

# building construction design

[www.buildingconstructiondesign.co.uk](http://www.buildingconstructiondesign.co.uk)

August/September 2017

Appointments & News	02
Building Products	04
Structural Elements	09
Interiors	11
Exteriors	15



# Oops

## Funder you trusted let you down?

Welcome to a better way.  
**100%** full development funding  
Not a penny from you.

"I couldn't have asked for a better funding partner. Banks? No thanks!" *Mr M Taylor*

Call us on 020 8974 4705  
Email: [JoinUs@go-develop.co.uk](mailto:JoinUs@go-develop.co.uk)  
[www.go-develop.co.uk/hb](http://www.go-develop.co.uk/hb)







# Porsche West London adds style with Encasement

The recently opened Porsche Centre in West London is using 22 'Forma' decorative aluminium column casings from Encasement to conceal structural steelwork while adding to the showroom's stylish and high quality interior design.

Located in Chiswick on the Great West Road, the Porsche Centre's extensive two-storey showroom not only provides display areas for the different Porsche models, but also a customer reception foyer together with a number separate sales and administration offices on both floors.

The circular Forma column casings are manufactured from 3mm thick aluminium and are coated with a protective RAL 9007 metallic light grey PPC finish to integrate with the interior design scheme and brand guidelines. While 20 of the casings are 450mm diameter and range in height from



2,396mm up 3,300mm depending on their location within the showroom and sales

areas, the two other casings are 400mm diameter and stand 6,696mm high, spanning the building's full floor to ceiling height. To reach the extended height, the casings are stacked using 3,000mm standard lengths and seamlessly joined, while also being cut, trimmed and fitted around existing structural beams to provide a high quality precision finish to the interior.

Encasement's Managing Director, Martin Taylor, commented: "Our column casing solutions have proven popular within automotive retail, as there is usually a need to cover structural steelwork in open plan showrooms and offices, such as those within Porsche, while the immense choice of finishes available, enable us to tailor the products to adhere to brand colours, as well as interior design colour schemes."

01733 266 889 [www.encasement.co.uk](http://www.encasement.co.uk)

Over  
405,000 trees  
flourishing  
globally.

25 years of experience allows GreenBlue Urban to provide you with tree pit solutions to establish and increase leaf canopy in the urban area.

[greenblue.com](https://www.greenblue.com)

**GreenBlue**  
URBAN  
Establishing the future urban landscape



25  
YEARS

1992 - 2017

## Out of sight, but not out of mind

Architects are often confronted with the seemingly impossible problem of ensuring indoor air quality meets acceptable standards, but without using ventilation equipment that spoils the building's interior design.

One of the biggest issues confronting the building services industry is the battle to maintain good air quality inside buildings without using equipment that is unsightly or noisy.

We are all familiar with the principle of controlling temperature inside buildings to improve comfort and health. When it is too hot or cold outside, people expect to be able to step into comfortable conditions inside. The same principle should apply to air pollution with people expecting a similar protection from outside conditions – not forgetting that we spend around 90 per cent of our time indoors.

As a result, adequate ventilation is a major preoccupation for design teams – so being able to balance healthy conditions with a discreet design is something of a 'Holy Grail'.



### Demand

At Air Diffusion we are seeing a dramatic increase in demand for our FlowBar range of high capacity linear slot diffusers.

These are designed to combine a very high air handling capacity with maximum flexibility and subtlety. They are suitable for either ceiling or sidewall applications fitting discreetly into a stylish interior to provide both practical and aesthetic benefits.

The discrete and stylish look of these diffusers allows them to blend into a design so they can be almost invisible, if required, or can become part of the interior design by providing sleek lines in walls or ceilings. As a

result, they have received a warm reception from both architects and interior designers.

FlowBar is available in straight lines or curves to blend with other architectural elements and enhance the overall concept of the project while also ensuring the occupied internal space is adequately and efficiently ventilated.

The standard finish on these products is a polyester powder coating and there are a number of different models available.

Factory engineered plenum boxes can be provided with all models to ensure trouble free installation and ensure the performance levels outlined in the catalogue are met.

The flexible, modular design means they can be configured in a wide variety of lengths and slot depths to fit in with an interior design. This is a product that naturally lends itself to bespoke solutions, which means the ventilation industry is able to live up to the exacting standards and deliver the best of both worlds – something of an architect's dream.

01746 761921 [www.air-diffusion.co.uk](http://www.air-diffusion.co.uk)

## How rooflights make happier homes

People do better in daylight houses. They're happier, healthier and sleep better and longer.

Rooflights let in 3 times more light than a vertical window the same size – all day, all year. Whitesales are the UK's daylighting experts. Our rooflights maximise environmental performance, cut energy bills and boost saleability and rentability.

Explore our high-performance rooflight range and discover the full benefits of daylighting at [www.whitesales.co.uk/about/daylight-theory](http://www.whitesales.co.uk/about/daylight-theory).



Call 01483 271317 or email [sales@whitesales.co.uk](mailto:sales@whitesales.co.uk) for next-day delivery from stock.

