



Ecological Building Systems has been at the forefront of environmental and sustainable building product solutions for over a decade, gaining the sole agency in Ireland and the UK for pro clima, the eminent and well established German brand of Intelligent Airtight and Windtight building solutions. Ecological also supply a range of natural insulations and GUTEX wood fibreboards.

The company now distributes the pro clima range through a network of trained stockists, ensuring local supply and superior service. Please telephone or visit our website for your nearest local supplier.

You can also find full information on [www.ecologicalbuildingsystems.com](http://www.ecologicalbuildingsystems.com)

## Technical Sales Service and Back Up

Ecological Building Systems is pleased to provide technical advice on how to incorporate pro clima products into different forms of constructions for new build and refurbishment projects.

- We offer a technical sales help-line.
- CPDs and airtight installation training. 
- Copies of more in-depth relevant reports and samples.
- Help and advice on meeting the requirements of Building Regulations.
- Specification Clauses available from: 
- Hygro-thermal modelling using WUFI.
- Airtightness & Windtightness construction details available on request.
- Airtight installation videos available on our website.
- On-site support, where possible.
- U Value Calculations and Dew Point Assessments.
- Bespoke Training Centre and Showroom.
- Free in house drawing review and consultation service.

Products in this catalogue have been independently certified by the following organisations:



For Stockists contact  
 Ireland T. +353 (0) 46 9432104 F. +353 (0) 46 9432435  
 UK T. +44 (0) 1228 711511 F. +44 (0) 1228 712280  
 E. [info@ecologicalbuildingsystems.com](mailto:info@ecologicalbuildingsystems.com) [www.ecologicalbuildingsystems.com](http://www.ecologicalbuildingsystems.com)

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Intelligent Airtight  
and Windtight  
building systems

## Product Guide



pro clima have been providing Intelligent airtightness and windtightness solutions for over 2 decades with their products used in some of the most airtight constructions in Ireland, the UK and throughout Europe.

Our pro clima product guide shows some key details and products required to build airtight and windtight buildings, reducing the carbon footprint of our built environment and making energy savings, leading to comfortable, healthy, low energy buildings.

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


## The need for airtightness and windtightness in our buildings:

Research shows that up to half of all heat loss in buildings can be due to air leakage and uncontrolled ventilation. Insulation levels have increased substantially over the last few decades, but heated air is still escaping and can be pinpointed as a major source of energy loss.

We need to act now to reduce our energy consumption; around 50% of carbon emissions are from the built environment with approximately 50% of this energy used for space heating and cooling. The climates of Ireland and the UK do not suffer from extremes in low temperatures, but are exposed to extremes in wind pressure. While insulation is central to low energy construction, air and windtightness must also be central to an energy efficient design strategy to reduce unnecessary heat loss. The key is to 'Build Tight and Ventilate Right'.

More central to all this is living healthily and comfortably. Heat that escapes from buildings carries a significant amount of moisture. This can lead to damage to buildings and building materials, and may have a severe effect on the air quality of the living space. This is why pro clima develop a range of Intelligent diffusion open airtightness solutions to reduce the risk of condensation within structural elements and encourage vapour diffusion.

### Why pro clima?

- Pioneers of Intelligent airtightness solutions for over 20 years.
  - Independent consumer testing\* confirms pro clima is the 'Best Airtightness Layer'.
  - Every solution to achieving air & windtight constructions in block & timberframe buildings.
  - Highest performing Intelligent Airtight Vapour Check – INTELLO®PLUS. Now BBA approved.
  - Superior protection against condensation, mould & structural damage.
  - SOLITEX PLUS Closed cell windtight diffusion open 4 ply reinforced roofing membrane – perfect for the UK & Irish climates.
  - High performance solid acrylic glues, tapes & grommets designed to last the lifetime of the building. IAB approved Intelligent airtight & windtight system.
- \* Stiftung Warentest
- Sentinel Haus Approved. 

# pro clima Intelligent Vapour Control/Airtight Membranes and Windtight Diffusion Open Roofing and Wall Membranes & Accessories

## INTERNAL AIRTIGHT PRODUCTS



### Other Internal Airtight Products

-  **DB+**  
Cellulose intelligent vapour check and airtight membrane
-  **DA**  
Weather resistant airtight vapour check
-  **DA-S**  
Airtight vapour check sealing strip
-  **UNI TAPE**  
Universal paper based adhesive tape for permanent, airtight and secure bonding **100 YEARS**
-  **EXTOSEAL FINOC**  
Butyl watertight capillary break tape
-  **EXTOSEAL MAGOV**  
Butyl tape for airtight connections around service penetrations
-  **ORCON LINE**  
Multi purpose flexible joint adhesive on a roll
-  **KAFLEX**  
Airtightness grommet for cables and small pipes
-  **INSTAA BOX**  
Airtight installation of service boxes
-  **TESCON RP PRIMER**  
Priming coat suitable for internal and external use. Used to stabilise surfaces

## EXTERNAL WINDTIGHT ROOF PRODUCTS



### Other External Windtight Roof Products

-  **SOLITEX UM CONNECT**  
4 layer roofing underlay with 3D separation layer for metal deck roofs
-  **EXTOSEAL ENCORS**  
Butyl flashings for window sills and door thresholds
-  **EXTOSEAL MAGOV**  
Butyl tape for airtight connections around service penetrations
-  **KAFLEX**  
Airtightness grommet for cables and small pipes