

AA®720 Series Door Systems

Introduction

The Kawneer AA®720 Door has been developed to meet the latest European requirements for thermal performance and has been future proofed against expected changes in thermal regulation up to 2019.

To enable complete flexibility of design, performance and cost, the AA®720 Door is available in two levels of thermal performance, the AA®720 and the AA®720HI.

The 72mm profiles incorporate the very latest thermal technology including; extruded polyamide thermal breaks, insulated centre seals and foam isolators.

As well as being fully integrated, the AA®720 Door can suite with Kawneer's curtain walling and framing products and is suitable for installation in low or high rise buildings for commercial and domestic new build or refurbishment projects.

Construction

Crimped or pinned with mechanical corner cleats. Corner braces are also used.

Weathering is achieved by the use of single and dual durometer, EPDM gaskets.

Pressure equalised system.

Configurations

As well as flexibility in performance, the AA®720 offers versatility in design with the range encompassing a wide variety of integrated window and door configurations.

For information on Kawneer's AA®720 Series Window Systems please refer to our Window Systems Brochure.

Variants to the AA®720 Door range are:

- Softline/Design variants with rounded contours
- Open in and open out variants
- Choice of thresholds
- Extensive panic hardware offer
- Large leaf size and weight capabilities
- Finger guard option

The AA®720 Door also offers extensive hardware configurations, including new concealed hinges and barrel hinges as well as extensive handle and locking options, to suite with other products in the Kawneer range.

Glazing

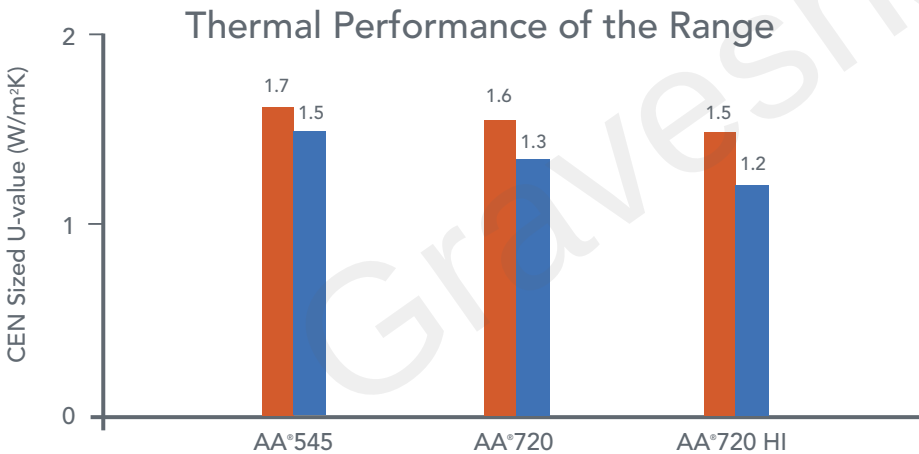
Glazing and panels up to 56mm thickness can be accommodated enabling the use of triple glazing for when there is a requirement for the very highest thermal and acoustic performance.

Security*

The AA®720 Door has been independently tested to PAS 24 for the enhanced security performance of single and double leaf external doors.

** Does not refer to standard hardware, security hardware required.*

Secured by Design



U-values are based on a 1000mm x 2000mm CEN sized single door

- Incorporating 1.0 W/m²K double glazing with warm edge Swisspacer V bar
- Incorporating 0.6 W/m²K triple glazing with warm edge Swisspacer V bar

