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SYSTEM EXCELLENCE  
THROUGH INNOVATION



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# Leka Tiled Conservatory Roof Systems

Considering a new conservatory and want to be able to use it all year? Or perhaps you own a conservatory and find it too hot in the summer or freezing in the winter?

Developed by industry professionals, the Leka Systems product range can offer immediate assistance and provide the solution you have been looking for.

When you specify a Leka tiled roof, you will benefit from in depth research, enormous investments and precision engineering, all helping to create the best replacement roof for your conservatory.....



All Year Round Living Space





## Why Leka

We designed the Leka Roof to outperform as well as outlast common glass and polycarbonate roofing systems. It's so good it has been approved by MFA, the approved building inspector licenced by the Government, and our patent-pending technologies lead the way for innovation in the industry.

If you have a glazed or polycarbonate roofing system on your conservatory, you may find the space too hot in the summer and too cold in the winter. The reason for this is poor roof insulation. It is also common for homeowners to find glare in the winter and summer unbearable. The Leka System solves both these issues with proper insulation set into a solid, tiled conservatory roof. This creates a more usable space year-round.

The Leka System is far superior to competitor systems. It delivers the performance, efficiency and longevity of your normal roof, and crucially, looks very similar. You can have a concrete effect or slate effect tile in a wide range of colours.



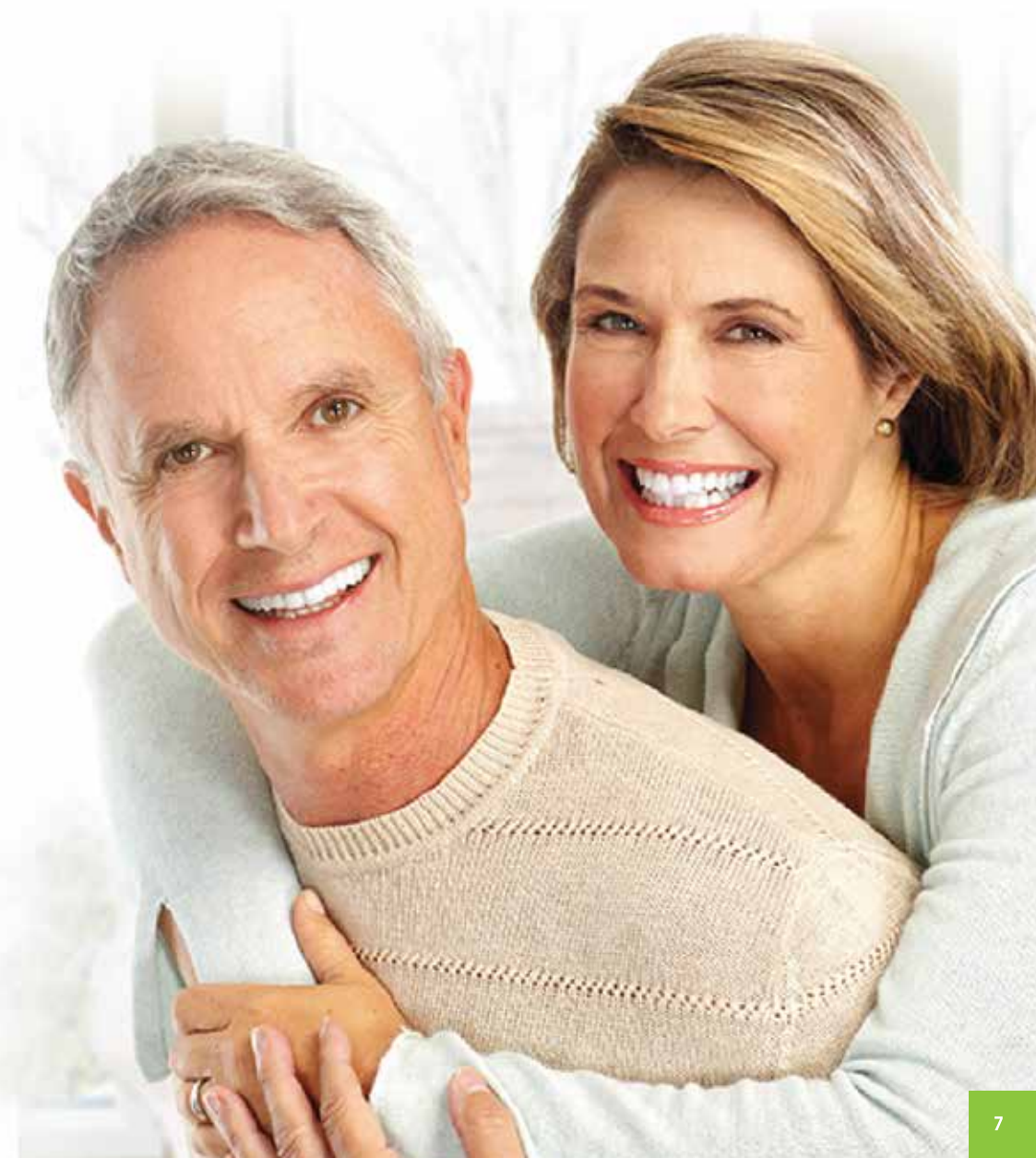
The Leka, Lightweight tiled conservatory roof is a revolution in the glass and glazing industry. It is providing owners of tired, old and energy inefficient conservatories with a radical solution to extreme temperature fluctuations they currently experience.

