Guardian™
Warm Roof

Conservatory Warm Roof Conversion System

registered LABC
Registration No. RD320

LABSS
Local Authority Building Standards Scotland

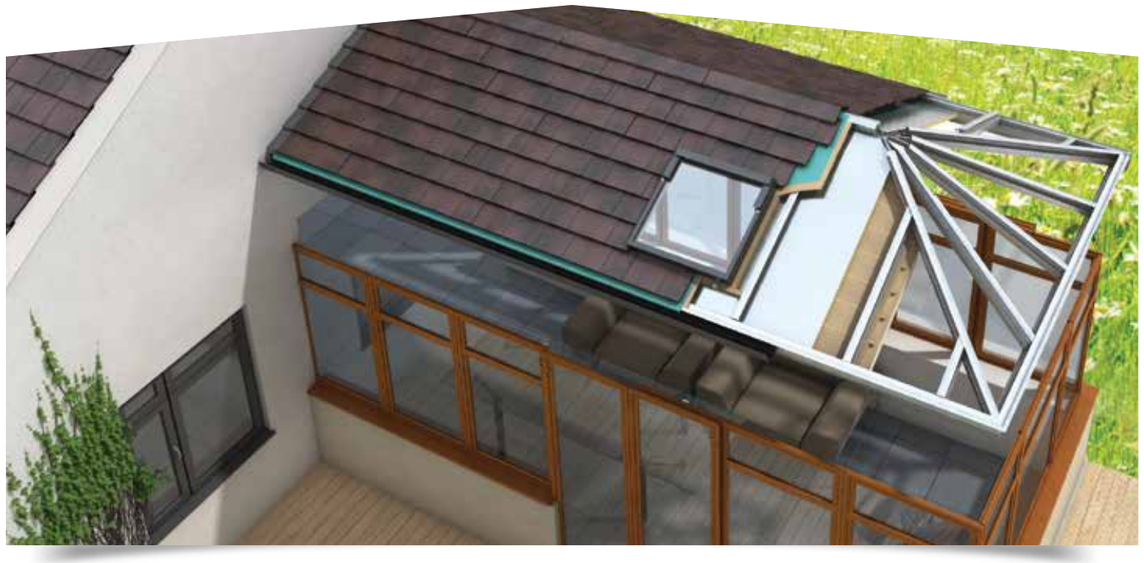
Is your existing conservatory roof:

Too hot in summer or too cold in winter? I Waste of valuable living space? I Unable to relax to watch TV?

Transform your conservatory into a comfortable, all year round living space...

...with the Guardian™ Warm Roof Conversion System:

High performance insulated warm roof conversion system I Lightweight aluminium frame
Reduced energy costs I Reduces rain noise and sun glare



The Guardian™ Warm Roof System is the biggest revelation to hit the home improvement market in the last ten years.

You can now change your old conservatory roof for a new Guardian™ roof and effectively turn your old conservatory into a new extension that can be used all year round. The complete changeover takes just a few days with very minimal disruption to your household.

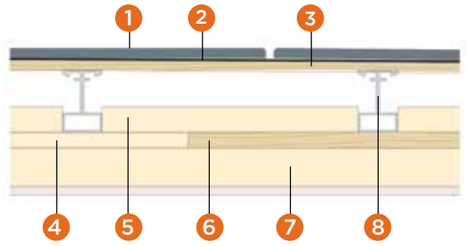
The roof system is designed to replace the existing glass or polycarbonate roof of a conservatory while retaining the original windows, doors, frames and walls. At the same time providing substantial energy cost savings.

Fully tested and approved to all thermal and structural standards, the Guardian™ roof is a high performance insulated roof system comprising of a pre-engineered lightweight frame, two layers of rigid insulation board, internal insulated plasterboard, exterior grade plywood, vapour membrane and a choice of external tile finishes.

With planning consent, internal dividing doors or walls can be removed to provide a permanent extension to your living room, kitchen, etc.