Product Selector

Performance	AA®720	AA®720 HI	AA®720 FR
U-value (Double Glazing)*	1.6 W/m²K	1.5 W/m²K	1.6 W/m²K
U-value (Triple Glazing)**	1.3 W/m²K	1.2 W/m²K	1.3 W/m²K
Frame Depth	72mm	72mm	72mm
Sound Insulation (BS EN 4109)	38 dB	38 dB	38 dB
Air Infiltration (BS EN 12207: 2000)	Class 2	Class 2	Class 2
Watertightness (BS EN 12208: 2000)	Class 4A	Class 4A	Class 4A
Wind Resistance (BS EN 12210: 2000)	Class C2	Class C2	Class C2
Security (ENV 1627)	WK2 & 3	WK2 & 3	WK2 & 3
Security (PAS 24)	•	•	
Smoke Protection (DIN EN 1634-3)	-	-	•
Fire Protection (DIN EN 1634-1)	-	-	EI ₂ 30
Design Variants			
Standard	•	•	•
Softline/Design – Rounded Contours	•	•	
Renovation – Angular Contours	•	•	
Panel Door	•	•	
Configurations			
Inward Opening			
Single	•	•	•
Double	•	•	•
Outward Opening			
Single	•	•	•
Double	•	•	•
Design Features			
Maximum Door Leaf Size	1400mm x 3000mm		
Maximum Door Leaf Weight	250kg	250kg	250kg
Dual Colour Option	•	•	•
Maximum Glazing Thickness	50mm	50mm	50mm
Multi-Point Locking	•	•	•
Concealed Hinges	•	•	
Barrel Hinges	•	•	•
Thermally Broken Threshold	•	•	•
Fire Escape (DIN EN 179)	•	•	•
Anti-Panic (DIN EN 1125)	•	•	•
Durable Function (EN 1191)	Heavy Duty	Heavy Duty	Heavy Duty

** U-values based on BR443 size door (1000mm x 2000mm) using 1.1 W/m²K double glazing with warm edge Swisspacer V bar.*

*** U-values based on BR443 size door (1000mm x 2000mm) using 0.7 W/m²K triple glazing with warm edge Swisspacer V bar.*

Fire protection tests carried out using specialist glazing. Tested to DIN EN 1634-1

Sound insulation values are Rw reduction values and are based on tests using acoustic glazing. Further details are available within the Product Manual

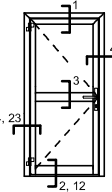
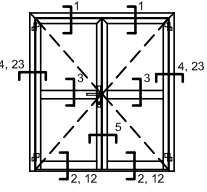
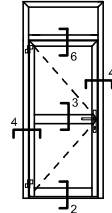
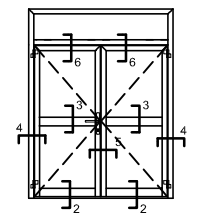
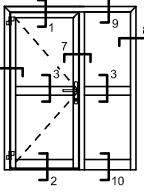
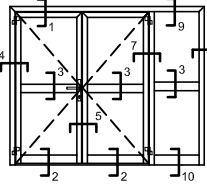
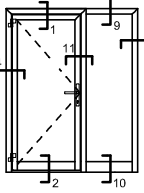
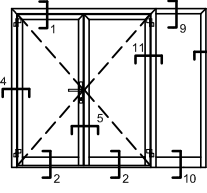
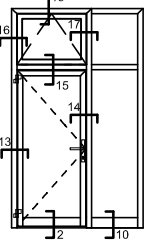
Independently weather and operational performance tested to BS EN 1026, 1027 & 12211

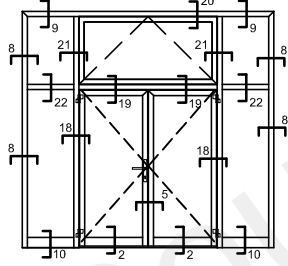
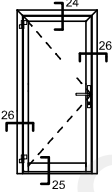
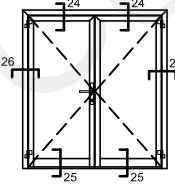
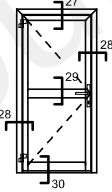
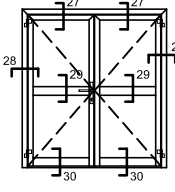


