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adf contents december 2014



25



33

projects

25 Handy Cross hub development

In Wycombe, proposals from the district council are heavily focused on retail and the authority is hoping that by taking control itself of the flagship £150 million Handy Cross development, that this will change perceptions of the Buckinghamshire town. By Steve Menary

33 How can the 'Bolton Model' regenerate unloved urban churches?

By Matthew McKeague, head of regeneration at the Churches Conservation Trust

35 Greenhouse in the Botanic Garden, University of Aarhus sustainable hothouse

The new tropical conservatory at the Botanical Gardens in Aarhus is like a drop of dew in its green surroundings, as C.F. Møller Architects explain

features

41 STRUCTURAL ELEMENTS: TIMBER

Timber construction is on the cusp of a boom

By Dave Hopkins, director at Wood for Good, the timber industry's sustainability campaign

49 EXTERNAL ENVELOPE: DOORS, WINDOWS & CONSERVATORIES

Thermal performance – it's still a hot topic!

Colin Torley, sales and marketing director of The VEKA UK Group discusses which 'deciding factors' play the most important roles in product design, and how specifiers need to choose their suppliers carefully

59 INTERIORS: OFFICE & CONTRACT FURNITURE

A new dimension: adapting design for educational environments

By Robert Mustoe, managing director of The Senator Group

63 DISABLED PRODUCTS AND SERVICES

Specifying accessible bathing solutions

Gainsborough Specialist Bathing identifies five key factors architects should consider when specifying assisted baths for healthcare developments

news & events

- 4 Industry News
- 17 Events
- 19 CPD Focus

HEADLINES

- 5 Major student accommodation complex starts on site
- 8 A clockwork precision of detail distinguishes HSBC Private Bank's new headquarters in Geneva
- 11 WATG-Designed Paradise City breaks ground

products

- 20 Editor's Focus
- 37 Planning & design
- 38 Groundworks
- 39 Structural elements
- 43 External envelope (incl. external fixtures)
- 51 Insulation
- 52 Heating, ventilation & services
- 54 Interiors
- 62 Disabled products & services
- 66 Landscaping & external works
- 67 Classified & directory



Cover image: Greenhouse in the Botanic Garden, University of Aarhus sustainable hothouse © Julian Weyer See page 35 for details

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The European Hotel Design Awards announces its 2014 winners

The European Hotel Design Awards, which celebrate exceptional hotel design and architecture and honour the work of industry-leading architects, designers and hotel operators, has just revealed its roll call of winners and commended

projects. Over 800 guests from across Europe attended the dinner and ceremony.

For a full list of the winners, please visit www.architectsdatafile.co.uk and enter reference number 10058.

EVENT

Vision London to collaborate with the London Festival of Architecture

Vision will be collaborating with the London Festival of Architecture for its first Vision London event which is to take place on the 2 and 3 June at Olympia in London.

Created specifically for architects, specifiers, end users and construction sector suppliers, the annual event will bring these communities together to discuss, debate and showcase the latest innovations and developments in architecture, design and the built environment.

Michael Costain, director at Vision said: "Vision London is delighted to be working closely with the London Festival of Architecture in June 2015. The festival provides London with a unique forum to celebrate innovative architecture and the built environment. Vision London will provide a central hub for the architectural community and will actively link with the festival in 2015. By working together, we will be able to provide a unique forum for debate and discussion among architects, specifiers and their clients."

PLANNING

Atkins-designed Met Office development granted planning

An Atkins-designed Met Office development has been granted planning permission.

Located at Exeter Science Park, the site features a large IT Hall, which will house a major part of the Met Office's new £97 million supercomputer, and a striking two-storey 'collaboration' building which will allow world class research into weather data and climate change.

The design for the collaboration building reflects the patterns on computer circuit boards, with a hexagon outline and non-vertical elevation. Both buildings are designed to be BREEAM Excellent, which is fully in line with the vision

set out by Exeter Science Park. James Harrison, an associate director at Atkins, said: "We wanted to create an instantly recognisable building which articulates the importance of the project and the pioneering work being undertaken by the Met Office."

Atkins and Faithful + Gould are providing design through to RIBA stage 3 including architecture, civil & structural engineering and mechanical & electrical engineering design.

The first phase of the supercomputer will be operational in September 2015 and the system will reach full capacity in 2017.

STUDENT ACCOMMODATION

Major student accommodation complex starts on site

Verde, a major new student accommodation complex in the centre of Newcastle, by Ian Simpson Architects, has started on-site. Located on the Science Central site in the city centre, the new £21 million complex will house 543 student residential bedrooms.

Work on the site is expected to last for just under two years with the first students expected to move in September 2016.

The project has been developed by Downing, one of the North West's leading property groups.

Verde will consist of two buildings located on Pitt Street. The building on the junction of Pitt Street and Wellington Street is V shaped, creating a facade that runs parallel with both Pitt Street and Wellington Street. It rises to a point defining the corner and creating a recognisable symbol for the complex, marking the main entrance.

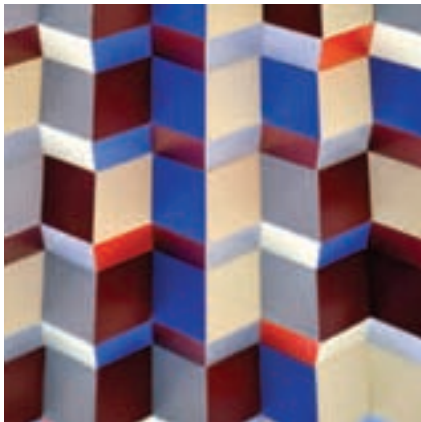
The two structures will be clad in a green glazed terracotta tile. Laid horizontally across both buildings, a selection of projecting tiles create a sense of movement and signal the buildings' entrances.

Dark blue brick is introduced at ground level where the facade has been recessed. Terracotta tiles and brick have been specified due to their robust weathering capabilities and their strong tones and colours.

To the south lies a landscaped courtyard; the elevations surrounding the garden will feature silver aluminium panels arranged in a checkered pattern alternating between matt and glossy finishes. The panels have been selected to reflect the changing colours of the sky.

Verde will sit to the north of the Downing Plaza development which includes The View also commissioned by Downings and designed by Ian Simpson Architects, and will offer students a mix of cluster and studio rooms. It will be completed in August 2016.





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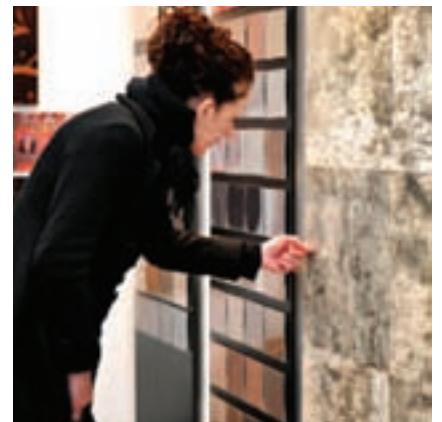
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RESIDENTIAL DEVELOPMENT

CitySuites residential development designed by Flanagan Lawrence wins planning consent

Select Property Group's CitySuites residential project, designed by Flanagan Lawrence, has received planning approval.

The 17-storey scheme rises to approximately 54m above street level at the parapet and consists of 260 studios, one-, two- and three-bedroom apartments, predominantly south and east facing. CitySuites will bring a new concept in rented living to Manchester, offering short term tenancy agreements – from as

little as one month – while also delivering a range of luxury services usually associated with a hotel stay. Facilities will include a reception, gym, lap pool and jacuzzi.

The scheme is aimed at young professionals, executives and business people who want high quality accommodation with the excitement and convenience of living in the heart of the city. The development is located within the Greengate regeneration project close to Manchester Cathedral, and is due for delivery in 2016.

David Lawrence, MD of Flanagan Lawrence, stated: "The design, with its expressed floor plates and sharply angled prow, offers a dynamic context for the public realm of Greengate Square, creating a gateway to Greengate and reinforcing the alignment of Chapel Street."

Gary Colleran, project director at Flanagan Lawrence, added: "The slicing of the building form reduces its apparent mass, resulting in an elegant, dynamic solution."

A café and restaurant occupy an impressive triple-height space at the eastern corner. Glazing is generally located to south and north facades complementing the orientation of the apartment plans. At the eastern end, glazing wraps the corner, reducing the apparent mass of the building and affording occupants with impressive views across the city.

Mark Oakes, chief commercial officer of Select Property Group, commented: "We are delighted to have been granted planning permission for our first CitySuites scheme which will combine the comforts of home with the luxury and convenience of a hotel. The architectural design by Flanagan Lawrence perfectly reflects this proposition."

Currently on-site, the Greengate development will deliver a dynamic new quarter for the city centre, transforming 13 hectares of vacant and under-used land and buildings to create a distinctive and diverse mixed use urban quarter, acting as a catalyst to a new phase of cross-city regeneration in Salford. The essence of the design brief was to generate a high quality, landmark building in the heart of the regional centre, with apartments offering the best of a vibrant, inner city lifestyle and catering for a younger, more independent local population.

The building form responds to urban context, providing an active street frontage at ground level. Public realm is extended right into the heart of the site, while the building form retains important views to the grade 1 listed Manchester Cathedral, particularly from podium level.

The scheme is adjacent to two proposed commercial office buildings, also designed by Flanagan Lawrence, above public car parking and a retail plinth integrating a listed Victorian railway viaduct.

'The slicing of the building form reduces its apparent mass, resulting in an elegant, dynamic solution'

Gary Colleran, project director,
Flanagan Lawrence



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GLOBAL PROJECT OF THE YEAR

A clockwork precision of detail distinguishes HSBC Private Bank's new headquarters in Geneva

'The opportunity to revive the historic buildings rather than demolish them [...] required an architectural language of careful consideration'

Florian Frotscher, partner and project lead architect, Make

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Make's HSBC Quai des Bergues project took home Global Project of the Year at the esteemed FX International Interior Design Awards 2014. Outperforming stiff competition from the likes of HOK and GA Design International, the judges said the following about the project: "a beautiful less-is-more approach to architecture and interiors".

On a prime lake-front setting on Geneva's historic Quai des Bergues, sits a new state-of-the-art front office for HSBC Private Bank. The 16,300 sq m building, designed by Make Architects, unites five of the bank's Geneva offices and delivers a spacious workplace for 650 staff, premium client meeting and dining facilities, and a trading floor – all with views of the River Rhone, Lake Geneva and the Old Town.

The scheme required the restoration and consolidation of seven historic, structurally independent buildings into one new building, comprising two basement levels, a ground floor level, and seven floors. A new, single atrium formed from the existing central courtyards runs up the building and internally links together the main elements of the scheme.

The works retained important historical elements and details of the existing site, as interspersing the city's heritage with the bank's position as a major international player was central to the design brief.

As Florian Frotscher, Make partner and project lead architect, stated: "The opportunity to revive the historic buildings rather than demolish them, and the need to integrate modern functions, required an architectural language of careful consideration and a balance of constraints with opportunities."

The buildings are unified by the creation of a regular roof geometry across the two upper floors, clad in traditional tiles in line with the heritage requirements. Fully glazed dormer units, a first for Geneva, add a striking but discreet contemporary element to the roof. A natural stone ground floor facade replaces the previous 1960s glass fronts and the addition of metal canopies creates a contemporary interpretation of the traditional canopy theme and complements the roofline of the new dormer windows.

The architectural concept of balance continues into the interior. The necessity for confidentiality in the bank determined



a design that both interlinked the staff and client facilities and conversely kept the two worlds apart. A light, natural oak signifies the predominantly open-plan staff areas, while darker American walnut prevails in the reception areas, meeting rooms and private dining rooms. Clients can choose to have complete privacy, should they wish, through the use of their own entrance to the building and dedicated lifts, which transport them direct to the client facilities.

A sense of enclosure has been achieved in each of the meeting and dining rooms where the internal wall finish curves at the junction of roof and wall. This is reflected in the horizontal joinery 'strata' elements running along the corridor walls and spilling into each of the meeting and dining rooms; its form becomes a contemporary re-interpretation of traditional wood panelling, and incorporates shelving, storage and digital displays.

In line with Swiss energy regulations, it was important to consider sustainability measures in the overall scheme and in relation to the architectural themes. The innovative use of lake water to cool the building is juxtaposed with the craftsmanship applied to the use of locally-sourced, natural materials in all the main spaces.

HSBC Quai des Bergues was completed in collaboration with local architects Itten Brechbühl SA in spring 2014. It becomes Make's second HSBC project following the successful delivery of HSBC Private Bank's Back Office at Blandonnet in 2010.





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DEVELOPMENT

Keppie to design new council office

Leading architectural practice Keppie has been appointed to design a new office building for West Dunbartonshire Council on behalf of hub West Scotland. The development, which will replace the current Garshake Road office, will be located on Castle Street in Dumbarton's town centre. The project will utilise an existing Grade A listed facade which was formerly part of Dumbarton Burgh Hall and designed by renowned architect William Leiper in 1865. Keppie has been instructed as design and landscape architects as well as interior designers for the new building, which will enable the Council to relocate staff

from existing offices throughout Dumbarton and bring them together into one central location. The project reinforces the Council's commitment to regenerate Dumbarton's town centre.




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PARADISE CITY, SOUTH KOREA

WATG-designed Paradise City breaks ground

Set to open in 2017, Paradise City, designed by global design firm WATG-Honolulu, broke ground 20 November.

Positioned to be the first integrated resort (IR) in South Korea, Paradise City is being developed through a joint venture between Korea's casino operator Paradise Group and Japan's entertainment group Sega Sammy Holdings, Inc.

Located in the International Business Center of Incheon International Airport, the highly anticipated IR will serve as the gateway, the Korean Wave "hallyu," for foreign travellers seeking a unique resort and entertainment experience.

Sean Sih-Young Jeon, vice president, WATG, said: "To showcase Korea's rich cultural, social and commercial identity in the design of the country's first integrated gaming/entertainment resort was a fascinating aspect to this project.

"Inspired by this vision, we created smooth transitions between the different resort 'zones' to offer a unique integrated resort experience for visitors."

Paradise City will have seven distinct zones, each featuring its own unique experience, thence providing visitors a feeling of embarking on a voyage.

Robert Payan, senior vice president, WATG, said: "The building architecture was designed to reflect a sense of timelessness, but with a 'modern energy' vibe.

"Our approach was to design the core of the buildings with a 'timeless modern classic' influence, and then to introduce 'purely modern' forms to give the structures a new vibrant energy."

Payan continued: "We have designed a 'stage set' in the master plan for Paradise City to feel like a 'city fabric' where guests will want to explore and lose their sense of time.

"The concept of time is represented by a 'city built over time' reflecting and recalling the past, present, and future. The integration of these overlapping concepts is what will make Paradise City a rich environmental experience for all visitors."

WATG's design office in Honolulu has been closely involved with the development of Korea's gaming and resort industry with the design of several resort/casinos over the past two decades, such as Shilla, Hyatt and Lotte in Jeju and Korea's only domestic casino, Kangwon Land.



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UNUSUAL LOFT CONVERSION

London designer reveals unusual London loft conversion where design, not space, is top priority



London-based architectural practice TwistInArchitecture – founded on the principle of creating buildings with an unusual twist – unveiled its latest completed project: a loft conversion which bucks the trend of homeowners who are “blindly clawing” for every available meter squared when they undertake renovation projects, in favour of using existing space and floorplans in more intelligent ways, to suit specific user needs.

The practice explains how its recent loft conversion on Clapham Common (South side) did not have a traditional ‘dormer’ added to the roof simply to cram in a small additional room and awkward staircase, but instead saw the creation of an open floorplate with a ‘hanging gallery’ and spiral staircase, which appears to be floating in the middle of the study. This was achieved by removing the existing loft floor structure and demolishing all walls at mansard level, delivering a spatially interesting solution, while adding approximately 15 sq m of functional and usable space.

The project reveal comes at a time when house price rises in London are leading to increasing numbers of domestic redevelopments and extensions being built to maximize values.

Co-Founder of TwistInArchitecture, Andreja Beric said: “More and more we

see the prevailing trend in residential alterations to grab every possible meter squared, resulting in bastardised and awkward spaces which people can’t even use properly afterwards. Clearly this is being driven by London’s housing market, and limited stock of period buildings in particular, but it is short-sighted and counter effective. We aim to provide our clients with smarter solutions, which are more usable and practical, based on the logic of extending and converting spaces more intelligently.”

Beric also points to the fact that architects have a responsibility to develop a design idea at the outset, which can be built without compromise, regardless of any obstacles which arise.

He continued: “We can say, with much pride, that the architectural idea behind the project remains intact from the teaser sketch, to the visual, and further to build reality, obviously with full support by our client. For the Clapham project we wanted to take what looked at first like an ordinary project, and design something beautiful that both looked good and cleverly utilised the space. We did this by combining the ultra-modern with the site’s Victorian heritage, style and decor, via the sweeping ‘growing’ spiral staircase, which stands on a mere needle on the floor. The staircase is modelled on the spiral at the right hand side. It is a golden ratio, and

derived from the number Pi, which was considered perfect in ancient times. It was our way to stay in the classical and decorative Victorian style, while being faithful to contemporary architecture and clean forms. For the same reason the gallery structure is black – to emulate Victorian ironwork. The growing form of the spiral was used to blend the staircase into the gallery so we achieved seamless joint.”

However, the project was not without its challenges. Beric explained: “It is in a conservation area, meaning we could not move the existing ridge due to the planning conditions, and as there was a history with unsuccessful planning applications, we wanted a solution that did not involve a lengthy process, while ensuring the clients would get what they need. Limited head height in the loft was also constraining the usefulness of a potential dormer towards the rear, and as they required one large space rather than one more bedroom – that solution was out of the question.”

Beric concluded: “Too often we see London projects where clients are blindly clawing for every available meter squared, so we are pleased to have been able to challenge the typical solution, and prove that space can be enlarged in an aesthetic way, while also maintaining smooth planning processes and fulfilling clients’ needs.”

‘The architectural idea behind the project remains intact from the teaser sketch, to the visual, and further to build reality, obviously with full support by our client’

Andreja Beric, co-founder,
TwistInArchitecture

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FUTURISTIC SHOWROOM

Waterfalls, chandeliers, and multiple levels; futuristic bathroom showroom and office opens in London



The major new headquarters for Bathroom Brands and Crosswater has completed in Dartford, South East London. The new expansive HQ for the bathroom specialists sees the creation of a new office and warehouse as well as a state-of-the-art bathroom showroom that creates an imaginative and intriguing experience like no other.

