling capacities, cannot go under these values:

The Danfoss Optyma™ condensing units, both packaged and bare ranges, have successfully passed the EcoDesign 2018 step with SEPR or COP values well above the thresholds. Some of them are also ASERCOM certified and the list is accessible from their website. On top of that, all the ranges come now with lower-GWP refrigerants such as R448A, R449A, R452A, and soon R513A and R290 on the

bare light commercial range.

With the CE marking on the products, professionals and end-users are guaranteed to choose compliant, future-proof solutions, achieving substantial savings on electricity consumption. In a transparent approach, Danfoss communicate on the annual electricity consumption of their units and have published an infographic where they have translated the cooling kW/h ratio into € savings.

Optyma™ Plus INVERTER vs mechanically modulated technology*

9 KW R407F		
UNIT	DANFOSS	MARKET
SEPR	3.84	2.5
USAGE	~ 14,000 kWh	21,600 kWh
YEARLY ENERGY CONSUMPTION SAVED: 7,600 KWH		
SAVINGS BASED ON COST OF ENERGY:		
FRANCE: 0.11€ / 1 KWH = 7,600 x 0.11 = 836€		
UK: 0.14€ / 1 KWH = 7,600 x 0.14 = 1,064€		
GERMANY: 0.20€ / 1 KWH = 7,600 x 0.20 = 1,520€		

1,520€

yearly saved on electricity bill in Germany by choosing Danfoss

Source test: Danfoss

KSB Etanorm pumps achieves SGBP Leader rating

Singapore – With climate change, the protocols of nearly every industry are constantly being changed to offset the damage caused, including the building and construction sector.

The widely endorsed Singapore Green Building Product (SGBP) labelling scheme is recognised under the Building and Construction Authority's (BCA) Green Mark Scheme, allowing certified products to accrue additional points that count towards a project's eventual rating.

To qualify, the building products are assessed on their environmental properties and performance through a comprehensive list of assessment criteria in the areas of

1. Energy Efficiency
2. Water Efficiency
3. Resource Efficiency
4. Health & Environmental Protection
5. Other Green Features

Depending on the qualities of the product, it will be awarded up to a maximum of 4 ticks (Good to Leader). KSB Singapore (Asia Pacific) Pte. Ltd. (a wholly owned subsidiary of KSB SE & CO. KGaA in Germany) has successfully renewed the certification for 26 of its Etanorm pumps with 4 ticks (Leader) rating, which is also the highest in the scheme.

With this certification, KSB Singapore is confident to be in an even better position to market the pumps to the building and construction sector with proven sustainability performance and higher acceptance level by customers. Thereby, giving the company a competitive edge over other brands in the industry.



Etanorm pump.
Photo: © KSB SE & Co. KGaA

Key features of the Etanorm / Etanorm R pumps include:

1. High energy efficiency (in accordance with Commission Regulation 547/2012/EC, Etanorm has MEI≥0.7)
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3. Operational reliability
4. Diversity of variants
5. Versatility
6. Service-friendly

The Etanorm / Etanorm R pumps are suitable for handling clean or aggressive fluids not chemically and mechanically aggressive to the pump materials. Applications include water supply systems, cooling circuits, swimming pools, fire-fighting systems, drainage systems, heating systems, air-conditioning systems and spray irrigation system.

Deyaar completes The Atria



Dubai, UAE – Deyaar Development PJSC has announced the completion of The Atria residential tower, with the handover process now imminent. The Atria is the second project completed by Deyaar in 2018, following the handover of the Mont Rose in April. Located in Business Bay, The Atria is composed of two towers – 30-storey residential tower, and a 31-storey four-star hotel apartment tower. Residents in The Atria enjoy amenities including a swimming pool and gym, with access to facilities in the adjoining serviced apartments tower. These include fine dining restaurants, a retail arena, and a central park-plaza atrium. With total built up area of 1.4 million square feet, The Atria features 219 residential units split into one-bedroom, two-bedroom and three-bedroom apartments, with select three-bedroom duplex options and two luxurious four-bedroom penthouses. The hotel apartment tower is composed of 347 bespoke apartments, including studios, one, two and three-bedroom apartments, and three-bedroom duplex units.

dormakaba's Quantum® Pixel Lock delivers low visibility, Bluetooth/RFID



Singapore – The elegant Quantum® Pixel is a dormakaba mobile access enabled electronic door lock. Quantum Pixel is a low-visibility Bluetooth + RFID door lock system that collects a wealth of lock activity to support productivity analytics and a flawless guest experience. dormakaba manufactures the Saflok™ and Ilco™ electronic door locks and provides installation and service for these locking systems.

Quantum Pixel offers a minimalistic appearance that complements any hotel decor. It combines the advanced technology valued in today's global hospitality market with the clean presentation designers and architects are seeking. dormakaba's engineers took a 'less is more on the door' approach that leverages space inside the door to house the system's electronics. The new Quantum Pixel delivers wireless network integration and mobile access features that prove great things can come in small packages.

dormakaba is moving beyond locks and hardware manufacturing with lock systems that merge global software and analytics to help hoteliers do a better job with actionable information. Its online locks capture and record a great deal of data that makes maintenance predictive, and continuously monitors room door status to keep hotels secure. dormakaba systems also record frequency of door use to help properties balance room usage and enable hotels to schedule staff



more efficiently.

dormakaba understands that the more intelligence that is built into a lock system, the more operators can learn about their hotel, the guest experience, and the lock's performance. The usage profile of each lock provides data that supports better decision making while it reduces operator maintenance costs and improves the guest experience.

Victaulic commits to best piping practices in Southeast Asia

Singapore – Victaulic, one of the world's leading manufacturers of mechanical pipe-joining systems, has demonstrated its commitment to advancing the Southeast Asian construction industry through a week-long series of Best Piping Practices training sessions in Singapore and Malaysia.

Coordinating training sessions with industry organisations and engineering firms, including the Building and Construction Authority (BCA) Academy of Singapore and the Institution of Engineers of Malaysia (IEM), over 90 engineers, contractors, owners and students were trained on Victaulic best piping practices.

With more than 30 years' experience in the piping industry, Jack Carbone – Senior Engineer with Victaulic's Training group, Victaulic University – led the training sessions which centered on pipe grooving and coupling installation fundamentals as well as more specific product-focused sessions, such as the VicFlex™ flexible sprinkler system.



Jack Carbone conducting the training session. Photo: © Victaulic



Ir. Cha Hong Kum (right), Deputy Chairman of the Building Services Technical Division, IEM, presents Jack Carbone with a plaque of appreciation for his training session in Malaysia. Photo: © Victaulic

Feedback from the industry was overwhelmingly positive. "This type of product training is crucial to the success of my projects," said Alex Neng, Director, PME Consulting Engineers Sdn Bhd. "After what I just learned at this seminar, I have a much clearer understanding of proper installation procedures and how to visually check for correct piping installation," added Mr Neng.

Ir. Cha Hong Kum, Deputy Chairman of the Building Services Technical Division, IEM added: "The training support that our organisation has received is a game changer for our members. The training has helped them to see the real benefits of specifying and drawing with Victaulic products across all industries. Our members can now engineer their projects with 100 percent confidence in the products they're choosing."

"Victaulic understands the challenges in the construction industry in Southeast Asia, and we pride ourselves on being innovation-driven to meet those challenges," noted Bryan Peck, Fire Protection Regional Sales Manager of Southeast Asia. "In many cases, Victaulic has a product solution – or a training solution – which can help engineers, owners or contractors overcome common design and construction issues. The intention of this training series was not only to show those solutions, but to also educate the industry on best piping practices regardless of the product or manufacturer chosen. We all envision the same thing – more successful, safer and efficient construction projects. And Victaulic will continue to show its commitment to that shared goal by offering both formal and informal training opportunities in the region," said Mr Peck.

Joint venture signed on the formation of Laminam China

Modena, Italy – Laminam, the Italian company global leader in the production of large-format ceramic slabs for architecture, interiors and furniture, has signed a joint venture with the Chinese entrepreneurs Mr. James Huang and Mrs. Ge Fei, owners of the company Fhr Resources, leaders in China by 20 years in the construction field and import/distribution of marble and natural stone.

The agreement, signed in Shanghai between CEO Laminam Spa Alberto Selmi, Mr Huang and Mrs Fei on 6 June 2018 officially creates Laminam China. The new shareholding structure confirms the growth and internationalisation trends of the brand of Fiorano Modenese.

Laminam China will be a support at the growth and achievement of industrial target and it will be aimed at strategic improvement and expansion in the PRC territory.

An example of this is two recent strategic projects in the capital Beijing: all facades of the new Olympic Village Shougang Tuoliu and the covering of two towers Z15 and Z12, tallest towers of the capital.

"We have elaborately chosen the 6th of June, which is the Chinese seeding date



Handshake between the Chinese entrepreneur James Huang and CEO Laminam Alberto Selmi.
Photo: © Laminam

(the ninth solar term of Chinese lunar calendar) as the official signing date for the joint venture and good omen for the upcoming growth and in line with the results of our global colleagues. Sincere congratulations on the foundation of Laminam China Limited in Shanghai," said Mrs Ge Fei, Director of Laminam China.

"Export characterise 70 percent of our revenue and China represents one of the most growing markets. This joint venture aims to strengthen our brand and consolidate the leadership in a Country where our ceramic slabs have a great potential," said Mr Alberto Selmi, CEO Laminam.



Examples of the joint venture are two recent strategic projects in Beijing: all facades of the new Olympic Village Shougang Tuoliu (pictured left) and the covering of two towers Z15 and Z12, the tallest in the city. Pictured above is the main entrance of the Z15 tower. Photos: © Laminam

Diller Scofidio + Renfro and Woods Bagot win Adelaide Contemporary International Design Competition

London, UK – The building was described by the team in their presentation as a charismatic soft beacon on North Terrace that would reflect the sky by day and, at night, glow with galleries – allowing visitors to glimpse the art collection as they passed the building outside formal opening hours and, in this sense, 'giving the art back to the city'.

The nine-strong international jury, chaired by Michael Lynch AO CBE, found the concept design to be resonant to Adelaide, and its famous festival culture, promising to create spectacle and attract new audiences with dynamic, multipurpose spaces while also displaying a sound understanding of current art practice and offering a flexible but distinctive gallery configuration on a nine-square model.

The decision follows a seven-month global search for an outstanding team to design a new cultural destination on part of the former Royal Adelaide Hospital (oRAH) site. The competition attracted submissions from 107 teams made up of circa 525 individual firms from five continents.

The new gallery and public sculpture park is envisaged as



Daytime view from North Terrace. Photo: © Diller Scofidio + Renfro and Woods Bagot

one of the most significant new arts initiatives of 21st-century Australia, providing a national focal point for Aboriginal and Torres Strait Islander art and cultures as well as new spaces for major exhibitions, and the opportunity to unlock the hidden treasures of South Australia's State collections. The competition was organised by Malcolm Reading Consultants.

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RSHP celebrates the completion of 3 World Trade Center in New York

London, UK – On 12 June 2018, RSHP celebrated the historic opening of 3 World Trade Center as part of the redevelopment of Manhattan's Ground Zero 16-acre site. The ribbon-cutting was attended by Larry Silverstein and RSHP partners Richard Paul and John McElgunn.

At 1079 feet tall, 3 World Trade Centre is a prominent new tower on Manhattan's skyline and RSHP's first built project in New York. The tower is located at 175 Greenwich Street, opposite the WTC memorial and Cultural Center at the heart of the Financial District in downtown Manhattan. RSHP's tower is the third building to complete on the World Trade Center (WTC) masterplan site developed by Silverstein Properties.

3 World Trade Center is an 80-storey commercial building and contains 2.5 million-square-foot rentable space above ground, five floors of retail including at ground level and links direct to the state of the art new World Trade Center transportation hub. The tower connects to underground pedestrian concourses that lead directly to 11 subway lines and the PATH trains.

The design of the exterior bracing not only works to provide the building's stability but also allows 3 World Trade Center's tenants the flexibility to create work spaces with column free corners that suit the particular needs of modern businesses. Additionally, the bracing adds scale and grain to the building as well as creates shadow; the interplay of light from the reflection of the stainless steel changes the building's coloration.

The lower part of the building – the 'podium building' – contains the tower's retail element and the trading floors. 'Live', active façades, at street level, enable the free-flowing movement of shoppers. There are two below ground level retail levels and three retail levels above the ground floor, served by two lifts and four stairwells.

There is a 5,500-square-foot landscaped garden terrace on the 17th floor and another two smaller garden spaces on the 60th and 76th floor – set to be Manhattan's highest – which overlook the Memorial park with views of the entire lower Manhattan area. The terrace provides opportunities for tenants to meet and encourages a sense of community and wellbeing



Photo: © Joe Woolhead

within the building.

Green design features such as LED lighting used throughout the lobbies to aid energy saving and perimeter lighting controls which enable 68 percent of daylight to be used as it reacts to the current daylight and reduces energy output. These are incorporated to reduce costs compared to typical Manhattan office buildings. The building has been awarded 'Gold' Certificate for Leadership in Energy and Environmental Design from the U.S. Green Buildings Council.

Richard Rogers, Founding Partner, Rogers Stirk Harbour + Partners said: "It has been a great privilege to design one of the new buildings on this key site in New York. We are particularly delighted that we have been working in the heart of this vibrant city. This was a complex and challenging project but one which has helped to contribute to the revitalisation of New York City and one which will help to inspire a new hope for the city's future.

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Email seab@tradelinkmedia.com.sg

ZHA wins Admiral Serebryakov Embankment masterplanning competition

London, UK – Located on the Black Sea coast, connecting Russia with the Mediterranean, Atlantic Ocean and Suez Canal, the city of Novorossiysk is the nation's largest shipping port and the third busiest in Europe by turnover. With direct links to Russia's rail and highway networks, Novorossiysk has also developed into an important centre of industry.

Documented in antiquity as a port specialising in grain, Novorossiysk rich history and traditions as a centre of trade are continued in this masterplan that integrates new public spaces and amenities for the city's residents and visitors to enjoy the seashore with facilities to host international conferences, trade fairs and business congresses, as well as professional and academic seminars.

With its buildings orientated perpendicular to the sea front to maintain existing sea views from the city, the masterplan is interwoven with Novorossiysk's urban fabric in a porous configuration that reconnects the city with its coast, inviting residents and visitors to traverse the site via public plazas, gardens and parks.

By restricting vehicular access, the



Admiral Serebryakov Embankment. Rendering by VA

design creates opportunities for outdoor leisure, sports and recreation in the city's coastal subtropical climate throughout much of the year.

The masterplan unites its recreational, cultural, corporate and ecological functions within a coherent composition that reinstates the city's embankment promenade as important civic space reflecting Novorossiysk's maritime heritage. A new fishing port, marina and piers are integral to the masterplan, enabling residents and visitors to enjoy the seashore on which

the city was founded.

The 13.9-hectare masterplan is a phased development of nine principal buildings with a total floor area of approximately 300,000 square metres. Applying the concept of 'instancing' in which nine iterations of a single form evolve in a gradient across the site, the configuration of each building is established according to its unique function, conditions and requirements.

Construction of the masterplan's first phase is due to start in the second half of 2019.

Reinier De Graaf appointed Visiting Professor at The University Of Cambridge

Rotterdam, the Netherlands – The University of Cambridge and OMA are pleased to announce that OMA Partner Reinier de Graaf has been appointed Sir Arthur Marshall Visiting Professor of Urban Design for 2018–19 at the Department of Architecture of the University of Cambridge.

Reinier's professorship will focus on how buildings have become an indispensable vehicle for generating financial returns and the implications this has on architectural form and typology. His programme, entitled 'The Asset Class', will radically reexamine the history of architecture: not as a succession of styles, but as an ever-involving reflection of the economic system – architecture dictated not by its use value, but by its value as an asset to be traded. The theme continues the discussion initiated in Reinier's book, *Four Walls and a Roof: The Complex Nature of a Simple Profession* (Harvard University Press, 2017), named among the best books of 2017 by the Financial Times and the Guardian.

Reinier de Graaf succeeds British filmmaker Patrick Keiller and before him sociologist Richard Sennett as the distinguished Visiting Professor.



Photo by Adrienne Norman

John Portman & Associates unveils design for super tall tower in Wuxi, China

Atlanta, Georgia, USA – John Portman & Associates announced that the firm's design for Xi Shui Dong Lot A Super Tall Project, Greenland Wuxi 200, was declared the winning entry in an international design competition held by Greenland Hong Kong Wuxi. Together with its podium base, the 657-foot (200-metre) tower will include over 947,000 square feet (88,000 square metres) of built area. Planning for the new tower has its basis in three key ideas – bold clarity, holistic simplicity, and a constructed aesthetic.

