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JAN/FEB 2015

ON THE COVER The Oliv in Singapore, Building of the Year at SIA Design Awards 2014
ARCHITECTURE URA Architectural Heritage Awards 2014 winners in Singapore & Hilandar Monastery on Mount Athos, Greece **INTERIOR** Capital Square in Singapore & Silom Office in Bangkok **LANDSCAPING** Outdoor Fitness Equipment **SHOW REVIEWS** Cersaie 2014; ArchXpo 2014 & BuildTech Asia 2014 **SHOW PREVIEW** WORLDBEX 2015 **PLUS** Winners of the 14th SIA Architectural Design Awards & Holcim Awards 2014 winners for Asia Pacific



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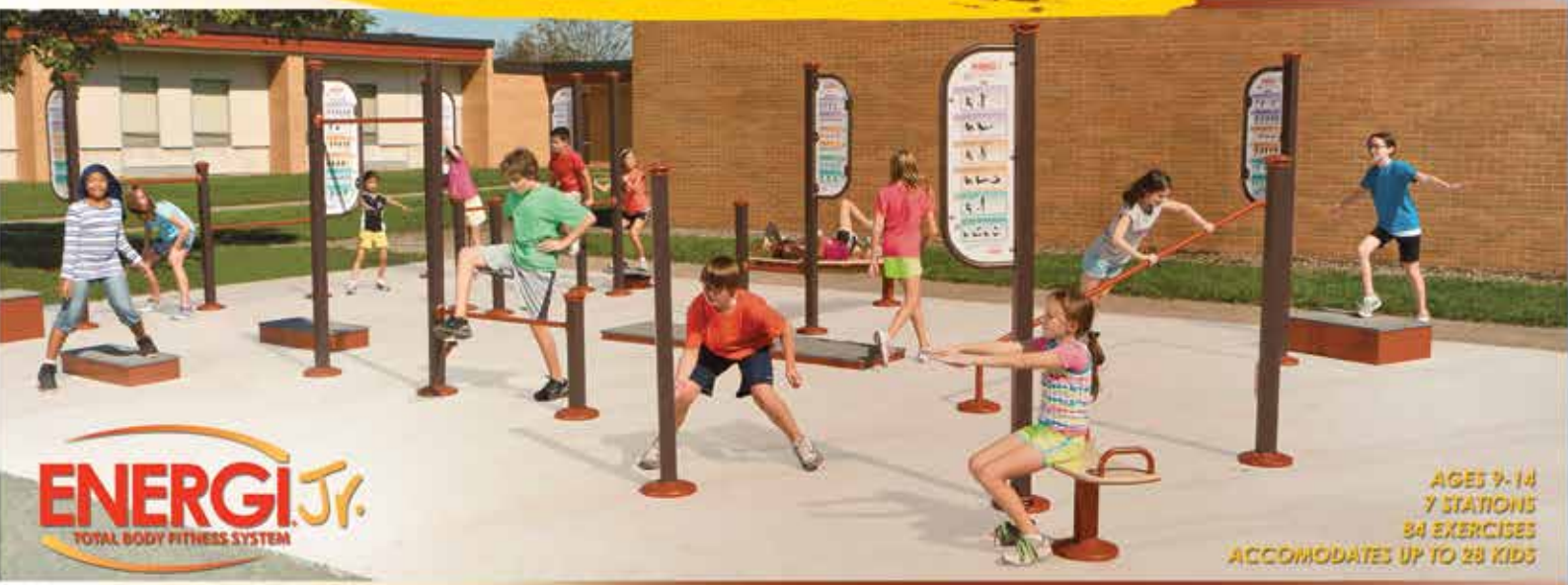
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On the Cover: The Oliv in Singapore. Photo: Courtesy of W Architects Pte Ltd

Cover design by Fawzeeah Yamin



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editor's note

Failure to change our ways will mean another missed opportunity. Let's seize the moment. Happy New Year!



Dear readers, thanks for all your support during 2014, and here's wishing you a peaceful and enjoyable 2015. Architects in Asia and around the world are churning out some fantastic designs, like never seen before. As a field that is both creative and practical, the architecture industry continues to create new concepts to utilise space in the best possible way. Whether it is designing for a mega-city or for a small house, architects always have risen to the challenges with a win-win situation.

It is heartening to know that more and more awards are being made to recognise the efforts of architects and their clients and builders. Through these awards, architects can inspire one another onto greater and greater levels of excellence.

In the Jan/Feb 2015 issue, we showcase some local and international award winners that have grabbed headlines for their awe-inspiring work. They are winners of the 14th Singapore Institute of Architects (SIA) Architectural Design Awards 2014 and Holcim Awards 2014 Asia Pacific. In the News section of the magazine, we have published the winners of the HDB Design Awards, DETAIL Prize 2014, International SEA (Sustainability Entrepreneurship Award), the inaugural Moriyama RAIC International Prize, and 2014 RIBA Stirling Prize for the Best Building of the Year. We hope that they will continue to be a source of inspiration for many young budding architects.

Enjoy this issue of SEAB...there is a lot of interesting stuff to read. Don't forget to visit, "like" and share our facebook page! Bye for now....

Amita Natverlal

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Atkins conducting multidisciplinary marina study for Colombo Port City

Hong Kong – Atkins has been appointed by China Harbour Engineering Company (CHEC) to assess the opportunity of incorporating a marina into the proposed 2.5 square kilometres mixed use Colombo Port City development in Sri Lanka. The study is multifaceted and will establish the overall demand for marina facilities, the size of the marina, appropriate berthing mix and seek to optimise its configuration. The study will include the hydraulic modelling of the effect of the marina breakwater on the near shore coastal conditions and the adjacent Beira Lake stormwater outlet.

Philip Chiang, Atkins' project director, said: "We are very pleased to work with CHEC on this project, the first major project under our memorandum of understanding for global strategic cooperation with China Communications Construction Company Ltd (CCCC) and our global cooperation agreement with CHEC signed in April this year. It shows our strong commitment to work strategically with each other to unlock more opportunities for all parties both in China and abroad."

A multidisciplinary team of economists, urban planners, urban designers, marina designers and water and coastal engineers from Atkins' Asia Pacific and UK businesses is involved in the project, which will focus on three key areas:

- a market study of the marina sector in the region to estimate current and future levels of demand for sailing and motor boat facilities and to identify the boat types, sizes and traffic expected at the marina. Atkins is working closely with a number of internationally renowned marina operators to ensure the outcomes of the work are realistic and implementable.
- a layout plan for the marina which maximises the capacity and efficiency of berths based on the market study as well as a concept plan for the landside facilities such as a club house, boat storage, maintenance and repair workshops along with commercial activities in retail, residential and hotel accommodation.
- a concept design of the breakwater to provide an active and attractive setting for the marina facilities.



View of commercial zone of the marina.

LOTTE World Mall opens in Seoul

Hong Kong – Benoy celebrated the opening of South Korea's largest shopping centre, LOTTE World Mall in Seoul in October 2014. Benoy was the Interior Architect for the ground breaking retail scheme and Façade Concept Designer for the adjoining Avenuel department store, claimed to be the third largest duty free store in the world.

Opening in the thriving capital of South Korea, LOTTE World Mall has been welcomed as a high-profile addition to the commercial property sector. Seamlessly integrated to a high-end department store, entertainment tower and world-class concert hall, the retail development has established a shopping and entertainment destination to elevate Seoul's exciting megacity of ten million and its booming tourism industry.

"LOTTE World Mall is the most significant development undertaken by Benoy in South Korea," explained Senior Associate Director, Eduardo Gonzalez. "We approached the scheme not only as a major shopping destination for the country, but as a tourist attraction for Asia," he added.

Benoy's Interior Design has captured the significance of the development, introducing innovative and interactive features not yet seen on the same scale in the country. Sculptural GRG ceilings, illuminated timber walls, prominent motif lighting and pocket outdoor gardens have added to the profile of the development as a modern city landmark.

"Given the scale of LOTTE World Mall, the design of the public areas, the areas where people naturally converge, was critical. We featured a number of design elements to ensure that these spaces were memorable and unique. For instance, the main atrium is dressed in a distinctive material, allowing us to create a geometry which would've been hard to achieve using traditional methods," said Rufus Turnbull, Divisional Director.

Benoy's Interior Design for LOTTE World Mall extended from the basement levels to level four. The top two floors were thematically designed as the concepts Nostalgia Mall and Charlotte Avenue by firms MBC Art Centre and Node respectively.



LOTTE World Mall. Photo: © Benoy



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Construction begins on Zhuhai Tennis Centre

Brisbane, Australia – Construction has begun on the new \$84 million Zhuhai International Tennis Centre, on Hengqin Island in Guangdong Province, China, designed by global sports architects, Populous, with the first stage scheduled for completion in time to host a WTA event in November 2015.

This is the second high profile international standard tennis centre which has been designed by Populous, the designers of Wimbledon Centre Court's moving roof and the recently completed Margaret Court Arena in Melbourne.

The firm won the Zhuhai Tennis Centre following a high profile international competition. All work done during the competition and then developing the design after the competition has been carried out from Populous' Asian headquarters in Brisbane.

Populous Asian Director, Senior Principal Andrew James said the market in China for tennis and other leisure sports like horse riding in China is growing rapidly.

"This is not only because of an increasing middle class who have more leisure time, but also because the Chinese Government is now more focused on professional sports. This facility will set a construction benchmark for China because of its complexity," he said.



Aerial rendering of the Zhuhai Tennis Centre. Photo: © Populous

Zhuhai Tennis Centre will host the WTA Elite Trophy Zhuhai from 2015-2019. The first stage of the Centre's development, which will be completed by next September, includes a Centre Court with 5,000 seats, 5 other match courts including 1,000 seat court and 12 training courts. Populous has carried out the architectural design, interior design and landscape design of the project.

Singapore Sports Hub wins global and local design awards

Singapore – The Singapore Sports Hub has been named Sports Building of the Year at the prestigious World Architecture Festival (WAF) Awards 2014. Designed by Arup, DP Architects and AECOM, the Sports Hub beat five other entries from around the world to clinch this award.

Earlier in the week, the Sports Hub received a Design Award at Singapore Institute of Architects Architectural Design Awards 2014 for its excellent planning and unique ecosystem of sporting, leisure and retail spaces. This latest win further recognises the Sports Hub's architectural excellence amongst iconic sports-related buildings in the world.

"These awards bear testament to the design team's dedication and effort over the last eight years," said Teoh Hai Pin, director of DP Architects. "The Sports Hub has set a benchmark for the planning and design of future integrated sports developments around the world. More than a premier sporting venue, the Sports Hub is unique in that it is a destination that is truly meant for all. The organisation of the leisure and lifestyle elements as well as meaningful civic realms inspires and encourages community participation and inclusiveness. For this socially meaningful project to be recognised internationally and locally is very rewarding indeed," added Teoh Hai Pin.



Aerial view of the Singapore Sports Hub. Photo: © DP Architects

"It is fantastic for the design of the Singapore Sports Hub to be recognised in this way," said Clive Lewis, Associate Director of Arup. "The design of the stadium has responded to our client's very ambitious brief, the site context and the local climate. To me, the National Stadium is the hub within the Sports Hub. We wanted to create an icon of the dome roof which people can identify with elite sport and a world class sports destination. At the same time we wanted a vibrant and attractive precinct which will draw people to the Sports Hub every day of the week. We are very proud of how it has been received as a successful venue by the people of Singapore and the recognition of its architecture today is a proud moment for all of us in the design team," added Clive Lewis.

"Central to the success of Sports Hub is just how well integrated the masterplan design is, linking the precinct seamlessly – with its sports, community and leisure uses – to the city beyond," said Jonathan Rose, Principal, Design + Planning, AECOM. "From creating great new public spaces for the community, to landscape features such as rainwater harvesting, sustainability is woven into the design of the Sports Hub. We are honoured to receive the awards for this project, as a model for how design can help create lasting value for the city, over the long term," added Jonathan Rose.



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Space planning is always a key point that designers and users focus on. To better serve user's expectation and the market trend, **GCC** launches "**Heavy Duty Sliding And Stacking Wall System**" and "**Sliding And Folding Wall System**". There are two major features of these two creative systems. First of all, it does not require to drill through glass and no need to use AB glue on glass. These two features offer more convenient operability to users and significantly cut down the installation time. Moreover, it does not require floor guide anymore, and it keeps the floor flawlessly from washing and dust and maintains simple and neat partition system. In addition, **GCC** offers anti-UV PVC seal, weather resisted rubber seal and weather brush to keep mosquitoes and insects away. All these options allows customer to flexible apply **GCC's** products in different conditions.

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Infinite Studios premieres 'The Scene'

Singapore – Infinite Studios, an integrated media entertainment and creative services company, in partnership with Landstar Development, brings movies to life with the launch of The Scene, a liveable and filmable movie town themed holiday resort, claimed to be the first in Asia. This unique movie themed development is located in the upscale Nongsa coastal area in Batam, Indonesia.

The Scene is a one-of-a-kind holiday resort inspired by classic European architecture by leading architect, Piter Gan and renowned Hollywood scenic artist, Peter Collias. It spans 31,600 square metres featuring 295 low-rise condotel units comprising of studios, one/two bedroom apartments and suites as well as 50 retail spaces. The resort will showcase top-of-the-range facilities including a lobby lounge, all-day dining, alfresco café & dining, rooftop bar, pool bar, clock tower gallery, wedding chapel, fitness and wellness centre, shopping streets as well as MICE rooms. Prices for both condotel and retail units begin at S\$200,000.

The full construction of The Scene is planned in four phases and expected to be completed by December 2018. Phase 1 will be launched on 8 November 2014 comprising of 109 units including studios, one-bedroom apartments and retail spaces. Temporary Occupation Permit (TOP) will be from 31 March 2017.

Beyond The Scene's cinematic living, this unique vacation home prides itself in its accessibility - a half-hour ferry ride from Singapore and connected to Nongsapura Ferry Terminal by a short footpath. Guests of The Scene will be located nearby several golf courses and the favourable



Entrance of The Scene. Photo: © Infinite Studios

sloped terrain of Nongsa allows most apartments to enjoy uninterrupted views of the sea and lush green landscape. "The Scene's unique concept stems from the strong demand we are seeing in Asia for movie production, with more international directors now choosing to come to this region," said Mr Mike Wiluan, Chief Executive Officer, Infinite Studios. "What you see on the big screen, we have created in reality with The Scene. Its breathtakingly stunning cinematic environment presents an exciting opportunity as a new vibrant place to stay. Its close proximity to Singapore, excellent transport links, and first-rate architecture and hotel facilities, make The Scene destined to become a new iconic landmark," he added.

ABB opens new low voltage factory in Indonesia

Jakarta, Indonesia – ABB has opened a new production facility in Cibitung, West Java to double ABB's miniature circuit breaker (MCB) production capacity within the region, to meet growing market demands driven by rapid urbanisation and the growing industrial sector. The move is in line with the company's growth strategy focused on market penetration, innovation, expansion (its PIE approach). The new facility will employ more than 200 people.

Tarak Mehta, head of ABB's Low Voltage Products division globally, said: "We see substantial growth opportunities for the low voltage business in Indonesia. The country's strong economic growth prospects, coupled with a young population, is expected to increase demand in the residential, industrial and commercial construction sectors. Electricity demand grew by 10 percent last year."



From left to right: Mike Mustapha (ABB Business Unit Manager- Enclosure & DIN rail), Murdaya Poo (ABB in Indonesia shareholder), Ferry Yahya (Expert for domestic goods usage intensification, Industry Ministry of Republic of Indonesia), Richard Ledgard (ABB in Indonesia Country Manager) leading the ribbon cutting ceremony at the factory's opening.

"We are proud to expand our manufacturing presence in Indonesia. ABB is well positioned to support the economic success of the country and our customers, by delivering world class quality products manufactured locally. We have a broad range of leading solutions to protect, connect and control electricity as well as deliver energy efficiency."

The new factory is equipped with state of the art assembly automation and product testing equipment. In Indonesia, ABB already operates a low voltage production facility in Cibitung.

Richard Ledgard, ABB country manager for Indonesia, added: "ABB has been present in Indonesia for more than 20 years across a range of activities, including the manufacture of low voltage products such as MCBs for industrial and residential purposes, supplying to the state electricity company, and contributing to the development of Indonesia's infrastructure."

"In Indonesia we have a range of partners in industry, utility and building segments and we see this as a key market for our future strategy. Our investment will help us to serve our customers even better in the years to come and to grow their business together with ABB's," he added.

Miniature circuit breakers are an electro-mechanical device that protect circuits from over voltage. This year, ABB is celebrating 90 years since it patented the technology in Germany. The company has manufactured almost one billion MCBs globally to date.



Guests touring the factory's automated assembly and testing area.

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BUILDTECH and MHS 2014 emerges as the sourcing hub for building materials, construction technology and hardware tools

Kuala Lumpur, Malaysia – The third edition of BUILDTECH & MHS (Malaysia International Building Materials and Construction Technology Exhibition) and MHS (Malaysia International Hardware Exhibition), successfully took place from 8-11 October 2014 at Putra World Trade Centre (PWTC), Kuala Lumpur.

Billed as one of the most comprehensive events and sourcing hubs for the building and construction industry, BUILDTECH and MHS 2014 gathered companies supplying products, technologies and solutions for the building and construction industry under one roof. BUILDTECH and MHS event is endorsed by Ministry of Works Malaysia (KKR), Malaysian Public Works Department (JKR), and Malaysia External Trade Development Corporation (MATRADE) as well as organised by the Trade Link ITE Sdn Bhd (a company of ITE Group Plc, UK).



Apart from the local participants, BUILDTECH & MHS also attracted foreign participation from countries including United Kingdom, China, Europe, Thailand, Korea, Middle East, Taiwan, Singapore and few more to be name all together for more than 200 participating countries. Spanning over 10,000 square metres in the exhibition hall, BUILDTECH & MHS managed to attract more than 5,000 visitors both local and foreign visitors from the region comprising of developers, architects, engineers, planers and craftsmen, builders, building owners, interiors designers, facilities and renovation specialist, etc.

With the impressive record of Malaysian economy as the country 4th most trade-dependent nation in the world and the well performed in construction sector shown in the productivity report consecutively encourages businesses to invest in machinery for construction rather than labours. The remarkable productivity of construction sectors with the RM 101 billion worth of construction projects were approved in 2013 has proven the construction industry will continue in being one of the prime movers of Malaysian economy.

In line with that, BUILDTECH & MHS, the fourth edition has mark the calendar of 2015 from 7-10 October at the Putra World Trade Centre (PWTC), Kuala Lumpur. **For more information, visit www.tradelink.com.my/BUILDTECH.**

Henkel acquires The Bergquist Company

Shanghai, China – Henkel, one of the world leading solution providers of adhesive, sealants and functional coatings, has signed an agreement to acquire The Bergquist Company, a privately-held and leading global supplier of thermal-management solutions for electronics applications.

“With this acquisition – which is in line with our global strategy to invest in complementary leading technologies – we are strengthening our position as a global market and technology leader,” said Jan-Dirk Auris, Executive Vice President Adhesive Technologies. “Bergquist’s track record in developing unique thermal-management solutions fits with our commitment to provide best-in-class customised solutions.”

Bergquist’s strong business presence in the Asia Pacific region will further advance Henkel’s production and R&D capabilities and help deliver greater sustainable solutions to the region.

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Good! Email us at seab@tradelinkmedia.com.sg



Five train stations gain Green Star certification

Sydney, Australia – Five stations built or upgraded as part of the \$3.9 billion Regional Rail Link in Victoria have been awarded Green Star ratings. The Green Building Council Australia (GBCA) worked with the Regional Rail Link Authority to develop a groundbreaking custom rating tool to guide the sustainable design and construction of railway stations.

As a result, the upgrades to Footscray, West Footscray and Sunshine railway stations and the new railway stations in Wyndham Vale and Tarneit have all received 4 Star Green Star – Custom Design certification from the GBCA.

“These train stations are at the leading edge of sustainable design – and the people of Victoria now have independent, third-party proof that their community assets are efficient and future-proofed,” said the GBCA’s Chief Executive, Romilly Madew.

Extensive natural light reduces the train stations’ reliance on electric lighting, while more than 100 solar panels provide power and heat water for each station. Energy-efficient LED lighting in car parks, forecourts, uncovered patron areas, and many internal areas, improve safety. Sensors automatically switch off or reduce the use of lighting and air-conditioning systems when they are not required.

Each train station uses energy and water meters to monitor consumption.

Water-efficient taps, urinals and toilets reduce the reliance on potable water, while a rainwater harvesting system collects rainwater run-off from roofs, which is used to flush station toilets and wash platforms. Low water-use and native plant species have been planted in the garden beds around the station. The Regional Rail Link has also won this year’s Premier’s Sustainability Award in the Infrastructure and Buildings category.



Footscray train station. Photo: © GBCA



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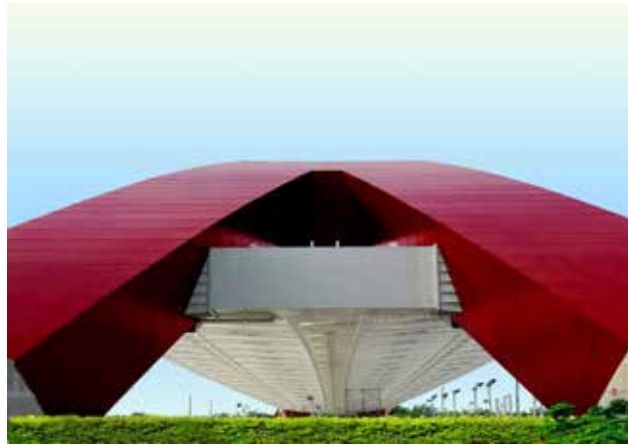
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Hunter Douglas completes engineered façade for Penang Second Bridge Malaysia



Photos of the Penang Second Bridge Malaysia. Photos: Courtesy of JKSB & rushdanmdsalleh ARCHITECT

Kuala Lumpur, Malaysia – Hunter Douglas has provided an engineered façade solution for the Penang Second Bridge and Administration Building.

Andrew J Lee, the company's Asia Regional General Manager for Façade and Sun Control system based in Kuala Lumpur said: "I am delighted that we have completed this most prestigious project, with such stunning results and utilising the innovative ventilated rainscreen façade systems."

The Penang Second Bridge, the longest bridge in Southeast Asia, was officially opened on 1st March 2014. The bridge was named after the 14th Yang di-Pertuan Agong, Tunku Abdul Halim Muadzam Shah of Kedah and was assigned with the route number E28.

Totalling 24 kilometres in length, it will take motorists around 20 minutes to cross the USD 1.4 billion bridge from Batu Kawan on the mainland and Batu Maung on the island. The Toll Plaza is designed by JKSB & rushdanmdsalleh ARCHITECT, Penang, Malaysia.

Hunter Douglas is proud to be associated with this prestigious project through the use of our architectural products - Luxalon® 150 for the external ceilings, internal ceiling (150C/225C, 300C and 575mm x 575mm Lay In Tile perforated white), 132S louvre screen, Aerofins Sun Control System 150AF and 300AF, bright yellow insulated Sandwich Wall and the red QuadroClad® (QC25) panels for the Arch facade.

Of particular mention are the striking red QC25 panels for the Arch façade. Occupying a surface area of 5,200 square metres with dimensions up to 1,500mm x 6,000mm, the extremely flat panel surface of the Quadroclad is amply illustrated in the finished installation. QC25 panel was selected as it was designed to withstand very high wind loads, are virtually maintenance free and thus also very suitable for high-rise buildings.

Hunter Douglas Façade Systems are specifically engineered to enable the Architect/Designer to create a unique design, whilst withstanding severe environmental conditions. The company's Façade systems provide the perfect combination of smooth, flat and stylish looks with superior performance. All our Façade Systems provide the flexibility of a limitless variety of design options and finishes that integrate with doors, windows and sun control systems.

CDL and Tuas Power jointly develop and launch a digital energy monitoring portal for commercial tenants



These CDL Green Lease Pioneer Tenants are amongst the more than 300 CDL tenants who have pledged their commitment to greener buildings. Photo: © CDL

Singapore – City Developments Limited (CDL) and Tuas Power Generation Pte Ltd (Tuas Power) have jointly developed and launched a new digital energy monitoring portal for commercial tenants.

This is also the first collaboration of its kind between a property developer and an electricity retailer in Singapore. The Automated Meter Reading (AMR) portal initiative is in line with the Building and Construction Authority's (BCA) 3rd Green Building Masterplan, launched in September 2014, to drive conscious energy monitoring and engage commercial tenants in best practices to lower energy consumption and carbon footprint.

CDL and Tuas Power have been engaging the tenants on the use of the AMR system and portal to self-monitor their energy consumption data. The system allows for precise billing accuracy based on real-time half-hourly consumption and avoids manual reading of meters. The timely information from the AMR portal which is accessible via mobile devices such as smartphones or tablets will enable CDL's commercial tenants to control and manage their energy usage more effectively.

Through usage analysis and comparison charts available from the portal, tenants can better understand their usage patterns and find ways to lower their energy consumption. The AMR portal will be rolled out progressively across eight of CDL's commercial buildings comprising City Square Mall, Central Mall, Fuji Xerox Towers, King's Centre, Manulife Centre, Republic Plaza, Tampines Concourse and Tampines Grande.

The AMR portal is part of CDL's Green Lease Partnership Programme to engage, encourage and enable its commercial tenants to play a more proactive role in Singapore's sustainable development agenda. Under the Partnership, CDL has also introduced a dedicated team of Green Lease Ambassadors to advise its tenants on how to 'green fit-out' their premises by embracing environmentally friendly designs, materials, fittings, equipment and lighting fixtures. This includes advice on the use of indoor greenery, energy and water conservation measures and waste management.

These new initiatives will help to drive energy improvements through user behavioural change. To date, more than 300 or over 60 percent of CDL's commercial tenants have already signed a Green Lease Memorandum of Understanding (MOU), pledging their commitment to monitor, manage and reduce energy consumption. CDL Green Lease Pioneer tenants, to name a few, include Hitachi Asia, ITOCHU Singapore, KPMG, Metro, NTUC FairPrice, Ramdas & Wong and Singapore Green Building Council.

Mr Chia Ngiang Hong, CDL Group General Manager, said: "Over the years, significant efforts have been dedicated to consciously implement green property and facilities management in our buildings. We have retrofitted several of our existing commercial properties by upgrading chiller plants, introducing motion sensors, energy-efficient lighting and recladding facades. On average, this has yielded annual energy savings of over 14 million kWh which is equivalent to more than S\$3.6 million."

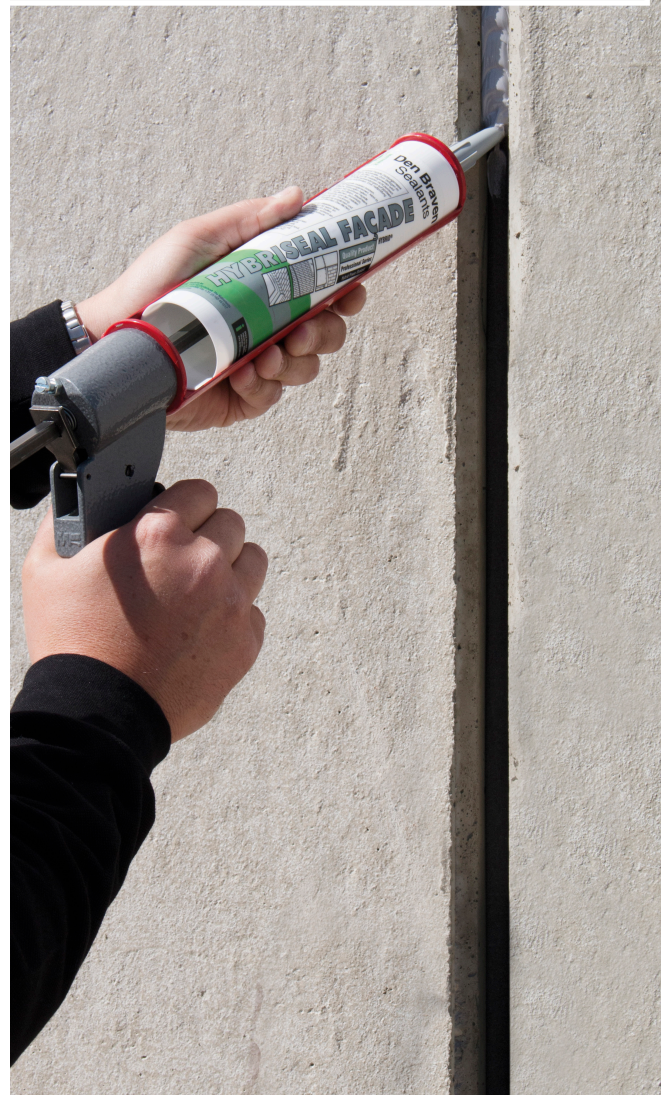


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DORMA Singapore starts production of ITS 900, a new concealed cam-action door closer

Singapore – DORMA Singapore officially started the production of ITS 900, the new cam-action concealed door closer in the DORMA product range on 25 November 2014. The production start was launched by Mr Thomas Wagner, CEO of the DORMA Group.

