

Design Buy Build

M A G A Z I N E

Issue 30 2018

www.designbuybuild.co.uk

Self Builders



Property Developers



Architects



Interior Designers



N House

A quiet single family dwelling with a small footprint, creating a large garden for the kids to play.



Bécassines Cottage

A large 4 bedroom cottage and dormitory comfortably accommodate more than a dozen people.



ASP Arquitectura

Villa Jardin, a Dialog Between the Constructed Building and its Environment.

SketchUp 2018 is here!

Deliver work you're proud of

Smarter Sections

Section planes now have names and symbols, making them easy to find and organise. Filled section cuts are now baked into SketchUp Pro! There is also improved performance for models that use section planes to hide a large amount of geometry. The more geometry you section off, the more you'll benefit!

Make Better Drawings

Need to add linework that's not in your model? Create a scaled drawing in LayOut and sketch over a 3D model to flesh out your project, or draw from details to scale directly in LayOut. With inferencing, chamfering and filleting, arcs, offset arrays and selections; LayOut is even better at everything you need to draw details or create beautiful illustrations at scale.

There's more!

Got BIM?

We've introduced Advanced Attribute fields for a component's Price, Size, URL, Type Status and Owner. Generate Report now aggregates component data so you can do things like configure reports to sum parts and quantities and cutlists, or create detailed estimates by adding up prices by layer.

You can rely on IFC in SketchUp to transfer the attributes you assign and manipulate in projects, allowing for information to move freely between SketchUp and other applications.

- Import DWG files into LayOut
- Multi Viewport Dimensioning

- Native support for importing and exporting STL files
- Improvement to Outliner's overall load performance

Contact **Elmtec**, SketchUp's distribution partner in the UK



E: sales@elmtec.co.uk



T: 01844 263750



W: www.elmtec.co.uk

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Axelrod Architects, led by Principal Irit Axelrod, recently transformed a single-family house in Tel Aviv to reflect the homeowners' love of serenity and sleek modern design, and the firm's vision of modern residential architecture.

24-27 Surfboard House

Five years after Hurricane Sandy devastated the cooperative beachfront community of Breezy Point, Queens, the project built upon a lot that had been reduced to sand is complete.

38-40 Kooshk House

Being far from nature perhaps is one of the bitter phenomenon in nowadays modern lives. Living in spiritless and compact apartments evokes the need of keeping in touch with nature and being far away from cities chaos.

44-46 House HC

The terraced house is located in a housing project from '58 in Wondelgem, Belgium. The project has the typical combination of identical row houses with alternately mirrored ground plans.

54-58 N House

The project sits in a quiet residential neighborhood northeast of Tel Aviv. It is a single-family house that shares a party wall with its neighbor. The brief was to design a single family dwelling for a young family with four children.

62-65 Bécassines Cottage

Located on the shores of Lake Memphremagog in the Municipality of Potton, this cottage with four large bedrooms and a dormitory comfortably accommodates more than a dozen people, enabling them to appreciate the location thanks to its wide openings onto the surrounding nature.

70-74 Northampton Uni

Proteus Facades has helped create a striking new feature on The University of Northampton's Riverside Campus in the form of a 26-metre flue shaft on its new £6.9m biomass plant, completed with Proteus cladding panels and an integrated LED screen by digiLED.

Products & Services

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Design Buy Build - www.designbuybuild.co.uk

Editor
Mike Hills
mike@designbuybuild.co.uk
01304 806 039

Publishing Director
Martin Holmes
martin@mhmagazine.co.uk
01304 806 039

Sales Director
Ryan Nolan
ryan@designbuybuild.co.uk
01227 392 517

Editorial Manager
Rebecca Young
rebecca@mhmagazine.co.uk
01304 806 039

Office Manager
Antony Holter
antony@designbuybuild.co.uk
01304 806 039

Editorial Assistant
Fiona Medows
fiona@designbuybuild.co.uk
01304 806 039

Digital Manager
Jamie Bullock
jamie@mhmagazine.co.uk
01227 392 571

Circulation Manager
Chloe Eldridge
chloe@mhmagazine.co.uk
01304 806 039

Creative Director
Josh Holmes
josh@mhmagazine.co.uk

Studio Designer
James Sayer
james@mhmagazine.co.uk

Published by:
MH Media Global Ltd
Office 15, Second Floor,
Innovation House,
Discovery Park,
Ramsgate Road, Sandwich,
Kent, Ct13 9ND

Tel: 01304 806 039
Fax: 08721 152240

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The Black Core House

Axelrod Architects

Axelrod Architects, led by Principal Irit Axelrod, recently transformed a single-family house in Tel Aviv to reflect the homeowners' love of serenity and sleek modern design, and the firm's vision of modern residential architecture.

The firm provided architectural design and interior design services for this 510 sq m / 5500 sq ft residence, consisting of two levels plus a basement, on a landscaped lot size: 710 sq m / 7600 sq ft.

The new homeowners wanted to remodel an existing 1980's house to reflect their indoor-outdoor lifestyle. Their family life is now centered around a lush landscaped courtyard just outside their living-dining space.

Axelrod Architects organized the house around a new 'Black Core', a glossy, black glass elevator that connects the living spaces below to the private sleeping spaces above.



AXELROD ARCHITECTS TRANSFORMS A
TEL AVIV HOME FROM '80S GLITZ TO NO-
NONSENSE, MODERN COOL:







The living space opens out to nature with sliding, clear glass openings, while opening upward to the bedroom level with open balconies and a double height ceiling. An open reading/media area tucked away upstairs allows the family to see each other while still finding quiet space for relaxation.

The entry facade of white concrete and matte stucco is perforated by vertical openings and horizontal slits that reveal the indoor-outdoor nature of the home within, presenting a sleek modernist face to a quiet, upscale neighborhood of Tel Aviv.

The glass surface of the black core inside reflects images of landscape throughout the house, reinforcing the idea of living in nature. The simple clarity of contrasting surfaces - in black & white or glossy & matte - is one of the unifying characteristics repeated in the interior design and the architecture of the building envelope.

The Black Core House espouses the firm's Principal Irit Axelrod's modern visual language, influenced by numerous International Style and Bauhaus buildings found in modern Tel Aviv. This design influence runs deep in all her projects.

BY: KRISTEN WIIG

Modern Masonry Alliance

— increased capacity to deliver more housing

Concrete block, aircrete, brick and concrete roof tile manufacturers are now investing in the future. The country needs more housing, and concrete manufacturers are increasing production capacities.

The Modern Masonry Alliance response to the government housing white paper makes the case for the performance benefits of masonry construction and the capacity of the industry to deliver.

Manufacturers are reporting a doubling of block output to meet the forecast increase in housing starts and that spare capacity remains in the system. Throughout the UK there was significant investment in 2016, and there has been further investment in 2017. This is in the form of replacement of old plant to increase production rates or new additional production lines. Members also continue to extend working hours and bring mothballed production lines into operation to meet increasing demand, and they report that further spare capacity can be brought online as and when demand increases further.

Where is investment increasing?

Tarmac's Building Products division is increasing its Durox aerated block manufacturing capacity. It is well positioned to continue to meet high customer demand for quality block products. The second of two existing factories in Essex, is due to open late this year.

Thomas Armstrong is another company increasing block production with a new plant in Leeds. This latest factory development advocates the government's aims of creating a Northern Powerhouse, addressing the issues of an unbalanced economy.

Besblock is also working to accommodate the increased housing



demand. The firm, formed in 1972 announced in 2016 an investment of £1m including further plans to invest in technology and environmentally friendly vehicles.

And it is not only blocks, but bricks as well. Ibstock is boosting capacity having recently invested £54 million into a new factory.

This move will increase the production of bricks to deliver an extra 15,000 homes annually from the end of 2017.



And finally, investing nearly £8 million to expand capacity at its Leighton Buzzard factory, Forticrete is increasing the volume and quality of concrete roofing materials. The company's bespoke new tile line has been purpose built, to produce two brand new large format tiles which will deliver cost and time savings.

With the government's pledge to build one million houses before 2020, the efforts already made by UK block, aircrete, brick and concrete roof tile manufacturers are a step in the right direction in meeting this ambitious target.

Skills

Masonry construction, even with a 50% increase in housing starts in the last 6 years, still represents the vast majority of housing being built.

This is testament to a large and widely spread resource of skilled operatives. These skills are well known so that projects can be delivered with a high level of performance. With the dynamic nature of the construction industry, skills shortages are often reported across all parts of the industry including office based professionals and site operatives. The ubiquitous nature of the brick laying skill makes it as responsive as any of the construction skills we need.

Homes with High Performance

High performance housing exceeds regulations and standards across a range of performance parameters. This housing can be built using locally available masonry. The inherent properties of aggregate and concrete blocks make it easy for designers to achieve required

outcomes for their housing projects. These include:

- Non combustible
- Good thermal properties
- Durable
- Robust
- Inert
- Rot resistant
- Good acoustic properties
- Moisture resistant

Masonry products are local, low carbon and long lasting. The inherent properties of the product give whole life performance that enables designers to deliver homes with benefits to occupants and owners:

Low fire risk – Masonry materials are non-combustible and do not allow the spread of fire, unlike some other forms of construction.

Energy saving – The insulation, air tightness and thermal mass of masonry homes, particularly when combined with concrete floors, can result in low energy bills.

Long life – Meaning homes retain their value for future generations. A valuable investment.

Quiet – Aircrete and aggregate concrete blocks are included in 34 registered Robust Details for separating walls, which exceed minimum noise performance requirements. Upper floors of concrete provide exceptional internal sound insulation.

Secure – in high risk areas and for attached housing, solidity of masonry provides increased security.

Comfortable – A home needs to be solidly built with no vibration issues, good with noise separation from family, housemates and neighbours; as well as being warm in winter and cool in summer. Masonry homes deliver this comfort.

Flood resilience – Homes built from aircrete and concrete blocks suffer less damage because they are robust, dimensionally stable and do not rot in the event of flooding.

Thermal bridging

Achieving required or desired energy performance arises from good design and construction in the following areas: U-values, air tightness and thermal bridging at junctions.



Thermal bridging is not a new issue or concept, but as the U-values of walls and floors has improved and airtightness has increased, the percentage of lost energy that passes through thermal bridges has increased. Therefore it has become increasingly important to attend to thermal bridges – and for SAP assessors to sharpen their pencil and not use default values.

For masonry construction, design help is available through a suite of details for which psi values* have been calculated. Clients and architects should require SAP assessors to use these more accurate psi values associated with the actual details rather than default values in SAP. Use of these details goes a long way to helping optimise fabric performance. By having details with the associated psi values, compliance can be demonstrated without recourse to more expensive solutions. Their use can also help avoid the need for renewables.

Fire resilience during construction and on completion

In mitigating the risk of fire, a sensible starting point is choosing non-combustible structural materials – and masonry is one of these. Data has been published by The Department of Communities and Local Government showing statistical analysis of fires in completed timber buildings.

“Fires in dwellings of timber framed construction experienced on average more damage than those of no special construction” (Stephen Williams, MP, Minister Communities and Local Government. House of Commons January 22, 2015)

The results aren't surprising – timber

buildings are more susceptible to fire spread than masonry buildings are. During the construction stage of a building project, choosing the right materials is essential in mitigating any fire risk. Whilst proper design is essential, the structural material chosen is incredibly important; non-combustible masonry blocks are a great starting point.

The HSE has previously raised concerns of poor management in reducing the risk of fire in timber buildings. There has been unease that the necessary procedures are not being followed, further increasing the risk of harm to occupants of neighbouring buildings.



“All those making design and procurement decisions that significantly affect fire risk should consider and reduce the risk and consequences of fire during the construction phase through DESIGN.” (HSE Open Letter October 2014)

The masonry industry suggest that whilst proper design is required no matter what structural material is chosen and whilst workmanship is always important, a sensible starting point in risk mitigation is to choose

non-combustible structural materials.

Whilst the benefits of masonry during the construction phase are apparent, on completion the reduced risks from fire remain. With the inability of the product to burn, masonry homes offer a long life solution. By choosing masonry over timber or other materials, builders reduce the risk of fire related hazards. The masonry industry has made a huge response to the increased activity in the housing sector, and by watching demand for products it continues to deliver energy efficient, fire resilient homes with excellent food resilience and acoustic performance.

For more information visit www.modernmasonry.co.uk

*A psi value is the measure of energy lost at a junction.

Walk In Wonderland

6 Secrets To Creating The Perfect Custom Wardrobes

Wyndham design director and founder Richard Thomas explains what to consider when creating your dream wardrobe space.



1 Styling And Colour

Although white may be considered by some as bland and unimaginative it does make the perfect blank canvas for setting off the main feature of the wardrobe, namely the clothes. In fact not only will it set off the garments it will also create the illusion of space in a room where space is often limited.

If you use this in combination with mirrors then you are really opening things up.

If on the other hand you have the luxury of a larger space then dark woods or dark lacquer colours can inject mood and accents to the room, and coupled with clever lighting can also produce beautiful results.

2 Use Your Space

The most common error comes with trying to get too much into a defined space. Less can be more and in the case of walk in wardrobes it is often best to have a corridor run of wardrobes rather than return sections that may give dead spaces to the corners.

3 Doors

If you have wardrobes running in parallel right and left of you it's important to consider the room required to open them fully on both sides. If the corridor has a limited width then a sliding door option is often a more useful application.

Of course doors can be removed completely in a walk in wardrobe situation, but this can be challenging in terms of keeping things visually clean on the eye.

4 Accessories

Shoes, belts and jewellery can be set and displayed in a variety of ways including bespoke shoe racks, drawers, or shelving.

Consider these items as signature display items using particular shoes and jewellery as pieces of 'art' in their own right.

Look at ways to enhance presentation using bespoke drawer linings, custom made compartments and lighting panels.

5 Lighting And Ambience

The key to creating the overall mood of any walk in wardrobe or fitted wardrobe is lighting.

Consider ways to implement mood lighting on the interior as well as the exterior and use the same level of coloured lighting be it warm or cool white to maintain a consistency with the overall ambience.

6 Detailing

Think of you wardrobe as a blank canvas and like any great painting don't overwork it.

Small accents such as handles and the application of mirror can be often all you need to create your masterpiece. Remember too many materials and textures will start to conflict and as a general rule simplicity is king. At Wyndham we try to keep it simple with only 2 to 3 different materials and finishes to produce a stunning design.

www.wyndhamdesign.com

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Homes that people want to live in. Homes that last.

Masonry homes provide superior performance benefits, both in construction and in use.

Energy saving

The thermal performance of concrete and masonry homes can provide homeowners with the lowest energy bills because of the superior insulation, airtightness and thermal mass.

Long life

Purchasing a home is a major investment and the inherent performance of concrete and masonry provides robust and secure homes that will last for many generations.

Low fire risk

Concrete and masonry are non-combustible protecting life and property safety for occupants. During construction, these properties also protect the developer and surrounding community from spread of flame.

