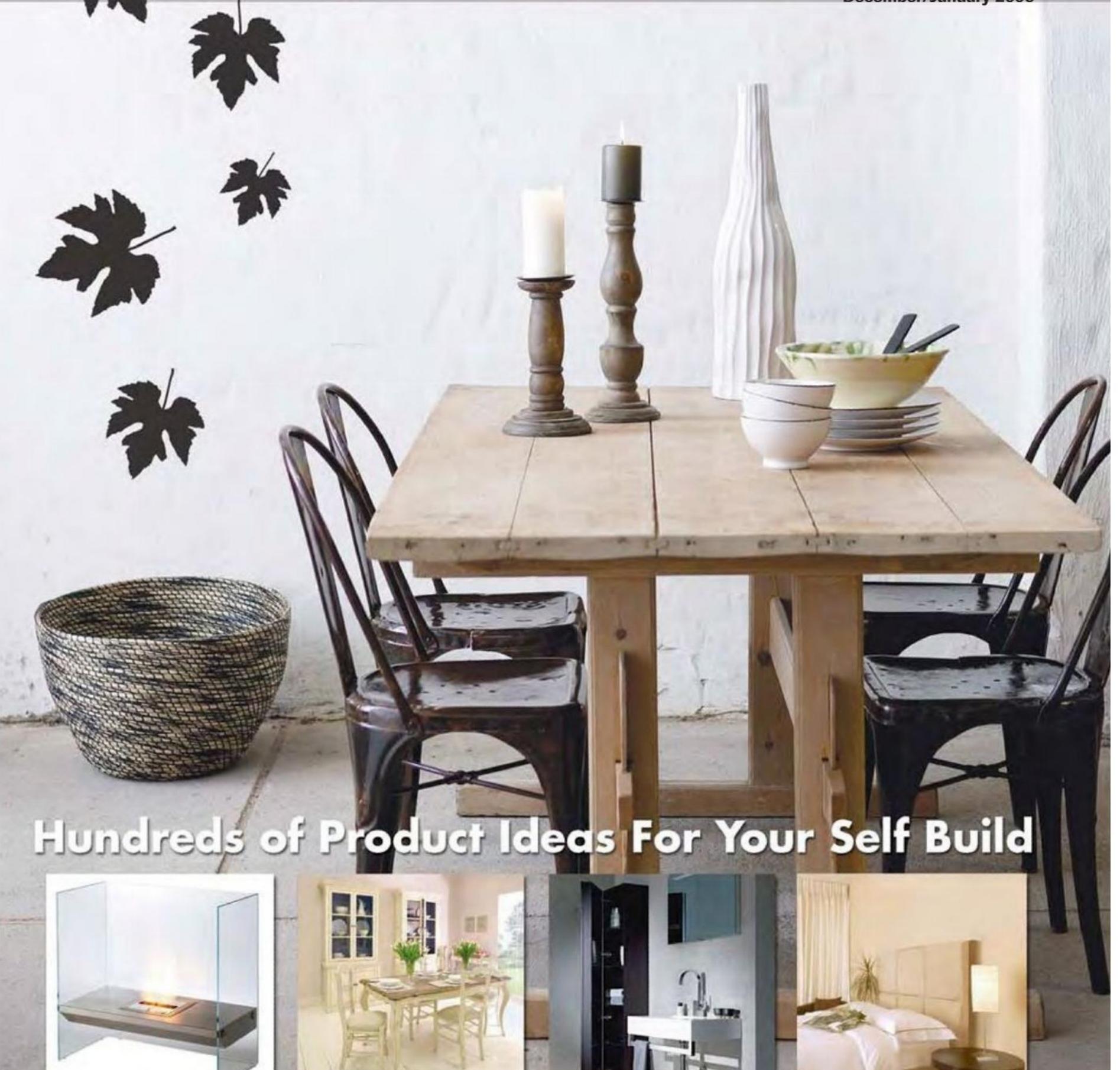
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December/January 2009



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Printed in England

Front Cover: Image shows wall stickers from Ferm Living.

# **Editors** Choice



# Alape

Providing complete versatility, Alape's tall cupboard can be customised by fitting the door to a left or right hinge. Available in a bright high gloss white laminate or dark oak veneer, the tall cupboard is designed to co-ordinate to all bathroom decors. Sleek styling is maintained throughout the design with a chrome plated handle across the lower width of the cupboard and soft cushioned closing. The tall cupboard's dimensions are 1590 x 390 x 250mm.

www.alape.com

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### Sheerhome

'The Hotel Collection' by Sheerhome is a carefully selected elegant and exclusive range of headboards. 'The Continental' is bedroom style at its best. It fits easily to any Divan bed, has a deep padded double upholstered finish and is available in high grade upholstery fabrics Height 90cm x 7.5cm.

www.sheerhome.co.uk

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### Belle Maison

French Ladder Back Chair is the same as our French Ladder back except it can now come with an upholstered calico seat and is finished in our new heavily distressed cream - £125. French Style Table made from 100% real wood, it has a solid Poplar base and chunky 30mm Oak top. The base is finished in an authentic heavily distressed cream and the top is weathered Oak. www.bellemaison.com



### Ecosmart Fire

The EcoSmart Igloo is designed with a futuristic appeal to enhance any contemporary décor. It is distinctive and original, featuring a toughened glass surround. A stainless steel bench is suspended between the glass surround, and this unique form allows the flame to dance in many directions off the reflective glass panels. www.ecosmartfire.com



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### **Itho Ventilation**



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For a whole-house ventilation system, the SAP Q eligible HRU ECO 4, which also has a heat recovery of up to 91%, will be available. ...searchable information archive at www.sbhonline.eu

Tel: 0870 460 6741 www.itho.co.uk

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### **Itho Ventilation**

There's no escaping that by 2016, every new home built in the UK must emit zero carbon if it is to comply with government legislation. Building airtight homes will help achieve this, but at what cost? Every Wednesday, Itho Ventilation Limited holds a free training day at its head office in Burton on Trent to address



issues of airtightness and to discuss mechanical ventilation as a solution. The training day includes three, one-hour CPD Accredited courses, product demonstrations and question and answer sessions.

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Tel: 0870 4606741

www.itho.co.uk

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### Abode

The Abode Ratio Professional tap offers cutting edge, up-to-the-minute creative styling with multiple functionality. This compact version of the larger industrial style tap is designed to complement a contemporary kitchen without dominating the space. Available only in chrome finish, the moveable spout and single lever operation allows for



one-handed control of flow and temperature. This high specification monostem mixertap is also designed to provide flexibility in food washing and preparation with its extendable pull-out hand spray. ...searchable information archive at www.sbhonline.eu

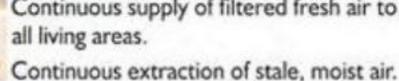
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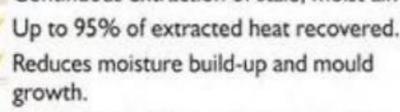
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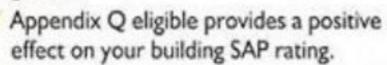
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E: info@centralvacuums.co.uk www.centralvacuums.co.uk

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### **Hudson Reed**



Hudson Reed launches the Eco-Click mono basin mixer in the Tec brassware range, at the same price as the standard model. Helping customers to save water, and water heating bills, Hudson Reed introduces the "Eco-Click" mono basin mixer into the popular Tec range of bathroom brassware. On the inside the high tech ceramic disc Eco-Click cartridge developed by Hudson Reed includes two settings. Opening the flow to the first

'click' stop allows up to 50% of the possible flow. Lift the flow control further and a second click provides full flow when required.

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### **Mira Showers**

The latest shower range brochure from Mira Showers is available and includes even more choice for installers, merchants and retailers to offer their customers. The stylish A4 full-colour brochure features stylish new photography and offers showers to suit all styles and budgets.



A new section at the front shows the latest new products for introduced at the end of 2008 for 2009 including the stylish Flight Low shower tray. Other recent additions include the new Bijou, and the innovative Elevate electric shower, combining a shower with useful storage.

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# A Guide to Heat Recovery Systems

ow that whole house ventilation systems are firmly on the list of "must haves" for new build projects, what is there to help buyers choose between available units in the market?

Whole house ventilation incorporates a heat exchanger for recovering heat from the exhausted air of the building. The level of efficiency and overall performance of units are tested by BRE. Systems that achieve a high pass mark are awarded Appendix Q status. This independent testing ensures that units with appendix Q status are airtight, have low energy motors and efficient heat exchangers.

Systems are tested using rigid ducting.

It is imperative that rigid ducting is used to enable the test results to be inputted in the SAP calculation to claim the performance benefits. If rigid ducting is not used, a default setting must be applied for the buildings in question. Since April 2008 the defaults have changed in SAP for MVHR systems and the implications can be huge if the design has included the benefit but it is not realised on site.

Rigid ducting has the added benefit of being air tight and easier to design correctly. It does not transmit noise and is very durable.

A useful installation check list is available from the SAPQ website which also gives guidance to the type of installation that is expected to be seen. The web address is www.sap-appendixq.org.uk

Look out for these features when choosing a heat recovery system:

- Automatic summer by-pass to stop recovering heat in summer. By being automatic you will not need to manually remove the bulky heat exchanger which could be located in a far away part of the loft.
- EC motors have the benefit of being controllable to ensure systems are configured exactly fro your home.
- Appendix Q Status
- Rigid ducting, preferably with rubber seals for air tightness.
- Compatible with ground to air heat exchangers Increasingly, a number of installations are now incorporating earth pipe technology to pre-heat outdoor air before it is brought into the building. Like all good ideas, this is really simple. The ground is a constant 10 degrees Celsius just one meter below the ground all year round. Using a duct that prevents any mould growth, air is brought into the property via the ground and into the ventilation system. This has the benefit of pre warming the air in winter and so adding to the efficiency of the whole house ventilation system.

