

# regency triple

CORNING | Enlighten™ Glass

a **breakthrough** glazing solution  
designed to meet the needs of today's  
homes and tomorrow's expectations.



# Comfort Today

## *Savings Tomorrow*

**Windows that meet current UK legislation can account for over 40% of your home's heat loss.**

In recent years, energy prices have surged, with experts forecasting this to continue, so insulating your home has never been more important. By upgrading your window or door glass, you can improve thermal performance, reduce heat loss, and enjoy meaningful savings on your energy bills.

### **What is Regency Triple® featuring Corning® Enlighten™ Glass?**

Regency Triple® featuring Corning® Enlighten™ Glass is an advanced, next-generation triple-glazed unit, developed by Regency Glass in collaboration with Corning Incorporated. By using ultra-thin Corning® Enlighten™ Glass as the middle pane, Regency Triple delivers the high thermal performance of conventional triple glazing, while being up to 30% lighter than standard triple-glazed units and only around 5% heavier than conventional double glazing. The result is outstanding performance without the weight and thickness traditionally associated with triple glazing.

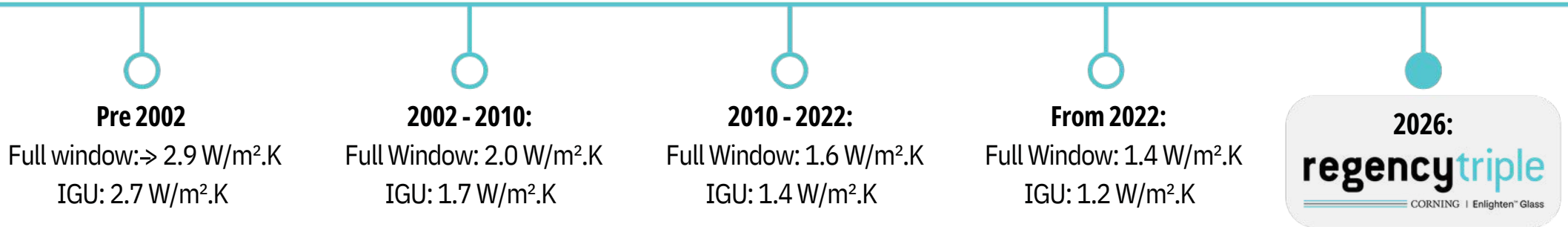
**CORNING**  
Enlighten™ Glass



# Glass Performance: *Then and Now*

The U-value of a window is a critical measure of its thermal performance, indicating how well it insulates against heat loss. A lower U-value means better insulation and performance.

*U-value standards over the years...*



Since 2002, UK Building Regulations have steadily tightened these limits to improve energy efficiency. These evolving standards reflect innovation in glazing technology, helping homeowners and landlords enjoy warmer, more energy-efficient homes that meet modern expectations.

## How Regency Triple® featuring Corning® Enlighten™ Glass shapes the future...

Enabling U-values as low as 0.5 W/m<sup>2</sup>.K, Regency Triple allows whole-window U-values of 0.8 W/m<sup>2</sup>.K, meeting Passivhaus standards. This means outstanding insulation, lower energy bills, and a more comfortable home, without compromising on weight or style.

Your guide to

# regencytriple

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## 28mm Regency Triple®

Leaf 1	4mm Planitherm® One T FG
Cavity 1	9.75mm TPS® / 90% Argon Gas Filled
Leaf 2	0.5mm Corning® Enlighten™ Glass
Cavity 2	9.75mm TPS® / 90% Argon Gas Filled
Leaf 3	4mm Planitherm® One T FG