AA[®]720 Door Systems

Typical Elevations

Full details can be downloaded from our website www.kawneer.co.uk

Elevation	Title		Website CAD ref. no.	
Single Leaf Door	Double Leaf Door		Open-in	Open-out
		1 Head 2 Threshold 3 Midrail 4 Jamb 5 Meeting Stile 12 Perimeter Door Leaf - Threshold 23 Finger Guard Hinge Jamb	H51-12, H51-15, H51-16 H53-2, H53-6, H53-7 H51-14 H51-12, H51-15, H51-16 H51-22, H51-32 H53-4 H55-14, H55-15	H51-11, H51-13 H53-1, H53-5, H53-7 H51-14 H51-11, H51-13 H51-22, H51-23 H53-3 H55-12, H55-13
		2 Threshold 3 Midrail 4 Jamb 5 Meeting Stile 6 Door Head/Fanlight Transom	H53-2, H53-6, H53-7 H51-14 H51-12, H51-15, H51-16 H51-22, H51-32 H51-53	H53-1, H53-5, H53-7 H51-14 H51-11, H51-13 H51-22, H51-23 H51-52
		1 Door Head 2 Threshold 3 Midrail 4 Jamb 5 Meeting Stile 7 Door Stile/Side Light Frame Section 8 Side Light Frame Section 9 Side Light Frame Head Section 10 Side Light Threshold	H51-15, H51-16 H53-2, H53-6, H53-7 H51-14 H51-12, H51-15, H51-16 H51-22, H51-32 H51-18, H51-19 H51-20 H51-20, H51-21 H53-8, H53-9	H51-13 H53-1, H53-5 H51-14 H51-11, H51-13 H51-22, H51-23 H51-17 H51-20 H51-20, H51-21 H53-8, H53-9
		1 Door Head 2 Threshold 4 Jamb 5 Meeting Stile 8 Side Light Frame Section 9 Side Light Frame Head Section 10 Side Light Threshold 11 Door Stile/Side Light Frame Section	H51-12 H53-2, H53-6, H53-7 H51-12 H51-22, H51-32 H51-20 H51-20 H53-8, H53-9 H51-53	H51-11 H53-1, H53-5, H53-7 H51-11 H51-22, H51-23 H51-20 H51-20 H53-8, H53-9 H51-52
		2 Threshold 10 Side Light Threshold 13 Special Door Frame Jamb 14 Door Stile/Side Light Special Muntin 15 Door Stile/Fanlight Special Muntin 16 Fanlight Frame Head/Jamb 17 Fanlight/Special Muntin		H53-1, H53-5, H53-7 H53-8, H53-9 H51-45 H51-46 H51-47 H51-48 H51-49

Elevation	Title		Website CAD ref. no.	
Single Leaf Door	Double Leaf Door		Open-in	Open-out
		2 Threshold 5 Meeting Stile 8 Side Light Frame Section 9 Side Light Frame Head Section 10 Side Light Threshold 18 Door Stile/Side Light Muntin 19 Door Head/Fanlight Muntin 20 Fanlight Head 21 Fanlight Muntin/Vent 22 Sidelight Muntin	H53-2, H53-6, H53-7 H51-22, H51-32 H51-20 H51-20 H53-8, H53-9 H51-26, H51-34 H51-27, H51-35 H51-28 H51-29 H51-30	H53-1, H53-5, H53-7 H51-22, H51-23 H51-20 H51-20 H53-8, H53-9 H51-24 H51-25 H51-28 H51-29 H51-30
		Overlapping Infill Panel 24 Head 25 Threshold 26 Jamb	H55-23 H55-24, H55-25, H55-26 H55-23	
		Designer Door 27 Head 28 Jamb 29 Midrail 30 Threshold		H61-11, H61-12 H61-11, H61-12 H61-16 H63-1, H63-2, H63-5