Cooling to the property is achieved in summer when outdoor air is then cooled using the same earth pipe. It is often overlooked that as much energy can be consumed cooling a property as is spent heating them.

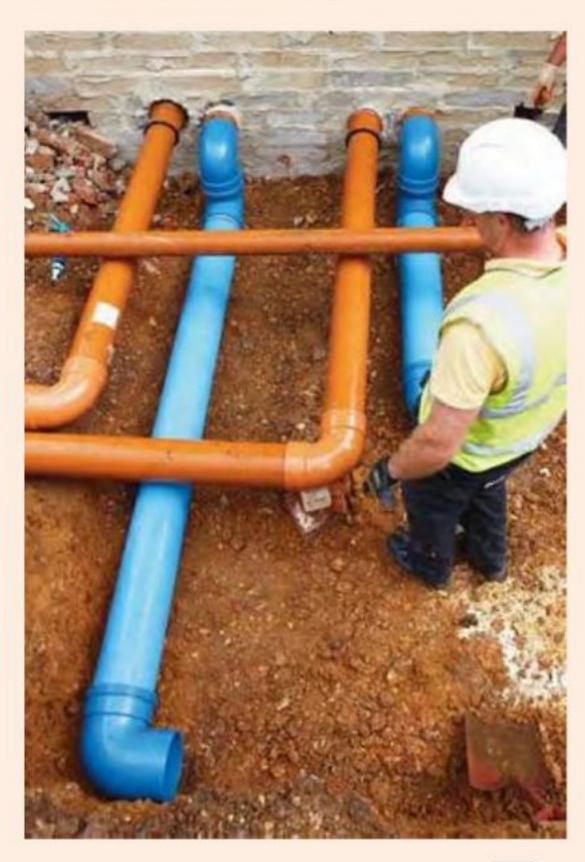
Comprehensive computer software combined with CAD drawings enables systems to be designed efficiently. Airflows can be accurately predicted and ducting layouts and sizes can be predicted and planned to ensure the installation is straightforward. Once the

mystery of how to install the ducting is overcome, the work of assembling the pipework is very straightforward.

Most systems are installed by plumbers and existing labour on site. A growing network of approved engineers is also another way to have a system installed.

Previous attempts to install systems from schematics and rules of thumb have lead to systems being noisy and not efficient at recovering heat. For this reason it is essential to plan a system well and ensure all designs are comprehensive and underwritten.

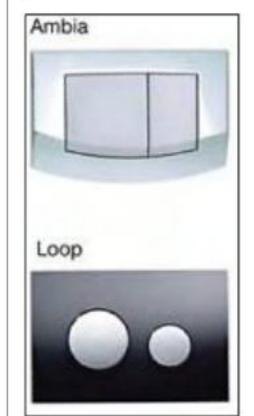
In accordance with best practice, systems should be balanced and tested using a calibrated airflow meter once completed. Self certification is permissible to save visits to site.



Starkey Systems



### **CME Sanitary Systems**



CME Sanitary Systems has extended its family of flushing plates with the introduction of new models into the Ambia and Loop ranges. These new plates join the existing range of WC wall-hung frame systems, which when combined, create the ideal sanitary system solution for any new-build or renovation project. Available in different colour finishes in line with contemporary bathroom designs, the new push plates combine an attractive appearance with a robust construction. This makes them ideally suited to a wide variety of domestic and commercial applications for both new work or refurbishment projects.

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Tel: 01509 217671 www.macdee-systems.com

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### **Pegler Yorkshire**



This year's KBB has been the launch pad for the very latest brassware ranges from Pegler Yorkshire. Storm is at the cutting edge of design, with a mix of rounded shapes and minimalist designs. Storm is simple and elegant, with distinctly angular features in the overall design. Boasting a magnificent seven-piece selection of bathroom brassware, Storm is a perfect marriage of form and function, with the tubular style of the tap body being offset by the more angular handles and spout.

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Tel: 01302 560560 www.pegler.co.uk

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### Roman

Roman have launched a Pre-formed Shower Floor which is designed to make the installation of a wetroom as simple as possible. Roman's Pre-formed Shower Floor, which was previewed at the KBB 2008 Exhibition, can be placed directly down to joists, it is then simply tanked and tiled over to create an



ultra modern wetroom. The Pre-formed Floor then creates a natural fall towards the waste, eliminating the need for the installer to create the drainage slope with adhesive.

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Tel: 0845 050 7611 www.roman-showers.com

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### **Hepworth Terracotta**

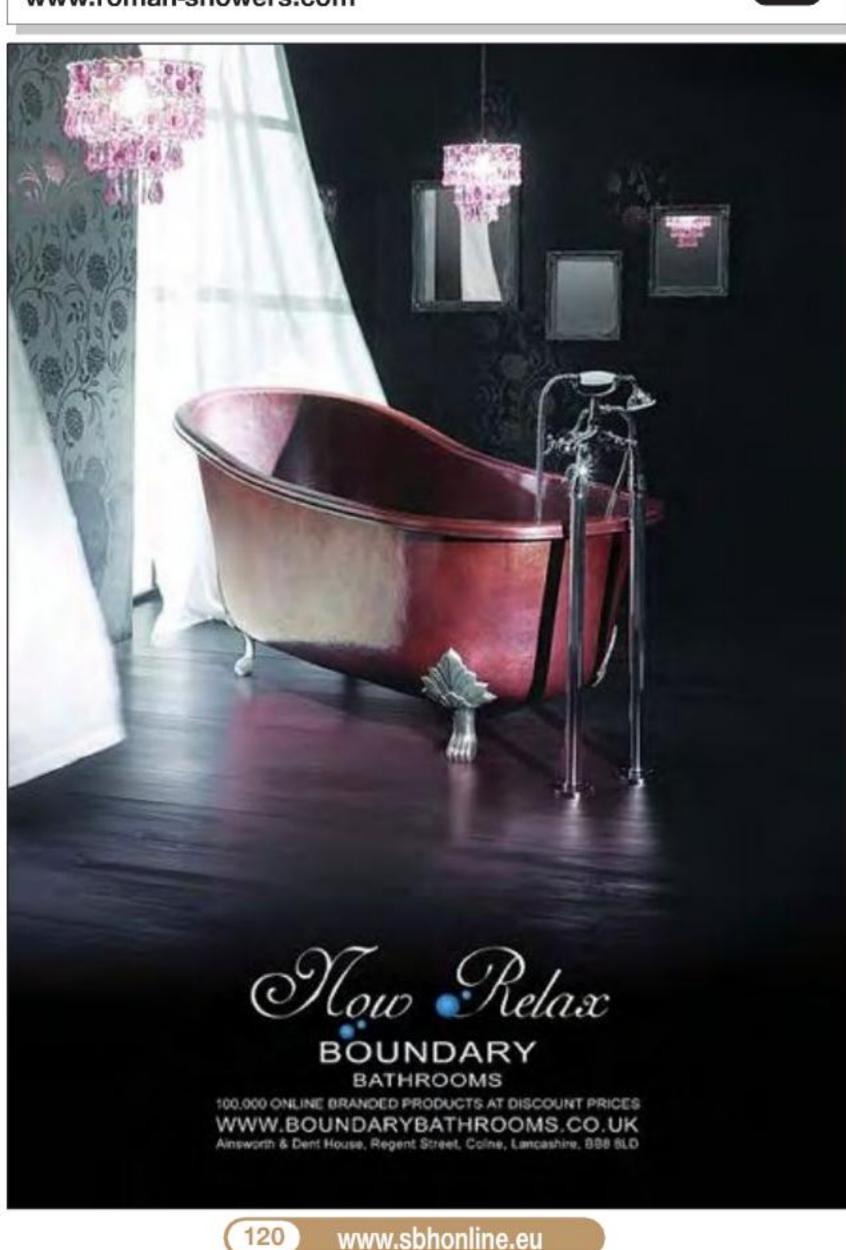
Airbricks are a necessary component for any new home, but they don't have to lack style as the experts at Hepworth Terracotta can testify. Product Manager for Hepworth Terracotta, Paul Wydell explains: "Terracotta products are often the preferred choice for properties, particularly for more traditional builds. They tend to better complement the



bricks and general design of the building, ensuring a consistently high end finish. Over time terracotta airbricks weather naturally ensuring that harmony is achieved with the brick or stone around them.

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# Wetrooms Installation Guide

Wetrooms are the ultimate modern style statement.

They are a sought after look and more and more consumers are looking to install them. David Osborne, Managing Director of Roman, takes a look at how to install one utilising a pre-formed shower floor...

nstalling a wetroom is a simple process; you are building up a series of comprehensive barriers which reinforce each other, the only additional tasks to tiling are preparing the room with a primer, sealing all joints with sealing tape and then applying the tanking membrane, which is simply rolled on to the floor and walls. It gives your bathroom a failsafe protection against leaking, unlike a standard bathroom which has no protection. There are also now pre-formed trays available to sit under the floor, which you then tank over. These create a slope towards the drain, making the installation process

even more straightforward.

There are several ways of constructing a wetroom, but each have some basic principles that must be observed;

The floor should be screeded, constructed from heavy duty wooden sheets such as plywood or created using a pre-made shower tray former. In all cases there must be a gradual slope to fall towards an appropriate shower outlet, the structure must be solid without flexing, and any joints in the construction material must be firm and well fitting.

The body of the shower outlet must be recessed or cast into the floor in such a way

that the top of the flange is on a level or fractionally lower than the floor surrounding it. There can be no step upwards into the shower outlet.

Some tanking systems are not compatible for use directly over conventional narrow wooden floorboards. These can be replaced or covered with a sheet material such as plywood.

### Step 1 Supporting the Pre-formed Floor

A pre-formed shower floor can be installed directly onto joists without additional support, or to a concrete floor. It can be trimmed down if necessary and is screw fixed to the joists.