 **Whitesales®**  
Rooflights & more...



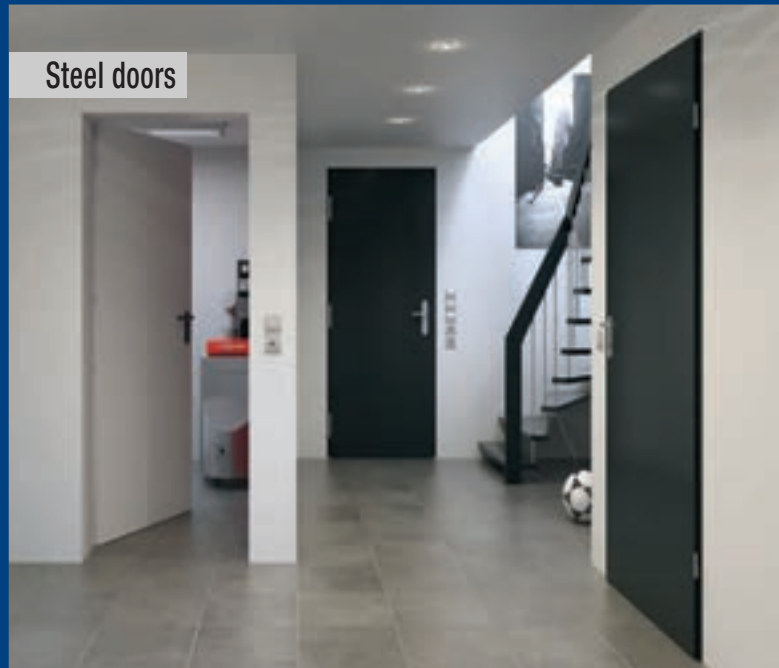
Garage doors and operators



Aluminium entrance door



Steel doors



## When the Build Matters the Doors are Hörmann

- Widest range of garage and entrance doors in the UK
- Precision German engineering
- Excellent security and outstanding reliability
- Large selection of designs to match every home

**HÖRMANN**  
Garage and Industrial Doors

# Prolong balcony living



©Tom Manley

Windoor's balcony enclosures have been integrated into the development of three flatted blocks at Eriboll Street, Glasgow. The blocks, designed by Collective Architecture, include attractive elevated outdoor spaces often referred to as sunspaces or winter gardens. These balconies provide an additional living space suitable for a variety of uses.

The glazing can be fully enclosed, fully or partially open making a versatile balcony space. Residents can enjoy up to 100 days per year more than an open only balcony, particularly in the seasons of Spring and Autumn.

*Windoor, a member of the WinGroup, is one of Europe's leading balcony manufacturers. Our ethos is that all products are manufactured, supplied and installed with design, functionality, quality and budget in mind. We work hand in hand with our clients to provide the perfect solution.*

[www.wingroup.ch](http://www.wingroup.ch)

**cpd** provider



Windoor UK Limited,  
12 Newmarket Business Centre,  
341 Exning Road,  
Newmarket, Suffolk CB8 0AT  
Phone: 0870 067 8810  
Email: [windoor@windooruk.co.uk](mailto:windoor@windooruk.co.uk) [www.windooruk.co.uk](http://www.windooruk.co.uk)

**windoor**®  
Creating living space





**Vectaire Ltd**  
eco ventilation systems

**ELX1003**

**EVO200  
EVO250DC**

**WHHR Mini**  
continuous ventilation control;  
low energy, economical  
EC motors;  
for all environments;  
loft, cupboard, room installation;  
MVHRs, MEVs, dMEVs

**EL1003**

Vectaire Ltd. 01494 522333.  
sales@vectaire.co.uk www.vectaire.co.uk

**LITHEAUDIO** CEDIA MEMBER

ALL-IN-ONE BLUETOOTH  
**CEILING SPEAKERS**

**POWER IT. SYNC IT. PLAY IT.**

Add power from the lighting circuit,  
sync any phone, tablet or Amazon echo  
and play your music!

**WWW.LITHEAUDIO.COM/OFFERS**



## Looking for a **Reliable** Sign Supplier?

For over 35 years Glendining Signs has reliably and competitively supplied sign solutions to some of the biggest names in the Construction Industry.

Having now moved into our new bespoke premises and utilising state-of-the-art printing equipment, we continue to offer great quality signage products with the speed of service you need.

- Site Safety Signs
- Sales & Marketing Signs
- Hoarding Signs
- Signage Installation

Shop now at  
**glendining.co.uk**

Tel: 0118 932 3788

Fax: 0118 932 3804

Email: sales@glendining.co.uk





**CALOR**

# Cost efficiency never looked so good

Calor gas gives developers a low-cost, hassle-free energy solution that provides rural homes with all the benefits of mains gas:

- Average installation costs of £500 per plot
- Underground tanks improve site aesthetics
- LPG boilers fit easily within standard house designs

**Call us today on 0345 6038095 to find out more about the benefits of Calor gas for housing developments without mains gas.**

**"Gas has a proven track record of providing heating and hot water to homes, so we had no doubts that LPG would be a trustworthy option that was hassle-free to install."**

**- EMMA ALLEN, PROJECT MANAGER AT  
BIMINSTER HOMES**







**GUNNING HEATING**  
LEADERS IN NATURAL CONVECTION



**Trench Heating**

Gunning Trench Heating is the best way of providing a heating system in front of full glazed walls, combating cold down-draughts and condensation. It is a discreet and effective solution for extensions, conservatories or environments where wall radiators would be in the way or unsightly.

**Finned Heating Elements**

Gunning Copper & Aluminium Finned coils are great for heat transfer. Used in trench heating, fixed under window boards or boxed in behind radiator covers this heat exchanger is cheaper and an ideal replacement for heavy steel tube. Elements come in four sizes with lengths made to measure.



**GUNNING HEATING PRODUCTS**  
 Tel: 01268 545154 Fax: 01268 545154  
 Email: [sales@gunningheating.co.uk](mailto:sales@gunningheating.co.uk)  
[www.gunningheating.co.uk](http://www.gunningheating.co.uk)  
 Unit 12A, Durham Road, Laindon, Basildon, Essex, SS15 6PH

## Protek Structural Warranty

FREE  
Registration



New Build | Permitted Development | Commercial

Structural Warranty solutions  
that enable residential and  
commercial development

  
[www.protekwaranty.co.uk](http://www.protekwaranty.co.uk) | 0333 456 5040





## GRP door & window canopies from Canopies UK

We have supplied more than 30,000 canopies throughout the UK to housing associations, contractors, house builders and local authorities.  
 With a standard range of popular canopy designs, a bespoke manufacturing facility and installation service if required, Canopies UK offer the complete solution.