Quiet

Masonry walls can support precast floors which do not squeak: 48% of homeowner noise issues raised with NHBC for detached homes were creaking floors (NHBC Foundation Report NF56).


Flood resilient

Homes built from concrete and masonry suffer less damage because they are robust, dimensionally stable and do not rot.

Visit www.modernmasonry.co.uk for:

- Explanations of different blocks, bricks and mortar
- Evidence for properties and performance
- Understanding of design and guidance
- Case studies

www.modernmasonry.co.uk

 @masonrymodern

Modern Masonry Alliance is affiliated to MPA British Precast.

Project: Derwenthope, York

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A revolutionary new product from Modular Building Blocks is generating a lot of buzz with switched on architects, interior designers and housebuilders. EverBlocks offer a flexible, versatile solution for specifiers, designers, architects and many other industry professionals by providing a semi-permanent building material that can be re-used and redesigned.



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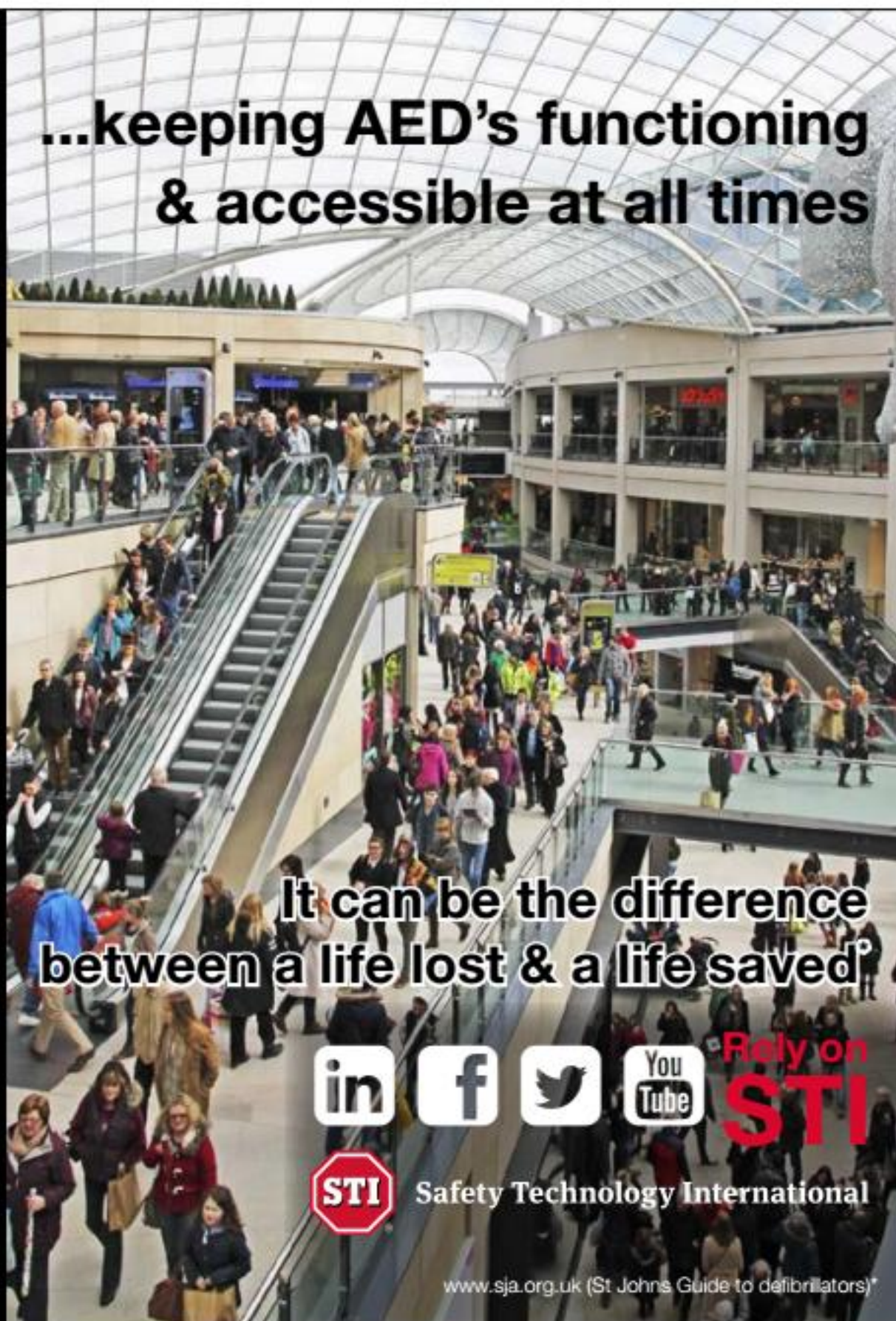
Model shown is a UV-stabilised polycarbonate cabinet with sounder/strobe

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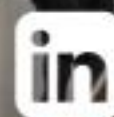
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www.sja.org.uk (St Johns Guide to defibrillators)*

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Sioo are leaders in wood protection using silicate technology. We provide a highly effective proven system to protect wood of all types. It gives long life and a beautiful natural surface with even colouration and is friendly to people and the environment. An example of a Sioo project is Ålleberg High School, a low energy building in Falköping, Sweden.



Sioo Wood Protection AB | www.sioo.co.uk

Recognising the specialism of conservation within architectural practice

Despite continuing global growth within the construction industry, the majority of building stock has already been built. While some structures are demolished to allow for better use of the land; others are spared.

Often the reasons for this are that the site has substantial cultural or emotional significance to the local or wider community. In order to maintain these buildings, a growing team of professionals specialising in refurbishment, repurposing, protection or preservation are called upon.

Conservation work is an assembly of knowledge which results in incorporating a piece of history within the present by using conventional construction techniques. Best practice from similar projects and up-to-date research is applied, rather than following a strict set of conservation 'rules'. These guidelines stem from the International Council of Monuments and Sites (ICOMOS) which is the body associated with

preservation internationally. Individuals who are Accredited Conservationists, must demonstrate competence within five key areas which are:

- philosophy of conservation
- site analysis and intervention
- investigation, materials and technology
- social and financial issues
- implementation and management of conservation works

Conservation practitioners must have the ability to identify, determine and understand what is important about buildings and their surrounding areas. They must also understand how the building worked, what materials were used to build it, and in turn make assessments as to how the existing structure will interact with any modern alterations.

. It is unlikely that one individual or practice will have sufficient expertise to carry out a conservation project without involving another specialist or at least by referring to technical guidance from accepted sources.

It is this process of constant learning and sharing of knowledge and resources which assists in maintaining and spreading the knowledge and body of professionals who are capable of appropriately serving our built heritage.

For more information on becoming a CIAT Accredited Conservationist, please contact Amina Khanum, Specialist Registers' Coordinator Amina@ciat.org.uk.



Chartered Institute of
Architectural Technologists



The Newton Membrane Recycling Service

Every year the waterproofing industry sends hundreds of tonnes of plastic membrane offcuts to landfill, as there was no service capable of collecting and recycling the material.

In direct response to this, Newton Waterproofing has therefore developed the Newton Membrane Recycling Service.

Available through Newton Specialist Basement Contractors, the service is entirely traceable and 'closed-loop', as the recycled product is used to manufacture new products for the construction industry.

The Newton Membrane Recycling Service is the first scheme of its kind in the UK, and has recycled over 3 tonnes of material since it was launched in 2017.

Newton Waterproofing Systems
 Website: www.newtonwaterproofing.co.uk
 Email: tech@newtonwaterproofing.co.uk
 Telephone: 01732 360 095



CONSTRUCTION WORKERS GET CHARGED.....

Transformer and 110 Volt junction box manufacture Site Power UK has just signed a 10 year agreement with the inventor and UK patent holder John James Philpott (Western-Super-Mare) to fit USB fast charge ports to their wide range of building site transformers and 110volt junction boxes. In the UK, construction worker's power tools run on 110Volts, higher voltages are not allowed on Health and Safety grounds.

Ashley Ricketts – Managing Director of Site Power UK knows that a flat battery when you need to phone love ones or order urgent building supplies can be really frustrating, even those lucky enough to own an I-PHONE X can keep it charged off one of our construction site USB charging ports. Even large tablets can be charged, the USB's are the very latest style. The licence allows for us to put USB charging ports on any 110 Volt site equipment.

These construction site transformers and 110volt junction boxes are available direct from the manufacture, no charge is made for the charger - no pun intended! www.sitepoweruk.com



Elite Stone Gallery - First London Premises For Leading Italian Marble Company

On November 1st 2017 Tetyana Kovalenko, CEO of Elite Stone, opened her first London showroom, Elite Stone Gallery, a 200 square metre space for customers to choose marble and onyx, a showcase for their infinite possibilities. The gallery is in partnership with the famous Borghini quarry in Carrara, renowned for their white and blue grey marble, chosen by Michelangelo for his David.

Projects from Elite Stone (HQ near Verona) include a 3,500 square metre backlit wall at the Mariinsky Theatre, St Petersburg, 50 St James Hotel in London, a magnificent basement spa area in Surrey, villas in Como and Majorca, the Waldorf Astoria Jerusalem Hotel.

Elite Stone Gallery
 74 Margaret Street
 Fitzrovia
 London
 W1W 8SU

Telephone: 020 3302 5570
 Email: info@elitestonegallery.co.uk
 Website: www.elitestonegallery.co.uk

Designing For Lives Well Lived

*Can life really be better by design?
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Design is all about imagination and logic. It's about balancing beauty with utility, and fusing tradition with innovation. Good design goes one step further though. It pushes the boundaries into the realm of 'so much more'. Good design is intuitive. It listens, it understands, and it responds. It thinks beyond the pragmatic and instead focuses on creating spaces that are inspiring and joyful.

That's what we believe in. We devise rooms that are elegant and organised, but never untouchable. Our houses should be living, breathing homes that smile at, not shirk from, all the stuff that comes with chaos of family life. We may obsess about the precise angle of a table's leg, but we then celebrate how it stands in a room that's lived in and loved. This is furniture that's as good-looking as it is hard-working. And everything is designed to get better with time. We like to think we're creating heirlooms of the future.

Think and thought drives us. In making and in doing. We even think about thinking. We aim high, we commit fully and we challenge ourselves to do better, but always with at least one foot on the ground, and always with the

customer as our mentor and muse.

And perhaps the most wonderful element of all of this is that by creating pieces that work hard, and designs that go further than function, our homes can keep pace with the race that is modern day life. Then watch. The lives inside of it actually end up slowing down, opening up pockets of otherwise lost time to spend with those we love the most. Modern, fast-paced thinking seems to allow enriched, slow living.

At Neptune, we believe that simple is beautiful. That working with the best materials is fundamental. That living through our designs as we draw them is what makes us special. We believe that our homes should make us feel refreshed and recharged, restoring us to the best version of the person we're meant to be. They should make us happy.

Neptune. Designing for lives well lived.

neptune.com/Colchester

Neptune Colchester
 342 London Road
 CO3 8LT
 01206 212 650
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Salice's To Showcase New Products At Kbb 2018



SALICE will be exhibiting their range of industry furniture fittings for kitchens, bedrooms and bathrooms at the KBB show, held at the NEC Birmingham from 4th-7th March 2018.

From Stand 0100, visitors can view their product range, including their renowned Silentia and Air hinges, the ultra-compact Wind lift system, Lineabox slim walled drawer system, and the increasingly-popular Eclipse pocket door system.

If it's drawer organisation that you are incorporating, then Salice's Split dividing and storage compartments system, which is compatible with Salice Lineabox drawers, will be ideal.

Walter Gosling, Branch Director of Salice commented, "Our product range continues to grow

with innovative and functional furniture solutions for modern day living. We have increased the size of our exhibition stand at KBB 2018 in order to accommodate our expanding range, and are looking forward to demonstrating our systems to visitors".

Visit Salice on Stand 0100 where their Sales and Technical Teams will be providing assistance to visitors, and explain the many reasons why SALICE remains the preferred choice for designers, architects and manufacturers keen to incorporate state-of-the-art features to differentiate their offering from the competition.

For further information on the SALICE product range, telephone 01480 413831 or visit www.saliceuk.co.uk

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Working nationwide and with a large and varied portfolio of projects to draw experience from, from 4th floor basements in central London to large Cotswold estates, Buckingham Pools are well versed in all aspects of luxury swimming pool design and are happy to meet with you or your design team to bring your dream pool to life.

www.buckinghampools.com



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Armstrong Commercial Laundry Systems



The new KIP Hotel in Hackney offers affordable room only accommodation in the heart of one of London's most vibrant areas. "Despite the bulk of the laundry going out, the Armstrong equipment is in daily use, operated by the housekeeping team and the porters. Having it there means we can be confident of always being able to meet the demand for clean laundry, particularly towels, and meet the expectations of our clients who demand high standards despite the very reasonable

rates we charge. We are very pleased with the equipment and Armstrong's service." "We get a lot of people in the modelling, film and photographic worlds together with people involved in music events. All our rooms have air con, free wifi and smart TV so those who need to can carry on working in their rooms."

Tel: 01635 263410

E: enquiries@armstronglaundry.com

Website: www.armstronglaundry.com

Schöck retrofit solution for major office-to-residential conversion

The Kellogg Tower at Sudbury, in North West London, previously the London headquarters of the international contractor M.W Kellogg, is being transformed into a contemporary residential scheme known as Atrium Point. The existing buildings are being sustainably refurbished, with solar panels, air source pumps and heat recovery units, all contributing to meet CO2 reductions in the redevelopment.

It is currently one of the largest office-to-residential schemes in the capital and will realise a mix of a 290 studios, one and two bedroom apartments. Many of the units will benefit from a cantilevered steel balcony, supported to the existing reinforced concrete slab and structural thermal performance is a key consideration. Market-leading thermal break suppliers Schöck, are the go-to company for this type of specification, with the availability of their innovative Isokorb type RKS for refurbishment applications. The product is fully certified as an "Energy saving component" by the Passivhaus Institute in Darmstadt, Germany, which highlights the importance of thermal performance, even for

refurbishment projects of this type.

The type RKS is a load-bearing thermal break with a 120mm insulation element thickness that allows the replacement, or addition, of balconies to an existing building, by connecting cantilevered steel balconies to the reinforced concrete slab. It minimises thermal bridges at concrete-to-steel connections on cantilever balconies and transfers negative moments and positive shear forces. This offers a number of different options for integrated,

energy-efficient building renovation and guarantees enormous scope for design.

The RKS also provides LABC registration, the highest level of BBA Certification and easily meets the necessary Building Regulations.

For your free copy of the new Thermal Bridging Guide and / or the Schöck Specifiers Guide – contact the company on 01865 290 890 or visit www.schoeck.co.uk





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Established in 2009, IRFTS (Easy Roof) is a French company focused on solar technologies with its own research and engineering units. IRFTS's objective is to give access to solar technologies by designing and manufacturing new solar systems for roofs, ground mounted or stand-alone systems. IRFTS deploys its concepts across Europe and is renowned as a specialist in design and marketing just like its flagship BIPV solution: EASY ROOF EVOLUTION.

