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Experts in Aluminium

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Entrance Doors & Ground Floor Treatment Systems

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ENTRANCE DOORS & GROUND FLOOR TREATMENT PRODUCT SELECTOR

AluK design, engineer and manufacture a range of aluminium entrance doors and ground floor treatment systems to meet a variety of applications such as multi residential, retail, education and healthcare. Manufactured to the highest standards our systems are inherently strong, lightweight and sustainable.

KEY: - No ● Yes

	58BD				GT55 TB		GT55 TB SCREENING	GT55 NI		GT55 NI SCREENING
	SINGLE OPEN IN	SINGLE OPEN OUT	DOUBLE OPEN IN	DOUBLE OPEN OUT	SINGLE	DOUBLE		SINGLE	DOUBLE	
PERFORMANCE AND ACCREDITATIONS										
Air permeability (Pa)	Class 4 (600 Pa)	Class 4 (600 Pa)	Class 2 (300 Pa)	Class 2 (300 Pa)	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)	Class 3A (100 Pa)	Class 7A (300 Pa)	Class 7A (300 Pa)	Class 9A (600 Pa)	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)	Class A3 (1200 Pa)	Class AE2400 (2400 Pa)	Class A2400 (2400 Pa)	Class A2400 (2400 Pa)	Class 0 (0 Pa)	Class 0 (0 Pa)	Class B4 (1600 Pa)	Class 0 (0 Pa)	Class 0 (0 Pa)	Class 5 (2000 Pa)
Building regulations part L compliant	●	●	●	●	-	-	-	-	-	-
Building regulations part M compliant	●	●	●	●	-	-	-	-	-	-
Security to PAS 24/SBD	●	●	●	●	●	●	●	●	●	-
U-value (double glazing) (Ug: 1.0 W/m²K)	1.7 W/m²K	1.7 W/m²K	1.7 W/m²K	1.7 W/m²K	1.9 W/m²K	1.82 W/m²K	1.33 W/m²K	3.6 W/m²K	3.05 W/m²K	2.03 W/m²K
U-value (triple glazing) (Ug: 0.7 W/m²K)	1.4 W/m²K	1.4 W/m²K	1.4 W/m²K	1.4 W/m²K	1.62 W/m²K	1.07 W/m²K	1.07 W/m²K	3.42 W/m²K	2.86 W/m²K	1.77 W/m²K
Q mark (3rd party certification)	●	●	●	●	●	●	●	●	●	-
Durability EN 1191 category (cycles)	50,000	50,000	50,000	50,000	50,000 (open in) 50,000 (open out)	50,000 (open in) 50,000 (open out)	-	50,000 (open in) 50,000 (open out)	50,000 (open in) 50,000 (open out)	-
OPTIONS										
Double acting central pivot door	-	-	-	-	●	●	-	●	●	-
SYSTEM DEPTH										
Units (mm)	58 / 70 mm	58 / 70 mm	58 / 70 mm	58 / 70 mm	110 mm	110 mm	110 mm	110 mm	110 mm	110 mm
DESIGN FEATURES										
Thermally broken	●	●	●	●	●	●	●	-	-	-
Low threshold	●	●	●	●	●	●	-	●	●	-
Anti-finger trap	-	-	-	-	●	●	-	●	●	-
Sightlines	119 mm	119 mm	208 mm	208 mm	145 mm	176 mm	55 mm	144 mm	176 mm	55 mm
Feature design - rounded contours	●	●	●	●	-	-	-	-	-	-
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)	-	-	-	-	●	●	-	●	●	-
FINISHES										
Single colour	●	●	●	●	●	●	●	●	●	●
Dual colour	●	●	●	●	●	●	●	-	-	-
Textured	●	●	●	●	●	●	●	●	●	●
Anodised	●	●	●	●	●	●	●	●	●	●
MAXIMUM SIZES & WEIGHTS										
Maximum door leaf size (mm)	1020 x 2160	1020 x 2160	1020 x 2160	1020 x 2160	1000 x 2180	2000 x 2180	2000 x 2180	1000 x 2180	2000 x 2180	2000 x 2180
Maximum door leaf weight	90 Kg	90 Kg	90 Kg	90 Kg	110 Kg	110 Kg	npd	80 Kg	80 Kg	npd
Maximum glazing thickness (single glazing) (mm)	-	-	-	-	-	-	6 - 12	6 - 12	6 - 12	6 - 12
Maximum glazing thickness (double glazing) (mm)	24 - 40	24 - 40	24 - 40	24 - 40	24 - 40	24 - 40	24 - 28	24 - 28	24 - 28	24 - 28
APPLICATIONS										
New build	●	●	●	●	●	●	●	●	●	●
Refurbishment	●	●	●	●	●	●	●	●	●	●
Heavy commercial	-	-	-	-	●	●	●	●	●	●

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58BD DOOR SYSTEM



Our most versatile door option for both residential and commercial applications. The 58BD door is available in a range of configurations including a fully rebated or low threshold options and colours including polyester powder coating and anodised finishes. Weathering is achieved by use of single or dual extruded gaskets.