<input checked="" type="checkbox"/> Free site visit	<input checked="" type="checkbox"/> Full fixing kits	<input checked="" type="checkbox"/> Specification sheets
<input checked="" type="checkbox"/> CAD drawings	<input checked="" type="checkbox"/> Delivery nationwide	<input checked="" type="checkbox"/> Installation if required

For a quote call Greg now on:

**T: 01254 777002**

**M: 07846 423812**


**[www.canopiesuk.co.uk](http://www.canopiesuk.co.uk)**


Email: [greg@canopiesuk.co.uk](mailto:greg@canopiesuk.co.uk)






PROJECT **THE CURVE**

 Fascia panels, secret fix soffits and rainscreen panels

 Slough



## MAKE A FEATURE WITH METALLINE

Our range of non-combustible rainscreen cladding, glazed in panels, feature beams, pressings, copings and general metalwork feature predominantly on many prestigious projects throughout the UK.

Work on The Curve visitor centre in Slough is a shining example of our exceptional manufacturing capability. In total over 5000 sqm of curved and straight secret-fix aluminium rainscreen panels, soffits and feature fascia's were delivered to site, on time and to exact specification

For architectural aluminium fabrication talk to Metalline.



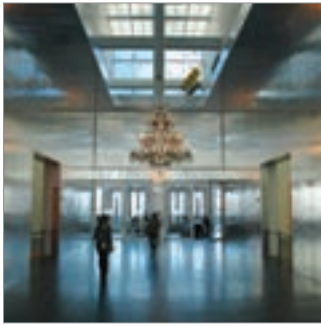
CONTACT US

[www.metalline.co.uk](http://www.metalline.co.uk) | +44 [0]1543 456 930 | [sales@metalline.co.uk](mailto:sales@metalline.co.uk)





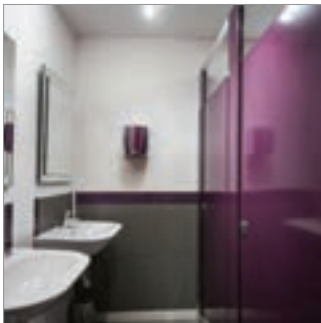
## Celotex GA4075 used to create contemporary art



Celotex insulation has been designed to help keep buildings warm and make them more energy efficient – and the panels do their primary job very well. However, one artist has found a different way to use the building material, creating unique sculptural works of art with shining metallic finishes. The story of these artworks goes back to 2007 when Italian-born artist Rudolf Stingel held a year-long solo exhibition at the Museum of Contemporary Art in Chicago. The show included several examples of Stingel's work spanning the previous 20 years, and also included a purpose-built entry gallery. This room was entirely clad in Celotex TUFF-R Zero (GA4075) with the silver foil layer creating an almost mirror-like finish on the gallery walls. The room was illuminated with a glimmering chandelier, and the result was a shining space, with fascinating light effects and reflections. Celotex is lightweight, meaning it would have been easy to transport, and it would have added very little load when attached to the gallery's existing walls. Cutting it is also simple – it can be done with a knife or saw – and this would have helped to speed up the installation process.

01473 822093 [www.celotex.co.uk](http://www.celotex.co.uk)

## Hadrian stars at the Putney Arts Theatre



Hadrian toilet cubicles starred in the refurbishment of the washrooms at the Putney Arts Theatre. The theatre is run by a charitable incorporated organisation and the new washrooms had to be good value for money as well as bringing the right dramatic style to the venue. Online research brought them to the Hadrian Cubicles UK website, attracted by the complete choice of a powder coated finish in over 200 RAL colours. The steel construction of the cubicles was also ideal for the typical theatre usage where long, relatively quiet parts of the day are followed by intense activity during performances. UK distributor Relcross Ltd supplied the three cubicles for the ladies washroom and one for the gents. The design committee chose RAL 4007 purple/violet for the main colour scheme and the finished cubicles exactly matched the paint finish in other aspects of the washroom decor. Theatre General Manager Marie Thackwell said "While it was initially the colour options that attracted us, they have proved to be very hard wearing and still look as good as new. Relcross have also been very supportive." For further information call or visit the website.

01380 729600 [www.hadrian-cubicles.co.uk](http://www.hadrian-cubicles.co.uk)



## Studor shows the way to health and hygiene in the bathroom

While unpleasant, a bad smell in the bathroom is not in itself dangerous. However, it may well be indicative of a more serious and potentially life-threatening issue. The smell can indicate that the water trap seal, has been lost, potentially posing serious health risks. Water trap seals started being fitted on bathroom and kitchen fixtures after the 1854 cholera outbreak in London, in which hundreds of people died. Today, cholera is not a risk in the UK, but within all our drainage systems sewer gases and pathogens such as SARS, legionnaires, norovirus and others are always present. For the last 40 years, drainage ventilation expert Studor has been solely focused on developing products that maintain the water trap seals in our buildings. Studor's Trap-Vent solution, the combination of a water trap and Air Admittance Valve (AAV), can easily be retrofitted to an existing bathroom, and is also ideal for small group venting in, for example, hotels, care homes and hospitals. It protects the water trap seal between the drainage system and the room, stopping bad odours and pathogens escaping from empty traps. The Studor Trap-Vent is a combined trap with a 50mm water seal and an integral AAV. It reduces the need for secondary ventilating in small fixture groups and replaces conventional S traps and P traps.

[info@studor.net](mailto:info@studor.net)

## HOUSING MANAGEMENT & MAINTENANCE



## Register online for...



In-print magazine  
Digital magazine  
Newsletter  
Digests

[www.housingmmonline.co.uk](http://www.housingmmonline.co.uk)



*For illustrative purposes only.*

## CHOSEN TO PERFORM

### Pilkington **Activ™** Range

#### **The first self-cleaning glass.**

With more and more people incorporating large expanses of glass into their homes the need for high-performance glazing is growing.

But controlling temperature and keeping glass clean can be a challenge. The Pilkington **Activ™** Range is the obvious solution, with both self-cleaning and solar control properties it helps to create a comfortable environment all year round.

Because when you want glass you can trust, there can only be Pilkington.