Firm Principal and Design Director, Gordon Beckman, AIA, elaborated: "The tower itself develops from the pragmatic programmatic initiatives. Simple, bold geometries assure a strong presence as a marker for the new district. Further, the project is composed with a systems approach, using the appropriate, economical and efficient systems, composed so that each contribute to the greater whole."

Anchored on the northeast corner of the site, the tower emerges from a four-storey mixed-use podium that includes activating retail. The podium is elevated to create a porous connection from the canal waterfront to the central space of the five towers court. Elevating the podium allows for vehicular access around the base of the tower, creating entry courts for the primary functions of the project. The more public hotel entry is located to the east, while a more private, exclusive residential



entry is located to the west. This scheme proposes that the retail street be transformed to a pedestrian street without a road connection through it.

Designed from the outside in and from the inside out, Greenland Wuxi 200 is a soaring, crystalline, 55-storey mixed-use tower, a vital and energetic place for people.

KONE to equip landmark mixed-use real estate development in Madrid

Helsinki, Finland – KONE has won an order for the Caleido mixed-use property in Madrid, Spain. The development covers over 70,000 square metres of floor space and includes a 36-storey high-rise to complement the four existing towers on the site.

Caleido will become Spain's first educational tower, housing the Instituto de Empresa (IE) university campus. Beneath it, a lower building that forms an inverted T, will feature a Quirón Salud medical clinic specialised in preventive medicine and sports, as well as commercial premises, restaurants and large green zones.

KONE will equip the development with 18 KONE MiniSpace™ high-rise elevators traveling at maximum speeds of up to 6 meters per second, 24 KONE MonoSpace® machine room-less

elevators, four KONE TranSys™ heavy-duty service elevators, and four KONE TravelMaster™ 110 escalators.

KONE will also provide its advanced people flow solutions to enable students, teachers, medical staff, and visitors to move around the site smoothly, safely and efficiently. These include the KONE Destination control system, which optimises elevator performance to minimise waiting times and maximise convenience for building users. KONE Access will integrate the buildings' doors seamlessly with the elevator system for secure and efficient access management, and KONE InfoScreens will offer a quick and easy way to deliver multimedia and web-based information and guidance in the buildings.

KONE will maintain the equipment in the buildings with its intelligent

KONE 24/7 Connected Services. KONE 24/7 Connected Services uses the IBM Internet of Things (IoT) platform and other advanced technologies to improve equipment performance, reliability and safety. It enables vast amounts of data gathered by sensors connected to the elevators to be monitored, analyzed and displayed in real time, leading to less equipment downtime, fewer faults, and detailed information on maintenance work.

The developer of Caleido is Espacio Caleido, a joint venture between Inmobiliaria Espacio and Megaworld Corporation. The architects are Fenwick & Iribarren and Serrano-Suñer. The project is expected to be completed at the end of 2020.

KONE booked the order in the second quarter of 2018.



**5-7
SEPT**

BEX Asia 2018

Marina Bay Sands
Singapore
T: +65 6780 4671
E: info@bex-asia.com
W: www.bex-asia.com

**12-14
SEPT**

CamBuild 2018

DIECC, Phnom Penh
Cambodia
T: +60 3 2692 6888
F: +60 3 2692 2788
E: yeo@ambtarsus.com
W: www.cambuildexpo.com

**19-21
SEPT**

**Concrete Show South
East Asia 2018**

Jakarta International Expo
Jakarta, Indonesia
T: +62 21 2525 320
F: +62 21 2525 032
E: niekke.budiman@ubm.com
W: http://concreteshowseasia.com

**19-21
SEPT**

**Construction Indonesia
2018**

Jakarta International Expo
Jakarta, Indonesia
T: +62 21 2525 320
F: +62 21 2525 032
E: niekke.budiman@ubm.com
W: www.constructionindo.com

**2-4
OCT**

**Architecture & Building
Services (ABS) 2018**

Halls A, B & C
Marina Bay Sands
Singapore
T: +65 6278 8666
F: +65 6278 4077
E: info@cems.com.sg
W: www.
architecturebuildingservices.com

**2-4
OCT**

ArchXpo 2018

Marina Bay Sands
Singapore
T: +65 6278 8666
F: +65 6278 4077
E: info@cems.com.sg
W: www.archxpo.com.sg

**2-4
OCT**

iFAME 2018

Marina Bay Sands
Singapore
T: +65 6278 8666
F: +65 6278 4077
E: ifame@cems.com.sg
W: www.ifame.com.sg

**4-6
OCT**

**Myanmar Build
& Decor 2018**

Myanmar Event Park (MEP) at
Mindama
Yangon, Myanmar
T: +66 2 713 3033
F: +66 2 713 3034
E: info@icvex.com
W: www.myanmarbuilddecor.com

**8-10
NOV**

Thailand Lighting Fair 2018

BITEC
Bangkok, Thailand
T: +852 2802 7728
F: +852 2598 8771
E: info@hongkong.messefrankfurt.com
W: http://thailandlightingfair.
hk.messefrankfurt.com

**8-11
NOV**

PHILCONSTRUCT 2018

Manila, Philippines
T: + 63 2 893 7973
F: +63 2 550 1148
E: info@globalinkmp.com
W: www.philconstructevents.com

**13-15
NOV**

MBAM OneBuild

Kuala Lumpur Convention Centre
Kuala Lumpur, Malaysia
T: +60 3 7987 1668
F: +60 3 7987 2668
E: info@oneinternational.com.my
W: www.oneinternational.com.my

**16-18
NOV**

Myanbuild'18

MEP Mindama
Yangon, Myanmar
T: +60 3 2692 6888
F: +60 3 2692 2788
E: darren@ambtarsus.com
W: www.myanbuild.net

**22-24
NOV**

**Shanghai International City And
Architecture Expo 2018**

National Exhibition and Convention Center
Hall 5.1 Hall 6.1
Shanghai, China
T: + 86 21 6195 355
F: +86 21 6195 6099
E: rainhard.yao@vnuexhibitions.com.cn

**20-24
FEB**

Korea Build 2019

KINTEX
Seoul, South Korea
T: +82 2 3397 0152
F: +82 2 3397 0067
E: koreabuild@e-sang.net
W: http://eng.koreabuild.co.kr

Green building leaders to gather at Green Building Conference 2018



Photo from Green Building Conference 2017. Photo: © Philippine Green Building Council

Manila, Philippines – The Philippine Green Building Council (PHILGBC), an established member of the World Green Building Council (WorldGBC), has announced the staging of its 12th annual green building event, Building Green 2018 on 21 September 2018 at the SMX Convention Center at Pasay City, Philippines.

The Building Green Conference is the annual gathering of leaders from the Philippines' building and construction industry to a meaningful and productive dialogue with green building colleagues in the public and private sector. Programmes, initiatives, best practices and the latest products and technologies that promote sustainable and greener environments are highlighted during Building Green.

This year's Building Green Conference is set to welcome the opening of international celebration of the World Green Building Week. World Green Building Week is an annual event that empowers the green building community to deliver green buildings for everyone, everywhere. Led by the WorldGBC together with over 70 national Green Building Councils globally, World Green Building Week, happening from 24 September to 30 September 2018, will feature various events and activities that promote sustainability and greener environments.

This year's World Green Building Week celebration, with the theme #HomeGreenHome, emphasises on the global green building community's call to action for livable places to be greener, healthier and more energy efficient. Buildings, including homes where we live in, account for around 40

percent of global energy consumption. By greening our homes, we do not only reduce our consumption of energy but conserve other resources as well. More green homes mean more places that we live-in that are healthier, safer, and better places for people and the environment.

One of the highlights of Building Green 2018 is the awarding ceremonies for the 2nd PHILGBC Awards for Leadership in Green Building. The PHILGBC Awards are designed to showcase and celebrate the achievements of movers in the building and construction industry in the country, and to highlight their green building leadership both locally and internationally.

"The awards programme not only to recognises the significant contribution of companies in Green Building and Sustainability but also to inspire the local real estate industry that projects can be successful and profitable in both an economic and environmental sense," said Ar. Gabriel Ma. Angelo Cascante, PHILGBC's Awards Committee Chairman.

The PHILGBC Awards have three categories: Business Leadership in Sustainability, Leadership in Sustainable Design and Performance, and, Women in Green Building Leadership Award.

Winners of the PHILGBC awards also represented the Philippines in the regional selection of finalists for the World Green Building Council-Asia Pacific Leadership in Green Building Awards.

Building Green 2018 is happening alongside the Green Philippines exhibit and the Electrical, Energy and Power Philippines.

SGBC launches a new public campaign to raise awareness of the role of green buildings



Mr Masagos Zulkifli (third person from the left) Minister for the Environment and Water Resources, officiated the campaign. Photo: © Singapore Green Building Council

Singapore – The Singapore Green Building Council (SGBC) is taking its inaugural campaign to promote green buildings to the streets of Singapore.

The "Live.Work.Play.Green: Campaign aims to reinforce the benefits of green buildings in an engaging and interactive format. It was officiated by Mr Masagos Zulkifli, Minister for the Environment and Water Resources, at the annual SGBC Leadership Conversations thought leadership forum.

"Improving energy and carbon efficiency in our buildings is a key strategy for reducing our emissions," said Minister Masagos. "This is a good effort to raise awareness among building owners and users of the value of green buildings, and the important role they play in reducing our carbon footprint," he added.

Over a two-month period in August and September 2018, the Live.Work.Play.Green campaign will leverage on public buses to bring the green message to members of the public. These buses will prominently feature messaging and nuggets of green building trivia on both the exterior and interior of the vehicles. An interactive campaign website (www.greenbuildings.sg) will also feature short quizzes where the public can stand to win attractive prizes while learning more about the benefits of living, working and playing in green

buildings. Concurrently, a digital marketing blitz will run on social media platforms, leveraging information of consumption habits to intensify awareness and increase publicity.

Mr Tan Swee Yiow, President of the SGBC, said, "Climate change poses an existential threat, and it will take a collective, concerted effort to mitigate its effects on a global scale. In support of the Year of Climate Action, we are glad to roll out the Live.Work.Play.Green Campaign today, which we believe will drive public engagement on the green building movement and embed the seeds of sustainability within the community."

During the SGBC Leadership Conversations 2018 held at the National Gallery Singapore that was attended by over 150 industry leaders, Minister Masagos and Mr Tan engaged in a dialogue on practicing sustainability for climate action. The session was facilitated by Ms Pauline Goh, CEO (South East Asia) of CBRE Pte Ltd.

A mini exhibition showcasing a selection of innovative sustainable solutions that address climate challenges was also co-located at the Leadership Conversations forum. The exhibition showcased how practical solutions can be readily accessed to address climate challenges, from a lightweight green roof system to translucent concrete and solar thermal hybrid air-conditioning systems.

LIXIL SPALET ICONIC TOUR 2018: Flushed with Success!

LIXIL, a global leader in sanitary fixtures and fittings, held its first ever tour to Nagoya, Japan, for architects, designers, developers and the media in Asia Pacific region, from 12–13 July 2018. Our magazine *SEAB* could not miss such an invitation – as the tour's itinerary included a visit to the LIXIL Nagoya showroom and to the INAX Museum that showcases the history of ceramics production in the company as well as in Asia and Middle East. The highlight of the trip was picking the grand winner of the DREAM SPALET DESTINATION Competition 2018 organised by LIXIL.

Called the "LIXIL SPALET ICONIC TOUR", the objective of the two-day trip was to bring together architects, designers, developers and even the media to discuss together and inspire each other. LIXIL decided to focus on SPALET, a fusion of the Zen-like spa experience with the functionalities of a western toilet, because it is part of the company's history in Japan whereas for many parts of the world, it is still a new trend. This focus would help the company bridge the past and the future of what is coming through one product and one technology and see how it links all of that together. Nagoya city was chosen primarily because of Tokoname city, which is the birthplace of INAX shower toilets and which is also famous for the whole history of ceramics production.

The tour started with a visit to the Nagoya Station, a megalopolis of the future, JP Tower, JR Gate Tower and the Dai Nagoya Building. Recently opened in 2017, the Dai Nagoya Building is a stunning development, comprising over 33,000 square metres of office and commercial spaces. The exterior of the tower was designed by Asao Tokoro, creator of the Tokyo Olympic logo and the building was designed by leading architectural firm Mitsubishi Jisyo Sekkei. The next stop was at the LIXIL Nagoya showroom where we were

shown the company's wide array of product offerings such as kitchen, bath and tile products.

On day two of the tour, our group travelled to the historic pottery town of Tokoname, the birthplace of INAX, to visit the stunning INAX Museum. The museum, operated by LIXIL, is the only museum of its kind to feature historic tiles from ancient Egypt, China, Orient, Spain, Middle East and Japan as well as old painted Japanese toilets.

DREAM SPALET DESTINATION Competition 2018 winner announced

In the evening, the grand winner of the DREAM SPALET DESTINATION Competition 2018 was announced during a dinner cum award programme held at the Nagoya Tokyu Hotel. The DREAM SPALET DESTINATION Competition 2018 was launched by LIXIL for architects and designers who utilised LIXIL SPALET products in the bathrooms of their hospitality projects. Hotel or resort projects fitted with SPALET products from the three brands in LIXIL's product portfolio – INAX, American Standard and GROHE – were featured on a specially created website www.ilovespalet.com. The entries were vetted both by online consumer voters and a panel of LIXIL judges, including Mr Bijoy Mohan, CEO of LIXIL Asia Pacific, who

picked five finalists from the entries. The grand winner of the DREAM SPALET DESTINATION Competition 2018 was the 'Grande Centre Point Sukhumvit 55' in Bangkok, Thailand, designed by Mr Thanawat Sukhaggananda of Interior Visions.

Single-point strategy: Making the journey easy

During a group interview with the media, Mr Bijoy Mohan, CEO of LIXIL Asia Pacific, said that the company has a single-point strategy: "We want to take the Japanese proposition, which is the most advanced bathroom proposition in the world, one by one to the rest of the world in a different way. We will use all our different global brands and each brand doing it slightly differently, depending on the maturity of the market."

He added that the challenge for the company was to find the commonalities in the different countries in Asia Pacific and enhance them. Across Asia, the focus of the company will be on consumers. Whether they want to renovate or build a bathroom, LIXIL aims to make their journey easy. "Sometimes, the products look all the same or the consumers have no idea whether they should begin with the plumbing or tiles. It is very complicated, so our goal as the largest company in the industry, is to make that journey easier," said Mr Bijoy.

INTERVIEW: "We want to transform the end-to-end journey for home solutions for consumers", says Mr Bijoy Mohan

In a one to one interview with SEAB, Mr Bijoy Mohan spoke about his role and responsibilities, how LIXIL designs sustainable products, how the company is collaborating with architects and designers and his vision for LIXIL for the next five years. Comments have been edited for brevity.

SEAB: What is the design philosophy for LIXIL?

BIJOY: LIXIL is a corporate brand. The design philosophies are unique to each of our individual brands. But across all the brands we focus on meaningful design, in the sense that it has to fulfil a purpose for the consumer, for the environment or for the market in general. So purposeful, meaningful design is very critical to LIXIL as a corporate philosophy.

SEAB: What kind of market position does LIXIL enjoy in the bathroom and sanitaryware industry in Japan and Asia Pacific region?

BIJOY: As a consolidation of all our brands together, we are the largest bathroom company in the world and Asia. Over 1 billion people touch LIXIL products across the world, everyday. But if we look at individual products within the bathroom, then it is different in different countries. In some countries, we are leading and in other countries, other people are leading.

SEAB: How do you integrate sustainability in your business and products?

BIJOY: This is very important and it requires leadership from the industry. Especially in the bathroom industry, we are dealing with water, which is an extremely important commodity. True water savings will come from the efficient use of water, which means that you need to use less water but it should not affect the enjoyment of your water. For example, in some of our designs, we have taken away the centre of the shower so that there is no spray there. In a typical shower, the water that comes out from the centre is a waste. So we design it in such a way that uses less water but it can efficiently do its job.

SEAB: How closely do you work with interior designers/architects in Asia who want to choose a bath or shower product for their projects?

BIJOY: Architects and designers are our biggest influencers in our business. We have teams that meet architects and designers everyday to help them specify the products. They are not specialists when it comes to bathrooms, so they always ask us to teach them and make their job easier. We have also developed a number of tools which we introduced a few months ago in Singapore. One of the tools is called CustoMy Space. This is an actual bathroom design tool and it is aimed at smaller design firms. Now, they can design a bathroom from

zero on a blank sheet of paper to a 3D rendering of a complete bathroom in about 15 minutes, and the client can play around with the location of the bathroom, colour, etc.