Kingston Riverside, London
Architect: Sprunt
Photo: Positive Image Photography

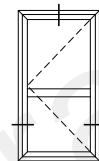
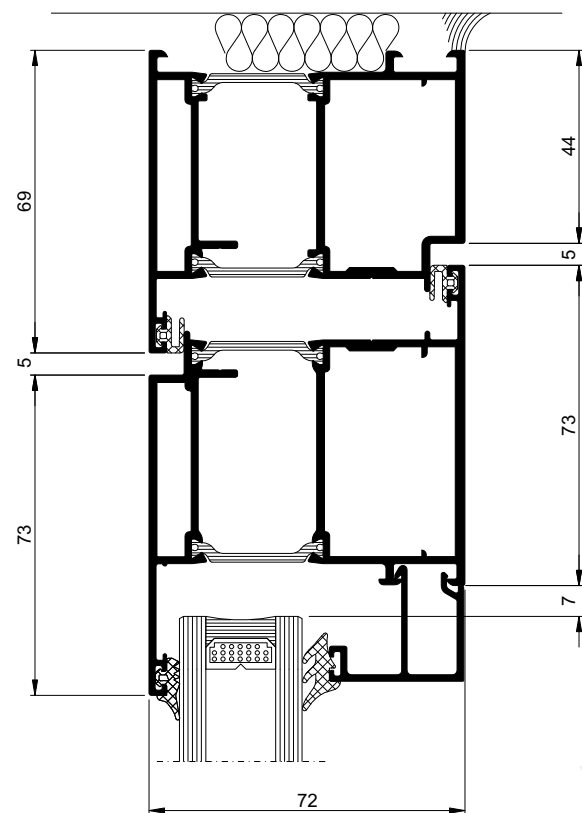


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Inward Opening

Head Detail



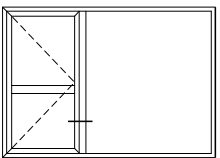
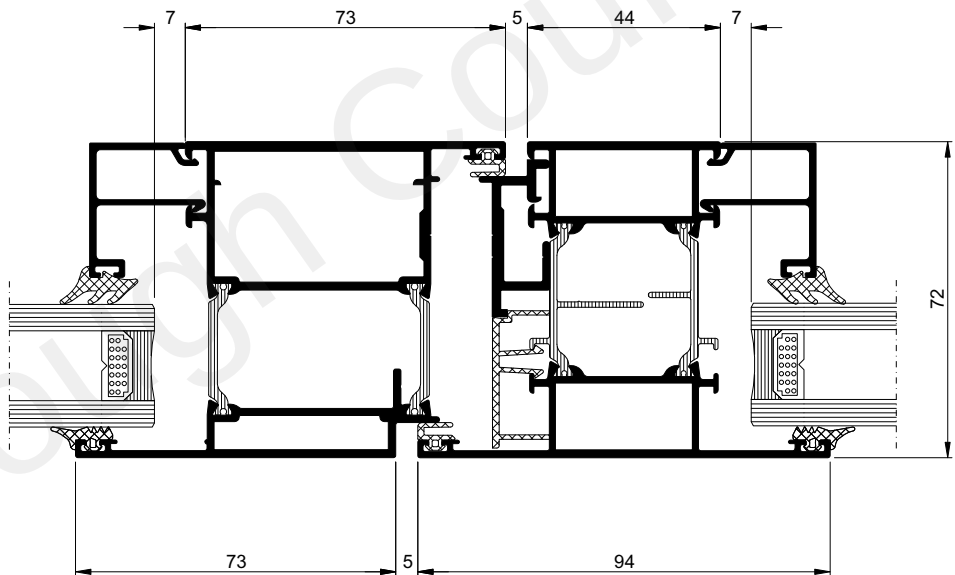
H51-11
Viewed Externally

