

Ecomerchant Traditional Windows & Doors Glazing Specification



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Glass Specification

Formula to calculate weight of glass:

$$\text{Weight (kg)} = 2.5 \times \text{Width (m)} \times \text{Height (m)} \times \text{Glass Thickness (mm)} / 100$$

Example: 1m x 1m glass – 4/14/6.5 specification

$$\text{Weight (kg)} = 2.5 \times 1 \text{ (m)} \times 1 \text{ (m)} \times 10.5 \text{ (mm)} = 25 \text{ (kg)}$$

Standard Specification Options

Standard Window Units:

- 4/16Ar/4, (24mm) Argon filled soft coat low 'e'
- 31dB
- $U_g=1.1\text{W/m}^2\text{K}$ (centre pane value)
- Can be toughened inside / outside or both sides
- 20kg/m²

Standard Door Units

- 6.4/20Ar/6.4, (33mm) Argon filled low 'e'
- 32dB
- $U_g=1.1\text{W/m}^2\text{K}$ (centre pane value)
- 32kg/m²

Please refer ask ask the **Ecomerchant** technical team for full range of glass options and further technical specification details of available glass types.

Relation between glass thickness and sound resistance:

The thickness of each pane of glass does not necessarily determine the overall sound resistance of the DGU. More important is the frequency that each pane oscillates at. i.e. 4mm thick glass transfers a different sound (noise) frequency than 6mm thick glass. That means the sound (noise) is reduced more when the panes of glass are of different thickness (e.g. Safety only or Security only)

Window Glass Options:

- Safety: 6/14Ar/4, Argon, 34dB (est), $U_g=1.2\text{W/m}^2\text{K}$ (centre pane value), 25kg/m²
- Security: 4/14Ar/6.5, Argon, 34dB (est), $U_g=1.2\text{W/m}^2\text{K}$ (centre pane value), 26kg/m²
- Safety & Security: 6.5/12Ar/6.5, Argon, 33dB (est), $U_g=1.3\text{W/m}^2\text{K}$ (centre pane value), 32kg/m²

Also available in std/safety/security/safety and security configurations:

- Krypton Filled double glazed units
- Anti-Sun Tinted Glass (grey / blue / bronze / green)
- Painted Glass
- Self Cleaning Glass
- Acoustic Glass



Laminated (Safety/safety and security) glass carries a BS kite-mark etched onto the glass at the right or left hand bottom corner of the glass.

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