ITS 900 is the first of a range of new DORMA products designed and developed entirely in Asia-Pacific, Australia (APA) to address the need for entry-level premium products in the area. In his speech to the employees gathered to witness the activation of the production line for ITS 900, Mr. Thomas Wagner thanked everyone in Project Team, as well as those who supported and contributed to the project, for a job well done.

Mr. Christian Bauszus, Project Manager for ITS 900, and a member of the Regional Management Team of Region Far East, thanked the APA Management Team for their trust and support during the different phases of the project, and also expressed his gratitude for the hard work put in by the project team. Each member of the team worked diligently on their sub-projects, and he was delighted to announce that the project goals were fully met.

Offered in fixed sizes 3 & 4, and with an optional hold-open device, ITS 900 is available for ordering now with the first shipments expected from the middle of December after the UL-listing is completed.

Entry-level high performance concealed door closure

The compact ITS 900 concealed door closer can be installed for complete visual concealment in the door and frame, and ensures that the door can be opened with exceptional ease for effortless access. The system is optimally designed with selective strengthening of the closer body and a slim slide channel. At the same time, it offers the same level of user-convenience expected from high-quality door closers, combined with a wide range of functionality. Its slender inclined body means that it can be easily installed in virtually all doors with a leaf thickness of 45mm or more, and it can operate doors of size 3 or 4 with the same mounting location. It also offers easy adjustment with two independent valves.

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1) For the trade

- Hassle-free ordering and inventory management – the closer body (non-handed) and slide-channel arm assembly are packed in one box for ease of handling.

2) For the installer

- Ease of installation – Compact concealed cam-action (non-handed system) door closer with an identical mounting position for both sizes 3 and 4.
- Easy adjustment of the two closing speeds separately.

3) For the architect/specifier/designer

- Innovative engineering and design by DORMA.
- Compliance with statutory requirements for barrier-free building (C UL US Listed).
- Unblemished appearance of prestige doors – concealed installation.

4) For the user

- Barrier-free with DORMA Easy-Open technology – Easy access for all users, especially children, seniors and the physically-disabled.
- Convenience and Comfort – optional hold-open device and cushioned limit stay.
- Enhanced protection against vandalism – concealed installation.



ITS 900, the new cam-action concealed door closer in the DORMA product range.

For more information, contact Benedict Kwok at email benedict.kwok@dorma.com.

Call for Entries: 2015 UNESCO Asia-Pacific Awards for Cultural Heritage Conservation

Bangkok, Thailand – Submissions are now being accepted for the 2015 UNESCO Asia-Pacific Awards for Cultural Heritage Conservation. The Awards recognise the efforts of private individuals and organisations that have successfully restored or conserved structures, places and properties of heritage value in the region. The Awards emphasise the importance of the conservation process, including the technical achievements and quality of the restoration, as well as the social impact, including community involvement in the project.



The deadline for receipt of materials is 31 March 2015. Since the Awards were established in 2000, UNESCO has received 562 entries from 24 countries. A total of 174 projects have received Awards for high achievement in conservation, while 9 have received the Award for New Design in Heritage Contexts (previously known as the Jury Commendation for Innovation).

Entries for the 2015 Awards programme must be submitted to UNESCO Bangkok by 31 March 2015 using an official entry form, a description of the project in the official format outlined in the link below, drawings and photographs in hard and softcopy formats. Projects involving heritage properties more than 50 years old, which were completed within the last 10 years are eligible for consideration in the conservation category. Houses, commercial and institutional buildings, historic towns and villages, archaeological heritage sites and cultural landscapes, for example, are all suitable for entry. The awards aim to encourage others to undertake conservation projects within their communities, either independently or by seeking public-private partnerships.

Winners will be announced in early September 2015, with a selected number of entries receiving the "Award of Excellence", "Award of Distinction", "Award of Merit", "Honourable Mention" and "Award for New Design in Heritage Contexts".



The Award for New Design in Heritage Contexts is given to newly-built structures that demonstrate outstanding design well-integrated into historic contexts. The Award encourages submissions of completed new architecture and design that enrich the existing heritage setting. Building annexes, as well as new extensions, new buildings, new public spaces and new structures, such as bridges, are all eligible for consideration.

In 2014 the award programme received a total of 46 projects submitted from 16 countries across Asia and the Pacific, with a total of 14 projects from 10 countries recognised. Although no Award of Excellence was given this year, the restoration of the Saryazd Citadel, Yazd, Islamic Republic of Iran was honoured with an Award of Distinction.

To apply for the 2015 Awards, visit www.unescobkk.org/culture/heritage/wh/heritageawards or email culture.bgk@unesco.org.

World Green Building Council on the hunt for new CEO

Sydney, Australia – The World Green Building Council (WorldGBC) has announced that Chief Executive Officer, Jane Henley, will step down from the role in March 2015. Ms Henley was appointed CEO in February 2010. She was previously the founding CEO of the New Zealand Green Building Council, which she helped establish in 2005. WorldGBC Chair, Bruce Kerswill, praised Ms Henley's contribution over the past four years.

"Jane has been instrumental in growing the green building council network into a global movement that now boasts GBCs in 100 countries around the globe," said Mr Kerswill. "Jane worked hard to establish the WorldGBC's five regional networks in Asia Pacific, Africa, the Americas, Europe and MENA. She championed global events such as Green Building Week, and was a driving force behind the development of our two groundbreaking reports: The Business Case for Green Building and Health, Wellbeing & Productivity in Offices. She has been a passionate advocate of market transformation through business-led change, and has helped to build a strong foundation for a sustainable global property industry. We wish Jane well on the next stage of her career," concluded Mr Kerswill.

Ms Henley continues to follow her interest in business-led change, and will focus on entrepreneurial activities alongside studying at the prestigious MIT University in Boston. The WorldGBC will be seeking a new CEO, and information will be available on the WorldGBC website shortly.



Jane Henley

Winners chosen for DETAIL Prize 2014

Munich, Germany – 343 projects from 41 countries were submitted for this year's DETAIL Prize. Submissions were meant to be realizations characterized by innovative details within a coherent overall concept. Out of all the entries, the DETAIL editors chose 13 strong projects. In a second step, the judges, Werner Frosch (Henning Larsen Architects), Dorte Mandrup-Poulsen (Dorte Mandrup Arkitekter), Valerio Olgiati, Enrique Sobejano (Nieto Sobejano Arquitectos) and Gerhard Wittfeld (kadawittfeldarchitektur), chose from these entries the winner of the DETAIL Prize 2014: the Danish Maritime Museum by BIG - Bjarke Ingels Group (Denmark).



At the same time, the readers of the architectural journal DETAIL voted online for their favourite project. The winner of the DETAIL Readers' Prize by some distance was the Kwel Kah Baung Migrant Learning Center by a.gor.a architects from Thailand.

Invited guests from the fields of architecture, research, politics and industry will celebrate the winners of the DETAIL Prize 2014 together on 20 November 2014 at the Museum für Kommunikation Berlin.

The stated goal of the DETAIL Prize is to highlight the importance of architecture for society, to strengthen the role of architects in public life, and to promote networking among architects, industrialists, developers and politicians. This goal is supported by our partners, BAU 2015, the world's leading trade fair for architecture, materials and systems, Josef Gartner GmbH, and System 180.

Winning project – DETAIL Prize 2014:
Danish Maritime Museum, Helsingør, Dänemark
 BIG - Bjarke Ingels Group

The new Danish Maritime Museum, designed by the BIG - Bjarke Ingels Group and set in Helsingør's historic industrial harbour,



Danish Maritime Museum, Helsingør, Dänemark. Photo: © Rasmus Hjortshøj

lies adjacent to the UNESCO World Heritage Kronborg Castle. The 7,200-square-metre-large museum has been placed around a disused dry dock, and the location of the dock itself now marks the centrepiece of the museum's collection. A series of three two-level bridges zig-zag across the dry dock, serving as short-cuts to different galleries within the museum. These modern steel/glass bridges are cut into the existing walls of the dock and create a dynamic tension between old and new. The steel construction of the gangways derives from conventional bridge technology, and is normally used to bridge long spans. Use of this technology in building construction is highly unconventional. Bends and oscillations of the gangways are minimised through the use of massive steel chains. Thanks to the gangways in the building, visitors are in continuous motion, additionally enhanced by the gentle slope of all floors - the exhibition spaces, auditorium, café, offices and docks. Within a very short time the museum has become a popular public, cultural centre.

Winning project – DETAIL Readers' Prize 2014:
Kwel Kah Baung Migrant Learning Center, Mae Sot, Thailand
 a.gor.a architects



Kwel Kah Baung Migrant Learning Center, Mae Sot, Thailand. Photo: © Abel Echavarria

When the lease for its site was terminated, Kwel Kah Baung School in Mae Sot in Thailand had no choice but to look for a new site on which to construct a new building. During the first construction phase, Thai architectural firm a.gor.a architects focused on building ten classrooms for 350 students and one staff room. To reduce costs, adobe bricks and other local natural materials such as bamboo and eucalyptus were used. The school stands on a slightly raised, firm base plate to protect itself against possible floods. Between the individual classrooms there are garden rooms. The separation of the classrooms leads to a reduction in noise levels and ensures good air circulation in the individual rooms. The gardens continue to provide a comfortable learning environment and open up a view of a lotus pond behind the main building. The open space in front of the school is used for morning assembly. The second construction phase will involve the construction of a library, a dining room with an outdoor kitchen, and sanitary facilities. The costs for the first phase amounted to only US\$ 25,000, and US\$ 17,000 has been set aside for the second phase.

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SEA for 'Best Idea' awarded to DUS

Dutch architecture firm DUS wins international SEA (Sustainability Entrepreneurship Award), the largest sustainability award worldwide, with 3D Print Canal House Project.

Amsterdam, the Netherlands – The Sustainability Entrepreneurship Award is the largest sustainability award worldwide. 320 entries from 65 countries were handed in this year. The SEA for 'Best Idea' was awarded to DUS Architects – a Dutch architecture firm that is 3D-printing a house using bio-materials.

The 3D Print Canal House is an ongoing research-and build project initiated by DUS. An international team of partners from different sectors, such as Heijmans (building and construction) and Henkel (materials), collaborates in the development of 3D printing techniques for architecture, as a tool to revolutionise the building industries and offer new tailor-made sustainable housing solutions worldwide.

The 'SEA of Excellence' has been presented to two persons this year: to Barack Obama for his efforts to reduce greenhouse gases and to "The Ocean Cleanup" – a forward-thinking and passive form of collection to clean the oceans of plastic. Further prizes were awarded in eight categories – all of them pioneering, innovative ideas that are making a high social contribution towards a sustainably positive future. The 3rd SEA Gala was held at the Sophiensäle in Vienna, with around 250 high-calibre international guests from business, science, politics and society. Hedwig Heinsman, who co-founded DUS together with Hans Vermeulen and Martine de Wit in 2004, represented the firm and the team of the 3D Print canal House at the event. The award was handed over by member of the jury, EU parliament member Lambert van Nistelrooij.



3D Print Canal House. Photo: © DUS Architects

The first \$100,000 Moriyama RAIC International Prize goes to Li Xiaodong of China



Interior of the Liyuan Library. Photo: © Atelier Li Xiaodong

Toronto, Canada – The inaugural Moriyama RAIC International Prize has been won by a modest library on the outskirts of Beijing, China, designed by architect Li Xiaodong.

The Liyuan Library opened in May 2012, in the hillside village of Jiaojiehe. "It is a lovely object in a dramatic landscape, a wondrous thing to use and be in," the six-member jury wrote in their statement.

Architect Li Xiaodong started working with the community before funding was in place in the hopes that a well-designed library would not only improve life in the village but also boost the local economy by attracting tourists to the scenic area. The library was eventually funded by a rural-development grant from the Lu Qianshou Trust in Hong Kong. The construction budget for the 175-square-metre library was CAD\$185,000.

"This project is about the relationship of a building to its surroundings and its role in serving the community, rather than a building as a discrete object," Mr. Li wrote in his submission statement.

In the two-and-a-half years of its operation, the Liyuan Library has experienced unexpected levels of use and appreciation. A new bus stop has opened close by to accommodate the frequent visits by thousands of people, including local villagers, tourists from the Beijing urban area, and many international visitors as well.

The RAIC received submissions for projects located in nine countries: Canada, China, France, Germany, Israel, Japan, South Korea, the United Kingdom and Tajikistan. The jury was impressed by the breadth of international interest in the prize and encouraged by the high level of engagement with the aims and objectives of the program revealed in the submissions.

"They represent works across a wide spectrum of architecture around the world today – from the object building that purports to change everything and everyone it serves, to some self-effacing projects that quietly look at the world with optimism and humility," said Barry Johns, FRAIC, Chancellor of the RAIC College of Fellows and Chair of the Jury.

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The Everyman Theatre in Liverpool named 2014 RIBA Stirling Prize for the Best New Building of the Year

London, UK – The new Everyman Theatre in Liverpool by Haworth Tompkins has won the RIBA Stirling Prize 2014 for the best building of the year. The presentation of the RIBA Stirling Prize trophy to Haworth Tompkins took place at a special ceremony on 16 October 2014 at the Royal Institute of British Architects in London.

RIBA President Stephen Hodder said: "The success of this exceptional new building lies in the architect's close involvement with the local community throughout the project. Haworth Tompkins has struck the perfect balance between continuity and change to win the hearts and minds of the people of Liverpool with the vibrant new Everyman. Complementing beautifully with the

surrounding listed buildings, it is a ground-breaking example of how to build a daring bold and highly sustainable large public building in a historic city centre. The building exceeds expectations and I am delighted to present Haworth Tompkins with the 2014 RIBA Stirling Prize."

Steve Tompkins of Haworth Tompkins said: "Winning the RIBA Stirling Prize is an enormous honour for our project team and our clients, the reward for an intensive collaboration over almost a decade, during which we have grown to love the Everyman and the great city that it serves. It is also an important endorsement of our studio's ethos and an encouragement to carry on working the way we do, despite the pressures all of us are under to speed up and dumb down. We couldn't be more delighted."

The old Everyman Theatre in Liverpool opened in 1964 in the shell of a nineteenth century chapel on one of Liverpool's main streets. Although a much-loved institution, the building itself was in a state of disrepair. The decision to pull the theatre down and replace it with a new one has been a nine-year project for the architects Haworth Tompkins. They have expertly met a difficult challenge: that of creating an entirely new and sustainable building, whilst retaining and revitalising the best-loved features of its predecessor. The architects were tasked with ensuring that the soul of the old Everyman, one of informality and community ownership – the 'theatre of the people' – was carried into the new building. The result is a new building with a striking exterior and elegant interior, all with exceptional attention to detail and sustainability credentials.



The new Everyman Theatre in Liverpool. Photo: © Philip Vile

MEVA Formwork launches new website

Haiterbach, Germany – Following a user analysis earlier this year, MEVA Formwork Systems has relaunched its website after a complete overhaul. The new website is accessed by entering www.meva-international.com (English version).

Easier navigation and quick access to a range of technical data characterise the site according to the requirements explicitly stated by users.

A quick entry allows easy scrolling to in-depth information, technical data and drawings and the technical instruction manuals for every product. Professional topics such as special designs, fair-faced and architectural concrete, forming face and frame profile are treated in detail. New sections include background information on services such as purchase and rental, planning and support as well as maintenance and repairs. Information and data are freely accessible and require no subscription or payable apps.

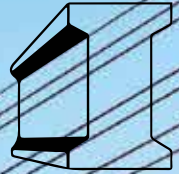
The WEB SERVICES section of the new website offers working and planning tools as well as the MEVA Calc calculators for fresh concrete pressure, pour speed and reshoring.



The new website of MEVA Formwork Systems has been redesigned and relaunched with new functions. All data and downloads are freely accessible and require no payable apps.

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HDB honours six teams of architects for distinctive public housing designs

Singapore – A total of six HDB Design Awards were presented to architectural consultants for their efforts in designing quality housing projects in Singapore. Minister for National Development, Mr Khaw Boon Wan presented the awards during the HDB Awards ceremony on 10 September 2014.

“The HDB Design Award recognises our industry partners for their contribution to well-designed quality homes for Singaporeans. HDB’s Chief Executive Officer, Dr Cheong Koon Hean said: “We congratulate the winners and thank them for their partnership. They have helped us deliver quality homes to Singaporeans. We look forward to their continuous support.”

Of the six award-winning projects, Segar Grove and Commonwealth 10, both designed by Surbana International Consultants Pte Ltd, stood out for their outstanding designs. They epitomise HDB’s emphasis on quality homes, designed for functionality and residents’ comfort. Both sites have different conditions and characteristics, such as varying land topography, shape and physical constraints. HDB worked in close partnership with our consultants to ensure that the potential of the sites is optimised, to achieve the best possible precinct for residents.

Design features of winning projects

Segar Grove



(Left) Residential blocks at Segar Grove surrounding the central precinct space. (Right) The elevated “floating platform” integrated with other landscape features. Photos: © Surbana International Consultants Pte Ltd and Housing & Development Board (HDB).

Completed in October 2013, Segar Grove is a standard Build-To-Order (BTO) project with four 15-storey residential blocks comprising 528 dwelling units of 2- to 4-room flats. Seated along a “green belt”, the project is located next to a Park Connector, which is linked to the nearby Bukit Panjang Neighbourhood Park and the Bukit Timah Nature Reserve.

Key design features of Segar Grove

- The design focuses on leading the “green belt” into the precinct. The consistent theme of greenery was carried throughout the project, injected into the ground landscape and up the building façade of white-washed walls contrasted with a variation of green.
- The differences in ground levels spurred the architects’ creation of a variety of landscape spaces. This includes an elevated “floating platform” in the central precinct space. A range of facilities for children, adults and the elderly are organised through well-connected linkways and paths.
- The blocks are orientated to maximise views, to allow as many units to enjoy green views of the central precinct space and the Nature Reserve.
- The consistent and purposeful detailing of street furniture, precinct signages and play facilities blend in with the greenery and building façade. This creates a unique sense of identity and character for Segar Grove.

Commonwealth 10

(Left) Towering blocks of Commonwealth 10 cascade down to respond to the existing urban fabric, creating a dynamic skyline. (Right) Lush greenery and communal facilities atop the roof garden. Photos: © Surbana International Consultants Pte Ltd and Housing & Development Board (HDB).

Commonwealth 10 is a SERS replacement project located in Queenstown, the first satellite town. Completed in July 2013, the project comprises four residential blocks with 774 dwelling units of 2- to 5- room flats. Even as it maximises the potential of the site, the design thinking at Commonwealth 10, a name proposed by its residents, also strikes a balance by relating to its historical and urban context.

Key features of Commonwealth 10

- Within close proximity to Commonwealth MRT station, such a housing site demands high-rise towering blocks – a stark contrast to Queenstown’s historical context of 10-storey blocks. Nonetheless, the architect deftly overcame the challenge with the design of the two 10/20-storey blocks and two 32/40-storey blocks, complementing the distinctive identity and character of the surroundings with the *chap lau* (10-storey) blocks. The result is a dynamic, varied skyline, with maximised views outwards.
- During the design process, conscious effort was made to work with and retain the existing, mature trees along the perimeters of Commonwealth 10. This design consideration displays sensitivity towards the sustainability of the environment.
- The lower 10/20-storey blocks are positioned to front the street, creating a more intimate human scale along the street. Similarly, planter boxes in living rooms and corner windows in bedrooms were provided at designated locations of the building façade, to break down the scale and height of the towering blocks.

The six winners for the HDB Design Awards 2014 are:

S/N	Consultant	Project name
Design Award – 2 recipients (Completed projects)		
1.	Surbana International Consultants Pte Ltd	Segar Grove
2.	Surbana International Consultants Pte Ltd	Commonwealth 10
Innovative Design Award – 1 recipient (To-be-built projects)		
3.	Surbana International Consultants Pte Ltd	Punggol BayView
Certificate of Merit – Design (Completed project) – 1 recipient		
4.	Surbana International Consultants Pte Ltd	Limbang Green
Certificate of Merit – Design (To-be-built projects) – 2 recipients		
5.	ADDP Architects LLP	Waterway View
6.	HDB Building Research Institute	The Verandah @ Matilda

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Fax: +62 21 2556 5005, 2556 5040
Email: steven.chwee@reedpanorama.com
Website: www.megabuild.co.id

4-7 May 2015

Project Qatar 2015
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Fax: +62 21 2930 5960
Email: niekke.budiman@ubm.com
Website: www.concreteshowseasia.com

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Convention Centre
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safisalons.fr
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messefrankfurt.com
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hk.messefrankfurt.com

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URA Architectural Heritage Awards 2014 Winners

30B Phillip Street, 145 Neil Road and 2,4,6,8 & 10 Townshend Road
were recognised at the 20th annual Urban Redevelopment
Authority (URA) Architectural Heritage Awards 2014
presentation ceremony on 2 October 2014.

The Awards were inaugurated in 1995 to recognise the people who make conservation happen – dedicated owners, insightful developers, creative professionals and sensitive contractors. They exemplify the highest standards within the conservation movement and have gone beyond what is necessary to sensitively restore their heritage buildings for continued use.

There are two categories for the URA Architectural Heritage Awards. Category A is for National Monuments and fully conserved buildings in the Historic Districts and Good Class Bungalow Areas. Buildings fully conserved according to the restoration principles in other areas can also be considered under this category. They are assessed on how far they adhere to quality restoration principles of maximum retention, sensitive restoration and careful repair. Category B is for integrated “old” and “new” developments such as those in the Historic Residential Districts and Secondary Settlement Areas. They are assessed on the quality restoration of the “old” elements, the innovation and architectural excellence of the “new” elements, and how the “new” draws inspiration from the “old”.

Overview of the three winning projects

30B Phillip Street

2014 Award Category A

Owner: The Ngee Ann Kongsi

Architect: Raymond Woo & Associates Architects

Conservation Consultant: Laborans

Engineer: Chong & Lee Consultants

Specialist Contractor: Shantou Ji Chuanying Ancient Construction and Decoration Designing Co. Ltd

Well known for its richly ornamented roof, vibrant wall reliefs and frescoes outside and within its walls, the Yueh Hai Ching Temple built in the 1820s has been faithfully restored to articulate detail showing deep respect for the monument's architectural roots. At every turn, this stunning restoration demonstrates thoughtful choices informed by extensive archival research and technical consultation with local and overseas architectural experts and temple craftsmen. In September 2014, it was also recognised with the Award of Merit in the annual UNESCO Asia-Pacific Heritage Awards for Cultural Heritage Conservation.

Faithful from the start

The methodology for restoration was clearly well thought through and executed. After a thorough search in Guangzhou, China, the project team engaged a Class 1 contractor with a team of master craftsmen seasoned in a wide range of trades, from ceramics to timber structures, timber carvings, frescoes and gold gilding. Sketches, measured drawings and photographs were compiled to document the existing architecture.

The project team stayed faithful to the 3R principle from start to finish. Adopting the "Top-Down" approach, a temporary roof was erected over the temple to protect it during the restoration works. Great care and attention to detail were demonstrated in the repair of the beams and structures, and the retention of the granite floor slabs at the front courtyard.

Past renovations which obscured the original character of the temple were removed. Using authentic materials, traditional techniques and sensitive construction method, every part of the temple was faithfully and painstakingly restored. Laudable examples include the reconstruction of the boundary walls based on archival photographs, the repainting of life-size door gods in true multi-chromatic Teochew style, and the reinstatement of the colourful dragon and tiger sculptural wall relief panels within the temple.

For the love of lore

Of outstanding excellence is the exquisite detailing which revitalises the intricate three-dimensional ceramic ornamentations on the spectacularly adorned roof and internal and external walls. Once again, the dioramas which depict Chinese folklore and classical stories come alive in the most densely decorated Chinese temple in Singapore. These captivating works of art have been meticulously recreated piece-by-piece in the experienced hands of professional artisans.

The traditional 'bao hu' mixture of hydraulic lime was used on the roof, while ash from burning shells was used as the bonding substance on the decorative porcelain. The team applied a chemical protective layer to the relief paintings on the upper panels of the front façade before painting. This ensures that the original paint layer can be recovered should the new paint layer be removed in the future. The plaster relief on the lower panels was beautifully reinstated.

Sanctuary in the city

The restoration of the Yueh Hai Ching Temple has successfully brought back to life many rare and refined features typical of the building's Teochew architectural heritage. More than an institution of great significance to the devotees and visitors, it stands as an important and delightful specimen of Teochew cultural legacy.



Restored entrance gate and reinstated boundary wall.
Photo: © Urban Redevelopment Authority



Decorative wall panels and dioramas at side walls.
Photo: © Urban Redevelopment Authority



Gold-gilded carved timber brackets with animal motif.
Photo: © Urban Redevelopment Authority

145 Neil Road

2014 Award Category B

Owner: Ms Ho Ren Yung

Architect: ONG&ONG Pte Ltd

Engineer: JS Tan Consultants Pte Ltd

Contractor: Sage Builders Pte Ltd

This terrace house of Transitional Style has been skillfully transformed through a series of clever interventions. Its charming vintage features have been retained as much as possible and lovingly restored. Elements that required replacement were reinterpreted with a refreshing touch to fulfil the building's purpose as a modern dwelling.

Passion for the past

The project team clearly observed the approach of maximum retention and sensitive intervention to achieve its vision, both outside and inside this two-storey house. Rich and unique detailings on its façade – Chinese inscriptions and friezes adorned with ceramic chips, timber doors, windows and shutters, green Chinese awning tiles and glazed Peranakan tiles, and the red cement flooring along the five-foot way – were painstakingly repaired and restored. The process to determine the original colour used for the house's facade also demonstrates good conservation practice. Layer upon layer, the old paint was gradually stripped off to reveal the authentic and striking blue tone that was eventually used.

Behind its masterfully restored exterior, the home's interior has been largely retained. Much of the upper storey timber floor joists and boards, and original elements like the window shutters in the courtyard, tiles from the former timber staircase, and the oxidised iron-gate were repaired and reused. An original doorframe that supported a Chinese plaque made from plaster at the second storey was salvaged and now serves as a portal to the secondary staircase that leads to an attic bedroom and roof terrace. The terrazzo finish evident in the master outdoor bath and other bathroom floors shows the innovative use of an old material that is now a rarity.

The team is also lauded for retaining the first-storey terracotta floor tiles and reinstating the open-to-sky courtyard which has antiquated pigmented cement wall tiles punctuated by a fish-mould waterspout centrepiece. A water-based protective coating was also applied to the otherwise friable exposed brick walls



Second storey living area. Photo: © Urban Redevelopment Authority

of the original party wall that extends beyond the first storey living room to the upper quarters.

Something old, something new

The spirit and character of the old shophouse clearly inspired the design and planning approach taken to extend the building. Its interior spaces were also skillfully organised with the old flowing effortlessly into the new rear extension. Generous courtyards draw light into spaces that are intimate yet connected, relaxed yet purposeful.

A bold new future

The spatial quality of the traditional shophouse has been successfully kept and the house elegantly transformed into a modern abode.



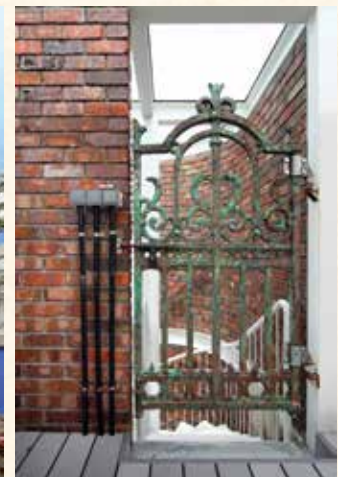
Transitional-Style Shophouse restored and repaired in vintage-inspired blue. Photo: © Urban Redevelopment Authority



Original courtyard with ornate fish-mould centrepiece, carved relief wall panels and antiquated pigmented cement wall tiles. Photo: © Urban Redevelopment Authority



Timber window shutters. Photo: © Urban Redevelopment Authority



Iron-gate restored and reused. Photo: © Urban Redevelopment Authority

2,4,6,8 and 10 Townshend Road

2014 Award Category B

Owner: Octojet Holdings Pte Ltd

Architect: SZ Architects

Engineer: Case Consultants

Contractor: LBD Engineering Pte Ltd

This boutique hotel project has enhanced the qualities of five conserved two-storey shophouses and added a new six-storey tower to the neighbourhood skyline. The outcome is understated yet tasteful, and makes a considered and positive contribution to the surrounding streetscape.