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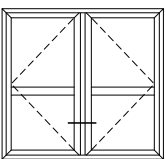
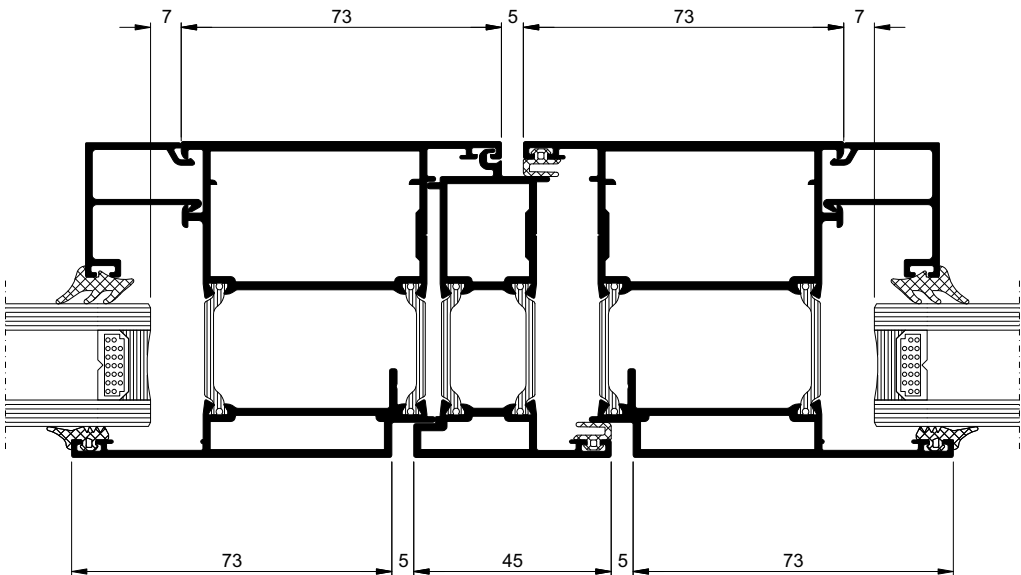
Inward Opening

Standard Door Side Light



H51-17
Viewed Externally

Standard Door Meeting Stile



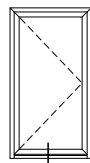
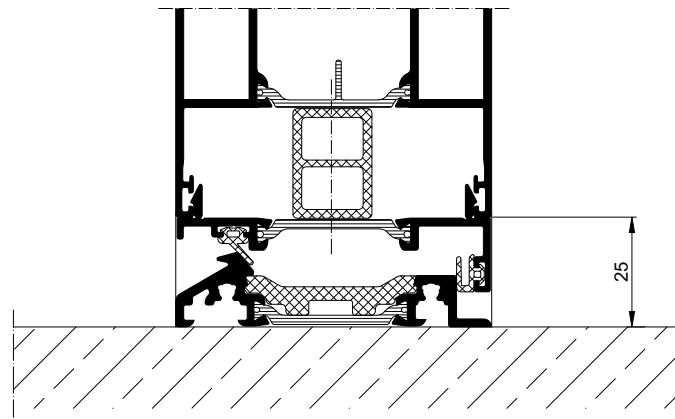
H51-23
Viewed Externally