# The Benefits

- ❑ Warm and cosy in the Winter
- ❑ Cool and relaxing in the Summer
- ❑ Fast fitting with minimal disturbance
- ❑ Structurally tested GRP framework
- ❑ No Timber = No moisture absorption/rotting
- ❑ No Aluminium = No condensation/thermal bridging
- ❑ Lightweight structure, ideal for installation on conservatory framework
- ❑ Industry leading energy values
- ❑ Building regulations compliant



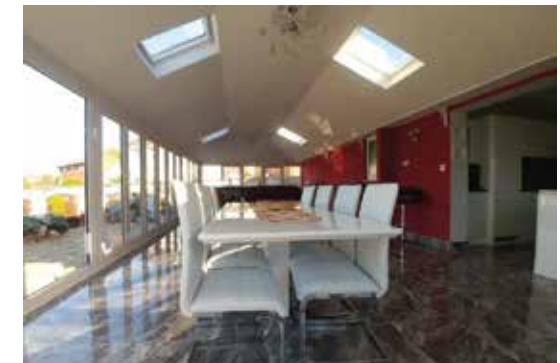
# Enjoy Your Conservatory All Year Round







## Stylish Interiors, tailor made for you



Our experienced staff understand that each property has its own style with your vision in mind. Whether it's for entertaining the guests at your next dinner party or cosying up with a cup of tea and a book. With a Leka system, you have the room to breathe and relax in your brand new, tailor made space..... not forgetting you can now use it 'all year round'.

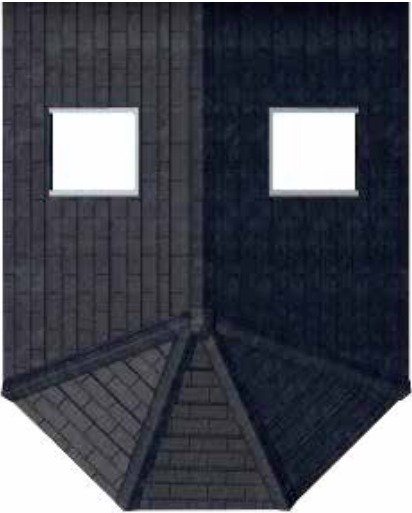


Options & Styles To Suit Your Property

# Styles of Leka Tiled Conservatory Roofs

The Leka roof is very diversified and can cater for almost any design of conservatory. See below a small sample of roof designs/shapes we can cater for and don't forget to ask one of the team about any other concepts you have in mind.