SEAB: What is your role as the CEO of LIXIL Asia Pacific?

BIJOY: For a business like us, the most important role of the top management is the 3Ps – Products, Production and People. Products are the heart of what we do. I spend a lot of time on our product strategy, focusing on what are the products that we need to develop and what are we expecting them to do. I'm involved from the whole product research to the launch. I also make decisions on production, which are usually a 10-year decisions. For example, do we need to have new manufacturing equipment? where do we make them? or do we need to expand the capacity? As for people, I need to make sure that we have got the right and the best people for the business to function. My responsibility is overseeing 23 countries in Asia Pacific and we have 9,000 employees across this region.

SEAB: What is your vision for the next five years?

BIJOY: We want to make the home experience extremely easy and enjoyable for the consumer because if that happens, then the whole industry will grow along with it. That is our business proposition. Also, since we are the largest company in this industry, we have an obligation to reach people who don't have access to basic health and hygiene. We have a lot of projects on this front, and we don't call it charity or CSR work. It is part of our normal work. For example, we have developed products and technology focused on rural sanitation for places like Bangladesh, India and Africa. We have developed solutions that allow us reduce water usage and waste, especially for those areas where water supply is a problem. We have solutions for other places where there is water but hygiene is a problem. This is something that we are very proud of because we are fulfilling a very important obligation. The Japanese consumers are very engaged with it. By buying one LIXIL product, they are donating one rural toilet to someone in India, for example. This initiative drives a lot of business and consumer engagement. We are now figuring out how to do this regularly across Asia.



Making cities in Asia and Middle East *cleaner and greener*

Many cities in Asia and Middle East are delivering green buildings to improve the quality of living for its people. The pace is slower in some developing countries due to economic and political reasons but it is surely gaining momentum. Green building councils for example are putting in huge efforts to bring about this change. Whether it is skill upgrading or raising awareness, green building councils are working towards a common goal, that is to bring environmental, economic and social benefits to cities around the world. In this issue, our media partners present their views on the current state of the green building industry in their countries and what role they can play to drive the green building movement forward.

“Imbedding green stewardship within social and cultural values.”

Jordan maintains its status as a pioneer in sustainability and green building solutions within the MENA Region. While it doesn't boast an extended list of accredited and certified green buildings and projects as much as other countries in the region, it was able to positively imbed environmental stewardship within its social and cultural values through collaborative awareness and education. Economic challenges that have long affected Jordan contributed negatively to the interest of green building owners to seek internationally recognised accreditation, however; many projects and existing buildings have adapted highly effective green solutions. The business community has become more aware of economic and environmental benefits of implementing and retrofitting green applications into their built environment.

The Jordan Green Building Council continues to play a major and vital role in raising awareness through its training programmes and by setting multiple examples of economically viable solutions to greening the built environment. It has also advocated and contributed to legislative reforms and drafting of laws that support its agenda to a greener and sustainable future.

Fahed Abujaber
Chair
Jordan Green Building Council



“Green industrial skills are essential for our workforce.”

Currently, the Yangon Regional Government is striving to make the City of Yangon and the whole region cleaner and greener. Regarding green building sectors, Myanmar is now trying to bring forth development of green buildings to improve the lives and livelihoods of our citizens through greening of Yangon City and other regions.

However, we cannot expect that the existing workforce already know about the "Green Industrial Skills". We are well aware of the fact that "green industrial skills" are essential for our workforce. Therefore, we have drafted Myanmar National Building Code in which Green Building chapter has been included in 2016; organised seminars, workshops and trainings on green industrial skills and promote the green business across the private sectors.

Private sectors in Myanmar have many business lines and today we focus on infrastructure, architecture and construction sector; in which water and energy are basic necessities in this green building industry.

Dr. Swe Swe Aye
Chairperson
Green Building Committee, BEI,
Myanmar



“Sri Lanka has great potential to adopt sustainable development measures fully.”

The mammoth construction boom has swept across all sectors in Sri Lanka, from small developers to large and is more profound in the commercial hub of the country, Colombo. The palpable sight of the mushrooms of upcoming construction hovering over the city doesn't go undetected. Although this echoes country's development, as active individuals in the industry we must strive for sustainability of this development.

With the leadership of Green Building Council of Sri Lanka (GBCSL), green building is gaining popularity in the Sri Lankan market reflected via the enthusiastic vigorous participation of the community in our training courses, awareness campaigns and public talks. Over 100 new buildings just in the year of 2018 had at least inquired to build green evidencing the interest to go green. GBCSL is currently providing sustainability assistance to over 40 buildings and have so far converted 200,000 square metres into sustainable built environment. Some restrictions pertaining to sustainable development are still common in Sri Lankan context, many having to do with lack of sufficient knowledge, financial resources, unawareness on the available technology and plain ignorance. However, there are many individuals and organisations that see the value that it offers in the long run for example the state banks have registered all new branches to build according to the green concept. The government of Sri Lanka has also imposed certain regulations supporting the cause but the standardisation of them is yet to be perfected.

There is still a long way to go for absolute green development of the country but we are pleased to see the GBCSL initiatives has set the course on track and with a small push from the government regulations, more public awareness and active involvement of developers, the country has great potential to adopt sustainable development measures fully. As Green Building Council of Sri Lanka, this is our vision for the country and all our efforts and resources are invested to strive for this.

Prof. Ranjith Dissanayake
Chairman
Green Building Council of Sri Lanka



“We are encouraging Qatar to become a greener nation and for more green buildings projects.”

Our vision at Qatar Green Building Council (QGBC) is to provide leadership and collaboration in Qatar towards guiding and adopting environmentally sustainable practices for green building design and development, in order to support the health and sustainability of our environment, people and economic security for generations to come. We provide an open platform to all organisations in Qatar to participate and learn more about sustainability through holding many seminars, lectures and events to increase knowledge about green building practices.

In a relatively short time, Qatar has undergone spectacular urban development and with QGBC's guidance in sustainability, we are encouraging Qatar to become a greener nation and for more green buildings projects.

Three green building projects in Qatar highlight the country's commitment to sustainable practices in construction and infrastructure development:

- Msheireb Downtown Doha: The world's first sustainable downtown regeneration project.
- Qatar National Convention Center (QNCC): One of the world's most iconic energy-efficient convention centres built to date, boasting an iconic design bearing the 'sidra tree'.
- Lusail Smart City: Referred to as the 'City of the Future', it boasts a light rail network, a water taxi transportation system, cycle and pedestrian network, and 30 percent of the land area will be dedicated to green and open spaces to create a relaxed atmosphere, integrated with lively components of the city.

Working hand in hand, QGBC, Qatar's community, professionals, governmental and private sector support the Qatar National vision 2030 for a more sustainable nation.

Engineer Meshal Al Shamari
Director
Qatar Green Building Council



“We are strengthening awareness and adoption of green building practices.”

The UAE is at the forefront in driving sustainable development and green building practices in the region. Emirates Green Building Council, formed in 2006, has been taking the lead in advancing green building principles for protecting the environment and ensuring sustainability.

We have been working across all disciplines to strengthen awareness and adoption of green building best practices, and we are delighted with the on-ground and tangible progress being achieved.

Earlier this year, we set nine priority areas after closely examining the United Nations Sustainable Development Goals and UAE's 2021 Vision to establish how we can further contribute to the global sustainability agenda as well as the UAE's national priorities in an aim of creating a more targeted impact. We see concerted efforts by all stakeholders in promoting sustainable built environments, and we support this through year-round initiatives such as networking events, our Annual MENA Green Building Awards, and our technical programmes such as benchmarking initiatives to identify gaps that, in turn, help stakeholders to improve building efficiency and follow green building practices.

As is clearly reflected in the UAE industry, over the years, there has been a significant increase in the number of voluntary green building certifications, and UAE today ranks among the top 10 countries with the highest number of green buildings under LEED certification.

EmiratesGBC is globally committed in our support of advancement toward net-zero carbon buildings by 2050, with all new buildings set to reach net zero carbon status by 2030.

We are highlighting this commitment at our upcoming flagship event, the seventh Annual EmiratesGBC Congress, to be held under the theme, 'Targeting Zero: a vision for future cities'.

Our priority areas include a rigorous focus on the retrofitting of existing buildings, and special attention to health and wellbeing within built environments. We are dedicated to continuing to partner in setting new benchmarks that drive a green built environment in the UAE and the region.

Saeed Al Abbar
Chairman
Emirates Green Building Council



“We need to inspire the broader market segment to undergo green building certification.”

The Philippines' green building market is growing due mainly to growing client demand and the push brought about by green building and environmental regulations. The Philippine government has established green building policies as mandatory standards for green building at the national and local levels.

At the national level, the Philippine Green Building Code sets the minimum green building requirements for large developments (above 10,000 square metres). At the local level, local governments units are setting their own green building policies, and requiring different levels of green buildings appropriate to their city's capacity and stakeholders' capabilities. Pasig City and Mandaue City, for example, are now requiring BERDE Certification in all public buildings and in planned unit developments (PUDs) such as commercial districts or special economic zones and voluntarily in other areas of their cities. These cities also provided for tax credits/ incentives to promote their green building programmes within their jurisdictions.

While top developers are getting their projects certified under green building rating systems as BERDE and LEED, the challenge remains to have the rest of the market undergo certification. Most developments are being marketed as having adopted green building practices, but not all are certified 'green'. We need to inspire the broader market segment to undergo green building certification because that is the only way for people to know that the building was indeed built with the people and environment in mind.

Christopher De La Cruz
Chief Executive Officer
Philippine Green Building Council



“Hong Kong will record a solid growth in green building development.”

The Hong Kong Green Building Council always strives to promote the standards for and developments of sustainable buildings in Hong Kong. It also raises green building awareness by engaging the general public, the building owners and the industry. BEAM Plus has spearheaded the green building movement in Hong Kong. As of today, a significant milestone has been achieved with more than a thousand projects registered and over 200,000,000 square feet of Gross Floor Area (GFA) has been assessed under the Hong Kong’s own BEAM Plus accreditation scheme.

At the same time, the Hong Kong SAR Government has been actively building up momentum in engaging green building development. Currently, all types of new and existing buildings / premises achieving “Final Bronze” rating or above under BEAM Plus New Buildings, BEAM Plus Existing Buildings and BEAM Plus Interiors are eligible to profits tax deduction. In addition, from the Hong Kong Budget 2018–2019, HK\$800 million funding will be reserved for the installation of renewable energy facilities at government buildings, venues and community facilities. The city will also issue green bonds to expand the local bond market, which will be used to fund “green public works” projects.

All the initiatives are important milestones in the development of new green buildings and retrofitting of existing buildings in Hong Kong. It is expected that Hong Kong, with the combined effort of the Government and the community, will record a solid growth in green building development and energy saving in the near future.

Mr Cheung Hau-wai, SBS
Chairman
Hong Kong Green Building Council



“Plans to design smart and green cities are underway.”

During the last years, the construction industry has picked up from a negative growth of –8.5 percent in 2014 to a 0.3 percent growth in 2016 and a 7.5 percent growth in 2017.

To stimulate the sluggish sector, in 2014, the newly elected government, announced the Smart City Scheme, an enabling framework and a package of very attractive fiscal and non-fiscal incentives to investors for the development of smart “cities” across the island. In the budget speech of 2014, it was noted that “the smart cities will be designed to:

- Be environment friendly
- Generate its own resources in terms of energy and water
- Provide for state of the art connectivity
- Provide smart modern transportation
- And reduce traffic congestion across the island.”

This gave impetus to the green building sector as to fall under the scheme the developments have to show their green features. Existing projects were redesigned through the sustainability prism.

In 2016, a 480-hectare project received the interim BREEAM Communities certification, a first in Africa. Mauritius do not have many certified building projects but it has BREEAM, LEED and Green Star Africa certified buildings.

In 2018, it can be said that all the professionals in the construction industry are well aware of sustainability principles. GBC Mauritius has trained over 100 professionals. The inclusion of these acquired knowledge on building projects is still slow.

The market for green building products is not very developed. At Green Building Council of Mauritius, we are hopeful to see a significant shift as the planned smart cities projects are implemented.

Tony Lee Luen Len
Chairman
Green Building Council of Mauritius



“Green buildings is a concrete climate action.”

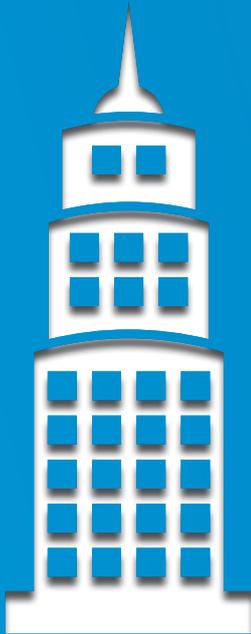
While green building as a movement has cemented itself in the building and construction industry in the past decade with the proliferation of more high performance structures, awareness of green building in the general public is still insufficient. The public is still not knowledgeable enough about the value of green buildings, or of the influence they have to impact their environment through the places they live, work and play in. Simply put, people need to know that green buildings is a concrete climate action.

As the general public grows more cognizant of climate change and its associated environmental issues, there are growing concern and interest on the link between human health and wellbeing to the quality of our green buildings. Studies have shown that green buildings are not only good for the environment but are good for people as well. As we spend most of our time living, working and playing in buildings, the buildings we live in must be buildings we can live with. Health and wellbeing will continue to be a major area of interest in the years to come as the industry moves towards creating greener and healthier places for everyone, everywhere.

The Singapore Green Building Council is at the forefront of the green building movement, advocating for green building design and technology adoption while promulgating the associated benefits of these high performance buildings. Our Live.Work.Play.Green climate action campaign aims to drive greater awareness of green buildings and ingrain sustainability into the public's consciousness.



Tan Swee Yiow
President
Singapore Green Building Council



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Saigon Sports City

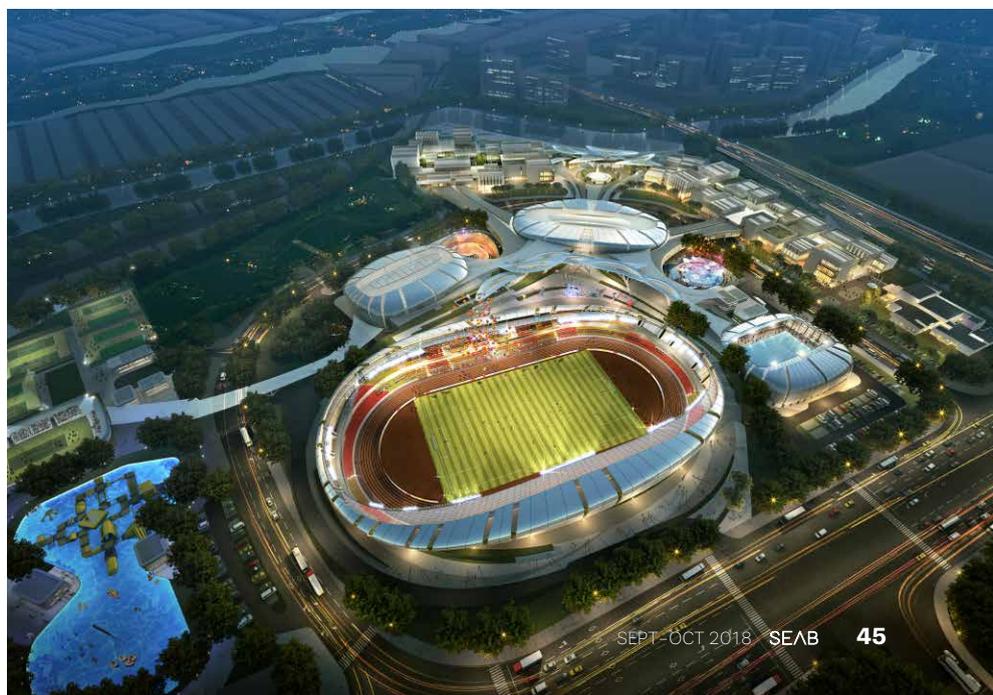
Located in the prime District 2 in Ho Chi Minh City, Vietnam, Saigon Sports City is Vietnam's first one-stop sports-oriented and multi-generational lifestyle hub.

Green Features:

- ✓ Biophilic design principles
- ✓ Natural cross-ventilation throughout the township
- ✓ Generous open spaces between buildings for admission of natural light
- ✓ Lush landscapes
- ✓ Water features with natural filtration

Saigon Sports City is a 64-hectare sports-oriented and lifestyle-centric township that Keppel Urban Solutions is developing in collaboration with Keppel Land. Saigon Sports City seeks to cater to the rising demand for high-quality urban spaces by the growing middle class in Ho Chi Minh City.

