

# Glazing options

The glazing in your roof can have an impact on its temperature and energy efficiency so it's important to work closely with your installer to choose the correct specification for the orientation of your home.

All of our glass is self cleaning, toughened and double glazed safety glass as standard.

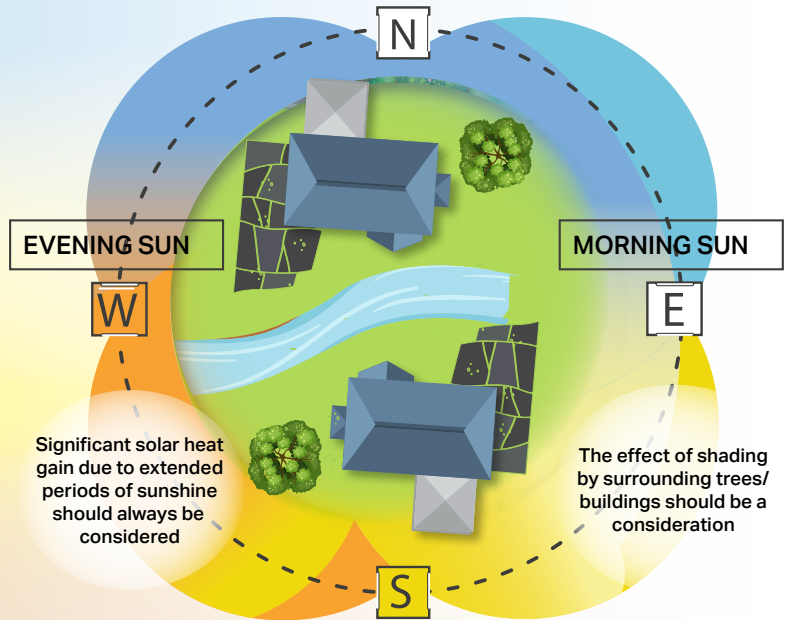
## North or East Facing Specification

North or East facing locations will tend to be shady and cool receiving little direct sunlight. Glass with high light transmission and low solar rejection is a great choice as it will allow more heat and light to enter the room and warm the space.

## South or West Facing Specification

A South or West facing location may be in the sun for most of the day, which brings lots of bright, natural light. The heat from the sun can also mean the room becomes too bright or unpleasantly warm, unless the correct glazing is specified.

Choose glazing which has a low level of light transmission and higher levels of solar rejection. We can supply glass with a U-Value of just 1.0, which is three times more energy efficient than a standard glass unit.



## Conservaglass by Ultraframe "Energy Saving Glass"

Performance	Best Insulation					
	Low		Medium			High
Product Range	Ultimate Blue	Aqua 4S	Bronze 4S	Blue 4S	Neutral 4S	Clear 4S
U-Value	1.0	1.0	1.0	1.0	1.0	1.0
Light Transmission	24%	29%	42%	28%	38%	68%
Solar Gain (G)	18%	19%	34%	33%	30%	45%
UV Protection	94%	94%	91%	92%	85%	80%
Colour Tint	Blue	Aqua	Bronze	Blue	Neutral	Clear

### Best all rounder

Performance	Great Insulation					
	Low	Medium			High	
Product Range	Std Aqua	Std Bronze	Std Blue	Std Neutral	Std Clear	Std Glass
U-Value	1.2	1.2	1.2	1.2	1.2	2.8
Light Transmission	32%	52%	24%	44%	77%	80%
Solar Gain (G)	24%	49%	46%	43%	70%	75%
UV Protection	92%	82%	90%	79%	71%	25%
Colour Tint	Aqua	Bronze	Blue	Neutral	Clear	

The position of your roof can have a direct impact on the design. South facing sites receive more sun than North facing. The need for ventilation and shading will also vary and effect the choice of glass.

The % of solar gain is the measure of how much solar energy passes through the glass. E.g. Ultimate blue has a 18% solar gain meaning 82% of the solar energy is rejected and will not pass through.

# Glazing options

Ultraframe offer a range of glazing options to be used with our roofing systems which vary in specifications and colour options.

Ordering from Ultraframe is simple and easy, reducing the number of suppliers as well as providing you with specialist support in choosing and providing your glazing requirements.

In summary, Ultraframe can support you with;

- One call gets it all.
- Confidence by ordering from one source.
- No mis-measures, split responsibility or waiting for glass sizes.
- 5-7 day lead time.
- Specialist roof glass factories - we know shapes!
- Delivered to your premises or site.
- 10 year warranty.



