

# Conservatory Solid Roof System

Create a comfortable living space with our roof conversion solutions for existing and new build conservatories.

# Next Generation Home Extension

Transform your home with the most advanced, energy-efficient building system available, to create a comfortable and affordable living space.



Guardian™



**Polar Bear  
Windows**  
Doors & Conservatories



Featuring Global Brand Leaders:  
Kingspan TEK Building System and  
Velux Roof Window Systems.



Kingspan



VELUX®



# Market leading Guardian Warm Roof

A revolutionary step forward in home improvement – a high performance, lightweight roof system that has been designed to replace your existing glass or polycarbonate roof or be installed as an alternative on your new conservatory.

The Guardian Warm Roof System dramatically transforms your conservatory into an ambient, much needed space that can be used daily, all year round.



Less sun glare and furniture fade



Cooler in summer



Less rain noise and 100% weather-tight



Warmer in winter

## The Future of Home Extensions

Guardian provide a spacious, open-plan extension to your home using cutting edge construction techniques. Your new extension will be comfortable and warm with outstanding energy-efficiency with a U-value of 0.10 W/m<sup>2</sup>K, it is the most energy saving home extension available.



The Guardian extension, built using the Kingspan TEK® Building System and Guardian Warm Roof technology, is factory-built for consistently high quality and offers huge financial and performance advantages over conventional extensions. All components are pre-assembled factory engineered with high performance insulation. These superior build methods provide up to 60% faster on-site construction resulting in up to 30% cost savings with superior quality over conventional on-site construction.



**Mitcam Apartment Homes, London**  
Built using the innovative Kingspan TEK Building System and designed by Groves Natcheva Architects.



**Houses, Hanham Hall, Nr Bristol**  
Kingspan was involved from the initial design phase of the project and worked alongside HTA Design LLP.



## Roof System

Ridge cappings to match roof tiles or slates

Choice of roof tiles or slates in a range of colours

Standard rainwater systems

Velux Roof Lights

Breathable waterproof membrane

Exterior grade plywood

Structural pre-engineered frame

Ventilated roof eliminates condensation and mould growth

3 layers high performance rigid insulation board (125mm)

U-value 0.18 W/m.K (England & Wales) and 0.15 W/m.K (Scotland)

## Wall System

Choice of external finish

Kingspan TEK® Building System

Internal flooring

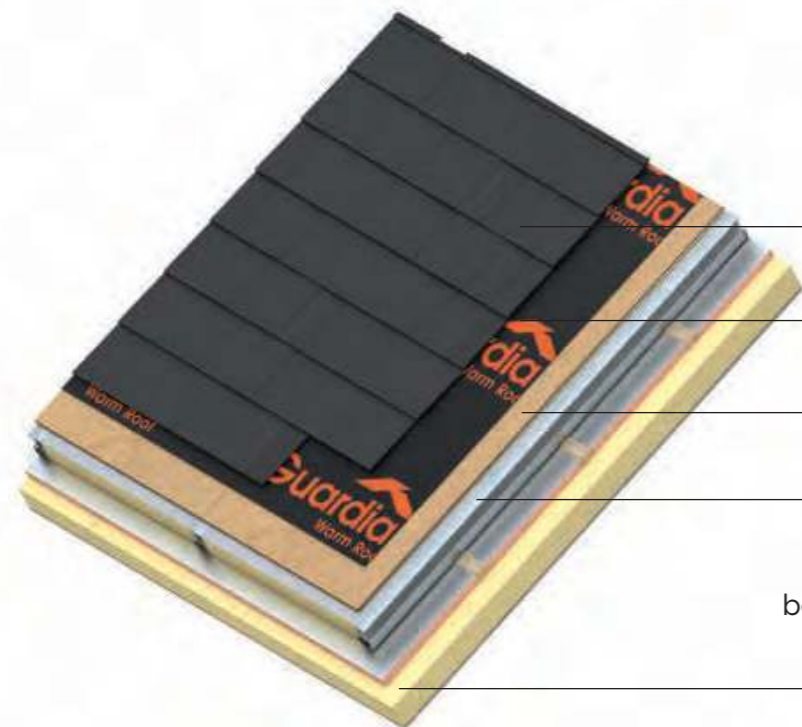
External flooring







## Guardian Warm Roof System



Choice of roof tiles or slates in a range of colours

Breathable waterproof membrane

Exterior grade plywood

Structural pre-engineered frame

3 layers high performance rigid insulation board (125mm) U-value 0.18 W/m.K (England & Wales) and 0.15 W/m.K (Scotland)

