



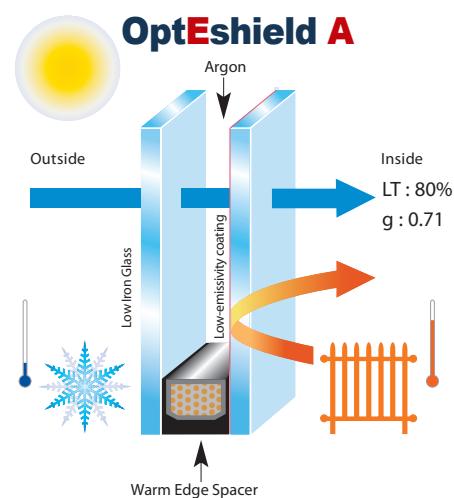
# OptEshield A

Exceptional Energy Efficiency

Wexford Viking Glass are pleased to announce the addition of **OptEshield A** to our range of products. This is our most energy-efficient unit yet and boasts the following improvements:

- **Window Energy Ratings of “A”** are now easily achievable with **OptEshield A**.
- The introduction of improved advanced performance **Low E** glass.
- **U-value of 1.163 W/m<sup>2</sup>K**.
- Improved **Solar Gain** allows more heat from the sun to pass through the window yet minimises heat loss from inside.
- **Warm Edge Spacer Bar** improves thermal performance and further reduces the possibility of condensation. Our spacer bar offers one of the best thermal values on the market.
- The introduction of **Low-Iron** glass helps to balance the unit by reducing the temperature difference between the outer and inner panes.
  - **Neutral Appearance** means exceptional clarity with more natural light passing through the unit (white curtains look white).
    - **Argon gas** as standard. 90% fill
    - Manufactured in full compliance with **EN1279**.
    - Available in standard and toughened.

**OptEshield A** means  
conserving Energy



## Technical Specifications and Information

1st Pane	Spacer Bar	Gas	2nd Pane	U-Value	SOLAR FACTOR	Sound Insulation (db)	Light Transmission
Low Iron	Warm Edge	Argon	Low E Soft Coat	1.162	g 0.71	31 Rw (dB)	Lt 80%



# OptEshield A

Exceptional Energy Efficiency

**Window Energy Ratings** - Help promote the use of energy-efficient products. This system helps specifiers and consumers determine the most energy-efficient products available. This system is similar to the system used on white goods eg washing machines and fridges. The higher up the scale the more energy-efficient the product.

**U-Value** – Is a measure of air-to-heat transmission loss due to thermal conductance & the difference in indoor & outdoor temperatures. As the U-Value decreases, so does the amount of heat that is transferred through the glazing material.

**Solar Gain** – Is a measure of how much heat from the sun comes through the glass or window. The rating is expressed as a fraction between 0 and 1. The higher the rating the more heat passes through the glass or window.

**Light Transmission** – Is the percentage of visible light transmitted through the glass. The higher this figure the more daylight the glass allows enter the building.

**Sound Insulation** – Sound is measured in decibels and travels in waves. Rw is the average insulation value over a wide range of frequencies.

**Warm Edge** – This is the spacer bar between the two panes of glass. A warm edge spacer bar helps improve the thermal conductivity of the unit which in turn helps prevent further heat loss. The possibility of condensation is further reduced.

**Low Emissivity (Low E)** – This coating helps reflect heat back into the room thus conserving energy. It is a special coating applied to the glass during manufacture & helps reflect heat back into the room.

**Low Iron** – Is an ultra-clear glass that greatly improves the solar gain and light transmittance of a double-glazed unit.

**Argon Gas** – Is a colourless, odourless non-flammable inert gas. Argon is used in double-glazing to further reduce heat loss by slowing down convection inside the air space.

**OptEshield A** is available from most leading window companies or directly from **Wexford Viking Glass**



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