▶ SIZES & GLAZING

	MAXIMUM GLAZING WEIGHT	MAXIMUM GLAZING SIZE
58BD Single door (open in and out)	90 Kg	1020 mm x 2160 mm
58BD Double door (open in and out)	90 Kg	1020 mm x 2160 mm

▶ PERFORMANCE & SECURITY

	AIR INFILTRATION BS EN12207	WATER TIGHTNESS BS EN12207	WIND RESISTANCE BS EN12210
58BD Single door (open in)	Class 4 (600 Pa)	Class 3A (100 Pa)	Class A3 (1200 Pa)
58BD Single door (open out)	Class 4 (600 Pa)	Class 7A (300 Pa)	Class AE2400 (2400 Pa)
58BD Double door (open in)	Class 2 (300 Pa)	Class 7A (300 Pa)	Class A2400 (2400 Pa)
58BD Double door (open out)	Class 2 (300 Pa)	Class 9A (600 Pa)	Class A2400 (2400 Pa)

▶ 58BD DOOR SYSTEMS PRODUCT SELECTOR

KEY: - No ● Yes

	58BD			
	SINGLE OPEN IN	SINGLE OPEN OUT	DOUBLE OPEN IN	DOUBLE OPEN OUT
PERFORMANCE AND ACCREDITATIONS				
Air permeability (Pa)	Class 4 (600 Pa)	Class 4 (600 Pa)	Class 2 (300 Pa)	Class 2 (300 Pa)
Water tightness (Pa)	Class 3A (100 Pa)	Class 7A (300 Pa)	Class 7A (300 Pa)	Class 9A (600 Pa)
Wind resistance (Pa)	Class A3 (1200 Pa)	Class AE2400 (2400 Pa)	Class A2400 (2400 Pa)	Class A2400 (2400 Pa)
Building regulations part L compliant	●	●	●	●
Building regulations part M compliant	●	●	●	●
Security to PAS 24	●	●	●	●
U-value (double glazing) (Ug: 1.0 W/m ² k) ¹	1.7 W/m ² K	1.7 W/m ² K	1.7 W/m ² K	1.7 W/m ² K
U-value (triple glazing) (Ug: 0.7 W/m ² k) ²	1.4 W/m ² K	1.4 W/m ² K	1.4 W/m ² K	1.4 W/m ² K
Q mark (3rd party certification)	●	●	●	●
Durability EN 1191 category (cycles)	50,000	50,000	50,000	50,000
SYSTEM DEPTH				
Units (mm)	58 / 70 mm	58 / 70 mm	58 / 70 mm	58 / 70 mm
DESIGN FEATURES				
Thermally broken	●	●	●	●
Low threshold	●	●	●	●
Sightlines	119 mm	119 mm	208 mm	208 mm
Feature design - rounded contours	●	●	●	●
Panel door	●	●	●	●
HARDWARE				
Multi point locking	●	●	●	●
Barrel hinges	●	●	●	●
FINISHES				
Single colour	●	●	●	●
Dual colour	●	●	●	●
Textured	●	●	●	●
Anodised	●	●	●	●
MAXIMUM SIZES & WEIGHTS				
Maximum door leaf size (mm)	1020 x 2160	1020 x 2160	1020 x 2160	1020 x 2160
Maximum door leaf weight	90 Kg	90 Kg	90 Kg	90 Kg
Maximum glazing thickness (mm)	24 - 40 mm	24 - 40 mm	24 - 40 mm	24 - 40 mm
APPLICATIONS				
New build	●	●	●	●
Refurbishment	●	●	●	●

¹U-value in accordance EN 10077-2, single door size 1000mm x 2180mm.
²U-value in accordance EN 10077-2, double door size 2000mm x 2180mm.

▶ THERMAL PERFORMANCE

SINGLE - OPEN OUT - REBATED DOOR	UD W/M ² K
58BD	1.5



Isotherm image of single door open but out rebated door

▶ FABRICATION

The 58BD door can either be crimped or mechanically fixed.

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.

GT55 DOOR & GROUND FLOOR TREATMENT SYSTEM



A robust heavy duty commercial door and screening system for use in high traffic applications such as offices, hospitals, schools, multi residential and retail premises. The GT55 system is available in various options either fully rebated or low threshold, thermally broken (TB) or non-insulated (NI). With a slim sightline of 55mm the GT55 screening system is available in single or dual colour, polyester powder coating and anodised finishes.

