



QUANTAL



## individual **VISION**

Do more than just add extra space  
to your home.

Strong, lightweight and thermally very efficient, using aluminium gives a Quantal extension a sleek, uncluttered look, improving the views of the outside and allowing more light inside.

Combined with advanced glazing options, Quantal's super insulated columns and an insulated pelmet create a Quantal extension that can be enjoyed all year round.

The result: a seamless continuation of your home, inside and out, with every detail designed to blend or contrast with your existing property.



# individual **SPACE**

Imagine your ideal home extension...  
with Quantal, it's possible.

This versatile system offers a huge range of detailing and design options, all thoughtfully considered and beautifully engineered, so you can create a completely unique addition to your home that's simply perfect for you.

Whatever style you choose, Quantal ensures your new space is usable all year round.

Roof lights, ventilation and solar glass keep it cool in summer, while insulating double glazing, draught-free construction and Quantal's unique super insulated columns and insulated pelmet system offer unrivalled warmth in winter.

So what would you choose? To help you decide, take a look at a few of the options available.



# why? ALUMINIUM

Extremely strong yet lightweight, aluminium is an exceptional material.

Using polyester-coated aluminium means Quantal frames are slimline and aesthetically pleasing with outstanding durability, retaining their colour and appearance with minimal maintenance for many years. The high strength and lower thermal expansion than u-PVC or wood means the roof is less prone to movement, too.



why?  
**QUANTAL**

The Quantal system is quality through and through. It's been cleverly designed to offer all the versatility of bespoke construction, with the practicality needed for easy installation.

**And it's the only aluminium glazed roof system to hold the prestigious BBA accreditation.**

It's a great feeling. Big skies, beautiful surroundings - changing your views and giving you so much more to admire. Light, airy spaces that lengthen summer evenings and brighten winter days. That's Quantal.

Developed over 20 years, the highly versatile Quantal system brings a unique look and refreshing feel to even the most individual and prestigious home – traditional or contemporary.



## individual **SPACE**

Imagine your ideal home extension ...  
with Quantal, it's possible.

Each Quantal configuration is designed using specialist software to make sure the specification exceeds the wind and snow loads required for the property's postcode. Then as much of the structure as possible is pre-manufactured, making construction simple and cutting down time on-site.

#### **Technical features:**

- To eliminate cold spots and any risk of condensation the Quantal Aluminium system has many thermal breaks throughout.
- Optional internal insulated pelmet to house lights or speakers and give a room-like feel.
- A patented speedlock system combined with Q-Ion gaskets eliminates any risk of glass slippage and improves security.
- Available in pitches from 2.5° to 40.9°. Variable ridges and a structural frame system mean the Quantal roof is configurable to almost any size and shape.
- External powder coated top and end caps are available in any colour and are easy to maintain.



individual  
**DESIGN**

**Conservatories**

to flood a room with light

Quantal is an ideal choice for conservatories as its slender frames offer a more slimline look than other materials such as u-PVC and wood. This versatile conservatory system allows for virtually endless design options, while the wide range of finishes and on-trend colours mean your new living space can perfectly complement or contrast with the rest of your home.



## individual **DESIGN**

**Orangeries** that add a unique feature to your home.

Quantal orangeries incorporate super-insulated columns (which are five times more thermally efficient than brick) and an insulated pelmet system, creating a room-like feel with exceptional warmth. The columns are designed to incorporate a bespoke heating system too, while the pelmet can feature discreet lighting or speakers for a streamlined look.



Ultrarroof



Livinroof



# individual DESIGN

warmth & light perfectly blended

## Solid Roof Extension

Solid roof extensions use the same basic framework as other Quantal structures, but you have the added flexibility of being able to replace any of these with glazed panels – allowing as much light in as you wish.

### Livinroof

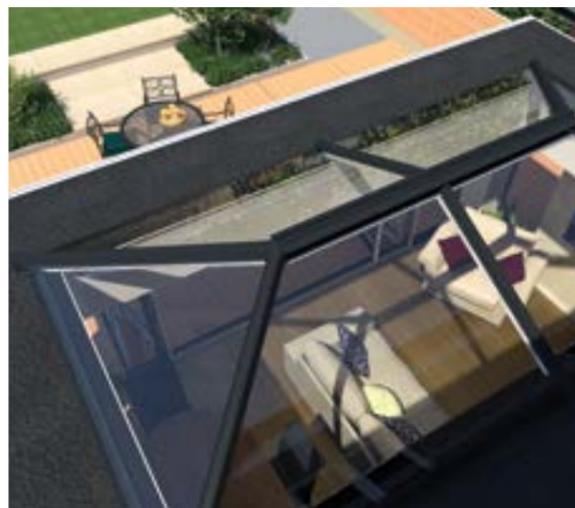
Livinroof is the first roofing system designed to give you the flexibility to combine solid and glazed roofing seamlessly. It helps you extend your living space and enhance thermal performance, to give you a room that you can use all year round.

