

Ecological Building Systems Ltd

Ecological Building Systems has been at the forefront of pro clima Intelligent airtight and windtight building products and natural insulations for nearly a decade, the company has developed a complete range of environmental building solutions for energy efficient, low carbon, healthy buildings.

Need technical guidance to achieve effective airtight building?

We can offer CPDs on Airtightness and Moisture Management using Intelligent Membranes and also GUTEX woodfibre boards – Technical guidance at design stage and on-site airtightness training can also be provided by our team.

Follow us on Twitter  @ecologicalbuild

GreenSpec – Specification clauses now available for architects. Prepared on pro clima Intelligent air and windtight products by Greenspec.

 – Niall Crosson Ecological's Technical Engineer has been lecturing on airtightness and moisture management at The Green Register's Build Tight Ventilate Right seminars throughout the year. The Green Register is one of the UK's leading organisations promoting sustainable building practices across all disciplines of the construction industry through unique training and events - see www.greenregister.org.uk

Bill Butcher of The Green Building Store who are pro clima stockists is writing a blog on the Denby Dale Passivhaus project – follow their progress on www.building.co.uk

Contact Us:

Telephone: 05600 758025
info@ecologicalbuildingsystems.com
www.ecologicalbuildingsystems.com

Sole UK and Irish distributors for:



Meet the team

We are here to help – we provide a full technical service which includes U value calculations and dew point assessments. We also provide dynamic calculations using WUFI software for calculating the coupled heat and moisture transfer in building components. We give general advice on the best way to effectively achieve airtight and windtight buildings as well as effectively insulating new and refurbishment projects.

From left to right: Penny Randell, UK Business Development Manager; Karsten Brueck, Technical Sales; Niall Crosson, Technical Engineer; Peter Smith, Technical Support; Tom



Barbour, Managing Director and Adrian Crosson, Building Services Engineer. Missing from the picture is Charlie Magill, Northern Ireland Representative.

Willmott Dixon group welcomed to pro clima's Headquarters



It was great to welcome staff from UK Construction Group, Willmott Dixon, to the pro clima offices in Schwetzingen.

pro clima Intelligent airtight solutions product training and a practical demonstration of installing for airtightness formed part of their intensive PassivHaus training day.

Stop Press - The Rijksmuseum in Amsterdam is going to be insulated with Calsitherm Climate Board – A 50mm board will be used over an area of 5,000 square metres. The Rijksmuseum is home to some of the World's most prestigious masterpieces – effective insulation that minimizes condensation risk with humidity regulation was a key criteria and Calsitherm is perfect!

2009 saw the launch of our new look website

www.ecologicalbuildingsystems.com

Take a look to find:

- Your nearest stockist.
- Keep informed with our blog.
- Use our Interactive house for airtightness detailing for both block and timber frame.
- Look out for training events and exhibition dates.
- Watch our case studies for up-to-date project information.
- Download specification clauses for airtightness and windtightness.
- See pro clima's new product range.
- See how Calsitherm is applied.
- Review the range of thermal solutions provided by GUTEX.
- Get latest updates on Twitter

New pro clima products

pro clima are continuously improving their range and have launched some innovative new products in 2010. See our website for further details.



Projects using our range of products

Canolfan Hyddgen - The First Certified Non-Domestic PassivHaus in the UK

JPW Construction of Machynlleth in Wales, have become pioneers in the UK construction market becoming the first company to gain PassivHaus certification for both a domestic and non-domestic build. The non-domestic project Canolfan Hyddgen is a Welsh Assembly/Powys County Council funded scheme, the building is used for meeting rooms, night classes, drop-in centre and as a council service point. The brief as well as achieving PassivHaus was also to achieve BREEAM excellent. Canolfan Hyddgen actually went on to achieve 84.4% Excellent (the highest to date in Wales) and won the Welsh BREEAM 2009 awards for offices. Using **pro clima's** Intelligent airtight vapour control membrane, Intello Plus and **pro clima's** airtight tapes and sealing solutions Canolfan Hyddgen achieved a **Q50 air permeability of 0.37m³/hr/m²**. JPW also achieved a fantastic result of **0.25m³/hr/m²** on a domestic built PassivHaus build Y Foel.



Zero Carbon House – Birmingham

We've been delighted to have been working with John Christophers of Associated Architects on a unique zero carbon house built in inner city Birmingham, to meet the stringent requirements of Level 6 of the UK Code for Sustainable Homes. Due to the complexity of the build and the refurbishment, the airtight detailing was a subject of much debate and

consideration by John and our Technical Engineer Niall Crosson. Once John had incorporated this into the plans, the construction team from Speller Metcalfe, headed up by on-site airtight champion Dell Browne stepped into action and we are delighted with their recent airtight result of 0.97m³/hr/m², as John reports that's more than 10 times better than regulations & 28 times better than the UK average. It really shows the advantages of stringent detailing for airtightness at the design stage, followed by on-site training which we conducted with the Speller Metcalfe team to fully accustom them with the **pro clima** range of products and critical airtight junctions to watch out for.



Photo Courtesy of John Christophers

New Headquarters – Woodland Trust

We've been working with Fielden Clegg and Bradley Studios in Bath on a highly innovative sustainable build – the new headquarters of the Woodland Trust in Grantham, Lincolnshire.

The building will house a staff base of 200 and what better way for the Woodland Trust to build than in wood!! They are utilizing a KLH cross laminated solid timber structure and GUTEX wood fibre boards will be externally insulating the building to depths of up to 282mm!!



Courtesy of FCB Studios

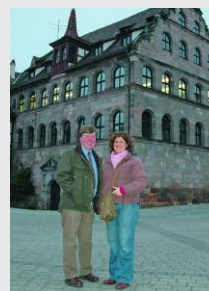
You'll find other projects on our website such as:

St Luke's CE Primary School – Wolverhampton BREEAM Excellent – designed by Architype.

Gentoo Homes First PassivHaus Social Scheme by Gentoo Homes in Houghton-le-Spring – designed by Dewjo'c.

If you've got a project that's used some of our products, we'd love to hear from you and we'll add them to our case studies page and put a link to your website.

Calsitherm Study Tour



Penny Randell from Ecological Building Systems and Jonathan Clark from Energy Solutions based in Thame, who specialize in the energy conservation of

listed historic buildings had a two-day whistle-stop tour of buildings insulated with Calsitherm Climate Board throughout East and West Germany, hosted by Calsitherm's Technical expert, Tobias Wild-Blatt. The buildings were diverse; and included Erfurt Cathedral dating from the 1300s; the Herrenschloßhaus in Nürnberg built in 1583; an interesting community centre the Südstadtforum, which was a PassivHaus build and finally a modern school.



Top Honours for Calsitherm Climate Board

Ecological Building Systems won **Best Interior Product** for Calsitherm calcium silicate board at Plan Expo held in Dublin in November. The award acknowledges the requirement to address the energy inefficiency of the vast majority of existing buildings and the unique characteristics and solutions Calsitherm Climate Board offers.



Did you know?

pro clima products have been independently tested and approved by the Sentinel-Haus Institute to meet their stringent standards for healthy buildings with good quality indoor air.



Please visit

www.ecologicalbuildingsystems.com

for full information on our product range and to find your nearest stockist