Creativity and functionality combine as Young Architect of the Year nominated Threefold Architects designed the refined offices and Coppin Dockray Architects, the dramatic showroom, complete with a waterfall experience and an immersive chandelier installation that acts as a guide throughout the showroom.

Coppin Dockray was briefed to create a memorable showroom experience that would display and showcase each of the company's brands. The result is a new 10,000, sq ft showroom, the Gallery. The showroom was designed and constructed in just eight months, along with the entire warehouse. In the transition from the office spaces into the showroom, the visitor is greeted by an oval entrance chamber that acts as a dramatic pause to

enhance anticipation. Upon entering this space, a sensor is alerted producing a cascade of water from showerheads above, disguised behind a veil of golden basin chains, creating an atmospheric but calming entrance for the visitor.

As the visitor moves through the space, a series of square arches define the gallery. Over 5,000 glass spheres swirl through the central arcade, acting as navigation through the showroom. Taps and basins are located in a geological landscape where diagonal plinths bring the products to life as the visitor weaves through the curated display. Zig-zag fabric and mirrored wall panels create myriad reflections within the space. While moving through the space, floor to ceiling windows offer a glimpse into the vast warehouse and storeroom.

The journey through the showroom is a sensory experience of being plunged into areas of darkness with soft lighting before moving into brighter spaces. The final element of the showroom is a darker area of glowing spotlights that illuminate taps and shower controls around a golden glowing pool, made up of gold and silver ball chains. These products can be played with as overhead showers turn on and off into a golden chain lattice controlled by the visitor.

Materials synonymous with bathrooms and plumbing such as mirrors, ceramics, chains, brass and copper piping are used in unfamiliar ways throughout the showroom in contrast to the bright office space.

As well as designing the the Gallery, Coppin Dockray created the staff bathrooms that include artwork and the products of both the companies.

The office, designed by Threefold, unites the various departments of the company under a single roof and incorporates a café and event space.

In response to this need for unity,

Threefold designed a multi-levelled office consisting of circulation spaces and connection points named the Bridge'. Conceived as a continuous folded surface, the Bridge is constructed from pre-fabricated cross-laminated spruce. The Bridge creates large and small-scale meeting and social spaces enhancing the working environment. The architects also felt that the connectivity was a vital aspect of the design and should help to choreograph a journey from the office through to the showroom.

Four hundred white timber, laser cut fins line the walls and ceiling, creating an undulating surface around the Bridge and office spaces. These fins diffuse and reflect light, softening the space and connect with the floor plates. Acoustic baffles that hang from the ceiling control the acoustics on both levels and also creates a subtly coloured cloud-like surface across the office.

The architects shadowed the staff to understand the end user; they undertake this for every project in order to truly understand their client. In response to the client's brief, and after shadowing the staff, the overall concept for the Bridge was developed adding a new, bright café and an outdoor terrace was created with a playful bar area, dubbed, the Man Cave. Together these create a social space for both staff and visitors.

The building has achieved a BREEAM Excellent Rating with design elements such as daylight sensitive lighting to keep constant lighting levels in the office.

Both Coppin Dockray and Threefold have, through intelligent design created two exemplary spaces, demonstrating how more can be achieved beyond the basic functions of an office and showroom. These designs prove that dramatic experiences can be realised in any environment.

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Benoy's Woking Town Development receives planning permission for next stage

Benoy, the international, award-winning firm of architects, master planners, interior and graphic designers, is delighted to announce that its project, Victoria Square, has secured unanimous detailed planning approval from Woking Borough Council. Permission allows for the next stage of this exciting redevelopment to move forward.

The truly mixed-use, retail-led development will bring new life and energy to the heart of Woking. Creating a gateway to the town and significantly improving the public realm, Victoria Square is the first new external public space for a generation. The scheme will include an almost 6,000 sq m Marks & Spencer store, a 4-star hotel with conference facilities set within a 21-storey tower, residential apartments housed within a 34-storey tower and a third 30-storey tower, a medical centre and two new public plazas.

David Ellis, Benoy director and London studio head said: "It is always



an important moment when a project receives approval; it signals the start of the hard work and the beginning of the realisation of the vision for Woking."

"The Victoria Square development is an exciting project with a multitude of retail, entertainment and food and beverage options which we believe will entice residents and visitors to Woking

and encourage them to shop, explore and enjoy the heart of the town".

The Victoria Square scheme is a key part of the wider town centre master plan. Being designed over several phases, Benoy is also responsible for the ongoing reconfiguration projects within both the Peacock Centre and Wolsey Place.

'It is always an important moment when a project receives approval; it signals the start of the hard work and the beginning of the realisation of the vision for Woking'

David Ellis, director and London studio head, Benoy

BOOK

New book explores cutting edge design research in outer space



Forty years on from the first moon landing, architecture in Space is entering a new era. Over the last decade, there has been a fundamental shift in the Space industry from short-term pioneering expeditions to long-term planning for colonisation, and new ventures such as Space tourism. Architects are now involved in designing the interiors of long-term habit-

able structures in Space, such as the International Space Station, researching advanced robotic fabrication technologies for building structures on the Moon and Mars, envisioning new 'space yachts' for the super-rich, and building new facilities, such

as the Virgin Galactic Spaceport America in New Mexico. The mystique of Space remains as alluring as ever, as high-profile designers and educators are running design studios drawing upon ever more inventive computational design techniques.

Space Architecture: The New Frontier for Design Research, edited by architect and theorist Neil Leach, is the latest title in the prestigious Architectural Design (AD) series. Providing an overview of cutting-edge design research for Outer Space, the book features the most significant current projects underway and highlights key areas of research in Space, such as energy, materials, manufacture and robotics. The first book of its genre to exclusively focus on architectural research, it also looks at how this research and investment in new technologies might transfer to terrestrial design and construction.



AWARD

Atkins' TEDA H2 Building won Best Innovative Green Building award by MIPIM Asia 2014

'H2 Building has demonstrated an energy-saving, comfortable indoor building environment through different aspects of architectural and engineering designs'

The Atkins-designed TEDA H2 building, the highlight of the Tianjin TEDA Modern Services District (MSD), has been crowned bronze award for Best Innovative Green Building by MIPIM Asia, a prestigious award decided by an international judging panel of industry experts that recognises the property industry's best and brightest, rewarding innovation and achievement in a variety of fields through.

Bertil de Kleynen, Atkins' director for architecture and landscape in Asia Pacific, said: "I am extremely excited about winning this leading industry award. It is a great recognition to Atkins' design capability and this truly unique green building."

The newly opened TEDA H2 Building is the world-first low-carbon building which has been accredited with four green building certificates under different assessment schemes: the US LEED (Gold), the Chinese 3-star (3 stars), the Japanese CASBEE (S Class), and the British BREEAM (Very Good). The demonstration project will serve as a platform for research of new green technologies.

H2 Building has demonstrated an energy-saving, comfort-

able indoor building environment through different aspects of architectural and engineering designs. Atkins' design team has applied an array of layered facade structures and unique high performance materials to provide sustainability to the building; photovoltaic panels are installed on the southern side for solar energy conversion, double glazing glasses are installed on the southern facade to provide better insulation to improve energy efficiency, and a grey water system is designed and used for reducing potable water consumption.

In addition to be the architect for the TEDA H2 Building, Atkins is also the lead designer for the Tianjin TEDA Modern Services District (MSD), responsible for the entire project design from planning to construction. Covering a GFA of 1.34 million sq m, Tianjin TEDA MSD is a development zone that is identified to promote the city's importance as an economic centre for northern China.

De Kleynen added: "This project is a great showcase of Atkins' integrated solution to support our client to achieve sustainable urban development that is future proofing."

events

AWARDS

British Homes Awards
16 October 2015, London
britishhomesawards.co.uk

Brick Awards
18 November 2015, London
www.brick.org.uk/brick-awards

CONFERENCES & SEMINARS

Smarter London: How digital technologies are shaping the city
Until 18 December, London
www.newlondonarchitecture.org/exhibitions.php

Neighbourly Matters: Rights of Light and Party Wall
15 January 2015, Gateshead
20 January 2015, Exeter
5 February 2015, Reading
www.architecture.com/whatson

Architecture for an Ageing Population
21 January 2015, Manchester
22 January 2015, Liverpool
18 February 2015, Nottingham
www.architecture.com/whatson

Building Pathology and Historic Buildings
21 January 2015, Leeds
29 January 2015, Chelmsford
12 February 2015, Gateshead
www.architecture.com/whatson

Don't Move, Improve!
Until 12 February 2015, London
www.newlondonarchitecture.org/exhibitions.php

Greener Buildings: Common Sense, Innovation and Things to Avoid
19 February 2015, Cambridge
www.architecture.com/whatson

COURSE

Realising the Value of Character
29 January 2015, Derby
www.architecture.com/whatson

The Drawing Gym for Architects and Spatial Designers
19 & 26 January, 2, 9 & 16 February 2015, London
www.buildingcentre.co.uk/events

EXHIBITIONS

Shape My City: Ideas for a youth-friendly city
Until 23 December, Bristol
www.architecture.com/whatson

Mackintosh Architecture
Until 4 January 2015, Glasgow
www.gla.ac.uk/hunterian/visit/exhibitions/
(Click through to Exhibition Schedule)

Urban Plunge
Until 10 January 2015, London
www.rocalondongallery.com/en/activities

Constructing Worlds: Photography And Architecture in the Modern Age
Until 11 January 2015, London
www.architecture.com/whatson

100 Buildings 100 Years
Until 1 February 2015, London
www.royalacademy.org.uk/page/architecture

Chamberlin, Powell & Bon Architects
Until 22 March 2015, London
www.barbican.org.uk/artgallery

The Modern Lens: International Photography and the Tate collection
Until 10 May 2015, St Ives
www.tate.org.uk/stives

FESTIVALS

Clerkenwell Design Week
19 - 21 May 2015, London
www.clerkenwelldesignweek.com

London Festival of Architecture
1 - 30 June 2015, London
www.londonfestivalofarchitecture.org

London Design Festival
19 - 27 September 2015, London
www.londondesignfestival.com

TALKS, LECTURES & DEBATES

CDM 2015: Practical Application for Architects
21 January 2015, Nottingham
www.architecture.com/whatson

Counting the Costs of the Housing Crisis
26 January 2015, London
www.royalacademy.org.uk/exhibitions-and-events

The Upsides of Good Housing
28 January 2015, London
www.royalacademy.org.uk/exhibitions-and-events

Planning Law Update
22 April 2015, Nottingham
www.architecture.com/whatson

TOURS

Realising the Value of Character
25 January 2015, Derby
www.architecture.com/whatson

How Historic Buildings Work
5 March 2015, Lincoln
www.architecture.com/whatson

Open House London
19 - 20 September 2015, London
www.openhouselondon.org.uk

TRADE SHOWS

Architect@Work
21 - 22 January 2015, London
www.architect-at-work.co.uk

Surface Design Show
10 - 12 February 2015, London
www.surfacedesignshow.com

UK Concrete Show
25 - 26 February 2015, Birmingham
ukcs2014.businesscatalyst.com

Ecobuild
3 - 5 March 2015, London
www.ecobuild.co.uk

SustainabilityLive / NEMEX
21 - 23 April 2015, Birmingham
www.sustainabilitylive.com

May Design Series
17 - 19 May 2015, London
www.maydesignseries.com

Design in Mental Health Conference & Exhibition
19 - 20 May 2015, Birmingham
www.designinmentalhealth.com

Vision
2 - 3 June 2015, London
www.visionlondon.com

Eco Technology Show
11 - 12 June 2015, Brighton
www.ecotechnologyshow.co.uk

FIREX / IFSEC International
16 - 18 June 2015, London
www.ifsec.co.uk

Decorex
20 - 23 September 2015, London
www.decorex.com

100% Design
23 - 26 September 2015, London
www.100percentdesign.co.uk

Timber Expo
6 - 7 October 2015, Birmingham
www.timber-expo.co.uk

The Build Show
6 - 8 October 2015, Birmingham
www.buildshow.co.uk

Healthcare Estates
20 - 21 October 2015, Manchester
www.healthcare-estates.com

Greenbuild Expo
10 - 11 November 2015, Manchester
www.greenbuildexpo.co.uk

Education Estates
10 - 11 November 2015, Manchester
www.educationestates.com

Sleep
25 - 26 November 2015, London
www.thesleepevent.com



Gilgen Door Systems wins £1.5 million Louvre Abu Dhabi contract

Gilgen Door Systems has won a landmark £1.5 million contract to supply high-security shutters, sectional overhead doors and security grills for the new 24,000 sq m Louvre Museum in Abu Dhabi, UAE; one of the World's highest profile building projects. Due for completion in 2015, Louvre Abu Dhabi will be a cultural institution of global importance, housing priceless works of art from around the world. The contract includes the supply of SR4 security rated shutters providing high levels of physical protection and operational efficiency for the museum. Manufactured in the UK and meeting 'Police Preferred' and 'Secured by Design' standards, Rolegard high security shutters help facilities to reduce security threats through proven target hardening measures. Tested by BRE against anti-jacking, prising, gouging, impact, cutting and drilling, the Rolegard SR4 security shutter was the first to achieve LPS1175, Issue 7, Level 4 certification and is the only one to have passed a supplementary test for stainless steel profiles. The Rolegard units will be supplied in a variety of sizes up to 7 metres high by 8.2 metres wide.

0800 316 6994 www.gilgendoorsystems.co.uk

enq.106

news bytes

Visit the website www.architectsdatafile.co.uk and enter the reference number for more information

GEZE UK Strengthens Automatic Sales Team with appointment of Andy Iredale...
Ref: 56997

"Whatever happened to planning in London?" – first in a series of disruptive Archiboo talks supported by The Collective...
Ref: 99529

Christine Hammarling receives adjunct professorship at Chalmers...
Ref: 64291

Bristol housing project wins environmental award...
Ref: 67719

BCSC marks end-of-year celebration with future president announced...
Ref: 71184

JLL unveils newly revamped London office headquarters...
Ref: 78749

Mouzhan Majidi to join Zaha Hadid Architects...
Ref: 80669

Sika investment receives royal seal of approval...
Ref: 84420

New Aktiv Partner Peninsula Home Improvement joins Solarlux network...
Ref: 74319

West Leigh Limited is pleased to announce the appointment of a new director...
Ref: 62900



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enq.107

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0845 671 7174
www.cellecta.co.uk

enq. 108

ACRYLIC BASED SOLID SURFACE AND PERFORMANCE DOOR BLANKS



James Latham's CPDs on *Acrylic Based Solid Surface* and *Performance Door Blanks*, have both been developed in conjunction with the RIBA. The performance door blanks CPD focuses on five key learning aims and addresses the concept and significance of performance door blanks. The acrylic based solid surface CPD provides a greater understanding of this versatile material and its applications.

0116 257 3415
www.lathams.co.uk

enq. 111

'CHANGING PLACES'- WHAT IT MEANS

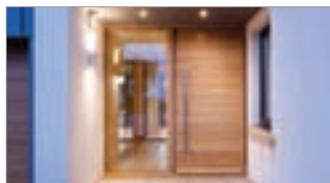


Clos-o-Mat, the UK's leading manufacturer and supplier of disabled toileting solutions, has developed a bespoke Changing Places CPD seminar. The presentation addresses exactly what Changing Places are, the rationale behind them, the considerations for creating them, and the equipment and services needed to comply, helping the industry understand what is required, and how it can be achieved.

0161 969 1199
www.clos-o-mat.com

enq. 109

URBAN FRONT ANNOUNCES NEW WORKSHOP TOUR



Urban Front has announced its Workshop Tour, launching early next year. The workshop tour will run for just over an hour and incorporate the following learning outcomes: A good understanding of how a contemporary hardwood door is manufactured; a better understanding of the types of hardwood and their benefits; a good ability to interpret CADs used for manufacture; a better ability to specify doors correctly; and an understanding of the various issues related to making doors.

01494 778787
www.urbanfront.co.uk

enq. 112

SPECIFYING SEAMLESS RESIN TERRAZZO



Architects looking to earn CPD points while learning more about the science and beauty of terrazzo flooring can contact **Flowcrete UK** now to book their place on this informative and beneficial opportunity. The fascinating new seminar provides an in depth background into the traditional history of terrazzo, and will cover the many benefits of using seamless terrazzo systems compared to out-dated traditional tiles.

01270 753000
www.flowcrete.co.uk

enq. 110

MAXIMISING AIRTIGHTNESS IN ROOF CONSTRUCTION

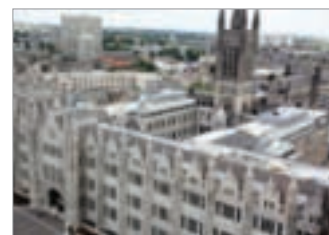


Klober's fully updated CPD presentation *Maximising airtightness in roof construction* examines implications of changes to Approved Doc L1A and the discontinuation of the Code for Sustainable Homes. It covers SAP analysis, implications of specific rates of air permeability and the effects of airtightness accessories in combination with better fabric insulation and other low energy measures.

01332 813050
www.klober.co.uk

enq. 113

SELECTING EFFECTIVE AND SECURE FLAT ROOF SYSTEMS



Sika Sarnafil is pleased to announce the new RIBA approved CPD for Sika Sarnafil entitled *Selecting Effective and Secure Flat Roof Systems*. This CPD introduces the key components for a successful and effective roof system, covering design, materials and workmanship. An outline of additional areas included is below:

- typical application areas
- key factors in roof design and product selection
- key standards and guidelines
- sustainability
- typical challenges
- quality assurance
- history and group information

For over 50 years Sika Sarnafil has provided high quality single ply roofing solutions, backed by decades of expertise and market leading guarantees. Sika Sarnafil's exemplary commitment to training is widely recognised in the roofing industry, and this commitment extends to the Continual Professional Development of construction professionals. The company's range of RIBA accredited CPD seminars support specifiers, contractors and clients' understanding of the issues surrounding the specification of single ply roofing. If you are looking for assistance for selecting an effective and secure flat roof system and require further information on this seminar please contact Sika Sarnafil.