## Kingspan TEK® Building System



Plasterboard

High performance Kingspan TEK® Building System

Breathable waterproof membrane

Timber battens

U-value 0.16 W/m.K

External finish



With Building Control approval, internal dividing doors or walls can be removed to provide an open-plan living space.

## System Benefits



### Rapid Installation

Installed by one of our Team Guardian Registered Installers, the whole conservatory roof installation only takes a few days and is completed with minimum disruption to your home.



### Engineered for Quality

Each Guardian roof is engineered precisely to your individual requirements and pre-assembled under controlled factory conditions to ensure the highest quality before delivery to site.



### Energy Efficient

It has been independently proven that a Guardian Warm Roof can save you money on your energy bills, using high performance insulation that achieves a superior U-value of only 0.18 W/m.K (England & Wales) and 0.15 W/m.K (Scotland).



### Reduces Noise & Sun Glare

Your new room will be quiet and comfortable all year round as any rain / weather noise will be eliminated.

The Guardian roof also significantly reduces sun glare, which in turn prevents sun bleaching to fixtures and fittings, removing the need to fit blinds to the windows of your conservatory.



### Temperature Control

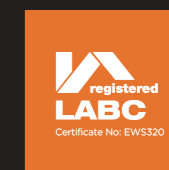
A Guardian Warm Roof regulates the temperature of your conservatory to ensure it's a pleasant temperature whatever the season.

The high-performance insulation guarantees lifetime thermal performance, ensuring your room is economical to heat.



### Complete Peace of Mind

The Guardian roof is a superb system and is LABC and LABSS approved.





# Roof Designs



## Edwardian

The Classic conservatory shape. Together with attractive roof windows the Edwardian Guardian Roof is the traditional option for styling and convenience, maximising the room space below.



## Lean-to

The Guardian Lean-To is ideal to maximise space at the rear of the house. The ends can either have one or two hips (slopes). Ideal for kitchen extensions, the roof can go as low as 15° with roof windows.



## Victorian

The Victorian roof is also ideal if you may not have much available space in your garden. The internal plaster finish on the roof has an attractive appearance with its facet front finish.



## Combination

A P-shape simply combines the benefits of two different styles to maximise your living environment. A T-shape combination is available, as well as bespoke solutions to make your conservatory as individual as you are.



## Gable Ended

The gable ended main feature is the continuous height it brings to the room due to its long central ridge.

The gable end allows you to get the most from your roof windows providing a light and airy space.

*Suitable to replace your existing conservatory roof and an alternative on new conservatory installations.*



# Guardian Tiles

**Lightweight tiles available in a range of colours to compliment virtually any home.**

The Metrotile is made from lightweight high grade steel with Aluzinc® coating for incredible strength and resistance and features a unique 'hidden fix' feature that leaves no nails exposed to corrosion. Plus the Metrotile Shingle comes complete with a 40 Year Guarantee and available in two ranges.



### Metrotile Shingle

A versatile profile with the appearance of a small riven slate.

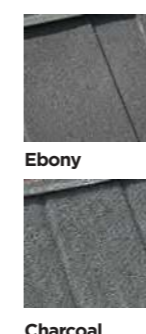


### Metrotile Esprit Shingle

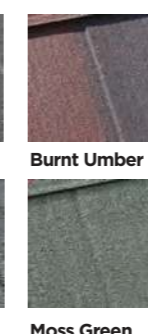
Sleek and geometrically precise: perfect for the modern building or conservatory roof.