Victorian



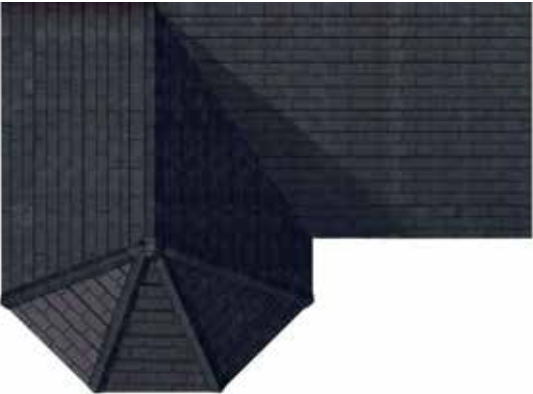
Lean-to



Gable Ended



Combination



Edwardian



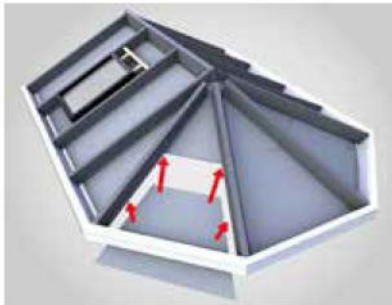


# Elements of a Leka Roof



## Glass Reinforced Plastic ( GRP )

The Leka Roof's frame (made up of rafters, a ring beam and ridge) is made from glass-reinforced plastic. GRP is a composite with tensile strength greater or equal to steel. Yet it will never corrode or rot. Nor will it shrink or warp. It's the perfect choice for a roof which is why we chose it. Other materials cannot beat it.



## Internal Leka Boards

We call them 'Leka boards' because we established the benefits for the Leka roof purpose. These are fitted beneath the GRP rafters. They are a third the weight of standard plasterboard, more thermally efficient and 100% waterproof, so will never degrade. They can be skimmed the same as plasterboard for a perfect finish. Depending on your chosen system energy value, alternative boarding may be supplied.



## Insulation Sheets

We tested a wide number of insulation sheets before choosing a small number of brands. In our opinion, these are the best insulation products on the market. The sheets are fitted with a 15mm gap from the Leka boards to create a warm air pocket. This provides high value thermal efficiency. Each sheet is perfectly cut for your roof. Alternative material can be supplied dependent on required energy value.



## External Leka Boards'

Next, our structurally tested, thermally efficient external Leka sheets are installed onto the rafters, covering up the construction beneath. The outer sheets are lightweight and have a high tensile strength. They are 100% waterproof, impermeable to moisture and have a longer life than wooden alternatives. This makes them far superior.





## Engineered Tiles

Of course, the extensive engineering time we put into developing the GRP for our lightweight tiled conservatory roof would be pointless if the tiles on top of it added too many kilos of weight. We found the solution in engineered tiles, which are strong, durable and available in a wide range of different colours.

We offer two engineered tiles: Our tiles which mimic concrete, and our slate tiles which mimic slate. These are lighter than real concrete or slate tiles but just as durable. They are suitable for roof pitches as low as 15 degrees and require no more maintenance than regular roof tiles. Importantly, they look good and offer a close match to the existing roof on most homes for aesthetic continuity.

The Leka roof compares favourably to other lightweight roof systems for conservatories and is probably the best system of its kind.

## Safe And Sound

There are no restrictions other than the pitch of the roof to be installed as well as what lies beneath your existing conservatory roof and this is governed by the rules of physics.

We at Leka Systems have seen every type of roof structure you can imagine over the years and also some roofs that are simply unsafe, due to the pitch and construction. With this in mind, all of our UK retailers, manufacturers and distribution partners have strict guidelines issued to them before installing any of our systems we provide to them.



## Lightweight Composite Plastic Slate

For centuries, slate roofing has been desired for its durability and beauty. With authentic surfaces and edges, our Slate highlights the handsome character of slate, at the same time enhancing roof performance through innovative design. Unlike natural slate, the Leka roofing slate won't break or delaminate and comes with a 40-year Warranty.

Our BBA Certified Slate gives you the power to evoke both historical elegance and outstanding modern-day style.



## Lightweight Concrete Tile Replica

Offering the rooftop quality and style, our Shingle, tiles have been designed with a unique hidden fix system that also enables the product to provide a seamless finish between tiles when completed.