Refreshing the old

Adhering to the "Top-Down" approach, the project team started work by replacing the original roofs of the Transitional-style shophouses, which were found to be unsalvageable. The pitch roof structure was retained while damaged elements like the timber rafters and battens and original clay tiles were appropriately replaced. To update the building to suit its new purpose as a hotel, insulation was added at the roof and jackroofs were incorporated to allow light into the attic spaces.

While the main structures including the front columns and party walls were in good condition, the team did well in sensitively repairing damaged, and replacing missing elements and features like windows, balustrades and pre-cast vents of the shophouses. At the first storey, the wall is recessed for a "mama store" to recall the past.



Integration of five Transitional-Style shophouses with new six-storey tower to form a strong streetblock. Photo: © Urban Redevelopment Authority

Accommodating past and present

Through good design integration, the rear modern extension complements the linework and colour scheme of the conserved portion to give a unified development on the prominent site at a road junction. The minimalist-style straight lines introduced via the hotel tower's windows and grilles clearly reflect the horizontal and vertical features of the conserved building's façade. The full glass windows on the new block also echo the original French windows.

Great care was demonstrated in fitting the hotel rooms fronting the main road neatly into the existing grid of the shophouses. Potentially unsightly M&E amenities were carefully screened away from view to preserve the aesthetics of the development and neighbourhood. Design and planning for the hotel, including meeting the requirement for barrier-free accessibility and car park lots for hotel guests, also demonstrated careful thinking and good use of materials.

Interacting with the locals

Besides breathing new life into the pre-war buildings, the project has a positive transformative effect on the mixed use neighbourhood, which has since attracted more visitors, tourists and new businesses.



Hotel lobby cum café. Photo: © Urban Redevelopment Authority



Rear extension complementing front conserved building. Photo: © Urban Redevelopment Authority



A view of the Hilandar monastery on Mount Athos.

Hilandar Monastery on Mount Athos

Reconstruction of a Serbian Orthodox monastery damaged by a fire.

The Hilandar monastery is located on the easternmost of the three fingers of the Halkidiki Peninsula on Mount Athos (also called "Holy Mountain") in Greece. The Holy Mountain can boast 20 monasteries: 17 of them belong to the Greek Orthodox Church, one is Russian, one is Bulgarian and one is Serbian. Mount Athos belongs to Greece but the Hilandar monastery was the cradle of Serbian Orthodox Church and perfectly mirrors the Serbian medieval culture. It was established by a Greek monk called Georgios Chelandarios and was restored by Stefan Nemanja and his son Sava in 1198. Stefan Nemanja was the founder of the Nemanjić dynasty ruling on Serbia during its "golden age", from the early 12th century to the mid-14th century.

Restoration of the Hilandar monastery

The complex encloses impressive towers, entrance walls with religious paintings, a church, a treasury, a library and a 14th century refectory. The Hilandar monastery is listed as one of the UNESCO World Heritage sites and hosts precious paintings, sacred objects and ancient icons. The only way to enter the monastery is from the north or the sea. The main church is one of the most beautiful ones in the whole Mount Athos. It has been completely preserved in its original Byzantine style. The water spring and Saint Simeon's vine, famous for its healing properties, are situated next to the church's walls. The treasury



The monastery's church is one of the most beautiful on the whole Mount Athos.

and the library are located on the eastern side of the monastery.

They are decorated with 12th-century mosaics and hosts many valuable icons from the 13th century. The monastery's refectory, which still serves meals for both the monks and the guests, was built in the 14th century. Its walls are completely covered with ancient paintings. The complex had already suffered fire damages in 1722.

On 4 March 2004, a major fire swept through the monastery and destroyed about half of its structures. The medieval art pieces and sacred objects that make up the treasures of the monastery were moved to safety, but the abbot's cell, the guest rooms and four chapels with 17th and 18th century frescoes were badly damaged. Assessment of the damages and restoration works began shortly after the fire.



The refectory dates back to the 14th century.



The monastery's library.



On March 4, 2004, a major fire swept through the monastery and destroyed about half of its structures.

Many systems for one intervention

Good cooperation among the teams of restoration experts, architects and Mapei technicians allowed the use of the most suitable technologies and materials for properly renovating such a valuable and delicate complex.

The foundations

One of the first issues which needed to be addressed was casting proper concrete when relocating the foundations to a lower point at the entrance of the complex. After a careful analysis, Mapei technicians proposed the use of MAPECRETE SYSTEM, the revolutionary system for the construction of large concrete structures without contraction joints. The system encloses the use of superplasticizers of the DYNAMON line, EXPANCRETE expansive admixture and MAPEURE SRA 25 curing liquid admixture. EXPANCRETE admixture was used to compensate for the concrete's shrinkage. By adding the admixture, the shrinkage is reduced by one half compared to concrete with superplasticizers only. The concrete works were completed with MAPEFILL fluid expansive mortar, applied on steel structural elements under the load-bearing columns.

The walls in the parekklession

Byzantine churches usually enclose three main areas: the entrance, the main body with the altar and the side chapel or parekklession. For the restoration works on the fresco paintings in the side chapels (parekklession) of Saint Nicholas, Saint John of Rila and Holy Trinity in the Hilandar monastery Mapei proposed the use of MAPE-ANTIQUÉ F21 super-fluid, salt-resistant, hydraulic binder with fillers made from lime and Eco-Pozzolan and applied by injection for consolidating masonry and render, including the frescoed ones.

The application of MAPE-ANTIQUÉ F21 by injection helped the restoration and consolidation of the frescos' substrates. Architects and experts from the Institute for Protection of Cultural Monuments of the Republic of Serbia have recognised the quality of this product, which has been widely used for the restoration of other frescos afterwards.

The walls of Saint George parekklession, the Tower of Saint George and the frescoes from the era before the time of Saint Sava were also repaired using MAPE-ANTIQUÉ F21. In this case, the parekklession walls contained wooden beams which have been destroyed by fire. Stainless steel profile brackets were installed in these areas. The entire brick-built structure was then injected with MAPE-ANTIQUÉ F21.



The water spring and healing vine in the monastery.



A map of the monastery showing the sections destroyed by fire.



A view of the monastery's inside areas.

Grouting joints

In the areas where ceramic tiles or stones were used as the covering layer grouting operations were carried out with ULTRACOLOR PLUS mortar in suitable colour shades. The product was used for the joints in the toilets, hallways, public areas, reception hall and other areas. ULTRACOLOR PLUS is a high-performance, anti-efflorescence,

quick-setting and drying polymer-modified mortar, ideal for grouting joints from 2 to 20 mm wide.

KERAPOXY two-component anti-acid epoxy grout was used in the infirmary. This product is available in 26 colours, and is especially suitable in environments where hygiene and high mechanical resistance to acids are required.

Waterproofing

The monastery also hosts an ancient stone tank, which had lost its watertight properties. Waterproofing works were therefore planned to bring it back to its original state. The tank is located in the southern section of the monastery and was used to store drinking water. Since the tank's substrate was extremely prone to crumbling, Mapei's



Photos 1, 2 & 3: MAPE-ANTIQUE F21 was used for repair works into the parekklession of Saint Stefan and for the Chapel of Saint John of Rila in some areas surrounding the frescos.

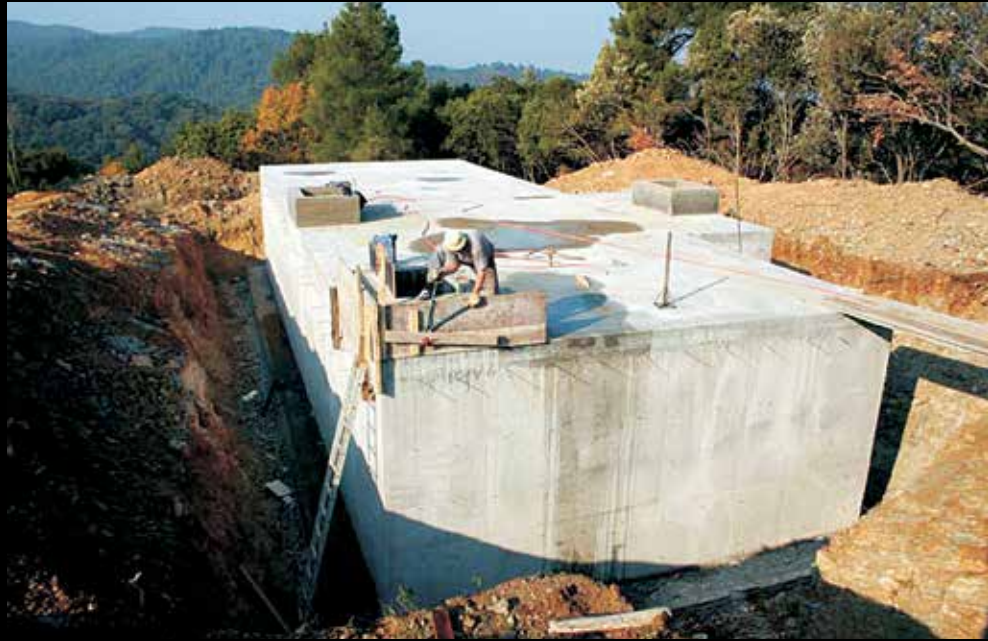
ULTRACOLOR PLUS was used for grouting tiles' and stone slabs' joints.

technicians suggested to use PRIMER 3296 consolidating and anti-dust acrylic primer in water dispersion before applying the waterproofing treatment. All cavities and uneven spots were treated with PLANITOP 400 quick-setting, controlled-shrinkage thixotropic mortar. The joints between vertical and horizontal surfaces were filled with a mixture of quartz, cement and IDROSILEX LIQUID waterproofer.

The remaining sections of the tank were waterproofed with IDROSILEX PRONTO osmotic cementitious mortar. The product was tested and its safety for human health was confirmed. As the storage capacity of this tank is limited, it could not be used for firefighting purposes. Following the Greek and Serbian authorities' request, a new water tank with capacity of 440 cubic metres was built. Mapei proposed a solution for waterproofing this tank. MAPEFER two-component, anti-corrosion cementitious mortar was applied on the exposed reinforcement rods to prevent rust and to restore their alkaline properties. The reinforcement rods were cleaned and two layers of MAPEFER were applied. The remaining works are expected to be completed using MAPELASTIC waterproofing mortar, ensuring a high-performance, flexible, waterproofing coating.

Restoration works are still on-going

Restoration works at the Hilandar monastery have not been completed. This year marks the 10th anniversary of the fire that caused huge damages to the complex. The official estimated total cost of the reconstruction is 25 million Euros; with 17.7 million Euros for the part which was directly affected by the fire.



The new fire fighting water tank was waterproofed with MAPELASTIC.

Mapei Products

Preparation of concrete: Expancrete, Mapefill

Waterproofing: Idrosilex Liquid, Idrosilex Pronto, Mapelastix, Mapefer, Primer 3296, Planitop 400

Grouting joints: Kerapoxy, Ultracolor Plus

Consolidating masonry: Mape-Antique F21

Further reconstruction of the monastery largely depends on the willingness of the local and worldwide community to restore and preserve this unique monument. Restoration works are expected to be completed by the end of 2014.

Article source: Realta Mapei International no. 49

For further information, e-mail mapei@mapei.com.sg.



An outside view of the Hilandar monastery.

PROJECT DATA

Project: Hilandar Monastery

Location: Mount Athos, Greece

Period of Construction: 12th century

Period of the Intervention: 2005-on-going

Intervention by Mapei: supplying products for repairing concrete structures, repairing old walls painted with frescos, building foundations, waterproofing water tanks, grouting joints

Project Design and Works

Direction: Milivoj Randjic (Hilandar Foundation), Mirko Kovacevic, Slobodan Barisic (Institute for the Protection of Cultural Monuments of the Republic of Serbia), Nenad Sekularac, Dragomir Krivokuca and Stevica Tripkovic

Client: Hilandar Foundation, Belgrade

Contractor: KeDAK, Centre for Protection of Mount Athos Heritage

Mapei Co-ordinators: Melanija Pavlovic, Vladimir Dimitrijevic and Nebojsa Janie, Mapei SRB d.o.o. (Republic of Serbia)



Capital Square – An iconic commercial landmark

Quality finishing, unique centerpieces and a creative concept by designphase dba refresh and renew Capital Square - a new commercial icon in Singapore's Central Business District. Photos: © Nino Yaputra



Multi-award-winning design firm, designphase dba has completed work at Capital Square, one of Singapore's busiest and most iconic commercial centres. Capital Square is located at 25 Church Street. The firm was engaged to conceptualise and complete a new front entrance befitting of the status of Capital Square, which houses companies like Morgan Stanley, Bloomberg and Citibank. The project began in April 2012.

Derek MacKenzie, Design Director for the project and Managing Director of designphase dba, said: "The commercial success of corporate real estate can depend on many things, but it's very hard to imagine that any building could interest the most highly-prized tenants if its lobby does not live up to expectations. Our work at Capital Square focused on its tenant community and the community in which it exists, to ensure that its entrance is aligned with today's discerning occupants."

Creative concept

The design thinking which generated the creative concept for Capital Square arose from the idea of 'Connectivity'. 'The Lantern', a 5.6-metres tall, 2.5-metres wide light feature that draws visitors' immediate attention on entering the lobby, depicts this concept in a luminous and 3-dimensional way. The pieces are congregated and interconnected, without being physically tied to each other, much like the community of Capital Square.

With a strong and durable footing of fine granite for the flooring, high prestige is injected into the space with the facing wall of exquisite Bianco Cavalli marble, sequence matched in vast 2.6 metres x 1.2 metres panels. The surface of the wall is highlighted with light dashing across its 'Face', a detail, which is also replicated in the floor.

A new, 10 metres-high shop-front has replaced the existing façade of the lobby, accommodating the changing dynamics of people flow, anticipated as a result of a new security system. Beyond the main entrance, enlarged lift lobbies feature fine 'light-lines' drawn to define and emphasise. A signature, hand-made and unique art piece placed in the alcove of each lobby in recognition of their subtle differences, which is an important aspect of wayfinding.

"Throughout this project we have taken great care to ensure that both our team and the design speak the language of business. The results at Capital Square, and the response from the building's tenants, tells us that our concept and execution has been well-understood and appreciated by our audience," said Mr MacKenzie.

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Silom Office

JARKEN Co Ltd, a leading provider of architectural, design and construction services, was engaged by CP group of companies (Thailand) to give their corporate office at the CP Complex Building, Silom Road in Bangkok a complete makeover. CP group is one of Thailand's largest companies and one of the first true Asian multinationals. The end result was truly a reflection of the company's corporate identity and culture. Photos courtesy of JARKEN Co Ltd



A total makeover of the Silom office by JARKEN was done by separating the office into two main areas – “welcoming space” and “working space”. The client specifically asked JARKEN to maintain strong existing 100-year old corporate history yet giving edgy modern look. The design is inspired by the simple organic form creating sophisticated lay out planning, reflecting the oval shape of seeds such as corn shaped when endeavor and nature meets, they must be presented and echoed into the design conveyance.

“Welcoming space” the complex form of design came from the client’s corporate identity “Lotus”. Lotus is a simple with subtle strength flower within its simplicity that conveys the meaning of “eternity”. JARKEN designed based on the use of scripting, simulation and modeling that enabled them to explore, imitate and generate new, architectural shapes.

Warm corridor with rich palette of materials, sculptural laminate fiber-reinforced laminate wall and book-matched ONYX glazing enclose abstracted spaces. The serpentine wall-decoration are designed to flow into one another as if formed by the receding tide.

The conference table is surrounded by a recessed wall in the lower corner illustrated a sense of solidarity. The table is specially designed to touch the charms of corporate identity with an overlay of three layers reflects the layer of lotus petals multilayer complexes including layer outermost material, a laminate white as the table meeting. Active middle layer middle laminated in a colour of Ivory, final layer is represented by a natural stone. “Lotus” again represents in lighting design made flexible to adjust the lighting in function adjustable to gradually shine from the centre of the table and onto the ceiling slab just like flourishing flower.

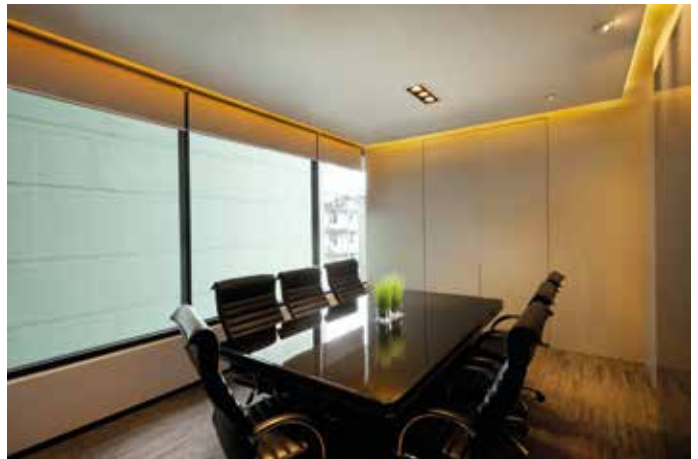
In the waiting area, metaphor elements are embraced in the design. JARKEN has created a private and welcoming feel resonating to visitors. The craft wall can be slide open turning the space into mirror wall extending space to unlimited possibility in moods. Warm colours and materials used help replenish the sense of calmness.

“The challenge to renovate “working space” is to revitalise an old dull space to stylish, vibrant, energetic environment for staff of young generation in the making. This includes an exotic relax room and creative space to create an chilling atmosphere where the design concept yield four elements including soil, water, air and fire, which are the fundamentals of agriculture,” said Sasivimol Sinthawanarong, Design Principal JARKEN group of companies.

Front entrance illustrates a textured transparent and luminous features providing privacy from the outside. Patterned stone mosaic ceramic disc from outside the perception like an inward-liked a grain, signifying to unity of all employees. This metaphor is represented within this hidden mosaic wall cabinets with aluminum ceiling tiles designed to convey core twisting movement. The movement of water navigates to the hidden space inside as well as the curved glass wall visually inclined to shelter employees from the outside.

The staff relax room was originally with no natural light. JARKEN used stone wall texture to create a different atmosphere from the bustling outside working space, totally calm and soothing. The employee can feel those with all cozy rattan furniture.

The end result of the design was a fresh and modern makeover.





Suria Hills installs Asia's first outdoor energy gym

Playpoint (Singapore) Pte Ltd, a leading playground equipment supplier in Singapore, has installed the TGO Energy Gym in Suria Hills Bungalow Land in Kuala Lumpur, Malaysia. The installation is the first of its kind in Asia, says Playpoint.

Suria Hills by Sunsuria Berhad is the first bungalow land in Asia to install the TGO Energy Gym, which allows the residents to generate electricity while working out on the gym equipment.

Consisting of the Energy Spin bike, cross trainer, handbike and recumbent bike, the energy generated by the TGO Energy Gym is displayed and stored by the Energy Display Unit (EDU), which shows how much energy is generated while working out. The energy generated by the users of the equipment is used to light up the lamps in the fitness corner in the evenings, extending the hours of use and reducing electricity costs.

In addition, the Cardio Charge products can charge up smartphones, iPads and other devices via USB port. There is a unique console on every TGO Cardio Charge piece. It also includes Watt counter that lights up to give a motivational boost and a wow factor to the user. A Device holder allows the user to hold his or her device when charging.

For more information, contact Playpoint (Singapore) Pte Ltd at tel (+65) 6398 1558, fax (+65) 6398 1559, e-mail info@playpoint.com.sg or visit www.playpoint.asia.





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Get fit with ENERGI and LifeTrail

Playworld Systems has developed ENERGI and LifeTrail.

Outdoor play isn't just all fun and games. Play in natural settings increases people's sense of self and independence while improving physical activity and weight reduction. Playing outdoors also helps to reduce depression and anxiety. More than ever before, adults are realising that the key to a longer, healthier lifestyle begins with fitness. Playworld Systems offers several product lines that help everyone, from children to seniors, train to be the best possible version of themselves.

ENERGI

For example, ENERGI is an invigorating, self-contained fitness regimen that allows people of varying ages and abilities to engage in exercise with friends and family while connecting with nature outdoors. Part of the equipment's appeal is that it has virtually no moving parts, meaning it's easy for people to use and maintain.

ENERGI combines functional fitness and body-weight training to deliver a synergistic workout that connects all five of the body's major anatomical systems and exercises nearly all of its 206 bones and 600 muscles. ENERGI is available in two complete systems. ENERGI Jr. is designed for children ages 9-14 and can accommodate up to 28 kids at once. It features seven stations and 84 exercises. ENERGI Prime is for ages 13 and up. It features five stations, 120 exercises and can accommodate up to 14 users at one time.

ENERGI Prime uses the latest fitness theories and was designed in accordance with the FITT principle – frequency, intensity, time and type – which is endorsed by the American College of Sports Medicine and the American Council on Exercise:

- **Frequency:** the ENERGI Prime system offers a total of 120 exercises, enough for a healthy, three-day a week workout regimen
- **Intensity:** each ENERGI Prime station features three different skill levels (beginner, intermediate and advanced) allowing users of varying fitness levels to complete a progressive workout routine at their own pace
- **Time:** step-by-step instructions on each weather-proof fiberglass panel make it easy for users to build a 15- to 60-minute workout routine
- **Type:** ENERGI Prime promotes four key types of fitness: cardiovascular fitness, muscular fitness, flexibility and body composition (total body mass)

LifeTrail

Another product line from Playworld Systems aimed at keeping older adults moving is the LifeTrail Advanced Wellness System. Using LifeTrail can help active adults stay fit, prevent injury and maintain an independent healthy lifestyle. Designed with safety in mind, the equipment provides an outdoor workout to make it easier for users to perform daily tasks and enjoy a better quality of life.

LifeTrail includes 21 activity panels with 159 exercises built on the principles of functional fitness: progressively challenging exercises patterned after the twists, turns, and movements of everyday life. Using real-life body positioning and movements, the LifeTrail Advanced Wellness System focuses on building the strength and energy required to accomplish routine activities.

The ENERGI systems and LifeTrail also have in-depth programming guides. The ENERGI programme guide features detailed lesson plans for schools, athletics programme for coaches, instructional videos for all exercises and an activity log to track user progress. The LifeTrail programme guide includes information on training for desired outcomes, training with the presence of



chronic disease and joint challenges. It also features instructional videos, community-building ideas, an activity log, and more.

Countless studies point to the importance of physical activity and exercise. Equipment like ENERGI Prime, ENERGI Jr., and LifeTrail can help you keep everyone in your community happier, healthier and living a more energetic lifestyle. Playworld Systems' products are built to last, with premium materials that are the most weather-resistant, vandal-resistant in the industry.

ENERGI is best suited to help Singapore's students and army personnel to prepare for IPPT (Individual Physical Proficiency Test) and NAPFA (National Physical Fitness Award), where strength, flexibility, endurance of the young adults are tested.

Commitment to constructing high quality, outdoor fitness structures and playgrounds is uncompromising. Sustainably made in America, Playworld Systems helps communities across the globe come together every day.

ENERGI and LifeTrail are available in Singapore through CT-Art Creation Pte Ltd. For more information, tel (+65) 6762 9891, e-mail enquiry@ctart.com.sg or visit www.ctart.com.sg.



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Promoting active lifestyle in urban spaces

Active Lifestyle Pte Ltd, based in Singapore, provides, enhances and encourages people of all ages to be physically active and fit throughout life. Established 1995, the company specialises in the supply of fitness equipment and related services throughout China, Hong Kong, Indonesia, Thailand, Vietnam and Singapore. The company has two key outdoor brands – GymGuru and AquaGym – for urban spaces like Singapore.

GymGuru & Aqua Gym – A Premium Solution for Premium Spaces

The GymGuru and Aqua Gym is a solutions concept containing two brands. With spaces getting tighter and denser in the urban environment, every square inch is precious. Amenities such as greenery, swimming pools, gyms, running tracks, playgrounds, etc – commonly found on ground floors – are slowly migrating upwards. Understanding this scenario in the development of urban environments, Active Lifestyle Pte Ltd is actively evolving with times in order to develop solutions in premium urban spaces such as Singapore.



GymGuru – Not just another corner

Designed and manufactured in New Zealand, GymGuru equipment is a result of substantial investment made into research of outdoor gym products to better understand and identify problems faced by potential owners of outdoor gyms. Specialist engineers with over 30 years of experience were engaged to design and build using only the highest quality durable materials, ensuring equipment meets expectations. This maximises product longevity and reduces the efforts required for maintenance in the long run. Accompanied with the use of magnetic resistance and optimal gear ratio to increase product lifespan, the patented mechanism employed within GymGuru equipment gives users the power to adjust their desired level of resistance and tailor their workout to achieve maximum-targeted results. This allows users of all ages, body type and fitness level to fulfil any workout just like they could in a regular gym. Optional wireless modules built within all GymGuru products further value-add to the equipment by giving them the capability to wirelessly transmit beneficial data. Clients will be able to receive monthly or quarterly emails documenting equipment usage count, popularity of individual equipment across the board and if any maintenance action is required. Additional software features in the pipeline include allowing users of the equipment to wirelessly transmit their workout statistics to their mobile devices.



Shoulder Grinder

- 645 x 495 x 1160 mm
- Predominantly works the upper body and cardiovascular system, however has full body benefits
- Grinders are a reflection of brawn and strength, commonly recognized as one of the most physically demanding activities



Seated Leg Press

- 1430 x 570 x 1230 mm
- A strength movement which works the quadriceps, hamstring, gluteus maximus and calf muscles
- Adjustable resistance
- Commonly accepted as a core strengthening lower body exercise movement



Hip Flexibility Swing

- 655 x 640 x 1540 mm
- A side to side exercise which loosens hip adductors, groin and outer hips
- A dynamic non-impact flexibility exercise
- Ideal for rehabilitation and improvement in hip mobility



Stationary Bike

- 1000 x 570 x 1500 mm
- Low-impact cardiovascular and strengthening exercise
- Adjustable resistance
- Ideal for exercise beginners and rehabilitation



Elliptical Cross Trainer

- 1305 x 580 x 1620 mm
- Non-impact cardiovascular workout
- Light or high intensity based on the speed of the exercise
- An elliptical cross trainer is comparable to a treadmill in its exertion of leg muscles and the heart



Recumbent Bike

- 1120 x 570 x 880 mm
- Low impact cardiovascular and strengthening exercise
- Adjustable resistance
- Ideal for exercise beginners and rehabilitation

AquaGym – The art and science of water

The unique 'Aquagym Wet Fitness System' is designed to transform any swimming pool over 1.1 metres deep into an exciting and invigorating water gymnasium that is both fun and effective to user. The system capitalizes on the natural properties of buoyancy and resistance to create a zero impact complete cardiovascular and aerobic workout. It consist of eight, portable, compact units which can be easily installed and removed it to suit existing pool needs.

The benefits of exercising in water have been well documented. In addition, the zero impact nature of exercising with Aquagym is proving to be of particular benefit in the specialist area of rehabilitation by providing patients with a refreshing and supportive medium in which to exercise.

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

AquaRower. 1120 x 700 x 2100 mm. The Aqua Rower works all the major muscle groups of the body providing a whole body aerobic workout. The aerobic and strength benefits of using a rowing machine are well known. In addition, the use of buoyancy pods provides resistance ensuring the user experiences constant load throughout the full range of motion. The resultant is an experience of the realistic feel and smooth rowing action.



AquaAbs. 1250 x 1000 x 1200 mm. The Abs station provides a stable platform for controlled knee lifts, straight leg lifts, scissor movements and stomach exercises which are essential for complete body conditioning. The use can opt for lifting one leg at a time for an easier work out or two legs together for a more focused work out.



AquaStepper. 900 x 740 x 2100 mm. The support of the water assists the user in maintaining a constant exercise load whilst working all of the leg muscles. The AquaStepper is of particular benefit to the quadriceps, bicep femoris and the gluteus muscles.



AquaStrider. 1250 x 1000 x 2100 mm. The Aqua Strider station provides the user with a full range of motion in the vertical plane working the legs and buttocks. There is also a significant training effect on the hip flexors and extensors and to a lesser degree on the lower back.



AquaTwister. 950 x 900 x 2100 mm. The new Aqua Twister enables the user to concentrate on the major muscles of the torso, including the abdominals and the obliques, although there is some training effect of the gluteus maximus, quadriceps and hamstrings.