## Conservaglass Range

- True self cleaning
- Keep out up to 82% of the sun's heat energy
- U-Values of 1.0 or 1.2
- All units are 4-16-4 toughened, argon gas filled and come with black warm edge spacer as standard
- Up to 3.59m long units in tier 1 blue (see table below), max length other specs are 3200mm
- Warm Edge Spacer

## Conservaglass

Conservaglass is a high-performing glazing product used to ensure your customers get the best value from their investment. It comes in a range of different colours (tier 1 and 2) – which means you'll be able to customise the appearance of your conservatory, with self cleaning included on all options as standard. With a variety of U-Value and solar rejection options, Conservaglass is an ideal glazing product to be used in Ultraframe's roofing systems.

### Conservaglass details:

- **Conservaglass Standard** - With self cleaning coating technology, Conservaglass Standard is the perfect where light transmission is received. Available in blue, neutral, aqua and bronze.
- **Conservaglass 4S** - Offers up to 94% UV protection and 81% solar rejection as well as the self-cleaning properties. Available in blue, neutral, aqua, bronze and clear.
- **Ultimate Blue** - Ultimate Blue intelligent glass reflects 80% of solar energy in your new conservatory and will help reduce heat and solar glare in summer. Available in blue only



#### U-Value

U-value measures internal heat loss, the lower the number, the greater the insulation.



#### UV Protection/Rejection

Reduces the effect of harmful UV rays allowing greater protection of your furniture and fabrics.



#### Light Transmission

Conservaglass softens the impact of natural light through the roof of your conservatory, for increased comfort.



#### Colour tints

A variety of colour choices are available.



#### Solar Rejection

Conservaglass reflects approximately 3 times more solar energy than standard glass.



#### Cleaning

A coating that actively breaks down organic materials using the power of the sun. Rain water then washes this away meaning a greatly reduced need for maintenance.

# Glazing specification

			Tier 3	Tier 2					Tier 1				
	Standard Glass	25mm Poly	Ultimate Blue	Aqua 4S	Bronze 4S	Blue 4S	Neutral* 4S	Clear 4S	Std Aqua	Std Bronze	Std Blue	Std Neutral*	Std Clear
U-Value	2.8	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2
Light Transmission	80%	68%	24%	28%	42%	48%	38%	65%	32%	52%	56%	44%	77%
Solar Rejection	25%	45%	82%	81%	66%	67%	70%	52%	76%	51%	54%	57%	30%
UV Protection/ Rejection	25%	45%	94%	94%	91%	92%	85%	80%	92%	82%	90%	79%	71%
Toughened to BS EN 12150-1	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manufactured to BE EN 1279-2	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10 year guarantee	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cleaning	✓	X	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean	Self Clean
Cavity Fill	Air	X	Argon	Argon	Argon	Argon	Argon	Argon	Argon	Argon	Argon	Argon	Argon
Warm Edge	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24mm* (4-16-4)	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Colour tint	✓	X	Blue	Aqua	Bronze	Blue	Neutral	Clear	Aqua	Bronze	Blue	Neutral	Clear
Glare Reduction	X	X	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X

Not supplied

Oversized units available in Conservaglass in blue and neutral  
\*Neutral coating gives a slightly grey appearance.  
Equivalent glass may be substituted.  
Delivery cost for glass may apply.

In order to pass building regulations, the thermal design guide within UDesign will provide the specific U-value of each glass roof.

## Oversize\* Sealed Units

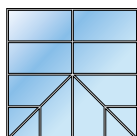
Unit Length from	3200 - 3590mm
Width in mm	790

Pitch Conversion Factor	
Up to 12.5°	No factor
12.6-15°	+ 4%
15.1-20°	+ 6%
20.1-25°	+ 10%
25.1-30°	+ 15%
30.1-35°	+ 21%
35.1-40°	+ 30%

### Pitch Factors and calculating your glazing area

U Design will calculate your exact price but use this 'ready reckoner' for an approximate price

**Georgian with jack rafters** | Size - 4m x 4m | Pitch - 25°



- 4m x 4m = 16m<sup>2</sup>
- Pitch 25° - add 10% for pitch factor (see table)
- 16m<sup>2</sup> + 1.6m<sup>2</sup> = 17.6m<sup>2</sup>