Not only are these tiles, pre-cut at factory level for accuracy but are incredibly lightweight in comparison to concrete, so work well with the Leka roof system.

We have a variety of colours available to replicate a traditional concrete tile finish and can install our tiles down to 15 degrees in pitch.





# A Closer Look

## Roof Vents

The Leka roof system can be complimented by a number of highly engineered roof vents to suit your properties orientation, appearance and light requirement.

Roof ventilation also helps your space remain fresh when additional air movement is sought after in particularly aggressive weather environments.

The ambient lighting section is fine, however the roof picture on the bottom is not a tiled roof, it's an orangery and will need changing

## Ambient Lighting

For the perfect touch to any room, ambient lighting is the perfect compliment. With our wide range of spot lighting, positioned to the most optimal places. This will allow your new room to be enjoyable from morning til night.





# Tie Wire

A new visible slimline tie wire solution is available for your Leka System. This is 'optional' and replaces the need for the Leka GRP Tie bars regularly used.

Selecting a tie wire for your specified conservatory roof provides better visual benefits for gable ended roof products for example, allowing your gable end frame to continue to the roofs ridge point.

Not only are there visual benefits, but having a tie wire installed as an alternative to our tie bars will allow the internal roof line of the Leka System, to carry through up to the ridge point. This increases the volume of your conservatory and provides additional internal roof height.



# Leka Skylight System

The Leka SKYLITE system has been engineered to enhance your Leka Roof.

Providing additional light into your room, these slimline energy efficient units offer the best of both worlds. Sunk into your roof, creating a modern finish, the SKYLITE is designed to perfection.

Unit sizes can be bespoke in height but restricted to a maximum of 800mm wide. Having bespoke size options, offers flexible alternatives to opening roof vents.







## Thermal Efficiency

If your conservatory has a glass or polycarbonate roof, it is not as thermally efficient as it could be. You may have noticed your conservatory gets too hot in the summer and too cold in the winter. This is because of inadequate insulation.

You may even have a draught coming from the roof. This is because of gaps between materials. In older systems these often form over time due to a loss in roof rigidity. In newer systems poor design is the lead cause.

By and large though, most roofing systems have poor thermal efficiency because they are not well insulated. The by-product of this for you is your conservatory is too hot in the summer and too cold in the winter. The Leka Roof's solid construction is insulated like the roof on your house. This is much better for thermal efficiency and temperature regulation.



# The Leka Orangery Roofing System







## Leka Orangeries

Our orangerie flat roof kit replaces your existing fibreglass, traditional build, glass or polycarbonate roofing system with a lightweight, unique and corrosion free system.

The 'Leka System' is approved by MFA, the licenced building inspector and is proven to outperform and outlast most traditional materials used in flat roof installations. It is a truly lightweight, Orangerie flat roof system that has amazing span capabilities as well as thermal efficiency benefits.



## Designed For Home Owners

The orangery kit is designed for homeowners and built for the trade. It's incredibly lightweight, easy to install and complies with building regulation U-values. There are no aluminium or timber components in the build. The Leka System is built from four simple ladder kits made from GRP (glass reinforced plastic).

If you're looking to upgrade, replace or convert an orangery roof, our orangery roof conversion kit is up to 40% lighter than competitor products. It's the cutting-edge roofing system of choice for many installation companies and homeowners because of this. When only the very best will do, the Leka System delivers.





# Leka Bespoke Orangery Interiors



Allow your garden or home to be more a part of your properties conservatory/orangery. A Leka orangery can be suited to most applications and create a fantastic addition to your living space for whatever you require it for. Open up the frontage perhaps or knock through into a kitchen creating open plan dining.....the choices are endless. Speak with the team and find out just how a Leka orangery kit can create a grand dwelling at a cost effective price.



# The Steps To The Perfect Orangery

First, 'Glass Reinforced Plastic' rafter ladders are added to your existing, Orangery window frames. GRP is not prone to woodworm, moisture absorption such as traditional timber or condensation and thermal bridging such as bulky Aluminium alternatives. The beginning of your improved Orangery roof insulation.