➤ SIZES & GLAZING

	MAXIMUM GLAZING WEIGHT	MAXIMUM GLAZING SIZE
GT55 TB Single door	110 Kg	1000 mm x 2180 mm
GT55 NI Single door	80 Kg	1000 mm x 2180 mm
GT55 TB Double door	110 Kg	2000 mm x 2180 mm
GT55 NI Double door	80 Kg	2000 mm x 2180 mm
GT55 TB Screening	npd	2000 mm x 2180 mm
GT55 NI Screening	npd	2000 mm x 2180 mm

➤ PERFORMANCE & SECURITY

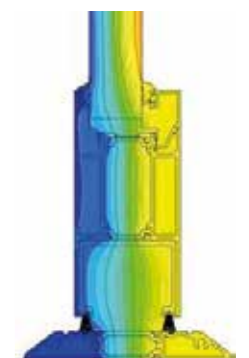
	AIR INFILTRATION BS EN12207	WATER TIGHTNESS BS EN12207	WIND RESISTANCE BS EN12210
GT55 TB	Class 0 (0 Pa)	Class 1A (0 Pa)	Class 0 (0 Pa)
GT55 NI	Class 0 (0 Pa)	Class 1A (0 Pa)	Class 0 (0 Pa)
GT55 TB Screening	Class 4 (600 Pa)	Class E1200 (1200 Pa)	Class 5 (2000 Pa)
GT55 NI Screening*	Class 4 (600 Pa)	Class 8A (450 Pa)	Class B4 (1600 Pa)

*AWW wind results for GT55NI Screening based upon internal test results only.

➤ THERMAL PERFORMANCE

SINGLE DOOR	UD W/M ² K
GT55 TB	1.7

The GT55 Screening system can accommodate 6mm – 32mm sealed units for improved thermal and acoustic performance.