When completed, the township will comprise about 4,300 high-quality homes, with comprehensive facilities for sports, entertainment, shopping, dining and iconic features such as a waterfront boulevard and an open public plaza for multi-generational users. Saigon Sports City will adopt biophilic design principles and incorporate natural cross-ventilation throughout the township as well as generous open spaces between buildings for





admission of natural light. Other design components include a linear park, lush landscapes with locally sourced flora and picturesque water features with natural filtration, to create a green and beautiful environment.

Ms Cindy Lim, Managing Director of Keppel Urban Solutions, said, "Leveraging the Keppel Group's more than two decades of experience as the master developer of large scale projects in Asia, we will develop Saigon Sports City into a bustling destination, combining high quality urban living with vibrant and healthy lifestyle concepts."

Saigon Sports City will be driven by innovative enablers for essential services such as smart security and access controls, as well as remote monitoring and control of energy and utilities. Keppel Urban Solutions will integrate the appropriate smart city solutions, leveraging capabilities from within the Keppel Group as well as other best-in-class partners, to deliver convenient lifestyle, transport and other value-adding services to residents and businesses in Saigon Sports City.

Through ongoing data collection and advanced analytics, the design and operations of Saigon Sports City can be scaled and continuously improved, to achieve a liveable, sustainable and digitally-connected township that meets the evolving needs and aspirations of a new generation of urbanites.



PROJECT DATA

Project: Saigon Sports City
Location: Ho Chi Minh City, Vietnam
Developers: Keppel Urban Solutions and Keppel Land
Type: Township
Site Area: 64 hectares
Completion: 2022 (Phase 1)
Photos: © Keppel

"Utilising human-centric designs and relevant smart technologies, we are confident that Saigon Sports City will become a model for other sustainable urban developments in Asia."



- Ms Cindy Lim, Managing Director of Keppel Urban Solutions



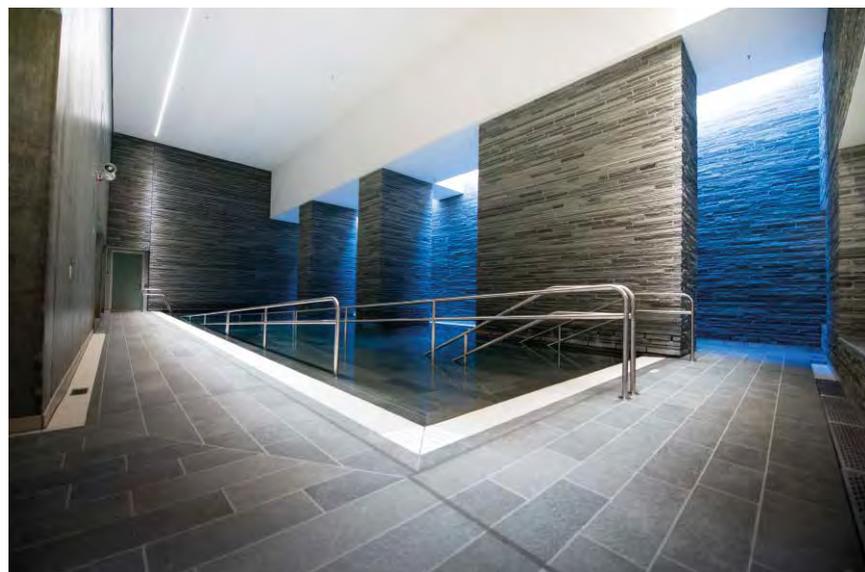
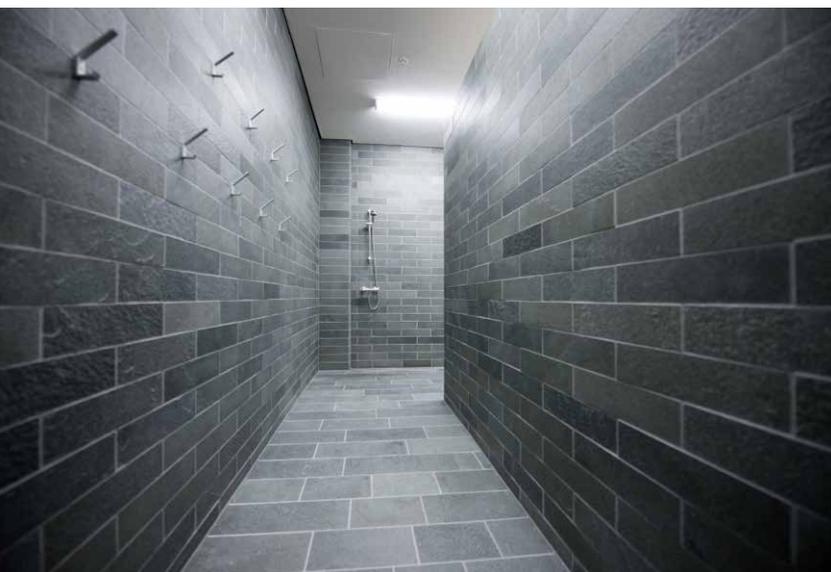
The corridor of the hall was dressed with Alta slate, a local type of porcelain tile, which was installed using ULTRALITE S1.

Haukeland Paediatric Hospital

A new hospital complex, located in Bergen, Norway is designed with Ardesia slabs to enhance the surroundings.

The Haukeland University Hospital in Bergen, Norway, has been extended thanks to the construction of a new department dedicated entirely to paediatric care. Construction of the new building started in 2011 and was completed in 2017 and over the next few years the hospital management is also thinking about adding more wings to the structure.





The bathrooms and showers were waterproofed with MAPELASTIC and ardesia slate was installed with ULTRALITE S1 and ULTRALITE S2.

The client asked the designers to combine all the babies and children's wards in a single unit so that all the patients and treatment areas could be managed more easily. One part of a new building will be reserved for the maternity ward at a later stage. The client also specified that only safe, eco-friendly products should be used: in fact, the building

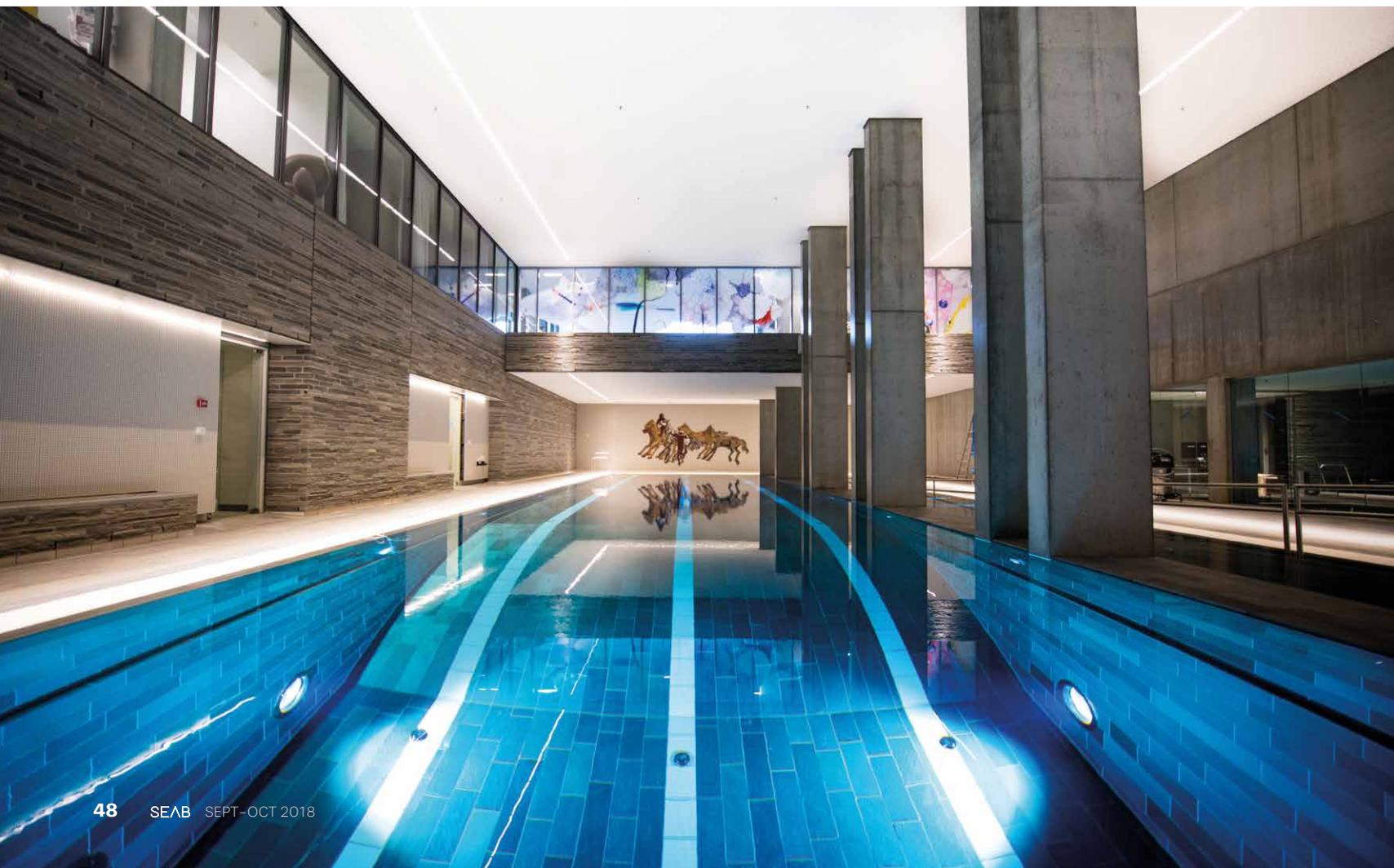
has been awarded Breeam certification (Building Research Establishment Environmental Assessment Method), a European reference protocol for the design, construction and management of sustainable buildings.

Mapei supplied products to build part of the new building, particularly the large reception area where patients are

welcomed to the hospital, the changing rooms, the bathrooms and the three new swimming pools.

The external facades, the inside of the swimming pools and the floors and walls in the reception area, changing rooms and bathrooms were all dressed with Alta slate, a special clay based porcelain tile which can be found in some specific

The area where the swimming pool and baths are located was waterproofed with MAPELASTIC and dressed with Alta slate.





The grout lines were filled with KERACOLOR GG and the joints were sealed with MAPESIL LM and MAPESIL AC.

zones of Norway. This type of stone requires the use of specific, durable adhesives and grouts.

The products chosen for this particular work were CONPLAN ECO R rapid self-levelling mortar to form substrates from 3 to 20 mm thick, CONFIX spray-applied mortar to repair the concrete and MAPEPOXY L epoxy adhesive to repair the cracks. These products are all made and sold in Norway by Mapei AS.

The concrete surfaces were restored with MAPEGROUT T40 thixotropic mortar. Where required, surfaces were waterproofed with MAPELASTIC two-component cementitious mortar, which is particularly suitable for creating highly flexible, protective waterproof coatings on structures subject to cracking.

To install the slabs of ardesia, Mapei Technical Services recommended ULTRALITE S1 one-component, high performance adhesive, while ULTRALITE S2 lightweight cementitious adhesive was the preferred choice for the large format slabs.

The product chosen to fill the grout lines was KERACOLOR GG high-performance, polymer-modified cementitious mortar for grout lines from 4 to 15 mm wide. The expansion joints were sealed with MAPESIL LM and MAPESIL AC.

Mapei Products

Carrying out substrates and repairing concrete: Conplan Eco R*, Confix*, Mapegrout T40, Mapepoxy L*

Waterproofing surfaces: Mapelastic

Installing ardesia: Mapesil AC, Mapesil LM, Keracolor GG, Ultralite S1, Ultralite S2

* These products are manufactured and marketed on the Norwegian market by Mapei AS

Article source: *Realtà Mapei International* no. 65/2017

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

PROJECT DATA

Project: Haukeland Paediatric Hospital
Location: Bergen, Norway
Period of Construction: 2011–2017
Period of Mapei Intervention: 2016–2017
Intervention by Mapei: Supplying products for carrying out and waterproofing substrates and for installing and grouting slate slabs
Project: KHR arkitektur, Studio 4 Arkitekter
Client: Helse Bergen
Works Direction: Lars Petter Smidt
Contractor: Helse-Bergen
Installer Company: Veidekke/Smistad Mur og flis as
Mapei Distributor: Norfloor Bergen
Mapei Coordinator: Viggo Breivte & Kenneth Nilsen (Mapei AS)
Photos: © Mapei



Funan

Building on its legacy as the definitive IT mall in Singapore over the last three decades, the new Funan will go beyond selling IT products to incorporating the tech experience throughout the entire integrated development with lots of urban greenery.

Green Features:

- Office blocks have naturally-ventilated staircase
- 12,000-square-foot food garden and a 4,000-square-foot urban farm
- Rainwater harvesting at the urban farm



The new Funan is located on the site of the former Funan DigitaLife Mall with excellent connectivity, including a direct underpass linking to City Hall MRT interchange station. It is owned by CapitaLand Mall Trust and managed by CapitaLand.

As a new paradigm for live, work and play in Singapore's city centre, Funan is designed to appeal to savvy consumers pursuing quality of life in a socially-conscious and creative environment. The Funan integrated development has a total gross floor area of 887,000 square feet. It comprises a six-storey retail component, a premium Grade A office and a co-living serviced residence, lyf Funan Singapore. The office blocks will feature a naturally ventilated staircase which links all office levels, thereby encouraging an active lifestyle at the workplace and less reliance on elevators.

Featuring a porous street space with multiple access points and gentle slopes, bicycles, wheelchairs and other personal mobility vehicles can enter the building easily, supporting the country's move towards an inclusive and car-lite society. Funan is set to become Singapore's first commercial building to allow cycling through the building. Funan will also offer fast charging electric vehicle stations and a direct connection to City Hall MRT station.

Throughout the property, any change in level is mediated using gentle gradients. All facilities are accessible to wheelchair and pram users, including the development's futsal court and urban greenery. Funan will boast the largest area for urban agriculture in the city with a 12,000-square-foot food garden and a 4,000-square-foot urban farm, where the public can learn more about the origins of their food and 'adopt a plot' to grow their own produce. Rainwater will be harvested at the urban farm. The swimming pool at lyf Funan Singapore will feature steps and a transfer platform with handrail for handicap users. Redefining the future of retail, Funan's infrastructure is enabled by the latest technology, which will transform the shopping experience.

Voice-activated interactive directories are located at escalators and lift lobbies of every level to facilitate wayfinding. NFC technology will also allow transfer of directions from directory to personal smart phones. The property will be guide dog friendly and all levels of the development are accessible via a handicap accessible lift. Accessible parking lots and family parking lots are located close to the lift lobbies to ease access for users. There will be Braille indicators on staircase handrails and child-height handrails at the retail area. With about a year to go before opening in 2019, Funan's trailblazer status as a retail innovation platform has garnered strong interest from retailers.

The design consultant for Funan is Australia-headquartered international architectural firm Woods Bagot, with RSP Architects Planners & Engineers serving as the project architect and consultant. Grant Associates, best known in Singapore for its work on Gardens by the Bay, is Funan's landscape architect.

Funan won the Building and Construction Authority's (BCA) Universal Design (UD) Mark Design GoldPLUS award, the highest accolade for UD for projects under development and BCA's Green Mark (GM) GoldPLUS award this year.



“Highly connected urban space, expressive organic form and rich layered materiality, this is human scaled

architecture...that embodies the spirit of creativity and collaboration that’s at the heart of this remarkable project.”

- Stephen Jones, Director, Woods Bagot

PROJECT DATA

Project: Funan

Location: Singapore

Developer / Owner: CapitaLand Mall Trust

Project Manager: CapitaLand

Architect Firm:

– Design Consultant: Woods Bagot

– Project Architect: RSP Architects Planners & Engineers (Pte) Ltd

– Landscape Architect: Grant Associates

Type: Integrated Development

– A 6-storey retail component (B2 to L4)

– Two 6-storey office blocks (L5 to L10)

– A 9-storey co-living serviced residence (L4 to L12) with 2 levels of basement car park (B3 and B4)

Site Area: 124,457 square feet

Green Building Certificates: Green Mark Gold^{PLUS}, Building and Construction Authority, Singapore

Green Area: 51,300 square feet

Completion: 2019

Photos: © CapitaLand



Marina One

Marina One in the centre of Singapore is ingenhoven architects' largest project, which opened in early 2018.