Antique Red



Ebony



Burnt Umber



Charcoal



Moss Green

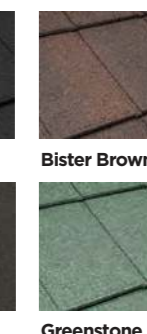


Scarlet



Coal Black

Charcoal



Bister Brown

Greenstone





**Extremely durable, impact and heat resistant, offering the highest level of UV protection**

Today's house builders and owners demand lower cost, faster and easier construction without compromising on quality while maintaining a traditional appearance.

To meet these demands, we are constantly developing new, high tech solutions for today's construction industry. Engineered using the most advanced technology in material development and manufactured from resin bonded crushed limestone.

**Guardian Slate**

**A lightweight natural slate alternative with no risk of cracking and breaking.**

Guardian Slate is available in a choice of five natural colours, providing you the opportunity to add texture and style to your home. The colours have been tested to high UV exposure and exhibit virtually no fade and with no trace of cracking or splitting.



- Spacers for perfect alignment
- Pre-marked fixing guides for quick & easy installation
- Up to 60% lighter than traditional slate
- Superior life expectancy will not crack, split or break
- Ideal for new or replacement roofing projects
- 100% recyclable at end of use



- 'A' grade fire rated on a standard membrane
- Consistent high quality and dimensional accuracy

*Guardian Slate is an innovative roofing system featuring the aesthetic appeal of natural slate without the risk of cracking and breaking.*





## Exterior Wall Finishes

Beautiful finishes to match your home.

Other finishes are available on request. Contact us for further details.

Brick Slip



Brick



Stone



Render



Timber



## Velux Roof Windows



Increase light & ventilation and create a bright and fresh interior

One of the joys of owning a conservatory is the light, airy atmosphere that it creates. There's nothing nicer than sitting back and enjoying the view.

A typical conservatory is already very light because of the excess of windows but if you really do want the best of both worlds then we recommend a roof window (or possibly two). These ultra modern products are very practical and give you an alternative option for ventilation as well as the added amount of light that they bring to the room.



*Bringing light to life*

Manual



Electric



Solar Powered





# Transformed in just a few days

Typical build programme



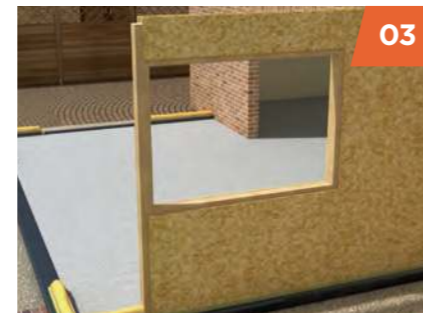
## Day 1-2 Installation of the high-performance Kingspan TEK® Building System.



01 Base is laid to the correct specifications for your Guardian Room.



02 Wall and sole plates installed ready to receive the Kingspan TEK® panels.



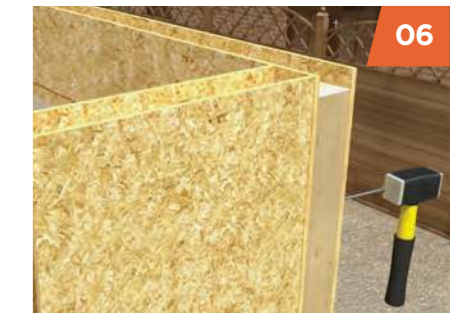
03 Subsequent panels are installed with specified window and door openings.



04 Expanding urethane sealant is used between all panel joints for superior airtightness.



05 Wall panels are securely fixed together with a nail gun.



06 Corner joints are nailed together to ensure structural strength.

## Day 3-4 Installation of the market-leading Guardian Warm Roof.



01 Structural ringbeam is sealed and secured to the top of the Kingspan TEK® wall structure.



02 The aluminium roof structure is secured to the ring-beam and exterior grade ply-board is fixed.



03 Breathable waterproof membrane is laid over the plywood and secured in place.



04 Roof is batted and chosen tile is added ensuring weather-tightness. The gutter and external trim are secured.



05 3 layers of high performance insulation (between and over rafters, and insulated plasterboard), is installed.