WBP/Plywood can then be used to complete the level shower room.

### Step 2 Preparation

Ensure all surfaces in the construction area are dry, solid, supportive and level, as well as free from oil, grease, dust and other separating layers.

### Step 3 Applying the Primer

The floor area of the room should be primed with a turn up of 100mm onto the wall.

The walls should also be primed floor to ceiling in the showering area, and in the splash zone of the shower, normally 100mm past the showering area. Leave the primer to cure.

### Step 4 Apply the Outlet Sleeve

Apply the outlet sleeve; this is usually self-adhesive. Ensure it is flat with no raised edges, creases or bubbles. The centre of the outlet sleeve should then be removed and the waste traps clamping ring fixed into position.

### Step 5 Apply the Tanking Tape and Pipe Sleeves

The tanking tape and pipe-sleeves are bedded down using the tanking compound. All wall-to-wall and wall-to-floor junctions as well as butt joints and nail or screw heads must be reinforced with the tanking tape. The compound should be applied using a medium size paint brush.

### Step 6 Pre Checks

Ensure the tape, pipe-sleeves and outlet sleeve have been fitted to the appropriate areas and wait until the tanking compound is dry.

### Step 7 Apply the Tanking Compound

The entire floor area of the room should be tanked with a turn up of 100mm onto the walls. The walls should also be tanked floor to ceiling in the showering area and in the splash zone of the shower, normally 100mm past the showering area. The recommended finishing thickness is 1mm which can usually be achieved in 2 or 3 coats.

### Step 8 You can now start tiling the room

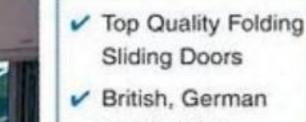
Once all these steps have been completed you can then finish the room to your design. For the ultimate in indulgence, complete the look with a 10mm thick wetroom panel and add a multi-function shower valve with the option of a drencher head, multi-mode hand shower and body-jets.

light

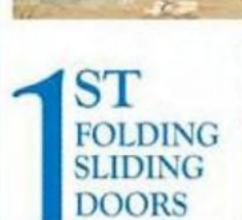
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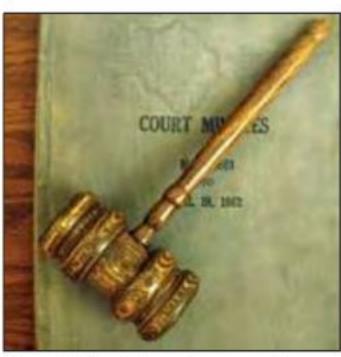
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### Remmers (UK)



Remmers fast curing, structural waterproofing materials are being used to tank the basement at the new Supreme Court of the United Kingdom. The court will start work in October 2009 at a cost of £57million and it's fundamental role will be to hear appeals from courts in the United Kingdom's three legal systems. The basement has been waterproofed using Remmers Sulfatex

Grout Rapid waterproofing system which allows the specialist waterproofing contractor to apply a full system within just one day. ...searchable information archive at www.sbhonline.eu

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### Wykamol

Wykamol have launched the Geotex triple-layer membrane system. Quicker, easier and cleaner to install, with less preparation required, it can be used down to 10m below ground on most foundation materials including ICF and concrete. Used over a primary coating of Technoseal DPM and in conjunction with an Aquadrain ground drain, the membrane has an integrated inner slip membrane with welded-on geotextile to the outer surface. The system includes all fittings and capping detail for finishing.



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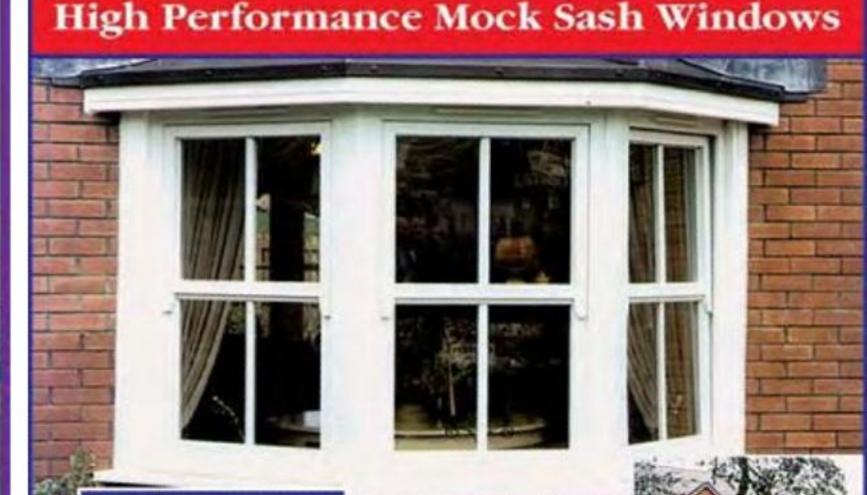
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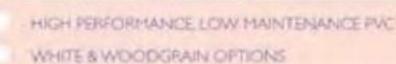
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### Garador



Garador have released a new PVC garage door panel that provides a clean, crisp and impact resistant surface. The Sherborne PVC door is available in standard sizes and comes with all the benefits of a Garador, as well as the additional options offered by the manufacturer. The PVC panel is built around the robust Garador box section chassis and provides high quality

engineering with a material that perfectly matches the PVCu doors and windows commonly found on homes throughout the UK.

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Tel: 01935 443722 www.garador.co.uk

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### Hörmann UK



Hörmann UK has moved an integral part of its Series 2000 garage door manufacturing process closer to home. The painting of the garage doors will now be carried out here in the UK, a move which will benefit customers as lead times will be significantly reduced. The full range of 15 RAL colours will still be available for all double-skinned doors. Hörmann UK is now also offering the full 15 RAL colour options, as well as a black option, for the single skinned LTE range of garage doors.

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Tel: 0800 083 7216 www.hormann.co.uk

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### **Howarth Windows & Doors**

A new and comprehensive 140-page full colour brochure detailing all Howarth Windows & Doors' extensive ranges has just been launched and it features a number of leading edge products that have achieved top ratings in the British Fenestration Rating Council (BFRC)



'Window Energy Rating' benchmarking system. Amongst the vast array of options, the catalogue highlights Howarth's new triple-glazed range, which is designed to provide the ultimate in energy performance whilst maintaining the attractive aesthetics of Howarth's flush fit range.

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### **JB Kind Doors**

Spice up your life with JB Kind's new 12 door Veneered Moulded Flush range. These high density fibreboard doors combine moulded flush features with real oak or walnut veneers and offer a high quality varnish finish. Named after spices, these robust doors will now be enjoyed by a wider market



thanks to JB Kind's cost effective pricing policy. As is common place with JB Kind doors, this range is also available as FD30 fire doors.

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Tel: 08700 607567 www.jbkind.com

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Manufactured to order to customers specifications, using the company's tried and tested sections in European Oak and durable hardwoods.

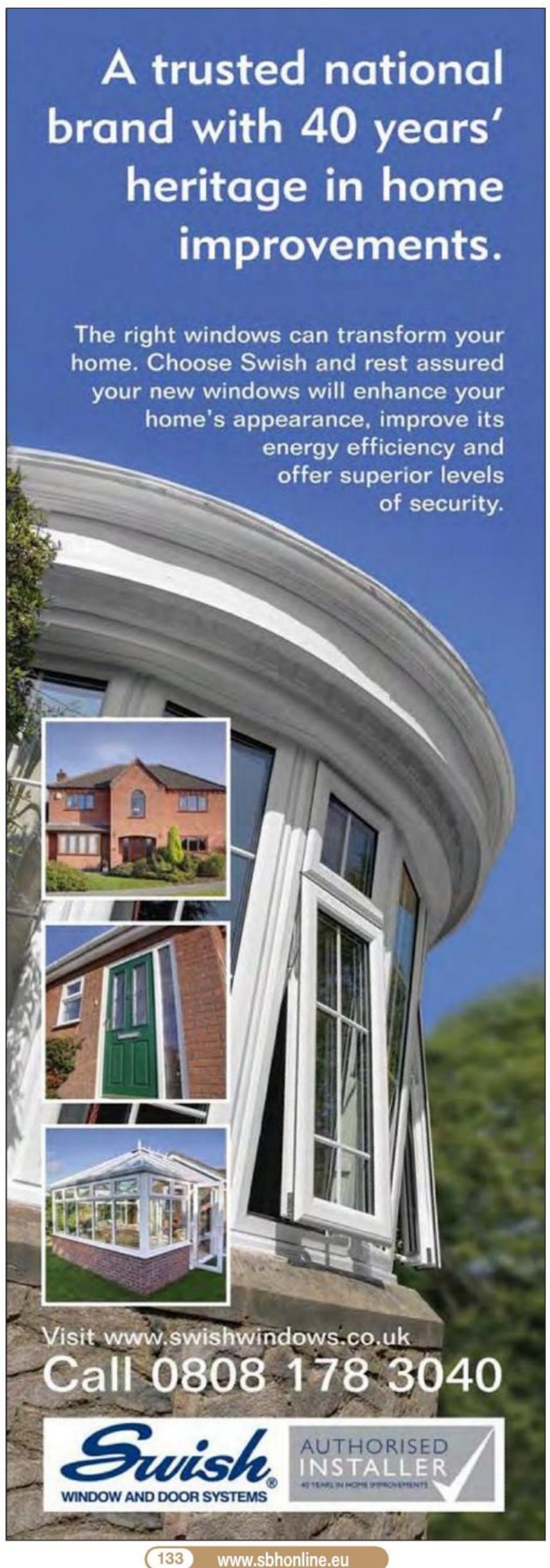




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# eco & heating December/January 2009 Supplement



### **Burdens Environmental**



Launched less than two years ago, Burdens Environmental - the explicitly 'green' arm of Burdens- has added a new product to its increasing range of environmentally friendly products. Called 'Eco Paint', and available in a range of 37 colours, this new product avoids the irritation and health problems that conventional gloss paints and emulsion paints can cause through the in-built solvents. Fragile Earth's Eco Paint is a unique non-toxic high-performance powder paint that is easily mixed with water to produce a durable matt-finish interior coating.