Green Features:

-  Landscaped area of 37,000 square metres (over 350 different types of plants, including 700 trees)
-  Energy-saving ventilation systems
-  External solar screening devices
-  Glazing that reduces solar radiation into the building

As an international role model for living and working, Marina One makes an innovative contribution to the discourse on mega-cities, especially in tropical regions, which, in the context of increasing population and climate change, face enormous challenges. The high-density building complex with its mix of uses extends to over 400,000 square metres and, with its group of four high-rise buildings, defines the "Green Heart" – a public space extending over several stories. This three-dimensional green oasis reflects the diversity of tropical flora.

The core concept for "Marina One", which consists of a group of four high-rise buildings, is based on a shared central space – the "Green Heart" – which was designed by ingenhoven architects in close cooperation with landscape architects Gustafson Porter + Bowman. The interaction between the

geometry of the buildings and the garden facilitates natural ventilation and generates an agreeable microclimate. The largest public landscaped area in the Marina Bay Central Business District of Singapore provides living space close to nature, the usable area of which is 125 percent of the original site surface area.

Marina One comprises four high-rise buildings, which accommodate office, residential and retail functions and have been rated under the Green Mark Platinum and LEED Platinum schemes. The two office towers each have a usable floor area of 175,000 square metres; the two residential towers provide 1,042 city apartments and penthouses for about 3,000 residents.

The organic shape of the building complex with its iconic louvres, and the generous planting, contribute to an improvement of the microclimate and increase biodiversity. Inspired by Asian



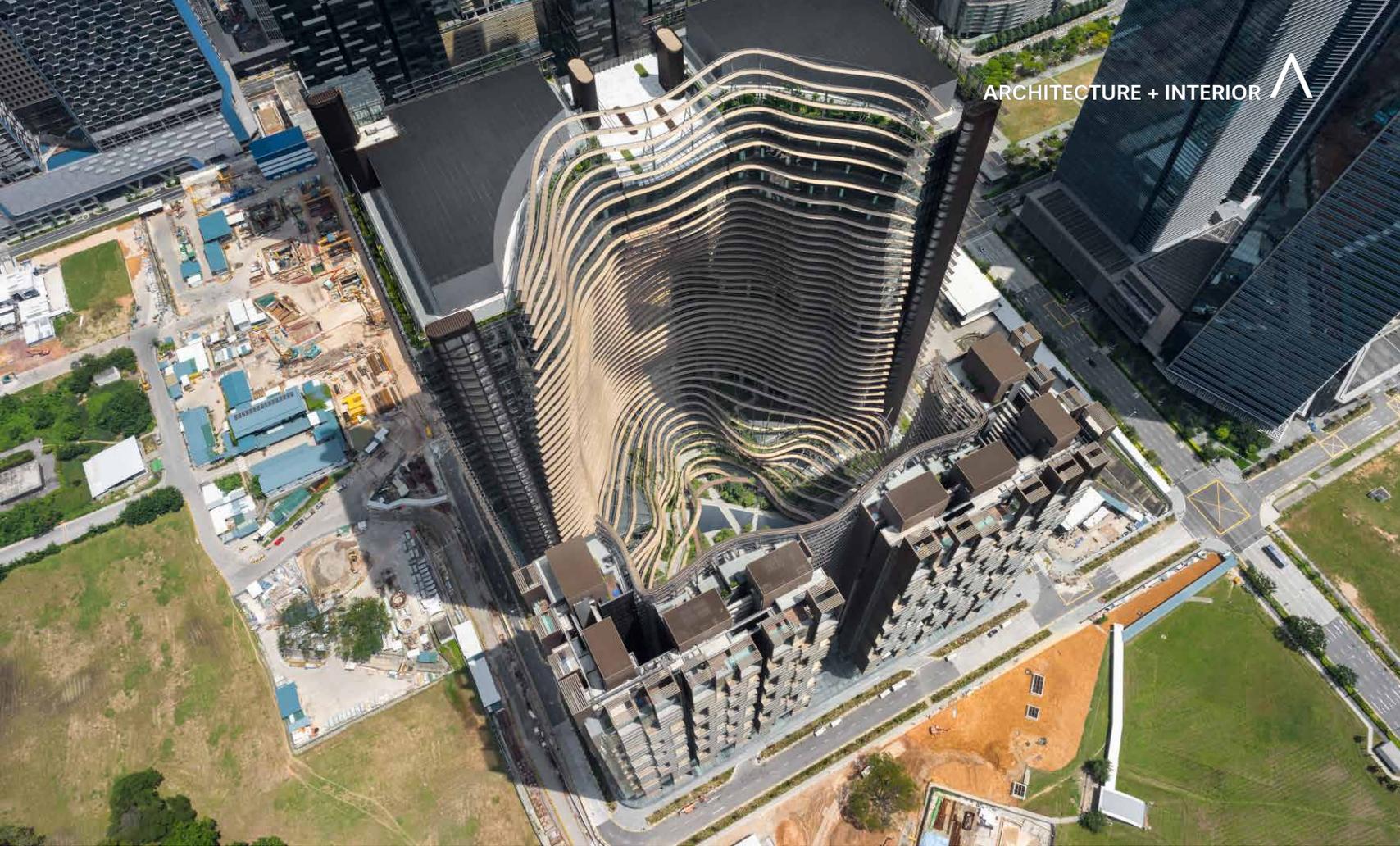
Photo: © ingenhoven architects / Darren Soh

"You have to remember that Singapore would be a jungle if it weren't for the city. Maybe – with Marina One – we could restore a little bit of it."

- **Christoph Ingenhoven**, Founder and Principal, ingenhoven architects



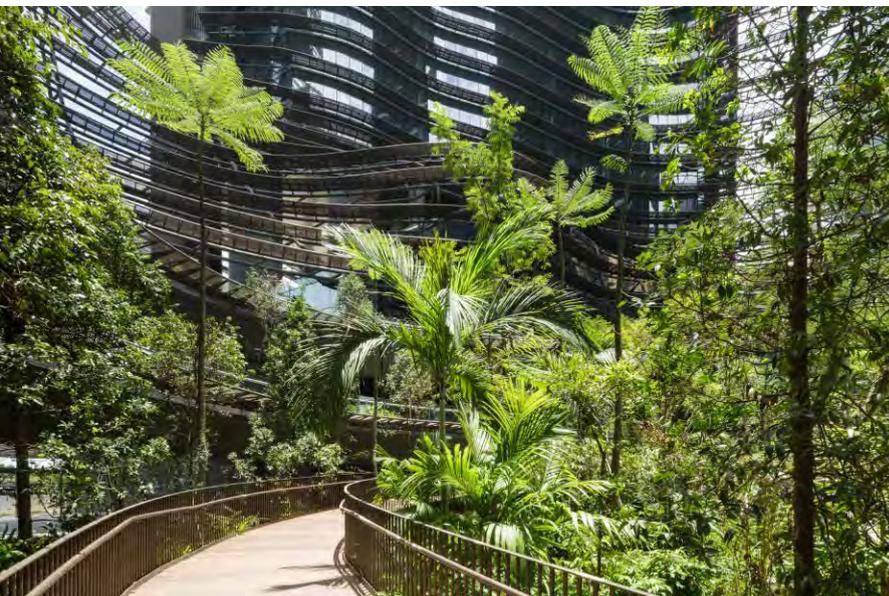
Photo: © Jim Rakete



paddy field terraces, the green centre formed by the four towers – with its multi-storey three-dimensional gardens – reflects the diversity of tropical flora and creates a new habitat. This “Green Heart” comprises over 350 different types of plants, including 700 trees, on a landscaped area of 37,000 square metres. Various types of animal become part of this biological diversity. Inspired by the natural climate changes at the different vertical levels of a rainforest, the landscape architecture mimics a green valley with its variations in climate according to level. Restaurants and cafés, retail areas, a fitness club, pool, supermarket, food court, and events areas on the different open terraces not only provide products and services

to the residents, office workers, and visitors – they also create a place for social interaction.

The compact and efficient layout design is complemented by energy-saving ventilation systems, highly effective external solar screening devices, and glazing that reduces solar radiation into the building. Direct connections to four of Singapore’s six mass rapid transport lines, bus stops, bicycle parking facilities, and electro-mobile charging stations ensure that exhaust emissions caused by private transport are significantly reduced. The colour scheme of the interior and the building façade features calm and earthy bronze shades in order to support the harmonious atmosphere.



PROJECT DATA

Project: Marina One
Location: Singapore
Client: M+S Pte. Ltd.
Design Architect: ingenhoven architects, Düsseldorf, Germany / ingenhoven LLP, Singapore
Project Architect: architects61, Singapore
Collaborating Landscape Architect: ICN Design International Pte. Ltd., Singapore
Type: Retail, Office and Residential
Site Area: 26,200 square metres
Green Building Certificates: LEED Platinum, Green Mark Platinum
Green Area: 37,000 square metres
Completion: End of 2017
Photo credit: ©ingenhoven architects / Photos: HGEsch



Unilever Headquarters

Aedas-designed Unilever Headquarters in Jakarta is located in the BSD Green Office Park, the country's first green office district, which was also master-planned by Aedas.

Green Features:

- ✓ Use of recycled teak timber
- ✓ Curtain wall system maximises daylight penetration
- ✓ Facade clad with grey aluminum blade louvers of varying depth to provide shading and reduce heat gain
- ✓ Outdoor green pockets
- ✓ Outdoor landscaped decks and rooftop

The Unilever Headquarters is designed with the concept to support the spirit of community, collaboration, engagement and agility. Referenced to the traditional village planning in Indonesia, it has a 'square', 'main roads', and 'streets' to create a sense of community. The planning is focused on engaging group and individual work into zones to induce collaboration while maintaining privacy. The top four floors are office spaces with break-out areas; while the ground floor is dedicated to public and shared facilities. Surrounding the central, light-filled atrium that serves as a large event space are common facilities including a mosque, staff dining area, day care centre, fitness centre, beauty salon and multi-purpose hall.

All community spaces are well connected to encourage interaction and embrace diversity. Aedas Interiors and Aedas Graphics used Indonesian batik fabrics, recycled teak timber,

furniture and imagery of Indonesia throughout the headquarters to create a sense of place.

The building curtain wall system maximises daylight penetration. The façade is clad with grey aluminum blade louvers of varying depth to provide shading and reduce heat gain. There are no enclosed offices in order to provide best access to natural light and views for all staff. Enclosed meeting rooms are placed around the core.

The indentations on the facade create indoor and outdoor green pockets. Each of the four building wings are connected by piazzas which are located where the building is indented. There are also outdoor landscaped decks and rooftop for staff and guests to enjoy.

This is a uniquely Indonesia headquarters building that incorporates three key elements of Indonesian culture – community, diversity and nature – into the design.





"This Unilever Headquarters in Indonesia houses all employees originally from four separate offices in Jakarta under one roof. Aedas architectural and interior designs embody the global company's vision, values and European heritage within the Indonesian context."

- **Steven Thor**, Executive Director of Aedas and Project Design Director (Architecture)



PROJECT DATA

Project: Unilever Headquarters
Location: Jakarta, Indonesia
Client: PT. Unilever Indonesia
Design and Project Architect: Aedas
Type: Commercial
Gross Floor Area: 50,477 square metres
Completion: 2017
Photos: © Aedas, © Aedas Interiors and © Aedas Graphics

Forest City Malaysia

Strategically located adjacent to the economic powerhouse of Singapore, Forest City Malaysia is a new global cluster of commerce and culture, master planned by Sasaki.

Green Features:

-  4 million square metre rooftop landscape
-  Stormwater management
-  Green walls & sky gardens





Designed to cultivate a live/work lifestyle, it is comprised of financial institutions, technology and biotech research facilities, and a variety of creative industries that will establish an innovative and sustainable employment base providing an estimated 220,000 new jobs in southern Malaysia.

The development's approach to city-building makes Forest City an ideal destination for an emerging generation of Malaysians that seek to live in a compact and walkable mixed-use metropolis with a variety of civic, cultural, and recreational amenities set within a lush tropical landscape. With multiple modes of public transportation, Forest City will be connected to the world.

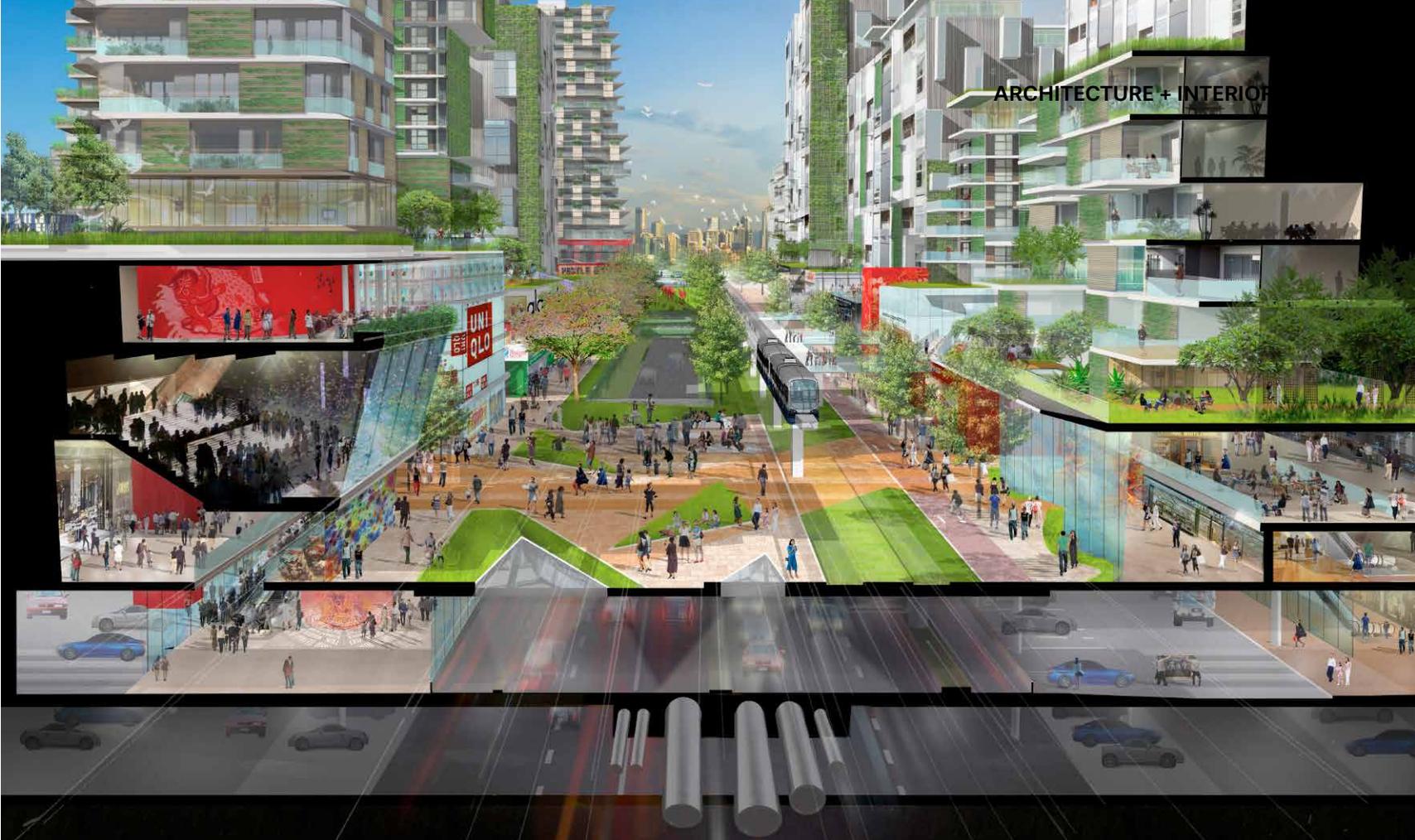
Sasaki's master plan for Forest City seeks to establish a symbiotic relationship between development and the natural environment. Organised around the Seagrass Preserve - a critical ecological feature of the region - Forest City embraces this unique marine sanctuary with a contiguous network of complementary waterfront landscapes that offer opportunities to learn about and protect the region's ecosystems. With 31.4 linear kilometres of coastline, edges are designed to mimic naturally occurring features of Malaysia's coastal ecosystems, including tidal pools and

shallow bays that provide critical marine habitat and support local fisheries. The most essential of these is Forest City's restored mangroves, which provide over ten linear kilometres of essential habitat and help to improve regional water quality.

The master plan for Forest City is organised to protect endangered seagrass beds through the creation of a preservation zone that restricts motorised boats, limits human access, and creates opportunities for ongoing monitoring, research, and conservation of this vital landscape. Forest City's proposed mangrove habitat zones will help to resupply some of the ecosystem lost during the past 70 years of urban expansion in Singapore and Southern Malaysia.