06 Your Guardian Room is now ready for internal finishes.

## Day 5 Internal and external finishes applied.



01 Breathable waterproof membrane is secured to the Kingspan TEK® walls.



02 Timber battens are then secured to the outer.



03 Your chosen external finish is applied.



04 The interior has services added and is batted ready for internal finish.



05 Interior has the chosen finish applied. Your Guardian Room is now ready to enjoy.



At last...  
the Guardian Roof  
and Home Extension  
that ticks all the boxes



To watch the video's visit our website as seen on the back page.





Jersey's first EnerPHit certified home, thanks to the application of the Kingspan TEK Building System.



Seaton Jurassic visitor centre in Devonshire



University of Bedfordshire

# Kingspan TEK Panel System

## Delivering fast innovative results for domestic and commercial applications

Structural Insulated Panels – commonly referred to as SIPs – are a build system incorporating insulation. Insulation is sandwiched between two boards (usually OSB), for a highly insulated build that can be prefabricated off site, and quickly erected on site.

The Kingspan TEK Building System of Structural Insulated Panels (SIPs) have been used as part of many substantial and impressive, innovative domestic and commercial projects throughout the UK...



Passivhaus House - South Manchester



University of Lancaster



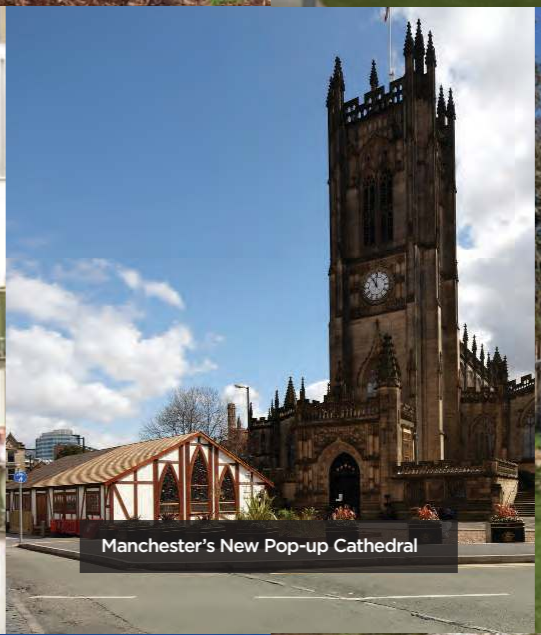
Cultural Centre - South Shields



Ravenor Primary School - Leeds



Gspan Lighthouse - Watford



Manchester's New Pop-up Cathedral



Dutch Barn - Hampshire



Lowery Centre - Waltham Forest College



"The Gateway to Lewes" - East Sussex. Featured on Grand Designs



Boyle and Petyt Primary School - Yorkshire Dales

Structural Insulated Panels (SIPs)	
Summary	Comprise a thick structural insulated panel (SIP). Panels are connected with a unique jointing system.
Thermal conductivity	Insulation core: 0.023 W/m.K OSB/3 facings: 0.13 W/m.K
Facings	15mm Oriented Strand Board type 3 (OSB/3)
Core	High performance CFC/HCFC free rigid thermoset urethane insulant of typical density 33 kg/m <sup>3</sup> , manufactured with a blowing agent that has zero Ozone Depletion Potential (ODP)
Board size	Manufactured to individual projects - however the panels have standard dimensions of width: 200 mm (min.), 1220 mm (max.) and length: 7,500 mm (max.)