Insulated PIR sheets or EPS alternatives are snugly fitted with a 15mm gap from the internal Leka sheets. We only use market leading brands, providing high-value thermal efficiency as well as a significant benefit in achieving a better Orangery, roof insulation efficiency level. A range of alternative materials are supplied, depending on which Leka System energy value is selected.

Next, our lightweight, structurally tested and thermally efficient external Leka Sheets are installed. These sheets are 100% waterproof and impermeable to moisture, making them a fantastic alternative to wooden alternatives.

An outer weatherproof coating is then applied by your installation company. This will provide final waterproofing along with a stylish finish, ensuring that your Orangery roof is the ultimate in watertight insulation.

A glass lantern is then lowered onto the current structure and fixed into place by your installer.

Next, internal Leka sheets are added underneath the GRP rafters. The Leka sheets are 100% waterproof and one third the weight of plasterboard. These sheets have unique thermal qualities as well, but allow for a traditional plaster skim finish to provide a nice visual aspect ready for painting afterwards. Alternative finishing boards are supplied, depending on your Leka Systems energy value of choice.





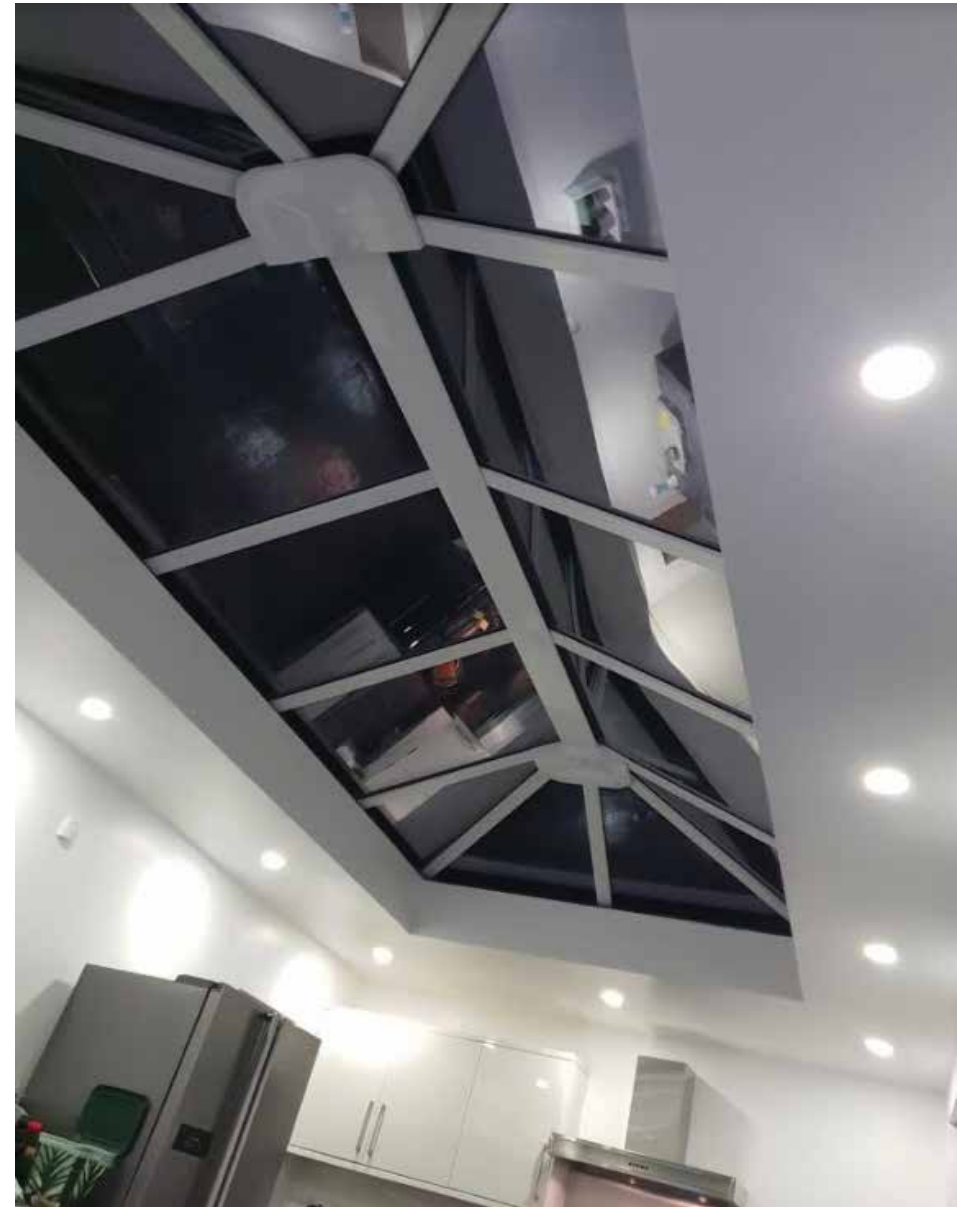
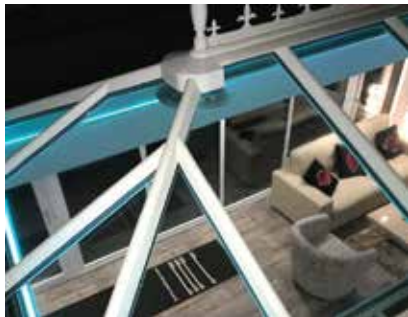