Forest City's future success also relies on a highly efficient transportation system that promotes a compact and walkable urban environment. Density and civic uses are organised around transit centres, ensuring that over 80 percent of the development is situated within a 10-minute walk of public transportation.

The system is organised with a multi-layered approach designed to prioritise pedestrian connections. Infrastructure related to vehicular traffic is located at the ground level, while a contiguous landscape creates public space adjacent to transit stations at the top level of



ARCHITECTURE + INTERIOR

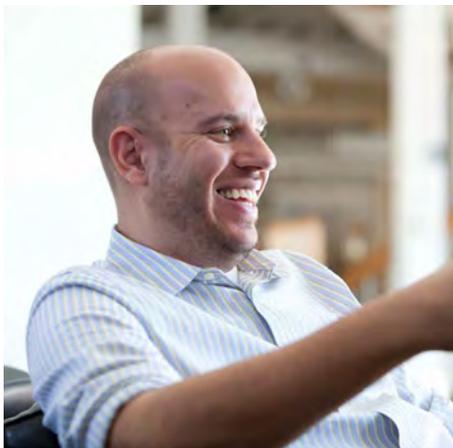
the infrastructure podium. This approach envisions a new paradigm for the public realm – a 4 million square metre, contiguous rooftop landscape that links all development parcels, accommodates stormwater, re-establishes native habitat zones, filters runoff, and provides recreational opportunities in an entirely automobile-free experience.

Green walls, sky gardens integrated into the architecture of the city, and rooftop landscapes on individual buildings create yet another dimension of vertical open space that allow humans and nature to coexist at new heights.

Country Garden began construction in 2014 and the entire project is expected to take over 20 years to reach completion.

PROJECT DATA

Project: Forest City Malaysia
Location: Iskandar Development Region, Malaysia
Client: Country Garden Pacificview Sdn Bhd
Original overall master planner: Sasaki
Type: Smart and green city
Site area: 1,386 hectares
Completion: About 20 years
Photos: © Sasaki



“Forest City is a result of the region’s remarkable growth. Greater connectivity between Forest City and Singapore will further enhance the symbiotic relationship of cultures, economies, and the environment in this exceptionally diverse part of the world.”

- **Michael Grove**, Principal and Chair of Landscape Architecture, Civil Engineering, and Ecology, Sasaki

Olympic Vanke Centre

Olympic Vanke Centre will be a high-end, open, multi-functional landmark architecture at the heart of the 2022 Asian Games Village in Hangzhou.

Green Features:

- ✓ Vast green area in the development
- ✓ Roof garden adds beauty and improves air quality
- ✓ Cascading outdoor terraces with plenty of outdoor space
- ✓ Tower facades use contrasting systems of passive sun-shading to reduce indoor heat gain
- ✓ External supergrid on curtain wall regulates glaring to neighbouring buildings
- ✓ Horizontally slicing timber planes of the window wall reflect light
- ✓ Individual dedicated air-conditioning systems for tenant units encourages users to adopt energy saving practices





LWK & Partners (HK) Ltd. (LWK) has successfully reinterpreted the podium-tower typology with Olympic Vanke Centre. Led by LWK Director Ferdinand Cheung, the team created this innovative working hub, which promotes interactions, active engagement and sustainability.

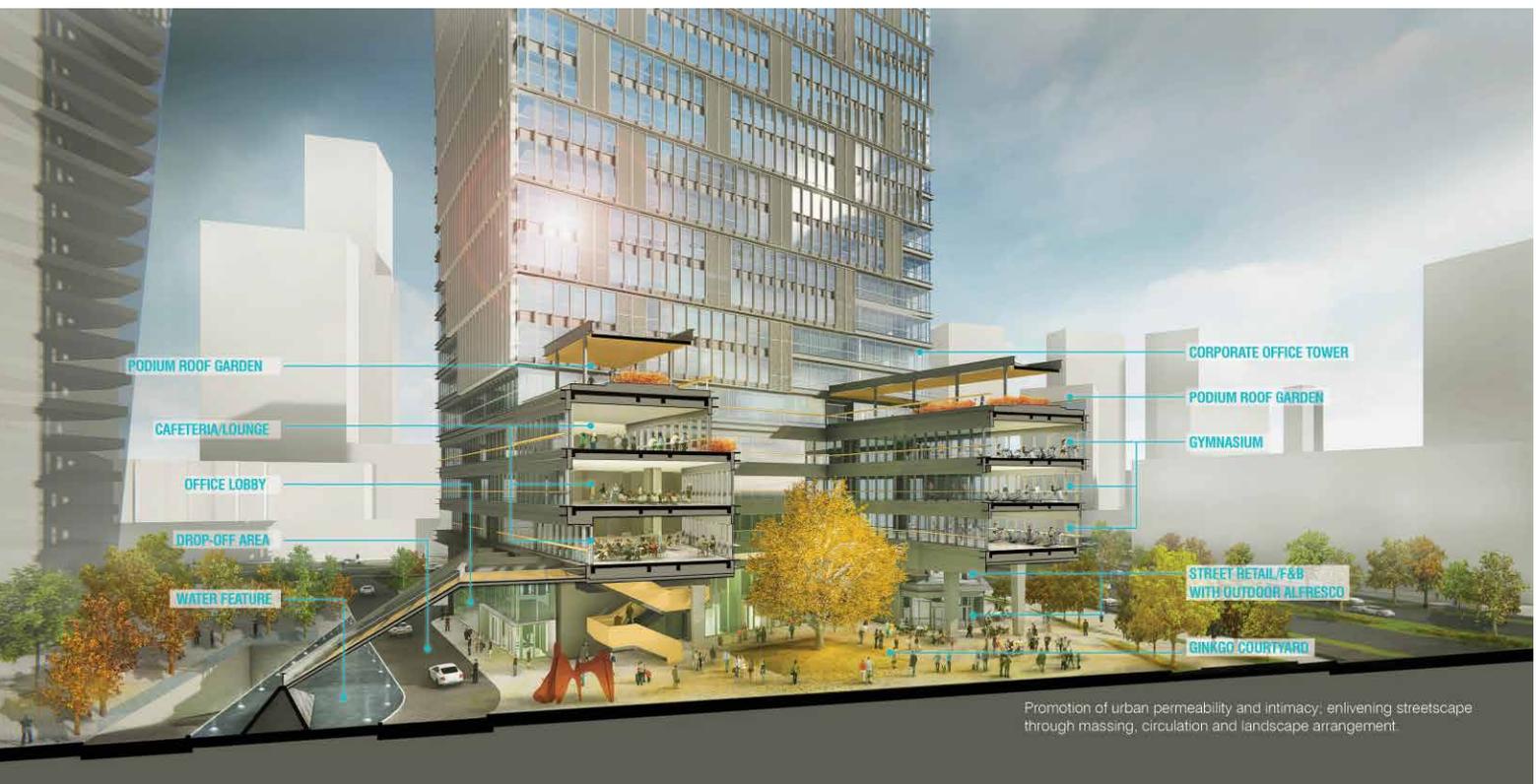
Located in the heart of the Qianjiang Century City district, a Central Business District (CBD) of Hangzhou at the door of the 2022 Asian Games Village, Olympic Vanke Centre has a site area of 13,969 square metres, and a gross floor area of 95,521 square metres. The development includes two office towers, a shared podium housing food and beverages (F&Bs) and other amenities, and three underground levels used as a car park, complete with an integrated servicing area. The development is expected to be completed in 2021.

Zooming in on the buildings, the taller tower of the project is expected to house corporate tenants, while the lower tower features numerous cubicle work stations with a generous common area intended as a breeding ground for start-ups and entrepreneurs. The podium includes two levels of F&Bs and other connect amenities, such as a gymnasium, cafeteria and entertainment spaces. The programmatic stacking blurs the work-life distinction, providing space for the formative generation to enjoy a smarter lifestyle. Zooming out to take a broader view of the site, after identifying major pedestrian access routes both from the

adjacent metro exits and neighbouring developments, vehicular access to the buildings has been grouped at the rear side. This is done to enhance pedestrian safety and hence higher walkability in the hopes of promoting urban permeability.

In terms of design concept, pivoted around a landscaped void at the very heart of the site, the lifted podium rotates and shears horizontally to open up cascading outdoor terraces with a spectrum of degree of public-ness. The 'unscrewing' force turns parasitic to erode the main tower up to its crown, chipping off the massing to unveil a roof terrace dedicating to the city's spectacles.

The convergence of the two towers at the lifted podium is highlighted by the continuous deep-setting spandrel fins, which portraits sharp shadows dramatised by the changing sun angle relative to the spiralling building form. Continuity of outdoor space allows free movement of air and visual connection on plan and section; as well as encouraging human activities to spill out, expand and appropriate. The facade of the two towers employs contrasting systems of passive sun-shading to limit direct insolation, which can, in turn, lower interior heat gain. The external supergrid of the curtain wall enclosing the higher tower regulates the oblique glaring nuisance to neighbouring traffic and buildings, whereas the horizontally slicing timber planes of the window wall enclosing the lower tower mellowly reflect light that exudes a natural and living quality.



Moreover, each tenant unit are equipped with dedicated air-conditioning systems. Individual temperature control allows tenants to optimise their indoor environment to their best comfort, and added incentive for energy saving practices to promote environmental awareness.

Situated in an expansive new development area still searching for an identity, the project seeks to create an oasis to mitigate the blandness of the surroundings. The plant-lined pedestrian zone compresses to funnel the walk flow into the central courtyard. Focal emphasis is afforded to a locally sourced ginkgo tree, blotting the courtyard space with its golden leaves at season's call. A semi-public podium roof garden serves as a bridging leisure space between the two office towers, promoting symbiosis and creating networking occasions for different building users.

PROJECT DATA

Project: Olympic Vanke Centre
Location: Hangzhou, China
Client: Vanke Hangzhou
Architect Firm: LWK & Partners (HK) Ltd.
Type: Mixed-use development
Gross Floor Area: 95,521 square metres
Completion: 2021
Photos: © LWK & Partners (HK) Ltd.



“Olympic Vanke Centre will be a high-end, open, multi-functional landmark architecture and a multi-dimensional complex that bears the Olympic image while embracing nature.”

- Mr Ferdinand Cheung, LWK Director and Principal Architect of Olympic Vanke Centre



Bamboo Sports Hall for Panyaden International School

Chiangmai Life Architects' Bamboo Sports Hall for Panyaden International School combines modern organic design, 21st century engineering and a natural material – bamboo.

Green Features:

- ✔ Use of bamboo creates a positive carbon footprint as bamboo absorbs carbon during its growth
- ✔ Bamboo enables a cool and pleasant climate all year round
- ✔ The design maximizes natural ventilation and light
- ✔ The new structure integrates with the existing earthen and bamboo buildings of the school and reflects the natural hilly landscape of the area

The design was based on the lotus flower as Panyaden International School is in Thailand and uses Buddhist teachings to infuse values into its academic curriculum and teach the underlying mechanisms of the human mind.

The brief was to build a hall that should be big enough to hold the projected capacity of 300 students, but still smoothly integrates with the previous earthen and bamboo buildings of the school as well as the natural hilly landscape of the area. It should provide modern sports facilities and use only bamboo to maintain the low carbon footprint and the "Green School" mission of Panyaden.

The hall covers an area of 782 square metres and hosts futsal, basketball, volleyball and badminton courts, as well as a stage that can be lifted automatically. The backdrop of the stage is the front wall of a storage room for sports and drama equipment. On both long sides balconies provide space for parents and other visitors to observe sporting events or shows.

The design and material enable a cool and pleasant climate all year round through natural ventilation and insulation. At the same time, the exposed bamboo structure is a feast to the eye and an exhibition of masterly handicraft.

The hall was designed with the help of two independent





engineers to modern safety standards of loads, shear forces etc. to withstand the local high-speed winds, earthquakes and all other natural forces.

The innovative structural design is based on newly developed prefabricated bamboo trusses with a span of over 17 metres without steel reinforcements or connections. These trusses were prebuilt on site and lifted into position with the help of a crane.

Panyaden's Sports Hall's carbon footprint is zero. The bamboo used absorbed carbon to a much higher extent than the carbon emitted during treatment, transport and construction.

The bamboo was all well selected for age and treated with borax salt. No toxic chemicals were involved in the treatment process. The life span of the bamboo hall is expected to be at least 50 years.



PROJECT DATA

Project: Bamboo Sports Hall for

Panyaden International School

Location: Chiang Mai, Thailand

Client: Panyaden International School

Architect Firm: Chiangmai Life Architects

Type: Educational building

Hall Area: 782 square metres

Completion: 2017

Photos: © Chiangmai Life Architects



"The design was inspired by the lotus flower as well as the hilly background of the area. The school's teaching philosophy is influenced by the Buddhist teachings and lotus flower is a symbol for peace and perseverance. Flowing organic forms help with all functions like ventilation and bringing in light and at the same time smoothly integrate the building in its environments, strengthening the whole place instead of trying to stick out by itself."

- Markus Roselieb, Principal, Chiangmai Life Architects

CIBIS Tower Nine

CIBIS Tower Nine, located in Jakarta, has an effective, sustainable building design.

Green Features:

- Green roof, which reduces stormwater run-off and ambient temperatures
- Rainwater management systems
- A lot of greenery



CIBIS Tower Nine was completed in October 2016. It is the first building to be delivered at CIBIS Business Park in Indonesia. Designed by Broadway Malyan, it comprises 54,800 square metres of office and ground level retail space and includes the largest Grade A space available in Jakarta, with floor plates of 4,000 square metres.

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

A large focus of the design has been on the quality of the public realm and its role in encouraging people to want to work at the site. Visitors to Tower Nine will pass a reflective pool and bespoke artworks at the main drop-off area. Numerous trees, grasses and bushes add greenery to the site. Parking is underground and high quality paving ensures that the street level is pedestrian friendly.

As well as designing Tower Nine, Broadway Malyan is responsible for the full site masterplan. It comprises nine towers organised around a central square across 12-hectares. The aim is to create a business village that is both Indonesian and international in character, and adds high quality business space to the city.

Since the completion of Tower Nine, Broadway Malyan has been appointed to design the remaining eight towers on the site. This will provide further office space as well as serviced apartments, conference facilities, retail and leisure units.



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

- Ian Simpson, Board Director and APAC Chairman, Broadway Malyan



PROJECT DATA

Project: CIBIS Tower Nine
Location: Jakarta, Indonesia
Client: Pt Bhumyaka Sekawan
Architect Firm: Broadway Malyan
Type: Workplace
Site Area: 54,800 square metres
Green Certificate: LEED Platinum
Completion: 2016
Photos: © Broadway Malyan

Century Square

Century Square shopping mall in Tampines, Singapore recently reopened after a major facelift. Designed with sustainable features, the mall offers a new retail experience for shoppers of all ages. ebm-papst SEA Pte. Ltd., was proud to be associated with this project with the supply of EC fans in their new ventilation system for the mall's cinema and fresh air pre-cooled units (PAUs).

Photo: © Century Square





Photo: © Century Square

Century Square, which draws an average of around a million visitors a month, recently completed its refurbishment in the second quarter of 2018. The major makeover has brought a refreshing look to the bustling mall.

One of the refurbishment works included the replacement of the ventilation system for the cinema within the mall. The new ventilation system includes 24 innovative GreenTech EC fans from ebm-papst, installed in the six new Air Handling Units (AHU) designated for the cinema arranged in a FanGrid configuration.

Prior to the refurbishment, the mall experienced high maintenance and operational costs of the existing AHUs. The new set-up enables the mall to significantly lower energy consumption and minimise maintenance costs. Beyond that, overall noise level and vibration levels also decreased

significantly, bringing about improved cinema operations and customer experience.

An additional benefit of the newly installed FanGrid is the built-in redundancy that ensures cooling even in an unlikely event of a fan fault. In this situation, the remaining fans in the FanGrid will increase their air performance to compensate for the loss.

Last but not least, all the fans are directly connected to the building management system via the digital interface providing enhanced information and control functions to the facility management team.

All in all, the EC FanGrids installed in the AHUs and PAUs is another component that contributed to Century Square's achievement of the BCA Green Mark Platinum award for Existing Non-Residential Buildings (GM:ENRB 2017).



PROJECT DATA

Project: Refurbishment of Century Square
Location: Tampines, Singapore
Client: AsiaMalls Management Pte Ltd
Architect Firm: DCA Architects Pte Ltd
Type: Shopping mall
Site Area: 30,400 square metres
Product from ebm-papst: Supply of 24 innovative GreenTech EC fans installed in the six new Air Handling Units (AHU)
Site of application: Cinema
Green Certificates: BCA Green Mark Platinum award
Period of Renovation: September 2017 to June 2018

Photo: © ebm-papst Southeast Asia



Kennedy Town Swimming Pool

The second and final phase of the Kennedy Town Swimming Pool in Hong Kong opened on 7 February 2017. Shaped like a shell, the futuristic building is designed by Farrells, an internationally recognised architect planner.