01707 394444
sarnafilroofing@uk.sika.com

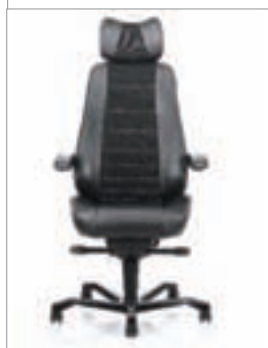
enq. 114

editor's focus

KAB Seating

KAB Seating's WhiteLine Range has been designed as a premium seating solution for office environments. Combining sleek designer looks with adjustable user functionality, the WhiteLine range is perfectly suited to office environments, especially 24/7 office environments. Each chair features a range of adjustable features including back angle adjustment and lumbar support. Furthermore, the range is available in durable fabric and leather trim options and suitable for operator weights of up to 200kg, which offer a product guarantee of up to five years.

enq. 115



The Study Bed Company

If you're specifying office furniture the Study Bed Company could offer: ability to double work space in an instant; enable meetings at desks without invasion of privacy; provide screening from colleagues yet able to switch to conference mode in just seconds; and generally more space. The Study Bed Company believes its new product can fulfil all these wishes; it is called the ConverTable Desk and it is set to revolutionise the way we use our office space. For more information, images and a video demonstration, please visit the company's website.

enq. 118

Vetrotech Saint-Gobain

Vetrotech Saint-Gobain is one of the world's leading manufacturers of fire glass for the building sector. With over 30 years of specialised experience, the company has built a solid reputation for delivering cost effective, multifunctional glass of exceptional quality and effectiveness. Vetrotech understands that every project has a unique criteria and if required the company is able to discuss every application case by case to ensure compliance to fire and building regulations. Ranging from special toughened base glasses to intumescent interlayer products, the optimal glass can be offered for every fire-protection demand imaginable while perfectly blending with adjacent non-fire glass types.

enq. 116

Fire Retardant UK

ASFP member Fire Retardant UK Ltd has further test results for its eco-friendly fire retardant HR Prof certificates available for Euro-class B (equivalent to UK "Class O") on: Spruce, Pine, Western Red Cedar, Scotch Larch, Siberian Larch and Oak, Birch plywood achieves Euro-class C. In the interests of Fire Safety, Fire Retardant believe that external weathering testing should be compulsory for all external use fire retardants in the UK. HR Prof is easy to apply by spray, brush, roller or vacuum and is specified on many large projects throughout the UK.

enq. 117



Gripsure

Gripsure was specified to supply a boardwalk jetty beneath the iconic skyscrapers of Canary Wharf in London. Gripsure Home was chosen as the preferred profile due to its excellent slip resistance rating and 15-year preservative guarantee, as the previous deck was worn out. The decking leads out from a recreational area to a viewing platform overlooking the Blackwall Basin, which allows visitors to take in the famous sights, while also maintaining safety in an environment exposed to large amounts of water.

enq. 120

Carron

After a period of investigation and further significant recent investments in newer foundry equipment, Carron is pleased to announce an increased efficiency when producing its four-column, Victorian cast iron radiators. Coupled with proven results in using the company's products with ground source heating and the natural longevity that comes from using a robust and ultra-strong material like cast iron. Rest assured, Carron won't compromise on quality and can still promise a 10-year guarantee offered on all radiators.

enq. 119

JT Pumps

JT Pumps' sewage pumping stations and grey water pumping stations are ideal for use in areas where gravity flow is not available. At JT Pumps, the company supplies packaged pumping stations for small extensions, garden annexes, basement flats going up to houses, schools, pubs, caravan sites, and supermarkets (Vortex or Macerator pumps). All the systems comply to building regulations which insist on a minimum of 150 litre capacity per person per day for a main sewage pumping station with a 50mm solids handling sewage pump. Most pumping stations are held in-stock for next day delivery. For more information please call 08444145800 or visit the website.

enq. 121



Ochil Timber

Ochil Timber is currently supplying roof trusses for the latest phase of Student Residences at St Andrew's University's Fife Park site. In total the £73,000 contract will see Ochil supply 600 roof trusses for the nine accommodation blocks over a six to eight week construction period. These are being manufactured off-site in Ochil's Denny fabricating plant, using sustainably sourced timber. Ochil is providing trusses on a 'supply only' basis on this phase to contractor CCG, but on earlier phases they provided supply and erect services for roof trusses to Morrison Construction and roof trusses and structural timber frames to Sir Robert McAlpine.

enq. 124

Cooke Brothers

As sole UK stockists and distributors of the PIVOTA® series of fully concealed, three way adjustable, four knuckle precision hinges, Cooke Brothers is proud to introduce the new DX80 3-D ZA extended throw hinge, which has been designed to provide a full 180° of operation, while providing the option of a completely flush sight line between the door and the wall fascia. The DX80 incorporates 15mm of extended throw, allowing the door to swing fully open past extra wall cladding, an architrave or for the hinge to be set further in from the edge of the timber frame, simplifying the machining process. The DX80 is suitable for a maximum door weight of 80kg per pair and includes three dimensional adjustment and maintenance free bearings.

enq. 122

Kedel Limited

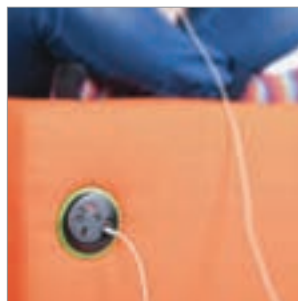
Gates and fencing generally need attention after two years and replacement after seven. Treated wood doesn't last like it used to. Whitefriars and Your Housing Groups decided to go green, and not just for the PR. Recycled plastic lasts at least five times longer than wood. It saved them 80 per cent on maintenance and replacement budgets. For companies averaging £100,000 a year on maintenance, that's an £80,000 annual saving. They got their recycled plastic fence pales and rails from Kedel Limited in Lancashire. For more information, please email or call Kedel, or visit its website.

enq. 123

Dura Composites

State-of-the-art Hopewood Park sets new benchmarks for quality and long term value in modern mental health accommodation using Dura Cladding composite timber cladding. The natural wood look and texture of the Dura Cladding enhances the feeling of tranquillity and connection with the local landscape. As well as contributing so much to the overall design ethos, Dura Cladding is easily installed, needs minimal maintenance and will not splinter, warp or rot throughout its 50 years' design life expectancy, while retaining the vast majority of its colour following the initial weathering period.

enq. 126



OE Electrics

OE Electrics (formerly Office Electrics) is expanding to provide solutions to sectors such as hospitality, education, leisure, healthcare and airports, as well as offices. Recognising that its current product range and design team were able to provide solutions outside the office sector, Office Electrics became OE Electrics. OE now provides bespoke designs for airport seating allowing users to power up and charge mobile devices. With the evolution of technology within the classroom, the company can also provide solutions for safe, accessible power outlets with its USB Fast Charger.

enq. 125

editor's focus

Roto international

With Patio Life, the key advantage is just how heavy that sash can be. To be precise, 400kg. At the same time, it remains incredibly easy to operate. This is a sliding system – not a lift and slide. All the user has to do is turn the handle and slide the door across. All of this is achieved because of the Roto gasket system. Instead of the sash being lifted, the horizontal seals are raised instead. It explains how the system is able to make sliding the door so effortless and meet all the requirements of EN 13126-16 for sliding doors.

enq. 127

Fivestars

Fivestars Ltd are manufacturers and installers of high quality contemporary balustrades using just glass or stainless steel and glass to trade professionals and discerning private clients requiring something different. The frameless glass balustrade uses a special stainless steel clad aluminium shoe to secure the glass panels in place so there are no obvious supporting posts to interrupt the eye together with 15 mm toughened glass panels. For more information visit the website.

enq. 128

Jetmaster Fires

A Jetmaster inset stove gives a home a welcoming warmth that cannot be compared to a gas or electric fire. Light up a fire and see the walls coloured with tones of glowing warmth and you'll feel the difference. With fuel efficiency of up to 86 per cent, heat is released to the room, not lost up the chimney. Jetmaster inset stoves carry a focused, clean line appearance featuring a large glass window – a full view of the flame picture. Crafted lovingly in Hampshire, these are British made stoves designed for British homes.

enq. 129



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GEZE UK appoints Matt Gater



GEZE UK has continued its expansion programme with the appointment of Matt Gater as specification sales manager for North of England & Scotland. Matt, has more than 10 years industry experience and is a BS 7036 and EN 16005 Authorised Technician, will be providing specification support on GEZE's

manual closer, automatic door and window technology product ranges. In his new role he will provide advice, technical information and customer support to architects and specifiers to ensure they choose the right solutions for each project. He will also assist the area sales teams to develop new business across the region.

01543 443000 www.geze.co.uk

enq.131

RigiSystems to market CENTRIA products



RigiSystems has signed an agreement to market CENTRIA products throughout the UK, Europe and the Middle East. Based in the USA, CENTRIA now also manufactures in other parts of the world and in its 100 year history has grown to become a world leader in exterior metal architectural systems. Products include its

Dimension Series insulated composite architectural wall system and its unique Versacote metal coating system (marketed in the rest of the world as Versacor).

01905 750500 www.rigisystems.org

enq.133

Tile Association sponsorship campaign



The TTA is releasing its exciting sponsorship opportunities for the 2015 TTA Awards. To be held at St Johns Hotel, Solihull, on 18 April, the Awards will be the tile industry's most prestigious event of the year. They will recognise the brightest and

best individuals, the most innovative new products and the sector's best and most interesting projects on a glittering awards night attended by the crème de la crème of the industry. A range of high-impact, value-for-money sponsorship packages are available, presenting a superb opportunity for companies operating within the tiling industry to raise their profiles in front of the industry's top decision makers.

0300 265 8453 www.tiles.org.uk

enq.135

Architectural Design Awards launched



Entries are now invited for the 2015 European Copper in Architecture Awards 17, a celebration of contemporary architecture and showcase for architects designing with copper and its alloys. The final deadline for receipt of entries is 30 April 2015. This biennial award continues to grow in

stature, with a record 82 entries in 2013. It not only demonstrates exemplary and innovative uses of copper in design but also offers wider exposure of the very best in architectural projects around Europe, some of which might otherwise go unrecognised. The entry form can be downloaded from the website where information from previous awards can also be viewed.

01442 275705 www.copperconcept.org

enq.137

Gerflor acquisition of Connor Sport Court



International flooring specialist Gerflor has announced its acquisition of US company, Connor Sport Court International, in a move that will expand the company's global market reach and sports product range portfolio. This acquisition brings together three world-class sports brands; Connor, Sport Court and Taraflex all under one

flagship group. The two companies' combined resources will enhance their ability to offer more innovative solutions and improved services to their customers on a worldwide scale. Both CEOs have acknowledged that this move capitalizes on each company's strengths for the benefit of both businesses and customers alike.

01926 622600 www.gerflor.co.uk

enq.132

Signbox scoops gong at British Sign Awards



Signbox received a double recognition at the inaugural BSGA British Sign Awards, picking up the 'The Innovation Award 2014' and receiving a nomination for 'Wide Format Project of The Year 2014'. These accolades demonstrate the breadth and diversity of the signage specialist's products and services. Signbox won The Innovation Award

for its pioneering stair-climbing programme with StepJockey, an exciting health initiative that uses Signbox Smart Signs with NFC (Near Field Communications) in the workplace. The company's work on the office fit-out of investment firm Invesco, was 'highly commended' in the Wide Format Project of Year category.

01784 438688 www.signbox.co.uk

enq.134

Hunter Douglas showcases innovation



Hunter Douglas will be exhibiting at the groundbreaking Architect@Work at London Olympia on January 21 and 22 2015. Architect@Work provides a new format for companies to showcase their products and services. Hunter Douglas will be displaying its innovative BXD ceiling, flat folding shutters and QC200 facades. The innovations showcased by Hunter Douglas have been presented for approval to a

judging panel of architects and interior designers prior to the event. The company will have representatives on the stand with extensive technical knowledge who are able to provide visitors with the ideal solution for their specific case.

01604 766251 www.hunterdouglas.co.uk

enq.136

GEZE UK strengthens automatic sales team



GEZE UK has strengthened its automatic sales team in the north of England with the appointment of Andy Iredale who has 20 years of experience in the automatic, industrial and commercial door industry. Andy joins the company as technical sales consultant, automatic doors. He will be responsible for the sales of supply and fit automatic door prod-

ucts and projects and developing business among new and existing clients. With extensive experience in technical sales and automatic door project management, Andy has worked on a range of high profile projects including Manchester Airport, King's Cross Station and Oxford Brookes University.

01543 443000 www.geze.co.uk

enq.138



Handy Cross hub development

In Wycombe, proposals from the district council are heavily focused on retail and the authority is hoping that by taking control itself of the flagship £150 million Handy Cross development, that this will change perceptions of the Buckinghamshire town. By Steve Menary

The notion of building a new gateway to a town to change the perceptions of visitors is not new. The Thames Gateway is a major urban regeneration initiative that is transforming a swathe of land in East London and Kent, while the Mersey gateway is a new bridge across the Mersey between Runcorn and Widnes that is one of the UK's biggest engineering projects.

The £150 million Handy Cross development is situated on land adjacent the junction of the M40 and A404 roads that lead visitors into the town.

The project is being developed in four key stages. Phases one and two comprise the development of a supermarket, which will be run by Waitrose, and a leisure centre to replace an existing centre that borders the site and will be ultimately demolished to make way for part of the final two phases.

Unlike most major commercial developments, the council has taken control of developing the scheme and will retain control of the site with the buildings leased out over 25 years.

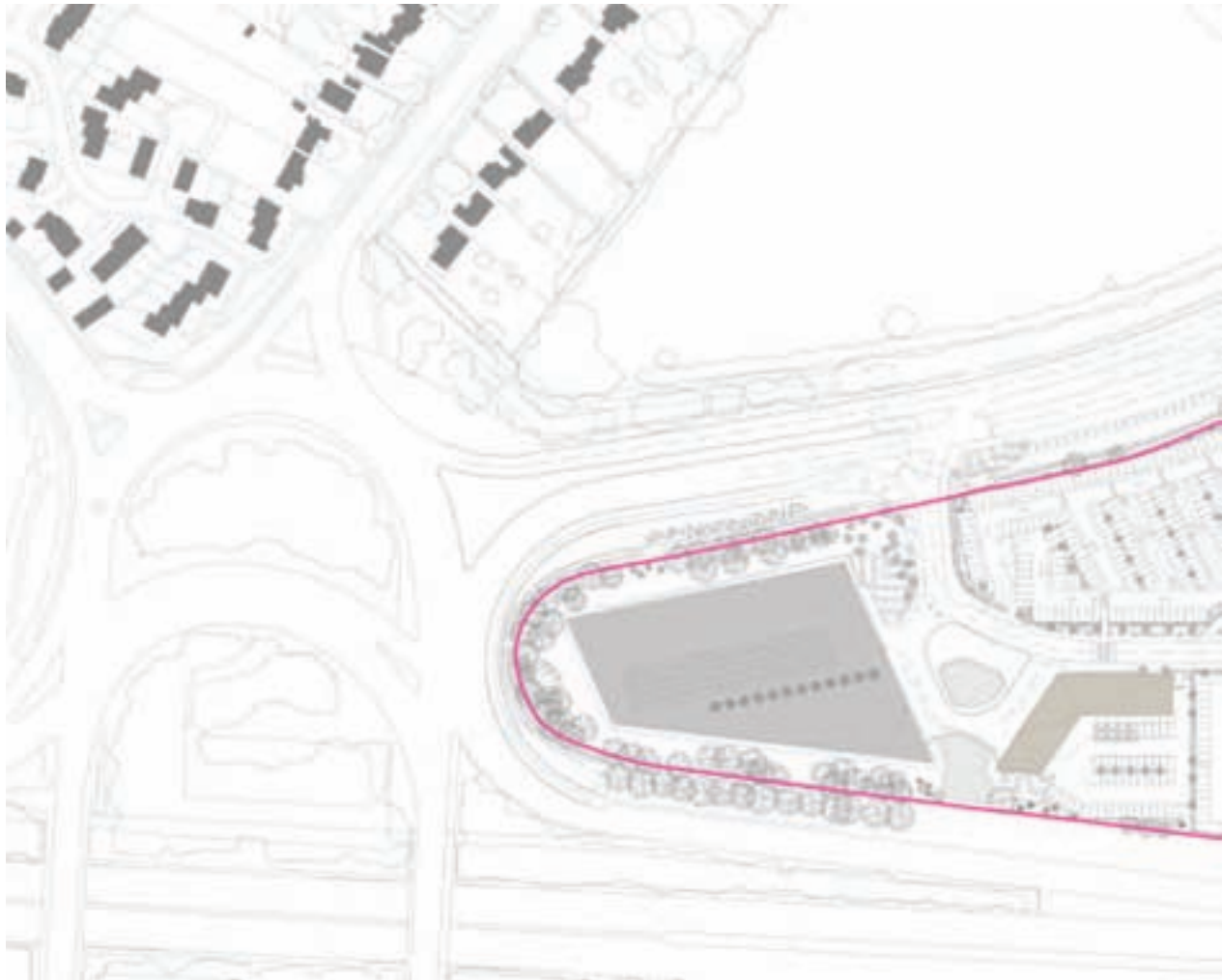
To help, the council turned to experienced developer

Continued overleaf..

**BUILDING
PROJECTS**

It's quite a compact and ambitious scheme for the area and an interesting range of uses for an edge of town scheme'

Richard Markland



Plan of the development

Charles Brocklehurst, who was recruited as the client's major projects executive and wants to create a "new, vibrant destination in High Wycombe". That ideal is evident throughout the design for the entire project as Richard Wheeler, the operations manager at Willmott Dixon, the contractor appointed by the council to build out the first two phases, can attest.

Wheeler says: "The council is keen to raise the profile of Wycombe. There has been a town centre redevelopment in recent years and this is a continuation. Charles has a vision for the Gateway to Wycombe. He wants to improve the entry to Wycombe."