AquaClimber. 1305 x 580 x 1620 mm. The Aqua Climber allows the user to work the upper and lower body in equal amounts or subject target areas to a higher workload by simply choosing a different hand grip position. Hand settings vary in height to accommodate individual user's height and training requirements. The activity tones and tightens the Trapezius, Deltoids, Pectorals, Hamstrings, Abdominals, Latissimus Dorsi, Gluteals, Quadriceps and Gastrocnemius.



AquaCycle. 1400 x 750 x 2100 mm. Cycling in the recumbent (reclined) position works the leg and trunk specifically, but as with cycling on land, the exercise provides conditioning for the entire body and a complete cardiovascular workout. The steady movements will ensure a constant load on the muscle groups involved.



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Singapore Institute of Architects Honours Architecture Excellence at SIA Design Awards Presentation Ceremony

The Singapore Institute of Architects (SIA) honoured excellence in architecture and the built environment at the 2nd SIA Design Awards Presentation Ceremony held on 30 September 2014 at Marina Bay Sands Expo and Convention Centre.

The Institute presented four different awards series at the Presentation Ceremony:

1. 14th SIA Architectural Design Awards;
2. 01st SIA-Uniseal G-Architect Award;
3. 02nd SIA-Rigel Bathroom Design Awards; and
4. 01st UP Awards

The Presentation Ceremony honoured twenty-six (26) recipients

- twenty-one for the SIA Architectural Design Awards,
- one laureate for the SIA-Uniseal G-Architect Award,
- three for the SIA-Rigel Bathroom Design Awards, and
- four winners for the UP Awards

SIA-Uniseal G-Architect Award

The SIA-Uniseal G-Architect Award is an honour that is bestowed annually on an Asian architect. A G-Architect is an individual who, through his/her body of as-built and/or theoretical projects of varied scale-ability, advance and advocate the theory and design practice of sustainable architecture. The 2014 Laureate was won by Mr Leung Man Kit, Director of Sustainable Design, Ronald Lu & Partners (HK).



Mr Leung Man Kit.
Photo: Courtesy of Ronald Lu & Partners (Hong Kong) Ltd



Theodore Chan speaking at the awards presentation ceremony.
Photo: © Singapore Institute of Architects

14th SIA Architectural Design Awards

The judging criteria of the SIA Architectural Design Awards are:

- originality and innovation,
- sensitivity to context,
- sustainability,
- response to climate,
- response to users' needs and
- elegance of construction and detail

The judging panel of industry professionals comprised of:

Jury Members

1. Mr Sonny Chan
2. Mr Theodore Chan
3. Ms Fun Siew Leng
4. Mr Kerry Hill
5. Ms Catherine Loke
6. Mr Leonard Ng
7. Dr Thomas Schroepfer
8. Mr Siew Man Kok
9. Mr Tan Kok Hiang
10. Mr Tan Shao Yen
11. Mr Yip Yuen Hong
12. A/P Wong Yunn Chii
13. Mr Jacks Yeo

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- President
- Group Director (Urban Planning & Design)
- Director
- Partner
- Managing Director
- Associate Head of Pillar
- Chairman
- Director
- Managing Director
- Partner
- Head, Department of Architecture
- Director

Organisations/Firms

- CSYA Pte Ltd
- Singapore Institute of Architects
- Urban Redevelopment Authority
- Kerry Hill Architects Pte Ltd
- Lander Loke Architects
- Atelier Dreiseitl Singapore
- SUTD Architecture and Sustainable Design Pillar
- MKPL Architects Pte Ltd
- Forum Architects Pte Ltd
- CPG Consultants Pte Ltd
- ip:li Architects
- NUS School of Design and Environment
- DesignSingapore Council

Moderator

Mr Seah Chee Huang (Chair, SIA Awards Committee / Director, DP Architects Pte Ltd)

A total of 14 Design Awards and 10 Honourable Mentions are awarded in 7 categories. Of the 14 Design Awards, one project is awarded as the "Best Project Constructed under \$2 Million" and one other project as the "Building Of The Year".

Building of the Year: The Oliv, W Architects Pte Ltd

Best Project Constructed under \$2 Million: Terrace House, Formwerkz Architects

1 Category: Residential Projects

Design Award

- The Oliv, W Architects Pte Ltd
- Urban Suites, Kerry Hill Architects Pte Ltd
- Chiltern House, WOW Architects & Warner Wong Design
- Terrace House, Formwerkz Architects
- Holiday Inn Express Clarke Quay Singapore, RSP Architects Planners & Engineers (Pte) Ltd

Honourable Mention

- House of memories at holland grove terrace, a d lab pte ltd
- Segar Grove (Bukit Panjang N4 C14), Surbana International Consultants Pte Ltd



The Oliv. Photo: Courtesy of W Architects Pte Ltd



Urban Suites. Photo: Courtesy of Kerry Hill Architects Pte Ltd



Chiltern House. Photo: Courtesy of WOW Architects & Warner Wong Design



Terrace House. Photo: Courtesy of Formwerkz Architects



Holiday Inn Express Clarke Quay Singapore. Photo: Courtesy of RSP Architects Planners & Engineers (Pte) Ltd



House of memories at holland grove terrace. Photo: Courtesy of a d lab pte ltd



Segar Grove (Bukit Panjang N4 C14). Photo: Courtesy of Surbana International Consultants Pte Ltd

2 Category: Commercial Projects

Design Award

- Holiday Inn Express Clarke Quay Singapore,
RSP Architects Planners & Engineers (Pte) Ltd



Holiday Inn Express Clarke Quay Singapore.
Photo: Courtesy of RSP Architects Planners & Engineers (Pte) Ltd

3 Category: Institutional Projects

Design Award

- Christ Methodist Church, K2LD Architects Pte Ltd
- National Design Centre, SCDA Architects Pte Ltd

Honourable Mention

- Stephen Riady Centre, DP Architects Pte Ltd
- Branksome Hall Asia at Jeju Global Education City, MKPL Designs Pte Ltd in collaboration with Samoo Architects & Engineers
- Four Acres Singapore, DP Architects Pte Ltd
- Good Shepherd Place, LAUD Architects Pte Ltd
- NUH Medical Centre, CIAP Architects Pte Ltd



Christ Methodist Church. Photo: Courtesy of K2LD Architects Pte Ltd



National Design Centre. Photo: Courtesy of SCDA Architects Pte Ltd



Stephen Riady Centre. Photo: Courtesy DP Architects Pte Ltd



Branksome Hall Asia at Jeju Global Education City. Photo: Courtesy of MKPL Designs Pte Ltd in collaboration with Samoo Architects & Engineers



Four Acres Singapore. Photo: Courtesy of DP Architects Pte Ltd



Good Shepherd Place. Photo: Courtesy of LAUD Architects Pte Ltd



NUH Medical Centre. Photo: Courtesy of CIAP Architects Pte Ltd

4 Category: Industrial, Transport & Infrastructure Projects

Design Award

- Audi Centre Singapore, ONG&ONG Pte Ltd
- Sunray Headquarters, DP Architects Pte Ltd



Audi Centre Singapore. Photo: Courtesy of ONG&ONG Pte Ltd



Sunray Headquarters. Photo: Courtesy of DP Architects Pte Ltd

5 Category: Special Categories

Design Award

- Bidadari Estate Master Plan, MKPL Architects Pte Ltd in collaboration with Urban Strategies Inc. and Housing and Development Board
- Singapore Sports Hub, DP Architects in collaboration with Arup Associates

Honourable Mention

- House with Courtyards, RT+Q Architects Pte Ltd



Singapore Sports Hub. Photo: Courtesy of DP Architects in collaboration with Arup Associates



Bidadari Estate Master Plan. Photo: Courtesy of MKPL Architects Pte Ltd in collaboration with Urban Strategies Inc. and Housing and Development Board.



House with Courtyards. Photo: Courtesy of RT+Q Architects Pte Ltd

6 Category: Interior Architecture Projects

Design Award

- Architect's Office At Kim Yam Road, Park + Associates Pte Ltd
- Lattice Office, FDAT Architects

Honourable Mention

- Chiltern House, WOW Architects & Warner Wong Design

Lattice Office.
Photo: Courtesy
of FDAT
Architects



Chiltern House.
Photo: Courtesy
of WOW
Architects &
Warner Wong
Design



Architect's Office At Kim Yam Road. Photo: Courtesy of Park + Associates Pte Ltd

7 Category: Greenscape Projects

Design Award

- Zhongshan Park, DP Architects Pte Ltd

Honourable Mention

- Treehouse, ADDP Architects LLP



Zhongshan Park. Photo: Courtesy of DP Architects Pte Ltd



Treehouse. Photo: Courtesy of ADDP Architects LLP

Holcim Awards 2014 winners for Asia Pacific announced in Jakarta

The winning projects of the Holcim Awards 2014 Asia Pacific show how building with sustainable construction in mind can enhance the region's human, natural and economic performance. A bird sanctuary in Thailand, a locally-adapted orphanage in Nepal, and a community library in Sri Lanka received the top prizes.

An independent jury led by Rahul Mehrotra (India) selected the winners using the "target issues" for sustainable construction that include the "triple bottom line" of environmental, social and economic performance, and also recognise the need for architectural excellence and a high degree of transferability. 13 projects to be implemented in nine countries in the Asia Pacific region were recognised with a total of USD 330,000 prize money.



Rolf Soiron, Chairman of the Board of the Holcim Foundation, Switzerland, giving his speech at the awards ceremony.



Prof. Dr. Ir. Sutanto Soehoedo, Deputy Governor for DKI Jakarta for Transportation, Trade and Industry addressing the audience at the award ceremony.

Gold to a bird sanctuary in Thailand

A bird sanctuary in northern Thailand that serves as both an educational facility and bird rehabilitation centre won the Gold prize. The integrated approach to bird conservation by Jariyawadee Lekawatana of Architectkidd and Singh Intrachooto of Kasetsart University in Bangkok, together with Chak Cherdtsatirkul of Kaomai Lanna Resort, Chiang Mai, simulates the natural habitat and includes a small hotel and bird viewing tower. Palm fiber discarded from agricultural production is re-valued as a construction material for the building envelope which provides additional habitat and food sources for all birds in the area.

At the prize-giving ceremony in Jakarta, jury member Donald Bates (Australia) congratulated the Holcim Awards Gold winners for their innovative approach to addressing the devastating



Holcim Awards Gold winners - Jariyawadee Lekawatana of Architectkidd and Singh Intrachooto of Kasetsart University in Bangkok, together with Chak Cherdtsatirkul of Kaomai Lanna Resort, Chiang Mai.

effects of bird trafficking on the survival of endangered wildlife. "The project's stance is aligned with the principles advocated by the International Union for Conservation of Nature and combines architectural qualities with conservation, education, research and eco-tourism in a complete and convincing way," he said.

Locally-adapted orphanage in Nepal takes Silver

The Lali Gurans orphanage and library in Kathmandu, Nepal by Hilary Sample and Michael Meredith of MOS Architects in New York, USA won Silver. The project addresses the needs of an under-served rural population with a facility that uses low-technology renewable energy and material resources, thus significantly reducing operating costs. Vertical gardens and permaculture provide thermal insulation as well as food for cooking. The project addresses the isolation of the orphanage as an institution by integrating the needs of the nearby communities through a library accessible to the public and a seismically-stable refuge area.



Holcim Awards Silver winners - Hilary Sample and Michael Meredith of MOS Architects in New York, USA. Pictured here is the client of the project - Christopher John Gish, Founder, Seeds of Change Foundation.

Bronze for community recuperation project in Sri Lanka

A project in the rural town of Ambepussa by Milinda Pathiraja of Robust Architecture Workshop in Colombo, Sri Lanka was awarded Bronze. The project aims to re-integrate former soldiers into post-civil-war society by providing training in building techniques through the construction of a community library. The slender building sits lightly in the landscape and wraps around an inner courtyard, taking full advantage of cross ventilation and daylight use, rammed-earth walls and recycled materials reduce the building's ecological footprint.



Holcim Awards Bronze winners - Ganga Pathiraja and Dr. Milinda Pathiraja of Robust Architecture Workshop in Colombo, Sri Lanka.

Five Acknowledgement prizes for responsive approaches

Madhusudhan Rao Chalasani of MADE, India received one of the five equally-ranked Acknowledgement prizes for a community medical center and school in Tatiba Baraibura, Jharkhand, India that combines local materials and traditional craftsmanship with modern technology to create a simple yet sophisticated building. Benoît Jacquet of École française d'Extrême-Orient and Manuel Tardits of Mikan, Japan were acknowledged for a sustainable research center in Kyoto, Japan that uses advanced technological features as well as time-honoured Japanese woodworking methods to allow rapid construction.

A further Acknowledgement prize went to a plan incorporating stakeholder participation for urban upgrading in Jakarta, Indonesia by Tomohiko Amemiya of UNITYDESIGN in Japan and a team from Universitas Indonesia that uses a two-step micro intervention to upgrade informal settlements in megacities.

Two further recipients of Acknowledgement prizes were a response by Maj Plemenitas of LINKscale in the UK to the imminent threat of coastal erosion due to rising waters by using palm tree branches for the coastal protection of Tarawa Atoll, Kiribati; and an urban water transport system in Bangkok, Thailand by Santi Sombatwichatorn of D I Designs, Thailand that proposes to revive the ancient canals of the city to create a modern network of waterways and supplement the existing Metropolitan Rapid Transit systems.



Winners of the Five Acknowledgement prizes for responsive approaches.



Winners of the five "Next Generation" prizes for students and young professionals.

Five "Next Generation" prizes for students and young professionals

The Holcim Awards competition also seeks bold ideas for tomorrow in the "Next Generation" category for participants up to 30 years of age. The "Next Generation" 1st prize went to Harvard Graduate School of Design student Zhe Peng for the historic village reconstruction of Xueshan, China. The design proposes a post-earthquake reconstruction of a historic village in Sichuan Province that focuses on the unique local characteristics of the site, bamboo as the main building material and revives traditional construction techniques.

Nusrat Jahan Mim from Bangladesh University of Engineering and Technology won 2nd prize for a modular housing plan for urban poor in Dhaka,

Bangladesh. The 3rd prize went to Antonius Richard Rusli from Universitas Katolik Parahyangan, Indonesia for an urban neighborhood remediation plan of Bandung, Indonesia. Eugene Tan from National University of Singapore won 4th prize for an urban network upgrading concept in Tangerang, Indonesia, and the 5th prize was presented to Meriem Chabani, Etienne Chobaux, and John Edom from École Nationale Supérieure d'Architecture Paris Malaquais, France for an intervention plan for the Chittagong garment district in Bangladesh.

Jury

Holcim Awards submissions for projects in Asia Pacific were evaluated by an independent jury hosted by the Tsinghua University in Beijing and included Rahul Mehrotra (head of jury, India), Marc Angélil (Switzerland), Donald Bates (Australia), Momoyo Kaijima (Japan), Forrest Meggers (Singapore), Geeta Mehta (USA), Ian Riley (China), Stephen Siu-Yu Lau (Hong Kong/China), Brinda Somaya (India), Davy Sukamta (Indonesia), and Yue Zhang (China).

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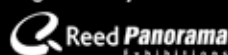
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Photo courtesy of www.laceramicaitaliana.it

Cersaie 2014 – Floored By Choice

“Coming together is a beginning; keeping together is progress; working together is success.” - Henry Ford

Cersaie, which ran from 22-25 September 2014, sent several signals to the international audience. They were signals of sustainability, confidence and faith in the future.

Held every year in Bologna (Italy), Cersaie 2014 saw almost 100,985 visitors from all over the world converge on the venue. 945 exhibitors (45 more than in 2013), including 339 non-Italian companies from 38 countries showed a cornucopia of innovations addressed to the ceramic tiles and bathroom sectors of the building industry. Cersaie 2014 generated significant momentum and raised hopes for a gradual easing of stalled investments in many markets. For the first time, the focus of Cersaie 2014 was not limited exclusively to developers of ceramic tiles. Also well represented were exhibitors of wood, marble and natural stone products. This gave Cersaie 2014 an opportunity to become more and more interesting to international visitors.

True to its history of introducing new products to the architecture world, Cersaie 2014 offered plenty of new offerings in terms of colour, shapes and textures. The magnitude of

the investment made at all levels of the manufacturing chain validates that ceramic tiles market is moving towards innovation and sustainability.

At the international press conference held at the Mast multifunctional centre and exhibition space, Luciano Vecchi, the Emilia Romagna regional government's production activities officer, who noted that Cersaie continues to be a great source of pride for the region, especially in terms of the commitment to innovation shown by companies before, during and after the event.

Roberto Luongo, Director General of the Italian Trade Promotion Agency ICE, who highlighted the desire for recovery on the part of Italian companies operating both in Italy and abroad. This resurgence, he explained, reflects the enormous vitality of the entire Italian manufacturing sector and the ceramic industry in particular.

Photo courtesy of www.laceramicaitaliana.itPhoto courtesy of www.laceramicaitaliana.it

Emilio Mussini, Chairman of the Confindustria Ceramica Promotional Activities and Trade Fairs Commission, presented the latest figures for the sector. Italian tile output has grown by 5-6 percent in 2014 (more than 380 million square metres), he said, while sales have remained stable. In particular, Italian tile sales continue to be buoyed by exports with 3 percent growth expected this year (395 million square metres). Sales revenues of 4.9 billion euros are forecast (+3 percent), along with more than 10 percent growth in investments, underscoring the sector's commitment to process and product innovation.

"Italy retains its leadership position in international tile trade in terms of value with a market share of over 30 percent," concluded Mussini.

"The market," continued Prof. Francesco Dal Co from IUAV University of Venice, "cannot succeed without a culture to sustain and nurture it. This is why each year Cersaie invites professionals from sectors related to ceramics, such as architects, engineers and art and architecture historians."

Tile Trends at Cersaie 2014

Bigger is Better

This year saw the introduction of large-format tiles such as 80x180 cm, 20x180 cm and 80x 80 cm. According to the tile exhibitors, there is a trend towards these larger formats in the local market. Customers are showing a preference for bigger tiles because they offer more design versatility and customisation. They also look clean, contemporary and great on the floors. On the production side, companies have step up their manufacturing abilities to keep up with the demand for local demand. Technology now allows them to produce bigger tiles with greater strength, durability and aesthetic. In addition, large-sized wall tiles also came with reduced thickness (usually to 6mm) for a better appearance in terms of consistency, a lighter weight in the structure of the buildings and an easier handling.

Thicker Tiles

Several companies also launched thicker tiles – porcelain stoneware tiles with thickness up to 20mm. They are suitable

for use in outdoor areas. They can replace natural stones and guarantee a high resistance to load and stresses.

Unusual Shapes

Many exhibitors showcased tiles with unusual shapes but some of them stood out with the hexagon shaped tiles. These tiles are becoming a hugely popular choice for floor and wall tiles. Their design can be as simple as white or can contain patterns of different colours.

Mix and Match

Also on display were ceramic tiles of different materials that could be mixed and matched together to create a highly customised composition. With advances in technology, it is now possible to have a tile with one colour and four different materials. This innovation is going to change the way wall tiles are being produced.

Natural Look

Ceramic tiles that look like wood and natural stone made a strong appearance at the show. Although these tiles have been popular for some time, they have been innovated to offer customers higher slip-resistance, more designs, colours and "species". The tiles had so much resemblance to real wood and natural stone in terms of intricate details and decorative grain patterns. Porcelain tiles duplicating natural stones were also on display. The manufacturing processes have improved to make the textures feel like real wood and stone.

3-D Effect

Another highlight of Cersaie 2014 were tiles with 3-D effect. Instead of flat surfaces, these tiles feature raised surfaces that can give the space depth and extra dimension to the walls.

Vintage tiles

Vintage or classical looking tiles were also on exhibition. Vintage tiles have appealing colours of great variety, durability and patterns, all of which explain the reason behind their rising popularity.

Keynote Lecture by Toyo Ito



Toyo Ito. Photo courtesy: www.laceramicaitaliana.it

Award-winning Japanese architect Toyo Ito delivered the traditional keynote lecture at Cersaie 2014. In front of an audience of 1,700 people in the Palazzo dei Congressi, Ito discussed the key aspects of his most significant works,

including the Taiching Metropolitan Opera House and Home-for-All (Minna no Ie), the rescue and temporary shelter project developed in the wake of the 2011 tsunami together with several other Japanese architects.

Toyo Ito began his lecture by outlining the measures that architecture needs to adopt now and in the future, considering that today we live in a world in which we have entirely submerged nature with artificial materials such as concrete and aluminium, rendering everything uniform. Today we need to focus on materials that help recreate a relationship between human beings and nature.

"At present I am mainly interested in materials that are inspired by the changeable nature of human beings and consequently have the ability to evolve over time," explained Ito. These principles are reflected for example in the description of the Taiching Metropolitan Opera House, whose structure is inspired by the human body. Natural ventilation based on spiral systems, minimal usage of electrical energy and the use of groundwater, sunlight and solar panels were the key points discussed by Ito during his lecture, revealing the deep and ever-growing interest in the planet's bioclimatic problems that has led him to explore ever new forms of experimentation.

Another great passion underpinning his work is his relationship with human beings, as he explained when describing the origins of Home-for-all. Built to replace the tent cities following the 2011 tsunami, these structures were developed by listening to the future inhabitants of those homes and taking account of their needs and desires. To the many students, architects and other members of the audience, Ito conveyed his love for humanity and the planet and his firm belief that these aspects must be the top priorities in the projects of tomorrow's architects.



During his keynote lecture, Toyo Ito shared some of his works with the audience. Photo courtesy: www.laceramicaitaliana.it

Cer-Sea Italian Style Beach Concept 2014



The Cer-Sea exhibition at Cersaie 2014. Photo courtesy: www.laceramicaitaliana.it

Cersaie 2014 provided a setting for the bathing resort industry with Cer-Sea, a visionary and original exhibition dedicated to the development of new design concepts for bathing resorts and related activities. The project, conceived by Davide Vercelli and Angelo Dall'Aglio, brought, for the first time, Italian beaches to the Cersaie 2014.

For the Cer-Sea exhibition, sponsored by Edi.Cer. Spa, BolognaFiere and Promos Srl, D. Vercelli and A. Dall'Aglio have envisioned a large beach in a dual summer and winter version. On the 1,200 square metres set, visitors will therefore be able to experience a multi-seasonal coastline: on one hand a pleasant natural setting for relaxing summer moments, and on the other, the exciting backdrop of business and cultural activities which migrate in winter from the city to the beach. The beauty of the natural environment could inevitably add to the value of bookshops, spas, gyms, fashion stores... and could stimulate the economy of places which live a limited season, as has already been seen in other countries.

Cer-Sea envisions the beaches of tomorrow, today. "It is, in fact, a visionary exhibition," explained Davide Vercelli, "arising from one consideration: shortly, Directive 2006/123/EC on public concessions – better known as the Bolkestein Directive – will come into force. To maximise investments, local operators will necessarily have to rethink their management of the facilities, redesigning the future of beachside businesses."

Design is the key feature of the Cer-Sea project, both in concept and set-up: alongside lightweight constructions designed to be harmoniously integrated into the natural habitat, there will also be furniture designed to boost the pleasure of beach life, made from low-maintenance, salt-resistant materials, and set up on floating platforms. The intention of the designers is to envisage, as a concept, a non-impactful way of regenerating our beaches without permanent buildings, while respecting the landscape and using the sea as a natural backdrop, just like in Roman theatres.

"The exhibitions addresses a very important topic for the national economy," added Angelo Dall'Aglio. In Italy, this sector generates an estimated turnover of at least 2 billion Euros a year. It involves around 32,000 seaside businesses spread over 7,800 kilometres of coastline, which puts us in 15th place for countries with the longest coastlines. It creates 200,000 jobs, without counting those related to the 47,000 accommodation facilities in seaside towns, and it naturally forms an important international window to design and the Italian lifestyle.



Opening of the Cer-Sea exhibition at Cersaie 2014. Photo courtesy: www.laceramicaitaliana.it

Cer-Sea involved numerous designers and over 60 companies which operate in the most representative sectors of Italian Style – floors and walls, bathroom furnishing and interior design, including some of the best ceramic companies, as well as Geberit, Scarabeo Ceramiche, Glass Idromassaggio, Oikos, Julia Marmi, Technogym, Vitra, Wall&Decò, Myyour, Foscarini, Focus, etc.

The Companies

All' Origine, Antonio Frattini, Bright srl, Casalgrande Padana, Catalano, Ceramiche Caesar, Ceramiche Refin, Cotto D'Este, Del Conca, Delled, Designmood By Cesare Roversi, Effegibi, Emilceramica, Eterno Ivica, Florim Ceramiche, Focus, Formaperta, Foscarini, Geberit, Gervasoni, Glass 1989, Goman, Gianni Vigone, Hansgrohe, Hom, Inda, Julia Marmi, Kronos 2, Laboratorio S.Rocco, Green Habitat di Latifolia Group, LF arredolegno, Libero Stile, Made a Mano, Marazzi, Marika Baldoni, Mipa, Moab 80, Monolite Ipergres, Myyour, Oikos (Colore e Materia per l'Architettura), Ombrellificio Magnani, PIETRANERA, Pineta, Provenza, Ragno, Ravaioli, Runtal e Zenhder, Samo, Sartori, Scarabeo ceramica, Selva Vetri, Serenissima CIR, Rotoloni Regina, Softline All-kit, Spazio San Giorgio, Tavar, Technogym, Tezuk, Unopiù, Vitra, Wall&Decò, Xtrawine.

Tonino Lamborghini Group and Gambarelli launch a new line of luxury ceramic tiles for walls and floors at Cersaie 2014

In this brand new collection, Gambarelli interprets Tonino Lamborghini's philosophy of Italian luxury, using cascading shades of yellow, red and black, which distinguish the brand's



From right to left: Mrs Ginevra Lamborghini and Mr Ferruccio Lamborghini (Tonino Lamborghini Group), Ing. Giuseppe Pozzi and Mr. Tommaso Pozzi (Ceramiche Gambarelli) at the launch of Tonino Lamborghini Tiles & Style.

iconic bull. A broad spectrum of solutions is available for both residences and hôtellerie. The total bathroom concept is enhanced by plumbing and fixtures produced in cooperation with prominent companies in the field, selected by Gambarelli.

Tonino Lamborghini Tiles & Style was created from the fusion of Gambarelli's established know-how and 50+ years of experience in the development and production of high-end ceramic wall tiles with the Tonino Lamborghini Group. Founded in 1981 by the son of Ferruccio, creator of the prestigious car manufacturer's brand, Tonino Lamborghini Group translates the founder's creativity and passion for design and technology into objects, accessories and furnishings which are recognised today worldwide as symbols of luxury and elegance.

Architecture, Art and Design are the key elements of the new line of ceramic floor and wall tiles and bathroom accessories. The new project will not only enrich the market supply, but it will also play a role in the décor of the Tonino Lamborghini Luxury Hotels which will be carried out in cooperation with architect Renzo Costa. This ambitious project involved a pool of companies assembled by Tonino Lamborghini in conjunction with the expertise of Gambarelli with regard to floor tiles, wall tiles and bathroom areas.



Tonino Lamborghini Tiles & Style LE MANS from LE MANS Series at the Forum Tonino Lamborghini.



Tonino Lamborghini T&S - Indy Esagona Antracite from INDY Series at the Forum Tonino Lamborghini.



Tonino Lamborghini T&S INERLAGOS from INTERLAGOS Series at the Forum Tonino Lamborghini.



Tonino Lamborghini Tiles & Style Suzuka tile from SUZUKA Series at the Forum Tonino Lamborghini.

Gian Luca Filippi, CEO of the Tonino Lamborghini Group commented: "The partnership with Gambarelli is an important and significant step in confirming our engagement to export to the world the passion and spirit of Italian culture with unique and distinctive projects, combining the excellence of Italian design with top quality."

According to Giuseppe Pozzi, Chairman of Gambarelli: "The agreement with the Tonino Lamborghini Group will place our company in the high-end market, allowing its research capabilities to flourish, based on our know-how and a tradition dating back to 1960. Certain of the prestige that resonates from a luxury brand, we also aim to grow in the emerging markets that are very receptive to Made-in-Italy high-end products."

For more information, visit www.lamborghini.it and <http://www.gambarelli.it/toninolamborghini-tiles>

CERSAIE 2014: New products

In the following, we showcase some interesting innovations shown at Cersaie 2014.

