TRIPLE GLAZING BY SOLA WINDOWS

More comfort.
Less heat loss.

A practical guide to better glazing, achievable performance and choosing the right upgrade for your budget.



An extra pane.
A considered upgrade.

Double or triple glazing options. Everyday comfort.
Specialist systems for more demanding homes.

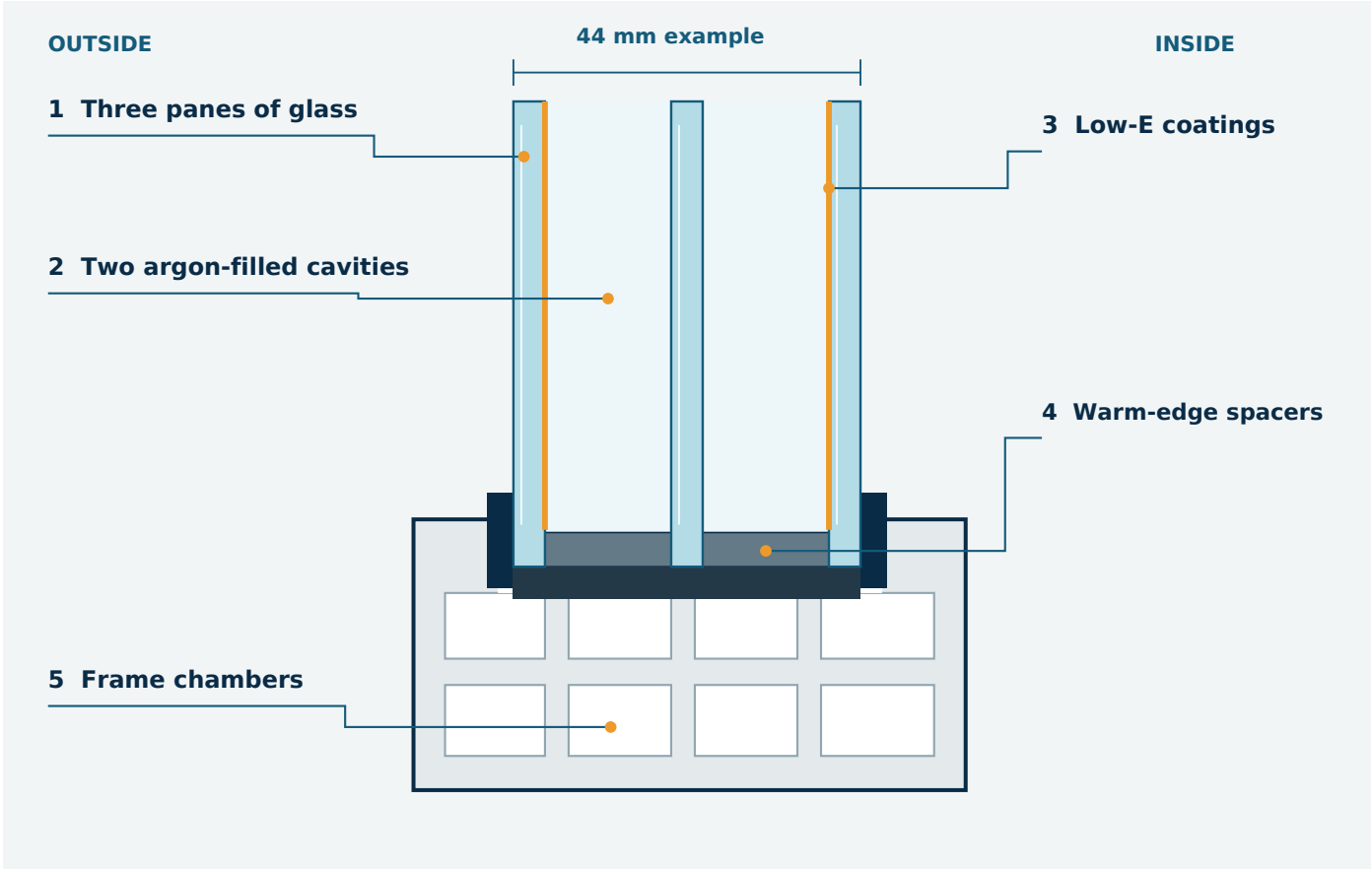
COMFORT / PERFORMANCE / CHOICE

Lifestyle imagery is illustrative.

BUILT TO INSULATE

Three panes. Two cavities.