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Tel: 0845 601 1188 www.burdensenvironmental.com

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### **Grundfos Pumps**



Grundfos are pleased to announce the release to sale of their new condensate removal pump the Conlift L, which means there are now two models of condensate removers. the original Conlift and the

new, more compact, Conlift L. The Conlift L has 4 inlets for flexible installation and new fittings that allow connections to be made to standard 32mm & 40mm pipework. Condensate pumps can be used everywhere that condensate produced from latent water vapour needs to be removed on a regular basis.

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### **SolarVenti**

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### **Ideal Stelrad**

Former England rugby international star, Austin Healey, has received another perfect delivery with the installation of an Elise high efficiency boiler from Ideal Boilers at his home. The Elise HE is compact, but powerful, providing homeowners with a modern, fresh

look ideal for smaller spaces such as kitchen cupboards, together with

the highest levels of energy efficiency. SEDBUK-A rated and offering low NOx emissions, the Elise HE is specifically designed to provide installers with greater SAP design flexibility.

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Tel: 01709 578 950 www.idealboilers.com

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### **NIBE Energy Systems**



NIBE Energy Systems will be showing a wide range of its products on Stand 1557 at Ecobuild 2009 in early March next year at Earls Court in London. With the sharply rising interest in energy conservation from the public, the industry and

from Government, Ecobuild is expected to be a vibrant occasion and its billing as "The world's biggest event dedicated to sustainable design, construction and the built environment" seems well justified. ... searchable information archive at www.sbhonline.eu

Tel: 0845 095 1200 www.nibe.co.uk

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### **CVO** Fire



CVO Fire has designed a range of Open Flamed Gas Fires. Designed to be admired, the clean burning open flame is delightfully captivating and will bring a room to life. This is contemporary styling at its best achieving the perfect balance of function and form, and also one of the slimmest fires on the market with only minimal projection from the wall. The wide range of interchangeable fascia options means this fire is equally at home in a contemporary or traditional home.

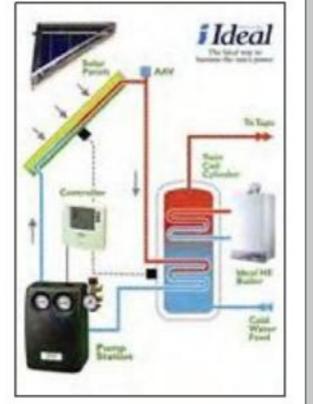
...searchable information archive at www.sbhonline.eu

Tel: 01325 301020 www.cvo.co.uk

307

### **Ideal Stelrad**

Ideal Stelrad is heating up the solar market by launching an energy efficient and simple to install solar water heating system; Ideal Solar. Specifically introduced to further extend the company's comprehensive product offering, it now means installers, specifiers, social housing organisations and local councils have a 'one stop shop' for all their heating needs. This includes Ideal Solar, along with Ideal Boilers' range of HE appliances and Stelrad's extensive range of radiators. Ideal Solar can be roof mounted to obtain maximum energy from the sun.



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Tel: 01482 498663 www.installerconnect.com

308

### Schiedel Isokern

The Schiedel Isokern DM system has a specially designed access block to allow the outlet pipe from the cooker fit directly into the chimney. The chimney can be fitted internally or externally with the connection pipe passing though the wall of the building. The Schiedel Isokern DM System is a neat and simple solution that offers modular, prefabricated units to speed construction and facilitate consistent quality standards. What's more the DM system is made with Pumice, a natural insulator, sourced from the Hekla Volcano in Iceland. The unique insulating property of Pumice separates it from all other chimney materials.

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Tel: 01202 861650 www.isokern.co.uk

### **Subtle Styling**

Designed and hand-built in the U.K, the subtle styling and pleasing proportions of the **Firebelly** Stoves ensure they look at home in any interior. The huge glass window gives the wood burning flames priority and creates a great ambience when the stove is burning. The unique and uninterrupted 'air-shield' system helps maintain the view by keeping the glass panel clean, whilst the air convection channels distribute heat evenly and efficiently into the room. Heat reflective fire bricks line every face of the firebox keeping the fire bed at optimum temperature.





310

### **More Thermally Efficient**

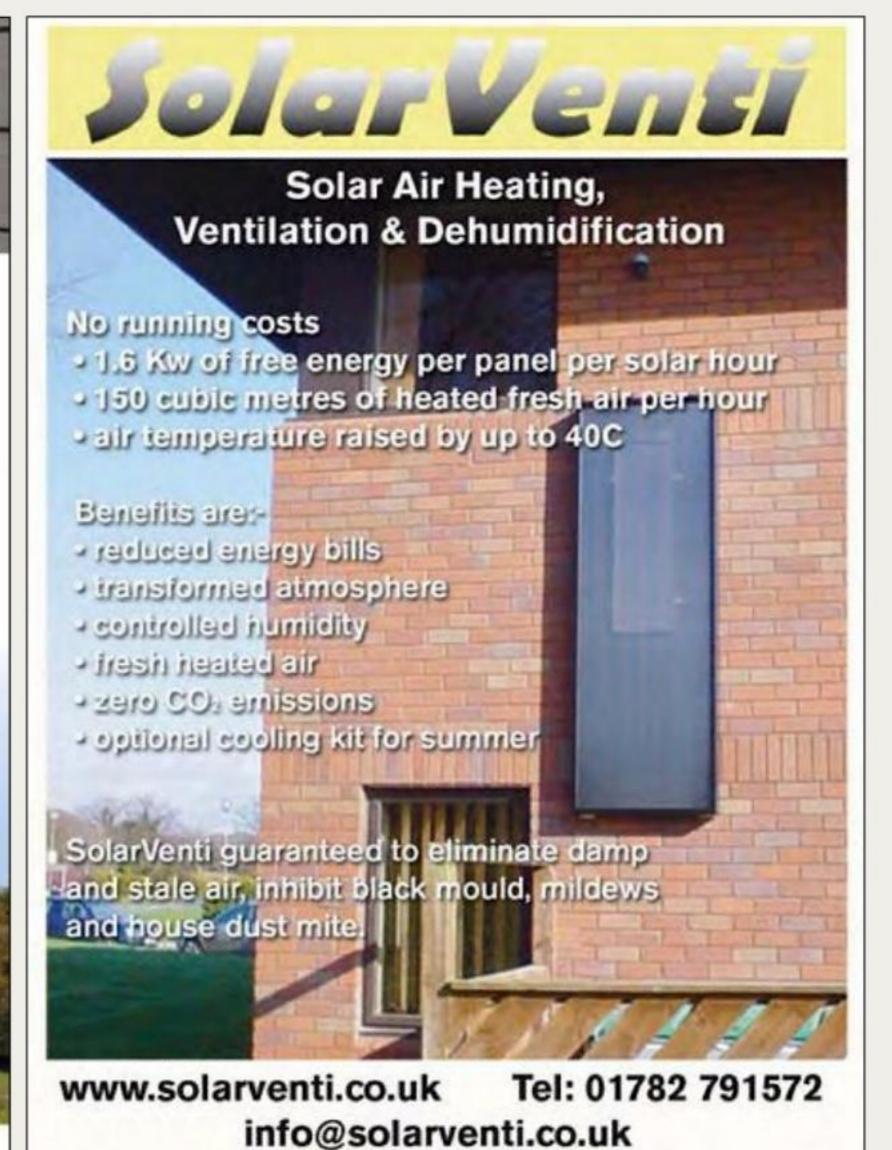
Advanced Plus, the first UK aluminium system to achieve an 'A' WER (Window Energy Rating) with a double-glazed sealed unit. It features a state-of-the-art polyamide thermal break and a U-value as low as 1.3w/mK², which qualifies for Level 4 of the Code for Sustainable Homes. Windows and doors supplied to this standard exceed all current regulations and bring benefits to the consumer in terms of a more thermally efficient product and lower SAP rating.

311

### **Innovative Products**

H20 Water Management is a manufacturer of high quality, innovative, efficient and sustainable products for the treatment and management of water. The low profile Modulus 6 population equivalent Treatment Plant for example is a 3 tank system (sewage treatment is a 3 stage process after all) which has an invert of only 1 metre, making it ideal for installation in difficult ground conditions and significantly reduced installation costs, and, as with all of our tanks, they are manufactured right here in the UK from high quality HDPE.

High strength
Environmentally fromdy
South and the control of the





### **Thermal Economics**

Following on the success of the loft conversion product Raftertherm 55, a higher performance, thicker version, Raftertherm 100, has now been launched to meet the new build U=0.2 m<sup>2</sup>/Kw requirements. Raftertherm insulation boards provide thermal insulation and an integral vapour control layer and are factory manufactured to fit standard rafter centres of 400mm and 600mm. Installation thus becomes a simple, single stage operation, making cost savings in both labour/time and by eliminating much wastage. The unique feature common to both products is the Alreflex foil/bubble lamination, which enhances the insulation performance and provides the integral vapour barrier, which eliminates the need for eaves and ridge venting. Both the PUR board and Alreflex Foil components of these two products are BBA assessed in accordance with the most recent BR.443 stipulations and as such offer a viable alternative for previous multifoil users. Thermal Economics can provide calculations as required by Building Control under the new Part L1B requirements simply by calling their technical department.