The affordable Guardian™ Warm Roof Conversion System

- LABC Approval (Building control England & Wales)
- LABSS Approval (Building control Scotland)
- Reduced fuel bills for the life of the roof
- Comfortable ambient temperature all year round
- A wide range of roof colours & finishes available
- Fast installation utilising existing walls, windows and doors via our **nationwide installer network**
- Achieves a maximum U-value of 0.18
- Thermal, structural and condensation risk tested
- Fully guaranteed

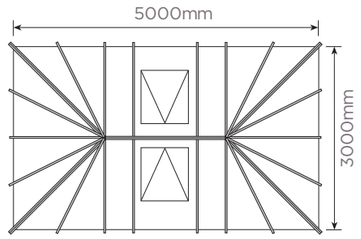


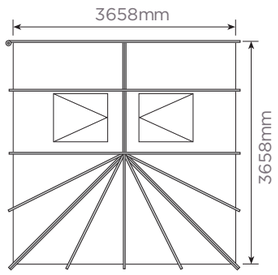
1	Choice of tile finishes
2	Membrane
3	Exterior grade plywood
4	25mm high performance insulation (timber batten cut back for clarity)
5	40mm high performance insulation
6	Timber battens
7	72mm high performance insulated plasterboards
8	Rafter

Roof design options

Guardian™ roof provide standard warm roof solutions for existing conservatory roof design. Bespoke solutions also available.

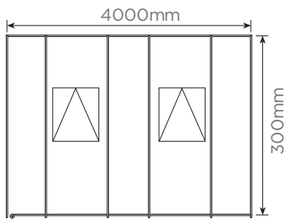
Edwardian

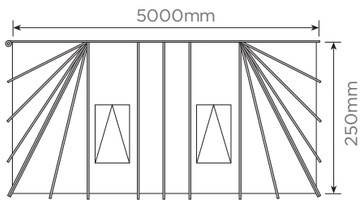




This classic conservatory shape helps to maximise the living space and is the traditional extension style for image and convenience. The Guardian insulated roof will simply enhance this new living space, which you can now use daily, all year round.

Lean-to





The Lean-to is ideal to maximise space at the rear of the house. The roof ends can have either one or two hips (slopes) and it is an ideal solution for a kitchen extension. The Guardian Warm Roof comes with an array of complementary tiles.

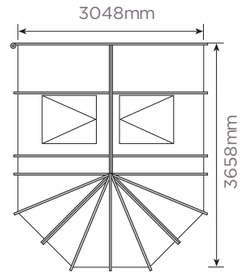
Victorian

Gable ended

Combination

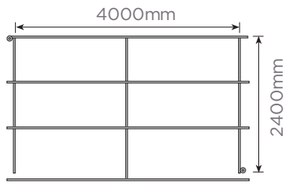
Victorian

The Victorian style has heavy links to heritage, is extremely versatile and usually has a three or five facet finish. The Guardian solid roof can be tailored to your own specification with a wide range of tile finishes and colours.



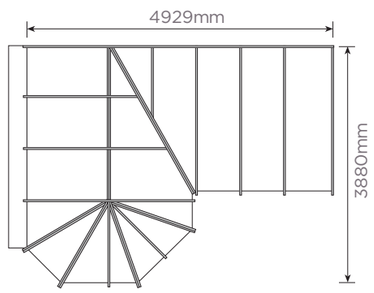
Gable ended

The main feature of the Gable ended conservatory is the continuous height it brings to the room owing to the long ridge down the centre. The gable ended windows also ensure you are able to get maximum natural light into the conservatory. The Guardian tiled roof is suitable for replacement or new build projects.