CISA Ceramiche

This year, the company made bigger floor tiles as the market was looking for bigger format tiles. The Reload range saw the addition of the big new formats 80x180 cm, 20x180 cm and 80x 80 cm, developed to cater to every design need of those who like a refined, modern style. Samuele Ruini said that the company was trying to meet a different consumer need and came up with a new line to satisfy those needs. Other new products included wall tiles with three different shapes – waves, polished and matt and a stone look alike range of wall and floor tiles made from digital inkjet, resulting in an extremely smooth surface. The company, which was started in 1954 celebrates its 60th anniversary this year. (www.ceramichecisa.it)



Samuele Ruini, Junior Export Area Manager, CISA CERAMICHE



Samuele pictured with the new Avori Imperiali wall tiles. The tile is innovative because it features four kinds of stone with quite separate visions. These four kinds of stone are also capable of co-existing, resulting in a unique innovative style. The range comprises four formats and two finishes and decorations going from sober to luxury. This innovation is expected to set a new trend in wall tiles.



1964-2014 – CISA Ceramiche completes 60 years in the industry.

Cedir

Cedir is an Italian company which has been designing and creating ceramic material for floors and walls in porcelain stoneware and single firing since 1968, uniting the classical tradition of creating ceramics with the most innovative design. For over 40 years Cedir has offered its clients materials that are designed and produced in Italy: floors and walls of high aesthetic quality and high technical performance. Creativity and quality is 100 percent Made in Italy.

The company produces its tiles in Italy and sells it to the Italian market and all over the world such as America, Northern Europe, Far East, and Middle East. According to the company, tile size is starting to be larger, for instance, 1x0.5 m. The company showcased its Zenith line of tiles which has been realized with DIGITROLL technology

that merges the ceramic know-how with the digital variability. During its founding, the company was famous for its traditional tiles. Now, it matches new technology with its past tradition to present its history to the market via the tiles. (www.cedir.it)



Alessandra Andalo', Marketing & Sales Manager, Cedir.



Beautiful floor tiles displayed at Cedir's booth.

Casalgrande Padana



Dr. Andrea Verzelloni, Overseas Export Manager, Casalgrande.

At Cersaie 2014, Casalgrande Padana introduced the new Marmoker range from the Granitoker line. Made with cutting-edge digital technology applied to stoneware, the new Marmoker range takes the usual materials and adds the shades, veins, transparency, texture, shine and precious colours of marble, while the performance standards are even better than those of the real thing.

The result of in-depth research into design, materials and formal features aiming to achieve a natural effect, the Marmoker Series is available in 20 stone effects, plus a white ceramic effect. A very wide range of colours and decorative effects, plus two finishes (natural or lapped) and two large sizes, 60x120 and 60x60 cm, that lend themselves to a multitude of combinations. The quality standards and unique design of the material provide designers with remarkable expressive potentials to produce exclusive bespoke solutions.

Standing out for their excellent performance and resistance to wear, impact, slipping, stains and temperature gradients, the Marmoker slabs, where no two are alike, can be used for indoor or outdoor floors and facings, including non-standard applications. The scope of application ranges from residential buildings to

large commercial areas, from public buildings to urban spaces, from the most exacting modern architectures to renovations and conversions.

The Marmoker Series is also available as: Bios Antibacterial with absolute, certified antibacterial properties; Bios Self-Cleaning®, with excellent self-cleaning and pollutant-reducing properties. (www.casalgrandepadana.com)



The Marmoker Series also featured Bios Antibacterial with certified antibacterial properties; Bios Self-Cleaning®, with excellent self-cleaning and pollutant-reducing properties.

Cooperativa Ceramica D'Imola

The company featured its three brands in three separate booths – Imola Ceramica, Leonardo Ceramica and Lafaenza Ceramica. The most prominent product at the booth was the new series of glazed porcelain tiles with hexagon shape. According to Fabio, the trend for this year is hexagon shapes. He said that the tile industry is unable to compete with manufacturers from China and Southeast Asia on the basis of price, so it has to put some ideas on the design aspect. The company also launched some hand-made painted looking tiles and timber look alike marble tiles. Using state-of-the-art machinery, the tile features lines and veins to make it look as natural as possible. Imola also launched a new series of 120x120 cm floor porcelain tiles manufactured with the CONTINUA technology, which the Company already started using 3 years ago. The Company has invested a lot in this innovative technology which permits at the same time savings in costs of production and increase in efficiency. (www.ccimola.it)



Fabio Remondini, Area Manager, Cooperativa Ceramica D'Imola.



Cotto d'Este

The exhibition area of Cersaie 2014 was a perfect expression of Cotto d'Este's innovative spirit and aesthetic research. Professionals of the sector and visitors coming from all over the world had the chance to view the new Cotto d'Este creations and, in particular, three brand new solutions, three examples of high technology and contemporary design that were immediately appreciated. New styles and trends for porcelain stoneware characterised by an exceptional resistance and with outstanding ecological and antibacterial properties:

X-BETON series, "Concrete Surface", all the substance and essential appeal of material, urban concrete transformed into porcelain stoneware slabs with a thickness of 14 mm.



Cotto d'Este's stand at Cersaie 2014.



X-Beton series

KERLITE METAL series, "Metallic Slabs", a surprising metal effect on slabs of Kerlitem 5Plus thin porcelain stoneware. It is ideal for facades and contemporary locations.

CADORE series, "Le Assi delle Dolomiti", the advantages and resistance of 14 mm thick Cotto d'Este porcelain stoneware combined with the natural charm of wood.

The success of existing collections was confirmed once again: KERLITE FOREST, wood-effect with an extraordinary beauty and exceptional technological properties; KERLITE EXEDRA, the 7 most famous types of marble with the exclusive GLOSSY finish and KERLITE MATERICA, the soul of material offered in 8 different colours. Three collections available in the Kerlitem 5 Plus version, a material with a variety of intended uses, which is also ideal for refurbishing without demolishing.

A wide area was also dedicated to the OUTDOOR series of Cotto d'Este. An incomparable technical performance for porcelain stoneware with a thickness of 20 mm, the most versatile solution for exterior floors in residential and public spaces: pathways, terraces, poolsides, parking areas, beach resorts, public parks and other urban areas. The perfect combination of interior and exterior spaces. (www.cottodeste.it)



Kerlitem Metal series



Cadore series



Kerlitem Forest Series



Bluestone Evolution



Plein Air



Stonequartz

Listone Giordano

The company is a leading manufacturer of engineered wood products with sustainability as its key strength. Since 1960, the company has started to use forests in France and it is one of the first companies sensitive to the environment. Listone Giordano long ago began moving in the direction of the responsible use of natural resources, checking the origins of the raw materials and ensuring traceability throughout the entire production process. This approach continues today, with a renewed committee on an international level.

Listone Giordano works closely with designers for flooring ideas. They work with many different renowned designers to produce many different shapes and products. Some of them include Michele De Lucchi, Marco Tortoioli Ricchi, Daniele Lago, and Matteo Nunziati.

At Cersaie 2014, the company launched the Listone Giordano Heritage Collection, which combines the technological precision with the aesthetic research, which enables us to reinterpret in a contemporary way the classic of wood flooring: Oak. Oak is a unique and versatile wood species, which conveys the timeless flavour of the surfaces.



Gianluca Borgarelli, Export Area Manager (left) and Andrea Margaritelli, Sales & Marketing Manager, Listone Giordano



The Listone Giordano Heritage Collection launched at Cersaie 2014.

The Listone Giordano Oak today is enriched with new colours, finishes and surface treatments. At Cersaie 2014, the company's booth was designed to tell the story of a unique product characterised by values ranging from the selecting of the finest raw materials directly in the forest to the special sawing techniques, the marine adhesives, the ecological finish treatments, the precision machining, the sophisticated selection criteria, and the most advanced frontiers of the new shapes and surfaces of contemporary design. (www.listonegiordano.com)

Ceramica Del Conca



Walter Garavalli, Export Manager, Ceramica Del Conca.



Del Conca Kandinsky Dogma. Photo: © Del Conca



Del Conca Da Vinci. Photo: © Del Conca

Del Conca presented Dogma, a new range of polished porcelain tiles with an anti-stain coating and shine finish. Developed using a new 'shine' technology, the surface of the tile is very smooth, shiny, modern looking and easy to clean.

This full body homogeneous tile is suitable for both floor and wall. (www.delconca.com)

Marazzi Group



Fabrizio Montanari, Sales Director Row, Marazzi Group.



Marazzi MyStone - Gris Fleury is ideal for floors and walls covering of indoor and outdoor environments with the ability to create visual continuity solutions between indoor / outdoor. The 20 mm thick version makes MyStone - Gris Fleury also ideal for dry laying on gravel, grass, sand, and for use in driveways paving. Photo: © Andrea Ferrari

This year, the Marazzi Group had three booths at Cersaie 2014. It presented a new collection of porcelain tiles called Mystone. The tiles are engineered stones with highly resistance to heavy traffic and offer high slip resistance for outdoor use. It comes in sizes such as 60x120, 30x120, 75x75, 60x60 and 30x60cm. Another new product was the Marazzi XL Stone in size 120x120 cm. It is extremely heavy but fits nicely on the floor. As a leader in wood alike porcelain tiles, the company introduced a new colorbody fine porcelain stoneware in the size of 20x120cm which offers the same look as wood but better performance in terms of slip resistance, maintenance and cleanliness. (www.marazzi.it)

Oikos



Jonathan Sharpe, Export Area Manager, Oikos.



Oikos showcased its full range of products such as paints, enamels and three dimensional effects for both interior and exterior surfaces at its booth.

Oikos is a leading Italian company which turns 30 years old this year. The company not only produces ecological materials but also makes sustainability its way of doing things. Its own factory is designed with natural lighting to maintain its concept of ecological sustainability. The company has the full range of products such as paints, enamels and coatings for both interior and exterior surfaces. It has High Decoration for Interiors, Solutions for Interior Surfaces and Technical Solutions for Exteriors. Oikos' range of finishes can give different feel on different surfaces. In addition, it can also provide expressive solutions where light, colour and matter blend together. (www.oikos-group.it)



Ceramica Rondine

The company launched Amarcord, which shows that two products can “live” together in the same place. It allows you to combine two materials with different history and origins and also to develop extremely consistent and harmonious schemes in the same or different rooms. Another interesting launch was the Brick Generation, which features the powerful expressive style of classic open brickwork, in a versatile, hard-wearing, beautifully adaptable material: porcelain stoneware.

It is the perfect blend of the contemporary and the timeless – floor and wall coverings that offer an impressively genuine reproduction of the appearance and feel of brick surfaces. The rough texture and natural porosity are featured in a wide range of colours that bring all the appeal of brick back to life in a thickness of just 10 mm. The sizes available – 6x25 cm and 17x34 cm – are equally reminiscent of the uneven appearance of metropolitan walls. (www.ceramicarondine.it)

**Matteo Frassinetti, Area Manager,
Ceramica Rondine.**

Ceramica Sant’Agostino

Sant’Agostino presented a new concept of tiles called Flexible Architecture at Cersaie 2014. Flexible Architecture is an encounter between the creative Philippe Starck and wide know-how of Ceramica Sant’Agostino. With Flexible Architecture, the tile abandons its traditional function of decorative covering and stands out as an integral part of architecture. The joint, which until today represented something to hide and eliminate, with this collection takes up a new different, material and physical feature by becoming itself a modular decorative element.

The company also launched Blendart, a new porcelain stoneware which recreates the fascinating wood grain in a new version: the extraordinary “painting effect” is superimposed on the original nature of the gnarled wooden material then undergo to a further transformation, as if time had wanted to leave an indelible mark. The mix of these elements results in a modern wooden artistic mood by placing it on the market as flooring ideal for contemporary settings. (www.ceramicasantagostino.it)



**Filippo Manuzzi, Brand Manager,
Ceramica Sant’Agostino**



Flexible Architecture on display at the company’s stand.



**Blendart by Ceramica
Sant’Agostino. Photo: © Max
Zambelli**



Flexible Architecture – Grey Mat.

Settecento



Stefano Boscolo, Export Manager, Settecento



The Terrae glazed porcelain tile is made with the latest Digital Technology.

Settecento caters mainly to the upmarket residential market such as houses and villas. It exhibited several tiles with metal, polish and rustic surfaces. Also on display were tiles with irregular hexagonal designs. The tiles on display were the Terrae collection.

Terrae is a glazed porcelain tile manufactured with the latest Digital Technology. The charm and pleasant touch of the old "clay" surfaces are now reviewed with new and contemporary colours and latest technology. The exclusive and innovative "Losange" size comes together in a modular program with 47.8x97 cm – 23.7x97 cm, 47.8x47.8 cm – 23.7x47.7 cm and 23.7x23.7 cm. The metallic and semi-polished decoration "Antique Style" enhance fashion and design of the collection. It is available in six colours: Cemento, Cenere, Marna, Ardesia, Creta and Fango. These tiles are suitable for luxurious residential and outdoor use. (www.settecento.com)

Tagina Ceramiche d'Arte S.p.A.

Tagina presented an innovative concept called Dot-to-Dot, which are ceramic 'pixels' for architecture. Thanks to an innovative technology of high-pressure formation of highly-resistant ceramic stoneware, the Dot-to-Dot elements are created and used as components of ventilated facades or architectural indoor/outdoor coverings. With Dot-to-Dot, Tagina offers a tailor-



Marco Ribacchi of Tagina Ceramiche d'Arte S.p.A.

made solution for architects and designers. They can produce tiles specific to the clients' requirements. It also presented hexagon-shaped and three-dimensional tiles at its stand. (www.tagina.it)

1. Hexagon shaped tiles is the latest trend in Europe and USA, said Marco.

2. Tagina's Dot-to-Dot ceramic pixels for architectural facades.



Ceramiche Piemme



Marco Maleti, Export Area Manager, Ceramiche Piemme.



1355 Castlestone Musk 60x60 cm and Castlestone mix warm 30x60 cm.

At Cersaie 2014, Piemme showcased Castlestone – a new range of high quality coloured-body fine porcelain stoneware. Designed by Piemme Ceramic Industries, the tiles can satisfy the different architects' designs or home interior design. Castlestone represents the connection between the past and the future, the material for new fortresses, those made of design and engineering, of inspiration and technology. A tactile surface with natural shades combined with rectified edges and 3d surfaces, which create the right mixture having an age old spirit and a modern design. (www.ceramichepiemme.it)

Gruppo Ceramiche RICCHETTI



Paolo Salsi, Export Area Manager, Gruppo Ceramiche RICCHETTI.



The Roberto Cavalli Luxury Tiles are the most beautiful and fashionable tiles created by Roberto Cavalli Home.

Gruppo Ceramiche Ricchetti is a multinational company in Italy with 3 brands in Italy and overseas brands like: Bellegrave, CC Hoganas Byggkeramik AB, Evers AS, Hoganas Byggkeramik AB, Hoganas Céramiques, Pukkila Oy AB, Klingenberg Dekoramic GmbH, Cinca. Each brand is independent from one another. The company also featured new wall and floor tiles. It introduced cement look-like tiles called Res-Cover in a new size 80x180cm. It is available in glossy and natural (matt). Its new wall tiles Pittura were available in sizes 25x55cm. In addition, the company unveiled a new collection of luxury tiles by renowned designer Roberto Cavalli. (www.ricchetti.it)

Luce di Carrara



Paolo Carli, President, Fondazione Henraux S.p.A.

Luce di Carrara was created at the beginning of 2000, based on the same principle behind the Made in Italy brand. This entailed combining the uniqueness of natural stone, especially white Carrara marble, with design aptitude derived from a strong industrial tradition in order to create a unique product of innate beauty, but also one that was easy to use, versatile and reliable for contemporary design.

The turning point for Luce di Carrara came in 2013, when the brand joined Henraux. This meant an industrial and technologically advanced heritage but also established working relations with architects, designers and artists. Over time, these professionals have been able to transform marble into a flexible material, capable of preserving its uniqueness yet revealing new forms of expression.

Luce di Carrara is a coherent project. It encompasses both territorial and product coherence, where all stages, from design to production, merchandising and communications, are coordinated by one vision. One vision focusing on a new way of experiencing marble that has its roots in the centuries-old tradition of Henraux. Henraux owns numerous quarries of white, veined, "Arabescato", Statuario, Versilys, etc. marble. (www.lucedicarrara.it)



Luce Carrara Marmo's stand at Cersaie 2014. Photo: © Nicola Gnesi



Luce di Carrara marble showcased in a bathroom setting. Photo: © Nicola Gnesi

Singapore delegates of the Italian Trade Agency's Sponsored Mission Trip to Bologna, Italy for Cersaie 2014, with Paolo Carli, President, Fondazione Henraux S.p.A. (seated). Photo: © Nicola Gnesi



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ArchXpo 2014 Product Highlights

The inaugural edition of ArchXpo 2014, an international exhibition for architecture and the built environment, took place from 29 September to 1 October 2014 at the Marina Bay Sands Convention Centre. ArchXpo 2014 was co-organised by the Singapore Institute of Architects (SIA) and Conference and Exhibition Management Services (CEMS). ArchXpo 2014 was also one of three exhibitions relating to the building industry under the umbrella title of Architecture & Building Services 2014 series (ABS 2014). Over the three days of the exhibition, ArchXpo 2014 along with the International Facility Management Expo 2014 (iFAME 2014) and LED+Light Asia 2014, played host to about 100 exhibitors from 6 countries over 8,000 square metres of gross exhibition space. Here are some new products and highlights shown at ArchXpo 2014.

Getz Bros. & Co (Singapore) Pte Ltd

Getz Bros & Co positions itself as a complete supplier of architectural building materials such as ceilings, access floors, vinyl floors, carpet tiles, system furniture, innovative interior design products, entrance mats and door/wall protection systems. To better reflect this business model, the company unveiled a new company logo to better communicate the company's ability to provide a variety of products to its customers.

The new logo features a band with different colours, each of which represents a product category. "The aim of this rebranding exercise is to strengthen the Group's position as a one-stop provider of building solutions ranging from flooring to ceiling systems," said Anna Marie Palmon, Senior Product Specialist, Marketing Executive, Getz Bros & Co. The colour brands represent each product category in the company: Getz Ceilings, Getz Floors, Getz Walls, Getz Innovative and Getz Office Furniture.

Getz showcased its broad range of products and systems for a complete building solution at ArchXpo 2014. It featured Getz Infini homogenous vinyl flooring with Armourguard; Integrated Ceiling System (Galaxy Metal Ceiling + Dragon Light Fitting); Vega Aluminium Composite Panels, InPro Handrails & Wall Protection; Gradus Entrance Matting, Galaxy Metal Ceiling; Getz Forêt Resilient Flooring; Eclipse Access Floor System; Getz Carpets & System Furniture, Altro Whiterock™ cladding; and Altro Safey Flooring. "We want to show to our clients that we have the whole range of products for their building projects," added Anna Marie.

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



Anna Marie Palmon, Senior Product Specialist, Marketing Executive, Getz Bros. & Co. at the company's booth.



Getz's new logo features a colourful band.

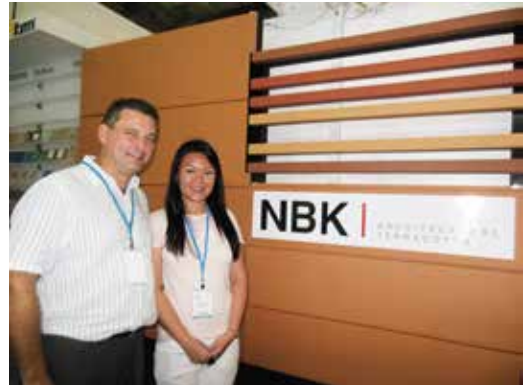
Hunter Douglas Singapore Pte Ltd

Hunter Douglas Singapore Pte Ltd showcased its full range of architectural products at ArchXpo. Products on display included its sun-control solutions, ceiling systems, translucent materials and ventilated façade systems.

ArchXpo provided an ideal platform for the company to promote its NBK™ Terracotta Façade Panels to trade visitors. Terracotta Façade panels blend urban tradition and materials with the latest technology in ventilated façades. Terracotta tiles by NBK (a Hunter Douglas company) offers a variety of sizes, shapes, colours, and finishes. The company offers a complete standard offering – including Large, Mid, Baguette, Solid, and Shingle systems – and full customisation for new construction and re-clad applications.

According to Mr Andrew J Lee, Regional General Manager, Sun Control & Façade Systems, Asian Operations, Hunter Douglas, terracotta tiles by NBK are very popular in Asia due to their unique features. The tiles have been applied in many projects such as residential, schools and commercial buildings.

In response to the increasing demand, the company set up a new factory in Suzhou, China. “The new factory will cater to the specific demands of the Asian market,” said Mr Lee. The new factory has a daily production output of 1,000 square metres. Besides meeting the highest standards for both architecture and design, the terracotta façade panels are environmentally friendly. “The façade panels are made of clay which is a very natural and green product,” added Mr Lee.



Andrew J Lee, Regional General Manager, Sun Control & Façade Systems, Asian Operations, Hunter Douglas (left) and Sidney Tan, Façade & Sun Control Executive, Hunter Douglas Singapore Pte Ltd.

Key Features

- Proprietary facade solutions by NBK move water away from building envelopes, using a ventilated and pressure-equalized system.
- Natural chimney effects not only keep the building dry to reduce maintenance, but also help save energy.
- Wide range of profiles for surface design, from finest textures to strongly profiled structures. Our line includes natural and peeled surfaces as well as horizontal profiles.
- Specialisation in custom applications. Sizes, shapes, and finishes to meet any requirement.
- Ideal for both new construction and over-cladding projects.

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

Advance Sports Technologies Pte Ltd

Advance Sports Technologies Pte Ltd showcased a premium range of architectural finishes such as artificial green walls and artificial turf from GreenTurf at ArchXpo 2014. GreenTurf uses the latest synthetic turf technologies to make turf that only looks natural, but feels natural too. Be it flooring, walls, ceilings, rooftops, green walls, for indoors or outdoors, the company's range of premium synthetic turf and plants gives you the true freedom to create softscapes anywhere you want.

Combining the latest in polymer technologies and aesthetics, Green Turf has achieved exceptional standards in artificial turf and green walls. Its products are durable and safety-tested by internationally recognized bodies, helping you to design and create with greater confidence.

Its GAIA artificial turf series, which has been awarded the Singapore Green Label, manifests its commitment to strive for environmentally-friendly and sustainable solutions. GreenTurf GAIA-Landscape is the only fully recyclable system designed especially for home and commercial landscaping. It uses a revolutionary backing system, which allows it to be recycled without additional processing, ensuring responsible end-of-life management. It is made from recycled plastics, with 52.7 percent recycled content by weight, providing a significantly lower carbon footprint.



Advance Sports Technologies Pte Ltd won the Gold Award in the Best Boutique Booth category.

“Our artificial green walls not only looks natural, but feels like the real thing. In addition, it is an environmentally friendly solution which needs minimal maintenance and can withstand the outdoor elements” said Vinz Soh, Sales Manager, Advance Sports Technologies Pte Ltd.

The company has supplied GreenTurf to a wide range of projects in Singapore such as condominium, bungalow rooftop, penthouse roof terrace, shopping mall playground, offices and commercial buildings.

GreenTurf is distributed in Singapore through Advance Sports Technologies Pte Ltd. For additional information, visit www.greenturf.asia.

ParexGroup Pte Ltd

ParexGroup Pte Ltd claims to be the first company in Singapore to offer a comprehensive range of low VOC waterproofing products and environmentally friendly tile adhesives with SGBC 3 ticks for eco excellence, allowing projects to get extra points for their Green Mark scoring. In addition to making their products eco-friendly, the company has also designed the products to enhance productivity on site. The products include:

Davco Rejuvenation Grout – A ready-to-use, mould and bacteria-resistant grout that allows you to give new life to almost any tiled area.

Davco NS Grout Rapidex – A free-flowing grout that is specially formulated with high performance cement to achieve rapid strength gain, high fluidity with non-shrink properties and high durability.

Davco K10 Green Sheet R – A high-performance, multi-layer, fabric reinforced, waterproofing system that allows for high build up thickness to overcome unevenness of concrete roof surfaces, forming a flexible and yet tough waterproofing membrane with enhanced durability.

Davco Floor Bond – A thick and thin bed cement based tile adhesive specially formulated for installations where unevenness of the substrate or tiles requires application layers to be up to 20mm thick.

Lanko Panel Grout Eco – A single component, polymer modified, non-shrink grout that is ideal for jointing of both Precast Concrete Panels and Light Weight Concrete Panels.



June Tay, Technical Specifier, ParexGroup Pte Ltd (left) and her colleague.

“Our solutions are developed to help projects achieve the buildability design score and Green Mark certification set by BCA,” said Ms June Tay, Technical Specifier, ParexGroup Pte Ltd. For more information, visit www.parexgroup.com.sg.

Acrylic Global Pte Ltd

Planning and conceptualising quality aquarium and pool systems involve many components and complexities.

Acrylic Global Pte Ltd provides a total customised aquatic design solution, from direct site preparation to design and installation. The company showcased its solutions at ArchXpo 2014.

The company offers a full line of architectural acrylic products for both indoor and outdoor projects. It can construct and build innovative designs in any form: Cylindrical (Seamless), Pyramidal, Hexagonal, Oval, U-shaped, Rectangular or combinations of these. The possibilities are endless.

For more information, contact the company at tel (+65) 6338 7878.



Underwater tunnel can add a magical dimension to your aquarium design by immersing spectators directly.



New technology with Acrylic Aquarium design can be elevated from the floor and appearance by adding clear acrylic.

National Tiles Pte Ltd



Michael Jiang, Executive Director (left) and Angel Luk, Managing Director, National Tiles Pte Ltd.

National Tiles Pte Ltd, a leading supplier of ceramic tile, mosaic, marble, granite, vanity top, faucet and sanitaryware, unveiled a new range of Italian tiles called Skytech. According to Mr Michael Jiang, Executive Director, National Tiles Pte Ltd, the tiles have been manufactured using the latest tile technology resulting in a thickness of just 4mm.

The tiles which come in the size 0.6x1.2 metres can be made as large as 1.6x3.4 metres. “We feel that the tile is a suitable product for the Singapore market and we want to promote this product here,” said Mr Jiang. Skytech tiles are the perfect design solution for floors or walls whether in a commercial or residential environment.

For further information, visit www.nationaltiles.com.sg.

Sennheiser Electronic Asia Pte Ltd

Sennheiser Electronic Asia Pte Ltd, a leading player in the audio industry, showcased a wide range of audio solutions that targets the specific design needs for the architectural industry at the ArchXpo 2014 exhibition.

"This show provides an avenue for us to reach out to architects and interior designers. Through the introduction of the wide potential and capabilities of our audio equipment, we aim to value-add to their design and conceptualisation process," said Victor Tan, Head of Integrated Systems, Sennheiser Electronic Asia Pte Ltd

The company showcased various products at the exhibition, including Sennheiser Team Connect; an all-in-one audio solution perfect for small to mid-size conferences, K-Array Anakonda; flexible speakers designed to fit into awkward, out of reach places, Apart Mask2; smallest satellite loudspeaker allowing integration into any interior without compromising on sound quality, and the Jarre Aerobull; aesthetic bulldog speakers designed in France.

For more information, visit www.sennheiserasia.com.



From left to right: Hans Chia (Integrated Systems Product Specialist), Kimberly Luo (Senior Marketing Executive), Matthew Tan (Sales Manager) and Carole Liang (Demand Planning Manager)

Nippon Electric Glass

Nippon Electric Glass, a manufacturer and distributor of specialty glass products, showcased its Neopariés crystallised glass ceramic at ArchXpo 2014. The product with its unique, light-reflecting textures and variety of surface structures including curved surfaces, offers design flexibility and lend dynamic expressiveness to buildings.

Neopariés is more resistant to weather, acids, alkalis, oils and other chemical substances than natural stone. It does not also absorb water. This makes Neopariés suitable for internal and external wall cladding, table and counter tops.

Neopariés is made using a highly specialised technique of glass crystallization. This process produces tiny needle-shaped crystals that give Neopariés its soft colour and marble-like texture.

Neopariés has been used in many projects worldwide. Notable examples include The Delegation of the Ismaili Imamat (Ottawa, Canada), The Fairmont Dubai (Dubai, UAE) and Delphi Orchard building (Singapore).

Neopariés and other products from Nippon Electric Glass are available in Singapore through its agent Kowa Asia Pacific Pte Ltd. For further information, tel (+65) 6222 0025.



Neopariés by Nippon Electric Glass at Delphi Orchard, Singapore.

Milan Eco Wood Pte Ltd

Milan Eco Wood Pte Ltd is a producer of its own Milan Eco Composite Wood that looks and feels exactly like real wood. The company has at least 150 profiles and is still developing new products to meet the growing demand.