The company also supply mounting solutions for on-roof projects (EASY ROOF TOP) alongside solar pergolas & solar carports (IRFTS SHADOW SOLAR) and solar sunshades (IRFTS UMBRA SOLAR).

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Itac Limited, Delvemade's parent company, exclusively manufactures all Delvemade products. Both businesses operate closely, working together, from

Itac's new, 'state of the art' production facility, in Manchester. Established over 100 years, Itac has a wealth of adhesives and coatings manufacturing experience.

An Investor in People, with ISO 9001 and ISO 140001 accreditations, Itac is the perfect manufacturing partner for Delvemade, ensuring the highest quality plus rapid supply on demand, and interim warehousing for all Delvemade products. The current Delvemade range includes all the well-known names. Seamsil, Delcote, Delcote HPG and Delglaze.

Itac's Research and Development team are actively working with Delvemade as it invests and expands, to bring further new and exciting building and roofing surface coatings to market.



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RMIG Expanded Metal is a light, versatile and attractive choice for building applications because of its aesthetic qualities and the creative freedom it offers.

Expanded metal from RMIG has become increasingly popular among architects for its wide spectrum of aesthetic and functional advantages, and is often the ideal choice when working with materials such as concrete, steel and glass. It can be used for both practical and decorative purposes and it offers architects a new level of creative freedom when designing applications such as facade cladding, sun

screens, ceilings, fencing and protective screening.

RMIG Expanded Metal has a modern yet timeless look, and creates the possibility of designing unique and eye-catching shapes and expressions – yet another reason why architects favour this versatile product.

RMIG has its own production facilities for expanded metal where sheets are manufactured from, for example, aluminium or steel. The expansion of the metal takes place in one efficient production process.

Expanded metal is made in one piece without joints or welds, which makes it ideal for forming, pressing and cutting. There is no metal lost in the process and, as expanded metal is also virtually maintenance-free, this increases the cost effectiveness of the material. Combined with its high strength and outstanding anti-skid qualities, there are many valid reasons for using expanded metal.

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Ecobuild 2018: The Event Shaped By The Industry

ecobuild is returning to the ExCeL London in March 2018 and under the new ownership of Futurebuild Events Ltd, things are set to be very different. The event is being designed and built around the industry, bringing to life the latest technology, freshest thinking and most innovative materials.

The event is not only being shaped through comprehensive industry feedback, but also with direct input from leading industry influencers.

These include Lynne Sullivan, Nathan Baker, Julie Hirigoyen, Darren Richards

and Peter Murray, who are all members of the ecobuild Steering Group, which is helping to set the agenda for the event.

Martin Hurn, Managing Director of Futurebuild Events, explains: "New, independent ownership offers a unique opportunity to completely overhaul the event.

We believe that to be as relevant and valuable as possible, we need to understand and act on what built environment professionals want to see at ecobuild. We see our role as to facilitate the agenda, rather than dictate it."

The CPD Accredited Conference Programme

This year's conference takes its lead from global environmental targets, with sessions reflecting the concerns of the built environment industry and formulating practical recommendations for action. Some of the big issues represented by the UN Sustainable Development Goals, the New Urban Agenda and the Paris Agreement will provide the focus. Speakers include experts in their field, including Jane Duncan, Paula Caballero, John Elkington and Bill Dunster.





ecobuild Sustainability Showcases

Surrounding the conference arena will be the ecobuild sustainability showcases, home to some of the most innovative solutions to the issues facing the built environment.

The showcases will truly put sustainability at the heart of the event.

They will feature two full-scale builds, including the zero net carbon home from ZEDfactory – designed to minimise fossil fuels and annual energy bills. It offers a

complete response to the housing crisis.

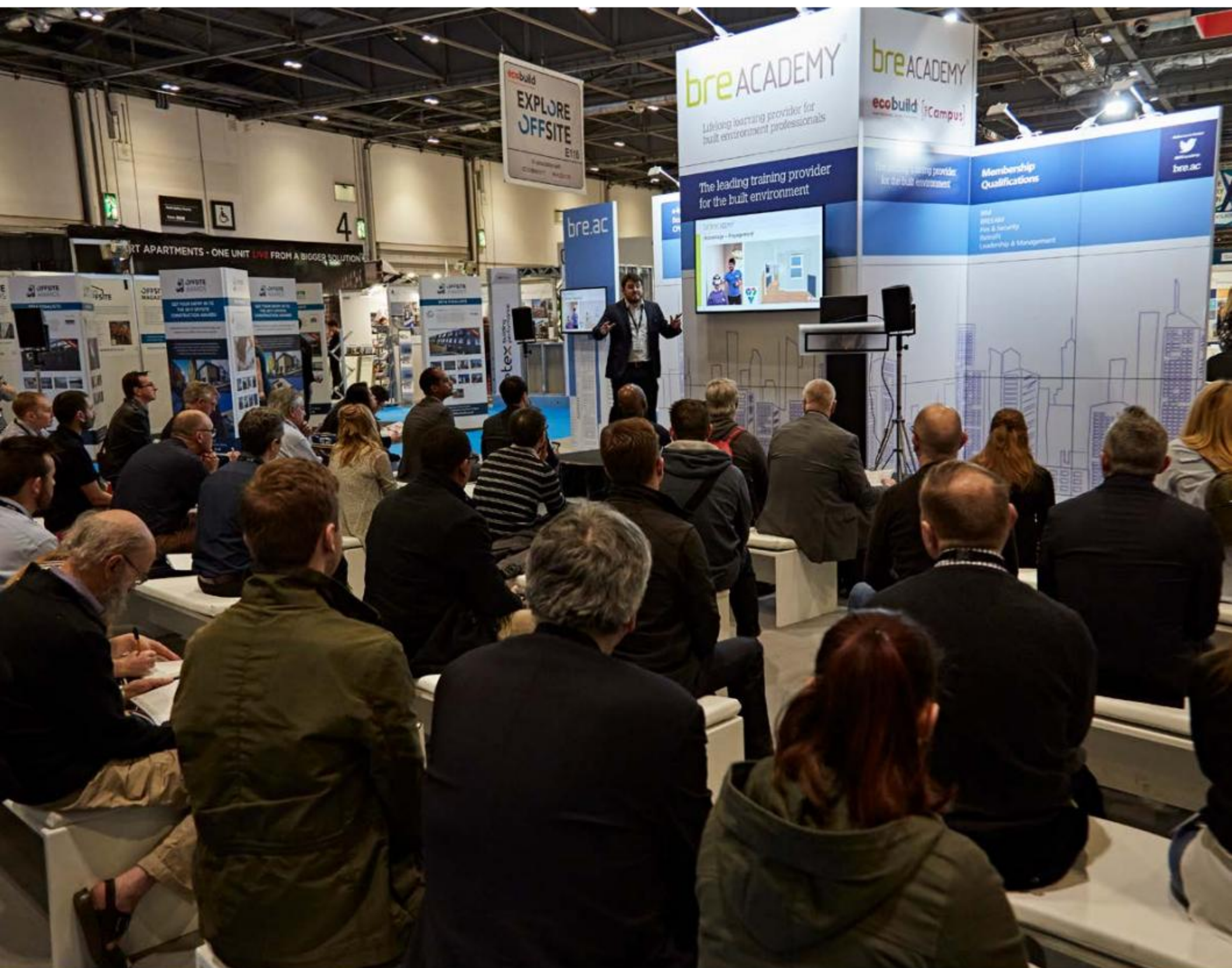
The Edible Bus Stop returns with The Hive, a pocket park highlighting biodiversity, biophilia, health and wellbeing. Another highlight is the WasteZone, curated by architect, academic and activist Duncan Baker-Brown, which will allow visitors to discover waste's potential.

The futurebuild districts

The conference arena and sustainability showcases are surrounded by the

futurebuild districts, each of which will act as an immersive and stimulating area where people, brands and companies will be able to network and develop profitable relationships. These include:

- District Energy
- Building Performance
- Infrastructure
- Timber
- Concrete
- Offsite
- Green & Blue Infrastructure
- Energy & HVAC



The dedicated focus of each district will encourage valuable relationship building and discussion around the big issues shaping the agenda in the built environment.









Key partnerships

ecobuild is working with a number of strategic partners who are contributing to the overall strategy and shape of the event to ensure it is wholly reflective of the industry's needs. Notable partners include the Considerate Constructors Scheme, the RIBA, CIAT, NLA, Bioregional, CIBSE, The Edible Bus Stop and the Edge. The event will also host the BREEAM Awards and the Offsite Construction Awards.

You can register for a free ticket at www.ecobuild.co.uk/register. Alternatively, share your thoughts and feedback about the event by emailing martin.hurn@ecobuild.co.uk.





- 
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Offsite
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Energy & HVAC
- 
Building Performance
- 
District Energy

Presenting the futurebuild districts

The 'must go' event in the construction industry calendar for forward thinking professionals and influencers. ecobuild 2018 will present the latest technology, the

freshest thinking and materials to keep you at the forefront of the industry. The centrepiece will be the comprehensive conference programme curated by top industry

figures. Surrounding this will be a series of futurebuild districts, each exploring a different aspect of the built environment.

Be part of something special
register now at www.ecobuild.co.uk

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Surfboard House

BFDO Architects



Five years after Hurricane Sandy devastated the cooperative beachfront community of Breezy Point, Queens, the project built upon a lot that had been reduced to sand is complete.

Houses in Breezy Point are set close together and linked by pedestrian paths; cars are confined to lots at the periphery. The client's site was unusually wide, with 68 feet of south-facing beach frontage.

Flood regulations required building at least six feet off of the ground, while co-op regulations put the maximum building height at 28 feet. The co-op also required a setback from the lot line of 32 feet at the lot's widest point.



The resulting building envelope was much shallower than wide, allowing nearly every room to have an ocean view. One of the primary design strategies was stepping the south-facing facade to allow windows to wrap corners.

That created diagonal sightlines up and down the beach, framing vistas and visually expanding the interior spaces. Angled roof profiles and ceiling finishes also direct the eye upward and outward.

Access to the house is provided in two places. A stair leading from the beach lands on a deck that spans the width of the house (and has become a prime party location). The west side of the house abuts a pedestrian pathway. A separate switchback stair gives access from that path to the side entrance, which slides between volumes corresponding to the living room and an indoor-outdoor bath/shower. Because it is accessible from outside, that sky lit bathroom it provides a place to rinse off and deposit bathing suits and towels before entering the house.

These two entrances flank the living room volume, which is defined by a raised cedar-clad ceiling, nine-foot tall south-facing sliding glass doors and a diagonally pitched roof. Across from the dining area, the kitchen abuts the stair to the second floor in an L-shaped alcove. The clients wanted separate zones for adults and children to live and entertain in. That was accomplished by locating the master suite on the main floor, so that the children can have the second floor to themselves.

On the east side, the master bedroom has wraparound windows looking east toward undeveloped beach frontage. A bathroom and walk-in closet buffer the bedroom from a parking lot to the north. A level change allows part of the deck to connect directly to the master suite.

Upstairs, three small bedrooms feel expansive thanks to their corner views. A rec room opens onto a covered deck. The fiberglass-wrapped roof culminates in a large “surfboard-like” overhang that protects the first floor from solar heat gain. White cedar cladding wraps the building and roof overhangs and encases the sides of the deck, helping the house fit in despite its newness.





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PHOTO CREDITS/ PHOTOGRAPHER(S):
FRANCIS DZIKOWSKI/OTTO

A world of innovation for a world of change

Celebrating an impressive 32 years, kbb Birmingham, the UK's largest and most established kitchen, bedroom and bathroom event, returns to the NEC, Birmingham from 4th – 7th March 2018.

Following the success of last year's theme, Future, kbb continues to forecast forthcoming trends and challenges facing the UK kbb community, identified by content partner, AMA research. Bringing you a world of innovation for a world of change. The four trends are:

1. **Society:** Evolving customer behaviours alter the meaning of lifestyle design, e.g. DIY conscious early adopters outsource cutting edge design and smart space innovations fuelling the installer skills shortage
2. **Smart technology:** Be it future or fad, 'smart' is creating new possibilities for those on both sides of the debate, e.g. virtual reality transforms showroom buying behaviours and voice recognition modifies our use of space
3. **Disruption as opportunity:** 'Disruptors' change the construction landscape, heralding new design opportunities, e.g. uncertainty surrounding Brexit stimulates house price stagnation driving a growing refurbishment market fuelled by mature, equity-rich homeowners undertaking big ticket kitchen and bathroom projects
4. **Materiality:** UK consumers demand higher quality products and materials, e.g. worktops continue to dominate the kitchen furniture market driving innovation and diversification in the surfaces sector

The Innovation Awards, in partnership with blum, aim to discover brands that are producing products, methods and ideas to help shape the future of the industry. The award entries will be judged by an esteemed panel of judges including kbb's Brand Director, Joel Butler - winners will be announced at the show.

This year's kbb Retail and Design conference will provide practical advice to grow businesses in a world of change. Combining topics such as: How to... survive a recession and come out stronger, How to... design the 4G bathroom, How to... keep up with the latest materials and colours, plus much more.

Kbb Birmingham 2018 sees the return of great British companies along with new international exhibitors including, Smeg, Sensio, Perrin & Rowe, Villeroy & Boch, Crosswater, Karonia, Caple, Franke, Nolte, Blanco, Samsung, Dansani and Blum.