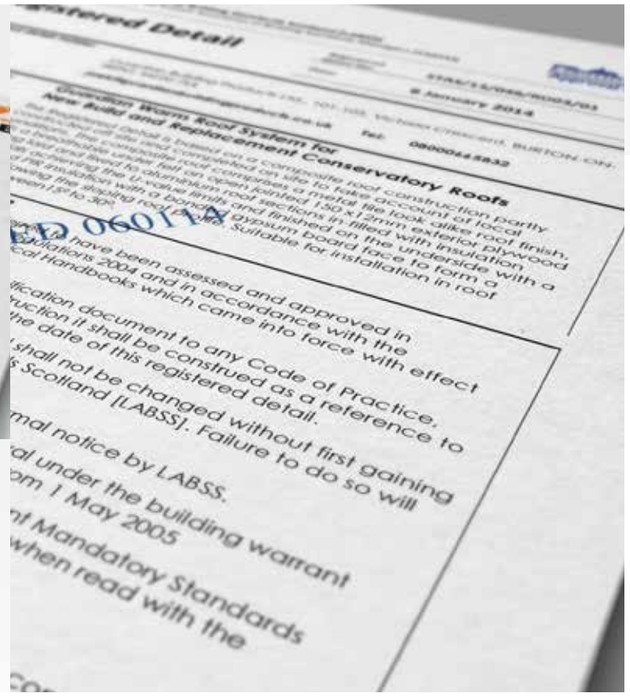
Combination

The combination or P-shape Conservatory can allow you to have two different style living spaces under one Guardian solid roof. These spaces are extremely adaptable to create a unique, multipurpose room to your exact specification.



What you need to know

The Guardian™ Warm Roof Conversion System has been designed to provide a high performance thermal and structural solution with zero condensation risk over the life of the roof.



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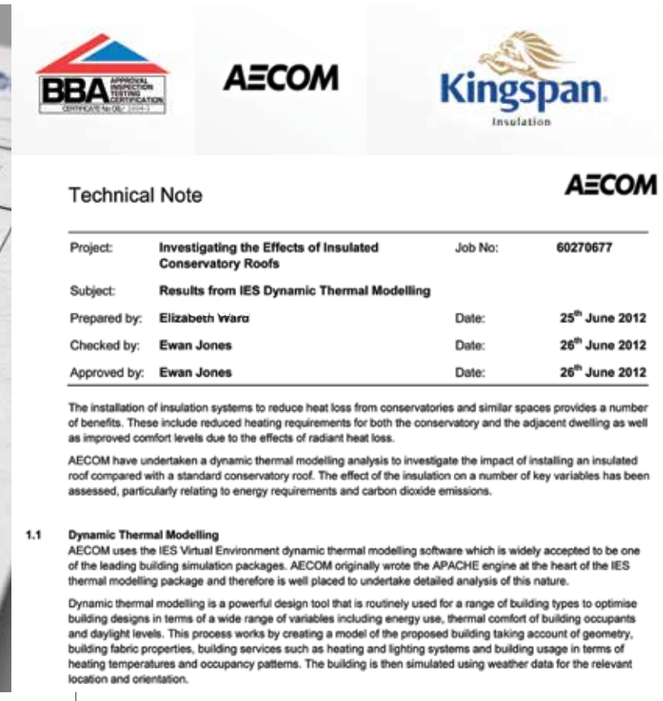
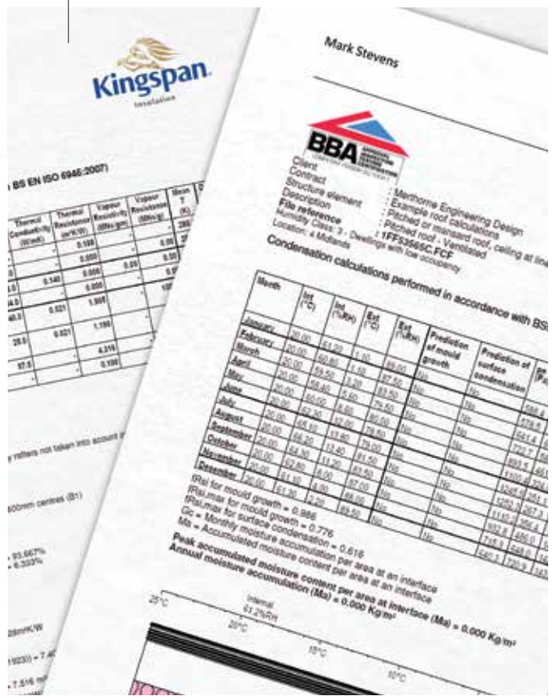




Kingspan thermal analysis & Kingspan Insulation condensation risk analysis

Each of these elements has been fully tested and approved by independent industry experts to evaluate thermal performance, structural performance, condensation risk and quantify energy savings.

The Guardian™ roof best practice approach has enabled the Local Authority Building Control (LABC) to certify the Guardian™ roof system as a LABC Registered System.

In some cases the Guardian™ roof conversion would be exempt if it was at ground level, does not exceed 30m2 floor area, be thermally separated from the building it is attached to, have an independent heating system from the main building and have glazing that meets Part N in the critical zones.

