

NORTHERN GLAZING SYSTEMS LTD

EPC-STYLE THERMAL PERFORMANCE & U-VALUE SCHEDULE

COMMERCIAL ALUMINIUM DOOR / SIDE SCREEN & DOUBLE-GLAZED UNIT SCHEDULE

Item 1 - AluK Commercial Entrance Door & Glazed Side Screen

Overall size	1550 mm wide × 2170 mm high
Frame system	AluK thermally broken commercial aluminium profile
Configuration	Commercial entrance door with glazed side screen
Glazing	28 mm double-glazed toughened safety glass
Recommended glass build-up	6 mm toughened / 16 mm argon cavity / 6 mm toughened Low-E
Centre-pane glass U-value (U_g)	Approx. 1.10 W/m²K
Whole doorset / side-screen U-value (U_{d/Uw})	U _{d/Uw} target: 1.60 W/m²K or better

Item 2 - 24 mm Double-Glazed Units

Nominal unit size	Approx. 550 mm wide × 1020 mm high
Nominal IGU thickness	24 mm
Typical build-up	4 mm glass / 16 mm cavity / 4 mm glass
Spacer	Silver / aluminium spacer
Low-E + argon centre-pane U_g	Approx. 1.10 W/m²K
Basic Low-E / K-glass U_g	Approx. 1.4–1.5 W/m²K
Clear DGU without Low-E U_g	Approx. 2.7 W/m²K
Indicative complete framed-window U_w	Approx. 1.4–1.8 W/m²K depending on frame; 1.6 W/m²K may be used as a design figure

Summary U-Values

Element	Design / indicative value
28 mm Low-E argon glass (U _g)	1.10 W/m²K
AluK door + side screen (U _{d/Uw})	≤ 1.60 W/m²K design target
24 mm Low-E argon DGU, silver spacer (U _g)	1.10 W/m²K
Complete framed 24 mm glazed unit (U _w)	Approx. 1.60 W/m²K design figure*

Important qualification: The values above are specification/design values, not independently tested project-specific results. U_g is the centre-pane glazing value; U_w/U_d is the thermal transmittance of the complete framed product. The silver/aluminium spacer increases edge-of-glass heat transfer compared with a warm-edge spacer, so the exact complete-product U_w depends on frame material, frame dimensions, glazing area, spacer ψ -value and actual glass specification. Final compliance should be supported by the relevant manufacturer/supplier U-value calculation or Declaration of Performance.

Document status: EPC-style product thermal performance / U-value schedule. This is not a statutory building Energy Performance Certificate.