Before Willmott Dixon were brought on board, the council recruited Mace as development manager to help bring the proposals through the planning system. Mace is also providing a number of other services on the scheme including project management, cost management, design services and CDM co-ordinator but Richard Markland Architects was used to

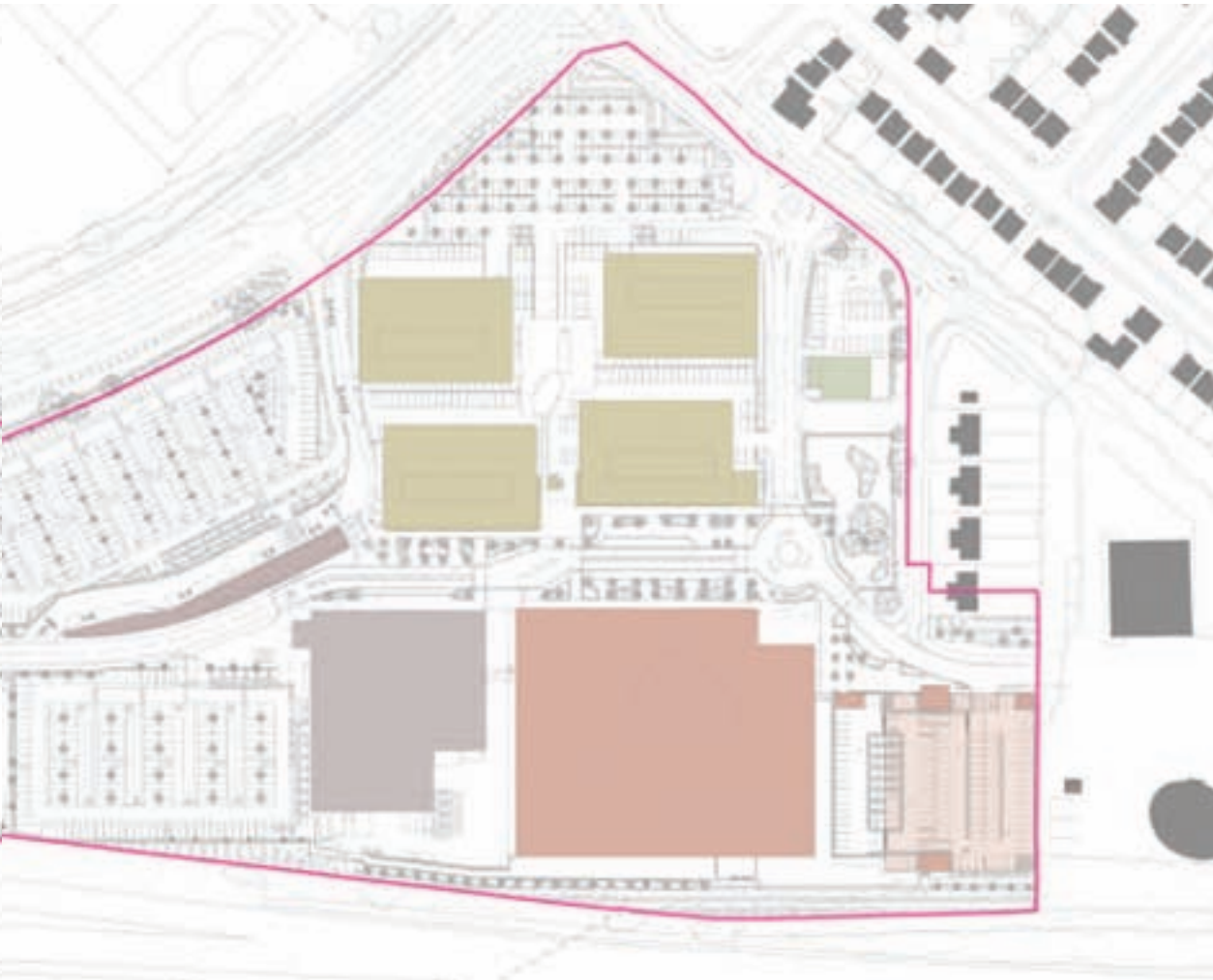
draw up the master plan. From the outset, the intention was to use the external design to make the site visible from the roads bringing visitors to the town.

"It's quite a compact and ambitious scheme for the area and an interesting range of uses for an edge of town scheme," says Richard Markland.

"With the master plan, we needed to essentially have two leisure centres in operation so that we could close on and keep the other open and have a smooth transition. The client also wanted a flexible master plan so that we could put the headquarters where the hotel is. Within that, there is a spine road through the centre which is fixed."

With 250 houses near the development and an area of outstanding natural beauty on the opposite side of the A404, the design has had to ensure that sightlines are not damaged.

Tree planting will play a major part. Around 116 trees were removed and more than that number will be planted at the site



'What the design aimed to achieve was to create an inward-facing scheme for the visitors, who would interact instead of just turning up and then leaving'

as a shield from both the nearby existing housing and also the motorway. However, that will only be a shield for visitors already inside Handy Cross Hub.

What the design aimed to achieve was to create an inward-facing scheme for the visitors, who would interact instead of just turning up and then leaving.

Markland adds: "We didn't want hermetic boxes that you can park in front of. Because it's a car-serviced facility, we wanted to foster a sense of space so we have a positive public realm and the various parts of the scheme looking out onto that. With Waitrose, there was a discussion about where the café would be and we wanted it behind a glazed facade and facing out the spine road."

The aim of the overriding design in the scheme's master plan has also been to create a development that attracts attention and can be a striking new gateway to High Wycombe.

Richard Markland Architects came up with a master plan

and Curtins is working as consulting civil engineer for the whole site. Gillespies has been retained by the council as landscape architect, but the architectural commissions for the individual buildings have been parcelled out as separate packages to different architects. Corstorphine & Wright are designing the supermarket for Waitrose and AFLS+P have the commission for the leisure centre element.

"Projects with swimming pools tend to be very specialist and Waitrose have their own stable of architects that they are happy working with," says Markland, whose practice has retained the design role for the infrastructure.

For Waitrose, the store at the Handy Cross Hub will provide an entry into the town. The other major grocery chains have stores in Wycombe. Waitrose's parent company the John Lewis group does have a non-food store in Wycombe, the nearest Waitrose store is in Marlow.

The designers on the Handy Hub store, Corstorphine &

Continued overleaf..



'The council is aiming for a BREEAM rating of very good on both the Waitrose store and the leisure centre'

Wright, have designed other Waitrose projects before, including a £20 million store at Stratford-upon-Avon. Willmott Dixon has also worked recently for Waitrose in Aylesbury.

The Waitrose store at Handy Cross Hub will comprise 2,300 sq m of trading space and internally, the scheme differs little from the standard store scheme as Richard Wheeler can confirm, but externally the project has, like the rest of the scheme, been designed to make a statement to visitors to Wycombe.

"The council did a lot of consultation and this was the design that came out of that," says Wheeler. "It's a larger model Waitrose but what makes it different to the norm is the externals."

"It's completely different to the standard Waitrose and that's to fit in with the whole ethos of the site with feature cladding and to be a striking landmark building."

The design specification includes rain screen cladding and anodised Eyeteck aluminium mesh, which have both been supplied by James & Taylor. Wheeler adds: "The

cladding behind has weather tightness and the mesh in front is purely aesthetic."

The other element of the Handy Cross scheme that is on site is the leisure centre. The old leisure centre will ultimately be demolished to make way for the new centre, which will be operated by PFP.

The leisure centre will feature a 50 m, eight lane swimming pool with a moveable floor that means scuba divers can train there. The centre will also include a climbing wall, a 20m by 8m training pool, a 12-court sports hall, two squash courts, a four-lane bowls rink and a 150-station gym.

Again, the idea of a design that can be seen from afar plays a part in the proposal drawn up by AFLS+P. The centre includes a giant media screen that was initially going to be part of the external elevation. The screen has since been moved inside, but can be seen from outside due to the large amount of glazing.

James & Taylor rain screen cladding has also been specified for the externals, along with pre-patinated aluminium

Continued on page 30...



'The aim of the over-riding design in the scheme's master-plan has also been to create a development that attracts attention and can be a striking new gateway to High Wycombe'



Aerial CGI of development (top) and High Wycombe Leisure Centre (left)

**BUILDING
PROJECTS**

'The council is aiming for a BREEAM rating of very good on both the Waitrose store and the leisure centre'

Client: Wycombe District Council

Development manager: Mace Real Estate

Master planner: Richard Markland Architects

Civil engineering consultant: Curtins

Mechanical & electrical consultant: Hoare Lea

Landscape architect: Gillespies

Architect (Waitrose): Corstorphine & Wright

Architect (leisure centre): AFLS+P

Building services consultant (supermarket): Synergy Building Services Solutions

M&E sub-contractor (leisure centre): Kershaw Mechanical Services



cladding supplied by KME. "Charles saw that at Beaconsfield Services and wanted to include it," says Wheeler.

Construction on the Waitrose store will reach a peak in March and April 2015, when up to 250 people will be working on the scheme. Practical completion must be achieved by 16 November 2015.

"Waitrose will open that day," says Wheeler. "They had requested that we hand over early but there are planning conditions that the leisure centre has to be operable and we are 100 per cent complete on-site services."

The council is aiming for a BREEAM rating of very good on both the Waitrose store and the leisure centre. Two more phases will then follow and on completion, the overall scheme

will ultimately provide 33,000 sq m of buildings across the 17 acre site.

The remaining elements remain to be confirmed, but retail will again feature. One phase will comprise four commercial buildings, which will be a mix of B1 retail usage and offices, while the final phase will feature a flagship headquarters building and, depending on ongoing negotiations, a 150-bed hotel or a building that will become part of the headquarters development. For all these elements of the Handy Cross Hub, the same aesthetic will be applied to the design of making visitors notice.

"We know will leave a lasting legacy," says Mace Real Estate Development Director Huw Griffiths.

Seven Hauraton drainage systems at Waitrose Boughton, Chester



A beautifully designed Waitrose supermarket with a sales floor of approximately 2,790 sq m has been opened at Boughton, Chester. The development has a 192-space customer car park plus smaller retail units and a pedestrian footbridge included in the scheme. The supermarket and surrounding area has achieved a BREEAM Excellent rating. With extensive paved, concreted and asphalted areas, surface water drainage was an important consideration in the general landscaping of the site.

Aesthetic demands meant the surface water drainage for the paved concourse, facades and pedestrian walkways had to be as unobtrusive as possible yet fully meet the drainage requirement. This was achieved by installing Hauraton RECYFIX® Standard slotted channels fitted with two types of stainless steel covers; symmetrical and asymmetrical. RECYFIX® Standard channels with Elegance stainless steel perforated gratings were also used along the colonnade at the rear of the building.

RECYFIX® Plus 100 channels with Heelsafe ductile iron gratings were installed at the entrance to the under-croft car park with FASERFIX® KS channels used to drain the car park itself.

Two sizes of RECYFIX® Pro channels fitted with FIBRETEC® gratings were chosen for the area around the plant room.

For the full case study go to www.drainage-projects.co.uk



01582 501 380 www.hauraton.co.uk enq.139

Fila protects surfaces at greenest service station



Two Fila floor protection systems have been chosen to protect floor surfaces at Gloucester Services, a new family-run motorway services dedicated to local food, farming and its community. Located near the Cotswolds, on the northbound M5, the £40 million development is a joint venture between

a local charity – Gloucester Gateway Trust – and Westmorland Limited. It was delivered by AFL Architects and includes local stone and timber lighting designs and an arched wildflower seeded roof. All flooring works, including the application of FILAFOB and eco-award winning Fila Cleaner were carried out by Polished Concrete Designs, for Buckingham Group Contracting Ltd.

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Waterside shortlisted for prestigious national award...
Ref: 95326

ISG secures Morrisons Weybridge Scheme...
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Encasement helps Tesco present a fresh face at Birmingham store...
Ref: 97046

Permeable car park 'avoids the gap'



With a focus on bringing permeable paving to one of its latest projects in Yorkshire, award-winning civil and structural engineering practice BSP Consulting has praised Brett Landscaping for its ingenious solution to the installation of a permeably paved car park within a new retail development. Brett Landscaping, a specialist in the manufacture and supply of permeable hard landscaping solutions, provided the necessary technical expertise to ensure that such a solution was possible. The car park, which services a new 28,000 sq ft 'eco-store', has been laid using a combination of Brett permeable Beta Flow and Omega Pencil Edge. The design fulfils the environmental advantage of reducing the impact of flooding by providing a proven Sustainable Drainage System (SuDS), while providing a reduced chamfer paving block which enables shopping trolleys to glide over the surface with minimal wheel 'chatter'. The use of Beta Flow allows surface water to pass between each block and into the purpose designed sub-base beneath. This helps to reduce the risk of on-site flooding or overflow to neighbouring urban development. However, it was the recent addition of Beta Flow to the Brett permeable paving range which has helped to reduce the potential irritation to customers and trolley operatives while manoeuvring trolleys around the car park.

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How can the 'Bolton Model' regenerate unloved urban churches?

By Matthew McKeague, head of regeneration at the Churches Conservation Trust

A decade ago, All Souls Church in Bolton stood unloved, locked and blighted with graffiti in the town's northern suburbs, under the black cloud of potentially £1.5 million in necessary repairs. No one knew quite what to do about it until local man Inayat Omarji contacted the Churches Conservation Trust, having decided it was time to do something.

Ten years later, they found themselves at the Palace Theatre in Soho with Andrew Lloyd Webber and Channel 4's George Clarke celebrating Inayat's success in saving this Grade II listed urban church, with its £4.9 million adaptive reuse scheme recognised as the 'Best Rescue of Any Other Type of Historic Building or Site' at the English Heritage Angel Awards.

The project is now complete, the result of a unique partnership between the Churches Conservation Trust, the local community and the Heritage Lottery Fund. Innovative designs by Manchester's OMI Architects have transformed the interior of the Grade II* listed church into a mixed-use community building with office space, a coffee shop, meeting and event rooms and a centre for heritage learning.



OMI Architects' Nick Berry says that respect for the original design of the church and its urban context was the inspiration for the new design, but he also tried to ensure his new interventions were not subservient to their surrounding architecture. Nick notes that "Instead of mirroring the historic fabric of the church, we have constructed two modern pod structures within

Continued overleaf...



Architects:
OMI Architects

Main contractor:
Walter Carefoot & Sons

Specialist heritage sub-contractor:
Lambert Walker

Heritage building surveyor: Alan Gardner Associates

Quantity surveyors:
Poole Dick Associates

Structural engineers:
Scott Hughes Design

M & E Services:
Hoare Lea

Mechanical & electrical sub contractor:
Proline Mech

SIP/steel superstructure:
Warrington Fabrications and SIPCO

Lighting:
Lighting Motions

Platform lift: Axxess 2

Joinery:
Medlock Joinery

Sanitary ware:
Ideal Standard

Wall and floor tiling:
Domus

Carpet tiling:
Interface Floors

Linoleum flooring:
Forbo Flooring Systems

Vinyl flooring: Altro Ltd

Render: Sto

Wall linings – plasterboard:
British Gypsum

Stone cladding:
Kinorigo

Copper cladding: Tecu

Zinc cladding: VM Zinc

Stairs and balustrades:
Warrington Fabrications

Catering kitchen:
Airedale Group

Furniture:
Ralph Capper Interiors

Internal signage:
Green Brothers

Fire glazing: Fendor

Glazed entrance doors:
Dorma

the building which contrast with the original Victorian architecture. The new interior architecture is deliberately different from what surrounds it, creating a dialogue between the two to amplify the architectural qualities of both”.

The fact that two huge pods can even fit inside the church at all shows the vast scale of the church originally designed by Lancaster architects Paley and Austin.

Nick continues: “The unusually wide 16m single span of the nave allowed us to insert the new structure in a relatively free form way. We chose to make the most of that, with a free-standing, three-story, 10.5m high structure on the south side of the nave, and a large first floor conference room on the north side, raised up on six columns with an “open air” coffee shop beneath it.”

Construction of the pods took over a year, with the delicate nature of the surrounding Victorian brickwork necessitating that all materials and machinery be brought in and out through a 2m wide west doorway. In order to make this possible, the pods were built using composite steel and prefabricated structural insulated panels (SIPs), which limited the need for heavy lifting equipment during construction.

The system of steel and SIPs was chosen because it is particularly space efficient, is easy to erect and provides structural stability and an insulated envelope for the building in one. The overall thickness of the walls is only around about 5 inches, which is less than half of the wall thickness of a typical house, meaning it could have more useable space in the completed building. It was amazing seeing it put together inside the church, after being designed and manufactured off-site, like a giant meccano kit.

As well as installing the innovative new pods inside it, repairs had to be made to conserve the historic fabric of the building. Contractors Walter Carefoot & Sons worked with the specialist conservation and restoration specialists Lambert Walker in order to undertake effective repairs and conservation work, and protect the existing structure while the new pods were added. The whole project was overseen by project managers Buro Four, who kept it to task throughout the process of conservation repair and the construction of the new pods.

An important part of the project during the construction phase was the opportunity for training and skills development, and the trust was lucky enough to partner with the National Heritage Training Group, who funded six paid training placements for local Bolton residents and a series of free technical days hosted for the general public, focusing on heritage conservation skills. Lambert Walker worked particularly closely with the National Heritage Training Group on this, and the trust was delighted that three of the young people who undertook stone masonry placements have now been offered long-term apprenticeships with the firm.

The Churches Conservation Trust is very proud of how it has managed to bring together various partners in order to save All Souls and safeguard it for the future, and it hopes the lessons they all have learned will help to create a ‘Bolton Model’ or the regeneration of unloved urban churches.



enq.143



Greenhouse in the Botanic Garden, University of Aarhus sustainable hothouse

The new tropical conservatory at the Botanical Gardens in Aarhus is like a drop of dew in its green surroundings. Sustainable design, new materials and advanced computer technology went into the creation of the hothouse's organic form, as C.F. Møller Architects explain

The snail-shaped hothouse in the Botanic Garden in Aarhus is a national icon in hothouse architecture. It was designed in 1969 by C.F. Møller Architects, and is well adapted to its surroundings. Accordingly, it was important to bear the existing architectural values in mind when designing a new hothouse to replace the former palm house which had been literally outgrown.

“The competition sought an independent and distinctive new palm house, but it was essential for us to ensure that the new building would function well in interplay with the old one,” says Tom Danielsen, architect and partner with C.F. Møller Architects.

The organic form and the large volume, in which the public can go exploring among the treetops, present botany and a

Continued overleaf...