"We have a full range of products from ceilings to walls, floorings, external decking, timber tube series and acoustic panel series," said Mr Steve Lim, General Manager, Milan Eco Wood Pte Ltd.

Milan's Composite Wood is made from various combinations of wood agriculture and is 100 percent recyclable. "We put recycled materials to good use, helping to reduce our reliance on timber, thus saving the environment," said Mr Lim.

Milan Eco Wood composite is made of 60 percent wood and 40 percent non-toxic minerals, which are environmentally friendly and free of chemicals with no harmful residue. Milan Eco Wood composites are waterproof, naturally termite-free and are resistant, thus ensuring an ease of maintenance. The product has also obtained the highly coveted Green Label certification.

Milan Eco Wood shared its booth with Chop Ching Hin Pte Ltd at ArchXpo 2014. Chop Ching Hin is a major supplier of softscape and landscape materials in Singapore. For more information, visit www.milan-ecowood.com and www.chopchinghin.com.



Steve Lim, General Manager, Milan Eco Wood Pte Ltd (left) and Zac Toh, GWS™ Team Head, Chop Ching Hin Pte Ltd.



14-16 Oct 2014
Singapore Expo
Singapore

BuildTech Asia 2014 calls for construction productivity through innovative technologies

BuildTech Asia 2014, which was held from 14-16 October 2014 at the Singapore Expo, covered the entire spectrum of the built environment products from construction technology to facilities management.

BuildTech Asia 2014, organised by Sphere Exhibits and hosted by the Building and Construction Authority (BCA), was part of a week long series of events under the Singapore Construction Productivity Week. The exhibition was officially opened by Ms Grace Fu, Minister, Prime Minister's Office, Second Minister for the Environment and Water Resources and Second Minister for Foreign Affairs.

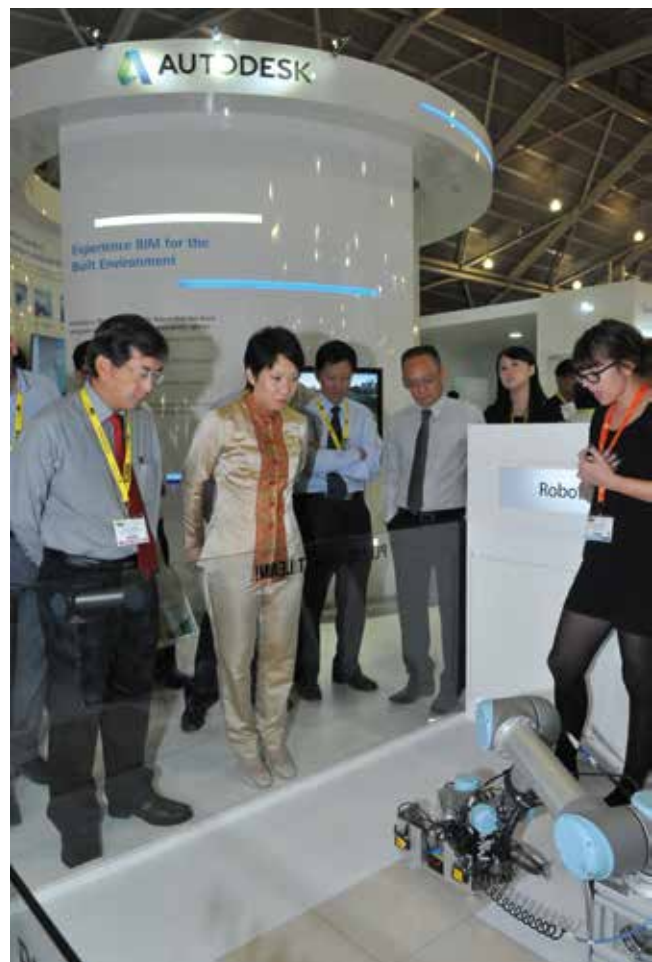
Now in its fourth year and featuring over 200 exhibiting brands from nine countries (Australia, China, Germany, Ireland, Hong Kong, Malaysia, Korea, Singapore and Taiwan) – showcasing everything from construction equipment and technology to building products and facilities management solutions – the exhibition provided a golden opportunity for hundreds of visitors to source new products and services.

This year's BuildTech Asia provided a platform for the exchange of knowledge and ideas for a more streamlined workflow, from the sourcing of building materials to the management of building facilities. A total of 6,300 visitors had attended the exhibition over the three days.

Mr Chua Wee Phong, Chairman of Sphere Exhibits Pte Ltd, said: "We are extremely pleased with the interest that this year's edition of BuildTech Asia has received from the industry. By bringing together the latest end-to-end technologies for the built environment in a very hands-on format, we are equipping the industry with the most relevant tools and techniques to pursue productivity gains that will transform the future of the built environment."

Dr John Keung, CEO of BCA said: "Technology is one of the major contributors to improve productivity in many sectors and the built environment sector is no different. As part of the Singapore Construction Productivity Week, the BuildTech Asia exhibition plays an integral role in bringing to life the latest game-changing technologies available today that will help firms improve their business processes and increase the productivity of the workforce."

BuildTech Asia 2014 focused on advanced productive technologies that have been identified to play important roles in transforming construction productivity. They included Building Information Modelling (BIM), Construction IT (smart technologies such as Radio Frequency Identification, Biometric Readers and



Minister Grace Fu viewing a robotic tiling machine at BuildTech Asia 2014. Photo: © Sphere Exhibits

Project Management Systems), Prefabricated structural systems such as precast construction, steel construction and modular housing system; and Prefabricated architectural systems such as drywall, prefabricated bathroom unit, and engineered wood for timber floor.



Visitors exploring BuildTech Asia 2014. Photo: © Sphere Exhibits

Over 12 trade associations and business delegations from Indonesia, India, Malaysia, Myanmar, Russia and Vietnam attended BuildTech Asia 2014 to explore the latest technologies on the show floor, key project sites in Singapore and manufacturing

facilities. In addition, local trade delegations also networked and established business relationships while pursuing commercial partnerships on the trade floor.

Facilities Management Solutions Expo 2014 was held concurrently with BuildTech Asia 2014 to promote better integration across the building and construction and facilities management sectors.

There were also two key conferences to address the latest trends in the built environment sector. Jointly organised by the Sphere Exhibits and Singapore Institute of Building Limited (SIBL), the inaugural Facilities Management Conference 2014 addressed the transformation of facilities management through effective and productive use of energy-efficient resources and smart innovation. The Environment Sustainability Conference 2014, themed 'Building Sustainably', highlighted a broad range of topics from the use of sustainable design, green building materials and energy efficiency in order to promote sustainable practices in the built environment. It was organised by SCAL and supported by Sphere Exhibits.

For more information, visit www.buildtechasia.com.

Okayi (S) Pte Ltd

Okayi (S) Pte Ltd is an established manufacturer of high quality Expanded Metal. With over 30 years of experience in this field, the company uses only high quality metal plate to manufacture its products.

At BuildTech Asia 2014, Okayi showcased the different applications of Expanded Metal and its perforated products. Expanded Metal is produced by slitting and expanding a metal sheet to form a continuous mesh. In addition, Expanded Metal can be manufactured from various metals including mild and stainless steel, aluminum, titanium and copper. It is available in either horizontal or vertical orientation.

"The applications of Expanded Metal are very wide. You can use it as a small covering or as a big walkway mesh that can be seen at the Gardens by the Bay. Others include security and industrial applications such as security fencing in army camps," said Mr Patrick Thia, Business Development Executive, Okayi (S) Pte Ltd.



Patrick Thia, Business Development Executive, OKAYI (S) Pte Ltd and his colleague Malcolm.



Applications of the Expanded Metal include: walkway mesh, sunshade, and fencing. The security fencing is most suitable for use in prisons, military and police camps, power stations, reservoirs, airports, and etc. The barbed expanded metal security panel can be manufactured using stainless steel and hot dipped galvanized mild steel. Anti-climb expanded metal has been developed for perimeter fencing and internal corridors of prisons.

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

On the left: The different applications of Expanded Metal by OKAYI.

Canon Singapore Pte Ltd

Canon Singapore Pte Ltd presented the Océ PlotWave 360 (PW360) and the new Canon imagePrograf 781 large format printer (LFP) at BuildTech Asia 2014.

The Océ PW 360 is a cloud integrated, instant LFP which offer users improved image quality, faster image output and an intuitive user experience to improve productivity and efficiency in architectural, education, government, construction, engineering and manufacturing Industries

The Océ ClearConnect multi-touch Screen allows you pan, swipe and spread into ultra easy printing. Besides accessing your document directly at the printer from an USB stick, a network location or in the cloud, you can also print directly from your smart devices, with the WiFi infrastructure of your company via the Océ Publisher Mobile app.

In addition, Océ PW360 allows you to work faster by reducing waiting time and using less energy. You can print up to 6 A1 plots in 1 minute, thanks to the energy efficient Océ Radiant Fusing Technology.

You can print complex drawings correctly the first time with the 'What You See Is What You Print' preview function which reduces expensive errors. The Océ PW360 maximizes your productivity and minimises your print and labour costs.

The newly launch 5 colour iPF781 on the other hand is designed to accomplish speedy and high-quality printing of CAD (Computer-Aided Design) and GIS (Geographic Information Systems) data for blueprints, product specifications, bill boards, banners, posters, signage and other media, which require precision printing.

Alongside the latest improvements in speed, performance and lower operating costs, this LFP also delivers improved image quality and colour vibrancy, made possible with a new magenta ink.

When paired with the imagePROGRAF Print Utility - a newly developed, free-of-charge mobile application, users of the iPF781 will be empowered to output large-format documents from an iPad across a wide range of usage environments. This is provided both the iPad and the printer are connected to the same network. **For more information, visit www.canon.com.sg/home.**



Yeo Sock Hwa (on the left in the middle) and her colleagues at the Canon Singapore booth.

MEA China Ltd

MEA China Ltd, subsidiary of MEA Group, exhibited its range of drainage systems at BuildTech Asia 2014. MEA is one of the world's leading manufacturers and suppliers of linear drainage systems.

"We want to showcase our full range of drainage systems at the show here," said Mr Henry Hou, General Manager, MEA China Ltd.

The company claims to have the unique advantage of being able to produce gutter channels from polymer concrete and regular concrete as well as GRP to match your specific application requirements.

The MEA® DRAIN Supreme is a range of drainage solutions for heavy-load to city applications. The channel system transfers the advantages of polymer concrete in a unique manner to heavy-load applications: the extremely robust and practically wear-free design of channel bodies ensures maximum reliability.

The MEA® RIN is a lightweight and high performance drainage solution. It allows installation of channels without mechanical support and with significantly less labour than with comparatively heavy polymer concrete or concrete channels. Depending on the individual installation application, between 15 percent and 42 percent of time and labour costs can be saved.

The company has supplied its products to many notable projects such as the Formula One race course in Bahrain, the Royal Air Force airbase in Wattisham (Suffolk, UK), the Mercedes and Volkswagen test tracks in Emden, Denmark and Shanghai (China) respectively, the international airport at Reykjavik, (Iceland) the Vnukovo (Russia) and Warsaw (Poland) airports, as well as other major construction projects such as the complete renovation of several hundred petrol stations in Rumania.

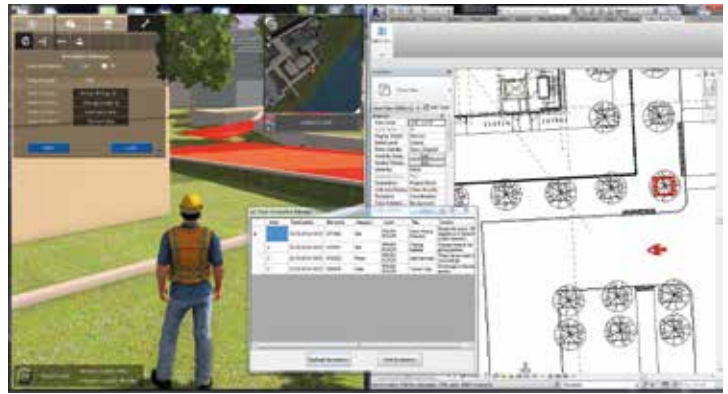
For more information, visit www.meachina.com.



Henry Hou with the full range of MEA drainage solutions.

Redstack Asia Pte Ltd

REDSTACK™ Singapore provides a professional Scan-to-BIM 3D modelling service, utilising the latest technology to convert point cloud and laser survey data into sophisticated 3D BIM models. The company's BIM 3D models help in visualising the architectural design process. REDSTACK™ offers Scan-to-BIM modelling services for Architectural & Structural firms, Retailers, Main contractors, consulting engineers and MEP Engineers by capturing point cloud data from the existing building to create accurate models for as-built purposes as well as for retrofit, refurbishment and renovation projects. At BuildTech Asia 2014, the company showcased several of its solutions. One notable solution was Fuzor. Fuzor creates a live link with Autodesk Revit to produce high quality real-time rendering of architectural projects instantly and effortlessly. Live Link is the connection Fuzor and Revit create between each other. Once this connection is created, Fuzor and Revit will be able to communicate, passing information back and forth. The Live Link is what allows Fuzor to instantly update and reflect the modifications done in a Revit file. Therefore Fuzor creates a perfect visual platform to communicate BIM data and design effectively. **For further information, visit www.redstackgroup.com.**



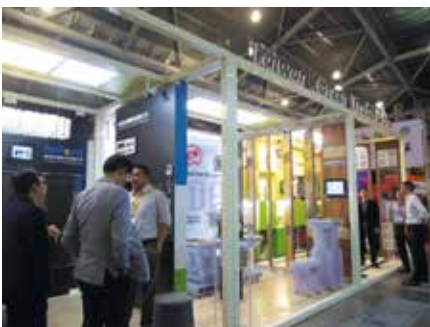
REDSTACK™ Fuzor

Taiwan Green Demo House

The Taiwan Green Trade Zone presented the Taiwan Green Demo House at BuildTech Asia 2014. The House showcased 12 companies from Taiwan specialising in lighting products, green brick, fuel cell power module, solar PV technology, wood floors and etc.

Commenting on the participation, Janice Tseng, Integrated Marketing Division Senior Specialist, Green Trade Project Office, Ministry of Economic Affairs, said: "It is our first time here in the BuildTech Asia show and our objective is to bring our green products outside Taiwan and promote it in Singapore because the green building movement here is very strong."

Shaped like a house, the Taiwan Green Demo House was conceived by the Green Trade Project Office (GTPO), which has been promoting green trade work since 2011. Breaking from the traditional trade show model, the Taiwan Green Demo House was launched in 2013 and has quickly been recognized internationally for its innovative modular approach to delivering various green quality products and services.



The Taiwan Green Demo House showcase at BuildTech Asia 2014.



Janice Tseng standing in the Taiwan Green Demo House at BuildTech Asia 2014.

The Demo House is based on three key principles: 'module', 'easy to assemble', and 'reusable'. Besides, the design concept of Taiwan Green Demo House is to present the applications of the high-quality green products and services in a 'Reality' way. Along with the ICT control system, visitors to the Demo house, just like they are at real home, offices, retailers or any format of space, can experience the products and services contributing to the environmental protection, energy saving and security in daily life.

Companies which exhibited at the Taiwan Green Demo House included: CB Lighting Co Ltd, EPADA Inc, M-Field Energy Ltd, NexPower Technology Corp, Autotronic Enterprise Co Ltd, Easyup Enterprise Inc, J-Energy International Technology Co Ltd, Nan Yang Chemical Co Ltd, Renato lab, SunValue Co Ltd and Ua Wood Floors Inc.

For more information, visit www.greentrade.org.tw.

Rinata (S) Pte Ltd

Rinata (S) Pte Ltd launched Belka, a 100 percent natural cotton based material, for interior wall and ceiling decoration. Whether it is a room transformation, feature wall, house or building, Belka offers a unique combination of performance; unparalleled style and versatility that will help the occupant make a statement.

According to Rinata, Belka is a modern day and low maintenance alternative to paint and wallpaper. It offers an easy and cost effective way to add colour, texture and style to walls and ceilings. "Belka does not need any surface preparation. It can be readily applied to any surface including plaster, cement, wood, metal, glass and all painted surfaces (acrylic, water or oil based). You can also use the product to cover a wall with surface flaws such as unevenness, holes, gaps and cracks," said Mr Robin Kuok, Director, Rinata (S) Pte Ltd.

Belka is offered in the form of a bag cotton wool. By adding the proper proportion of water to the powder, the final product will be ready to use. It is user friendly, clean and easy to use. In addition, Belka is odour-free, thermal insulated, highly resistant to humidity, acoustic insulated, fire resistant, easy to repair and anti-static.

For more information, visit www.belka.sg.



Mr Robin Kuok showcasing the Belka product at his booth at BuildTech Asia 2014.

Oxley Building Materials Pte Ltd

At BuildTech Asia 2014, Oxley Building Materials Pte Ltd introduced 'BUBBLEDECK' a unique patented system, which radically improves building design and performance while reducing overall cost.

According to the company, the BUBBLEDECK system virtually eliminates dead weight concrete from the middle of a floor slab by incorporating recycled plastic bubbles as a void. The system can facilitate up to 50 percent longer spans between columns and the construction does not require beams, which allows architects greater design freedom. Off-site prefabricated, fewer vehicle movements and crane lifts and simple installation all combine to minimise operating and health & safety risks. As a result, it's a no brainer that BubbleDeck's precast concrete system is the low-risk way to build large and complex sustainable developments.

BUBBLEDECK is particularly advantageous due to its load bearing behaviour with equal efficiency in longitudinal as well as in transverse direction by the use of embedded spherical hollow bodies (bubbles). Reducing the amount of concrete in a BUBBLEDECK slab makes a significant contribution to the environmental



The Green Committee of Oxley Building Materials and BUBBLE DECK Construction.

impact. Not only is concrete usage reduced up to 35 percent within a building structure but the additional benefits can be realised through reduced foundation sizes. Replacing 100 kg of concrete by 1 kg of recycled plastic helps in reducing construction energy and carbon emissions. BUBBLEDECK structures are also sustainable with the system allowing frame re-use for future purposes. The envelope and all internal work can be removed from a BUBBLEDECK building and the original frame simply refitted for a new purpose.

"We want to market the product in Singapore because you can do the same job with less labour and in a shorter period of time. This will help to meet the labour shortage problem in the construction industry here," said Lisa Teo, Business Development Manager, Oxley Building Materials Pte Ltd.

Oxley Building Materials Pte Ltd is the distributor of BUBBLEDECK in Singapore. The product is manufactured by BUBBLE DECK Construction Sdn Bhd in Malaysia. For more information, visit www.bubbledeck.com.my.



Every part of the BubbleDeck slab can be delivered on site in a precast state, eliminating the need for onsite formwork.

SEF Group

The SEF Group is a leading provider of innovative and high quality construction, engineering and interior decoration solutions to a wide range of clients in the local and international markets through integrated and tailored services. Over the years, the company has established a solid reputation and provided successful build solutions in a variety of industries, from Government, Commercial, Industrial and Educational Institutions, to Residential Spaces. Currently, the company is setting up an integrated construction and prefabrication hub called the "SEF Spacehub". "When completed in early 2015, the SEF Spacehub will be Asia's most integrated hub for construction and prefabrication," said Mr Raymond Chan, Project Director, SEF Group.

The SEF Group comprises of:

SEF Interiors (S) Pte Ltd

SEF Interiors is an independent business unit capable of undertaking interior fit-out works for high-end hotels, luxury residences, conservation buildings, corporate offices, and retail and commercial developments. SEF Interiors offers decorative interior fit-out as well as interior addition & alteration, with extensive experience in both the Singapore market and in the Middle East. To attain greater control over project timing, costs and quality assurance, SEF Interiors integrated its high-end cabinetry fabrication works and fit-out business, allowing further expansion to undertake FF&E projects. Completed projects by SEF Interiors include Marina Bay Sands Integrated Resort, Singapore; Krisflyer Lounge, Changi Airport T3, Singapore; Deira Centre Hotel, Dubai, UAE; Oceana Residences, Dubai, UAE; Toko Restaurant, Dubai, UAE and etc.

SEF Construction Pte Ltd

SEF Construction was incorporated in 1994 and serves as the primary contractor for planning, coordinating, managing and undertaking works for new construction, addition & alteration, and interior fit-out. SEF Construction can handle a wide range of projects for the private and public sectors encompassing high-end



Mr Raymond Chan (extreme right) and his colleagues at the SEF Group's stand.

hotels, luxury residences, heritage buildings, recreation facilities, retail malls, commercial offices and mixed-use developments. The company has completed many projects including Marina Bay Sands Integrated Resort, Singapore; Movenpick Heritage Hotel, Sentosa, Singapore; HDB Teban View, Singapore; Oceana Residences, Dubai, UAE; SpaceHub, Singapore; 112 Katong Mall, Singapore; Al Ain Stadium, Dubai, UAE; and etc.

SEF Engineering Solutions

SEF Engineering was formed in 2013 to provide creative and innovative solutions in precast and modular design, costing, production and overall project management. With a growing, dynamic team with wide experience in project, design and production management, SEF Engineering Solutions is fast becoming a key solutions provider, working closely with its partners from project conception through to successful delivery.

For more information, visit www.sef.sg.

FLIR Systems Co Ltd

FLIR Systems Co Ltd launched the new FLIRTG165 Imaging IR Thermometer at BuildTech Asia 2014. Bridging the gap between single spot IR thermometers and FLIR's legendary infrared cameras, the TG165 gives users the advantage of thermal imaging to help them discover temperature issues they cannot see with typical spot radiometers.

Equipped with FLIR's exclusive Lepton® micro thermal camera, the TG165 helps you identify heat patterns, reliably measure temperature, and store images and data for reports. And with a spot ratio of 24 to 1, you can take accurate readings from safer distances.

"In the TG165, we have included our 'imaging' technology into the thermometer, to enter a new category of low-priced instrument," said Mr Raymond Lau, Sales Manager – ASEAN, Thermographer (ITC Level 1), FLIR Systems Co Ltd.

The TG165 is simple to operate, featuring intuitive menu icons and dual laser pointers. For more information, visit www.flir.com.



Mr Raymond Lau holding the new FLIR TG165 Imaging IR Thermometer.

Yamagen MT&T (S) Pte Ltd

Yamagen MT&T (S) Pte Ltd showcased a wavy, barrier-free handrail called the J-Wayves at BuildTech Asia 2014. The wavy handrail is a unique alternative to the straight handrail. The straight handrail is usually either difficult to grip or too high for wheelchair users. Hence, it is not too user-friendly for the elderly, young children and the disabled.

The J-Wayves uses a creative and universal approach to design, which is inclusive and aesthetically pleasing. The unique point of J-Wayves is the wavy design patented by QUNETTO International Co Ltd. The name is derived from "Japanese", "Waves" and "Ways". The design is able to achieve what a handrail must do for old people and the handicapped. It is highly grippable, non-slippery, sustains the weight of the person, pulls the body easily and prevents accidents. It sharply decreases the moment on knees and therefore it reduces the tiredness of its users, especially the elderly. The Engineering department of Shiga University in Japan has measured the load to knees. The horizontal shape of the J-Wayves sustains the body and its design reduces about two-third of the load.

The J-Wayves is highly recommended for HDB flats, commercial buildings, hospitals, schools and parks. It is suitable for installation for stairs and footbridges, ramps, buses, swimming pool, toilets and bathrooms. "The product is very popular in Japan and we hope that it will do well in Singapore because of new construction and refurbishment projects," said Mr Daisuke Yamaga, Managing Director, Yamagen MT&T (S) Pte Ltd. The percentage of old people's population has sharply increased in Singapore. Therefore, the public facilities must be improved for them.



Photos of the J-Wayves installation at the YIH Building in NUS, Singapore.



Mr Daisuke Yamaga, Managing Director, Yamagen MT&T (S) Pte Ltd (extreme right) with the J-Wayves handrail in the background.

The J-Wayves has a big potential in Singapore because of HDB upgrading projects, as well as new MRT stations construction. Since its introduction in Singapore, the company has already completed one project. It installed the J-Wayves handrail at the YIH building in NUS in June 2014. For more information, visit www.j-wayves.com.

SunValue Co Ltd

SunValue Co Ltd, a Taiwan based company, presented three innovative and eco-friendly products at the exhibition – Solar Power Brick (SPB), Light Guiding Sticker (LGS) and Temperature Regulator Film (TRF). Commenting on the products, Mr Bill Tseng, Vice President, SunValue Co Ltd said, "Green technology is necessary for our next generation. But we need to strike a balance between price and environmental protection. Therefore, we have innovated the SPB, LGS and TRF to create a 'win-win' situation in people's lives."

Solar Power Brick (SPB)

SPB is especially made for vertical to ground installation of solar PV systems. Resembling a normal glass brick, the SPB is small and easy to be applied at many places to transform existing buildings into eco-friendly ones. It can also be installed at roof, balcony, walls, any kind of vertical to ground constructions, such as: building wall, fence, pillar, lantern, bus stop, sound proof wall, emergency



Bill Tseng holding the Solar Power Brick in his hands. On his right hand side, the blue coloured map of Taiwan has been made using the company's Light Guiding Sticker (LGS).

charging station and installation art. The electricity from the SPB can be generated at any sunlight incidence angle. It is made from eco-friendly materials and a "green" manufacturing process.

Light Guiding Sticker (LGS)

Light Guiding Sticker (LGS) can be easily pasted on any camber of transparent

material to transform the material into a light guiding material. It can guide the light from the material edge to surface and decrease lots of cost of traditional light guiding board. Moreover, LGS also increases the usage of different shape of lightings, such as: thin billboard, street sign, lantern, light lamp, decoration and installation art.

Temperature Regulator Film (TRF)

The TRF can absorb IR (Infrared rays) to keep heat near itself, meanwhile, allow enough UV (Ultraviolet Rays) to pass through. This function helps a lot to stabilize the inside temperature to save energy without harming Photosynthesis. The company has two major types: PET type (with back glue) and PE type (no glue) to different type of applications. The TRF can be used in greenhouses and buildings in high latitude area. It is highly eco-friendly and user-friendly.

For more information, visit www.sunvalue.com.tw.



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The 12th International
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- 8 SPECIALIZED CONFERENCES



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TWO DECADES OF
CONSTRUCTION EXCELLENCE

WORLDBEX

MARCH 2015

WORLDBEX completes 20 successful years

WORLDBEX, which celebrates its 20th anniversary in 2015, will explore the theme “Building Visions in the Realm of ASEAN Integration” to tap on the opportunities that will be created by the regional economic integration by 2015.

11-15 Mar 2015

World Trade Center Metro Manila (WTCMM), WTCMM East Wing A & B and the Philippine Trade Training Center, Manila, Philippines

As the Association of Southeast Asia nations awaits for the great economic phenomenon known as the ASEAN integration at the dawn of 2015, WORLDBEX, one of Philippines’ largest building and construction exhibitions, aims to tap on the opportunities that it will create for the promotion and betterment of the Philippine building industry.

WORLDBEX 2015 will take place from 11-15 March 2015 at the World Trade Center Metro Manila (WTCMM), WTCMM East Wing A & B and the Philippine Trade Training Center. WORLDBEX 2015 will cover a total exhibition area of 30,000 square metres. Now entering into its 20th year, WORLDBEX 2015 aims to break visitor records and surpass industry expectations.

With the merging of Southeast Asian economies into one luminous and pulsating network, Philippines will be expecting a stronger capital inflow and investments – putting the country at a very strategic position. With more industry players setting its sight on the Philippines, a rapid increase in construction activities is anticipated with a strong need to improve modernisation and urban development.

WORLDBEX 2015 aims to ensure that no opportunities will be left untapped and no areas of potential will be left unexplored. Amidst the economic movement, it aims to materialize all projected goals within the Philippines construction industry. WORLDBEX 2015 will position itself as a powerful tool for industry players to connect with the right network for this new era and discover the next big thing in this intensely competitive atmosphere. It is vital to recognise that without the impetus to create and build, visions remain merely as visions. And WORLDBEX 2015 aims to be exactly that, not only as a provider of direction and guidance but also to be the catalyst that will usher in a new era for the construction and building industry. Unlike any other year, WORLDBEX 2015 will celebrate its 20th year in the industry with the biggest exposition and events ever.



The exhibition will be a premium showcase for manufacturers to unveil new developments and innovations in building products, services and technologies. The exhibition attracts hundreds of attendees each year, many of whom are architects, interior designers, landscape architects, building professionals, developers, contractors, engineers and students.

For more information on WORLDBEX 2015, tel (+63) 2 6569 239, email info@worldbex.com or visit www.worldbex.com.