The glass, coatings, edge spacers and frame work together to slow heat transfer. Here is what a typical triple-glazed construction looks like.



Illustrative PVC-U section, not a manufacturer drawing. Example glass build-up: 4 / 16 / 4 / 16 / 4 mm = 44 mm. Not to scale. [2]

1 Three panes

An additional pane creates a second insulating cavity.

2 Argon-filled cavities

An insulating gas fill helps limit heat transfer between panes.

3 Low-E coatings

Microscopic coatings help reduce radiated heat loss.

4 Warm-edge spacers

Separate the panes and reduce heat loss around the glass edge.

5 The profile matters too: frame chambers, seals and the glazing detail all influence the finished window. Exact construction is confirmed in your quotation.

KNOW WHAT YOU ARE COMPARING

U-values, made clear.

A lower U-value means less heat passing through. Always compare the same measurement. Values are expressed in W/m²K.

Ug | Glass only

The centre-of-glass performance of the sealed unit.

Uw | Whole window

Includes the frame, glass and glass-edge detail.

MEASUREMENT	DOUBLE	TRIPLE	PUBLISHED EXAMPLE
Glass only: Ug	1.0-1.1	0.5-0.7	Pilkington Optitherm glass builds. Coatings, cavity width and gas fill affect the result. [2]
Whole window: Uw	1.2	0.8	Residence 9: 28 mm double or 44 mm triple glazing examples. [3]

Examples of achievable performance, not a universal specification. Window size, opening style, reinforcement, glass and spacer choice can change Uw. Confirm the value for your exact window.

33%

less window heat loss in this example

Moving from Uw 1.2 to 0.8 reduces conductive heat loss by one third at the same area and temperature difference. Actual bill savings depend on the whole home.

More comfort

Better insulation can reduce the cold feeling near windows. [1]

Less condensation

Warmer inner glass can reduce risk; ventilation and humidity still matter. [1]

Sound, specified

Noise performance depends on glass, seals and vents. Ask for acoustic data. [6]

AN UPGRADE THAT SUITS YOUR HOME

Your home. Your budget.

Many modern replacement window systems offer a choice of double or triple glazing. The right upgrade need not start with the most expensive frame.



Sola Windows project photograph. Glazing performance is specified separately for each quotation.

Everyday energy efficiency

Ask us to price double and triple glazing within a suitable system. Comparing the extra cost early may bring triple glazing within your budget. Residence 9, for example, accepts both 28 mm double and 44 mm triple glazing. [3]

More demanding homes

For a low-energy or Passive House brief, specialist systems combine stronger insulation, suitable glazing and carefully designed installation. We can discuss options, with availability and project suitability confirmed before quotation.

0.66 **Uw**

A specialist example: Cortizo A 84 Passivhaus HI.
Published Uw from 0.66 W/m²K; certified for cool-temperate climates. Exact performance depends on the specified configuration. [4]

Existing frames? A glass-only upgrade needs a survey. Unit thickness, glazing beads, sash weight limits, hinges and hardware must all be suitable. Triple glazing is not an automatic fit in every existing window.

A WHOLE-HOME APPROACH

Better glass. Better planning.

A high-performance window is one part of an energy-efficient home. Ask Sola Windows to help you compare the complete specification.

1 Installation matters

Good airtightness and an insulated perimeter detail help the window perform as intended.

2 Plan ventilation

Manage moisture and fresh air alongside insulation. Retain the ventilation your home needs.

3 Balance sun and shade

Consider orientation, shading and solar-control glass where summer overheating is a concern.

4 Request the exact Uw

For cool-temperate Passive House component guidance, benchmark Uw is 0.80 or installed Uw 0.85 W/m²K. A low window value alone does not certify a home. [5]

Let us compare your options.

Tell us your budget, preferred style and performance target.
We will discuss suitable double, triple and specialist glazing options.

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TECHNICAL SOURCES & NOTES

1 Energy Saving Trust - energy-efficient windows and doors

2 Pilkington - Optitherm range and thermal performance data

3 The Residence Collection - glazing options and U-values

4 Cortizo - A 84 Passivhaus HI system specification

5 Passive House Institute - climate-specific window guidance

6 Glass and Glazing Federation - glazing and noise reduction

Sources checked October 2026. Figures are published examples, subject to the exact product, dimensions and installation. Prices, availability and quoted performance are confirmed per project.