However, Building Control approval should always be sought. But with Guardian™ systems being LABC certified, this process should proceed without complication.

The Guardian™ Warm Roof Conversion System is fully compliant for use in a conventional situation such as an extension and has been fully approved by LABC for use as a full replacement conservatory roof.

With Building Control approval, Guardian™ high performance insulated roof conversions may allow the removal of the wall between the house and the conservatory, offering the flexibility to extend and enlarge an existing kitchen, living room or bedroom.

Please consult your installer for more details.

Aecom energy saving study

AECOM modelled a typical house with a standard "Victorian 12' x 12'" conservatory.

The conservatory was northward projecting with an electric heating system. A future energy price forecasts was accounted for under the "Green Stimulus" price forecast that yielded a saving of £5,447 after 25 years.

The key conclusion drawn from this evaluation is that the greatest benefits from installing the "Guardian™" roof are made when it is retrofitted, as a result of the greater difference between the U-values of the original roof and the new roof type.

Any of the above reports are available on request from Guardian™ Warm Roof.

Modelling Methodology and Key Modelling Inputs

The Guardian™ Service Package

Building work of any kind can be a daunting process. The Guardian™ Service Package is the hassle-free way to achieve the roof conversion you want. We will manage your project and keep you informed at every stage, providing a seamless process from your original enquiry, through Planning Permission to final installation and completion.

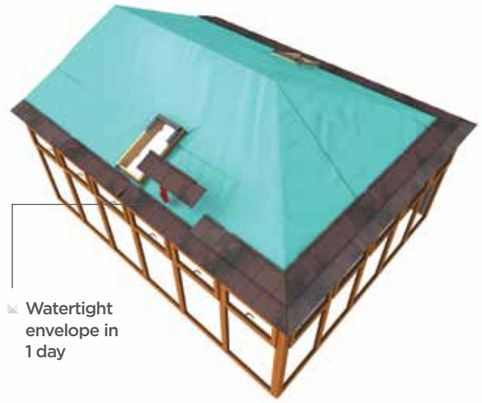
5 Weeks

From enquiry onto home visit through to design and manufacture. The Guardian™ Conservatory Roof is a unique an innovative product that will enhance your home.

Designed and built in our 80,000 sq ft production plant the Guardian™ Conservatory Roof will be delivered to your home ready to be constructed by one of our professional installation teams.