28mm

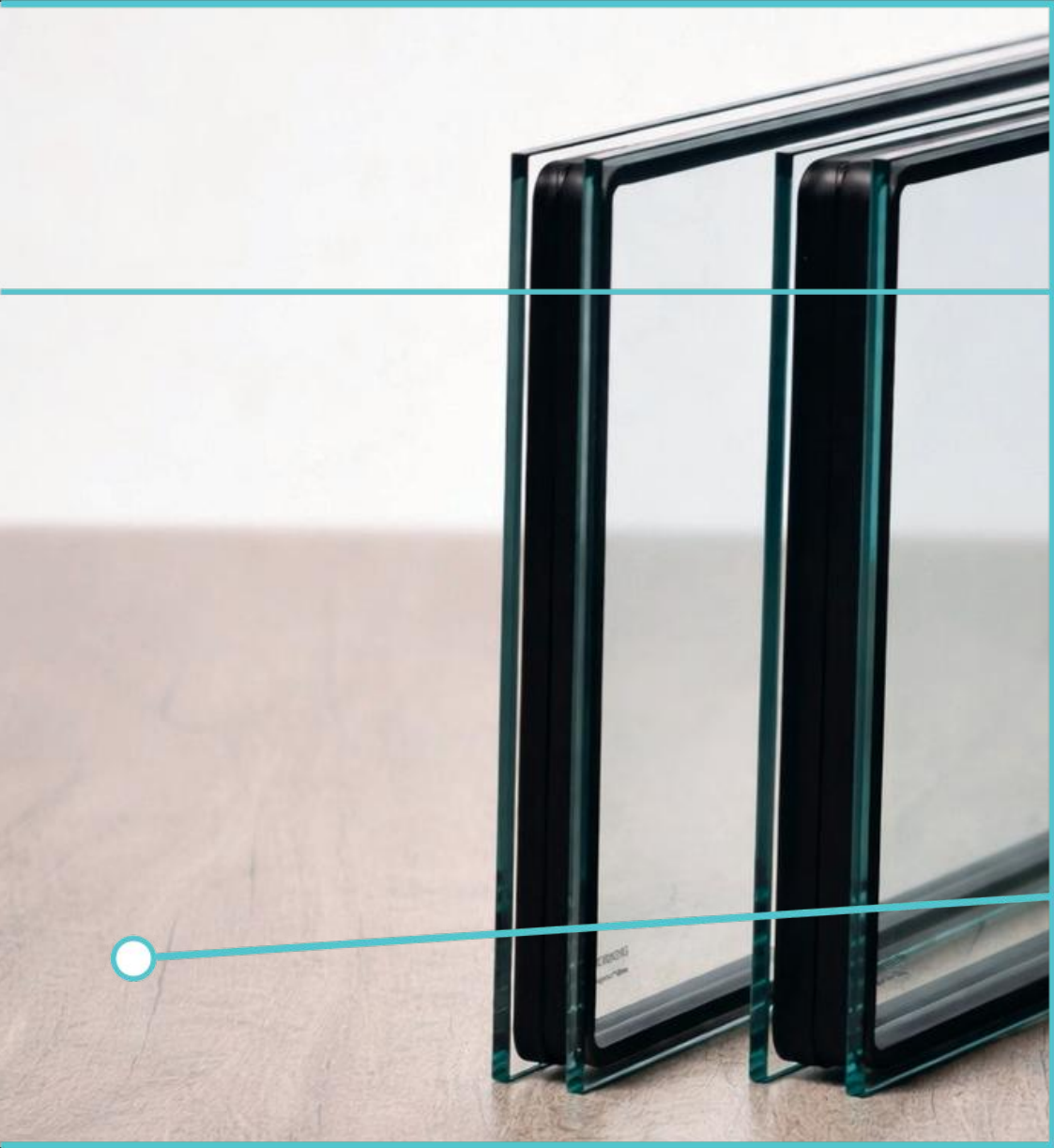


0.8 W/m<sup>2</sup>.K



21 kg/m<sup>2</sup>





### 36mm Regency Triple®

Leaf 1	4mm Planitherm® One T FG
Cavity 1	13.75mm TPS® / 90% Argon Gas Filled
Leaf 2	0.5mm Corning® Enlighten™ Glass
Cavity 2	13.75mm TPS® / 90% Argon Gas Filled
Leaf 3	4mm Planitherm® One T FG



36mm



0.6 W/m<sup>2</sup>.K



21 kg/m<sup>2</sup>

### 44mm Regency Triple®

Leaf 1	4mm Planitherm® One T FG
Cavity 1	17.75mm TPS® / 90% Argon Gas Filled
Leaf 2	0.5mm Corning® Enlighten™ Glass
Cavity 2	17.75mm TPS® / 90% Argon Gas Filled
Leaf 3	4mm Planitherm® One T FG



44mm



0.5 W/m<sup>2</sup>.K



21 kg/m<sup>2</sup>

*\*Please note 0.5 W/m<sup>2</sup>.K is achievable from 40mm\**



# Triple Glazing, Redefined

The benefits of Regency Triple® featuring Corning® Enlighten™ Glass



Lowers heat loss through windows by up to 60% compared to standard double glazing. This helps reduce heating bills and makes homes more energy efficient.