The second phase includes two new indoor heated pools, measuring 50 and 25 metres' length respectively, a jacuzzi and outdoor garden. The swimming pool's first phase, comprising a 50 metre outdoor pool and a smaller outdoor leisure pool, opened to the public in May 2011. Both offer magnificent views of Victoria Harbour and Belcher Bay Park. The swimming pool's completion is the capstone of the Kennedy Town MTR station project. The original site chosen for Kennedy Town Station was the Forbes Street Playground. But construction would affect a number of 120-year-old Banyan trees growing on historic stone walls. To protect the trees, the station box was shifted eastward, onto Smithfield and the site of the former Kennedy Town Swimming Pool.

A new pool had to be opened before the existing one could



be demolished. The site chosen was a surface car park that boasted an uninterrupted sea view but had lain derelict since the land was reclaimed in the 1990s. To draw residents to this neglected corner of an otherwise vibrant neighbourhood, the site demanded a memorable icon.

During construction of the MTR West Island Line, the site adjacent to the first phase of the swimming pool was home to a shaft for the removal of underground spoil. After the railway line opened in 2014, construction on the pool's second phase began. The final state of the project opened in February 2017.

Architecture of the building

Built on a derelict waterfront car park, the Kennedy Town Swimming Pool owes its distinctive shape to the unique triangular site. Inspired by a shell, the building addresses the experience of arrival to Kennedy Town from the east, serving as an icon for the community. The low-lying form of the building respects the panoramic views that nearby residents enjoyed prior to the development and draws inspiration from its proximity to the harbour. The matte finish cladding systems were specifically chosen to reduce disruptive reflections.

The shape of the sweeping zinc roof responds to the building's context: the orientation of the outdoor pool maximises the view of Victoria Harbour and the outlying islands, while shielding swimmers from the noise of the main bus and tram

routes to the east. Natural zinc's self-healing properties and uniform ultimate patina was deemed appropriate for a building constructed in two phases with a six year gap in between.

Lightweight, long spans, transparency, natural light and excellent performance against solar gain were key criteria in the selection of materials for window walls and the roof over the indoor pool. Laminated glass with a high performance PVB layer was chosen for window walls while insulated PTFE membrane was used for the roof skylight, flooding the indoor pool hall with pleasant, diffuse natural light. Operable windows allow for natural ventilation of indoor spaces.

The new Kennedy Town Swimming Pool has won many awards and citations including Large Project of the Year 2016, awarded by the New Engineering Contract (NEC) of the UK's Institution of Civil Engineers.

PROJECT DATA

Project: Kennedy Town Swimming Pool

Location: Hong Kong

Client: MTR Corporation

End User: Leisure and Cultural Services Department (HK Government)

Architect Firm: Farrells

Phase 1 Accommodation (Outdoor Pools):

- Outdoor pool (50-metre)
- Outdoor children's leisure pool
- Jacuzzi
- Offices
- Entrance hall
- Changing rooms
- Temporary accommodation (lifeguard rooms, storage)

Phase 2 Accommodation (Indoor Pools):

- Indoor secondary pool (50-metre)
- Indoor training pool (25-metre)
- Jacuzzi
- Outdoor sitting-out area
- Decanting of temporary uses to permanent accommodation

Gross Floor Area: 11,782 square metres

Opening Dates:

- 11 May 2011 (Phase 1)
- 7 February 2017 (Phase 2)

Photos: © Farrells





4th Berliner Flussbad Cup. Photo: © Annette Hauschild / OSTKREUZ Agency

The Flussbad Berlin project

Flussbad Berlin is an urban development project that seeks to transform a section of the Spree Canal in the heart of Berlin into a clean and accessible body of water for the general public to use in new and exciting ways.

The non-profit Flussbad Berlin Association is responsible for promoting and further developing the project on a 1.8 kilometre stretch of the Spree Canal along Museum Island between Fischerinsel and Bode Museum. The project involves a park landscape, an extensive natural plant filter and an 840-metre natural bathing area. The Flussbad will give Berliners the opportunity to enjoy a prominent slice of the inner-city Spree, which has been too polluted for swimming for a good part of the last century. In other words, a largely unused body of water officially designated as a federal waterway will be "taken back" by the residents of Berlin and become a public, non-commercial recreational site for inhabitants and visitors alike.

The project divides the Spree Canal into three sections, each with its own unique usage, atmosphere and function. The upper canal section at Fischerinsel will be redesigned as an ecological regeneration area for flora and fauna. The middle section of the Flussbad situated between Gertraudenbrücke and the existing weir at the Foreign Office will clean the river – which is polluted by discharges from the combined sewer system – in an effective and ecological way using a plant filter. In the final section of the Flussbad between the Foreign Office and the Bode Museum, an 840-metre stretch of naturally filtered water will be made available to the public as an open ecological resource in the heart of the city. The Flussbad Berlin Association favours the installation



of several decentralised water-access areas: at the ESMT Berlin, across from the Bode Museum and in front of the Humboldt Forum. Each of these areas would have its own unique character, scope and function, thus also requiring individual measures to realise them.

By inviting Berliners and visitors alike to relax and have a swim, the Flussbad creates an area for all social groups to enjoy the river setting in their everyday lives while also complementing the world-famous museums and historical buildings that surround it. Indeed, by introducing a "social element", the project helps to ensure that Berlin's centre remains vibrant and relevant to its own inhabitants. By recreating a direct lifeline to the Spree River, it brings Berliners back into the centre of their city.

Museum Island is a UNESCO Cultural Heritage Site and home to world-famous museums and historical structures. When the Flussbad comes into being on the shores of the island, it will create a space devoted to the community; a place where people can experience first-hand the benefits of ecological and sustainable urban development. In this capacity, the project acts as a salient embodiment of one of the most important social

themes and challenges facing the world today. In fact, the Flussbad began having an impact even when it was still in the planning stages; today it is seen as a role model and a ray of hope for work being done on innovative, modern and sustainable urban development far beyond Germany's borders. The Flussbad has long since become a tangible social utopia and a project that emboldens others to take similar initiatives.

The Flussbad Berlin project is the brainchild of brothers Jan und Tim Edler, both of whom are architects, artists and co-founders of realities:united. In 1998, critics dismissed the Flussbad as a utopian fantasy. Since then, however, it has emerged as a concrete urban project and two-time winner of the prominent international "Holcim Award for Sustainable Construction". In 2014, the Flussbad Berlin was granted a total of €4 million in development funding by the German Federal Government and the State of Berlin as part of their "National Urban Development Projects" programme. The Flussbad initiators have set their sights on completing the project by 2025, which would mark 100 years since the closing of the last inner-city bathing area in Berlin due to poor water quality.

4th Berliner Flussbad Cup. Photo: © Annette Hauschild / Agentur OSTKREUZ



LOOKING BEYOND THE SHORES OF SINGAPORE



Photo: © LOOK Architects

The 2018 President's Design Award 2018 announced nine recipients in the Design of the year award category and four of them were architectural projects. In this issue, we bring you an interview with one of them, LOOK Architects, who received the award for their Fuzhou Jin Niu Shan Trans-Urban Connector project in China. The Connector or Fudao is a 19 kilometres elevated pedestrian walkway system that weaves through the hillside forests of Jinniushan in Fuzhou, China. The team of LOOK Architects shares more about how they designed the Fudao and how they met and overcame the challenges.

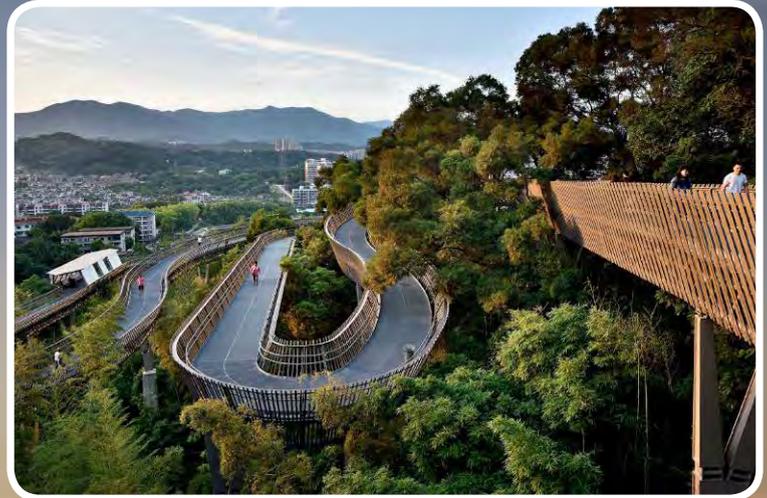


Photo: © LOOK Architects

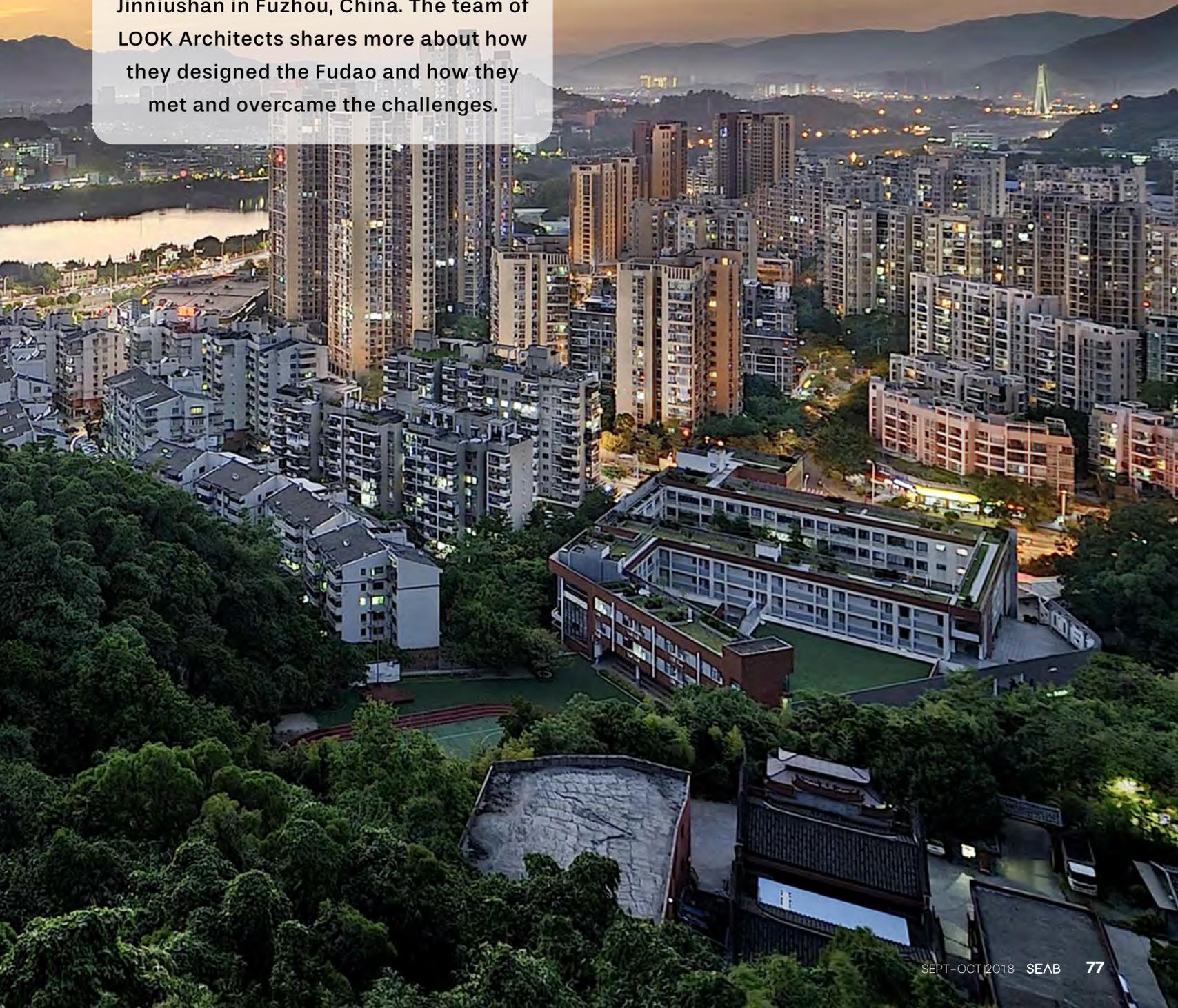




Photo: © LOOK Architects



Photo: © LOOK Architects

SEAB: The China Fuzhou Jin Niu Shan Trans-Urban Connector has won the 2018 President*s Design Award. Heartiest congratulations to the team of LOOK Architects. How does it feel to win this prestigious award?

LOOK Architects: We feel encouraged to realise an overseas project, which has had a large scale cultural impact.

SEAB: How did LOOK Architects get involved in this project?

LOOK Architects: Fuzhou Government had identified us to design the project due to our expertise, past experience in walkway design and our urban design track record in China.

SEAB: Can you briefly describe to us the project in terms of its size and features?

LOOK Architects: The Trans-Urban Connector crosses the Jinniushan Mountain in Fuzhou and connects two major waterbodies, the Minjiang River in the south, and West Lake in the north. The connector improves public accessibility to the natural hinterland of the city and revitalises the city through a few major entrance nodes featuring socially vibrant spaces.

SEAB: The project is situated in Fuzhou, one of the greenest cities in China. How did you integrate the design of this connector with the green image of the city?

LOOK Architects: Our design minimises the construction footprint in order to retain the existing greenery on the site. The use of lightweight prefabricated, long span steel components in the construction allowed us to work within a 2 metres width zone around the walkway minimising damage to the existing ecosystem.

SEAB: What was the greatest challenge of conceptualising, designing and finally executing this project?

LOOK Architects: The greatest challenge we faced was to work at the speed demanded by China projects, in order to conceptualise and execute the project within an extremely compact time frame.

SEAB: What's next for LOOK Architects?

LOOK Architects: We are well poised to undertake challenging urban design projects globally.



Mr Look Boon Gee (left), Founder & Managing Director, LOOK Architects Pte Ltd with his colleagues.



Photo: © LOOK Architects

About Fudao

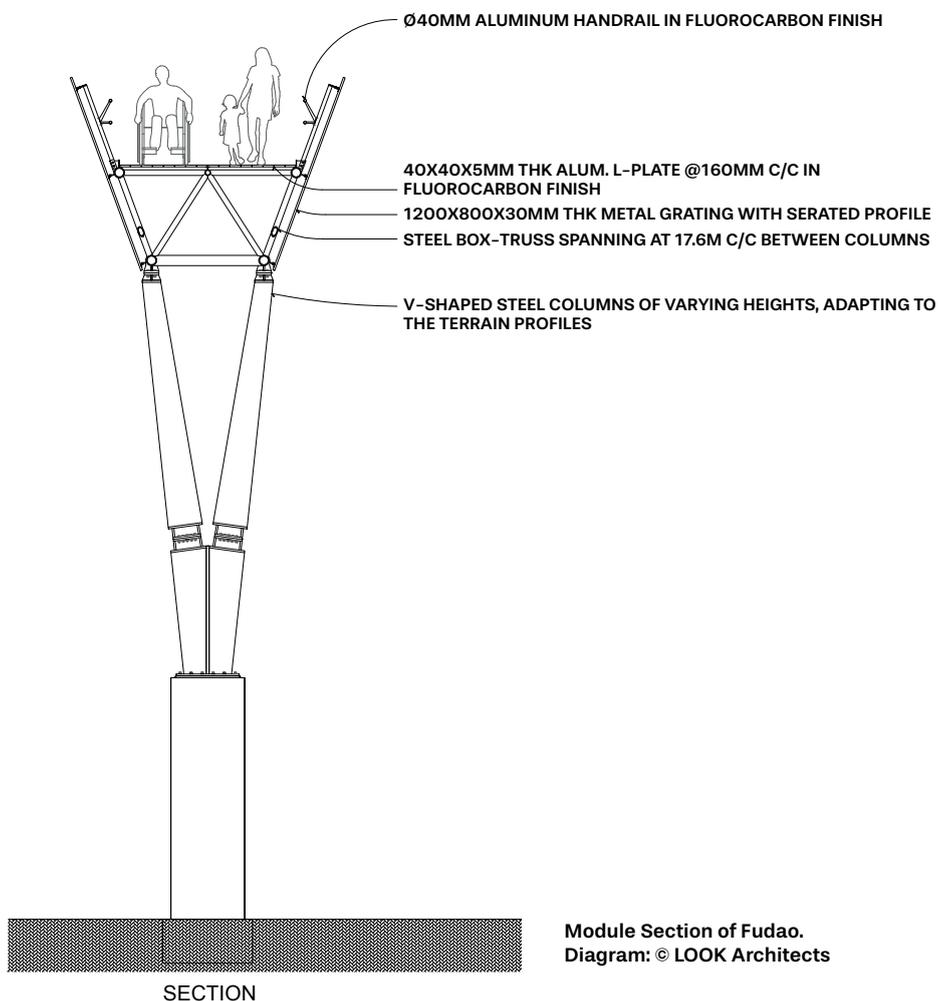
(Source: DesignSingapore Council)

The Fuzhou Trans-Urban connector or Fudao walkway provides relief to the dense urban environment and unlocks the potential of the forested hinterland for public enjoyment. At an urban scale, the elevated walkway improves public accessibility and connects the city to the Jinniushan forests stretching northeast of Minjiang and a future commercial hub in the north. It reclaims the potential of the rich natural hinterland forests of the city as both an ecological and cultural resource for its citizens by providing a "green lung" as a counterpoint to the rapid urban growth of the city while exemplifying an awakened local consciousness to improve the lives of city dwellers by bringing nature within the reach of all.