Interview with Mr. Joseph L. Ang, Founding Chairman of Worldbex Services International

On the 20th anniversary of WORLDBEX, Founding Chairman of Worldbex Services International, Mr. Joseph L. Ang (pictured) spoke to Southeast Asia Building on the successful growth of the exhibition and its future direction.

Q: Congratulations on the completion of 20 years by WORLDBEX. How do you reflect on your achievement of being in this industry for two decades?

A: It has been a great journey for us this past two decades. Being in the industry for two decades really shows that the sacrifices and hard work of people behind the exhibition has paid off. But aside from that, it challenges us to do better and live up to what WORLDBEX has established in the past. We are more than happy to be a part of the success of most small companies that started in the Building and Construction industry 20 years ago and grow together with them.



Q: What are some of the key factors that have contributed to the exhibition's success?

A: WORLDBEX is not just a place where consumers or end-users could go to shop; it is also a place where dreams of small building and construction companies came true and a way for the established ones to reach out to their customers. It has become a platform, a middle man, between our exhibitors to their end users. But the factor that truly contributed to our success was our strong belief in the potential of the Philippines as well as to the talents of the Filipinos. WORLDBEX has become a powerful tool for people to showcase and experience what Philippine Building and Construction industry has to offer and witness its full potential blossom over the years, truly living to its principle that what we are doing is beyond exposition.

Q: What kind of changes has WORLDBEX gone through in the last 20 years?

A: When WORLDBEX started, we already had 156 booths, that time we already broke records in exhibitions and we were just simply exhibiting products. But over the years, we were able to come up with activities to leverage the quality of our event. We added galleries like the Interior Designers' and Architects' Gallery, held awards for best booths and also added Pavilions for our foreign exhibitors. There are also seminars being held by industry professionals, both here and abroad. There is also the Business Matching Service to help our exhibitors connect with the right people to engage their businesses in. Over the years, we were also able to partner with different organisations to fully achieve the goal of our event and also help them achieve theirs. With that, we were able to host several competitions like Obra Maestra, where participating schools get to compete and showcase their best students in interior design, and the BluPrint AVID Award, a competition to design a state-of-the-art Museum of Philippine Contemporary Art. These changes help us get to where we are today and to continuously be the largest and most-attended exposition in Asia.

Q: What are the trends do you think will drive the growth in the Philippine building industry?

A: The continuous need for building infrastructures that would stand the test of calamities and other fortuitous events would contribute not just to the growth of the building industry but also strengthen the quality of the materials used for buildings that construction companies produce. With the Philippine growing economy and with ASEAN Integration in 2015, the possibility of foreign companies coming in to the country to invest or bring their businesses here is high thus, opening an opportunity to the growth of Philippine Building Industry.

Q: Have you planned anything special for the 20th anniversary of WORLDBEX?

A: For our 20th year celebration, we are adding new features, competitions and innovations which will be launched in the event. As we mark this momentous year, we are committed to provide what the industry needs. With the help of different associations and partners, we were able to attain what the company truly desires: and that is to present the Philippines in a worldwide perspective. In line with our theme "Building Visions in the Realm of ASEAN Integration," we are not just ready to face the ASEAN Market but will also be the catalyst to usher in a new era for the building and construction industry.

Q: Looking into the future, what kind of direction have you set for WORLDBEX for the next five years?

A: We will still give the best exposition possible by continuously looking for ways, activities or programmes that will make WORLDBEX different from the others. With the current trends in the industry and ASEAN Integration in 2015, WORLDBEX will use these to see not just the possibilities of Asia but to challenge the Worldwide Arena as well, and hopefully in the next five years, we are not just the most anticipated Building and Construction show in Asia but we will also leave a mark in the world.

Allgemeine Bau-Chemie Philippines, Inc (ABC Phil Inc)

ABC Phil., Inc. will introduce the 2 in 1 Mosaic Adhesive & Grout at WORLDBEX 2015. This 2 in 1 Adhesive & Grout is specially formulated for faster and more convenient mosaic tile installations. It bonds and grouts all types of mosaic tiles all in one step. The thinbed method tile installation requires a thin-set mortar application on a concrete surface with the use of a notched trowel. The mosaic sheets are then pressed downwards for the mortar to squeeze out in between grout lines. Using a squeegee, spread excess mortar evenly covering all grout lines. Using the right tools helps distribute the mortar 100 percent for complete tile and grout line coverage to achieve a professional and lasting tile installation.

Innovative Building Solutions

Tiling Solutions

ABC Tile Adhesive
Redifix
Tile Grout
Tile Grout Waterproofing
Grout Sealer
Multibond

Finishing Solutions

Zemcoat Zembond
Gypsum Putty
Gypsum Compound

Waterproofing Solutions

Aquashield Plus
Aquaplug

Sealing & Gap Filling Solutions

Silicone Sealant
Acrylic Sealant
Firestop Sealant
Polyurethane Sealant

Heat Insulating & Floor Hardening Solutions

Thermoshield
Floor Hardener



2 in 1 Mosaic Adhesive & Grout

ABC Phil., Inc. is the Philippine pioneer in modern tiling technology. In 1981 ABC introduced Tile Adhesive and Tile Grout to the construction industry to address the specific needs of architects, contractors, developers and homeowners, for high quality tile setting and tile grouting materials. This Filipino-Austrian joint venture has since then formulated, manufactured and introduced 28 innovative building materials for specialty applications in the Philippine building industry. ABC Phil., Inc. has also introduced eco-friendly products composed of natural ingredients bearing little or no adverse effects to the environment, creating a safe living environment for you and your family. As a service to our valued customers, ABC Phil., Inc. is providing a Technical Support & Service Team, which upon request conducts quality inspections and provides technical assistance in regard to a professional application of all our products.

For more information, visit www.abc.ph.

Cabinet Members, Inc.



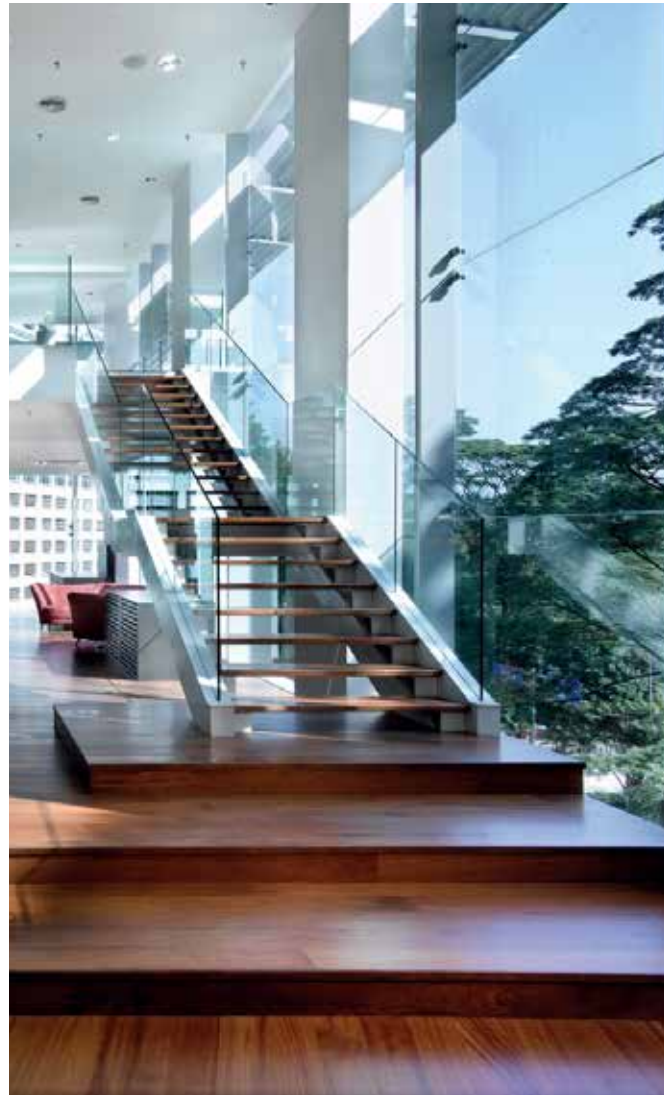
Established in 2002, Cabinet Members, Inc. (CMI) is one of the region's leading specialty distributors in the construction industry, offering an extensive inventory of quality building materials for commercial and residential use, meticulously sourced and selected for their durability, innovativeness and aesthetic appeal.

CMI is committed to providing the best levels of service together with the most comprehensive range of building solutions at cost effective prices. With CMI, you can be confident that you do not only get top-quality product lines at good price points but also have the support of a trained, knowledgeable and motivated team of professional marketing consultants dedicated to your satisfaction.

CMI is proud to have exclusive distributorship of only the trusted brands in building materials. They are IKO fiberglass asphalt shingles; GENTEK Vinyl Soffit & Sidings; CMI Solid Wood Flooring; GCI Clay Roof Tiles and IKOtile Metal Roofing Systems.

For more information, visit www.cmiphil.com.

Ekowood International Berhad



Ekowood International Berhad (“Ekowood”) was incorporated in Malaysia in 1994 and listed on Bursa Malaysia Securities Berhad in 2004 with the principal activity in manufacturing and sale of engineered hardwood flooring products. To date, Ekowood products are exported to 35 countries with established international office set up in USA, Spain and Luxembourg.

Ekowood’s factory in Malaysia has a built-up of 65,000 square metres (or 700,000 square feet) and a land area of almost three times the build up. The total investment in the production plant is more than USD\$30 million and to date, Ekowood has 365 skilled experienced employees.

Ekowood, the “New Generation of Solid Hardwood floors” offers a unique diverse range of wood species, patterns and colours. Ekowood exclusive beautiful crafted wood floorings are certified green by Forest Stewardship Council (FSC), Programme for the Endorsement of Forest Certification (PEFC), Malaysia’s green building corporation and is Singapore Green Label compliant.

Ekowood exclusive range of engineered hardwood flooring choices ranges from the New Milano oak collection, which features distinct knots and grain variations that give the wood a rustic feel - architecturally designed to cater for demand from discerning customers. Other notable wood species collections are the uniquely beautiful handcrafted floors of Winchester Collection, the exquisite timeless collection from The Temperate favourites and the sultry wood species from The Exotic collection.

Ekowood specialised engineered solid hardwood flooring offer tangible benefits to its high-end premier customers such as:

- Ekowood floors are developed using cross grain technology that results in hardwood flooring that is up to 70 percent more stable than traditional wood floorings.
- Ekowood floors are made from 100 percent real solid wood and are not laminates.
- Ekowood offers the innovative user friendly New Locking System – EKOLOK G5 which requires 1 manpower only to install the floors in 1 single action.
- Ekowood floors are pre finished with six layers of UV cured acrylic lacquer in the factory – unlike conventional solid flooring.
- These benefits are further complemented by Ekowood’s warranty of 10 years.

Ekowood floors are installed in many prestigious projects including 5-star hotels and luxurious residential properties in various continents.

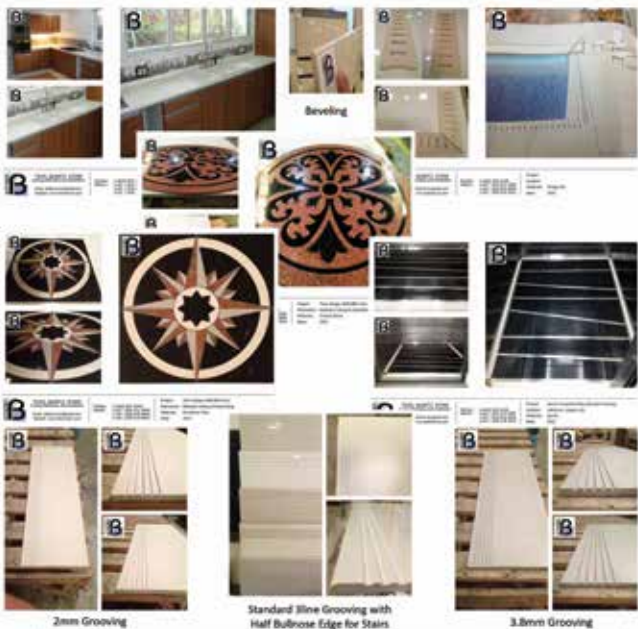
Ekowood will have four booths in WORLDBEX 2015. Visit the company at booth numbers 527, 528, 529 and 530. **For more information, visit www.ekowood.com.my.**

Botticino Inc.

Botticino incorporation was established and registered in January 2010 to provide the best fabrication services for construction industry. The company's vision is to become one of the leading companies by giving first class fabrication services to its valuable customers and clientele, with the help of its experienced team leaders to run a company well equipped with (Automatic) machines which will help them provide a better quality service.

Botticino is equipped with the latest technology such as:

- Automatic Tile Cutting Machine (Faster and more Precise)
- Water jet machine (for design cutting)
- Automatic slab cutting machine and
- Automatic Grooving, Grinding, Beveling and chamfering machine.



Botticino provides Counter top fabrication, Design customizing and Cutting Services for Tiles, quartz, Stone, wood, metal, etc.

It will help the company to create unique designs for flooring or wall. It will also give the company the capability of Fabricating Kitchen Counter-top and Vanity counter-tops with materials such as, Porcelain Tiles, Quartz stone, Granite stone, etc.

Botticino products include:

- Kitchen Countertop

- Vanity Countertop

Made of Quartz, Granite and other Stones

- Personalized Floor and Wall Design

Made of Porcelain tiles, Quartz, Granite and other Stones. (All Kinds of Curve Design and Cutting with Water Jet)

- Personalized Mosaic

Made of Tiles or Stones

Botticino services include:

- Cutting (Straight, Inclined)

- Stairs Grooving

- Edge Bullnosing

- Edge Polishing

- Edge Beveling

- Edge Chamfering

- Edge Grinding

- Hole Drilling

With fully computerized machines for all kinds of (Tiles, Quartz, Granite, Marbles, etc.)

Other materials:

Botticino is capable of cutting:

- Wood

- Glass

- Acrylic sheets

- Metal

And other materials for interior and exterior designs.

For more information, visit www.botticinoinc.com.

Verdantwaly Industrial Corporation

When you think of home decor, you think its only purpose is to make a room pretty. The last thing to come to mind is that something decorative can help save lives. But that is the case with AICA Cerarl's wall panels.

Not only are they gorgeous, but they also use green technology, which claims to be the first of its kind. This Japanese label has supplied and installed high-pressure laminated wall panels in Japan for over 33 years. In Japan, they are used in the Tokyo Tower, all train stations, and all UNIQLO branches.

The wall panels come in four stylish categories with even more variations: marble and granite, wood grain, ceramic and glass, and metal. The panels are made using cold-pressed resin and glass fiber, and using green concepts to lessen its effects on the environment. It has even been certified by award-giving bodies in Japan and Singapore.



But how can wall panels save lives?

AICA Cerarl's wall panels are non-combustible, anti-microbial, sustainable, and made with green construction materials. AICA Cerarl's wall panels have no chemical emission, no radiation risk, and no harmful chemicals like formaldehyde, which means it can keep your home safe. It also does not have asbestos, which is found to damage lungs and even contribute to cancer, and Radon gas, a gas present in granite that is the second leading cause of lung cancer.

The wall panels are also extremely thin, coming in at 3mm. Because of its lightweight, it is easy to transport and install. In fact, you can even install the wall panels yourself and save costs. All you need is a carpenter who can measure and cut so it meets your room's size. To install, AICA Cerarl has its own adhesive, which also follows the green concept.

The wall panels are also surprisingly strong. AICA Cerarl's

wall panels are resistant to termite attacks, cracks and chips, and even changes to the panel due to heat and cold. Its hardness and scratch-resistant properties have also been certified. If you install these wall panels, they are going to last longer. It is even easy to clean.

Of course, besides being environmentally friendly, the designs are gorgeous. There are almost 100 patterns to choose from, depending on your taste. AICA Cerarl's wall panels can be used in hotels, hospitals, and museums, but can also be placed in homes, especially in kitchens and bathrooms.

With these wall panels, you can make your home look even more beautiful, with long-term effects on your family's health and the environment. Who would have thought it was possible? AICA Cerarl is exclusively distributed by Verdantwaly Industrial Corporation in the Philippines.

For more information, visit www.verdantwaly.com.

Guang Dong Kin Long Hardware Products Co Ltd

Kin Long Company is an innovative and professional company engaged in researching, developing, manufacturing and marketing of fittings for architectural hardware. Kin Long supplies fittings of high quality and provides consulting services to the architectural industry. Through many years of development, Kin Long has achieved a good reputation in the construction industry.

Kin Long has a factory of over 200,000 square metres. The total number of employees exceeds 5,000 and they include 500 technical and managerial staff. With a developing sales network both domestic and abroad, its products are distributed throughout China and exported to more than 100 countries and areas.

"Unique value can only be created by professionalism, speculation has no future" - this motto is practiced by Kin Long's employees at all levels. In the continuous quest for constant technology development, higher quality and better services, today Kin Long has become one of the largest suppliers of fittings for architectural hardware industry.

Striving to become the leader to serve the architectural hardware industry in the world, Kin Long not only adopts advanced management and manufacturing method, but also invests heavily in design and innovation. Presently, Kin Long has more than 10,000 items of products and owns more than 300 patents. It has supplied its fittings to many famous landmarks in countless cities all over the world. For more information, visit www.kinlong.com.



Kin Long's factory in Dongguan city, Guangdong Province in China.



Kin Long's products

Sonic Lighting and Electrical Systems, Inc.

Sonic Lighting and Electrical Systems, Inc. was established in 2012 as a professional lighting solutions provider, specialising in the scale of energy-saving and environment-friendly products such as LED Down Light, LED PAR Light, LED GU10, LED High Bay Lights and LED Street Lights and Tunnel Lights for various applications.

The company aims to introduce innovative lighting products such as bulbs, tube lights, streetlights and high bay lights, and other special kinds of lights to its customers. Sonic Lighting stands out for its strong commitment to creativity and innovation of indoor and outdoor lighting market by offering quality product lines.

Sonic is the only licensed lighting distributor of the world-renowned TCL LED lighting products in the Philippines. TCL LED Lighting, as a component of the TCL Group, was established in June 2000 and specialises in traditional lighting and LED lighting that covers home lighting, landscape lighting, road lighting, architectural lighting and other special lighting applications.

For more information, visit www.tcl-lighting.ph.

Right: Besides TCL LED lighting products, Sonic also distributes LED Down Light, LED PAR Light, LED GU10, LED High Bay Lights and LED Street Lights and Tunnel Lights.



TechGlobal Incorporated

Formerly known as Megasystem Enterprises, TechGlobal Incorporated was established with the aim of providing clean and safe water to all Filipinos that is coupled with environment-friendly world-class piping products. As Megasystem, it serves as the largest water and sanitary pipe distributor in the Philippines and was the pioneer of PPRC pipes & fittings, with the introduction of VESBO during 1996.

As such, Vesbo remains as the preferred choice among architects and contractors nationwide due to its superior quality among the rest of the brands in the market. Besides that, it was also the pioneer of HDPE pipe & fittings for sewage and drainage with its VASEN brand. Due to the quality and excellence of its products, it was awarded the Superbrand status twice in a row. The Philippine Marketing Association awarded the company as well with "Best Pipe Distributor in the Philippines."

Currently, TechGlobal strives to build on what Megasystem has accomplished which is provide to all Filipinos accessible safe and drinking water through innovative technology that is designed in line with nature.

For more information, visit www.techglobal.com.ph.



Vesbo PPRC Piping System



Vasen HDPE Pipes & Fittings

Stoneworks Specialist International Corporation

With over 15 years of continuous production experience in the fiberglass and composite industry, Stoneworks will meet or exceed all your fiberglass needs. With two strategic locations, General Trias Cavite and General Santos City, Stoneworks has supplied custom fiberglass products to an extensive range of customers in the marine, industrial, agricultural and recreational industries.

Stoneworks has state-of-the-art production capabilities. It has multiple production lines, latest helical filament winding technology, FRP Vacuum Resin Infusion Technology, In-mold coating and Directed-fiber pre-forming machines.

For more information, visit www.stoneworkscorp.com.



Greencube

Greencube, as a subsidiary of Kianson Singapore, began its operation in the Philippines in 2011 with a mission to spearhead design solutions for building sustainability and to create awareness amongst designers and developers in the Philippines.

Greencube focuses on delivering high quality and hassle free solution for timber decking using only high quality recycled wood fibers with pure plastic resins. The company has achieved the "Green Label" mark in Singapore under Kianson.

Advantages of composite timber

Low maintenance & durability – it resists weathering and warping.

Quality ingredients minimise heat build up and fading – materials are blended with UV-inhibiting pigments and highly reflective consistent colours.

Safety – composite timber is splinter free, meets and exceeds all Disabilities Act Standard for anti-slip resistant walking surface.



Project: 168 Residences, Manila, Philippines
Developer: Yeeloofa Development Corporation
Material used: Drain Cell DC30 for green roofing

Greencube expanded its nature friendly products in collaboration with Uniseal Singapore as its sole distributor in the Philippines for its Urban Greenery Products: Green Roof and Green Wall, Storm Water Management and Landscape Engineering.

Rapid urbanisation and climate change is providing a pressure for urban greenery and having a Green Wall and Green Roof are the key ingredients for this movement.



Project: Asiana Oasis, Paranaque City, Philippines
Developer: Filinvest
Material used: Brown Oak Composite Timber

PlanterCell systems offer many benefits such as:

1. Plants continuously hydrated, reducing irrigation needs
2. Lightweight with good strength
3. Easy installation
4. Modular and efficient logistics

Manufactured from recycled polypropylene, PlanterCell products are "Green Label" certified by Singapore Environmental Council (SEC) and certified "Green Products" by Singapore Green Building Council (SGBC). For more information, contact Greencube at tel (+63) 2 477 5963.

MFT Office Furnitures Ltd



MFT Office Furnitures Ltd was established in the year 2000 with the goal of taking office furnishings into the new millennium. The company aims to provide its clients with products they can enjoy with ease, comfort and affordability, coupled with innovative problem solving resources to meet today's extensive office requirements.

With over 200 professionally qualified personnel and locations in Hong Kong and China, the company's continued growth and success results from a constant focus on customer satisfaction, by listening to its customers' needs and providing continuous services. MFT International Corporation is one of the top companies in the contract office furniture industry offering a full spectrum of office furniture and related services. MFT International is committed to provide quality office furnishings based on the principle "VALUE FOR YOUR MONEY" and is equally committed to achieve excellence in all aspects of office furnishings and distribution.

For more information, contact MFT Office Furnitures Ltd at tel (+63) 2 776 1684 / 776 1685.

PalmEco

It's time to rethink our future. Issues of climate change, current devastation from environmental degradation, soil erosion due to deforestation, continue to hound us helplessly.

PalmEco Board – the better Green Building Board – is finally here. It is an eco-friendly alternative to gypsum, wood and cement-based building board. PalmEco Board is the revolutionary, new building board that is tough, durable and delivers superb high-quality finish. It is easy to install as you can nail and screw it anywhere, paint, wallpaper or tile it. It is versatile and can be used as floorings, partitions, cabinets, walling and ceilings.

PalmEco Board is resistant to fire and insects like termites and ants. It is manufactured through an environmental-friendly process that consumes very little energy and emits close to zero carbon footprints. It is made from an abundant, natural mineral and oil palm waste that would otherwise be dumped into a landfill. Production of our boards does not generate air pollution and unlike plywood, it does not use timber. Unlike particle boards or cement-based building board,



Palmeco as ceiling.



Palmeco as display rack.

PalmEco contains no harmful substances, such as VOCs, formaldehyde, asbestos and silica dust, thereby it is completely safe even for babies and the elderly. PalmEco's boards are also good as sound insulation (up to 45 decibels). As heat/thermal insulator, you can use it for outdoor canopies and roof sheathings resulting in a cooler overall environment. The PalmEco Board's water resistant qualities are perfect for areas with high humidity like kitchens, bathrooms, even outdoors, beach houses, etc. Unlike wood and particle boards it will not grow mold and mildew, buckle or warp.

PalmEco Boards are produced, tested and certified to very high standards. They include CSIRO Certified Australia and New Zealand standard 3837, ExovaWarringtonfire, Fugro certification among others).

For more information, visit www.PalmEcotech.com.

Polymer Applications Technology Philippines Inc.

Polymer Applications Technology Philippines Inc. (PATP) is a supplier and applicator of high performing epoxy and polyurethane polymeric flooring systems. It is a subsidiary of Polymer International which is active for more than 20 years now and has also branches in China, Malaysia, Thailand, Indonesia and Singapore. The company has a manufacturing base in Malaysia.

PATP was incorporated on 12 December 2012 and is based at Calamba, Laguna, Philippines. PATP is headed by its President, Marc Antonel S. Banzuela, who has been in the flooring industry for more than 10 years.

The company's products are divided into two major brands: (1) the Polygard which is composed of solvent-based and non-solvent-based epoxy and polyurethane polymeric flooring systems; and (2) the Ecogard is water-based and environmental-friendly polymeric flooring systems.

Furthermore, the company does inspection on floors before they recommend the appropriate flooring to the client. It also has its own equipment and trained applicators to do your flooring needs. Warranty is also given.

For more information, visit www.polymer-international.com.



Guangdong GrandShine Construction Material Co Ltd



ROLAY windows and doors is a brand from Guangdong GrandShine Construction Material Co Ltd located in Guangdong, China.

Since the company's launch 10 years ago, it has been supplying high-end aluminum window system to realise effective energy saving and multi-functional protection for the construction industry. This has become the objective of GrandShine for both the local and overseas markets.

GrandShine has completed about 20 projects in Southeast Asia such as Mandarin Plaza Hotel, Mactan New Town, Pioneer Woodlands, Gensan Greenleaf Hotel in Philippines, Amari Hotel in Thailand and so on. The company also works closely with prestigious contractors and owners by offering them good quality and competitive prices.

With the substantial R&D investment and market research, GrandShine continually develops excellent window and door systems with outstanding style, strength, security and sealed insulation – everything you want.

Product Features

- High quality aluminum window and door system designed for residential and commercial building.
- Wide variety of aluminum window and door systems such casement, tilt&turn, sliding, awning, fixed type.
- Multi-functional designs exceeds individual requirement regarding thermal insulation, acoustic insulation, water tightness, security, etc.

Materials

- Aluminum frames of alloy 6063 offer good structural and load properties with incomparable fire resistance.
- Variety of colour choice available in anodizing, powder coating and wood pattern.
- High quality hardware, EPDM sealing and accessories from reputable manufacturers.
- Variety glass option: clear, obscure, tinted, double glaze, Low-e-E glass, laminated glass, etc.
- Individual window screen for both fixed or rolling type made of stainless steel.

Professional Services

- Provide complete system design with various profile size to choose from.
- Meet high performance to meet individual requirements.
- Design concepts and proposals.
- Create site measurement available for commercial projects.
- Make accurate shop-drawing.
- Installing service.

For more information, visit www.aluminium-profile.biz.



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ACOUSTICAL TIMBER CLADDING | SOUNDZIPPER



At the Hotel Seeburg in Switzerland, the Topperfo Plank System was used on the ceiling.



At the Golf Club Lake Sempach in Switzerland, the Topperfo Graphic System was specified for the walls and ceiling.

Topakustik is a Swiss acoustical timber cladding product used for walls, ceilings, and even furniture that helps you design enhanced spatial experiences for your clients, whether they are in the residential, commercial, or institutional sector.

Topakustik is available in an extensive range of finishes, including wood veneer, laminates, melamine coatings and painted surfaces. Lime green or lemon yellow, curved or angular, Topakustik is produced with precision and thoughtfulness by design engineers and expert craftsmen ready to meet virtually any requirement.

Utilising a patented series of grooves and perforations, Topakustik panels reduce noise and echoes while blending in seamlessly, allowing you to design spaces that sound as great as they look.

Topakustik panels can be used in restaurants, offices, classrooms and libraries, gymnasium and indoor swimming pools and conference halls and auditorium. In fact, Topakustik has been used in several prestigious projects such as the Times Center Auditorium of the New York Times Building and Burj Khalifa in Dubai.

Topakustik is distributed in Singapore through Soundzipper. Soundzipper is a Singapore based acoustics consultancy with the aim of "making life sound better" through creative and holistic solutions to acoustic problems.

For more information, visit www.soundzipper.com.

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NEW RETAIL & HOSPITALITY ARCHITECTURAL GLASS COLLECTION BENDHEIM

Bendheim has partnered with Bart Halpern to launch a new retail & hospitality architectural glass collection.