'The project also includes a comprehensive restoration of the old hothouse, in which the palm house becomes a new botanical knowledge centre'

Architect:
C.F. Møller Architects

Landscape:
C.F. Møller Landscape

Steel load-bearing structures:
Søren Jensen A/S

Foil cushion planning:
formTL GmbH

Main contractor, concrete:
MT Hojgaard A/S

Subcontractor:
ENKON A/S

Steel contractor:
BK Teknik A/S

Carpentry contractors/ joiners:
MMT

Electrician/ contractor:
Mariendal El-Teknik A/S

CTS, security:
Schneider Electric

ETFE-Foil construction:
CenoTec Textile Constructions

ETFE-Foil manufacturer:
Nowofol
Kunststoffprodukte

ETFE-Foil contractor:
FlexCover A/S



journey through the different climate zones in a way which makes the new hothouse in Aarhus an attraction in a pan-European class in hot-house architecture.

An assortment of tropical plants, trees and flowers fills the interior of the greenhouses transparent dome set on an oval base. A pond is located at the centre of the space, while an elevated platform allows visitors to climb up above the treetops.

Parametric energy design

The design of the new hothouse is based on energy-conserving design solutions and on knowledge of materials, indoor climate and technology.

Using advanced calculations, the architects and engineers have optimised their way to the building's structure, ensuring that its form and energy consumption interact in the best possible manner and make optimal use of sunlight. The domed shape and the building's orientation in relation to the points of the compass have been chosen because this precise format gives the smallest surface area coupled with the largest volume, as well as the best possible sunlight incidence in winter, and the least possible in summer.

Using parametric software studies, the energetic performance of various shapes was tested in relation to solar influx, interior volume and other parameters set out as design drivers, starting from a simple reference model of a semi-sphere. The resulting step-by-step optimization of the design eventually led to a different, asymmetrical form, leaning slightly to the north.

This design was then further developed to optimize the

structural and cladding efficiency, using the same creative design approach supported by innovative modelling techniques based on practical engineering detailing, to result in an energy-optimised design with elegance and simplicity which sets a new standard for such structures.

ETFE dome

The transparent dome is clad with ETFE foil cushions with an interior pneumatic shading system. The support structure consists of 10 tubular steel arches, which fan out around a longitudinal and a transverse axis, creating a net of rectangles of varying sizes. On the south-facing side, the cushions used were made with three layers, two of which were printed with a fritted pattern. Through changes in pressure, the relative positions of these printed foils can be adjusted. This can reduce or increase, as desired, the translucence of the cushions, changing the light and heat input of the building.

Material economy has been key in the project, and, using the same parametric modelling techniques, an extremely efficient and lightweight geometry was developed: The load-bearing structure of slender steel arches creates a vast enclosure with a minimum of construction. The arches consist of standard rolled tubular sections, which were simply bolted together on site on a concrete base.

The design of the foil construction was carried out in close collaboration between architects and engineers, including specialized foil cushion planners, manufacturers as well as contractors. The installation of the lightweight dome became an event in itself, featuring a team of highly skilled workers acrobatically mounting the foil cushions on the steel frame in rapid sequence.

Botanical knowledge centre

The project also includes a comprehensive restoration of the old hothouse, in which the palm house becomes a new botanical knowledge centre aimed at the general public, at the same time as the complex is extended with the new tropical hothouse.

The existing glass shell has been thoroughly restored, and fitted with a new interior which includes an exhibition area, a public cafe and various teaching and research facilities for the university and visiting school classes.

enq.144





Mega protects historic museum floor

Founded in 1683, the Ashmolean Museum is the most significant museum of art and archaeology in the UK, and welcomes more than a million visitors each year. Oxford based flooring firm, ACH Flooring, regularly recoats the original oak herringbone floors in the City's Ashmolean Museum with **Bona Mega**. Cleverly formulated to use oxygen as a crosslinker, Bona Mega delivers the performance of a two component lacquer in the convenience of a one pack product and is designed to offer high wear and chemical resistance in domestic, commercial or public environments. A sustainable, NMP free lacquer, Mega provides the museum's maintenance team with a durable, easy to clean surface. Bona Cleaner and Bona Polish are used for ongoing maintenance of the floors. Bona Mega is available in four sheen levels including Extra Matt that combines a hard wearing surface with a very natural, almost 'invisible' finish to the surface.

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Maintaining history, preserving the environment



Penpont House, situated in the Brecon Beacons National Park in Wales, is a privately owned Grade 1 Listed house built in 1666. Its' current owners, Gavin and Davina Hogg, along with their two sons, opened the house and grounds to the public for the first time in the building's history, in 1996. With sustainability at the heart of its

operations green initiatives introduced at Penpont include a **Euroheat HDG Compact 200**, woodchip biomass boiler, which provides heating for the main buildings on the site and a rainwater harvesting system for the stable block, where weddings, parties and conferences are hosted.

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Dubai Tram project



The **A. Proctor Group** have supplied approximately 30,000 sq m of Profoil 861 to Arabian Profiles for phase 1 of the Dubai Tram project. Completed on 1 November 2014, the first phase is from Al Sufouh to the Marina. Profoil 861 is a heavyweight, reinforced vapour control layer with an aluminium foil core to give a high water vapour resistance. The woven extruded polypropylene

multifilament scrim reinforcement gives good resistance to tears and punctures. The aluminium foil is protected on both faces by polyethylene for corrosive situations, such as chlorine in swimming pools.

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BIM all zipped up for HydroTap

Zip, a world leader in instant boiling water systems, has set new standards in the industry by becoming the first company within its sector to launch a fully populated Building Information Models (BIM) library for its WRAS approved HydroTap G4 product. Designed to change how buildings, infrastructure and utilities are planned, designed, built, and managed, BIM files offer an intelligent model-based system to provide one master source of information to architects. This includes a building's spatial dimensions, spatial relationships, light analysis, geographic information, quantities and properties of building components (for example, manufacturers' details) and costs. Developed in-house by Zip's technical experts, the Zip BIM library comes to the market ahead of the UK government's 2016 BIM mandate for centrally procured public sector construction projects.

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New ward built in less than three months



When additional ward space was required at Princess Alexandra Hospital in Harlow, to help the trust manage increased demand over the winter period, **Portakabin Hire** constructed a fully serviced 20-bed ward facility in less than three months and handed it over ahead of programme. Portakabin

handled every aspect of the build, giving the trust a single point of contact for the entire project. Work carried out included all site works, installation of climate control systems, data communications, fire alarms, nurse call systems, bedhead trunking, medical gas services, automated doors, video entry, furnishings and a link bridge to connect the new ward to the main hospital.

enq.153

The show can go on, thanks to Wraptite-SA



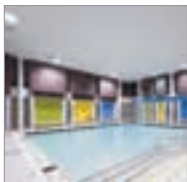
The beautiful Empire Theatre in Toowoomba, Queensland, has recently been refurbished due to building leaks caused by a failing facade system. With minimum disruption, Queensland based installer Skypanel applied Wraptite-SA vapour permeable membrane directly over the existing 1996 fibre cement cladding facade to prevent further moisture ingress. Supplied by **A. Proctor**

Group's Australian distributor, Dynamic Composite Technologies, Wraptite-SA is a self-adhesive membrane that can fully bond to multiple different substrates to provide a continuous, self-adhered, airtight and watertight finish.

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Knauf AMF ceiling installation goes swimmingly



The **Knauf AMF** Aquatec ceiling system has been installed in a new pool hall at Leytonstone Leisure Centre, London. The refurbished centre is part of an ongoing £24.5 million regeneration programme. The hall is equipped with a 25m main pool and a teaching pool. Architects AFLS+P specified the Aquatec ceiling system to meet the demanding requirements for the

public pool. The ceiling has to withstand a tough combination of extreme humidity, a range of temperatures, water, and exposure to the corrosive atmosphere caused by chlorine. AFLS+P are impressed with the ceiling and have specified Aquatec for a number of projects including three more large leisure centres.

020 8892 3216 www.amfceilings.co.uk

enq.155

SCHOTT restoration glasses



International technology group **SCHOTT** offers a wide variety of architectural glasses for use in restoring old architectural monuments. The many different glasses are manufactured using the traditional Fourcault process and made to resemble window glass from various eras. Thanks to its differentiated range of materials, the company supplies glasses that meet the requirements of monument preservationists, building owners and building users. The range includes not only machine drawn

restoration glasses, but also several high-quality architectural glasses and coated glasses such as anti-reflective AMIRAN® and MIROGARD® glass.

01785 223166 www.schott.com/uk

enq.156

State-of-the-art materials help turn award-winning design into reality



Glasgow's The Gorbals is being taken into the 21st century as part of a major, award-winning regeneration, and is using technologically-advanced materials to deliver modern performance as well as design.

At the heart of the regenerations is the creation of over 1,000 new homes at Richmond Park, a development by housebuilder Bett Homes, which includes construction of six-storey blocks each with 17 x two-bedroom apartments. To achieve a contemporary look at Richmond Park, Bett Homes has chosen to use some 450 sq m of **Protan** SE1.2mm single ply membrane on each of the blocks with 'flat' roofs. Hot-air welded at the joints and mechanically fixed in place by roofing contractor JMS, the Protan membrane is detailed with omega profiles to give the impression of a metal standing seam roof. Designed to cope with extreme weather conditions without detriment, Protan SE membrane achieves durability for at least 30 years. In addition, air leakage is controlled in line with the latest Building Regulations. Protan SE membrane is one element of Protan's comprehensive range of single ply roofing solutions, all designed to protect value for specifier and contractor.

01925 658001 www.protan.co.uk

enq.157

Banbury Station car park benefits from Berry Cladding



The exterior cladding on the new Banbury Station car park in Oxfordshire has been designed to help the building blend into its environment and was installed by car park specialists **Berry Systems**. McNaughton Architects reduced the impact on the local environment by specifying Glass Sto Panels for the exterior cladding. This means that the residential properties opposite the car park are reflected on the walls of the steel framed, four storey structure. Berry Systems formed part of the design team for this, together with McNaughton and the main contractors, Osborne. Hill Cannon designed the superstructure which was erected by James Killelea. The panels consist of toughened glass bonded to a carrier board attached to an stainless steel and aluminium rail carrier. They are manufactured off-site which aids quality control and reduces on-site installation time. As well as the Sto Panels, Berry systems also supplied and installed the capping panels, soffits, internal perforated metal infill panels, the link bridge security and access gate, rail side security mesh and, of course, the vehicle safety barriers for which Berry Systems are renowned, on all the ramps. These barriers consisted of RB1 spring steel buffers supporting a Berry Beam barrier, anti-climb mesh and integral pedestrian handrail.

01902 491100 www.berrysystems.co.uk

enq.158

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enq.162

Timber construction is on the cusp of a boom

By Dave Hopkins, director at Wood for Good, the timber industry's sustainability campaign

The merits of timber construction have been rapidly gaining appreciation in the housing sector over the last decade with the market share of timber frame rising from just over 14 per cent in 2001, to approaching a quarter of today's newbuild market.

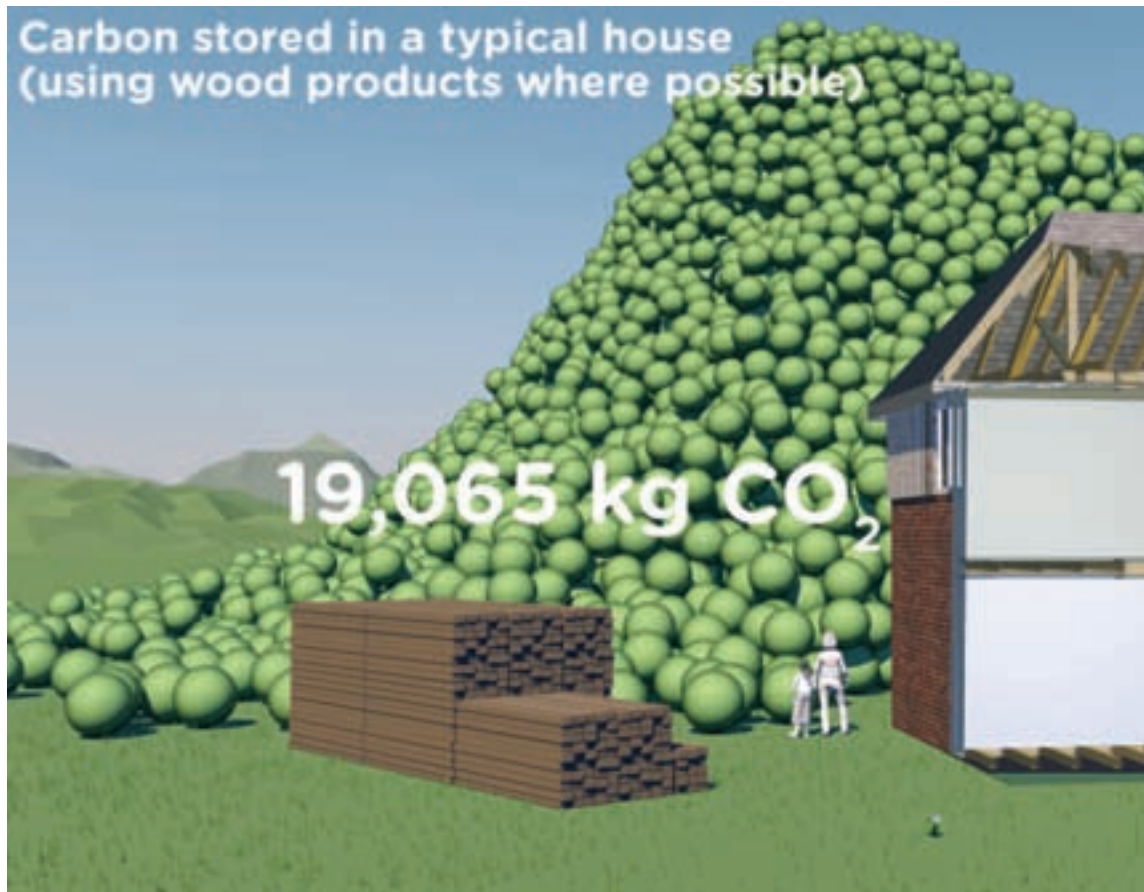
The time and cost-savings offered by off-site engineering along with the increased precision and quality of the finished product have driven much of this growth. The environmental advantages – from being a low-carbon, naturally renewable material, to its unrivalled insulation properties – have also seen timber grow market share in the green building market.

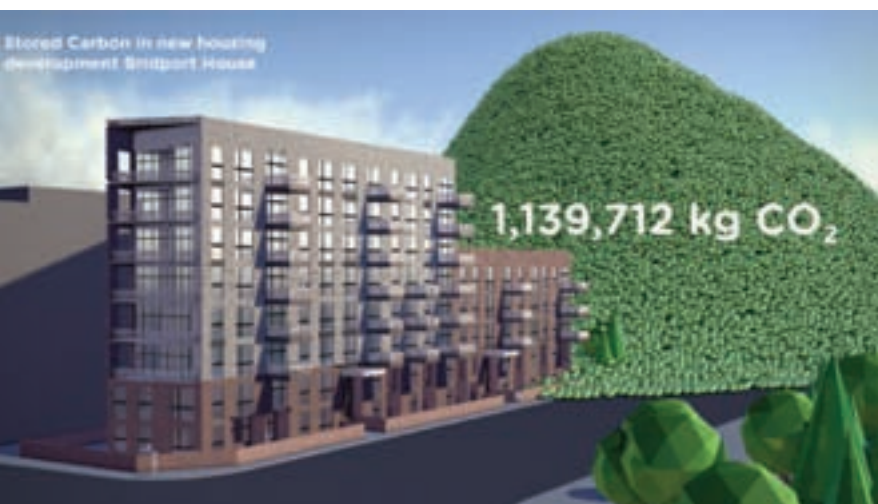
However, while many specifiers have long been convinced of the various benefits of timber, they have lacked the empirical evidence to endorse its use.

To address this, the industry has created a Lifecycle Assessment (LCA) database bringing together environmental performance information on a range of wood products commonly used in the UK in a single, convenient hub on the Wood for Good website. It includes data on every aspect of the life-cycle of timber products, from forestry, harvesting, transportation, processing and manufacturing, through to the various end of life options.

Continued overleaf...

'The industry has created a Lifecycle Assessment (LCA) database bringing together environmental performance information on a range of wood products'





Now, architects and specifiers are using the data to model forthcoming projects. It's allowing them to benchmark timber products' environmental impact in terms of things like embodied carbon or global warming potential and allowing us to shed new light on the environmental qualities of existing buildings.

One particularly compelling example of timber in action was the construction of Bridport House in Hackney. The building was one of the UK's first multi-storey buildings to be constructed using only timber and its largest cross-laminated timber (CLT) residential scheme. The CLT material was chosen, in part, due to the speed at which the building could be constructed on-site (12 weeks on-site, six less than if traditional frame construction).

The building was originally designed in concrete to replace



an older, existing concrete block. However, a combined sewer pipe was discovered running directly beneath the site. If the building had been rebuilt in concrete to today's much higher performance standards, the building would have been so heavy that major reinforcement and foundation work would have to take place to prevent the pipe from being crushed.

As a much lighter weight material, timber was chosen allowing the project to build higher on the existing foundations.

Not only that, but it has low carbon advantages too. Trees absorb carbon dioxide as they grow storing it in wood. The eight-storey Bridport House tower features 41 socially-rented affordable homes. In total they store a significant 1,100 tonnes of CO₂. Had the building been constructed using reinforced concrete, the amount of carbon emitted in its development would have been 892 tonnes – to put this into perspective, this would be the volume emitted in heating and lighting all of the homes in the building for 12 years.

With regulatory and legislative frameworks for construction becoming ever more restrictive, the assessment of environmental impacts are set to become increasingly important customer drivers, alongside cost and performance. The latest EU climate change targets (a 40 per cent reduction in emissions across the EU and up to 30 per cent energy efficiency improvements) agreed in October are also likely to usher in a renewed focus on the sustainability of the built environment.

As part of their efforts to meet these targets, the government has started to mobilise investment from a £1 billion pot set aside to fund Carbon Capture and Storage (CCS) projects. However, we have argued that the proven natural carbon capture capabilities of wood would provide for an additional use of the investment and can help tackle the UK's emissions from within the construction industry.

Using research from the LCA, it was found that one average three-bed, timber-framed house stores 19 tonnes of CO₂ in the timber products used in its construction. By scaling this up it was demonstrated that an average estate of 84 houses would store 1,602 tonnes of CO₂. If Labour's housing target of delivering 200,000 homes annually was actually met, 4 million tonnes of the greenhouse gas every year could be stored.