10 different entrances link the network – each celebrated by a bold urban intervention that augments the urban fabric. These environmental enhancement works complement the walkway system by transforming the marginal character of the mountain that was once characterised by army camps and graves. The different interventions variously include a columbarium complex for re-housing exhumed graves, the rehabilitation of an abandoned quarry as a new visitor's centre and the conversion of an existing bus depot into a F&B hub and main entry point.

At a more intimate scale, the public enjoyment of the hillside forests is enhanced through sensitive design that preserves as much as possible the natural greenery of the mountain. Careful attention has also been made toward universal design provisions in ensuring a constant 1:16 gradient to the walkway that allows for both the able-bodied and less-abled to enjoy the walkway. Modern conveniences including rest shelters, observatories and tearooms with wash facilities have also been included along the walkway.

The lead designer of the project was Mr Look Boon Gee, Founder & Managing Director, LOOK Architects Pte Ltd.



Module Section of Fudao.
Diagram: © LOOK Architects

"Practising Architecture
Is Both a Privilege
And Responsibility":

An Interview with 2018 President*s Design Award winner Angelene Chan

Angelene Chan, Chief Executive Officer (CEO) of DP Architects in Singapore, has been named Designer of the Year. The 2018 President*s Design Award is Singapore's highest honour for designers and designs across all disciplines. Candidates for the Designer of the Year category were evaluated on their design philosophy; innovation and originality; significance and range of portfolio of works that have demonstrated impact on contemporary life and living environment, and have social and national significance as well as iconic value. Over her 30-year long career, Angelene has designed many impactful projects in Singapore and overseas, carving a niche for herself as a creative and responsible architect. In this interview with SEAB, Angelene talks about her design philosophy and her role as an architect and CEO.



Photo credit: Juliana Tan, courtesy of DP Architects

SEAB: Congratulations on becoming one of the two Designer of the Year winners at the 2018 President's Design Award. Tell us how you are feeling.

ANGELENE: I am deeply honoured by this recognition. Every award is different. Every award is special. But I guess this one is extra special because the award has been relaunched this year to focus not solely on the quality of design, but also to highlight the far reaching impacts that design can have. What architects do affects the living environment and contemporary life, and so I have always felt that practising architecture is both a privilege and responsibility not to be taken lightly. I love my work and I work hard, so to be recognised by the design community is a great encouragement.

I also feel grateful. Preparing for the award has given me a chance to review my body of work; and looking back, I

am very grateful for the support and friendship from my colleagues, family, clients and collaborators; without them, I would not be able to pursue my passion for architecture.

SEAB: Can you tell us briefly about yourself and your education?

ANGELENE: I graduated from the University of Adelaide and I have been practising for 30 years. I am married and I have two teenage children.

SEAB: How did you get interested in architecture?

ANGELENE: My uncle was a draftsman who would draw out building plans by hand. I used to enjoy watching him draw with a Rotring technical ink pen on tracing paper, using a t-ruler. As a child, I was fascinated watching line after line being carefully penned to cover the page. And

these lines were representative of walls, doors, windows, spaces, trees, and so on. It was absolutely magical for me to see these lines representing everything that we live in and eventually being converted into actual built forms. These lines make up a universal language that communicates, without words, designs and ideas in time past and now. I simply fell in love with the process.

When I was 12, my parents gave me free rein to manage the renovation of our home. I discovered my passion for design and the joy it brings me.

SEAB: When did you start practising architecture as a career?

ANGELENE: Immediately after graduation, I worked for Woods Bagot in Canberra for three years, before returning to Singapore to work for DP Architects on the Suntec City project.

SEAB: Do you have a particular style or philosophy for your design or work?

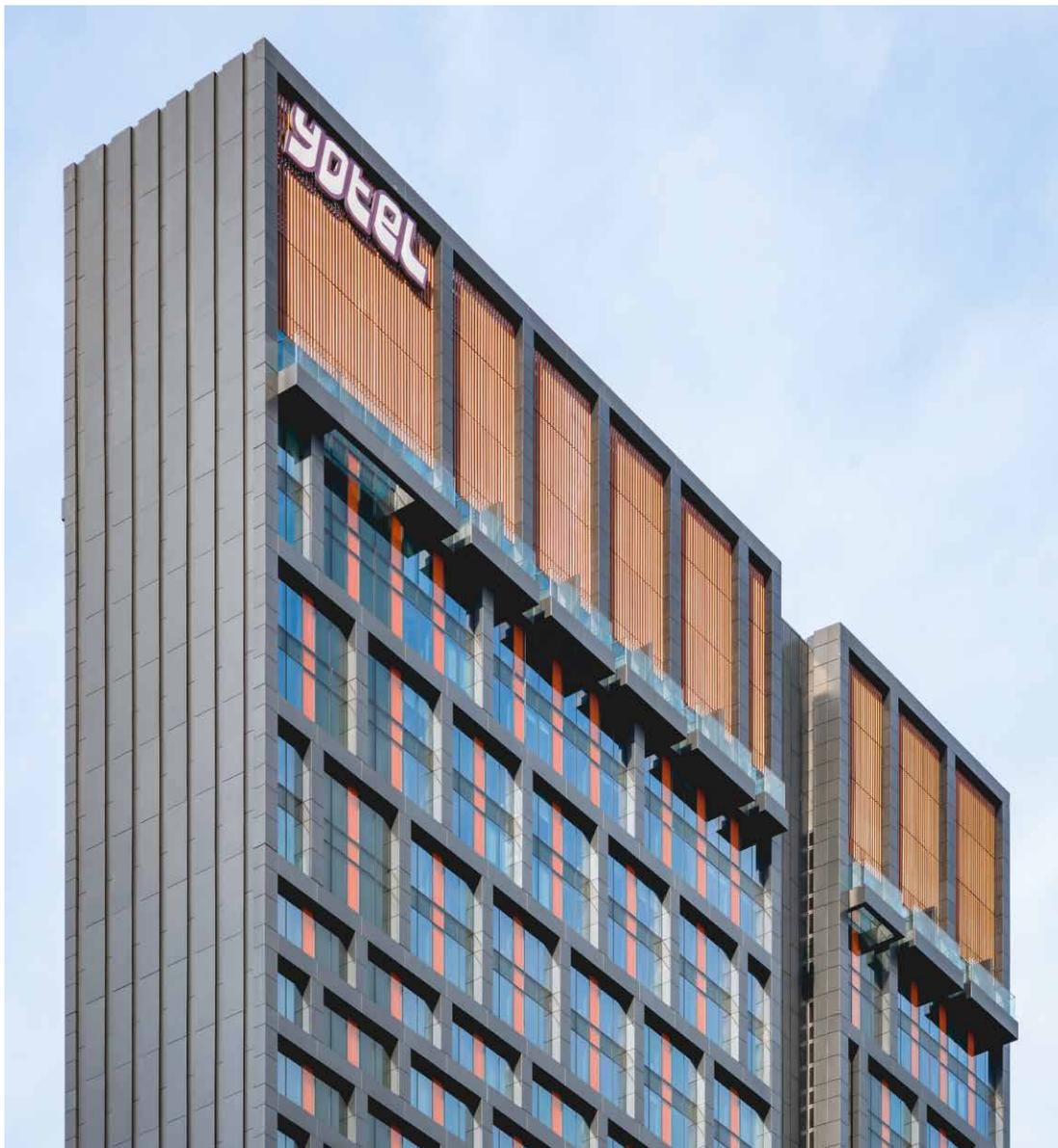
ANGELENE: What I am interested in is architecture that addresses the needs of the everyday person. Spaces for people should be well considered in relation to the urban and natural context. DP's founding philosophy is to create architecture of excellence that enrich the human experience; this is the definition and heart of design in DP. It is also what I see as my purpose and responsibility as an architect.

SEAB: What are some of the projects that you have done and you are proud of?

ANGELENE: Every project is unique and an opportunity to create something wonderful for the environment.

Having said that, *Wisma Atria* holds a special place in my heart. It is not often that an architect gets the opportunity to design the same building twice and to rethink and challenge your ideas. The redesign of *Wisma Atria* in 2004 transformed the mall from the typical boxed form to a street-integrated urban mall – the first on Orchard Road to do so. When the mall changed owners, I was also appointed the designer. The 2012 facade iteration takes a bold crystalline form built over the existing frame. It was an opportunity to explore further the relationship between architecture and user, by enhancing street visibility and responding to human movement patterns through the site.

The *Dubai Mall* is also a project that I am very proud of. It was DP's biggest



Votel in Singapore. Photo credit: DP Architects



Wisma Atria in Singapore 2012. Photo credit: Mori Hidetaka, courtesy of DP Architects



Sunray Woodcraft Construction Headquarters in Singapore. Photo credit: DP Architects



Noon Square in Seoul, Korea. Photo credit: Wonyang Kim, courtesy of DP Architects



The Dubai Mall in United Arab Emirates. Photo credit: Irfan Naqi, courtesy of DP Architects

project at that time. The sheer scale of the building alone would make it a memorable project. We planned and designed it like a city; and completed it in four years, from design to mall opening. It was quite an unprecedented timeframe for a project of this size. For the mall to continue to be so successful, surpassing its visitorship every year, is very gratifying because it proves that our design is good.

At the opposite end of the scale is *Sunray Headquarters*. It is a small project, which is a refreshing change from the mega projects I had been working on before. The owner was very open to our ideas and gave us free rein to design. As a factory, is it not the type of building that immediately comes to mind when you think about beautiful designs. However I believe that all buildings, even utility buildings, should be functional, sustainable and delightful. So I am very proud that the project was recognised with the President's Design Award.

SEAB: As the Chief Executive Officer of DP Architects, what are your main responsibilities?

ANGELENE: When I was appointed CEO, I was given the charge, and the executive power, to push the design direction and quality of the practice. As DP grows, it is important to ensure the consistency of quality of all the design teams, and to respond effectively to shifts in the industry as well as rapid changes brought on by technology. So my responsibility is to spearhead DP's progress as a design firm, so that we continually evolve as a creative practice.

At the same time, I still head a project team and continue to design and manage projects. So being an architect is still very much my job.

SEAB: In what direction do you want the company to grow in the next 3–5 years?

ANGELENE: I see typology research and knowledge of new architectural technology as key means to evolve new solutions to design challenges. The dynamics of the design industry is changing due to rapid advancement in technologies and its related shifts in human behaviour. So, as designers we need new ideas; and research and technical mastery will help to push

design innovation.

We have established 10 typology research teams to investigate developments in each building type, above and beyond the research we would typically do for our projects. This focus on research is not something that will reap returns in the short term. However, when the firm as a whole recognises the importance and benefits of research, it will raise the level of investigation in each team, which in turn will result in better design.

Technology is essential for design innovation, and increasingly designers need to understand software capabilities, script and codes in order to harness the full potential of technology. We have a Design Intelligence unit to advance our technical capabilities and the integration of computational design tools in our

design process. This will mean a change in the way we think and behave as designers, but it is a necessary shift if we want to sustain and evolve our creative practice.

SEAB: What motivation would you give to young architects who have just started their career?

ANGELENE: Architecture is a profession where you can have a very long rewarding career because creativity has no age limit. Many successful architects continue to work well into their 80s and 90s. The important thing is to never stop learning. Continuous learning is essential if you want to remain relevant. If you have the passion for architecture, then dream well, work hard, read constantly and travel often to open your eyes.

“Continuous learning is essential if you want to remain relevant.”



Photo credit: Juliana Tan, courtesy of DP Architects



Eco Wood Composite Decking. Photo: © The Floor Gallery

The Floor Gallery shows the way to eco-friendly living

The Floor Gallery Pte Ltd was founded with the objective to supply and install high eco quality flooring products to homeowners and commercial properties. According to the company's eco philosophy, eco-friendly living goes far beyond than just turning off the lights or closing the taps. It is about changing the way you live and that includes using eco-friendly products in your home or office that can conserve energy and prevent air, water and noise pollution.

Eco-friendly flooring can do more than just giving aesthetic looks in a home. With eco-friendly flooring, everyone can do his or her little part for the environment. Good quality eco-friendly floors aim to conserve the materials used, right from the start of the manufacturing cycle to the finished product. For example, the company's EPRF (EcoProtect Resilient Floor) collection claims to be the only resilient flooring in the market that comes with antibacterial properties. Its proven surface technology can remove 99.9 percent of bacteria with two times stronger scratch and stain resistance. In addition, its soft surface makes it a safe environment for elderly and children.

In order for the green product industry to grow, it is necessary to dispel the many misconceptions surrounding them. One of them is that tons and tons of trees are cut down to make wood flooring. This is not true as wood flooring products that are certified under FSC (Forest Stewardship Council) are guaranteed to come from a forest or supply chain that is managed responsibly. This means that new trees are planted

to replace the trees cut down to keep the eco-system in balance.

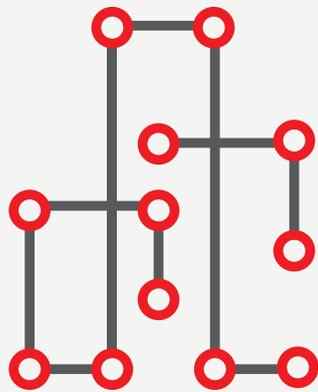
Advancement in technology is also helping the green product industry to flourish. For example, wood floors can be engineered into three layers or multilayers. This cuts down the total usage of wood materials for a floor. The top layer or veneer is made of the actual wood species while the rest of the layers are produced using fast-growing wood species, such as pine or spruce. The benefits of this construction also add dimensional stability to the wood floors, resulting in less expansion and contraction problems such as gapping and buckling. The company's Floortop Wood Flooring aims to do just that.

Composite wood decking is also fast becoming the trend for outdoor decking, thanks to technological innovations. The product uses less wood materials and a certain percentage of plastic. The company's Eco Wood Composite Decking from France is mainly made from recycled materials. Despite of the large volume produced, no trees are cut down for manufacturing the composite decking as the wood flour used is produced by a sawmill. The decking product is 100 percent recyclable and is durable with no treatment required. The decking product is rot-proof and the boards do not turn grey, do not splinter and are resistant to termites and fungi.

The Floor Gallery believes that green living and eco-friendly flooring products go hand in hand. Investing in an eco-friendly flooring product can help to create a better and greener society.



EPRF (EcoProtect Resilient Floor). Photo: © The Floor Gallery



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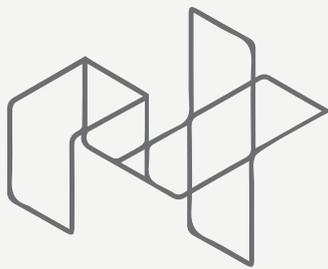
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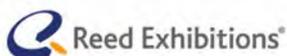
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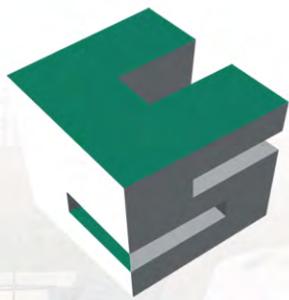


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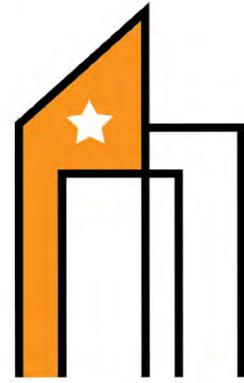
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