Transform your living environment in twelve simple steps

Remove existing glass roof. Replace with Guardian™ Warm Roof ring beam

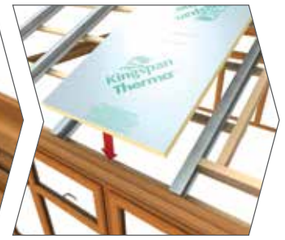


Watertight envelope in 1 day

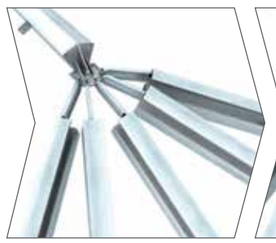
Fix box gutter to existing wall

Fix ring beam to existing windows

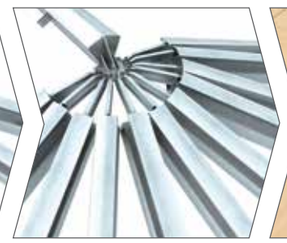
Fix rafters to ringbeam



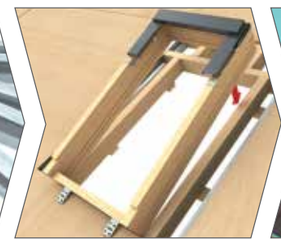
Install external insulation



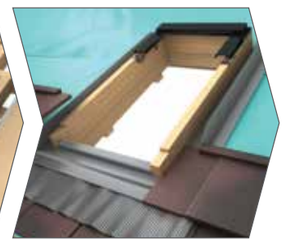
Edwardian conservatory



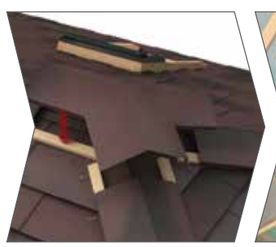
Victorian conservatory option



Install roof window frame

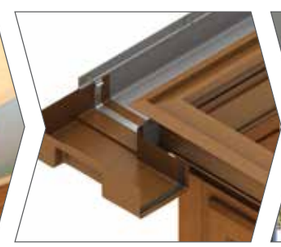


Install roof window



Fix rafter cap and ridge

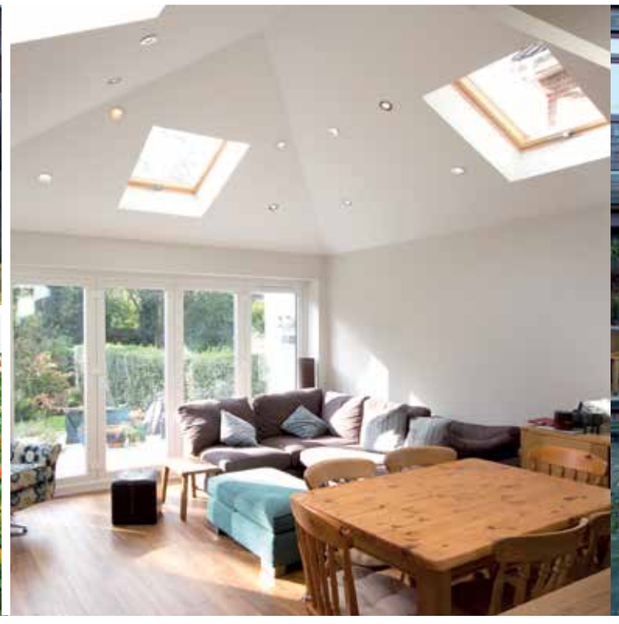
Install insulation between batten



Fit gutter

Plaster ceiling

Gallery



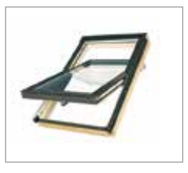
Your Guardian™ Roof will not only look beautiful,
it will also **reduce** your heating bills.

Gallery

If you're looking for a specific, unusual or particular type of roof and can't find it on our gallery please let us know and we'll try and source it for you.

External Finishes

There is a brilliant range of external finishes available for your new space. From a selection of attractive roof tiles to optional FAKRO roof windows maximising the amount of natural light in your room.



V60P

FT Centre Pivot Windows with *VP04 Automatic air vent

TAPCO SLATE

Tapco Slate gives you an authentic and attractive look from a product that carries a 50 year warranty.

A massive choice of colours available!

Traditional UK slate colours available in stock:

Stone Black | Pewter Grey | Plum | Brick Red

All other colours on extended delivery.

Tapco Slate is a premium product with premium performance, offering beauty that is built to last, the highest performance ratings, and a transferable 50-year limited warranty.

LIMITED LIFETIME WARRANTY

Alternative Slate Colours

Dover Grey | Slate Grey

Charcoal Grey | Emerald Green

Chestnut Brown | Moss Green

Forest Green

Blends

Grey/Black

Green/Grey

Plum/Green

metrotile LIGHTWEIGHT ROOFING

Metrotile matches closely to your existing house roof and carries a 40 year warranty.

- Lightweight high grade steel with aluzinc® coating for incredible strength and resistance
- Unique "hidden fix" feature leaves no nails exposed to corrosion
- Designed to be suitable for pitches as low as 15°

Standard colours available in stock:

Ebony | Antique Red | Burnt Umber | Charcoal

FAKRO®

- Manufactured in pine, vacuum impregnated and coated with acrylic lacquer
- Handle positioned on the lower part of the sash for easy operation, and secured open in two positions
- Suitable for roofs with pitches between 15° and 90° (complete with flashing)
- Wide range of accessories

FT centre pivot windows are the most popular type of FAKRO roof window. The well-designed centre pivot allows the sash to be opened in a range of positions, thus increasing the amount of fresh air which can be drawn into the room. The sash can also be rotated through 180° and locked, allowing easy and safe cleaning of the outer pane to be carried out. Such pivot windows are operated using a two-part hinge.

* As the air inlet is positioned at the point of the frame, FAKRO windows have a 6% greater surface area when compared with similar sized windows made by other manufacturers. As a result they maximise the amount of natural light in a room. Non-standard specifications, such as windows with automatic air-vents, are available to order: FTP-V/H, FTP-V/P. Also available in conservation style.

Guardian™
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