LCA studies show that timber products absorb and store more carbon dioxide than they emit as a result of their entire manufacturing process – including harvesting, kilning, processing and delivery – arriving on-site with a carbon negative footprint. These qualities mean timber effectively offers the construction industry the option of going from emitting carbon to building with it.

Building with timber is the safest and cheapest form of CCS available and is arguably a more effective way of contributing to new emissions targets than unproven CCS technology. It is estimated that it costs roughly £25-30 per tonne of CO₂ captured and stored using mixed woodland forestry. However, unlike other finance models, this is not 'in addition' to the process, it is already paid for as an inherent aspect of the timber.

With a wealth of data on various timber products accessible in one place, the creation of the LCA is set to usher in a new era of sustainable construction.

Alu-Tec complete Dormer Wells School



Alu-Timber and its approved fabricator Fleetwood Architectural Aluminium Ltd completed a new build school in Southall, London. Alu-Timber EFT is a 60mm aluminium/timber curtain walling system, which offers capped, two-sided structural glazing with vertical or horizontal capping and four-

sided structural glazing. Alu-Timber EFT provides internal thermally efficient Larch timber with time tested external aluminium for protection. To maximise spans and centres, a wide range of timber mullions and transoms are available. All profiles are kept in stock, which means site deadlines can always be met.

0208 685 9685 www.alutimber.co.uk

enq.164

Wallbarn solves major construction issues



A forward thinking design has tackled three construction issues in one installation. Energy production, flood alleviation and providing valuable wildlife habitat have all been encompassed by using three stand-alone roofing features, but here they have been integrated to complement each other and enhance the development. **Wallbarn**

used a new product called Aquaten Living RoofPlus, which is a highly absorptive engineered composite that locks in water and helps prevent flooding. To keep the weight down a lightweight bio-diverse substrate was blended for this project. Wallbarn also developed a seed mix that provides a wide range of plant species.

0208 916 2222 www.wallbarn.com

enq.166

Peninsula Home Improvement joins Solarlux



The **Solarlux** Aktiv Partner network is proud to welcome onboard Peninsula Windows, a home improvement company based in Gaerwen, Anglesey. Peninsula has been appointed as Solarlux's approved dealer for north Wales and will join the expanding list of partners throughout the UK. The agreement comes after Peninsula recorded a recession busting 15 per cent growth in turnover last year that came on top of five successive similar increases in turnover. Peninsula feels

reassured that Solarlux mirrors its own company ethos of specialising in high quality products at the upper end of the market.

01707 339970 www.solarlux.co.uk

enq.168

Metal Technology takes care at Clarence Park



Architectural aluminium systems company **Metal Technology** has supplied its window products to a 101 apartment retirement village in Worcester Road, Malvern. With sustainability and accessibility at the heart of this flagship scheme, Metal Technology's System 4-35 Hi+ casement window and System 5-20Dhi+ door offer the designer a wide and diverse range of profiles that provide structural integrity, weather performance, thermal enhancement and security. Part of the THERMAL™ range, System

4-35 Hi+, in conjunction with the correct glass specification, is designed to meet or exceed the latest thermal requirements of current building regulations.

028 9448 7777 www.metaltechnology.com

enq.169

Only the best for Tekne's hospitality fit-outs



Established over 40 years ago, Tekne have built a reputation as one of the UK's leading hospitality, commercial and retail space fitters. Working on projects such as Jamie's Italian, Wagamamma, Selfridges and Tramshed, Tekne only use suppliers who are able provide the service and product quality required for such high profile,

bespoke projects. For every job specification, stock availability, price and speed of delivery are carefully considered. When it comes to hardwood timber and veneers, **Timbmet** are always on the list. Manager Director Ed Sylvestre sights Timbmet's service, stock, availability and accurate pricing as some of the reasons.

01865 860303 www.timbmet.com

enq.165

Smooth anti-slip decking for riverside housing



John Brash CitiDeck® was selected as a suitable hard landscaping material for Crest Nicholson's development of new homes in Portishead, Bristol. The new decking solution had to be delivered for the large, open areas of decking, terraces and balconies off the apartments; within programmed times,

be easy to clean and maintain, provide a high level of slip resistance and be aesthetically pleasing. For cleaning and maintenance reasons, JB CitiDeck® with the resin anti-slip infill would provide the required slip resistance but with smooth boards, which are easier to clean and less likely to collect dirt and debris.

01427 613858 www.johnbrash.co.uk

enq.167



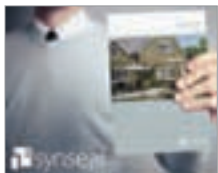
Community development wows architects

A redevelopment of a difficult urban brownfield site in South East London has been unanimously voted as the Architect's Choice Award at the annual Brick Awards, which took place on 12 November at the Marriott Grosvenor Square Hotel in London. Designed by husband and wife team Robert and Jessica Barker, Rockbourne Mews is a small development of three properties constructed by brickwork contractor Phase Brickworks, using masonry cavity walls. Wienerberger's Marziale light coloured stock brick was chosen to complement the surrounding London stock buildings and to create a light and airy feel. Featuring a number of sustainable measures, which really impressed the judges, the designs incorporate a high proportion of glazing to solid, providing privacy in places yet openness in others, encouraging a real sense of community. The pale hues of the Marziale stock brick together with the glazing reflect light into the communal courtyard even during winter months. Numerous brick specials were used to suit the site angles. You can see pictures and find full details of the project teams on the BDA's website.

020 7323 7030 www.brick.org.uk/brick-awards

enq.170

Orangery collection in technical brochure



Synseal has published a new technical brochure which summarises all available product designs in the company's extensive Orangery Collection. Crammed with isometric cut-throughs and dimensioned section drawings to deliver hard facts detailing the different orangery solutions with no sales waffle, this Orangery Collection technical

brochure was designed to support Synseal's programme of orangery installation workshops for fabricator partners and Synseal Registered Installers (SRIs) in Autumn 2014. Recognising strong levels of interest in orangery extensions from UK consumers, an extra date has been added to meet demand for the workshops.

01623 443200 www.synseal.com

enq.171

Kirk ThermalWall Insulated Facade



215 WALL BLOCK

Kirk ThermalWall is a revolutionary insulation backed walling system (UK patent application no:1406463.8), suitable for installation onto a wide variety of building facade types, including both new build and retro-fit applications. Kirk ThermalWall is designed to significantly increase building energy performance and, if used with natural stone facing panels, will also substantially

improve building appearance and lifespan. It is lightweight, easy to install and available in a wide range of material types, colours and textures, for residential, office, industrial, education, healthcare, leisure, public sector and tourism building projects. For more information please email martin@kirknaturalstone.com.

01888 511399 www.kirknaturalstone.com

enq.172

Community copper



A new community centre, providing support to young people, is characterised by a dramatic rain-screen clad in Nordic Brown Light copper from **Aurubis Architectural**. Located close to the historic town centre of Denbigh, Hwb Dinbych is an innovative, multi-purpose facility for young people, incorporating supported housing. The design by John McCall Architects aims to provide openness, visibility and accessibility from the street, as well as 'ownership' by the young. It is conceived as two main masses: the copper-clad volume of the Youth Enterprise Centre/College and the concrete-faced volume of the supported housing block. The Nordic Brown copper rain-screen peels away from the street elevation and extends past the entrance atrium glazing to provide solar shading and to frame views of the nearby castle. Particular care was taken with the rhythm of the copper standing seams to avoid formality and repetition, and give the main street elevation a natural feel.

The building has been rated BREEAM 'Excellent' for energy use and 'Very Good' overall. Copper and other materials were selected for recyclability and reduced environmental impact.

01875 812 144 www.aurubis.com/finland/architectural

enq.173

Metal Technology enhances a Grand Design



Metal Technology's recyclable architectural aluminium products featured in architect Patrick Bradley's specification for his new home. Showcased on Channel 4's programme *Grand Designs*, the unique building comprises four shipping containers, welded together in the shape of a cross and cantilevered over a stream. Metal Technology supplied System

4-35Hi High Performance Thermally Enhanced Casement Windows and System 25 Hi+ Lift and Slide Thermal Doors. System 25 doors with the correct glass specification aid compliance of current building regulations.

028 9448 7777 www.metaltechnology.com

enq.174

Kawneer systems help a hat-trick of high rises



© ROCKPANEL facade cladding

Elements of the whole range of glazing systems by leading architectural aluminium systems supplier **Kawneer** have been used on three tower blocks at the heart of the refurbishment of a London borough. Kawneer's AA*100 mullion-drained curtain

walling and AA*541 casement windows feature as vertical ribbons of glazing down the sides of the 24-storey blocks. The glazing systems were installed by approved specialist sub-contractor APiC UK for main contractor Breyer Group. The opening vents were designed as bottom-hung on electric actuators to complement a natural ventilation strategy.

01928 502500 www.kawneer.co.uk

enq.175



IKO named supplier of the year

Roofing and Waterproofing manufacturer, **IKO PLC** is extremely pleased to have been crowned 'Supplier of the Year' at the Builders Merchants' News Awards for Excellence 2014, which was announced on Friday 21 November at an Oscar style award lunch in London. The judges were looking for the supplier that has done the most to help and support their merchant customers. They chose IKO PLC because of its innovation and involvement in the industry. IKO's many years of experience and history of trusted brand names has provided it with an excellent understanding of the needs of merchants, from product selection and training to point of sale and branch information. IKO's strong links with both independent and national Builders' Merchants means that it can support these businesses through individually tailored solutions. The Builders Merchants Awards for Excellence are judged by a panel of independent industry experts with years of experience in the merchant and construction sector, to ensure the results are unbiased.

01257 488011 www.ikogroup.co.uk

enq.176

New colour options for evolve bi-fold doors



Synseal's fabricated range of Evolve Bi-fold doors has been enhanced with the addition of new anodised aluminium tracks and Artisan woodgrain foil colour finishes. Previously available in a choice of solid White PVC-U and Golden Oak and Cherrywood woodgrain foil colours, the Evolve Bi-fold range now boasts new Woodgrain White, Woodgrain Brilliant White, Cream, Irish Oak, Chartwell Green and Grey

foil finishes selected from Synseal's Artisan woodgrain collection. These additional Artisan colours are available for use in conjunction with newly-introduced aluminium tracks in anodised Silver or Gold finish.

01623 443200 www.synseal.com

enq.177

SG System Products helps improve safety



Stargard, the original 'warm to the touch' DDA compliant handrail from SG System Products, has been used to replace existing handrails at stations along the route of London's Docklands Light Railway (DLR). The 4mm (4,000 microns) thick PVC sleeve was manufactured in a special melon yellow colour

requested by DLR and this colour is consistent throughout the material. The handrail is also designed and manufactured to resist knocks and bumps. It is fitted using stainless steel brackets to keep ongoing maintenance to a minimum. SG System Products is a specialist in the design, manufacture and installation of handrail and balustrade systems tailored to suit specific applications.

01473 240055 www.handrailsuk.co.uk

enq.179

MODO is the business



Apeer's MODO collection, distinguished by its now much copied stainless steel glazing trims, offers a number of benefits that set it apart from cheaper alternatives. Its 2mm flush trims, featured on both sides, are structurally bonded and screwfixed into the door rather than simply glued to the external skin, forming part of the glazing cassette and creating a much stronger bond. The range is also made to the same high spec as all Apeer 70 doors with formidable levels of security, an

Energy A rating and Kitemarked cylinders. MODO also comes with Apeer's usual 10-year structural guarantee and a choice of colours.

028 2563 2200 www.appeer.co.uk

enq.181

Introducing the new Twinbolt locking system



P C Henderson, a leading international manufacturer of door hardware systems, is pleased to introduce the innovative new Twinbolt system to its customers. This now enables the door to be locked internally at the top and bottom of the door by turning one handle 90 degrees, removing the need to manually engage two flush bolts. The new concealed locking system can be specified alongside Securefold accommodating a timber door weight of 100kg for exterior applications. A sleek handle provides a modern and stylish finish. Routing detail cover strips can also be specified in three colour options of black, white and brown.

0191 377 0701 www.pchenderson.com

enq.183

Plymouth roof garden is 'highly commended'



The Morley Court Roof Garden project in Plymouth, has been 'highly commended' in the Best Community Project category by judges of this year's Abercrombie Awards. IKO PLC was responsible for the design and installation of the new waterproofing system for the roof garden, after the existing one failed. Following a roof survey by IKO's

technical team, the recommended waterproofing solution included an IKO Systems Vapour Barrier and IKO Enertherm Alu Insulation to bring the roof up to the required standard of energy efficiency.

01257 488011 www.ikogroup.co.uk

enq.178

New brochure showcases Metalline's range



One of the UK's leading fabricators of architectural metalwork, Metalline, has unveiled a new full colour brochure showcasing its innovative and bespoke solutions. The company has built a reputation for outstanding quality and service and the brochure highlights the growing portfolio of flagship projects now featuring Metalline's architectural solutions. The range of products featured includes Feature Beam, a highly adaptable metal pressing which will enhance the appearance of any

building facade. The new brochure also features technical information on Metalline's anodised products, rainscreen and insulated panels, fascia and soffits.

01543 456 930 www.metalline.co.uk

enq.180

Aluprof corners the sliding door market



Glazed sliding doors have always been popular in residential and high rise residential properties as they take up little room and are cost effective to manufacture and install. Today's lift and slide doors offer high thermal performance and excellent weathering capabilities complete with a low threshold detail. Aluprof now 'corners' the market with its aluminium lift and slide door, the MB-77HS, which now offers the option of a 90° installation configuration. The new 90° lift and slide

door is a cost effective option to a 90° sliding folding door with arguably a longer, trouble-free life expectancy. All Aluprof systems are designed, fabricated and installed by selected, specially trained companies across the UK.

0161 941 4005 www.aluprof.eu/en/

enq.182

New window and door systems from Smart



Commercial systems specialist Smart Architectural Aluminium has launched a number of new products this year. The innovative Alitherm 700 range has been enhanced by the parallel opening and top-swing reversible windows, offering an ideal solution for increasing levels of natural ventilation and delivering a balanced and effective airflow without compromising security or safety. The Alitherm Heritage range will soon feature a pivot window option, specifically designed

to fit into very traditional openings such as stone mullions. The launch of a tilt-turn system to complement the existing options in the Eco Futural range of high performance commercial windows completes the new window introductions.

01934 876 100 www.smartsystems.co.uk

enq.184



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 CERTIFIED COMPONENT

enq.185

Comar specified for Tanners Wharf



Comar Architectural Aluminium Systems; with its approved fabricator PAGE Group Peterborough Ltd completed a prestigious new build waterside residential development, Q Apartments, at Tanners Wharf, Bishop Stortford. Comar 5P.i open-out and tilt & turn windows, with Comar 7P.i rebated doors were selected for the apart-

ments with Comar 7P.i AFT commercial doors for the main entrances. For safety, the Comar 7P.i AFT commercial doors were fitted with anti-finger trap stiles which were hung directly from the Comar 6 curtain walling.

0208 685 9685 www.comar-alu.co.uk

enq.186

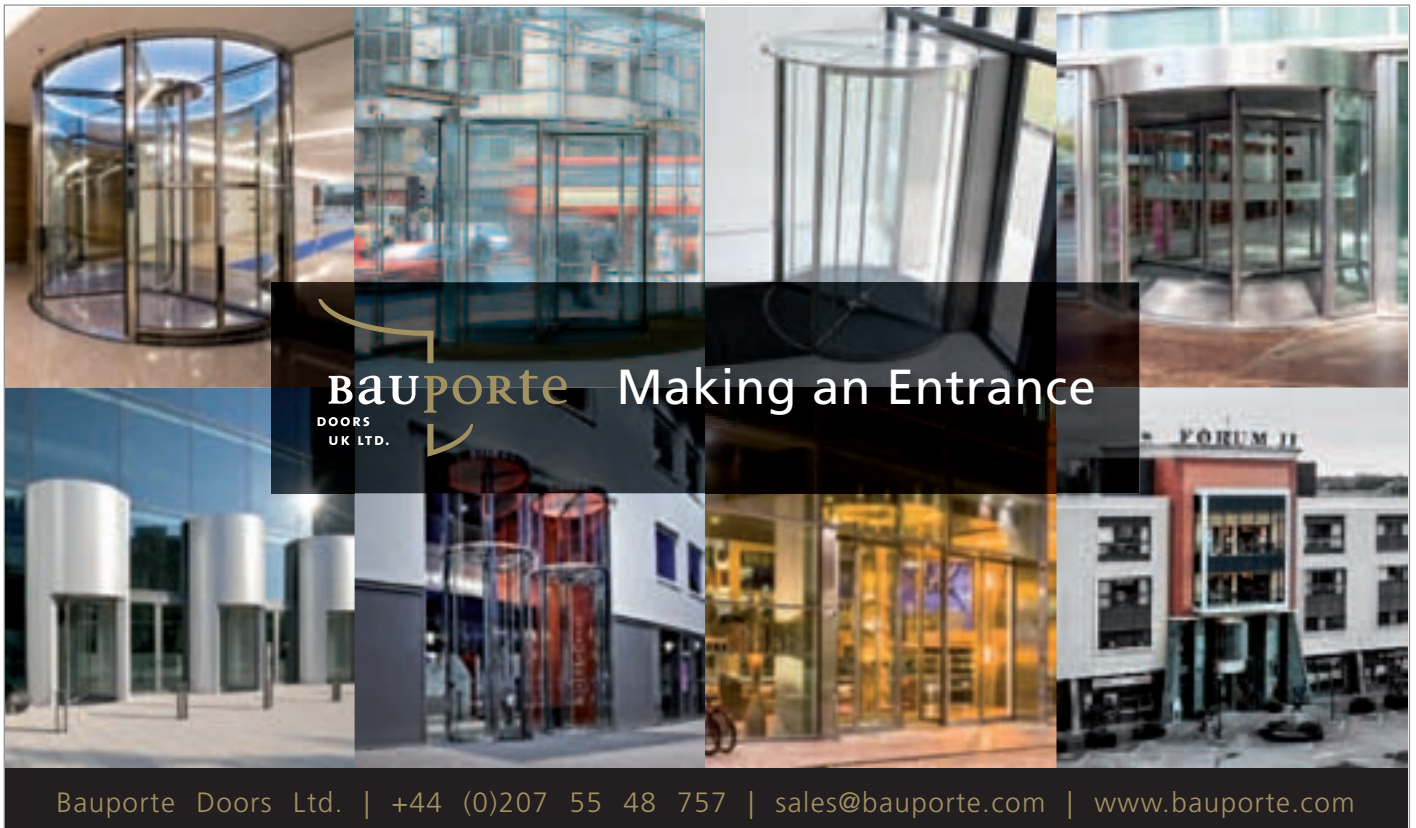
Synseal acquires LB Plastics & Manse Masterdor



Synseal has acquired the trade and operating assets of the Litchfield Group's UK window & trade extrusion and door businesses, trading as LB Plastics Ltd and Manse Masterdor Ltd, for an undisclosed sum. Based at Nether Heage, Derbyshire, LB Plastics pioneered the use of PVC-U windows for the British market back in the 1970s and the company has been synonymous with high performance thermoplastics for the UK building industry ever since. Operating production facilities registered to ISO.14001, LB Plastics predominantly supplies lead-free extruded PVC-U products to approved fabricators and installers, along with custom-designed extrusions to other building component suppliers.