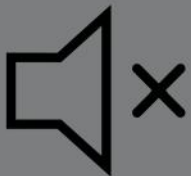
Significantly reduces heat transmission, helping homes stay warmer in winter and cooler in summer for improved year-round comfort.



Laminated glass options enhance security performance, providing increased protection for the home. In addition, laminated glass reduces UV light transmission by up to 99%, helping to protect furniture and interiors from fading.



Helps keep rooms and internal glass surfaces warmer by reducing heat loss. This reduces the risk of condensation forming, preventing mould growth and supporting a healthier indoor environment.



Utilising acoustic laminated glass, reduces noise ingress into homes, contributing to a quieter indoor room environment, enhancing everyday comfort.



Conventional TGUs are up to 50% heavier than standard DGUs, placing additional strain on window hinges and frames. Regency Triple® is only 5% heavier than a standard DGU, helping to reduce the risk of long-term hardware performance issues.



# Better. Lighter. *Smarter.*

Enhanced thermal performance is not the only advantage of Regency Triple® featuring Corning® Enlighten™ Glass.

Some windows and doors were never designed to carry the extra weight of conventional triple glazing.

By choosing Regency Triple®, you gain peace of mind knowing the unit weight is similar to double glazing, placing no additional strain on window and door hinges, frames, or hardware.

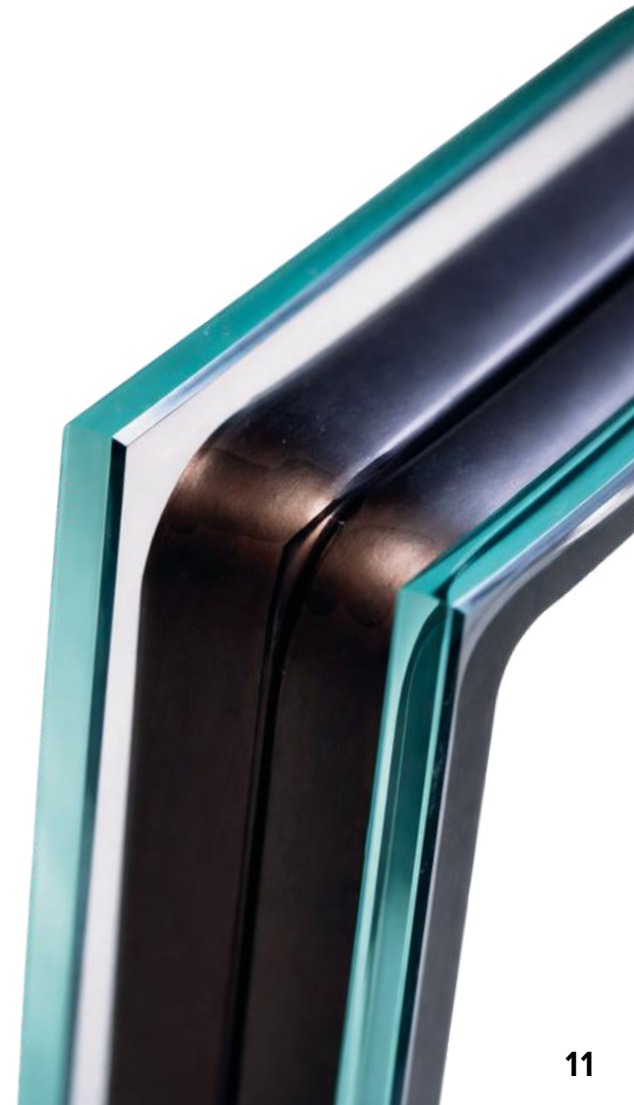
## Durable through *innovation.*

Designed to perform in real-world conditions, Corning® Enlighten™ Glass has up to three times lower thermal expansion than standard soda-lime glass. This allows it to withstand temperature differences across the glass surface, helping to reduce stress and the risk of breakage, even in extreme conditions.

*High-performance triple-glazing for next-generation window systems.*

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