Whether you are constructing a new home extension or replacing an old existing conservatory roof, the contemporary grey panels of Livinroof combined with glazing in any shape, allow for total design flexibility, providing the ability to create stylish and thermally efficient room like no other solution on the market.

### Ultrarroof

For those consumers who still want an element of light through their new solid tiled roof, the clever configurable technology of Ultrarroof allows for the fitment of multiple glass panels – this can be a major consideration to project light into the adjacent room.

Ultrarroof is a cost effective, lightweight solid roof that is perfect for the replacement of tired conservatory roofs. Unlike other solid roofs, Ultrarroof never needs a tie-bar - creating a beautiful vaulted plastered ceiling inside with a stepped detail at the eaves that is perfect for cables and spotlights.



## individual **DESIGN**

### A Lantern Roof

allows light to flood in

A glazed lantern roof is an ideal way to add a feeling of space and let more light into a living room, kitchen, dining room, bedroom or bathroom.

The Quantal lantern sits on a flat roof or orangery deck and is designed to perfectly complement your property's style - whether traditional or modern - while using thermally-efficient glazing to reduce heat loss and intrusive noise.

# Glazing options

Glass is generally classified in terms of the following performance criteria:



**Light Transmission**  
Percentage of light transmitted through the unit. A high % can reduce glare from the sun.



**Solar Rejection**  
The proportion of the sun's heat that is rejected. Generally the higher the percentage the better the glass is, however if you have a North facing or shady site you may want solar rejection to be lower.



**U Value w/m2**  
A measure of how good the material is at preventing heat loss to the outside. The lower the figure, the more thermally efficient it is.



**UV Protection**  
The higher the percentage, the lower the possibility of furniture and fabrics fading.



**Self Cleaning**  
All Conservaglass is self cleaning, specially designed to remain cleaner for longer than conventional glass. The transparent coating on the glass, harnesses the power of ultra-violet rays from the sun and rain (or water) to break down dirt and grime then wash it clean away.



**Quality as standard**  
All glass is toughened, double glazed safety glass: 4mm glass - 16 mm Argon filled cavity - 4 mm glass with black warm edge spacer as standard. It is manufactured in specialist roof glass factories and guaranteed for 10 years.

## Conservaglass colour options



Conservaglass	Tier 4	Tier 3	Tier 2				Tier 1			
<b>Glass Specification</b>	ULTRA83 Blue	Ultimate Blue	4S Blue	4S Neutral*	4S Aqua	4S Bronze	Blue	Neutral*	Aqua	Bronze
<b>Light Transmission %</b>	25	27	41	37	32	42	52	45	39	52
<b>Solar Rejection %</b>	83	80	72	71	78	66	60	60	72	51
<b>U' value</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2
<b>UV Protection/Rejection %</b>	90	90	86	82	90	89	83	78	92	86

\* Neutral coating gives a slightly grey appearance

## Ventilation

The type of ventilation you need is specific to your conservatory, based on many considerations such as size, shape and most importantly, aspect in relation to the sun. South-facing sites may need more ventilation than North-facing sites, and other factors to consider include overshadowing from obstacles such as trees and buildings. A range of ventilation options are available to provide a comfortable living environment.



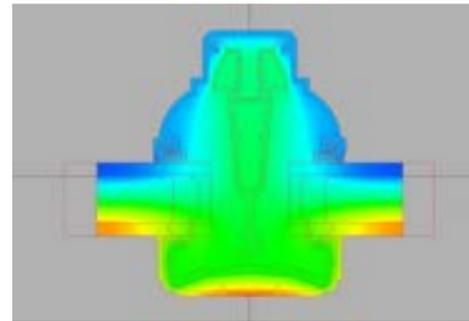
## Engineered to your postcode

Every Quantal roof is engineered for the extremes of the UK climate and to your specific postcode. Incredibly, specialist software uses accurate data from NASA to calculate the altitude of your home, along with predicted, snow load and wind speed. Simply give the installer your postcode to ensure compliance with the correct structural loads.

The Quantal research and development team continues to innovate and enhance our products, so you can be certain that you're getting the latest in roofing technology, engineered specifically for your own home.

## Thermal performance of bar

To eliminate cold spots and any risk of condensation the Quantal aluminium system has many thermal breaks throughout.



- Thermal isolating clips provide a thermal barrier between the aluminium top cap and the rafter.
- U-PVC internal cap provides a thermal barrier on the inside
- The polyamide structure of the ridge provides an advanced thermal break to provide protection against the elements.

why?

## CORNICE

A choice of four designs adds style and shape to the roofline for the perfect finishing touches to a standard conservatory. The Cornice hides the gutter and bar end caps to give a stunning look that complements any property.

A decorative cornice adds shape and style to any roofline, concealing gutters and rafter ends. Best of all there are 4 styles to choose from.





All of the exciting range of home additions in this brochure feature the Quantal aluminium roofing system. Quantal's policy is one of continuous development and specification and ranges may change without notification.

**QUANTAL**

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