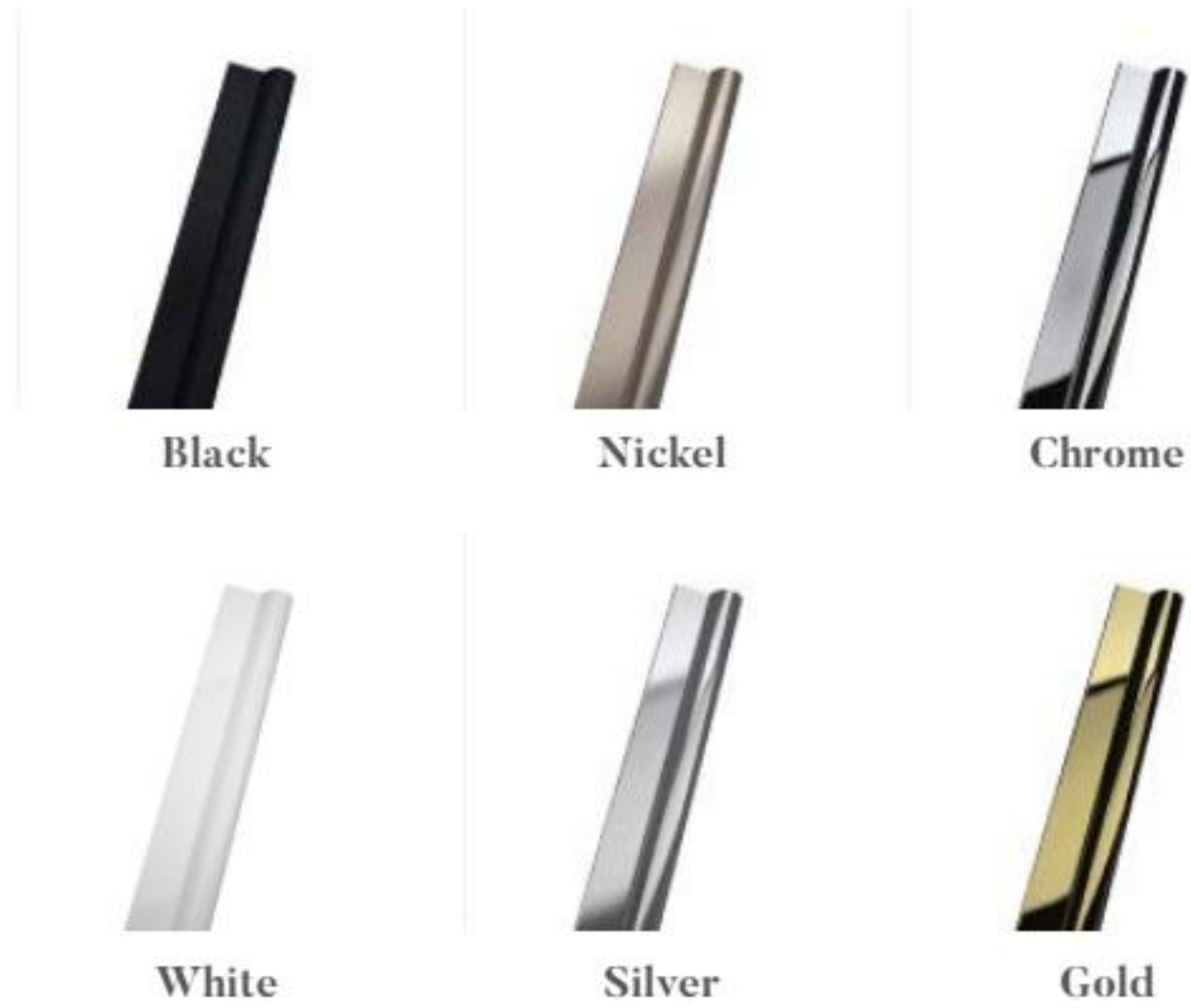
Brand Director at kbb, Joel Butler commented, "I'm really looking forward to another successful year at kbb Birmingham, and particularly how the community will explore and learn from this year's theme. We're welcoming a range of new and returning exhibitors, all of which will showcase a high calibre of products, methods and ideas. I would recommend visitors try and spend more than one day at the show."

Join the conversation with 16,000 industry buyers. Visit www.kbb.co.uk for further information.





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After care , After showering Novellini recommends that you wipe down the glass using a soft cloth or squeegee, only clean Novellini products using our specially formulated cleaner "Clean it" which can be purchased through our dealers and directly with Novellini UK.

We hope you enjoy your Novellini product for many years to come, please visit our website for more information and other exciting products.

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Sleek & sophisticated new looks from Hudson Reed...

Hudson Reed has extended its popular 'Fusion' bathroom furniture collection by introducing a new family of units – the Fusion Gloss Grey range.

Finished in a striking high gloss, dark grey tone, the new Fusion Gloss Grey range is available in fitted and combination furniture configurations including full depth, slimline and L-shape designs, making it perfect for compact bathrooms, en-suites and cloakrooms.

Joining five other on-trend finishes: Gloss White, Grey Avola, Driftwood, Hacienda Black and Natural Oak, this new gleaming gloss door widens the appeal of the Fusion bathroom furniture range - one of Hudson Reed's best-selling lines - satisfying the

growing customer demand for high quality, design-led bathroom furniture.

Supplied rigid for quicker and easier installation, most of the Fusion range is made in Britain by Hudson Reed's master furniture makers, producing a high specification quality product that is built to last and highly durable. Features, such as soft-close doors and hard-wearing drawers come as standard and the range has been innovatively designed to maximise storage space.

Examples include the L-Shaped unit which ranges in width from 1000 to 1500mm, incorporating reduced depth base units (just 255mm projection) and cleverly designed L-shaped basins integrated within the worktop – perfect

for small or awkward sized bathroom spaces.

Featured in Hudson Reed's new 'Simply Beautiful' 2018 bathroom collection, the Fusion Gloss Grey range comes with a 5-year guarantee for complete peace of mind and its clean crisp lines and flexible storage options all add up to make this a very appealing and versatile new range. As well as vanity, WC, drawer, base, wall and tall tower units, there is a choice of coordinating Fusion accessories, such as mirror units, bath panels, plinths, handles, worktops, ceramics and lighting.

For further information, contact Hudson Reed on Tel: 01422 417100 or visit the web site, www.hudsonreed.co.uk

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Surfaces formed of natural materials like stones, granites and woods are gaining popularity in kitchen trend guides as the ideal worktops. TrueScale captures the subtle variations and patterns found in natural materials but eliminates the high cost of sourcing and maintaining the genuine article.

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Wetrooms Online are pleased to introduce the fully tile-able WetBase™ linear wet room tray. The linear drain of the tray can be fully tiled to match the surrounding tray and floor, resulting in a sleek, uniform looking floor that is not broken by drain grates.

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Visit www.wetrooms-online.com to view the range, call Freephone 0800 280 8008, or email info@wetrooms-online.com for further details.

Battle of the surfaces: laminate vs quartz

Over the last year, there has been an increase in the number of consumers upgrading from laminate to quartz surfaces, a trend predicted to continue.

Stephen Moss, managing director of Maxtop Quartz Ltd, said "It's become commonplace for installers to have to choose between affordability and quality when it comes to kitchen surfaces and we're here to provide a solution to that.

"Quartz is often seen as a luxury kitchen surface, perhaps out of many people's price range, but the introduction of Maxtop Quartz to the UK market means many can greatly increase the grandeur of their kitchen for a relatively small cost implication."

For more information about Maxtop please visit www.maxtopquartz.co.uk or the company's Facebook and Twitter pages. Alternatively, call 0161 224 0333 or visit the Maxtop YouTube page to watch a short installation video.

A COMPARISON OF POPULAR WORKTOP MATERIALS

PROPERTY	LAMINATE	QUARTZ	STONE
BUDGET	✓	✗	✗
NATURAL STONE LOOK	✗	✗	✓
INSTALLATION	✓	✗	✗
WEIGHT	✗	✗	✓
PROFILE	✓	✗	✗
SCRATCH RESISTANT	✗	✗	✓
WATER/STAIN RESISTANCE	✗	✓	✓
DURABILITY	✗	✗	✓
DELIVERY	✓	✗	✗
STANDARD TOOLS	✗	✗	✓

THE MARKS OUT OF 10?

LAMINATE: 6 | QUARTZ: 4 | STONE: 10

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This year, for the very first time, we have brought out a 'visible' product to complement our Fundo Primo, Fundo Plano and Fundo Riolito neo walk-in shower ranges: a tailor made ready-to-fit surface, perfectly adapted to the slopes of our shower elements. As a 100% Fundo system component, the new wedi Fundo Top can be installed particularly easily to the corresponding Fundo floor element and can also be flexibly adjusted to suit requirements on site.



-  100% waterproof
-  Non-slip surface=R11
-  Hygienic and easy care
-  Safe to handle & cut on site
-  100% Fundo system component
-  Load-bearing and wheelchair accessible
-  Installation advantages save time and stress



The one piece, seamless element is made from a 6mm thick, high-strength mineral material and is currently available in 4 colours: white, beige, grey and anthracite. It is wheelchair accessible and its non-slip surface (R11 equivalent) provides firm footing ensuring maximum safety in the shower for the whole family. The Fundo Top also offers a comfortable surface temperature at all times, so paired with the already excellent insulation properties of the wedi Fundo walk-in-shower elements, it further enhances the showering experience for all.

Furthermore, the high-quality durable material has an antibacterial effect and its surface is dirt-resistant thus it's not only hygienic but particularly easy to clean, and thanks to the practical full-body colour, over time, any surface scratches can be easily sanded down!

The wedi Fundo Top truly is an ideal, elegant alternative to tiling without compromising the quality or the watertightness of the finish.



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Kooshk House

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Being far from nature perhaps is one of the bitter phenomenon in nowadays modern lives. Living in spiritless and compact apartments evokes the need of keeping in touch with nature and being far away from cities chaos.

The small city of Kooshk on the west side of Isfahan and the and its surrounding beautiful gardens are always a good choice for experiencing a desirable lifetime.

In this project, our client wanted to build a new house on the old structures remained in his garden, for two main goals:

- Experiencing a life on the nature neighborhood.
- Build a suitable place for weekends gathering and spending time with friends.

So in first steps of thinking, the client's enthusiasm for nature led us to destroy the borders between inside and outside of the house.

But because of the garden situation and client's demand to keep inside totally safe from outside visual dominance, especially in ceremony times, it was not possible to have the maximum transparency in all times.

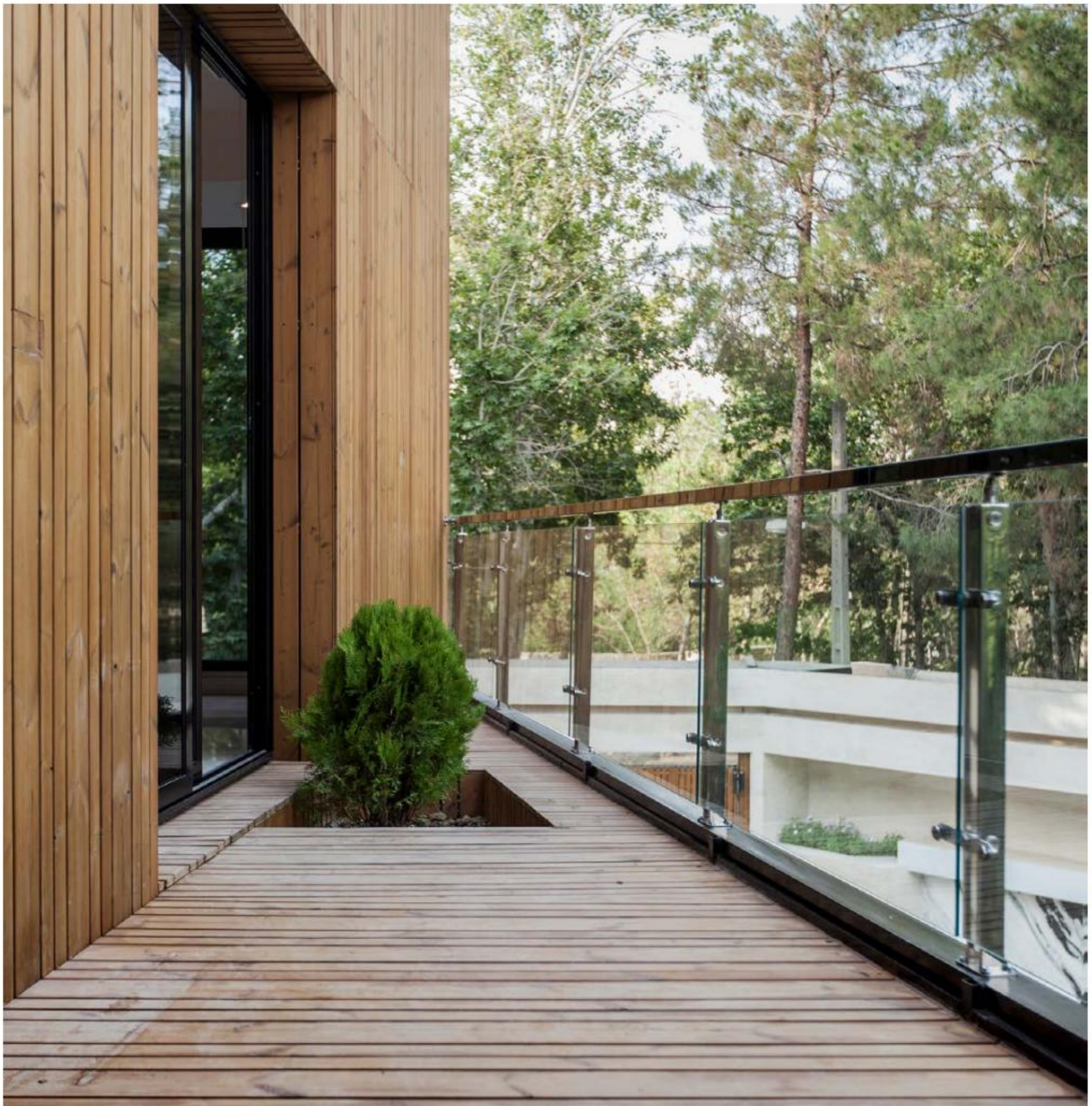
Our solution for solving this conflict had two parts :

- Continuity of nature from outside to the inside of the house.
- Having some flexible facades.

Therefore while being inside nature our house has a small nature inside!


And it can open its closed face partially or entirely to the outside whenever it is needed. The main geometry of building's volume is a result of a rotation between garden main direction and entrance direction. As the house tries to turn its face toward guests while entering to say welcome!

And we had no better place inside than the conjunction of house two main direction for emplacing our small nature and creating our KooshkKhaneh's heart.



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Ancon to launch new products at Ecobuild 2018



ANCON will be launching its latest fixing innovations at Ecobuild, 6th – 8th March, London ExCeL, stand number C62. Double winner of the Queen's Award for Enterprise and holder of a string of innovation and product development accolades, Ancon will continue to enhance its range in 2018.

Ancon's Ecobuild stand will focus on structural fixings that are opening-up new possibilities in zero and ultra-low energy construction by minimising thermal bridging, including its insulated balcony connectors and

ultra-low thermal conductivity cavity wall ties. It will also showcase a brick-faced support system that allows designers to achieve exciting masonry façade aesthetics, quickly and easily on site.

Heading up the displays will be Ancon's unique, BBA-approved, multi-award winning Teplo wall tie range. Manufactured from pultruded basalt fibres set in a resin matrix (0.7W/mK).

For more information, call Ancon on 0114 275 5224 or visit www.ancon.co.uk.



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For further information on the Lakeland Paints colour matching service and their range of paint products visit www.lakelandpaints.co.uk or email sales@lakelandpaints.co.uk or call 01524 852371



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Visqueen's New Gas Barrier Membranes Provide The Ultimate Solution For Brownfield Developments

Visqueen Building Products – part of RPC bpi recycled products – has launched a new range of Ultimate Gas membranes for protection against dangerous gases and chemicals, in compliance with the latest standards for building on brownfield or contaminated land.

Utilising Visqueen's advanced barrier technology the new membranes are the result of an extensive R&D programme and testing regime to ensure the membranes are both the best in class and comply in particular with the exacting requirements of both BS8485:2015 and CIRIA C748.