## At Night

Orangeries are the perfect space in the day. But, with the Leka style orangery, it's the perfect space for the night.

The surround spot-lighting which is optimised to cover every corner of the living space allows you to set the scene for any occasion. You can customise your space even more to you, by choosing from a range of lighting options allowing you to set the right mood for any atmosphere. Whether it's for a late night dinner party or spending quality time with your loved ones.

Even in the coldest of the nights, the Leka orangery system will keep your living space at a regular temperature. Allowing you to remain warm and at home.





**LEKA Xi** MODULAR CONSERVATORY BASE/WALL

# Leka Xi

To complete the Leka suite of products, the Leka Xi can provide a warm, sustainable alternative to a traditional block/brick built conservatory base/wall. Typically installed on concrete pads the Leka Xi saves time, mess and stress when considering a new build conservatory or single storey extension.

The GRP cladding skins come in a range of colours and offer a sustainable replication of either real brick work, stone or timber. We can even supply external boarding, immediately ready for a plasterer to render directly to.

Typically a conservatory, including the Leka Xi base/wall system, as well as a Leka roof, are installed in days.....not weeks. No thermal bridging or moisture absorption due to our GRP lightweight, structurally sound frame work. Thermally efficient to building regulation standards

Highly engineered, pre-fabricated modular sections, creating comfort that every part of the Xi has been factory tested before delivery. The Xi revolutionises the building market and provides homeowners with multiple benefits.



