Cedar Doors Ltd

Wimsey way, Somercoates, Derbyshire, DE55 4LS

Part L–Aligned Technical Statement – Sectional Timber Garage Door (this only applies if supplied with the insulation Pack)

Thermal Performance Assessment – Compliance with Approved Document L

The sectional timber garage door has been assessed in accordance with the principles set out in **Approved Document L (Conservation of Fuel and Power)** and the calculation methodology of **BS EN ISO 6946**, using the known thermal properties of the component materials and an area-weighted approach.

The door construction comprises a 9 mm Tricoya external facing, a 30 mm PIR insulation core, and a 6 mm internal plywood lining, within a 90 mm timber-framed structure. The assembly incorporates four insulated sectional panels with compression-type inter-panel seals, together with continuous perimeter sealing at the head, jambs, and threshold.

Based on this construction and allowing for the thermal influence of framing members, sectional joints, and edge sealing, the **calculated whole-door U-value is approximately 1.1 W/m²K**, with a reasonable tolerance range of **1.05–1.20 W/m²K**.

This value represents a **calculated in-situ performance estimate**, derived in accordance with recognised industry methodology, and is consistent with the performance expected of modern insulated sectional garage doors of comparable construction.

Where applicable, this level of performance is **broadly consistent with the thermal standards set out in Approved Document L for controlled elements**, noting that garage doors are not always classified as primary thermal elements unless forming part of the conditioned envelope of the dwelling.

This assessment is provided to demonstrate reasonable compliance with the intent of Part L and reflects the installed construction rather than laboratory-tested performance.

“As the garage does not form part of the conditioned thermal envelope of the dwelling, the door is not subject to the same limiting U-value requirements as habitable elements under Approved Document L.”