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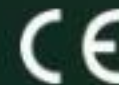
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'New CPD from Aluprof'

'Thermal Design Choices for Aluminium Fenestration Systems' is a new RIBA approved CPD from leading commercial systems supplier, Aluprof. The CPD aims to give specifiers the knowledge they need to specify the correct systems and their thermal characteristics on a 'per project' basis.

Aluminium systems have evolved from the solid profiles of the 60's and 70's through the resin 'fill and de-bridge' methods of the 80's and 90's to the sophisticated polyamide thermal breaks of today. Whilst thermal calculation can determine a particular U value, does the structure it is being fixed into retain the high performance of the product or will it cold bridge and potentially cause issues? How do you best interpret a thermal simulation graphic to choose the best product? Is solar gain, 'friend' or 'foe'? These are questions the CPD will seek to answer.

The CPD will be delivered by one of Aluprof's experienced Specification Support Team who will be on hand to answer any questions on systems and project applications that specifiers may have. With aluminium systems now achieving Passivhaus levels of insulation it is important to understand how these systems achieve such



Thermal Design Choices for Aluminium Fenestration Systems



levels of insulation and how the glazing and structure need to be designed to offer clients the most appropriate solution.

Aluprof systems are increasingly being specified on a wide range of residential and commercial projects across the UK. Systems are designed, fabricated and installed by selected, specially trained companies to ensure each fabricated product meets the Aluprof exacting standards.

Further information is available on the company website at www.aluprof.eu and specialist advice is available directly from Aluprof UK offices on 0161 941 4005.

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GARADOR'S NEW E-POD SYSTEM TAKES UNCERTAINTY OUT OF DELIVERY



The UK's leading garage door manufacturer, Garador, has invested in a new electronic proof of delivery (E-pod) system in order to offer a more informative and accurate delivery service. Through text messages to a mobile phone or by email, the E-pod system will provide customers with automated notifications of delivery times. They will also be given full access to a quick and clear tracking system, which will be regularly updated to reflect any change in delivery times.

The timing of delivery of large items such as garage doors can be a crucial aspect in a build. With Garador's new E-pod system customers will be kept right up to date with accurate indications of real time delivery. In addition to this, the E-Pod system is also a greener solution as it is electronic and does therefore not require the printing of hundreds of sheets of paper, as a proof of delivery. Find out more about Garador at www.garador.co.uk or call **01935 443799**.



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House HC

Wim Heylen

The terraced house is located in a housing project from '58 in Wondelgem, Belgium. The project has the typical combination of identical row houses with alternately mirrored ground plans. All of them have a single-storey extension and a semi-private road at the back of the plot connecting the various garages and garden storages. Over the years many residents have filled up the open space between the extensions with verandas and secondary buildings, and by thus have lost relationship with the exterior space.

For this reason, the veranda, a secondary extension and the garden storage of this rowhouse were broken down. The building was returned to its original state as the starting point of the new volume. It connects with the main structure across the entire width of the plot, but then works towards the line of the original extension and opens again towards the garden. Due to this compression and decompression of interior and exterior space, the house unfolds into the garden and brings green and daylight into the interior, without the use of light domes or patios.





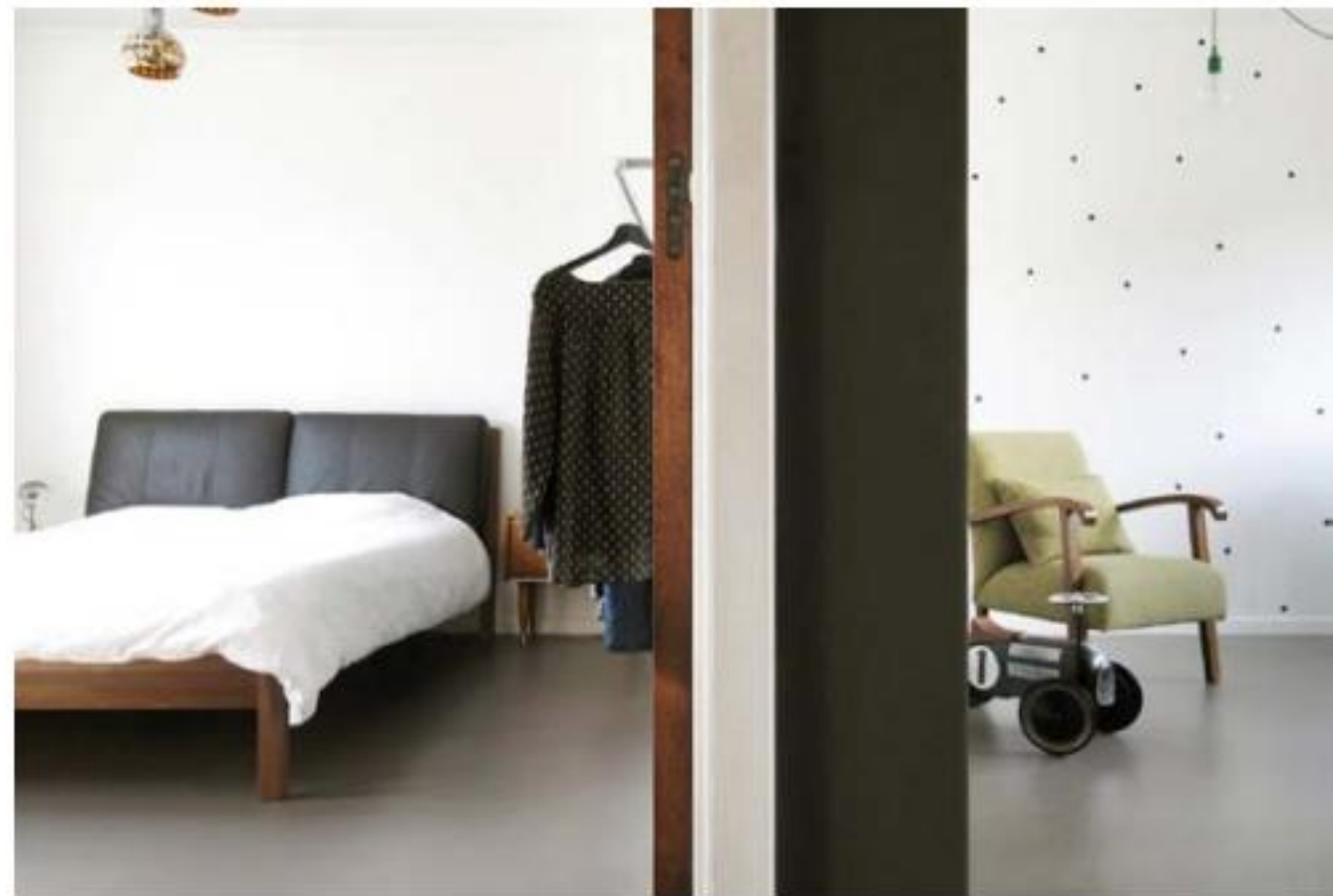


Because of this configuration, the interior space could be orientated as desired: the dining area turns towards the west to capture the evening sun. The terrace is a continuation of this movement: it flows from the interior floor into a path to the dirt road.

The total experience differs from the expected look and feel of a row house through the wide panorama offered by the unfolded façade: it is not a row house with tunnel view, but one with different spaces in an open relationship with each other and the exterior.

The architect deliberately chose to preserve the atmosphere of the existing home. Kitchen, dining room and bathroom were the focus point of the renovation, the remaining spaces could maintain virtually unchanged. On the ground floor, the new extension is in symbiosis with the existing house; rather than making a break with the past, a reference was made to specific materials and elements to bring the past and present together. The bricks of the demolition were recycled and crown the concrete structure as a continuation of the back façade of the main building. The flagstones of the terrace and the kitchen breathe the spirit of '58.

In the same sense, the plan of the upper floor remained largely preserved, but the bathroom was moved to a new, broader location. This space is further increased visually by a parallel placement of mirrors that create an infinite replay of reflections. Behind one of these mirrors a wall curves around the bath creating a shower space.



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Experience a Purple Patch with Vicaima

When it comes to inspiration ideas for interior doors, few companies bring the wealth of fresh design and stand out performance as Vicaima manage to do so every year. Entering a purple phase for their much loved Interior Door Selector (IDS), the 2017/18 edition has surpassed even Vicaima's high standards, with the introduction of no less than six new ranges and a world of new colour and finish options.

Encompassing 80 stimulating pages, this latest edition is their largest IDS yet and is certain to spark creative interest for their many markets; including housing development and hotels, together with numerous public and private sector applications.

Available both in printed format and for download via the Vicaima website, the new Interior Door Selector sets out product ranges in a clear and easy to navigate format. Each range includes quality colour imagery to illustrate the products design potential, together with key facts to ensure the chosen model is right for the project. For specifiers with a keen

eye on budgets, the IDS also includes a useful Price Indicator Tool, which enables easy price comparison across different ranges, making final door selection so much simpler.

Among the many new and exciting ranges making their first appearance in the Vicaima 2017/18 Interior Door Selector are some exciting door ideas, including: M Range, a refined take on the Classic panel door in a wide section of lacquered colours; EX70 and EX20, two new collections that offer striking grain direction and a fusion of face finishes; The Rustic Collection, real quarter cut Ash veneer in a selection of four new stain finishes to give an open grain appearance. These and many more on-trend and visually stunning finishes make up a truly visionary compendium of interior doors for every application.

To download your copy of the new 2017/18 Interior Door Selector, visit www.vicaima.com and select brochures, alternatively call 01793 532333 to reserve a printed copy or for further information.



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Ideal Heat Solutions

Ideal Heat Solutions has announced that it is in the process of building new temporary packaged boilers to cope with the high demand it has experienced in 2017.

The new boilers will be fitted with technology such as the Trend 963 Supervisor, which allows Ideal Heat's operatives to monitor the performance and fuel consumption for its temporary boilers remotely, increasing efficiency and driving costs down for its customers.

The company will also be looking to introduce boiler contingency plans to new and existing customers later in the year, which will complement its existing emergency response hire services.

Ideal Heat Solutions can be onsite within 2 hours of receiving an emergency boiler hire enquiry.

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Further information about Watts Industries UK can be found by visiting www.wattsindustries.co.uk/



DRU Maestro 75 Tunnel gas fire reveals a world of possibilities for home improvers

DRU has released an exciting new addition to its Maestro collection of contemporary gas fires.

Maestro 75 Tunnel is spectacular 'see-through' fire that can be installed into false chimneys, room dividing walls and other architectural features.

With modern homes being increasingly open plan, it provides a solution for home owners as a room divider or to create a stunning focal point that can be appreciated from both sides of the living space.

It features the impressive DRU Dynamic Flame Burner system, which generates exceptionally high and dense flames, together with the exclusive DRU Eco Wave app, allowing the owner to control the flame pattern and gas consumption from a tablet or smartphone.

With the fire being constructed almost entirely from glass, its appeal is further enhanced by Clear View non-reflective glass, which renders the glass almost invisible.

In addition, the Maestro 75 Tunnel includes the exclusive DRU Easy Release door system, allowing easy access to the interior of the fire for routine cleaning and maintenance.

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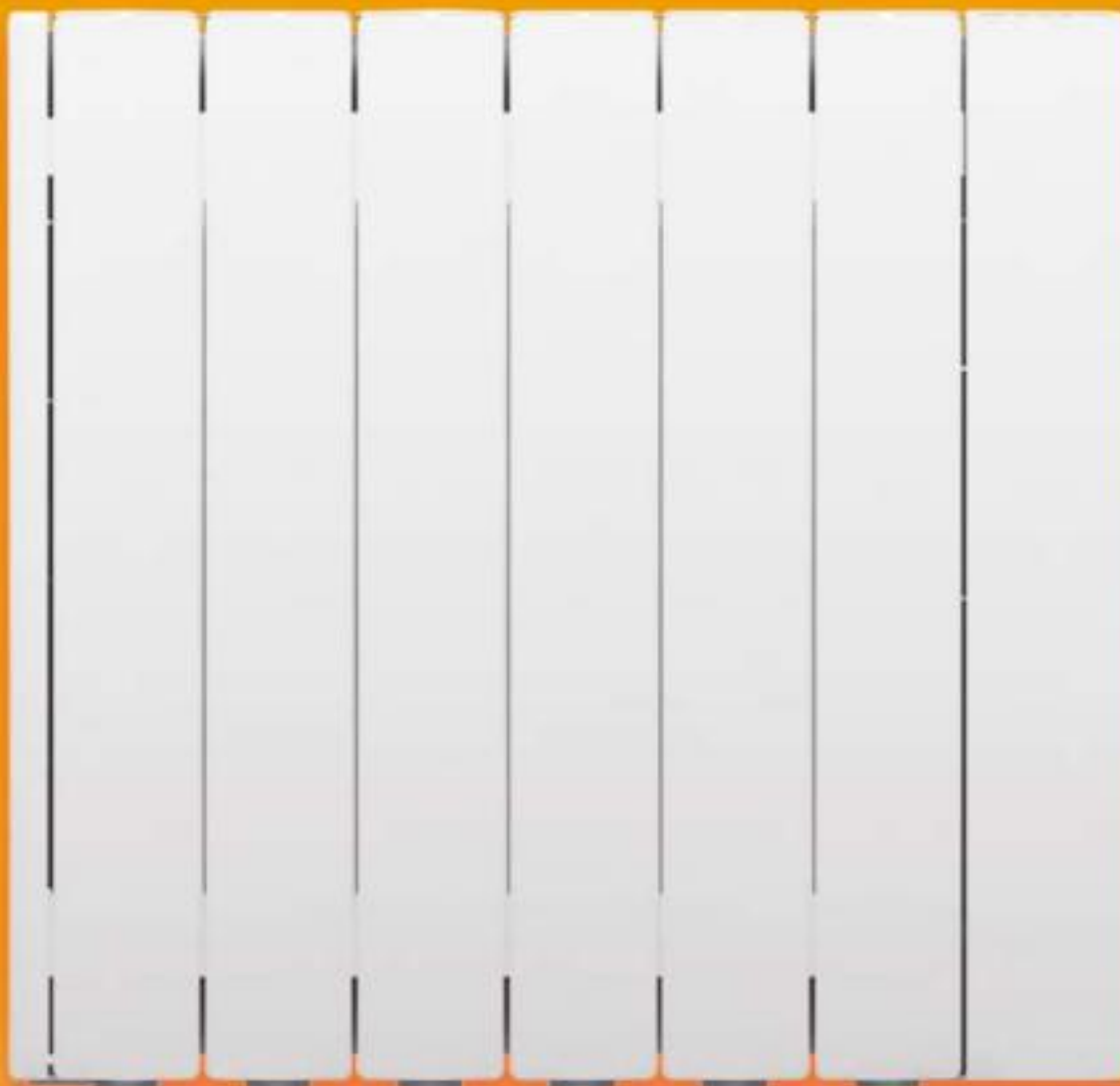
With conventional convection heating, such as central heating or a gas fire for example, the air in the room is heated up and circulated around the room, creating cold spots and dust. Infra red heaters produce no carbon emissions, are 100%

efficient and can save up to 70% of your current heating and energy costs.