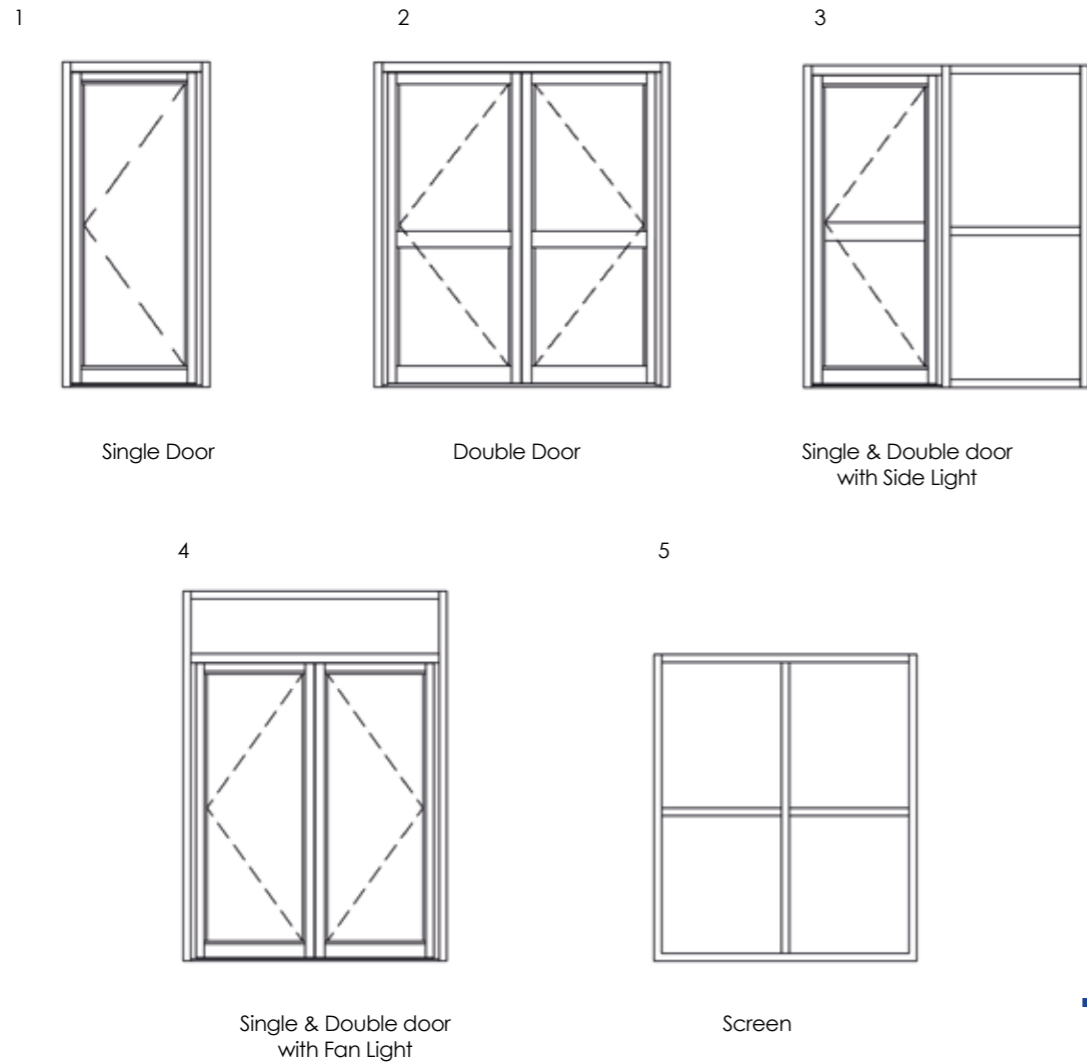


Isotherm image of single door open but out rebated door

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.

GT55 DOOR & GROUND FLOOR TREATMENT SYSTEM

SBD CONFIGURATIONS



PAS 24 SECURITY RATED LOCK

ALUK PART REF	RELEVANT CONFIGURATIONS	SINGLE DOOR				DOUBLE DOOR			
		MIN (W)	MIN (H)	MAX (W)	MAX (H)	MIN (W)	MIN (H)	MAX (W)	MAX (H)
XA680 - Trimec V Lock	1,2,3,4,5	500	-	1200	2400	500	-	1200	2400
XA835-838 - Dorma 9800 Panic	1,2,3,4,5	500	-	1200	2400	500	-	1200	2400
XA844-845 - Dorma 9800 Panic ES	1,2,3,4,5	500	-	1200	2400	500	-	1200	2400
XA885/886 - Sentinel M Panic	1,3,5	500	1882*	1200	2400	Not available for Double Door			
XA887 - Sentinel M Multi Point Lock	1,2,3,4,5	500	1882*	1000	2400	500	1882*	1000	2400

NB: *Based on 1050mm Spindle height. Lock can be cropped (for shorter heights) if necessary. Contact AluK Technical to discuss.

GT55 SYSTEMS SELECTOR

KEY: - No ● Yes

	GT55 TB		GT55 TB SCREENING	GT55 NI		GT55 NI SCREENING
	SINGLE	DOUBLE		SINGLE	DOUBLE	
PERFORMANCE AND ACCREDITATIONS						
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 to PAS 24/SBD	●	●	●	●	●	-
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
Q mark (3rd party certification)	●	●	●	●	●	-
Durability EN 1191 category (cycles)	50,000 (open in) 50,000 (open out)	50,000 (open in) 50,000 (open out)	-	50,000 (open in) 50,000 (open out)	50,000 (open in) 50,000 (open out)	-
OPTIONS						
Double acting central pivot door	●	●	-	●	●	-
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)	●	●	-	●	●	-
FINISHES						
Single colour	●	●	●	●	●	●
Dual colour	●	●	●	-	-	-
Textured	●	●	●	●	●	●
Anodised	●	●	●	●	●	●
MAXIMUM SIZES AND 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 mm	24 - 40 mm	24 - 28 mm	24 - 28 mm	24 - 28 mm	24 - 28 mm
APPLICATIONS						
New build	●	●	●	●	●	●
Refurbishment	●	●	●	●	●	●
Heavy commercial	●	●	●	●	●	●

¹AWW wind results for GT55NI Screening based upon internal test results only.

²U-value calculation in accordance EN 10077-2, single door size 1000mm x 2180mm.

³U-value calculation in accordance EN 10077-2, double door size 2000mm x 2180mm

⁴U-value calculation in accordance EN 10077-2, screen size 2000mm x 2180mm.

⁵GT55 TB max weight based upon the Dorma RTS87 door closer.

⁶GT55 NI max weight based upon the Adams Rite ARC51N door closer.



SERVICE & SUPPORT



► PROJECT CONSULTANTS

Our Project Consultants are able to help with design, system selection, construction details and project specifications. Highly experienced, they are dedicated in offering support and guidance through sector-specific requirements.

► ALUK ACADEMY

From CPDs and toolbox talks to hands-on training at our Academy Centre, we have a wide range of training options available to customers.

► TECHNICAL SUPPORT

AluK offers our specification clients a range of dedicated support services to help them with compliance.

► BIM

AluK is one of the first UK manufacturers to provide a comprehensive selection of BIM objects. BIM components for our window, door and curtain walling systems are currently available from the National BIM Library and the BIMStore in Revit and IFC formats.

► TECHNICAL SERVICES

Our dedicated technical services team provide immediate support to all technical queries from installation, product and specification guidance to acoustic and U-value calculations.