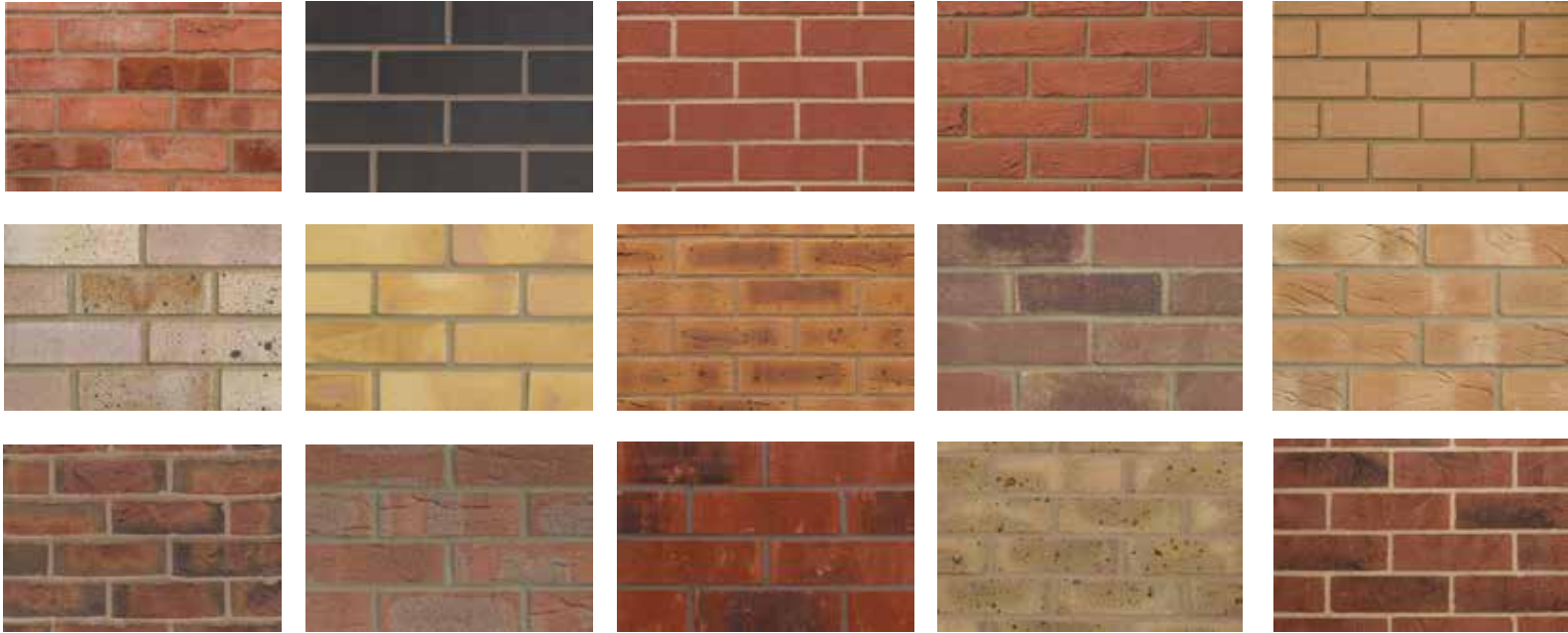
## Leka Xi Benefits

- Dwarf Walls, Full Walls or a Combination
- Installed in days, not weeks
- Save on heavy excavation work, so less mess
- Incredible thermal efficiency
- Building control compliant
- Ideal for homeowners with limited to no rear property access
- Cost effective
- Precision engineered, pre-fabricated modular sections
- No maintenance & authentic range of brick colour GRP clad Skins
- Lifelike GRP timber clad skins also available
- Ability to render onsite, creating total flexibility
- Ground Screws, so no concrete
- Surveys



# Authentic, lifelike GRP skins create a quick, clean alternative to traditional brick work

Below are just a small range of colours that are available. Ask your representative about further choices of external finish.





# Leka Carport & Canopy

# Leka Carport & Canopy

Leka Systems complements its roof and modular building systems by adding a Carport / Canopy System to its portfolio.

Engineered to the same standards as our core products, the Leka Systems Carport / Canopy is a product built to last.

Offering is bespoke design capabilities, this system can provide a solution for covering Cars, Hot Tubs, Patios, Walkways and more









# Testimonials

"Already loads warmer in the conservatory and can't wait to move furniture back in. Will provide us with what we wanted, turning a 6 months use a year conservatory, into a year round garden room! Thank You"

– Mr Morgan

HOME  
OWNER

"With no Aluminium or Timber elements, we can see how the system can provide better future proofing and a longer lifespan for conservatory customers across the UK"

– Mr Cook

INDUSTRY  
EXPERT

"Leka Systems from a Architectural design view looks fantastic. A great alternative to a traditional conservatory roof which makes a more versatile room. Having worked with the company before we can highly recommend their services"

– Robert Collins BSc (Hons) Arch. Tech

INDUSTRY  
EXPERT

"A great service from start to finish. Very pleased with the new leka system conservatory roof and would highly recommend this solid roof".

– Mr and Mrs Crossen

HOME  
OWNER

"I probably inspect and survey 200 to 250 properties a year, many of which have conservatories, often with plastic cellular roofs. In winter they haemorrhage heat, and in the summer can be unbearably hot. Some leak. The Leka System will seamlessly allow adaptation of an existing conservatory to provide a well insulated, and useable sun-lounge, without the need for full demolition and removal of the existing superstructure, resulting in considerable savings to the home owner. It really is an excellent concept".