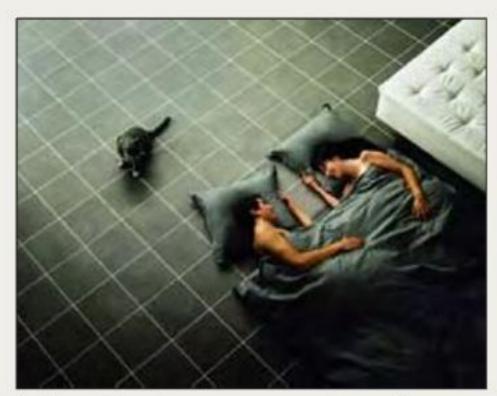
Tel: 01582 450814 www.thermal-economics.co.uk

315

www.sbhonline.eu

### **Purmo**

Purmo has launched the Eljet, a new electric underfloor heating mat system, designed with the self-builder and DIY-er in mind. The Eljet's high standards and exceptional quality underpins its design, safety, and calibre. Designed to be very user friendly, Purmo's Eljet comes with a thorough instruction manual that includes informative



pictures demonstrating the installation. The ten-year warranty on the heating mats as well as the two-year warranty on the room temperature controller guarantees a high level of quality and safety.

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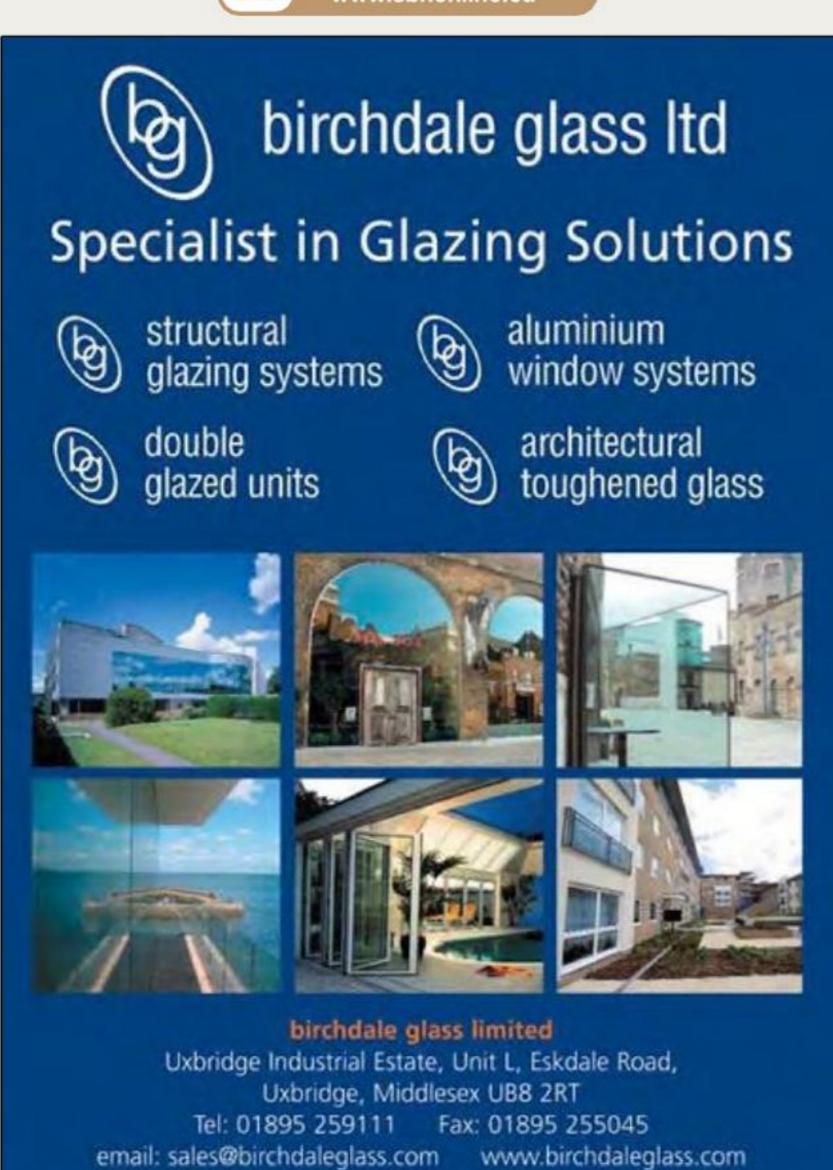
### **Underfloor Heating Supplies**



In a pledge to reduce waste and landfill,
Underfloor Heating
Supplies Ltd is one of the first underfloor heating companies to supply its systems with 'green' recyclable pipes.
The green pipes are now the standard piping for

Underfloor Heating Supplies' range of high quality and efficient Komfort heating systems. These German-made polyethelene raised temperature barrier pipes stop the ingress of oxygen into the heating system and are fully recyclable at the end of life. Underfloor Heating Supplies offers five different Komfort Systems, designed to suit a variety of applications.

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### **Free Energy**

SolarVenti has released a new report that demonstrates the amount of free energy available from its SV30 unit for heating homes, second homes and commercial properties. The report data shows that a single SV30 generates up to 2kW per hour of free energy, even in external temperatures below the annual UK average of 14°C. During daylight hours, a SolarVenti SV30 will warm incoming air to between 30 and 40°C higher than the outside temperature. Customers can significantly cut their heating costs and carbon footprint by using this free energy to heat internal spaces.

320







### A Revolutionary Material

Twinson® by **Deceuninck** is a revolutionary material combining Pine and PVC. It offers the natural appearance of wood with the low maintenance benefits of PVC. Twinson® O Face is a range of cladding planks that can transform a building's envelope with a natural wood effect. From front to back wall, from bay window to roof line, Twinson® O Face gives instant kerb appeal. Twinson® O Face is available in 8 different shades, so there's a colour to suit every installation.

### **Innovative Design**

Combining innovative design with market-leading efficiency, the xeoos TwinFire promises to be a hit in 2009. Available from Anglia Fireplaces, the xeoos is a contemporary and stylishly-designed inverted wood burning stove that cleverly draws flames downwards to a visible bottom fire chamber. Not only does this inverted eco stove make for an impressive and unique focal-piece to any room but the TwinFire boasts an efficiency rate of 93%, making it one of the world's most environmentally-friendly stoves.

### **Grundfos Pumps**



As part of their commitment to continue to support the industry, Grundfos Pumps have completed a full review of the training courses they offer and are now pleased to advise on their new training schedule for 2009.

The diverse range of course topics covers a range of

applications including: heating, water boosting, ground water & sewage as well as courses that look at variable speed technology and solutions. All are available on a range of dates throughout 2009. ...searchable information archive at www.sbhonline.eu

Tel: 01525 850000 www.grundfos.co.uk

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### **Grundfos Pumps**



Grundfos recently made the draw for their GPlus Ecademy raffle at PHEX Chelsea. The Ecademy is an online training facility provided by Grundfos free of charge for Industry Professionals. There were many ways of gaining tickets for the Ecademy raffle, including completing the training

modules and answering the question of the week on the site. The lucky winner of the first prize of 500,000 points to spend in the Ecademy gift shop was Mr Lewis Kemp of PHASE NRG Ltd.

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Tel: 01525 850000 www.grundfos.co.uk/gplus

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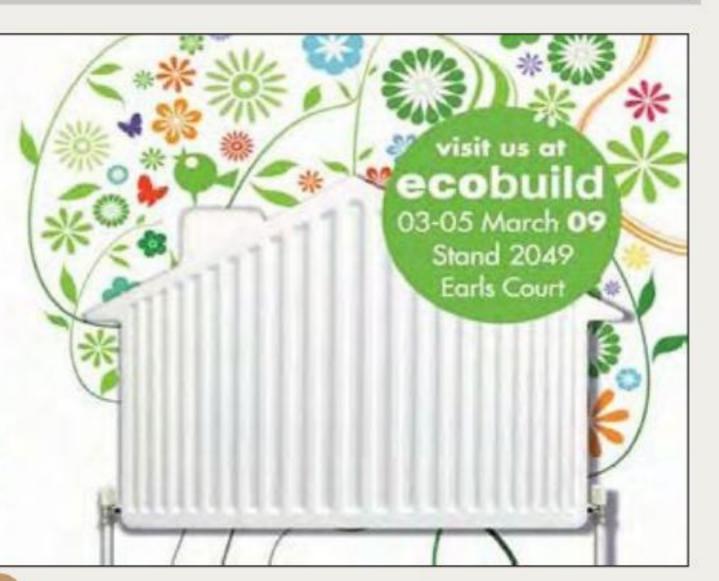
make a house a sustainable home with Ecodan, the low carbon alternative to a traditional gas or oil boiler. Installing Ecodan will reduce a home's running costs and its CO2 emissions, as well as helping to comply with the Code for Sustainable Homes.

For more information visit www.mitsubishielectric.co.uk/heating









### **Cost-Efficient**

Energy Research, is a composite laminate of aluminium foil, a tough polyethylene film and metallised film finished with a non-tarnish coating. The liner prevents heat radiating through structures, is an excellent vapour barrier and helps make homes air-tight. Used to replace the usual vapour barrier, it greatly improves heat retention when cold outside, yet helps keep a home cool during hot weather. In combination with fibre insulation, it provides the most cost-efficient insulating method available for your new home.







### **Comfortable Conditions**

The **Robbens** Single Room packs for warm water underfloor heating are designed specifically for extensions and conservatories. They are available in three practical and cost effective size ranges up to 42 sq. metres. Designed for use with solid/screeded floors with tiled or carpet finishes, they'll give comfortable conditions when operated on minimum room temperatures in accordance with the detailed installation instructions provided. Manifolds are supplied fully assembled and ready for fitting.