## Get It Right First Time

## Make sure it's Team Guardian

### Make sure it's a genuine Guardian

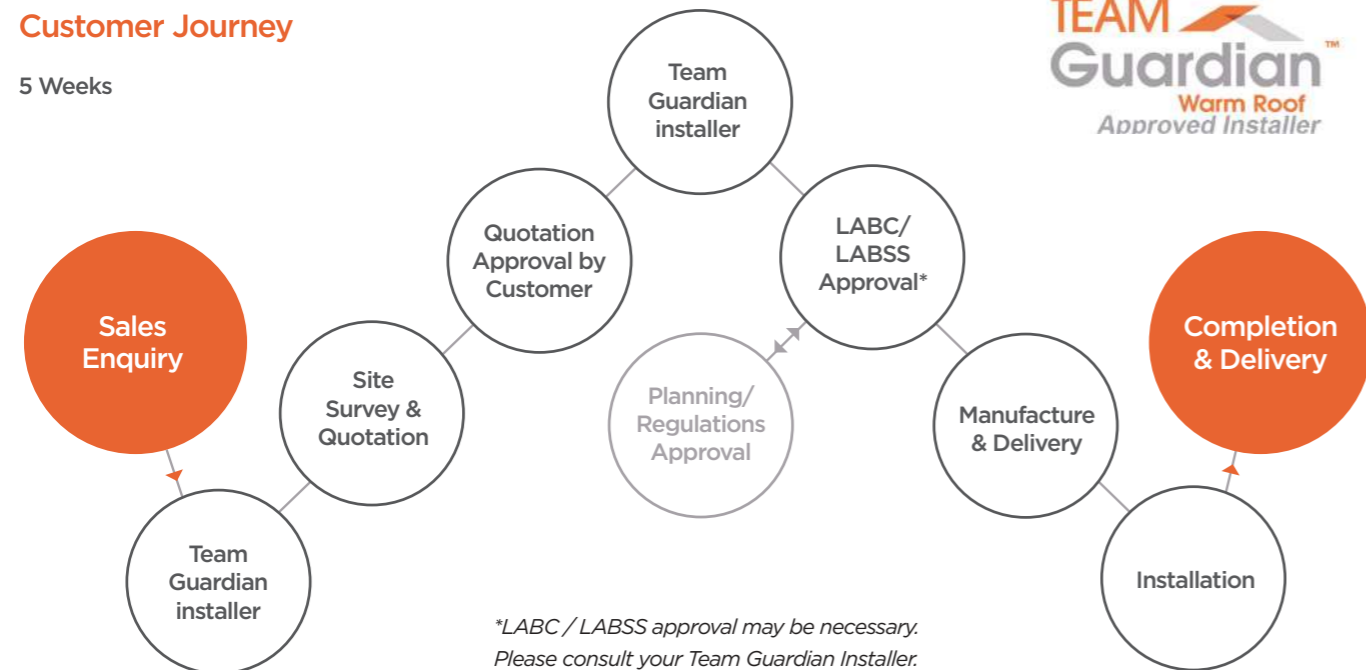
Building work of any kind can be a daunting process.

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 certification.



#### Customer Journey

5 Weeks



### We are your fully approved nationwide Team Guardian Manufacturers and Installers

The Guardian Warm Roof System and Home Extension is manufactured in the UK and It's crucially important that our new systems are installed professionally. Our installers have been trained, qualified and approved to fit the Guardian Roof System. The installation is the most important process in the whole replacement sequence, so it's really important that your new roof is fitted perfectly.

Simply ask to see our Team Guardian members ID and you will be assured that your installer is going to do a great job. The system has been designed to give you additional assurances, not just for the roof itself but also for the quality of the installation.







Guardian  
Warm Roof



Guardian  
Home Extension



“ We were looking at a typical extension but then we came across the Guardian Home Extension. We couldn't be happier and it didn't break the bank! ”

“ Since we had the Guardian roof installed, we now use our conservatory all year round. It's just perfect! ”





# Conservatory Solid Roof System

Transform your conservatory into a beautiful new multi-purpose room you can use all year round by simply replacing the roof.

# Next Generation Home Extension

An innovative home extension solution with a bespoke design to your taste and installed in a short space of time.



Guardian™