– Tim Davies BSc(Hons)

INDUSTRY  
EXPERT

After careful consideration and reviewing a number of solid roof products on the market.....we are so glad we chose the Leka System.

We now actually use the conservatory more than the house and the workmanship of the installation company was second to none.

– Mr and Mrs Williams

HOME  
OWNER

"The new roof has completely changed how we use our conservatory. Instead of being too hot in summer and too cold in winter we are now able to use it all year round. Along with our new bifold doors it has meant we have been able to sit and enjoy our garden far more this summer than ever before. Thank you so much!"

– Mr and Mrs Beccles

HOME  
OWNER

"The benefits are far superior than what we had expected. Good service and excellent workmanship to complement such a fantastic product in the Leka System. We now have a conservatory that is usable again and have already recommended this to our friends/family".

– Mr and Mrs Jones

HOME  
OWNER

"We were introduced to the Leka system in 2015 and immediately knew the market would find it hard to ignore such an innovative system. With this in mind, we made an executive decision to be the chosen fabricator of choice within our region and to adopt the system into our product portfolio. This simply was too much of an opportunity to pass by as we are truly amazed by the innovation of product layers running throughout this system".

– Mr David Burles and Heidi Sachs

INDUSTRY  
EXPERT



# Certification And Regulations

At Leka systems, the entire team aims to deliver outstanding customer satisfaction as well as the most technological development in the conservatory roof conversion market for over 25 years. With this in mind we only affiliate ourselves with the very best and most respected consumer organisations and industry related certification bodies the UK has to offer. Satisfaction with Your conservatory roof conversion is our priority

Below you will gain knowledge of whom we are affiliated with as well as to which certification bodies have assessed, checked and certified our product as being as advanced as we detail in our website to make your conservatory roof conversion move successful.

MFA take their responsibilities to their clients seriously – they also know that they are trusted with professional reputations and lifetime investments. Their promise to you is that whether you are a multi-national developer or a one-person self-builder, jhai will do everything they can to provide you with the best, most efficient and cost-effective Building Control service possible.

LEKA SYSTEMS is proud to have undergone a lengthy in-depth assessment of not only our system, but our policies and training packages to ensure that all our structural details are accurate and that all of our condensation risk analysis reports, alongside our U value calculations are correct and up to date. With this in mind the Leka System is a fully approved registered system and only a certified installer should install a Leka System

## Building Regulations

A conversion to a solid conservatory roof always requires building control sign off. For a conversion to be signed off, it needs to comply with building regulations. This is the case for the Leka Roof and every other solid roof system. However, there is a difference with our system, and that is the Leka Roof is MFA Approved.

This means you do not need to engage local building control. The Leka Roof is certified by MFA Ltd, the Approved Inspector for building control licensed by the Government. The Leka Roof has been fully tested and assessed by MFA and determined to be fully compliant with Building Regulation requirements, which means you do not need to engage local building control for 'sign off' before commencing with building work. MFA will issue a Building Certificate after the work has been completed and checked. This is proof of compliance. Your installer will take care of this for you.

What about LABC approval?

MFA Certification is superior to LABC (Local Authority Building Control) approval because it renders a system exempt from local building control approval and involvement. Roofing systems with just LABC Approval are not exempt and still require local building control involvement, which means they require a certificate from local building control as sign off, which can slow the build down.

With the Leka Roof, MFA will sign off your installation. This speeds up the build time because the system itself has already been approved by MFA to be compliant with the latest building regulations; therefore, MFA will only need to sign off your specific installation. This simplified process speeds everything up.

We are extremely proud the Leka Roof is approved by MFA. Very few other roofing systems have been approved by MFA. Not only does this approval offer complete peace of mind your installation complies with building regulations (and is therefore a quality installation), but it means your conversion can be fast-tracked through building applications wherever relevant, if, for example, you want to convert from conservatory to extension.





*SYSTEM EXCELLENCE THROUGH INNOVATION*

[www.lekasystems.co.uk](http://www.lekasystems.co.uk)

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Solid Conservatory Roofs



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