Infra red is an extremely efficient form of heating because it is heating you and not trying to heat the air, this will be warmed as a secondary effect. Also, once the panel reaches optimum temperature, it will modulate on and off to maintain temperature, therefore drawing less power.

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Temperature set points, control modes, holiday dates and time schedules can be set up easily and intuitively from the central station. The station can be fixed to a wall or mounted on a central enclosure within a utility cupboard and is provided with a 7" screen.

When coupled with the NetMaster 2000 and remote FCU-503 controllers, the final system is a completely networked and energy efficient solution at an extremely attractive price point. Remote access capabilities can also be added to the system by downloading the Titan App onto a smart device.

The FCU-503 controllers, which are supplied fully pre-configured for the project,

hold all the control logic for the room. This removes the risk of a single point of control failure on the network, whilst effortlessly managing a range of functions including heating only, cooling only, combined heat/cool FCUs and combined FCU cooling/underfloor heating.

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An integrated temperature sensor can also be supplied on the RDU-Touch to remove the need for remote room temperature sensors. The RDU-Touch has an attractive and intuitive touch screen interface and is offered in a number of high quality finishes. Project branding or bespoke features can also be added to the screens to give that extra dimension to the user experience.

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N House

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The project sits in a quiet residential neighborhood northeast of Tel Aviv. It is a single-family house that shares a party wall with its neighbor. The brief was to design a single family dwelling for a young family with four children. The client requested a house with a small footprint, that would create a large garden for the kids to play.

The site is elongated and has a relatively steep topographic change between its front and backyard. Therefore we faced a challenge in fitting all of the necessary programs whilst maintaining a pleasant footprint. In order to break the mass of the house and provide a more gentle footprint, we proposed to divide the house into a series of cubes with a courtyard separating them. This would allow light to enter into more spaces within the home and would break the mass of the facade.



It also helped to break the spaces within the house into square rooms. In addition, the volumes that subdivide the space help to define the internal program by differentiating between functions.

The first floor is interconnected by a bridge which connects the master bedroom and children's rooms. This helps create privacy for the master bedroom suite. In addition to the interior, the garden was an integral part of our design helping to create a series of spaces each with its individual character. We believe that the garden should be experienced within the house as well as help facilitate additional activities. There is a small patio between the car park and house, which is a place to drink coffee or tea or read a book.

There is an additional patio in the children's playroom which creates an arts and crafts space in the basement whilst providing natural light in the space. The rear garden has three areas, an outdoor salon adjacent to the internal salon. An outdoor dining area and kitchen for entertaining guests. There is a raised terrace which creates an elevated area with views of the house and garden. The materiality of the space consists of white render, exposed concrete, black aluminum, oak wood, and Natural Stone.

This material palette is visible throughout the house. It helps to stitch the spaces together. The choice of the white render is a climatic one, as we have 300 days of sunshine. Therefore we chose a material that would blend into its surroundings as well as not attract unnecessary heat and sunlight. The use of external louvers and large openings to the North create the ability to enjoy the view while not being blinded by the sun.





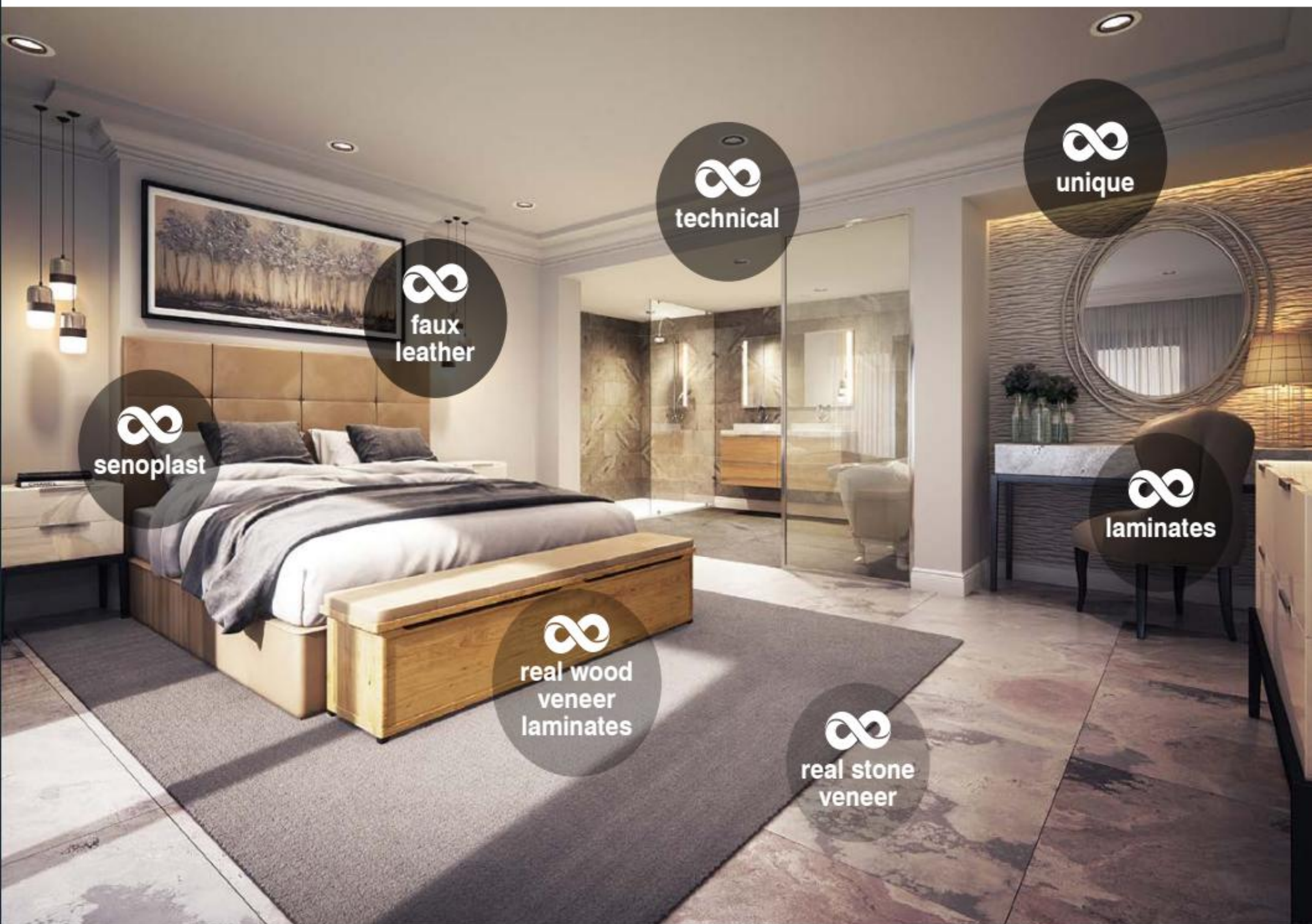


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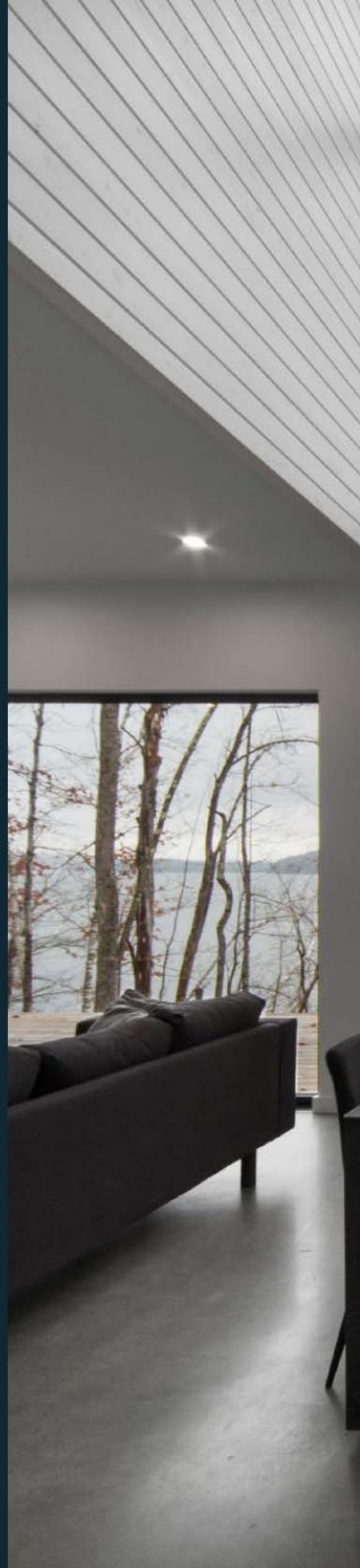
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Bécassines Cottage

Atelier BOOM-TOWN

Located on the shores of Lake Memphremagog in the Municipality of Pottton, this cottage with four large bedrooms and a dormitory comfortably accommodates more than a dozen people, enabling them to appreciate the location thanks to its wide openings onto the surrounding nature. The cottage consists of the blending of four cubic areas around a central space through which the site can be crossed from the arrival level to the lowest level leading to the lake.

A large terrace makes it possible to enjoy the wooded area through which the lake lets its mysterious presence filter through. A large staggering balcony thanks to an invisible guardrail at its end juts out towards the Memphremagog below from the master bedroom and protects a part of the terrace beneath.

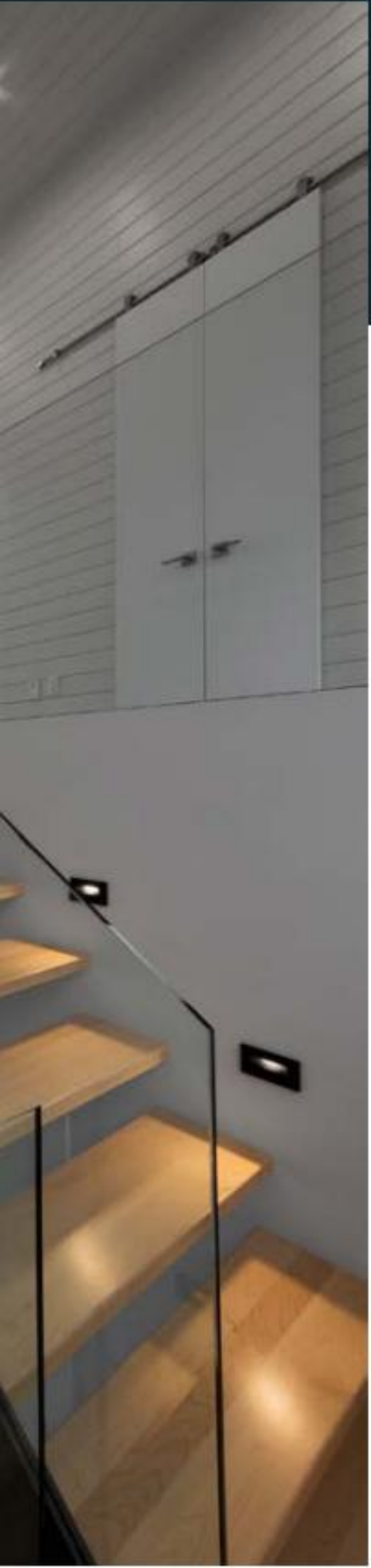






A large folding door at the base of the curtain wall facing the lake makes it possible to enlarge the dining room and to receive numerous guests in good weather.

The cedar and spruce wood coverings distinguish each of the areas from the composition. White wooden paneling covers the central core and extends under the porch of the main entrance to accommodate the occupants. The colour palette for the cottage varies from dark and brighter grays to white. Concrete, glass, stained wood, porcelain, marble, and quartz represent most of the materials.





Plaswood launches gates to complement extensive fencing range

Plaswood has launched a range of gates to complement its existing range of environmentally friendly fencing products.

Made from 100% recycled plastic, Plaswood gates offer a smart, stylish and green alternative to traditional timber gates. Unlike timber, Plaswood is impervious to the influence of water or damp and therefore will not rot, splinter, crack or degrade with age, offering a maintenance free alternative to timber products.

Available in jet black and earth brown the single and double gates come with a galvanized frame, along with steel posts allowing the gates to be set directly in to the ground.

The gates can be finished with flat, round, chamfered or pointed tops and supplied with a locking system and access from both sides or inside only for increased security.

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New Pocket Commercial Landscaping Directory from Charcon

Charcon, the commercial hard landscaping division of Aggregate Industries, has published its 2017 trade directory in a new, handy 49-page pocket-sized, spiral-bound format for complete ease of use.

Mike Davies, Sector Manager for Charcon, comments: "The Charcon product range provides all the necessary materials to furnish a hard landscaping scheme, from large public realm projects to educational and health facilities. It is therefore vital that we provide our customers and stockists with clear and concise product literature.

"We trust that our new pocket directory will guide customers to the best products for the application in question, as well as any complementary products, such as stepped units or bespoke items, that will enhance the project."

To request a copy of the 2017 Charcon commercial landscaping directory or portfolio, please contact 01335 372 222 or email landscaping@aggregate.com.

To browse the Charcon range of products online, visit www.charcon.com



Hartley Botanic

In its latest partnership with the RHS, Hartley Botanic has unveiled a new, iconic glasshouse commission to form the centrepiece of the Royal Horticultural Society's new edible gardens at RHS Hyde Hall. Hartley Botanic's engineering expertise, honed over 79 years, has achieved a light yet strong structure of a size and scale which generally requires steel supports to hold construction in place.

As in every Hartley glasshouse, each pane of glass has individual, bespoke frames and there is no glass to glass contact. Every part within the glasshouse, down to the smallest bracket and extrusion, is on record and drawn on file for easy remanufacture. In this way, Hartley Botanic can easily support the glasshouse's ongoing maintenance and repair.