Find out more, visit:  
[www.pilkington.co.uk/activ](http://www.pilkington.co.uk/activ)



**PILKINGTON**





# Ideal Standard adds to Concept Freedom range with new accessible bath for all ages

**I**deal Standard, the leading provider of innovative and design-driven bathroom solutions, has extended its successful 'accessible bathroom range', Concept Freedom, with the addition of a new, multi-functional, accessible bath that is suitable for the whole family.

Concept Freedom's new inclusive bath tub has been designed to make bathing anxiety free for users with mobility issues, while still delivering a beautifully designed aesthetic and a tranquil space in which to bathe.

It also aims to offer an alternative to the somewhat stigmatised requirement to replace a bath with a shower in the hope, just because a user has mobility issues.

The intelligent and versatile design of the bath combines luxury with multi functionality, meaning its features are relevant for the different needs of the different types of users in the bathroom – with many of its features, such the lower ledge, also making bath time simpler for those



bathing children and pets, for example.

Other key features of the bath include a reinforced ledge for stability, a lowered height controlled entry and exit, an inside step ledge to aid movability, a gel headrest to support the neck and support rails for manoeuvrability.

Ideal Standard teamed up with experts in design and care for older people. Led by Ideal Standard designer Robin Levien, the team comprised Design Council member, Colum Lowe, from specialist healthcare organisation,

Red and Yellow Care, and well-respected occupational therapist, Anava Baruch, from Design for Independence.

Developed with accessibility in mind, the Concept Freedom range aims to include those of limited mobility through a collection of ceramics, brassware and showers that are well-designed, elegant and functional to meet a range of access needs.

Bathrooms can be adapted to users' changing needs, whilst still looking modern and stylish – ensuring that the space deals with the demands of modern households and the diversity of occupants, including less able and older generations.

Concept Freedom's collection includes raised height WCs for easier, more comfortable access, accessible basins with wide side rims, wet-room panels with extended brackets and easy to use shower valves and kits.

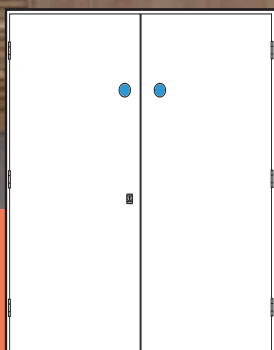
01482 346 461 [www.ideal-standard.co.uk](http://www.ideal-standard.co.uk)

## ahmarra

### EDUCATION RANGE



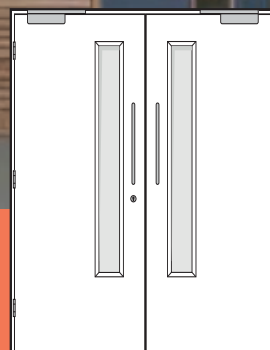
A range of made-to-order doorsets for schools, colleges, academies and universities.



Type 17



Type 13



Type 07

Download the brochure from:

[www.ahmarra.co.uk](http://www.ahmarra.co.uk)

# Quantum's wide range of trusted stair nosings is now even wider!

The experts at Quantum Flooring Solutions are constantly looking for ways to improve the functionality of its specialist products and, following an extensive programme of research and development, they've now hit upon a unique design which will considerably improve user safety on the nation's staircases.

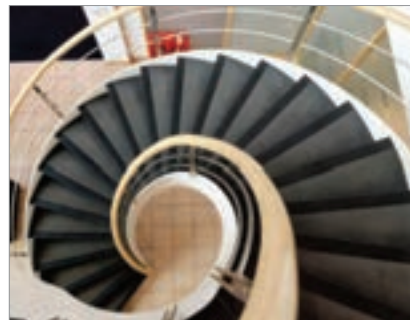
Unlike conventional stair nosings which are manufactured with two separate pieces of narrow tread, Quantum's brand new concept features a single expansive layer of slip-resistant PVC across the entire upper surface of the carrier, crucially creating a greater area of grip than any other product available.

This new Wide-Tread addition to the top-selling Aluminium Q-Range is perfect for installation in all types of public and commercial buildings, and is especially suitable for high footfall locations including schools and hospitals. It is also fully Equality Act compliant; its exclusive broader design



and choice of distinctive tread colours help to generate a far more obtrusive ladder effect on the staircase, maximising visibility and security.

Increased safety isn't the only significant product advantage though – Quantum's new-style nosings eliminate the channel in-between treads where grit and grime collect, facilitating much easier cleaning and maintenance too.



A free site survey and measuring service will prove just how cost-effective this industry-first, new product development can be for your projects. If you'd like to know more about the wider benefits of Wide-Tread stair nosings, contact the Quantum specialists today or alternatively visit the website.

0161 627 4222  
[www.quantumflooring.co.uk](http://www.quantumflooring.co.uk)



## PURE QUALITY, BEAUTIFULLY FINISHED

When it comes to your customers' homes, trust only the best

LUXURIOUS OAK  
STRUCTURES  
BEAUTIFULLY  
CRAFTED IN  
ENGLAND

The love and pride in our work spans over decades. We use the best, most characterful oak from sustainable sources, then combine modern and traditional craftsmanship methods to deliver exactly what you want. What sets us apart is our meticulous attention to the finest detail and the hand wrought finish we give to each exposed beam.

[www.oakmasters.co.uk](http://www.oakmasters.co.uk)

01444 455 455





## Offsite Solutions £5m investment



Offsite Solutions, one of the UK's leading bathroom pod manufacturer, has announced a £5m investment programme to expand its production facilities in Somerset to meet the growing demand for its factory built bathrooms. This will be the

biggest expansion programme in the history of the company. Planning approval has now been granted for a £1m facility to increase storage space at Offsite Solutions' UK headquarters and production centre to accommodate up to 3,500 completed bathroom pods, before the units are delivered to building sites across the country.

[info@offsitesolutions.com](mailto:info@offsitesolutions.com)

## Glass balconies add style to coastal location



A development of luxury apartments on the scenic coast of Yorkshire has specified Neaco's range of contemporary balconies and balustrade. The complex of 32 properties includes balustrade to terraces, glass Juliet balconies and walk on balconies with Neaco's aluminium grille

flooring. The aluminium balustrade and rails feature a black powder coated finish which complements the tinted glass panels. Neaco's grille systems are designed to provide a large foot contact area – typically between 74 per cent and 100 per cent on balcony applications – whilst enabling efficient drainage of rainwater. .