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### **Greater Savings**

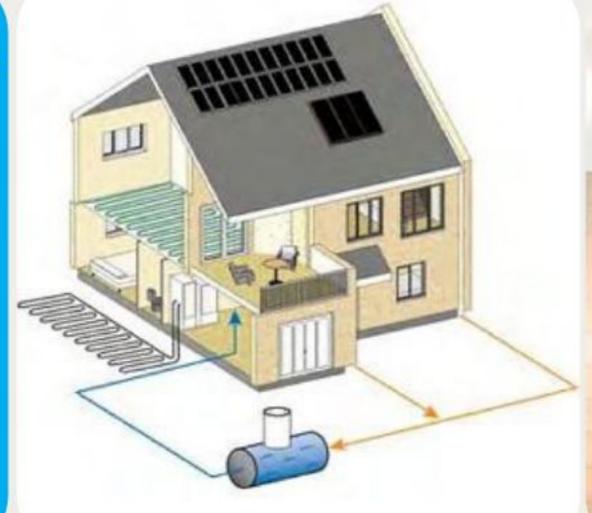
Mitsubishi Electric has confirmed that it is continuing its association with the British Homes Awards organised by The Mail on Sunday. The Ecodan® range of air source heat pumps is Mitsubishi Electric's offering to help households reduce both long term carbon emissions and running costs. The systems can help cut running costs by over 30% and cut CO₂ emissions by 50% against even the most modern gas condensing boiler. Savings over oil, older gas boilers, LPG or direct electric systems are even greater.

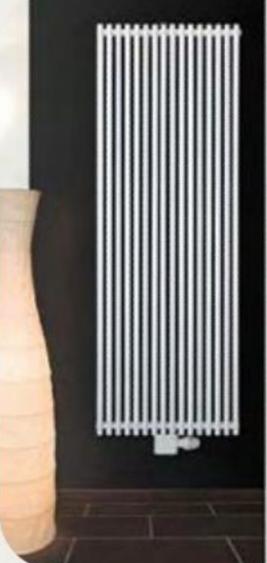




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### Powered by the Impossible

The heart, unmatched for its reliability, adaptability and efficiency, is the perfect pump and the inspiration behind Grundfos' desire to make the World's best circulators. In fact, their ultimate goal, however impossible it may seem, is to create a circulator that is as good as the human heart, they really are Powered by The Impossible. Like a heart, a circulator must be able to change its performance to match the changing demands of the system and thanks to the unique Grundfos AutoAdapt function, their A-labeled circulators can do just that. 332

### **Breakthrough Features**

Agadon's technical experts have come up with a new type of radiator that combines excellent heating efficiency with very high levels of design. The breakthrough features have been incorporated into two initial designs with more set to come soon. The new Gaja tube radiator has an output of up to 8,069 Btu and the Atlas reverse panel radiator betters this at up to 9,127 Btu. The new radiators come in a variety of different coloured high quality powder coated finishes, are available from stock, and are all offered with a five year manufacturer's guarantee. 333



Designer radiators without the design prices

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 The xeeos efficiencies are based upon the German Din 18891 and the EN 13240 which outline the efficiency of the TwinFire to be 90%.



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American architect Sebastian Mariscal, used his own house to celebrate open space, incorporating the spectacular ocean backdrop into his everyday living experience. Twenty five panels of the top hung aluminium profile system were installed on three outside walls.

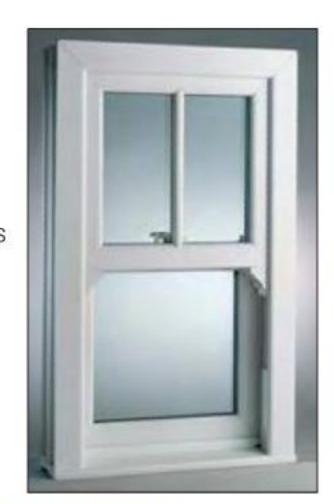
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Tel: 01924 204444 www.solarlux.co.uk

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### Eurocell

Quantum Windows, a fabricator based in Corby, Northamptonshire, has become the latest window and door business to take advantage of Eurocell's recent acquisition of Plastmo Profiles. Following Eurocell's acquisition of Plastmo, Quantum Windows took the decision to add Eurocell profiles to its offer and installers have already commented on the advantages of being able to provide their customers with more choice. Martin Saunders, Sales Director, South at Eurocell, explains: "Quantum Windows has one of the most comprehensive ranges in the market and we are encouraging all professional installers to take a look at its offer."



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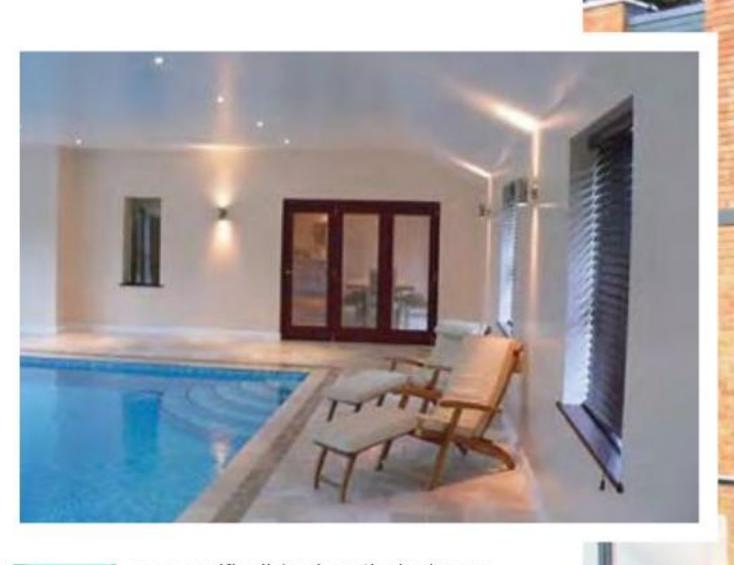
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very selfbuilder has their dream home pictured in their mind long before their final plans are submitted; maximising the outside space into the inside living area, 'bringing the outside in' has now become a desirable and almost essential ingredient to any new build making folding sliding doors a main feature in the design.

The possibilities are only restricted by the imagination; indoor swimming pools become open to the elements in the warmer months and 'al fresco' dining areas can be swiftly created by sweeping back the doors. Folding sliding doors allow a 90% opening as opposed to 40% with conventional systems, creating light and space giving more flexibility to living and garden areas.

Specialist folding sliding door companies now provide specifically designed and guaranteed hinge mechanisms along with sleek design options. This has raised both the quality and confidence in folding sliding doors since they first appeared in the marketplace making them a reliable option for giving properties the 'wow' factor.

When choosing your folding sliding doors the following issues are probably the most frequently considered and relevant to your decision:

### Top-hung or Bottom Rolling

A top-hung system will generally give a smoother glide for your doors. Check with your supplier what requirements are needed as a load-bearing lintel is essential for a top-hung system. If in any doubt discuss with your structural engineer who will be able to advise the viability for your build.

If a top-hung system is not suitable, bottom rolling systems are available. Do bear in mind that these may be higher maintenance, as the track will need to be regularly cleaned to stop any debris affecting the mechanism.

### Sill Types

For externally opening doors a flush sill is often the first choice for selfbuilders so that they can have the same flooring both inside and outside the property, or to comply with disabled access. This is achievable but do check that the sill type comes with adequate drainage. It may be advisable to opt for a system with a small weather stop to guarantee water will not enter your property. If you are having a step down to your patio or decking



then a standard sill will be necessary.

For internal doors, the track can be set into the floor for a seamless transition room to room. If your doors are between a conservatory and the main part of the house then a slightly different sill will be required to cover the necessary building regulations. Do check with your folding sliding door supplier that their sill complies with these regulations.

### Glazing

In any property where large areas of glazing are to be used, check that the glazing complies with Building Regulations and that the U-value is compatible for your build. Argon-filled glazed panels will help keep rooms cool in the summer and warm in the winter. Internal beading is also advised for additional security.

### **Inward or Outward Opening Doors**

The majority of builds suit outward opening doors although where space is limited on the outside of the property or there is a Juliet balcony, inward opening doors may be your only option. If you have the choice of either opening options do bear in mind that inward opening doors will take up valuable space inside your property and may restrict the use of curtains.

### **Opening Configurations**

Extensive opening configuration options allow the doors to glide open all to one side or split two ways dependent on how the space is to be utilised. For heavy traffic areas, choose an opening configuration with the option of a single opening door. This will give you the same access as a normal door when you do not wish to fold and slide the remainder of the doors back. Also think about where you are placing furniture when the project is finished, or where kitchen cabinets will be as this may affect the configuration you choose.

### **Finishes**

Timber has a higher thermal capacity and life expectancy than aluminium but will require regular maintenance. Choose a manufacturer who offers a fully factory finished product and check the durability of the finish.

The finished product will very much dictate the look and feel of your build. In addition to the widely available traditional stained finishes, painted doors are now available in any RAL colour giving the option for a very contemporary look and feel.

For any selfbuilder, opting for folding sliding doors will be a major part of their budget. It is highly recommended that you view your chosen product first hand with any questions you may have. Not all folding sliding doors are the same and asking key questions could save disappointment in the long term. Ultimately the decision is yours but there is no substitute for seeing the product first hand to compare the different systems and feeling how they glide. Do take time to visit your supplier's showroom and see the doors for yourself before making that key purchase.

Vanessa Morris, Director, Kloeber UK Ltd

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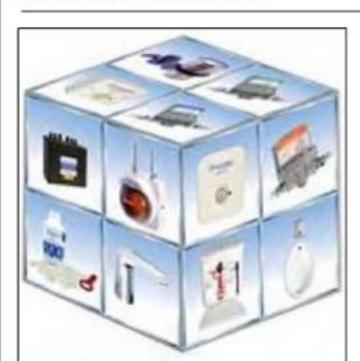
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### Cistermiser



Ecobuild Stand No 1374

Cistermiser Ltd. of Reading in Berkshire is one of the country's leaders in the development of energy management and water-saving systems for washrooms will be exhibiting at Ecobuild. Cistermiser's main products focus on fully automated, 'hands-free' water management systems and water conservation is therefore at the heard of the company's philosophy. As water costs escalate, Cistermiser products are

commonly seen in many public places such as schools, hospitals, leisure centres and even prisons.