Hartley's contact details
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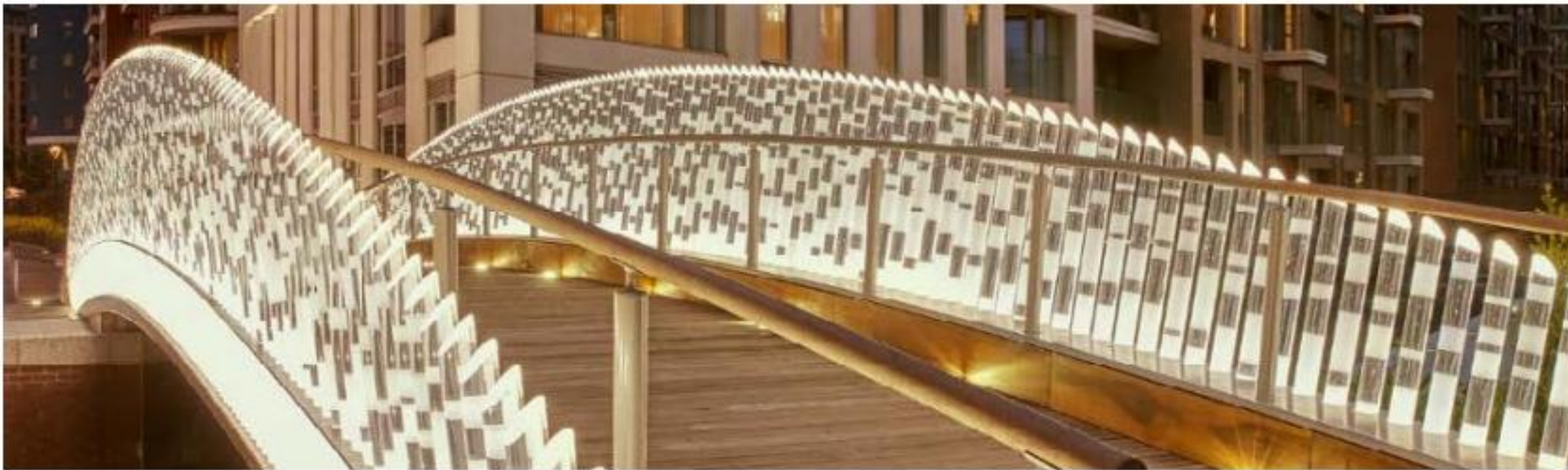
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HIGH-SPEC BRIDGE FOR LUXURY APARTMENTS IN CHELSEA



To complete the hard landscaping around the Chelsea Creek luxury apartment development, London developer, Berkeley St George needed a statement bridge.

The 24m long bridge comprises a deceptively simple, elegant concept incorporating acrylic rods into the painted steel frame at close centres which, when lit from their base, provide an illuminated enclosure, while a stripped down secondary internal handrail provides pedestrian restraint.

CTS were appointed to undertake design, manufacture and installation and offered different structural options to best achieve the architectural intent, resulting in "hidden" structural supports to minimise beam depth. They worked closely with Elite Landscapes, the Principal Contractor, to ensure all trades were coordinated to deliver a successful scheme.

To achieve the desired simple lines, careful detailing was required to house the lighting rods and conceal their

power supply and driver units discreetly. Precision fabrication was needed to realise this ambition.

The final result is a stunning illuminated bridge that provides a stylish focal point over the meandering waterway the Chelsea Creek development.

If you need a bridge as a focal point in your scheme contact CTS Bridges for a full design, build and installation package.

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Garden House Design

About us

Garden House Design is an award-winning Sussex based company established for over 20 years, specialising in garden design, landscape construction & outdoor styling, for both domestic and commercial clients.

Passionate about creating gardens of all shapes and sizes, from urban courtyards, to rural spaces, they have the skills and expertise to create perfect outside spaces to quite simply "live outdoors" for even longer.



The pleasure of comfortable outdoor living

Thanks to the robust modern design of their RENSON® Louvered Roof Terrace Covers, they offer the perfect solution. The range of covers have never been so stylish, comfortable or practical. Even when the weather's not so kind, there's little to stop you living outdoors.

These infinitely customisable terrace covers offer shelter from summertime showers and provide shade on sunny days through the remote controlled rotating roof blades which open and close at the touch of a button.

The roof features water channels, that in the closed position, seamlessly drain rainwater away and out through an inbuilt drainage system in the structures columns.

The RENSON range of terrace covers are designed to complement all types of architecture and with both freestanding and wall-mounted options, there really is a RENSON structure to suit every home.

Multiple structures can also be joined together to provide an even larger covered area.

The addition of glass sliding doors, retractable side blinds, louvered wooden panels or aluminium shutters, make for an outdoor solution that can cope with the ever-changing British weather, all whilst allowing the user to live outdoors for longer.

Available in a range of sizes, a choice of RAL colours and with added extras, such as lighting, heating and speakers, clients really can create their very own unique outdoor space.

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Returning to Grand Designs – Stand G220

Garden House Design return to Grand Designs Live again – bringing with them their 2017 collection of innovative and unique outdoor products, and showcasing a RENSON Camargue with all the trimmings. All products are also on permanent display in their outdoor showroom in Ferring, West Sussex.

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Proteus Facades Thinks Outside The Box At Northampton University

Proteus Facades has helped create a striking new feature on The University of Northampton's Riverside Campus in the form of a 26-metre flue shaft on its new £6.9m biomass plant, completed with Proteus cladding panels and an integrated LED screen by digiLED.

Further visual interest was added to this project by the juxtaposition between the Proteus SC perforated panels specified for the flue stack and Proteus HR solid cladding panels used to create the unusual vertical saw-tooth façade design on the Energy Centre's main building.

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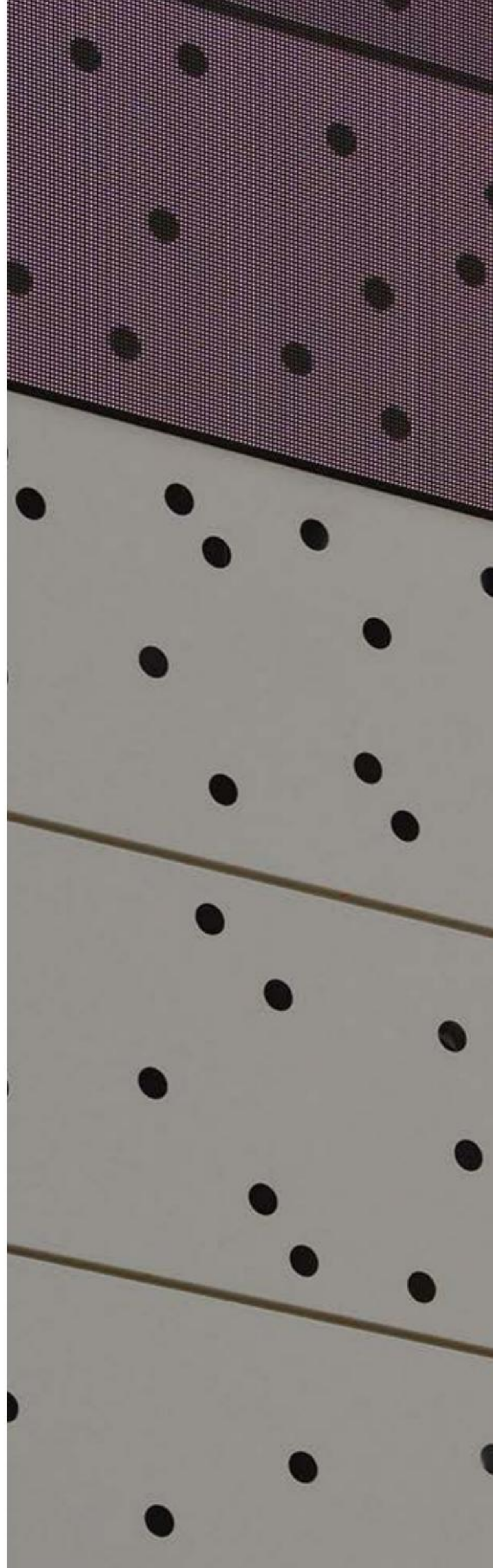
This was a challenging project for MCW architects because the designers had to work around the constraints imposed by the requirement for a large 'box' like structure to house a 1MW biomass boiler, four 4MW gas boilers and a 120m³ thermal store.

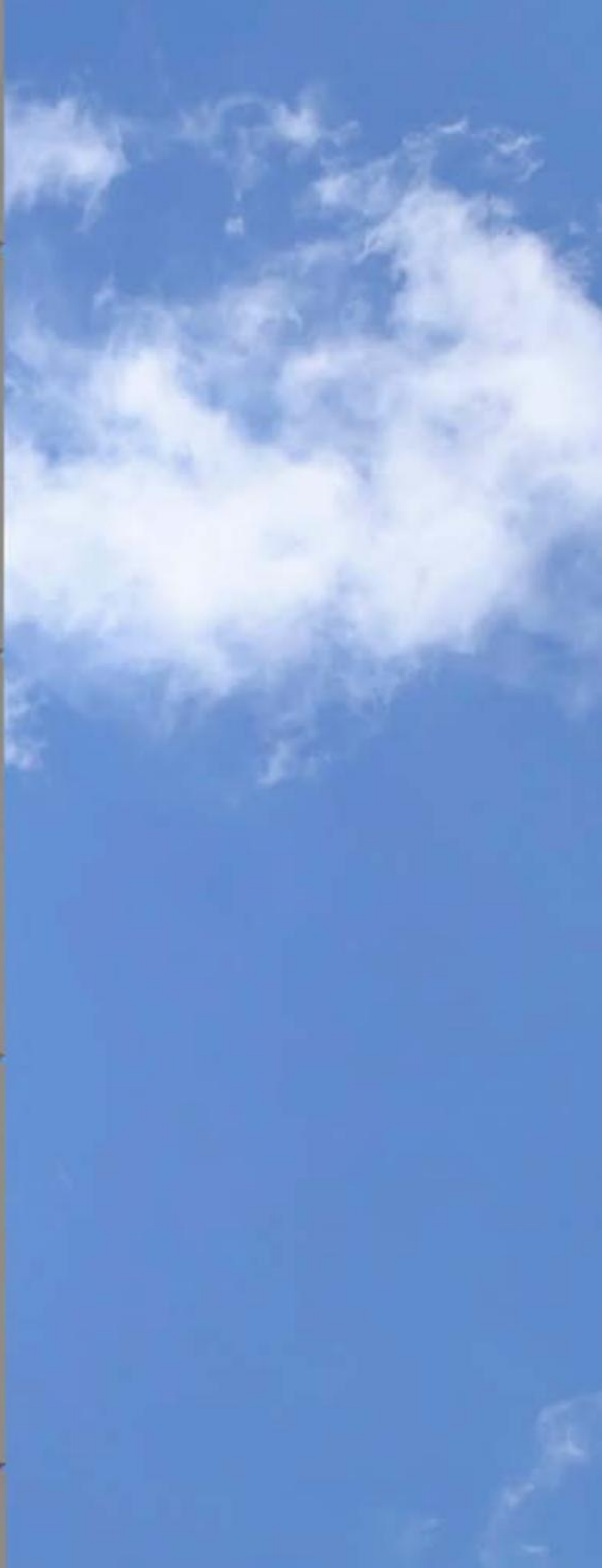
Proteus HR solid metal skin with honeycomb core was used around the thermal envelope of the building combined with polycarbonate cladding in a striking internally lit vertical "saw-tooth" arrangement. The lightweight, exceptional flatness, strength and rigidity of Proteus HR panels allowed the architects to develop a large modular cassette system (2500x1000mm), which was replicated around the building providing uniformity across different façade elements.

An equally engaging aesthetic was achieved on the 26m high stack by wrapping it in the Proteus SC perforated 'skin', creating a sense of weightlessness in what would, at the height of three London buses, have been quite an imposing structure. The back-lit random perforations now appear as though they are pixels being projected outwards from the 12m LCD screen, whilst the elongated landscape perforated panels play with the eye to visually truncate the stack's overall height.

The screen itself provides the university with a useful information bulletin that showcases courses and events as well as being an advertising medium, both of which have the potential to generate a useful secondary income stream.

In order to achieve the 'random' pattern for the perforations, each of the Proteus SC panels on the flue stack had to be manufactured to a specific drawing reference and to millimetre tolerances. This involved changing the location, number and layout of the perforations on each panel. The pitch of each hole had to be calculated so that they passed seamlessly over panel joints.





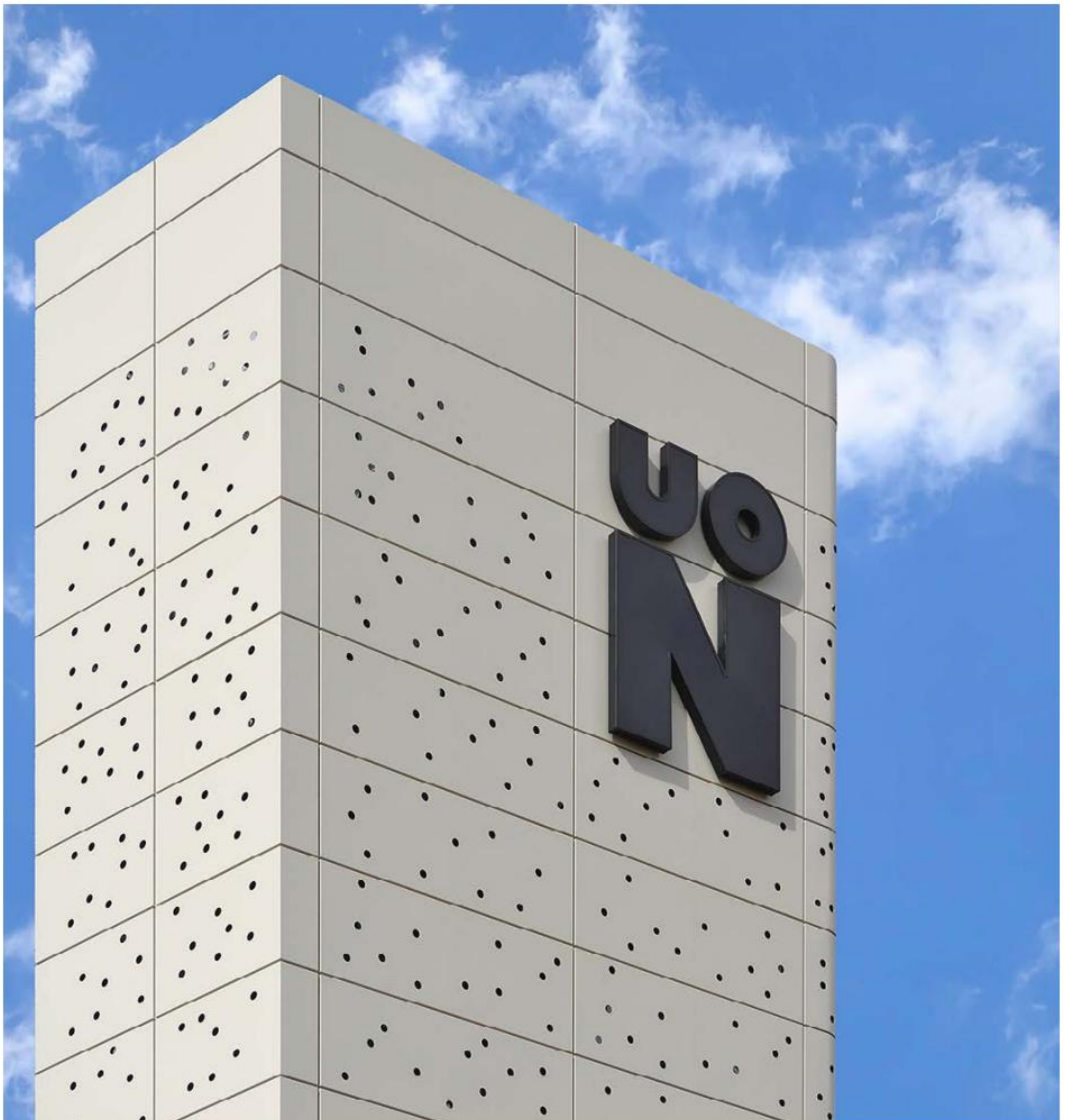
Proteus also addressed the aim of establishing a seamless link between its perforated panels on the stack and the 12m high LED screen. This was done by working with the architects, screen suppliers and façade installers, Deane Roofing and Cladding, to create a bespoke tray system allowing the screen to be recessed and the perforated panels butted up flush with the edges.