[sales@neaco.co.uk](mailto:sales@neaco.co.uk)

## MODULAR SHOWERING SOLUTIONS



- PREFABRICATED BATHROOM PODS
- PREFABRICATED SHOWER CUBICLES
- ISO 9001 & 14001 ACCREDITED
- TOTALLY LEAK PROOF
- RELIABLE
- SUSTAINABLE
- FULLY RECYCLABLE
- SIMPLE TO INSTALL
- 25 YEAR GUARANTEE
- MADE IN YORKSHIRE

**TAPLANES®**  
SHOWERING SOLUTIONS

t. 01423 771645  
e. [admin@taplanes.co.uk](mailto:admin@taplanes.co.uk)  
[www.taplanes.co.uk](http://www.taplanes.co.uk)

# Designed For All

House builders and developers reputations rely on building quality homes that exceed expectations. Whilst maintaining a long term quality reputation. Exceptional design, engineering and overall quality make the Terrier perfect for all your new build developments.



**Terrier**  
The Only Choice

- Ergonomic design
- Chrome accent ring for décor style appeal
- Enclosed and efficient design
- Terrier performance compliance to Building regulations and proven energy saving
- Dynamic colour visual settings
- Smooth operation – intuitive settings
- 33% Hysteresis reduction



For more detailed information:

FREE PHONE 0800 156 0010

email: [uksales@pegler-yorkshire.co.uk](mailto:uksales@pegler-yorkshire.co.uk)

[www.pegler-yorkshire.co.uk](http://www.pegler-yorkshire.co.uk)



Pegler Yorkshire

# Fully funded flat roof solutions for Airedale Academy

Airedale Academy in Castleford recently underwent significant refurbishment to repair its failing flat roofs, which had surpassed their natural life expectancy and were experiencing water ingress. Prior to the work commencing on site, flat roof manufacturer Bauder helped the academy successfully secure £1.5 million of funding for the required works by assisting them with all stages of the application process.

All of the original waterproofing on the school's campus was then removed before being replaced with over 7,200m<sup>2</sup> of Bauder's premium reinforced bitumen system, Bauder Total Roof System, by approved contractor FRS Roofing Services. The system build-up included Bauder's PIR Insulation for superior thermal performance and tapered insulation to effectively create drainage falls without having to incorporate them into the structure. As part of the necessary works, 20 new Bauder rooflights were also expertly



fitted to give essential daylight to the building's interior.

A challenging element of this installation was the number of intricate detailing requirements, with the roof possessing over 20 separate roof areas, calling for exceptional levels of workmanship from FRS. There were also some health and safety implications, with asbestos having been found within the building structure. Consequently, specialists were called in to ensure safe removal and some roof areas were overlaid to minimise the

possibility of any asbestos debris being dislodged and therefore contaminating the rooms and corridors below.

The academy remained open and fully operational throughout the works, which caused logistical challenges, however all deliveries were timed as not to conflict with vehicles moving in and out of the facility and the team worked closely with the client to agree working hours to reduce disruption to the students and staff.

Mike Leake, Vice Principal at Airedale Academy: "The expert support we received from Bauder was crucial in helping us secure the necessary funding and the final outcome of the roof refurbishment is outstanding. We are already starting to notice the benefits, including cost savings as a result of the insulation upgrades, and our long guarantee gives us total confidence about the future performance of our roofs."

01473 257671 [www.bauder.co.uk](http://www.bauder.co.uk)

## Bold brass

Road and rail tunnels are not often associated with inspirational design but this tunnel portal building in Austria, defined by perforated Nordic Brass copper alloy from Aurubis, takes a particularly bold approach.

The 5.5km long Bosruck Tunnel passes through the Ennstal Alps, connecting Upper Austria with Styria. The original, two-way traffic tunnel has been renovated and a second, new tunnel built alongside. Now part of the A9 Pyhrn motorway, it is used by around 18,000 vehicles each day. This impressive engineering feat is announced by new portal structures at both ends of the tunnel.

The highly architectonic approach taken is unusual for projects of this kind, suggesting a new building typology celebrating transport infrastructure. A series of screens – made up of perforated Nordic Brass cassettes, profiled and arranged to reflect the verticality of the surroundings – partially conceal buildings and equipment essential to the tunnel's operation and safety. The rhythms of the screens highlight the experience of travellers



as they approach and drive straight through the building, via the dramatic 'flying roof' entrance and exit galleries, acting as transition spaces between inside and out.

Nordic Brass was chosen for its long-life and durability, including resistance to road salt, following trials simulating the exposure of the material over 30 years. Along with three other Aurubis copper or copper alloy clad projects, Bosruck Tunnel has been shortlisted for the 2017 European Copper in

Architecture Awards. All four shortlisted projects will also be featured on the Aurubis stand at the '100% Design' event in London Olympia, 20-23 September.

Nordic Brass – also available with a pre-weathered finish – is produced by Aurubis, part of the world's leading integrated copper group and largest copper recycler. Other copper alloys include Nordic Bronze and the innovative Nordic Royal, an alloy of copper with aluminium and zinc, giving it a rich golden through-colour and making it very stable.

The Aurubis architectural range also includes Nordic Standard 'mill finish' and Nordic Brown pre-oxidised copper, offering lighter or darker shades of brown determined by the thickness of the oxide layer. Various Nordic Green, Nordic Blue and Nordic Turquoise factory-applied patinas have also been developed with properties and colours based on the same brochantite mineralogy found in natural patinas all over the world.

[g.bell@aurubis.com](mailto:g.bell@aurubis.com) [finland.aurubis.com](http://finland.aurubis.com)





# RECYFIX® MONOTEC: A monolithic drainage system with a high attenuation volume

**H**auraton Limited has introduced into the UK, RECYFIX® MONOTEC, its new high capacity channel system for the surface drainage of pavements, bicycle routes, car/van parks and roadways in and around residential, commercial and light industrial areas where the channels need to have high lateral strength, are capable of withstanding continuous compressive loads and where ease of installation is a major consideration.