01623 443200 www.synseal.com

enq.187



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enq.188

The best panoramic views just got better from Reynaers at Home

A leading provider of aluminium architectural glazing systems, Reynaers at Home has introduced new variants of its Hi-Finity sliding patio doors in response to increased demand for the innovative product.

With a minimised visible frame of just 35mm for a maximised panoramic view, the Reynaers at Home Hi-Finity slim frame doors offer the ultimate in contemporary design and cutting-edge performance.

Elegant Hi-Finity aluminium doors are now available with double and triple glazing and ensure optimum performance, safety and comfort. What's more, the Hi-Finity sliding system with triple glazing has achieved the Minergie® sustainability label – a quality indicator for high insulation systems. The Minergie® component label for windows and doors requires a U_w value (installed) of $\leq 1.0 \text{ W/m}^2\text{K}$. The Minergie-P® label corresponds



to the internationally-known Passivhaus standard and requires a U_w value of $\leq 0.8 \text{ W/m}^2\text{K}$.

Head of Reynaers at Home Hugh Moss said: "The use of structural glazing technology allows Hi-Finity doors to push the boundaries in terms of size and these doors can achieve an industry-leading height of 3.5 metres. It is now also possible

to combine two Hi-Finity doors on adjoining walls using one of a new range of innovative corner solutions."

All Hi-Finity doors incorporate a state-of-the-art electronic locking system concealed in the outer frame and operate via a wall-mounted button or a remote control. Combined with a burglar-resistant design, it makes the sliding patio doors some of the most secure on the market.

To support the use in luxury high-rise apartments, Reynaers at Home has also developed a project specific bespoke solution by integrating a glass balustrade. Where there are two vents, the glass plate is fixed to the external side of the outer frame, offering the advantage of safety while all vents are open. In the case of a fixed and an opening vent, the balustrade is integrated behind the opening vent, offering full safety.

0121 421 9707 www.reynaersathome.co.uk

enq.189



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enq.193



Thermal performance – it's still a hot topic!

Colin Torley, sales and marketing director of the VEKA UK Group discusses which 'deciding factors' play the most important roles in product design, and how specifiers need to choose their suppliers carefully in such an ever-changing industry



When it comes to designing innovative, new window and door systems, there's a lot to take into account. Any supplier worth its salt needs to be able to offer a range of products wide enough to cover energy efficiency requirements, noise reduction, sustainability, security, style and more.

The issue is that the goalposts continue to change, and systems suppliers and fabricators must be extremely agile and proactive to stay ahead of the game.

When it comes to energy efficiency, the fenestration industry

and its systems are continuously evolving. It may seem, of late, that energy efficiency is mentioned less in the press. This is not because it has become unimportant – it is because it has become expected. It has entered our everyday dialogue. Consumers have become used to seeing the familiar 'traffic light' diagrams on white goods and property particulars, and naturally this translated well when WERs and DSERs were introduced as a route to compliance for building regulations.

Rather than becoming less important, window energy ratings (WER) have become a crucial consideration. And yet, as of

Continued overleaf...

'In such a competitive and somewhat over-saturated marketplace, the client should be able to demand the highest levels of service and performance from their supplier'



1 September 2014, changes in BFRC rules brought about by updated European standards meant that all existing energy rating calculations covering thermally improved spacer bars immediately became invalid. This affects all sorts of things down the chain, including CE marking.

Making false declarations about U-values (i.e. using out of date WER calculators) can even lead to prosecution for fraud, yet it is still estimated that less than 40 per cent of the industry

is fully covered by every aspect of CE marking.

Architects and specifiers need to be sure that the suppliers they choose, and the products provided, can tick all the boxes in order to stay on the right side of the law.

We have become relatively comfortable discussing thermal and energy performance in this way, but can your supplier also provide documentary evidence about noise reduction performance?

It is felt that architects and specifiers should be encouraged to consider that they can now request acoustic information about whole frame performance.

As a guide, you could expect a typical WER 'A' rated double glazed window to reduce sound by between 26-35dB. This would be rated 'E' or 'F' through the BM TRADA Q-Mark Noise Reduction Rating Scheme.

For projects near high traffic areas or under flight paths, you might choose to specify a window system with an 'A' rating. These windows have been tested to reduce sound by 50dB or more.

Once you have also factored cost, security and style considerations into the specification process – these parameters form a demanding standard for your suppliers to live up to... and that is fantastic!

In such a competitive and somewhat over-saturated marketplace, the client should be able to demand the highest levels of service and performance from their supplier – with each project becoming more impressive than the last.



New build project expands with AluK systems



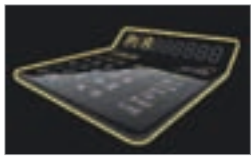
Whether building an extension, renovating an existing home or embarking on a new build, the installation of windows and doors plays a crucial role, not only from the design point of view, but also in terms of safety and performance. At Mountclaire Court in Northampton, CWG Choices Ltd took full

advantage of AluK's aluminium window and door systems to meet the homeowners' requirements for aesthetic and practical appeal. Providing wide expanses of glazing, AluK's BSF70 bi-fold door system makes use of the property's large floating corner to create an open plan area that can be integrated with the garden.

01633 810440 www.aluk.co.uk

enq.195

PIRfect new online U-value calculations



Recticel Insulation has launched a new online U-value calculator. An instant tool designed to assist architects and specifiers when calculating the required insulation thickness, thermal performance and product solution, it is available on the Recticel website. It's simple and easy to use.

Commercial Director Kevin Bohea said: "Users will be able to calculate a building's performance values, such as its thermal efficiency, to help meet building regulations [...] It is a time saver for industry professionals wanting to create projects that are fit for purpose and comply with regulatory frameworks." The U-value calculator is the latest addition to Recticel's PIRfect online support offering.

01782 590 407 www.recticelinsulation.co.uk

enq.197

The perfect recipe for restaurant doors



A staff restaurant run by catering company Gather & Gather in Leeds needed to solve the problem of damaged doors connecting the back of house kitchen area with the front of house dining area. The facilities management company in charge of the business centre buildings sourced a solution, to preventing the continual damage that the

expensive fire doors were experiencing, from a range of fire rated door protection products from Yeoman Shield. Yeoman Shield's directly employed fixing team installed 2.0mm thick door protection panels with a FalmouthEx finish to both sides of the double swing kitchen doors in a buff colour.

0113 279 5854 www.yeomanshield.com

enq.196

Noises off at the Everyman Theatre, Liverpool



The £28 million redevelopment of Liverpool's Everyman Theatre presented something of a challenge to acousticians Gillieron Scott, blending noisy spaces like the theatre's famous wraparound auditorium with such noise-sensitive features as a recording suite. The decision was made to specify

900 sq m of CMS Danskin's Regupol 6010BA acoustic under-screed isolation material, with its potential to provide 42dB of impact sound insulation and 62dB of airborne sound insulation. Just as importantly, with a maximum load bearing capacity of 50kN/m² (5,000kg/m²), Regupol 6010BA is more than capable of coping with the theatre's 100,000 plus footfall each year.

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Making better use of space



The AET Flexible Space system is a duct-free approach to air conditioning which can offer a number of savings throughout the construction process. Users of such systems have reported total construction cost savings by up to 7 per cent, reduced energy consumption by up to 30 per cent,

and the ability to reduce building height or maximise the available lettable space by reducing or completely eliminating the ceiling void and adding more floors within the same height of construction. The whole plenum under the building's raised access floor becomes the 'duct', with each floor of the building divided into zones depending on the potential use and occupancy density of the area.

01342 310400 www.flexiblespace.com

enq.242

Our man in Prague...



Pentair Thermal Building Solutions has recently completed a turnkey frost protection project for the British Embassy in Prague. The Embassy needed particular care to protect its roof gutters from freezing for both safety reasons as well as preventing damage to the building's fabric, which would be extremely difficult to replace. Pentair worked very quickly to create a proposal that would fit the technical requirement as well as the challenging site conditions.

The installation utilised Raychem FroStop trace heating cables, specifically designed for snow melting and de-icing applications, together with an EMDR-10 controller and SBS power distribution panels.

enq.200

The world's first high definition stove is launched



Charlton & Jenrick Ltd has now added a complete new range of high specification multi fuel stoves to its stove portfolio. Known as the Purevision™ HD range, it comprises six models, three freestanding and three inset with stand and log store options available for the freestanding versions and three or four sided trims for the insets. The models are sized as 5kW standard, 5kW wide and 8.5kW nominal output and contain technologically advanced patent pending design features.

Emissions meet EU leading DIN+ levels and already achieve current emission and efficiency proposals for 2022 European Eco-Design standards, which are far tougher than current mandatory norms. DEFRA exemption for wood-burning in a smokeless zone was a formality, with test results up to 97 per cent below permitted levels of visible smoke. These highly efficient stoves produce a clean burning high definition flame that has to be seen to be believed.

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World renowned hotel gets the Schlüter-Systems treatment

One of London's most exclusive and luxurious hotels has used Schlüter-Systems products as part of its grand refurbishment. The Lanesborough Hotel in Hyde Park Corner is in the process of extensive renovations, which are being carried out by the late world renowned interior designer Alberto Pinto.

The new designs will enhance all 93 guest bedrooms and bathrooms as well as all public areas and will honour the building's architectural heritage as one of London's most revered Regency landmarks.

Underflooring solutions expert Schlüter has played its part in the major refurb by providing a host of products to the project including unique tile substrate Schlüter-KERDI-BOARD.

The lightweight but extremely strong product offers the perfect solution for creating bonded waterproofing assemblies for tile coverings and can also be used as a structural panel. KERDI-BOARD is 100 per cent waterproof, cement free, lightweight and completely even and flat, making it the ideal



substrate for tiling.

As well as being waterproof, temperature resistant and vapour retardant, the product is also thermally insulating, quick and easy to install and contains no cement or fibreglass making it eco-friendly, while its fleece webbing allows for easy anchoring in thin-bed mortar.

The new, improved Lanesborough guest rooms also boast a second-to-none underfloor heating

system, provided by Schlüter-DITRA-HEAT-E.

This stand-out product leaves other conventional systems out in the cold as the perfect all-in-one integrated solution for use under tiles and natural stone flooring and is unlike anything else available due to its loose heating cables, which are fixed down to the uncoupling mat free of tape as a result of its unique studded design. Offering optimum freedom for creating concentrated heating zones, as well as providing uniform spacing without the need for measuring and marking, the new system promises to cut installation time by up to 70 per cent.

Carl Stokes, head of marketing at Schlüter-Systems, commented: "Making installation of underfloor heating simpler and easier than ever before, Schlüter-DITRA-HEAT-E really does tick all the boxes whilst Schlüter-KERDI-BOARD makes it quick and easy to create the flattest and most even substrate to tile."

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enq.206

Underfloor air conditioning



Specifying heating and cooling services for commercial workspaces can be challenging. Making use of the plenum beneath a raised access floor as the ventilation duct can introduce a number of ways to benefit by providing fully flexible, modular building services that can be adapted to requirements. The AET Flexible Space system is

a duct-free approach to air conditioning which can offer a number of savings. Such systems have reported total construction cost savings of up to 7 per cent, reduced energy consumption of up to 30 per cent, and the ability to reduce building height or maximise the available lettable space.

01342 310400 www.flexiblespace.com

enq.207

Videos describe real benefits to real people



Mitsubishi Electric has just released three new testimonial videos to highlight the benefits of Ecodan renewable heating in real world situations. The videos feature the views and experience of a social housing tenant from Prices Risborough, Buckinghamshire; a heat pump installer; and the

project manager from Red Kite Community Housing in High Wycombe. The videos join several other testimonials currently available on the company's website, with Mitsubishi Electric building up examples from Ecodan users around the country. For more information visit the Ecodan website and click on the literature and videos link in the left hand bar.

01707 282880 www.ecodan.co.uk

enq.208

Nano technology provides point-of-use safety



DELABIE is launching its new TMV3 approved point-of-use thermostatic mixer the Premix NANO. Its compact design can supply mixed water for one or two basin taps or one shower. The new HSG 274 part 2 guidelines recommend installing type 3 thermostatic mixing valves for high risk users i.e. very young, very elderly, infirm, mentally disabled and physically disabled. Due to its compact size the Premix NANO fits discreetly under a basin or close to the shower outlet. Thermal shocks are also possible, allowing hot water up to 85°C to pass through both hot and cold water channels. The Premix NANO is extremely precise. Pre-set at 38°C, the mixed water can be adjusted from 34 - 60°C. Temperature, pressure and flow rate are regulated, delivering safe mixed water in any installation. Moreover, its automatic failsafe ensures instant shut-off if the hot or cold water supply fails. Certified by Buildcert and WRAS, the Premix NANO is approved to NHS Estate D08 specifications. As facilities managers look to reduce water and energy consumption, flow regulators are becoming more prevalent. The Premix Nano has a minimum required flow rate of 3 lpm and is capable of supplying a stand-alone outlet in BREEAM approved installations.

01491 824 449 www.douglasdelabie.co.uk

enq.209



Feel the difference with Dekordor Oak 3D

Introduced barely 12 months ago, Vicaima's highly tactile Dekordor 3D range of embossed face finished doors has really made a big impression with specifiers. Now the existing range of four colours has been extended to include a popular Oak 3D design, providing even more choice for interiors. Dekordor 3D quite literally stands out as something different in the world of interior door finishes. Its innovative and striking horizontal embossed and eco-friendly surface begs to be touched yet provides excellent abrasion and moisture resistance and is easy to clean. Used widely in apartments, hotels and commercial applications, Dekordor 3D presents a durable yet highly attractive design with real uniformity of colour and texture. The 3D range can be supplied edge banded with the same embossed finish, making it a focal element when supplied within a matching 3D Portoro door and frame system.

01793 532333 www.vicaima.com

enq.210



NEACO meet college specification demands

NEACO's expertise in the education sector was put to good use for a demanding specification at Hymers College in Kingston-upon-Hull, where the company's Spectrum balustrade was extensively installed within a new state-of-the-art music facility. Built by Hobson & Porter, the £1.6 million scheme includes practice rooms, teaching space and a recital hall sized to accommodate a full orchestra. The stainless steel and powder coated aluminium versions of Spectrum were chosen with glass panel infills to two stairwells. A spokesman for Hobson & Porter said: "NEACO's design, product and manufacturing service are superb. Projects like this are subject to tight build schedules to minimise disruption to the college's activities, so we needed a fast manufacturing turnaround and installation which NEACO provided in time for the start of a new academic year. NEACO provided comprehensive technical support with site survey, design and installation."

enq.211

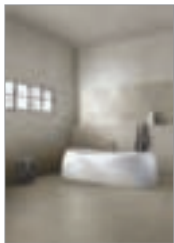
Pegler Yorkshire launches new range of TMVs



Pegler Yorkshire has once again responded to changing market needs to deliver a new Pegler thermostatic mixing valve range that greatly simplifies the valve selection process while at the same time enhancing product performance. Traditionally, Pegler Yorkshire has manufactured anti-scald valves with enhanced performance for the healthcare market (Type 3) and a separate valve for general and domestic applications (Type 2). The new more compact Pegler PEG402 series of valves meet the requirements of BS and EN standards, are WRAS approved and boast the BuildCert certificate for both TMV3 and TMV2 schemes. The new range complies with BSEN1111, BSEN1287 and BS7942.

enq.212

Capturing the beauty of plaster



With rustic, contemporary surface finishes the new vogue, **Solus Ceramics** is delighted to introduce the new plaster range, which offers a unique aesthetic on the urban trend. Inspired by the look and feel of hand-smoothed plaster, this range displays a variety of authentic looking features such as broad sweeps of texture and light shadowing. The plaster is made up of seven natural inspired colours, from chalky greys to hearty beiges, which can be used independently or effortlessly mixed together. Seven sizes allow exciting versatility, and an anti-slip finish offers the user the increased flexibility to use this range in an area that requires additional safety.

0121 753 0777 www.solusceramics.com

enq.214

Reginox launches Admiral 40



Sinks, taps and accessories manufacturer **Reginox** has launched the Admiral 40, a stylish stainless steel sink that is ideal for installation where space is tight. Featuring modern styling combined with a number of accessories, the sink has a standard size bowl and a half drainer and measures 615 x 490mm in total, with a bowl depth of 180mm. Manufactured

in 18/10 stainless steel, it is the perfect compact sink for the smaller kitchen or new build apartment where style and quality are high required. It is also equally suitable for use in utility rooms.

01260 280033 www.reginox.co.uk

enq.213

Faber Blinds achieves outstanding results



Faber Blinds makes up part of the Hunter Douglas Architectural Projects division in the UK and with more than a century of experience and product innovation the company is rightly recognised as a global market leader in window coverings. All Faber's products are manufactured BS13120 compliant and produce safe

solutions for people to use of all ages. Faber Blinds fully supports the BBSA Make It Safe campaign, which is endorsed by the Child Accident Prevention Trust (CAPT). The company is passing on this wealth of industry-leading expertise in a RIBA-approved CPD tackling the issue of sun control in sustainable buildings.