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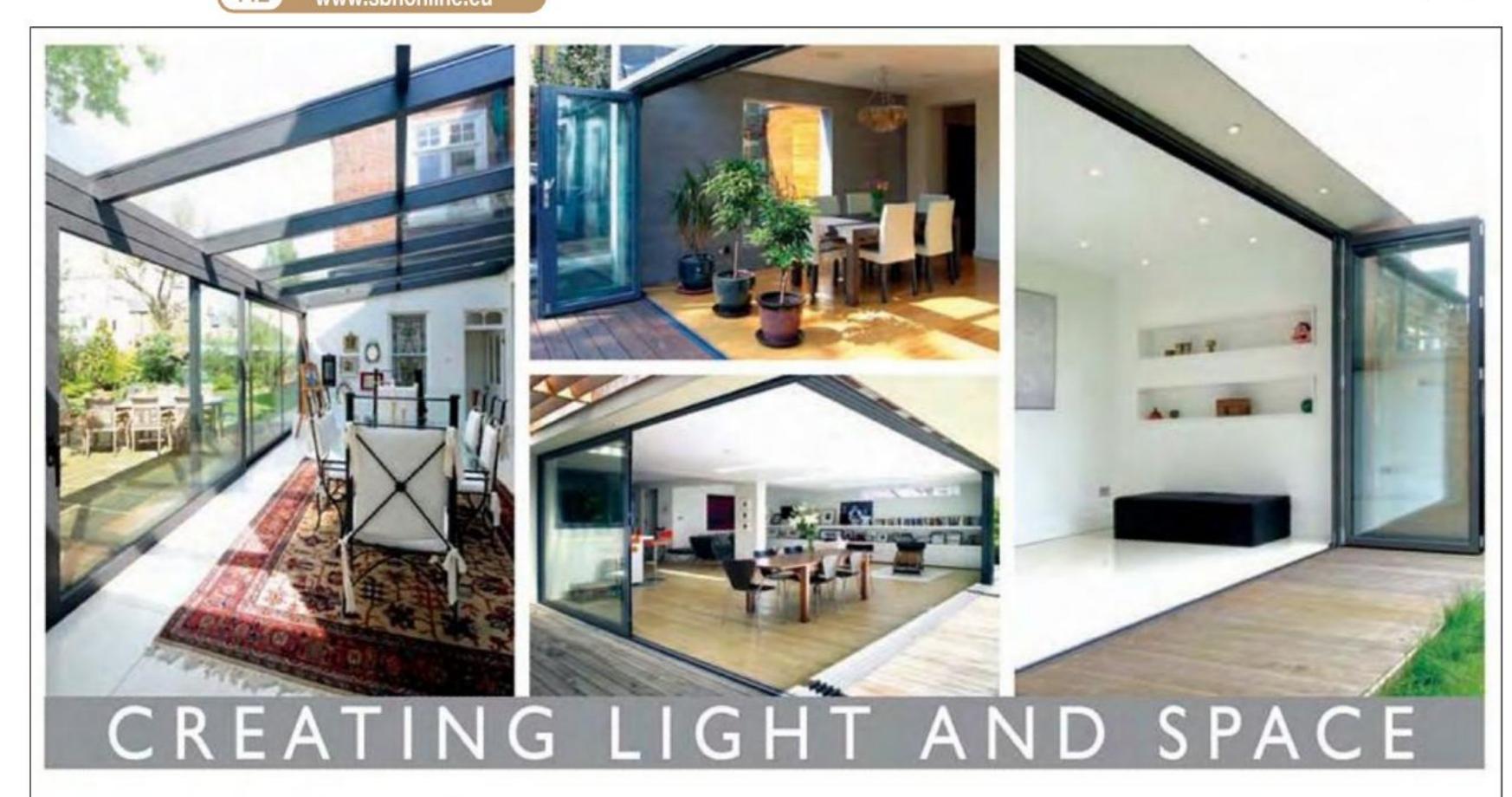
### **Deceuninck**

Belface is ideal for cladding entire buildings as well as dormers, eaves, canopies and parapets. Belface is constructed using a technique developed exclusively by Deceuninck and is made from high-quality PVC-U waste gathered from its own extrusion plants and reworked into a versatile raw material called Cyclefoam. The Belface main profile consists almost entirely of recycled PVC-U, with just a 0.5mm top layer of new material. Belface comes with a 10 year guarantee and is available in choice of colour options.



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- folding doors
   glass roofs
- sliding doors
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### **Icynene**



Icynene is exhibiting at Ecobuild in the Canadian Pavilion stand 1465. Soft foam is the fastest growing insulation material in the world today and lcynene, a spray-in-place, expanding soft foam insulation and air barrier system is 100% water-blown and contains no harmful emissions. "As proven technology, Icynene® delivers multiple benefits including superior thermal performance with up to 50 percent in energy savings, healthier indoor air by reducing condensation-related mold and mildew and reduced sound transmission, explained lcynene's Jeff Hood.

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### **WS Westin**

The latest built-in extraction system from Westin provides an important addition to their extensive range of hoods, bespoke design and manufacturing service. Westin built-in products come in a number of shapes and sizes, designed to match hob widths, with a

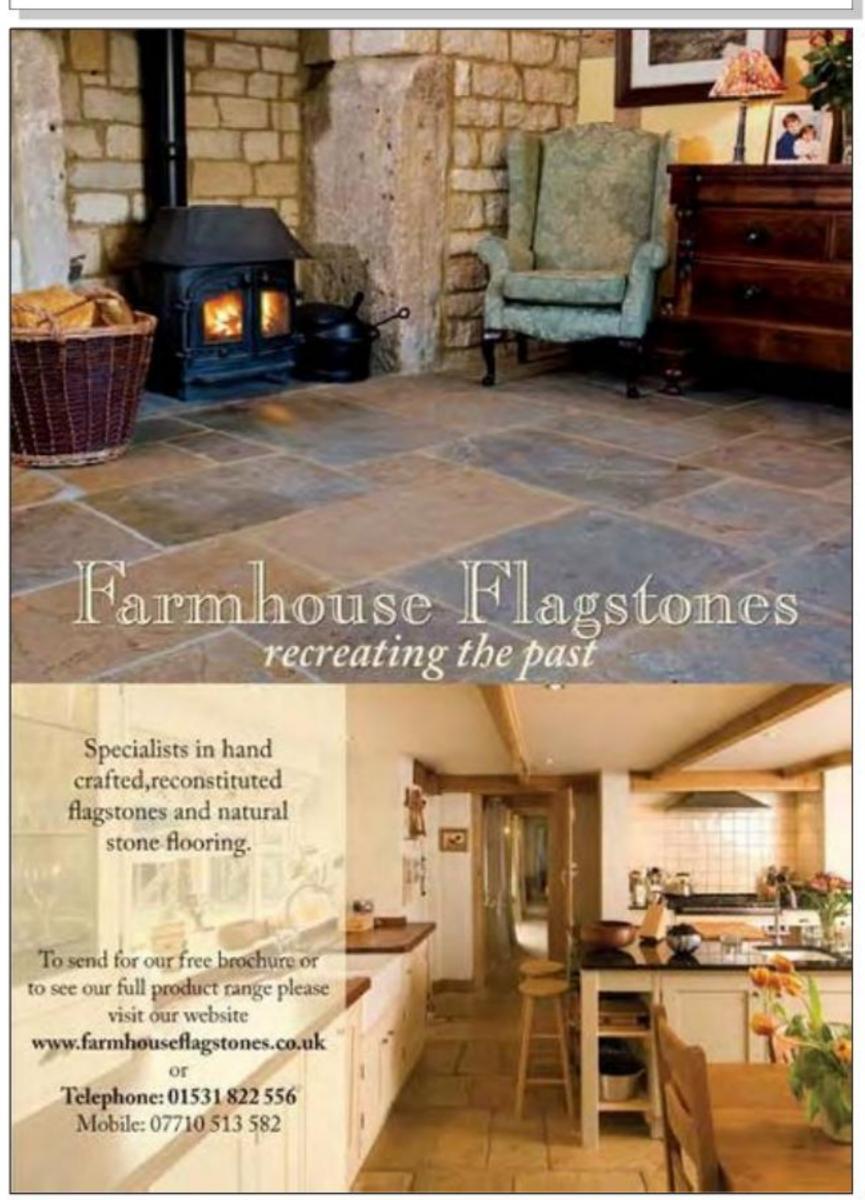


choice of 4 powerful fan ratings. Fan configuration is totally flexible and further features include dishwasher safe grease filters, halogen spotlights, and the availability of remote control systems.

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SUNALLIANCE

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The Mini Biofilter range from Allegion is suitable for grown individual homes or small population application

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# Foundations to Finishes Showcase



Outstanding underfloor heating systems and unrivalled support for Installers and Home Builders, Robbens offers systems for all floor construction methods and floor finishes - including timber floors. The system components perform to the highest standards of life and function, and are simple to install. Enjoy the benefits of the most comfortable and up-to-date heating system available, with the confidence that Robbens' support and over 15 years of experience is behind you. Self builders and heating engineers receive a superb package of advice and support, including project specific installation documentation. Robbens Systems, the name you know and trust. 154

Sensible Heat's WebManager allows full control of a Honeywell Hometronic automation system from a PC or other browsing device, either within the building or from a remote location using the internet. Any PC in the building, or a PC elsewhere on the internet, can be used to control the system. Operating times and temperatures for each room in the building may be viewed and adjusted, on/off functions (e.g. hot water service, towel rails etc) may be turned on and off and their time programmes adjusted. External signals from other systems (e.g. intruder alarms, flood detection systems) can be checked.