The RECYFIX® MONOTEC one metre long channel component is of a sturdy monolithic design where the grating and the tongue and groove linking system are integral to the channel moulding. The whole unit is made of tough, virtually unbreakable polypropylene (PP) formulated to be very resistant to daily temperature fluctuations from frost conditions to strong sunlight, including the Ultra Violet (UV) spectrum. PP is naturally resistant to de-icing salt. Complying with the requirements of EN

1433, the PP is given its UV resistance by adding just sufficient carbon black as a stabiliser so that the structural strength of the material is unaffected and a consistent appearance is maintained.

MONOTEC channels are offered in two nominal grating widths of 100 and 200mm, both suitable for a loading category of up to Class D400. The 100mm channels are available in three overall heights; 230, 280 and 380mm and provide channel cross-sections of 190.5cm<sup>2</sup>, 245.5cm<sup>2</sup>, and 355.5cm<sup>2</sup> respectively. The largest 200mm channel, which only weighs 16.2kg, has a cross-section of 746.1cm<sup>2</sup> and so has an attenuation volume in excess of 74 litres per meter.

The three sizes of 100mm channels can be arranged in a step-fall arrangement with different channel heights connected by special transition adaptors that ensure the water drains away smoothly and quietly with the increased flow velocity playing a



considerable role in cleaning the channel run. The step-fall arrangement may be desirable where there is a high risk of silting as the increased flow will help wash debris towards the system's Inspection/Trash Box.

RECYFIX® MONOTEC channels are certified in accordance with EN 1433. The CE symbol, external monitoring and the conformity declaration are the guarantee of a maximum technical and qualitative standard.

01582 501380 [www.hauraton.co.uk](http://www.hauraton.co.uk)

## Levolux gives a lift to Lee High Road



The recently completed Goldcrest House residential development in Lee High Road, Lewisham, incorporates a number of eye-catching features, including an external solar shading and screening solution, courtesy of **Levolux**. The substantial four and part five-storey building is located within a confined site, sandwiched between Lee High Road to the north-east and the River Quaggy to the south-west. The 'L' shaped building is considerably larger than the original single-storey terrace it replaces, with a frontage that extends 53 metres in length, following the gentle curve of Lee High Road. To soften the visual impact of the building from the street, Levolux was invited to develop an external solar shading and screening solution, comprising vertical Aerofoil Fins and horizontal and vertical glazed panels. The solution applies across the length of the building and extends vertically, from first floor to roof level. External walkways, with mesh balustrading, are concealed behind a series of multi-coloured, extruded aluminium Aerofoil Fins. Each Fin, which is fixed vertically at 90 degrees, measures 200mm wide by 45mm thick, with lengths of up to 2.7 metres.

020 8863 9111 [www.levolux.com](http://www.levolux.com)

## Kalwall® sheds light on education



**Kalwall®** translucent cladding has been extensively used for the impressive refurbishment of the main teaching block at Featherstone High School in Southall. The original concrete framed building was failing due to ingress of water and needed structural stabilisation. DSP Architecture were appointed to repair and encapsulate the frame, resulting in a stunning transformation into a very modern teaching block. The renovation required removal of the old concrete spandrel panels, repairs to the concrete structure and then over-cladding with Kalwall panels supported on a new steel frame which was added to extend the floor space. The two fully replaced elevations are a perfect example of how Kalwall can be used for the refurbishment of old and failing cladding and for aged buildings. The new facades allow floor to ceiling diffused and healthy daylight to flood the interior while providing privacy for students and removing any distractions. An integrated row of clerestory windows provides ventilation and limited views to the outside. Kalwall eliminates all shadows and glare and the stark contrasts of light and shade which not only reduces eye fatigue but also enhances concentration.

+1 603 627 3861 [www.kalwall.com](http://www.kalwall.com)

# Flush, sleek and unique. Design perfection...

## ...introducing our NEW Flush Tilt-Turn

- High performance centre seal system
- U-value 0.8 W (m2.K)
- Achieves WER A++
- Design flexibility with maximum opening size up to 2300 x 1450mm
- Glazing options: 28, 36 & 44mm
- Available in 28 colour options
- Perfect for medium-high rise buildings
- Sash is neatly positioned inside the frame
- Six chambered system with Aeroframe technology
- Concealed hinges & gearing

To find out more **call our commercial team**  
on **01952 283377**.

**[www.profile22.co.uk](http://www.profile22.co.uk)**



THE BEST WINDOWS ARE MADE FROM





## 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



Graphic of the Isokorb type RKS in position

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 – call Schöck or visit the website.

01865 290 890  
www.schoeck.co.uk



Work in progress at Sudbury Hill



**Freephone - 0800 338 5482**  
Email: [sales@allertonuk.com](mailto:sales@allertonuk.com)  
Website: [www.allertonuk.com](http://www.allertonuk.com)



**The Dependable Choice in Drainage**  
In rural areas without a mains drainage system, and where septic tanks will no longer reach environmental standards, Allerton can provide the ideal solution. Trading since 1974, Allerton are leading specialists in efficient treatment systems. They pride themselves on their individual, problem solving approach to dealing with alternative means of treating and disposing of raw sewage.

The Allerton Consept converts your existing Septic Tank or Cesspit into a fully functioning Sewage Treatment Plant

**The Diamond Sewage Treatment Range** is suitable for either individual Homes or small population applications

When Gravity Drainage is not possible choose Allerton Pumping Stations for Sewage or Dirty Water

**Servicing & Maintenance** on a wide range of Sewage Treatment Plant and Pump Stations by **BRITISH WATER ACCREDITED ENGINEERS**







## Remmers sets sail at Red Wharf Bay



Red Wharf Bay Sailing & Watersports Club is set in an area of outstanding beauty at Traeth Bychan on the Isle of Anglesey, North Wales. The member's clubhouse has been sited here for over 50 years due to its suitable sailing waters.