01604 766251 www.faberblinds.co.uk

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Frontrunner Plus goes to school



As part of a refurbishment project, Frontrunner Plus entrance matting was installed in several entrances at the University of Copenhagen (UCPH), in Denmark. Supplied by distributor Top Matting, this entrance flooring system was chosen for its ease of maintenance, quick installation time and ex-stock

availability. Manufactured from flexible PVC in the UK and USA by **Plastic Extruders Ltd (Plastex)**, the product features an open grid which scrapes dirt off shoes and allows it to fall through, while the absorbent inserts capture moisture, keeping internal floors clean and dry.

enq.216

Draks doors for Dorchester Living



Keen to use a local supplier and with quality high on its agenda, Dorchester Living selected **Draks** to supply and install products from its design-led wardrobe, dressing room and room divider ranges for the new homes at its Heyford Park development in Oxfordshire. Working together, the most suitable wardrobe solutions

have been devised for each of the 11 different house types that make up the 30 homes in the first phase of the development. All of the homes at Heyford Park will have a bespoke version of the Italian inspired Jericho sliding wardrobe doors, either in the master bedroom or bedroom two. With a full length aluminium handle, the Jericho doors provide a contemporary look.

enq.218

Remmers Floomix DQ – the ideal solution



The main production area of the Express Contract Drying factory in South Wales required refurbishment. The existing slabs created significant substrate challenges due to the mixture of old finishes and bare concrete. TPS360, the contractor for the project, was instructed to produce a new floor finish that

needed to be slip resistant with good chemical resistance while providing an attractive and highly durable finish. **Remmers Floomix DQ** flooring system was chosen for its special blend of decorative colour quartz aggregate and extreme durability which was ideally suited for this application. standard to avoid ponding.

0845 373 0103 www.remmers.co.uk

enq.217

Maxwood supplies superloo solutions



Maxwood has developed space-saving superloo solutions for new and refurbished commercial building projects. Single units, complete with a toilet pan and washbasin for use by either gender, can be designed and manufactured by Maxwood to meet individual project requirements. Small in size but big in design, the innovative super-

loo range includes vanity suites with pan and basin combined in one linear unit, which also conceals unsightly pipework. A choice of compact basin with a small, removable base and concealed drain hole are also available for a clean, minimalist look that makes the most of limited interior space.

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Michael Woods Sports & Leisure Centre © Paul Zanne

Mapei floor system provides peak performance at sporting trio

Mapei floor systems have been installed at three leisure complexes in Fife and Aberdeen. They include a new £18 million regional sports academy in Glenrothes – the Michael Woods Sports & Leisure Centre, Kirkcaldy Leisure Centre and the new Aquatics Centre at Aberdeen Sports Village. All Mapei products were installed by Architectural Ceramics for main contractor, GRAHAM Construction.

Located on the former site of Fife Institute, the Michael Woods Sports & Leisure Centre provides competition-standard facilities for community

use, including extensive swimming, dryside and outdoor amenities. Nearby, Kirkcaldy Leisure Centre includes swimming, gym and dryside amenities, as well as a multi-activity children's play centre. The largest complex – Aberdeen Sports Village – is a premier sport and exercise centre, that hosts a range of world-class sporting facilities.

The floor specification at Glenrothes and Kirkcaldy included Mapei Mapescreed 704 and screeds containing Mapei Topcem binder; a high performance, fast-drying hydraulic binder which reduces installation time to 24 hours for ceramic

and two days for stone tiling. Mapei Mapeprim SP synthetic resin-based and solvent-free primer was then applied. Mapei adhesives – Keraquick, Keraflex, Kerapoxy and Adesilex P9 – were used to bond a variety of ceramic surfaces, throughout wet and dryside areas, at all three centres. Mapei Ultracolor Plus, a fast setting and drying flexible grout, was then applied, providing anti-efflorescence, water-repellent and anti-mould properties essential in a leisure environment.

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Aquatics Centre at Aberdeen Sports Village © Paul Zanne



Kirkcaldy Leisure Centre © Paul Zanne

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A new dimension: Adapting design for educational environments

By Robert Mustoe, managing director of the Senator Group

Understanding the importance of individuality is paramount, whether it's in an educational environment or a Silicon Valley boardroom. By personalising the ways in which we approach tasks, we increase the potential to be more creative, productive and inspiring to those around us.

It is this ideology that has been influential in the design of work environments in recent years. It is evident in the widespread adaptation of open plan spaces, the rise of flexible working and the prioritisation of collaborative work.

A preference for flexible, adaptable spaces is increasing in the educational sector, with training facilities, schools, colleges and universities favouring design that accommodates both social

and solitary work, as well as the ability to move easily between the two.

With working styles easily distinguishing extroverts from introverts, or logical from creative learners, teachers and trainers are looking at spatial design to help cater for a variety of different requirements.

Designers and architects are now required to create tools that offer scope for adaptation and personalisation. This has been successfully utilised with cubicles traded in for open plan offices, as well as 'pod' spaces that can be assembled to enable private work or meetings to take place.

The increased use of flexible, removable screens between desks are another popular choice for those who prefer to work

Continued overleaf...

'Flexible, removable screens between desks are another popular choice for those who prefer to work privately'



‘Educational spaces have evolved at a rapid pace with the advancements in technology’



privately, without disrupting the spacious, relaxed setting of the rest of the office.

Group soft seating, mobile seating and stools function as ‘breakout’ spaces to encourage collaborative working in the form of informal discussions or team projects.

These minor adaptations to learning and working areas can enable the introverts and extroverts to coexist, so thought can be focused and independent in one part of the office while ideas are generated, discussed and turned into actions elsewhere.

This mode of working is integral to any classroom, university, library or training space. Teaching is informed by classroom dynamics, by the individual needs of different pupils and by the questions raised as a direct result of group interaction. Equally, one of the most valuable capabilities that can be taught in any training session is the ability to take ownership of work, produce it independently and understand how this impacts on oneself and the group.

Understanding learning in this way has meant that those leading a class, study group or training session can be discerning when it comes to the way in which they plan and teach. This development has been supported by the prevalence of technology in study environments, forming the future of work for Generations Y and Z.

Educational spaces have evolved at a rapid pace in line with the advancements in technology, with portable technologies fast succeeding pens and paper in learning environments. Teaching staff and designers have made the case for technology as a credible means of promoting personalisation, collaboration and authenticity in learning environments. Online exercises and

portable technology can sustain interest among students, encourage working outside of the learning space and maintain contact between facilitators and groups beyond the traditional classroom.

Designers must now plan to accommodate portable technology without taking away from the interactive nature of learning spaces. This can be achieved by mobile soft seating with spaces to put laptops and tablets, which can be moved to slot in beside teachers or classmates for group discussions.

For necessary desktop technologies solution providers now offer flexible monitor arms to increase comfort and promote mobility when seated at a desk, as well as convenient power sources to keep everything running smoothly. Desk accessories adapt to hold and charge devices and help to free up valuable desk space. Ergonomic design is more important to the structure of desk seating than ever before, with modern design engineering the best posture and comfort for users that sit for prolonged periods.

The adaptations made by designers and manufacturers to keep up with the changing demands of educational space allow designs to match technological progress and changing student demands.

In a learning environment we need space to move, engage and collaborate, but more importantly we need to work to our individual strengths and find a pace that works for all. We now have the opportunity to move into a new dimension for learning, creating a blank space to be tailored to suit students as they prepare for their professional futures.

Upholstered seating offers contemporary edge



Lyndon Design's recent collaboration with leading British designer, Peter Emrys-Roberts of ERA, has resulted in an upholstered seating collection named Romba. Featuring a modern rectilinear design, this collection is accentuated by colourful upholstered blocks and provides a contemporary and striking seating solution. Exploiting a vocabulary of simple

forms and materials, Romba provides the specifier with tremendous scope and choice. Featuring armchair and sofa options, the collection may be arranged into a variety of asymmetrical and symmetrical compositions to suit each particular scheme. Romba facilitates the controlled addition of colour or accent fabrics to the ends of its bolsters, conveniently the same shape as cushions.

enq.226

Boss Design unveils complementary seating



Echoing the transition that is currently taking place in the work place, moving from traditional ways of working to environments that support and promote flexibility and nomadic working patterns, leading British designer and manufacturer, **Boss Design**, announces the launch of Peek and Boo. Peek and Boo are available as one-piece or two-piece units that can be used

independently to create private spaces in open plan environments, or alongside each other to enhance collaborative working. With a swivel base and felt pads, this duo of excellence boasts luxury and contemporary styling. They are ideally suited to the prevailing workspace and a wide range of locations.

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Armstrong Ceilings shows its global head for heights with United Airlines

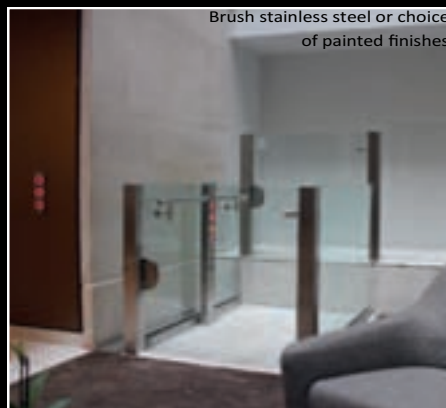
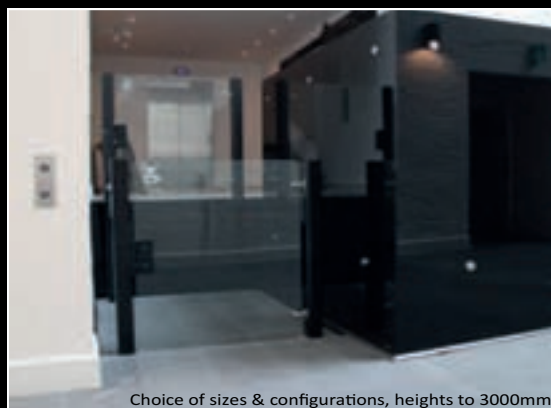
When global architects 3DReid were looking for a UK ceiling tile manufacturer, which was "critical" for the costing and timescale of their project, there was really only one option – **Armstrong Ceilings**. Armstrong's global Architectural Specialties team delivered samples to the airline and advised them directly when it came to the complex ceiling design for the 2,000 sq m United Global First Lounge the new Queen's Terminal (Terminal 2) at Heathrow airport. Some 800 sq m of Armstrong's Axiom Knife Edge 9,290mm x 1,200mm canopies with a mixture of perforated metal MicroLook 8 tiles in a pearl beige finish with fleece, the bespoke RH-225 hook-on ceiling system, also in pearl beige as well as brushed aluminium satin and signal white, and the Microperforated 600mm x 600mm S-Clip F swing-down tiles with fleece installed on the System 3,000 concealed grid in signal white – were specified to complement this design.

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Specifying accessible bathing solutions

Gainsborough Specialist Bathing, a market leader in the long term care sector, identifies five key factors architects should consider when specifying assisted baths for healthcare developments



'It is imperative to choose a specialist company [...] who can offer a wide variety of products alongside installation expertise and servicing capabilities'

If you are an architect or specifier involved with the development or refurbishment of care homes, nursing homes or hospitals, there are many factors to consider when specifying a supplier of assisted bathing equipment.

1. Consider the needs of both the bathers and the care providers

As there are various types of baths on the market, it is important to evaluate which product is appropriate for any given installation and whether its design is truly fit for purpose. Powered, variable-height baths need to be exceptionally robust to meet the demands of busy, high-traffic care environments. An

assisted bath can be used up to 70-100 times a week in a care home so specifying baths that are durable is critical to maintain operational reliability.

Factors such as the mobility of bathers and carer ergonomics also need to be considered. Some users may only need minimal assistance getting in and out of the bath, whereas other bathers will need more help. If a user has a reduced level of mobility and finds it difficult to get into a bath, then a powered transfer seat can help lift them into the bath safely and efficiently. This eliminates the need for carers to use unnecessary manual handling techniques to move or reposition bathers, thereby avoiding potential back injuries or muscle strains. Certain baths also incorporate variable height adjustment so that carers can fully

Continued overleaf...



‘Design services offers an indispensable solution to assist architects and specifiers during the planning phase’



attend to the bather in the bath without compromising good posture or risking injury.

The configuration of certain assisted baths can also better facilitate wheelchair and hoist access so transferring users in and out of the bath is easier. These types of baths include a hoist aperture so moving and handling equipment, including patient hoists, can be slotted underneath the bath to allow the bather to be positioned closer to the bath during transfer. In bathrooms with restricted space, baths can also be supplied with a detachable transfer chair to reduce the number of transfers and remove any need for additional equipment.

The inclusion of a thermostatic mixing valve (TMV) can be a useful safety feature on assisted baths as it keeps vulnerable users safe from potential scalding and injury, and assists care providers to maintain a duty of care. This is particularly relevant in care home and hospital environments where use of TMV3 valves is certainly recommended, if not mandatory.

2. Do the baths need to be WRAS compliant?

It is important to remember that Water Regulations Advisory Scheme (WRAS) compliance and meeting European safety legislation are essential when selecting any specialist bathing equipment for disabled users. This ensures conformity with Water Supply Regulations preventing waste, misuse, undue consumption or contamination of the water supply, and that they are ‘of an appropriate quality and standard’. Only a bath that is WRAS approved or has WRAS compliant components will meet these legal and regulatory requirements.

3. Choose a specialist with extensive experience in the healthcare sector

Whether you are working within the public or private sector, it is imperative to choose a specialist company, preferably the manufacturer, who can offer a wide variety of products alongside installation expertise and servicing capabilities. An established supplier with nationwide product specialists, installers and service technicians can fully support new build or refurbishment projects from concept to completion, whatever the complexity or geographic location.

4. Ensure technical support is close at hand and available throughout the project

Having access to specialist guidance and support from the outset is a major advantage when specifying assisted baths in healthcare environments. At the initial stage of selection, manufacturers should provide comprehensive product specifications and CAD data so the most suitable baths can be identified quickly and easily. Some may also provide detailed architect and specifier guides that highlight the care options associated with their products. If further in-depth guidance is required or an architect seeks solutions to specific project challenges, then advice from technical support advisors also needs to be readily available.

Once the most appropriate products have been specified, suppliers can provide a complete service that offers full site surveys, project management and bathroom design along with installation, commissioning and user training for care staff. This allows architects to focus on other aspects of a build with peace of mind that the specialist bathing areas will be configured appropriately. Support of this kind will help to enhance efficiency of projects and deliver a bathing solution suited to the needs of the care setting.

5. A 3D bathroom design service can be highly beneficial at planning stages

Design services offers an indispensable solution to assist architects and specifiers during the planning phase. Services can deliver highly accurate CGI room sets showing assisted baths within the built environment, along with detailed scaled plans so installations can be visualised more clearly in 3D. This ensures bathroom layouts are fully optimised in terms of accessibility and user ergonomics, even before construction begins. The available space is also maximised so that wheelchairs and hoists can be easily manoeuvred in and around the bathroom safely and efficiently.

The next big thing in platform lifts

Platform lifts have been around for some time now with the standard platform size of 1,100mm wide x 1,500mm long, more than capable of accommodating a wheelchair passenger and attendant but when you need to move individual items which are longer than 1,500mm what do you do?

This was the situation at Cardiff University in their chemistry building. The university needed to

move chemistry trolleys safely and easily between the preparation and chemistry labs, which measured 1,650mm long. The standard platform lift was too short in length and the next option was a conventional 13 person passenger lift, which due to the deep pit requirements, could not be provided in the existing building.

After discussion with Axess 4 All, the large capacity A8000 platform lift was suggested, which has all of the benefits of a platform lift with a small recess and no over travel but with a platform length of 2,480mm long.

A space for the A8000 was found in the entrance stairwell and as the platform lift would sit inside the existing ornate stairwell, it was decided that the shaft panels should be glazed to allow as much light as possible though the platform lift and continue with the feeling of space within the stair well. To ensure the platform lift would also fulfil its requirements from a disabled



access perspective, the unit was fitted with power operated doors with remote push button which allowed wheelchair users to call the lift and be out of the swing of the power operated doors.

Installation took place over the spring half term break so disruption to the university and students was kept to a minimum with the platform lift being installed, commissioned and handed over within a five day period.



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Barwood Products luxury wavy grab rails



Barwood Products, a leading manufacturer and supplier of quality bathroom products for the less-abled and special needs market, has launched a new addition to its luxury grab rail portfolio. The new 'wave' rails are manufactured from polished stainless steel and feature

a mirror finish for the ultimate glossy look. There are three sizes, 366mm, 479mm and 600mm each with 32mm diameter and featuring concealed fixings for a seamless installation. They have been designed to add a touch of glamour and luxury to bathrooms for the less-abled.

01782 561 814 www.barwoodproducts.com

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Lifetime bathrooms from On The Level



A wet room is the ultimate solution if you are creating a lifetime bathroom for people to use and enjoy even when their mobility decreases. On The Level offers tailor-made, complete wet rooms for easy level access which can be adapted for the elderly and less able with added safety features such as non-slip sheet vinyl flooring, grab rail and

seat. On The Level has been designing and manufacturing patented Birch ply underfloor trays for wet rooms for 15 years and can design and manufacture a bespoke underfloor tray. The company create complete unique level access wet rooms for care homes, private residences, hotels and hospitals.

01525 373202 www.onthelevel.co.uk

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Saniflo launches new Traymatic



Saniflo has launched a new version of its popular Traymatic, a low profile shower tray. Now available with anti-slip flooring, ramps, a round waste, plus an optional shower seat and measuring just 5.3cm high, the new Traymatic is suitable for more applications than ever before. Perfect for domestic and commercial settings, Traymatic is supplied with either an internal or external pump, which sits above floor level. This means there is no need to either

excavate the floor, which saves lots of time and mess, or raise the tray up, which keeps this low level tray low. It will discharge in 2.2cm pipework a distance of 2.5 metres vertically and 20 metres horizontally (or a lesser combination of the two).

020 8842 0033 www.saniflo.co.uk

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Helping achieve social model of disability



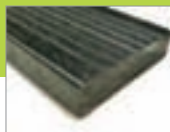
Removing the barriers that restrict independence for disabled people is made easier, at least in the bathroom, through options available from Clos-o-Mat. The company's Palma Vita looks like, and can be used as, a conventional toilet, but has additional, integrated facilities which wash and dry the user instead of them wiping with paper. Its

delivery of a consistent, efficient process gives greater cleanliness for all users, regardless of impairment, and can eliminate the need for carer assistance. Thus The Palma Vita gives choice, independence and control for the disabled user – all key elements of the social model of disability.

0161 969 1199 www.clos-o-mat.com

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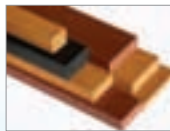
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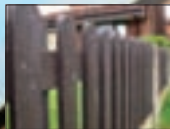
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