Farmhouse Flagstones' range of stylish flagstones are virtually indistinguishable from real stone, not very surprising as each of our styles are copied from actual originals sourced from various locations. Our Old Yorkstone molds (pictured) are taken from flagstones originally quarried from Halifax. With limited natural resources and the high cost of originals, our replica Old Yorkstone flags are the nearest you will find to the real thing at a fraction of the cost. They are available in many different shades, the most popular being traditional Cotswold, Heritage grey, and honey gold.

150mm rafter

100mm mineral fibre

150mm

Renotherm

0.13W/m2K

0.16W/m<sup>2</sup>K

0.20W/m<sup>2</sup>K

0.27W/m<sup>2</sup>K

0.27W/m<sup>2</sup>K

0.20W/m<sup>3</sup>K

100mm joist

75mm

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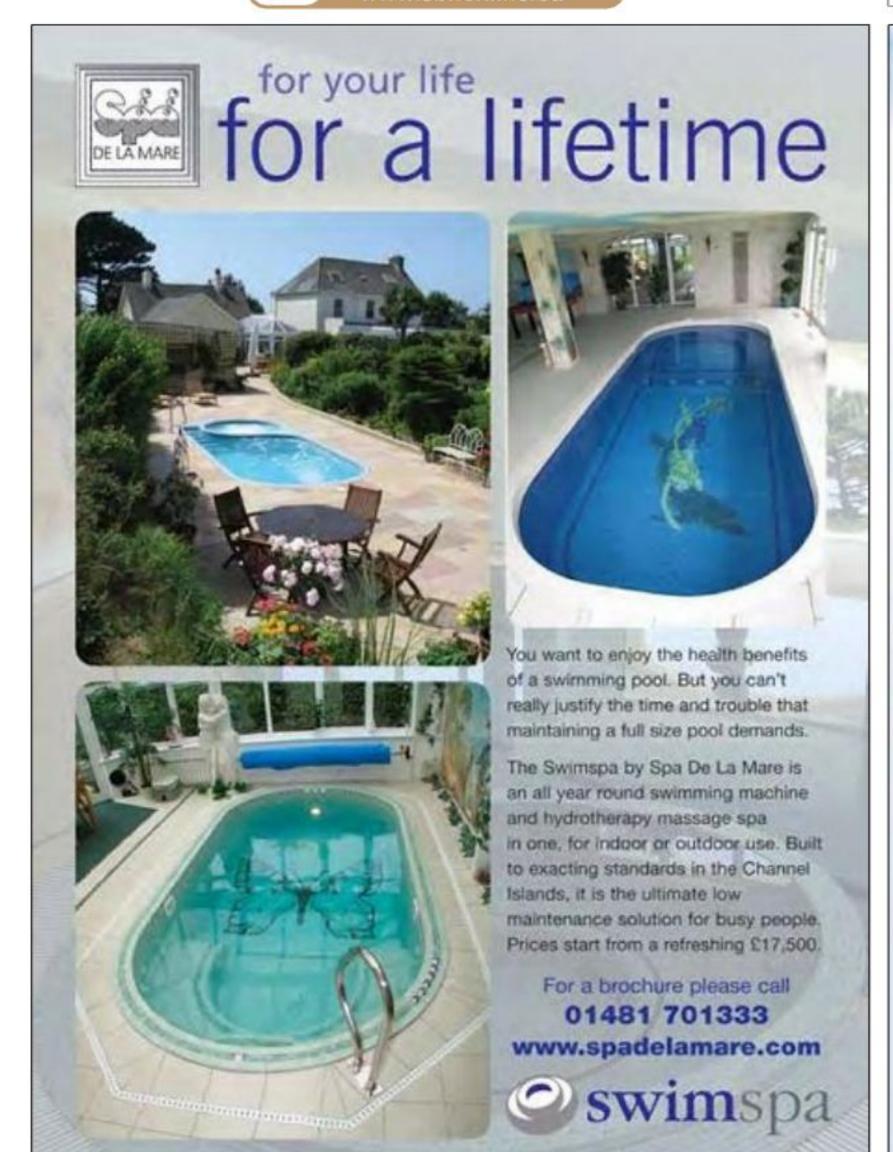
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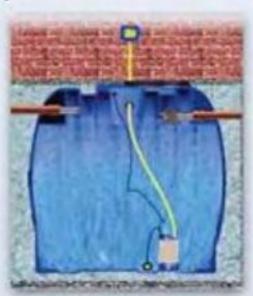
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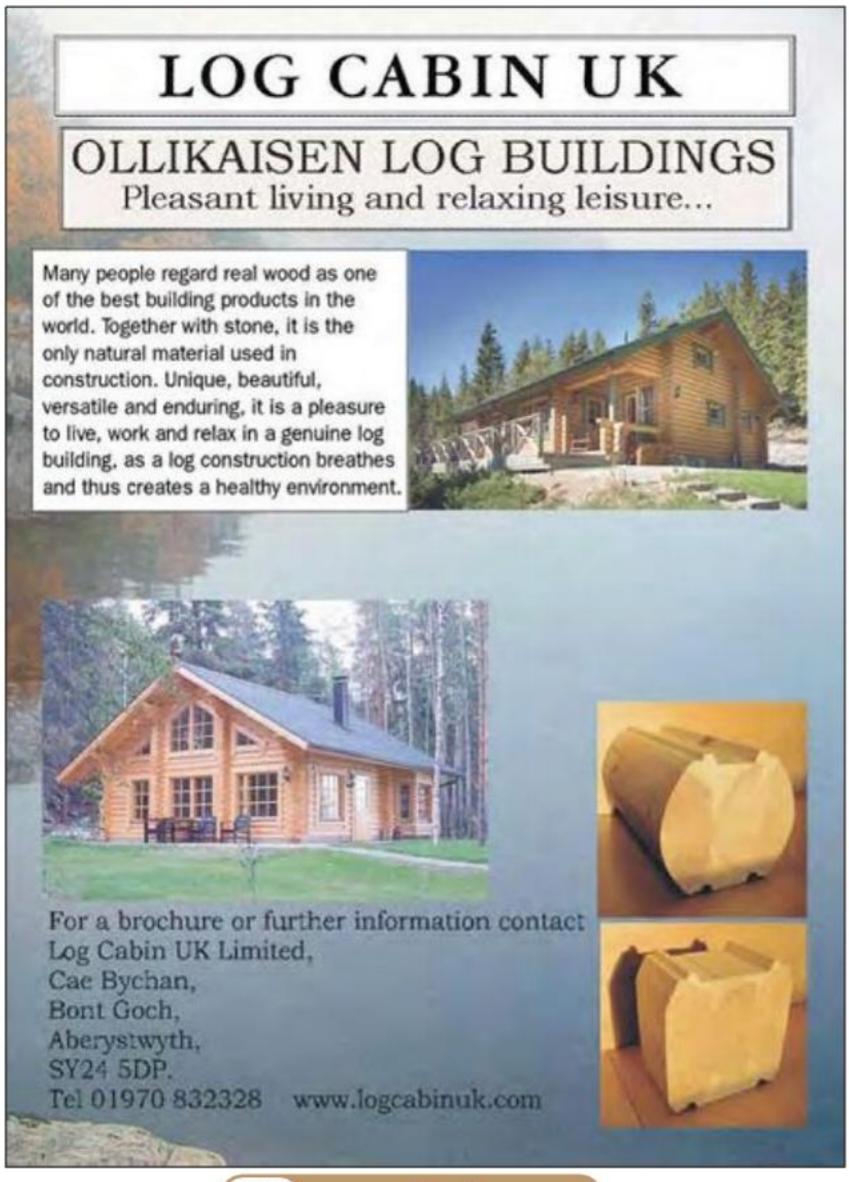
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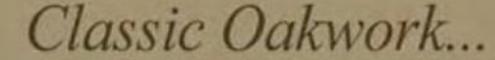
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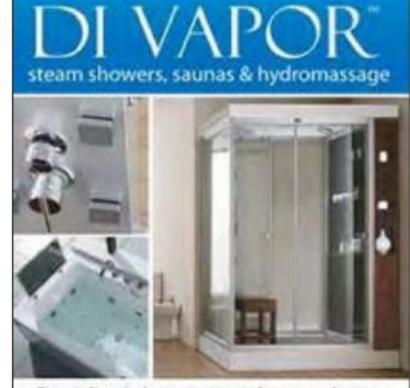
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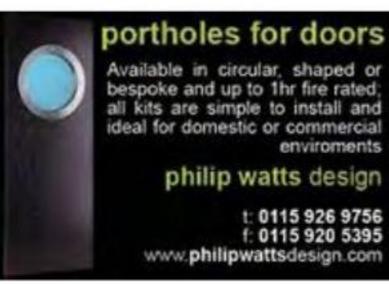
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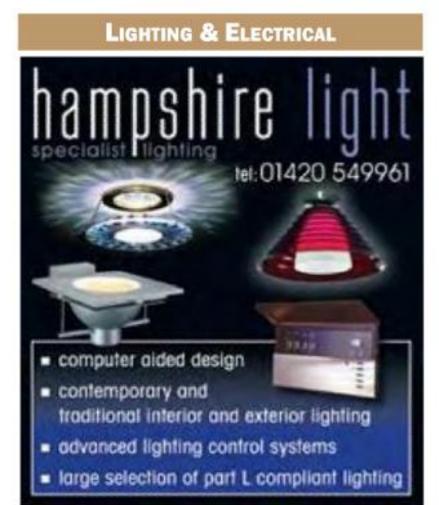
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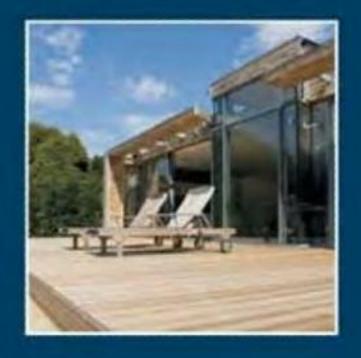
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