

## FORZA DOORS

### THERMAL TRANSMITTANCE (U-VALUE W/M2K)

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Thermal Transmittance, the measure of how much heat will pass through one square metre of a structure when air temperatures on either side differ by one degree, is generally applied to door sets. U-values are expressed in units of Watts per square meter per degree of temperature difference (W/m2K).

**The thermal transmittance performance of a door set will vary according to the door set design therefore the following details need to be considered:**

Door set size and configuration

Frame component materials and dimensions

Operating gap dimensions

Type, size and position of seals Door face material Glass

Glass type and glazed area

**BS EN 10077-2-2003 calculations have been determined for Forza 44mm and 54mm flush leaf-based door sets using the following criteria:**

Door leaf dimension: 2040 x 926mm incorporating Forza standard hardwood lippings

Facing material: 0.5 veneer Door frame: Forza type DFT104 2P

Door frame operating gaps: head/jamb & threshold 3mm

Acoustic and fire seals: product specific

BS EN 10077-2-2003 Calculated U-value

- Forza 44mm leaf: configuration type SG44.32A30S 2.1W/m2K
- Forza 54mm leaf: configuration type SG54.35A60S 1.8W/m2K

**The performance of glass within door set vision panels and glazed screens will vary depending on the type and thickness of glass used. For guidance, typical (U-Value) performance for glazed elements are as follows:**

Single Pane: 5.4W/m2K

Double Glazed: 2.6W/m2K