“While the building function is essentially utilitarian and technical, the external envelope has been developed to create a visually strong elevation to the campus celebrating the University’s commitment to sustainability.” said MCW architects. .”

Both the Proteus SC perforated and Proteus HR solid cladding panels are executed in polyester powder coated aluminium in RAL 7044 Silky grey, creating visual integration

between the stack and main building below.

The new Energy Centre forms part of the £330m Waterside Campus Development at the University of Northampton. It will provide sustainable heating and hot water for all the buildings and student residencies on the 58 acre site, whilst saving over 1,000 tons of CO2 in the short term, rising to 2,200 tons a year following the introduction of a Combined Heat & Power Engine.





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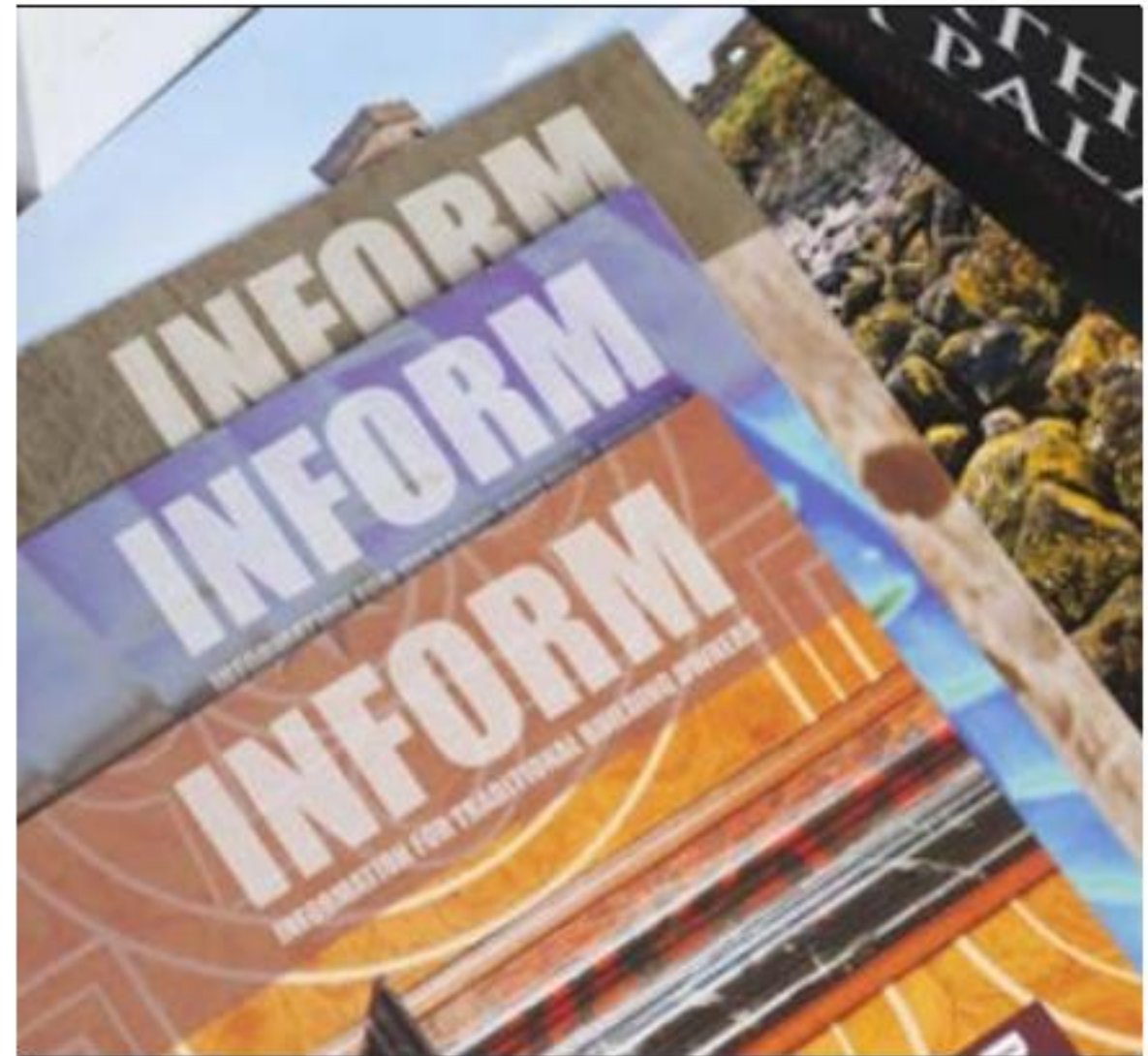
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Caithness Stone Industries employs the latest techniques in the production of the stone, allowing it to breach both internal and external markets. It produces a vast range of products from laser etched murals and signage, decorative water jet cut designs to traditional cropped cobbles and paving setts, all of which can be viewed at the Caithness Stone website.

The company is no stranger to carrying out prominent work for esteemed clients, as it has supplied stone to the Scottish Parliament and the British Memorial Garden at Ground Zero in New York. Mr Sutherland explained "We also provided roofing slates, flooring and vanities for the Castle of Mey and recently made a plaque for Historic Scotland in memory of the Scottish mercenaries killed at the battle of Alamo in Texas."

But it is not just commercial clients and special commissions JW Sutherland Ltd T/A Caithness Stone Industries carries out, it also makes and supplies bespoke products for the domestic market. These include kitchen worktops and breakfast bars, shower walling and trays, and a range of flooring that works brilliantly with under floor heating



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THE CONSTRUCTED
BUILDING AND ITS
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This apartment project occupies the lower level of a building on Mexico City's west side. It generates a dialog between the newly constructed building and its environment, interweaving the project with its landscape and unifying indoors with outdoors.

The design process inserted targeted elements that produced a series of specific, outdoor spaces whose function is directly related to the apartment's indoor activity.

The indoor section has a linear axis with access to the rooms crossing through the common, semi-private, and private areas. Likewise, the outdoor layout follows a parallel design; a wall runs along the axis that encloses and divides the areas based on the required activity.

The northeast holds two terraces joined by a pergola; the first houses a living and dining area with a vertical garden built of wooden boxes reclaimed from the shoring system used in the construction. The second terrace rests on a lower overhang, suggesting a closer relationship with the landscape. Finally, a staircase connects it with the gully underneath the structure. The southwest houses a more private garden that connects to the bedrooms, the TV room and kitchen, culminating in a contemplative space known as the Garden Box. This open module is designed for an intimate interaction between the spectator and the garden.

WEBSITE: WWW.ASP.MX / PHOTO CREDITS: RAFAEL GAMO

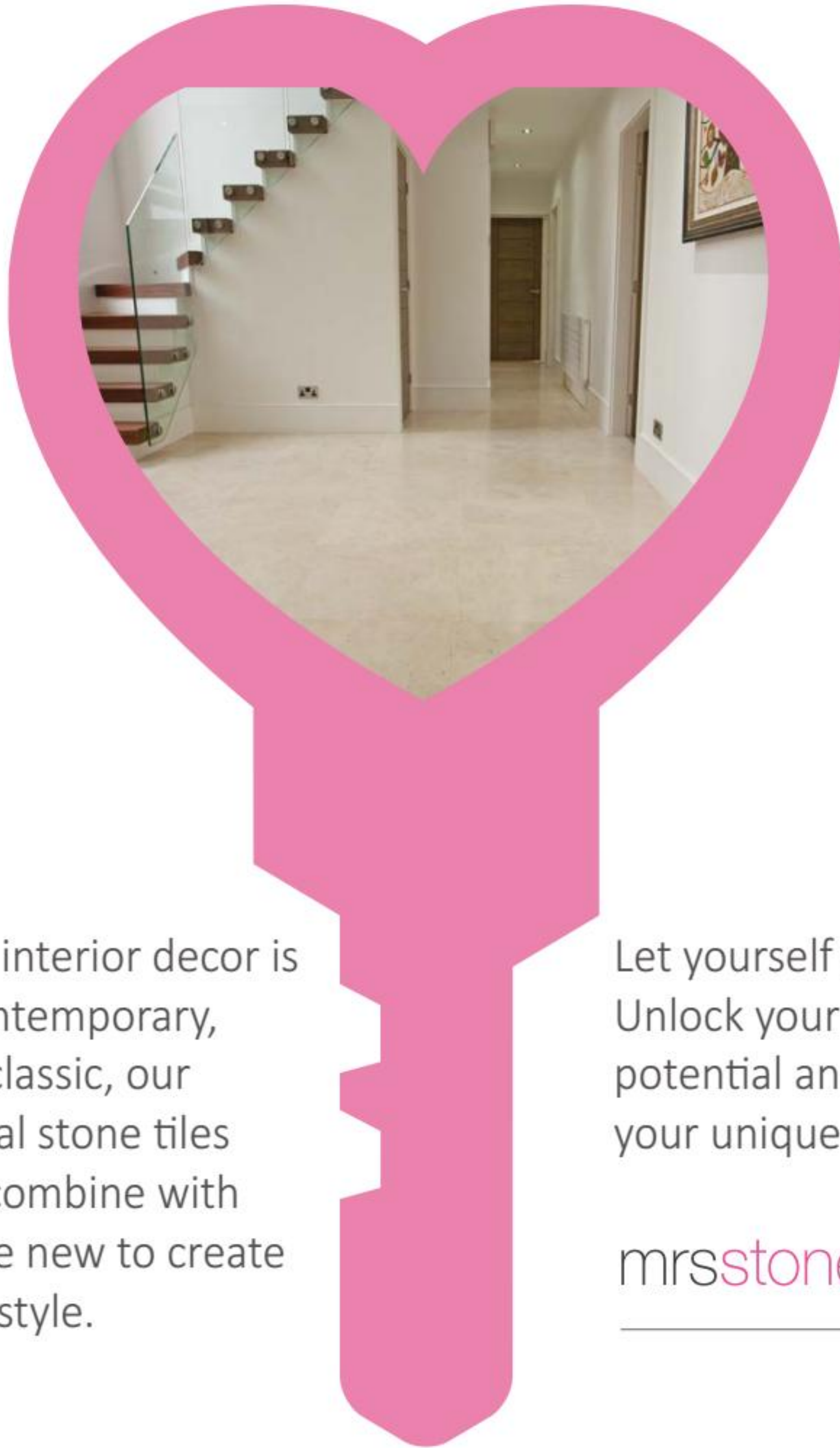




Three transition elements were built with reinforced concrete, each with its distinctive energy. The first is a pool of water that symbolizes the purification of the access space, while endowing the access with movement and sound. The second consists of a garden of energy stones, while the third is a vegetable garden, designed to blend the gully's natural vegetation with the terraces.



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SEARCHING FOR 'CAN DO' FIRMS

A name that seems to keep cropping up when we look for capable off-site manufacturer's is Benfield ATT, so we thought we'd investigate them a little more.

Apparently the firm was founded in 1995 to manufacture Swedish style timber frame houses for Scandia-Hus, having themselves been established to import and sell the products of their Scandinavian parent company in the early '70's. The business had grown well, so when it faced an adverse exchange rate against the Krone, it was only logical to transfer the technology and the fabrication to the UK.

The houses were not cheap, but the superior performance standards of the Scandinavian technology employed in their design, made their sustainable, low energy, air tight characteristics very popular with those that could afford it. Thus, the little company that was formed to replicate this was, arguably, one of the very first to promote these benefits throughout the UK.

It has to be remembered that it is only since that time that even the UK Building Regulations caught on to the improvements needed. While these have been progressively upgraded, they

remain woefully behind the northern European standards that the firm offered at that time. Although the gap has narrowed, it still maintains a lead having become increasingly focussed on delivering Low Energy Buildings since the recession.

Initially known as Abbac-Hus, to capitalise on its technological superiority the firm soon changed its name to Advanced Timber Technologies (ATT). Additionally it began to offer Canadian style platform frame homes, competing with other UK firms to supplement and grow business from its base of replacing imported homes. This also meant offering 38x89 stud panels, rather than the 140 stud Scandinavian convention which are also its mainstay today. At that time UK Building Regulations enabled them to build 4 and more storey blocks of flats with such frames. In fact, in 2000 a unique demonstration building - Timber Frame 2000 (TF2000) – became one of the most significant research projects undertaken. This collaborative project involved the construction of a six storey, timber frame building – at that time the tallest of its type in the world – to show the commercial and technical benefits of using timber for medium rise buildings in the



The TF2000 Building under construction

UK. Its success encouraged greater adoption of timber frame in construction. Today, solid and composite timber buildings of 11 stories have been built with 30 and more on international drawing boards.

In 2002 ATT was acquired by a firm owned by leading environmentalist, Professor Dr. Michael Benfield, changing its name to Benfield ATT. As he explains "Applying Marshall McLuhan's famous phrase, 'The Medium is the Message', it is absolutely clear that timber buildings have symbiotic relationship with nature. What better way, then, to promote the need for environmental sustainability than designing, making and building timber buildings." To support this belief the firm was first in the sector to gain ISO quality, TRADA 'Q Mark', and FSC Chain of Custody certifications, bolstering this with HRH Prince Charles' sponsored Business in the Community 'Big Tick' awards for 3 years in a row.

With this ethic flowing through its corporate veins, it was not long before Benfield ATT were involved in commercial, educational, healthcare, leisure, and industrial projects using engineered timber structures. Besides flats and houses it gained a reputation for tackling some of the more intricate and difficult construction challenges – in timber! Examples of this are a dental and health clinic

created on a curve and balanced on a single row of piles to meet exacting ground and site conditions in Exeter, the complex curved glulam 'Armadillo Shell' roof for a visitor centre near Cardiff, a huge 30m span portal frame for a furniture factory in the wilds of Dorset, the UK's first amphibious house in Marlow, and a circular crèche for an international 'cherry picker' manufacturer in Milton Keynes. As Prof.B (as he has become known) smilingly states, "The things other people shy away from are exactly what we like to get to exercise our skills, experience and capabilities. While we're very happy to prefabricate and build 'standard' houses, if it's 'different' it 'gets our juices going.'"

This ethos of doing different things, often differently, has spurred the firm's development of traditional carpentry, modifying this to produce standardised feature roof trusses, 'systemised' post & beam structures, and the use of hybrid glulam 'cross laminated' timber for solid timber walls, floors and roofs of 'interesting' carbon neutral structures. As Prof.B concludes, "We like to work with people who have new ideas and who, like us, see timber as a key sustainable material in our quest to 'save the planet'. It is, after all, the only renewable building material on earth."

www.benfieldattgroup.co.uk



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