Bendheim has partnered with Bart Halpern to introduce a new exclusive collection of decorative architectural glass to the interior design market. The collection transforms Bart Halpern's renowned Glitterati™ textiles into safety building glass, addressing the need for shimmering luxury materials that subtly dramatize interior spaces.

The Bendheim Hospitality Collection by Bart Halpern is a versatile and effective design material. Subtle at a distance, the combination of natural colours and metallic hues is dazzling and bold up-close. The collection features five Glitterati textile colours – champagne, gold, copper, silver, and black – laminated in Bendheim low-iron glass. Additional Glitterati options are available on request.

The collection's contemporary yet classic aesthetic, enhanced by its warm metallic glow, is an elegant option for a variety of décors and applications. Installed in partitions, doors and windows, stair railings, balustrades, and ceilings, the metallic threads shimmer in the changing light, providing differing levels of privacy and daylight. Laminated to mirror or back-painted, the collection is transformed into distinctive, elegant wall cladding for feature walls, lobbies, and elevator interiors.

This exclusive collection continues the Bendheim tradition of partnering with design industry leaders, including Robert A.M. Stern Architects, eh Oui Metals of France, and KOVA Textiles. These collaborations have helped Bendheim build an expansive catalog of modern classic glass designs with understated elegance and timeless appeal.

"The new Bendheim glass collection by Bart Halpern creates dynamic visual effects, presenting different aesthetics at varying distances and angles," said Steven Jayson, Vice President of Bendheim. "While the collection's soothing tones and refined quality can complement most décors, the unexpected dazzle adds an intriguing element that truly catches the eye."

The Bendheim Hospitality Collection by Bart Halpern is ideally suited for luxury hospitality, retail, corporate, and residential interiors, as well as select healthcare applications. The glass can be supplied fully fabricated to specification in sizes up to 60 by 120 inches and approximate thicknesses ranging 5/16 inch to 3/4 inch. Greater sizes are available on special order.

For more information, visit www.BendheimArchitectural.com.

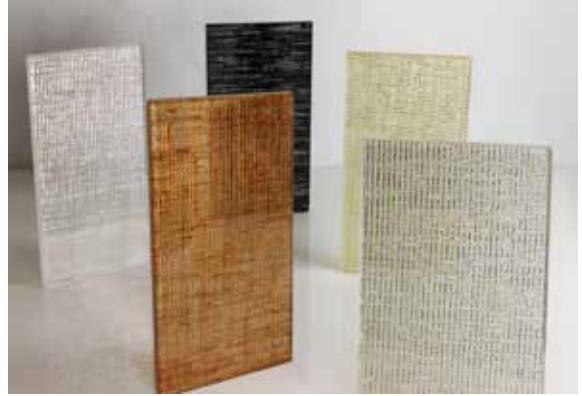


Photo: © Bendheim

LOW-E GLASS | GUARDIAN INDUSTRIES

Guardian SunGuard® SNX 51/23 is claimed to be the first commercial low-E glass product with visible light transmission (VLT) above 50 percent and a solar heat gain coefficient (SHGC) below 0.25.

This triple silver, low-E glass has a VLT of 51 percent and an ultra-low SHGC of 0.23. SunGuard SNX 51/23 is an excellent product globally for commercial curtain walls as it allows for a real balance of appearance and performance. Furthermore, in Southeast Asia, where there is a high concentration of sunlight and glare, the low SHGC combined with 50 percent light transmission meets the demands of the most rigid energy codes.

"The low solar heat gain coefficient helped us to reach high energy efficiency targets and achieve LEED qualifications without a reduction in desired glazing quantities," said Daniel J. Scheaffer, AIA, LEED BD+C, senior associate architect at LS3P Architects, which designed one of the first buildings to feature SNX 51/23, a U.S.-based university annex. "SNX 51/23 also allowed us to stay within budget, as the product performs as well as comparable glazing with dark or reflective tints while also providing the visible light transmission the design demanded," he added.

A new addition to the Guardian SunGuard portfolio, SunGuard SNX 51/23 also offers low reflectivity and a neutral blue appearance compared to other triple silver low-E coatings, giving architects and designers a brand new option to reduce energy costs. It is available on clear, green, UltraWhite™, CrystalGray®, gray and TwilightGreen® substrates, in both annealed and heat treatable versions.

For more information, visit www.sunguardglass.com.



Photo Courtesy of Guardian Industries Corp.

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NEW INSULATION GLASS RANGE | AGC INTERPANE

AGC Interpane now offers a completely revised product range for heat insulation. Windows made using modern double or triple insulation glass with very low thermal transmittance (U_g) inhibit the loss of heating energy almost as effectively as a solid wall but allow valuable passive solar energy gains and let lots of daylight into the house.

The new brands in double-glass construction: the colour-neutral insulation glass "iplus top 1.1" and its temperable variant "iplus top 1.1 T" with a thermal transmittance (U_g) of $1.1 \text{ W}/(\text{m}^2\text{K})$, and "iplus advanced 1.0" together with its temperable version "iplus advanced 1.0 T", an energy-optimized glass with a thermal transmittance (U_g) of $1.0 \text{ W}/(\text{m}^2\text{K})$. Despite the excellent thermal insulation the new products achieve outstanding values for light transmission and solar factor.

The latter makes possible high solar energy gains in the colder months of the year. For large windows or those that face south, additional solar control is often required in order to prevent overheating of the building in summer. For this purpose AGC Interpane offers the product "iplus Energy N". It has a special silver coating that reduces the solar factor. At the same time, daylight transmission, colour neutrality and reflection are optimized. The product variant "iplus Energy NT" is temperable. All iplus low-e products have the green building certification "Cradle to Cradle Silver".



"Super-warm glass" offers effective thermal insulation, high daylight transmission and solar energy gains. Photo: AGC Glass Europe



AGC Interpane now offers a new product range for thermal insulation. Photo: AGC Glass Europe

Triple glazing for passive houses and anyone who wants to save money

In the "super-warm glass" segment AGC Interpane offers the products "iplus top 3", "iplus top 3C" and the radiation-optimized high-end product "iplus 3 LS" together with the temperable version "iplus 3 LST", which are certified for passive houses. In combination with an outer pane made from clear float glass iplus 3LS, for example, achieves a solar factor of 63 percent and a light transmission (T_v) of an excellent 74 percent. So warming solar rays pass through the glass relatively unhindered but the "return route" for valuable heating energy is blocked. With an argon filling the glass achieves a low thermal transmittance (U_g) of $0.7 \text{ W}/(\text{m}^2\text{K})$. With krypton gas a value of $0.6 \text{ W}/(\text{m}^2\text{K})$ can even be achieved.

Coating against condensation

The better the thermal insulation of a super-warm glass, the greater the likelihood that when the humidity is high and in the early morning condensation sometimes forms on the outside of the windows. This is normal. It occurs because the warmth from the inside of the building no longer reaches the outer pane, which therefore remains cold. The moisture contained in the air condenses visibly on the cold window, just like it does when it forms dew on grass that is still cold from the night. In order to maintain a clear view to the outside AGC Interpane therefore offers anti-fog glazing with a pyrolytic layer that helps to prevent the build-up of condensation: the variant "iplus AF top" provides high thermal insulation, and effective solar control is offered by "iplus AF Energy N".

For more information, visit www.interpane.com.



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As Asia rapidly urbanises, there's a strong demand for urban design, landscaping and greenery to create spaces that are conducive for work, life and play.

Against this dynamic backdrop, GreenUrbanScape Asia, an international exhibition and conference on landscape, greenery design, construction and technology, returns for the second edition in 2015 at the Singapore Expo Convention & Exhibition Centre.

GreenUrbanScape Asia serves as a platform for policy makers, facility owners & managers, landscape architects, architects and service providers to exchange knowledge on latest greenery and urban design methods and evaluate current cutting edge solutions and technology.

GreenUrbanScape Asia will be held alongside with the International Skyrise Greenery Conference.

Mark your calendar for GreenUrbanScape Asia!

*Secure your booth with Melissa Goh at
melissa.goh@singex.com / (65) 6403 2517*

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DIGITAL PRINTED GLASS | DDG

Glass is one of the most versatile, cost effective and green materials available for exterior and interior architectural elements. Printing on glass for exterior and interior design opens the way to unlimited creativity, enhanced functionality and outstanding sustainability, enabling unique designs that stand out both in your customers' minds and in their built environment.

The only way to ensure long-lasting exterior and interior durability for printed architectural glass without limiting the range, quality or colours of designs is to use a digital printing process that uses ceramic inks that are fused into the glass. Choosing digital in-glass printing with ceramic inks enables you to break free from the traditional constraints of screen printing and non-ceramic digital printing technologies, such as UV printing.

With DDG Digital Printed Glass, you can ensure your architectural glass design and enhanced functional performance, including energy efficiency, sun control, privacy levels, and more, last as long as the glass itself.



DDG Singapore Showroom's Onyx Wall and Spinning tower for digital printed glass, at 48 Sungei Kadut Avenue.

Advantages of DDG Digital Printed Glass

- Ceramic ink comply with ASTM C724-91
- Single-pass photo realistic/ full colour printing
- Digitally printed etch/ sandblast effect - A cost-effective, fast and environmentally friendly alternative for achieving varied etch effects in colour and textures
- Slip-Resistance Glass – Meets the highest demands of architectural and industrial anti-slip coatings (up to >65 wet PTV with 40% coverage of anti-slip spots).
- Fully ceramic, with excellent mechanical, environmental, UV, and chemical stability.
- Excellent non-stick performance, fade and scratch resistant
- The biggest printed glass size in South East Asia, up to 3210mm x 6000mm
- Glass thickness from 4mm to 19mm

DDG Laser Engraved Glass/ Mirror

Engraving type: Surface Engraving/ Subsurface Engraving/ Remove Mirror Back Coating

Max working dimension: W3300 x L6000 x H100mm

Glass Thickness: 4-19mm

Other material: Stainless Steel/ Acrylic/ Wooden Board

Output File Format Photo Realistic - TIFF/ PSD/ JPEG/ PDF/ BMP/ PNG/ EPS in 300dpi and above (High resolution format)

Vector/ Graphics - AI/ EPS/ DXF/ DWG

Note: Available in monolithic, laminated with glass/mirror. Temperable product only apply to surface engraved glass.

For more information, visit www.ddg-glass.com.

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LIGHTING & CEILING SOLUTIONS | COSA INTERNATIONAL PTE LTD

Singapore-based company Cosa International Pte Ltd has more than 15 years of experience in the interior business with special focus in state-of-art design and fabrication of large sculptural lightings and ceilings stretch materials and architecture paper. The company works very closely with architects, designers, building developers, shopping centre owners, etc., usually starting from assistance in design development to construction and installations as well as project realisation with its professional team.

Company's products

1) Barrisol

Barrisol, with more than 100 colours and applications, is a durable yet flexible membrane that can be cut and stretched to fit various designs, creating dramatic effects that are simply not possible or highly problematic with any other materials. It is a ceiling that stretches your imagination.

2) Architecture Paper

Architecture Paper is a range of special paper products that are fire rated and can be used on ceilings or indoor surfaces; versatile mood creations for places like cafes, restaurants, shopping centres, retails, offices , creativity lies with the designers.

3) AlumArt

AlumArt refers to customised sculptures using aluminium or metal for lighting projects , interior décor such as hanging stands, creative wall deco and creative works of art.

4) Cosalite

Cosalite is a product born of both the expertise and passion to create amazing lighting from the company's specialised materials for any shape or size. Lights could be as simple as traditional lantern light-ups to complex molecular shapes with the use of the company's in-house range of materials (Barrisol, Architectural Paper and AlumArt), where the freedom of play to decide on translucency and colour change with vividly changing LED lights are all available.



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



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COPPER PATINA PRODUCTS | SAMSUNG METAL

Samsung Metal is a leading Korean industrial group within the Korean market for copper patina products. Founded in 1969, this technologically advanced, innovative company has gained a worldwide reputation for offering superior quality and high performance products.

Through extensive research and advanced technological processes, Samsung Metal has been able to produce oxidized copper patina to acquire the aged appearance of the long 40-year aging process of conventional copper. The company's process produces a unique and flexible material for construction and architectural applications.

SMC – Brown Coppers

Samsung Metal's brown coppers come in a light and dark colour, creating two different distinctive appearances. With Samsung Metal's darker brown copper, it is sometimes considered bronze in appearance. As for its light copper, this has the appearance of freshly milled material and with a simple rotation of the product during installation it can appear to have a different colour creating a beautiful visual look. With the company's special chemical treatment of M20 onto the natural coppers and our natural organic clear coating, it is able to produce these two wonderful products. The product can be used as a general exterior or interior material; for roofing (external & internal roofing material); golf courses and other building material.

Stainless Steel/SUS

Samsung Metal's oxidization of stainless steel products is created through the process of oxidizing the stainless steel by chemically advancing the material to the required patina. By basing this product in light, antique, dark grey and brown the company has been able to produce the material to represent many other architectural finishes even for some large and special orders, these tones can be changed to suit the project. With the stainless steel coat being in 304 stainless steel and the external patina coat organically being applied to the outside of the material Samsung Metal is able to produce a very high quality product. Applications of the product include art gallery, museum, residential house, golf courses and roofing (external & internal roofing materials).



W Hotel, Singapore



Songam Space Center



Seoul National Station



University



Kindergarten



Church

Samsung Metal copper patina products have been selected for a wide array of projects such as university, kindergarten, art centre, community centre, golf course, research centre, church, villas, and gallery all over the world. Notable projects include Seoul National Station, Buan Celadon Museum, Incheon Church, Songam Space Center, Gunsan Municipal Museum, Bell Museum, Jangan University, The Presidential Administration in Ankara, Turkey, and W Hotel (Singapore).

Samsung Metal copper patina products are available in Singapore through Sheet Metal International Systems Pte Ltd. For more information, tel (+65) 6365 7131, fax (+65) 6365 2086, email admin@sheetmetal.com.sg or visit www.sheetmetal.com.sg.

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NATURAL VENEER | NETZACH WOOD VENEERS PTE LTD

Netzach Wood Veneers Pte Ltd is a supplier of premium veneers in Singapore. Whether you are looking for a contemporary or classic look, Netzach's wide array of veneer options will add timeless appeal and natural beauty to your project.

To ensure that customers get the best quality, the logs for the veneers are selected from sources in Europe, United States and locations indigenous to the type of wood. Stringent steps are conducted at every step of the process to maintain high standards of quality.

Besides offering a more natural looking appearance, natural veneers are cost-effective and environmentally friendly; aesthetically pleasing; versatile; stable; and they come in many design options.

Netzach also offers engineered veneers, which are made from Ayous timber veneers. Engineered veneers have consistent grains and colour tones as compared to natural variations observed in natural veneers. Netzach sources and produces the engineered veneers in accordance to the Forest Stewardship Council standards, which promote responsible management of forests internationally. The texture and colour of the engineered veneers can be customised to suit the client's modern or traditional preferences.

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



ARCHITECTURAL HARDWARE | KURIKI MANUFACTURE CO LTD

Kuriki Manufacture Co Ltd is a manufacturer of architectural hardware such as hinged and sliding doors, as well as bathroom, washstand and toilet accessories. In Japan, the company holds a leading position for bathroom door handles, delivering products that are able to stand up to the harsh and wet environment. Recently, the company's door soft close mechanisms for hinged and sliding doors have been used by major house builders in Japan.

The door soft close mechanisms from Kuriki are eco-friendly products. Even when a sliding door is closed carelessly, its speed is slowed approximately 60mm from the stop to close. This prevents the door from being left open and stops the cool air from the air-conditioner from escaping the room.

The soft close for hinged door closes quietly by brake. It dampens unwanted noise when doors are closing, making them close slowly and quietly. It also prevents cool air from the air-conditioner from escaping the room.

All the company's products allow easy installation in a short time. Four product models from the company have won Good Design Awards. Kuriki's design team with wide experience in the areas of plastics, metals and other materials, allows them to provide products lower in cost than its competitors while still maintaining performance and quality.

For more information, visit www.kuriki-ss.co.jp.



WALLPAPER | MARUWA CO LTD

Maruwa Co Ltd is a Japanese company specialising in interior construction and decoration materials. Since 2000, the company has developed and sold wallpaper "TAMAGAMI" and accessories made from a traditional Japanese paper called 'Echizen-washi'.

The Echizen-washi Japanese wallpaper is widely used in house hold goods and interior decoration due to their extraordinary texture of the paper. Its plain design allows a wide range of applications for projects ranging from commercial facilities to housing.

The TAMAGAMI is made through an original water repellent finishing process. This process allows the wallpaper to realise a super water repellent finish without losing the texture or breathability of Japanese paper. It is certified as fire-safe material (product certified for formaldehyde measures) in Japan.

For further information, visit www.maruwa-g.com/e/.



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BUILDING INTEGRATED PHOTOVOLTAIC MATERIALS | ONYX SOLAR

Onyx Solar has installed a photovoltaic curtain wall for the new GDR Guadalhorce Valley's Headquarters, which will contribute reducing the building's energy consumption.



Photo: © Onyx Solar

The future new GDR's headquarters, located in the province of Malaga, Spain, has been designed to become a Center for Social, Economic and Environmental Innovation. GDR Guadalhorce Valley will host many different institutions and associations, which work actively towards the development, promotion and innovation of the valley.

Onyx Solar's photovoltaic glass has been installed at the building façade as a unique curtain wall capable of generating more than 3,000 kWh per year. This customised glass, made of amorphous silicon technology, was designed in a large format to meet customer's project needs, the Regional Government of Andalusia. It is remarkable that this low-emissive glass improves both, thermal and acoustic insulation,

reducing energy expenses. In addition, the 20 percent light transmittance glass chosen allows the entrance of natural light into the building; this way, artificial lighting needs are decreased. This photovoltaic curtain wall enhances the building's inner comfort for its occupants at the same time it preserves its natural surroundings through a more efficient construction and aesthetic design.

By integrating Onyx Solar's photovoltaic glass in façades, buildings are able to save up to 50 percent in HVAC expenses. **For more information, visit www.onyxolar.com.**



Photo: © Onyx Solar

OFFICE FURNITURE | FANTONI

Today our way of working has changed completely. We are faster, more efficient, more flexible. We have learnt to live with a nomadic approach, shedding our expectations of a daily routine that is becoming ever more fluid. It is therefore no surprise that the demands regarding our working spaces should change too, becoming more flexible, hybrid, ready to change and adapt to different functions, numbers of people, or roles.

Hub is an office system created for this contemporary world by designer Matteo Ragni. It is a landscape that is ready to change, simple to understand and use, and easy to make your own, because it is designed to be customised day by day, recognizing our need to personalise the spaces that we occupy for many hours a day.

The boundaries between design work and management work are growing ever slimmer, as are all our hierarchies and roles.

Hub promotes informal communication, the possibility to change places and rearrange spaces, and to meet and discuss with people in different ways to suit the occasion. In a sense,

it is as if the workplace has become a boundless space, the borders of which are drawn by people, their skills and actions. Hub is the office for this new world, this time in which people are once again taking a central position.

Hub sets you free to personalise your workspace the way you want it; it is the ultimate modular system, with its perfect geometrical structure, developed so that the frame can accommodate either independent workstations or multiple compositions. Hub is sculptural and contemporary: it opts for natural finishes for the top, with dove grey, stone grey and the radical solution of the ISB top in large-particle chipboard, contrasted with fabrics in audaciously bold colours: yellow, blue and orange.

"The Hub project arose from a real need to recreate a physical and mental space within a workplace inhabited by different people. A kind of wall-less box to facilitate the osmotic dimension of relating with spaces and people. A relationship-oriented workstation that can be personalized and rearranged to meet individual needs, the direct descendant of the "Abitacolo" combined that Bruno Munari first dreamt up to combine the different activities in the day of an adolescent, and to map out the time for each one: rest/play/study/relationships. From the use of a simple, large, square table, the idea arose to create a "four-poster" table, a mini-loft in which to work, rest, and feed on ideas, relations and good food, in a word, to live a space. And so this small, cubic world measuring just 160 cm becomes an ideal venue for our relationships and all that they require, a kind of portal enabling us to collaborate with colleagues near and far," said Matteo Ragni.

For more information, visit www.fantoni.com.



Hub, single module with 4 working places. Photo: Max Rommel



Hub, multiple module

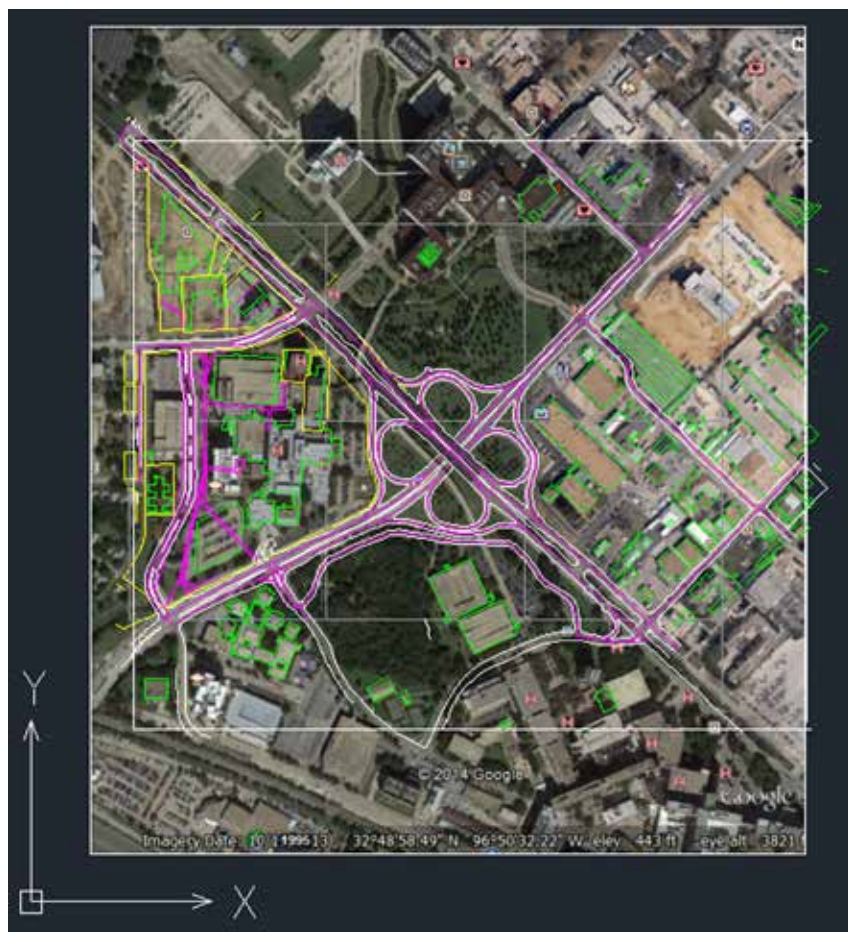
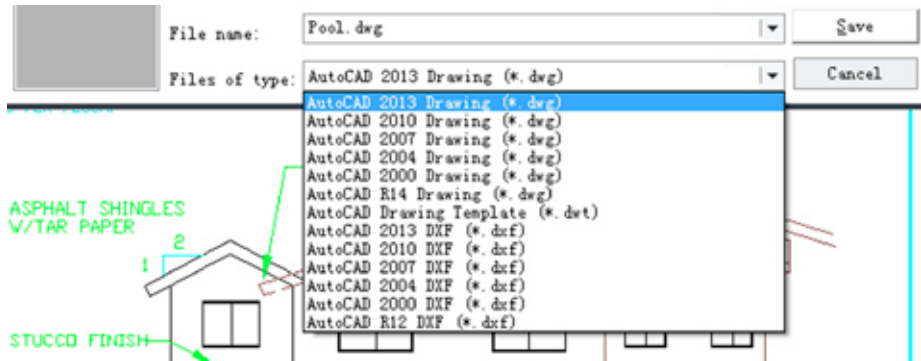
CAD SOLUTIONS | ZWCAD DESIGN

If you are an architect looking for a reliable and affordable CAD solution, look no further than ZWCAD+.

ZWCAD Design is an innovative supplier of CAD solutions for the MCAD and AEC industries. Its flagship product ZWCAD+ has seamless compatibility with files in other formats, is easy-to-master and cost-effective. More excitingly, its latest product ZWCAD+ 2015 came out and it has more innovative enhancements to largely improve the ZWCAD+ experience.

Great file compatibility

File compatibility is one aspect of CAD that designers don't want to overlook. DWG, DXF, DWF are the most mainstream formats. ZWCAD+ is fully compatible with these mainstream CAD formats both in reading and writing. Designers can open and write DWG/DWF 2013 and DWF files or even write block to DWG 2013. Smoothly sharing drawing with other CAD products without the fear of data loss is assured with ZWCAD+.



An easy-to-master and cost-effective CAD program

ZWCAD+ continues to make the functions to simplify the process of designing, and makes the user interface as clean as possible. Ease-of-use not only requires the function to effectively simplify the design steps, but requires it to be easy to learn. When a user first enters the function dialogue, the neat and tight alignment of buttons and layout will allow him to intuitively understand how to use it. The examples are the new features, Reference Manager and Super Hatch and so on. So users don't need to invest any time into relearning, they can easily switch from their previous CAD program to ZWCAD+. What's more, according to research that only 80 percent of the features are frequently used by designers, so ZWCAD+ eases designers cost burden by allowing them only to pay for only what they need.

Experience architecture design in the real world

For architects, a tricky problem is that they often find it is hard to define whether their designs fit in the real geographic environment. It is extremely tedious to constantly go to the real spot to find out the result. However, with Google Earth integrated in ZWCAD+ 2015, simply import

any Google Earth snapshot, designers can visualize, simulate their ideas digitally with Google Earth. They can review the final result and experience their design in the real world even before the project is built.

To experience the latest ZWCAD+, users can download it from www.zwsoft.com.



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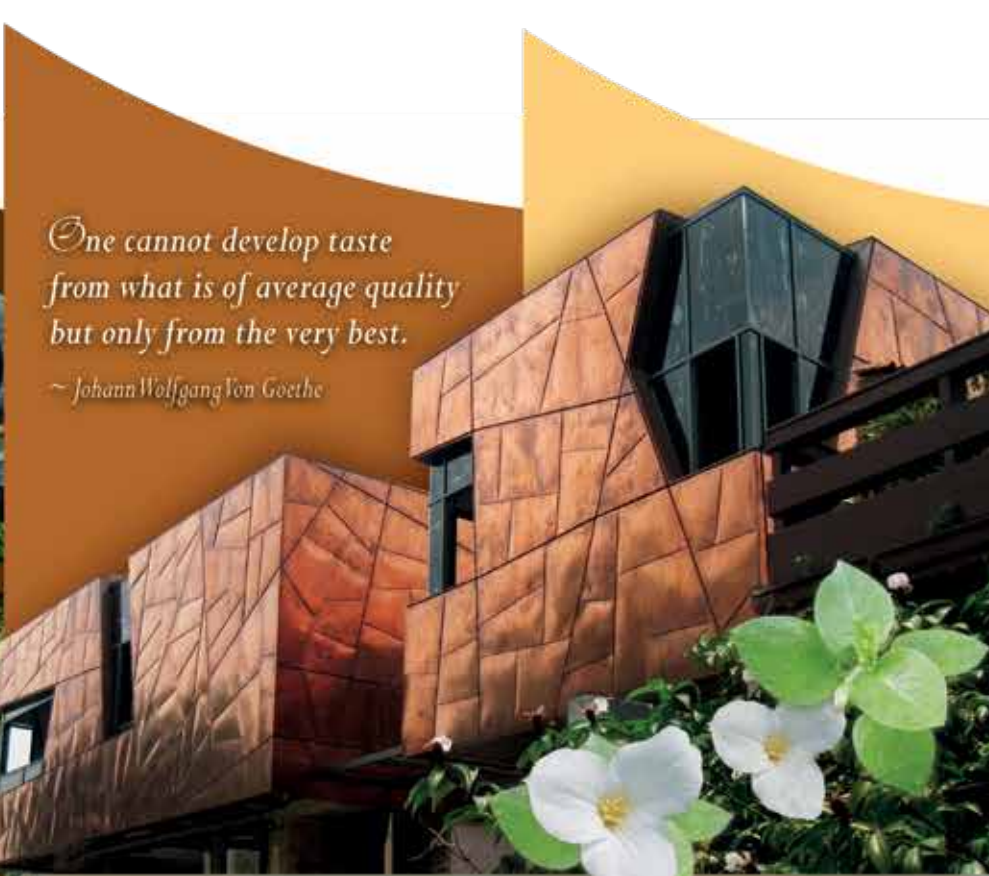
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from what is of average quality
but only from the very best.*
~ Johann Wolfgang von Goethe

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