The members of the committee decided that the exterior of the building was looking a little tired and a refresh was needed before the new season started at Easter. Remmers Compact Opaque PU topcoat was selected for the job due to its performance characteristics and suitability to coastal locations.

01293 594 010 [www.remmers.co.uk](http://www.remmers.co.uk)

## Fawcetts Yard taps into rich seam of Neaco style



Neaco's glass balustrade and aluminium decking systems have added contemporary style to balconies at Fawcetts Yard, a development of luxury homes in Harrogate designed by Bramhall Blenkharn and built by HACS Construction. Ric Blenkharn of Bramhall Blenkharn said: "I'm more than happy with the service and products supplied by Neaco – their combination of decking and balustrade has been excellent choice for this development. I'm familiar with the products, having used them on a number of other projects as well as my own home."

sales@neaco.co.uk

# Senior gets technical with college contracts

With an already impressive portfolio of projects in the education sector, leading fenestration manufacturer Senior Architectural Systems has seen a significant increase in specification of its SF52 aluminium curtain walling system for use on several University Technical Colleges (UTC) projects across the UK.

Providing attractive slim sightlines to maximise the flow of daylight, Senior SF52 aluminium curtain walling system and SPW600 aluminium windows were the ideal choice for specialist glazing contractor Dortech Architectural Systems Ltd to create the glazed facade of the new state of the art Scarborough University Technical College. Designed by architects Faulkner Brown, the new facility has been constructed by main contractor Willmott Dixon.

A further appointment by main contractor Willmott Dixon has seen Senior supply the fenestration package for UTC South Durham, a key feature of which is a triple-height engineering hall. Here, specialist contractor Chemplas has installed the SF52 aluminium curtain walling to create

a bright and welcoming entrance with Senior's SPW600 aluminium windows flooding the interior of the three-storey building with natural light.

The aesthetic appeal and design flexibility of Senior SF52 curtain walling system has also been put to the test at the new University Technical College in Leeds. Unusually, rather than a new build, this UTC has been created following the restoration of a Grade II industrial factory building. Fabricated and installed by Granada Glazing Ltd for main contractor BAM Construct UK, the slim sightlines of the SF52 curtain walling perfectly complement the industrial heritage of the building that has been given a new lease of life as a UTC by Race Cottam architects. The Leeds' project also features Senior's robust SD automatic doors.

The enhanced thermal performance of Senior's SF52 curtain walling makes it ideally suited for applications where daylighting and energy-efficiency are key requirements and as such, has been used to great effect at the new UTC Sheffield Olympic Legacy Park. A repeat business opportunity with both



Granada Glazing Ltd and BAM Construct UK, Senior's SF52 curtain walling and SD automatic doors have been used to create the dramatic, double-height glazed entrance to Bond Bryan architects' designed building. For more information, please visit the Senior website.

01709772600  
[www.seniorarchitectural.co.uk](http://www.seniorarchitectural.co.uk)

**Kytun™**  
 DRY ROOFING PRODUCTS



Valley



Hip



Ridge



Verge



Eaves



Abutment

The world's largest producer of Dry Verge Systems



**nwa** GROUP  
 NORTH WEST ALUMINIUM



+44 (0) 1684 293702 | [info@kytun.com](mailto:info@kytun.com) | [www.kytun.com](http://www.kytun.com)



# 'Deck Kit Out' for a simple, stylish fit

When looking to put the finishing touch to the exterior of your dream home with a stylish deck, there's a host of factors to take into account – and a stress-free, simple installation must rank very highly among them.

Liniar's PVCu decking kits have been specifically designed with this in mind and offer a quality product that's not only easy to assemble, but is low maintenance and requires no sanding, painting or staining, unlike timber.

Also, if you've opted for Liniar windows, doors or conservatory roofs, then you'll be able to extend the style of your home into the garden with beautiful balustrades, fully colour matched to the rest of the Liniar range, for a truly stunning finish.

The decking kit sections are delivered to site either part or fully assembled to minimise installation time.

Liniar's galvanised steel sub-frame, unparalleled in the market, comes part assembled and has been strength tested with a weight of 1.25 tonnes.

The only fully sculptured balustrade system on the market also comes ready constructed, meaning no fiddly cutting and fitting of handrails with pickets. By reinforcing the posts and balustrades with steel, there's no timber to create a fire risk or to rot in damp conditions.

Available in seven colours from stock, including four foiled finishes, with alternative foil finishes also available and made to order.

Liniar's woodgrain effect deckboards are available in five attractive colours and cut to length for a hassle-free installation.

You can even add matching gates and steps, which are also delivered pre-fabricated.

Kits are supplied with all necessary



fixings and required hardware to put the deck together.

With a vast selection of standard designs to choose from, plus a bespoke facility available, along with a simple ordering system, Liniar decking kits have been specifically developed to make installation simple.

Watch Liniar's decking kit installation video to see just how easy it is – [www.liniar.co.uk/videos/install-liniar-decking-kit](http://www.liniar.co.uk/videos/install-liniar-decking-kit).

**01332 883900**

[www.liniar.co.uk/decking/decking-kits](http://www.liniar.co.uk/decking/decking-kits)



## The future of wood

One of the UK's largest independent timber and panel products distributor **James Latham**, now offers the next generation of timber and panel products through all nine of its nationwide panel depots with both Accoya® and Medite®Tricoya® Extreme. Sourced from fast growing sustainable forests, Accoya® wood, which spans eight decades of research, is a certified softwood which uses Accsys' proprietary wood acetylation technology to deliver exceptionally high levels of performance, stability and durability. Boasting a 50-year guarantee for exterior use and 25-years when used in the ground, Accoya® wood offers all kinds of new possibilities and solutions for outdoor projects which may involve challenging and demanding applications. The design and application possibilities offered by Medite®Tricoya® Extreme – a high technology wood – sees the marriage of acetylated wood fibre with the manufacturing technology of Medite MDF. Characterised by its durability, dimensional stability and reliability, and offering Medite®Tricoya® Extreme inspires creativity and discovery in environments where humidity and weather are usually concerns. The potential applications for Medite®Tricoya® Extreme are far ranging and are particularly well suited in areas where wood would not traditionally have been considered.

