



Optio

GT55 TB Commercial Entrance

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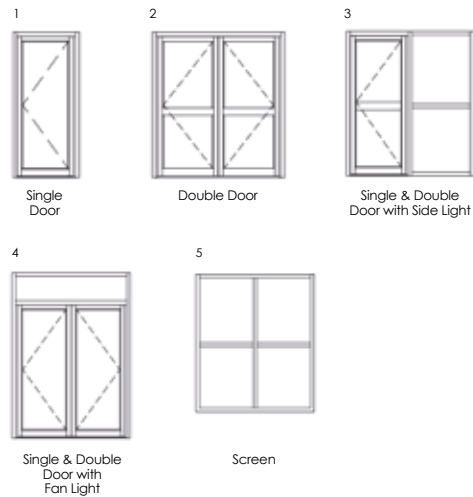
The Optio GT55 thermally broken aluminium commercial door system provides the most comprehensive PAS24 security for single, double door and fixed panel.



DESIGN FEATURES AND OPTIONS

- ▶ The most comprehensive PAS24 and SBD certified system on the market today – panic, mechanical and electro mechanical locking
- ▶ Accepts 24mm – 31mm double or triple glazing
- ▶ Max door leaf (double) 2000mm x 2180mm
- ▶ Max panel weight 110kg
- ▶ Double acting central pivot door, open in and out options

SBD CONFIGURATIONS



Options	GT55 TB	GT55 TB Screening	GT55 NI	GT55 NI Screening
Double acting central pivot door	✓	-	✓	-
Finishes				
Single colour	✓	✓	✓	✓
Dual colour	✓	✓	-	-
Textured	✓	✓	✓	✓
Anodised	✓	✓	✓	✓

SPECIFICATIONS

Performance and accreditation	GT55 TB		GT55 TB Screening	GT55 NI		GT55 NI Screening
	Single	Double		Single	Double	
Air permeability (Pa) ¹	Class 0 (0 Pa)	Class 0 (0 Pa)	Class 4 (600 Pa)	Class 0 (0 Pa)	Class 0 (0 Pa)	Class 4 (600 Pa)
Water tightness (Pa) ¹	Class 1A (0 Pa)	Class 1A (0 Pa)	Class E1200 (1200 Pa)	Class 1A (0 Pa)	Class 1A (0 Pa)	Class 8A (450 Pa)
Wind resistance (Pa) ¹	Class 0 (0 Pa)	Class 0 (0 Pa)	Class B4 (1600 Pa)	Class 0 (0 Pa)	Class 0 (0 Pa)	Class 5 (2000 Pa)
Security	Q-mark	Q-mark	Q-mark	Q-mark	Q-mark	-
U value (double glazing) (Ug: 1.0 W/m ² k) ^{2,3,4}	1.9 W/m ² K	1.82 W/m ² K	1.33 W/m ² K	3.6 W/m ² K	3.05 W/m ² K	2.03 W/m ² K
U value (triple glazing) (Ug: 0.7 W/m ² k) ^{2,3,4}	1.72 W/m ² K	1.62 W/m ² K	1.07 W/m ² K	3.42 W/m ² K	2.86 W/m ² K	1.77 W/m ² K
3rd party certification	Q-mark	Q-mark	Q-mark	Q-mark	Q-mark	-
Durability EN 1191 category (cycles)	50,000	50,000	-	50,000	50,000	-
System depth						
Units (mm)	110 mm	110 mm	110 mm	110 mm	110 mm	110 mm
Design features						
Thermally broken	✓	✓	✓	-	-	-
Low threshold	✓	✓	-	✓	✓	-
Anti-finger trap	✓	✓	-	✓	✓	-
Sightlines	145 mm	176 mm	55 mm	144 mm	176 mm	55 mm
Feature design - angular contours	✓	✓	✓	✓	✓	✓
Mid-rail and lay bar	✓	✓	✓	✓	✓	✓
Panel door	✓	✓	-	✓	✓	-
Hardware						
Multi point locking	✓	✓	-	-	-	-
Single point locking	✓	✓	-	✓	✓	-
Concealed hinges	✓	✓	-	✓	✓	-
Barrel hinges	-	-	-	✓	✓	-
Electro mechanical locking	✓	✓	-	✓	✓	-
Panic exit devices (EN 1125)	✓	✓	-	✓	✓	-
Maximum sizes & weights						
Maximum door leaf size (mm)	1000 x 2180	2000 x 2180	2000 x 2180	1000 x 2180	2000 x 2180	2000 x 2180
Maximum door leaf weight ^{5,6}	110 Kg	110 Kg	-	80 Kg	80 Kg	-
Maximum glazing thickness (single glazing) (mm)	npd	npd	6 - 12	6 - 12	6 - 12	6 - 12
Maximum glazing thickness (double glazing) (mm)	24 - 40	24 - 40	24 - 28	24 - 28	24 - 28	24 - 28
Applications						
New build	✓	✓	✓	✓	✓	✓
Refurbishment	✓	✓	✓	✓	✓	✓
Heavy commercial	✓	✓	✓	✓	✓	✓

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U-values based on CEN size door (1000mm x 2180mm) using 1.0 W/m²K double glazing with warm edge Swisspacer V bar. All weather test data taken from BS EN 6375-1 (Part of PAS 23) based upon the highest performing door configuration. Sound insulation values are Rw reduction values and are based on tests using acoustic glazing. Please visit aluk.co.uk to download all BIM components and CAD files.

¹ AWW wind results for GT55NI Screening based upon internal test results only. ² U-value calculation in accordance EN 10077-2, single door size 1000mm x 2180mm. ³ U-value calculation in accordance EN 10077-2, double door size 2000mm x 2180mm. ⁴ U-value calculation in accordance EN 10077-2, screen size 2000mm x 2180mm. ⁵ GT55 TB max weight based upon the Dorma RTS87 door closer. ⁶ GT55 NI max weight based upon the Adams Rile ARCS1N door closer.