[www.lathamtimber.co.uk](http://www.lathamtimber.co.uk)



## Cladding makes an 'Ideal Home'

Every year one of the most popular elements of the Ideal Home Show at Olympia is the full size show homes. Visitors to this year's show were treated to two stunning properties, both featuring **Freefoam Fortex** cladding. Pale Gold Double Shiplap cladding formed the exterior finish of a three apartment structure designed to reflect the three stages in life, first time buyer, family home and downsizing. Visitors were invited to 'climb the property ladder' apartments to navigate first-hand the design and practical challenges faced by designers and city dwellers alike. Pale Blue Weatherboard cladding was used to great effect on the second show home. A traditional cottage with a contemporary twist designed to appeal to metropolitan families relocating to the countryside. The house featured a beautiful thatch roof and timber cladding with the lower level also clad with ultra hard-wearing, low maintenance Freefoam Fortex PVC cladding. Freefoam Marketing Manager, Louise Sanderson commented "With over 20,000 visitors each day we were really pleased to have the Freefoam cladding range exposed to such a large, engaged homeowner audience. Available in a choice of eight subtle colours the range has been developed specifically for both renovation and new build projects, the perfect product to create an 'Ideal Home!'"

**01604 591110** [www.freefoam.com](http://www.freefoam.com)

## Tobermore deliver aesthetic and functional hard landscaping solution for Junnell Homes

**J**unnell Homes Ltd developed Salterns Reach, a luxurious housing scheme in West Sussex.

Jonathan Bingham, Construction Director at Junnell Homes, explained what his team wanted to achieve at Salterns Reach: "As with all Junnell Homes' projects, we wanted to create a boutique-style development consisting of properties with a bespoke design that would showcase real character and style."

Jonathan explained that the choice of hard landscaping materials was taken into careful consideration as the exterior of a home is so crucial when trying to appeal to home buyers. He noted: "Paving was selected as the most appropriate hard landscaping material due to the attractive and hard-wearing qualities that it offered – making it a more superior option than the likes of tarmac, concrete or gravel."

Jonathan continued: "We liaised with Tobermore's South East Sales team and Beth Moore (long-standing Landscape Designer at Tobermore), who provided various landscape design options and the most suitable products to use for each. This was a fantastic service and helped us find the best solution."



Tobermore's Hydropave Tegula Duo and Hydropave Tegula 240 was specified as these products are manufactured with an aged, antique appearance that allowed the landscape to blend beautifully with the traditional surroundings of the site.

Jonathan commented on this decision: "The aesthetics and technical capabilities of the products met our design vision; hard-wearing, suited to purpose, easily repairable and offered design flexibility."

In addition to the visual appeal of Hydropave Tegula Duo and Hydropave Tegula 240, the products provide a permeable function – a legal

requirement for new housing schemes in the UK that feature ten or more units. Tobermore's Hydropave permeable paving is designed to allow rainfall to infiltrate naturally into the ground as method of flood prevention and offers cost savings over traditional drainage method such as pipes or manholes.

The properties at Salterns Reach successfully reached completion in late 2016. Jonathan commented: "We feel the project was a success and we are very pleased with the outcome."

**0844 800 5736**  
**[www.tobermore.co.uk](http://www.tobermore.co.uk)**

## HOUSEBUILDER & DEVELOPER



@Housebuilderdev

### REGISTER ONLINE FOR...

In-print magazine • Digital magazine  
Newsletter • Daily digests

**[www.hbdonline.co.uk](http://www.hbdonline.co.uk)**

## selfbuilder + homemaker



### REGISTER ONLINE FOR...

In-print magazine • Digital magazine  
Newsletter • Digests



@SelfbuilderHome

**[WWW.SBHONLINE.CO.UK](http://WWW.SBHONLINE.CO.UK)**



# Glass Excellence

Established in 1975 Firman Glass is one of the leading independent glass processors in the UK, manufacturing toughened glass, laminated glass and specialist sealed units.

Based in Harold Wood Essex within 5 minutes of junction 28 of the M25 and half an hour from Central London we are ideally situated to service our ever growing and diverse customer base.

Manufacturing all forms of processed toughened glass, with comprehensive stocks of clear float, low iron, satin, body tinted, mirrors, laminated glass, acoustic laminated and fire rated glass.

With some of the most advanced capabilities in place Firman Glass is able to manufacture high quality products for all markets sectors including architectural, retail, leisure and domestic.

[www.firmanglass.com](http://www.firmanglass.com)

## Products

- Toughened glass
- Processing
- CNC shaping
- Laminated glass
- Toughened and laminated constructions
- EVA and Vanceva coloured interlays
- Fabric and decorative interlays
- Saflex DG41 structural interlay
- Specialist insulating glass units
- Anti-slip glass
- Fire rated glass
- UV bonding
- FIRMALITE electric switchable glass
- Heated glass
- Decorative glass
- Sandblasting
- Colorfirm™ back painted glass

## Applications

- Structural glazing
- Glass floors
- Partitions
- Roof lights
- Balustrades
- Full height barriers
- Canopies
- Staircases
- Treads and stringers
- Shower screens
- Shelving
- Glass doors
- Acoustic reduction
- Fire rated
- Decoration
- Wall cladding
- Splashbacks
- Privacy
- Technical Support
- Nationwide Coverage

Further information is available from our sales and technical offices or visit [www.firmanglass.com](http://www.firmanglass.com)

Firman Glass, 19 Bates Road, Harold Wood, Romford, Essex RM3 0JH

Tel: 01708 374534 Fax: 01708 340511 Email: [sales@firmanglass.com](mailto:sales@firmanglass.com)



**Firman**

[www.firmanglass.com](http://www.firmanglass.com)