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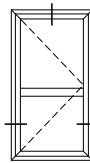
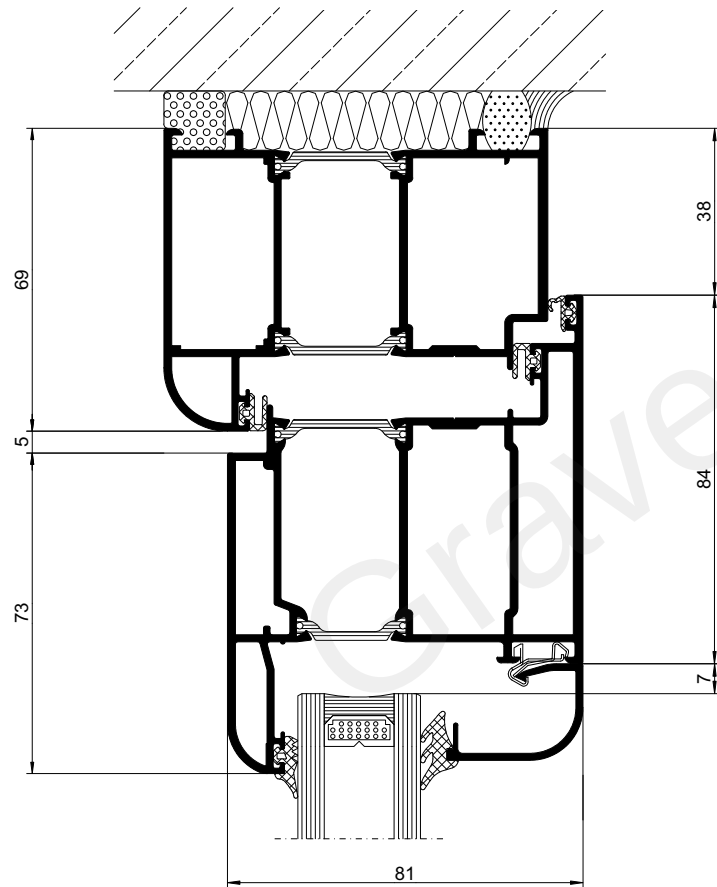
Inward Opening

Standard Door Threshold



H53-01
Viewed Externally

Design Door Head Detail



H61-11
Viewed Externally

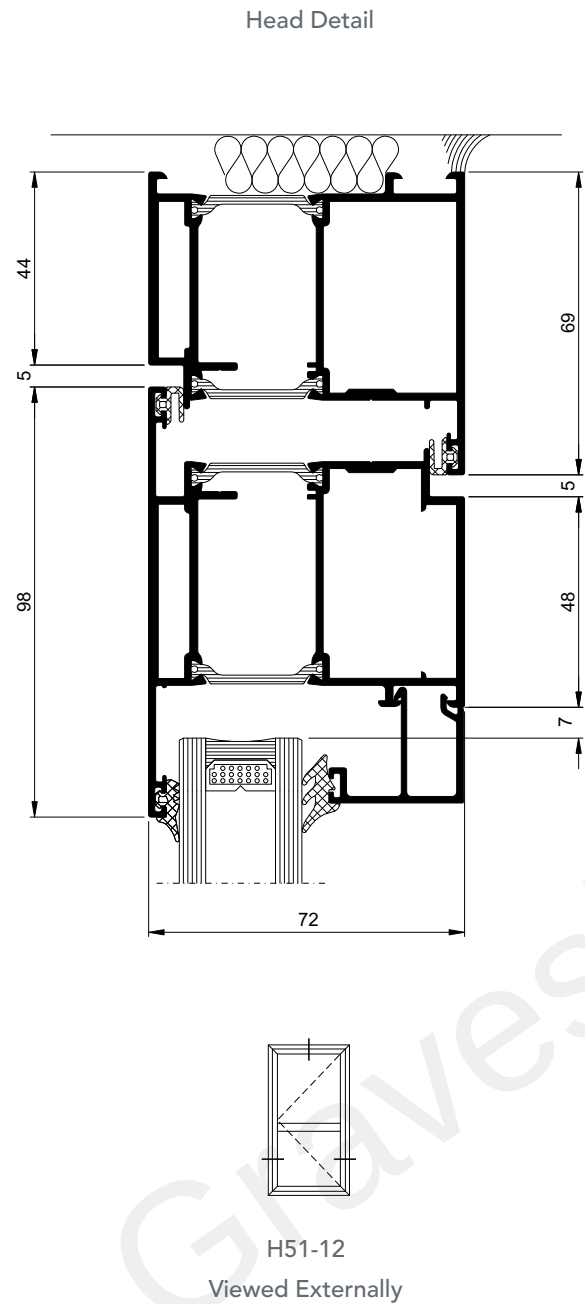


Kingston Riverside, London
Architect: Sprunt
Photo: Positive Image Photography

AA®720 Door Systems

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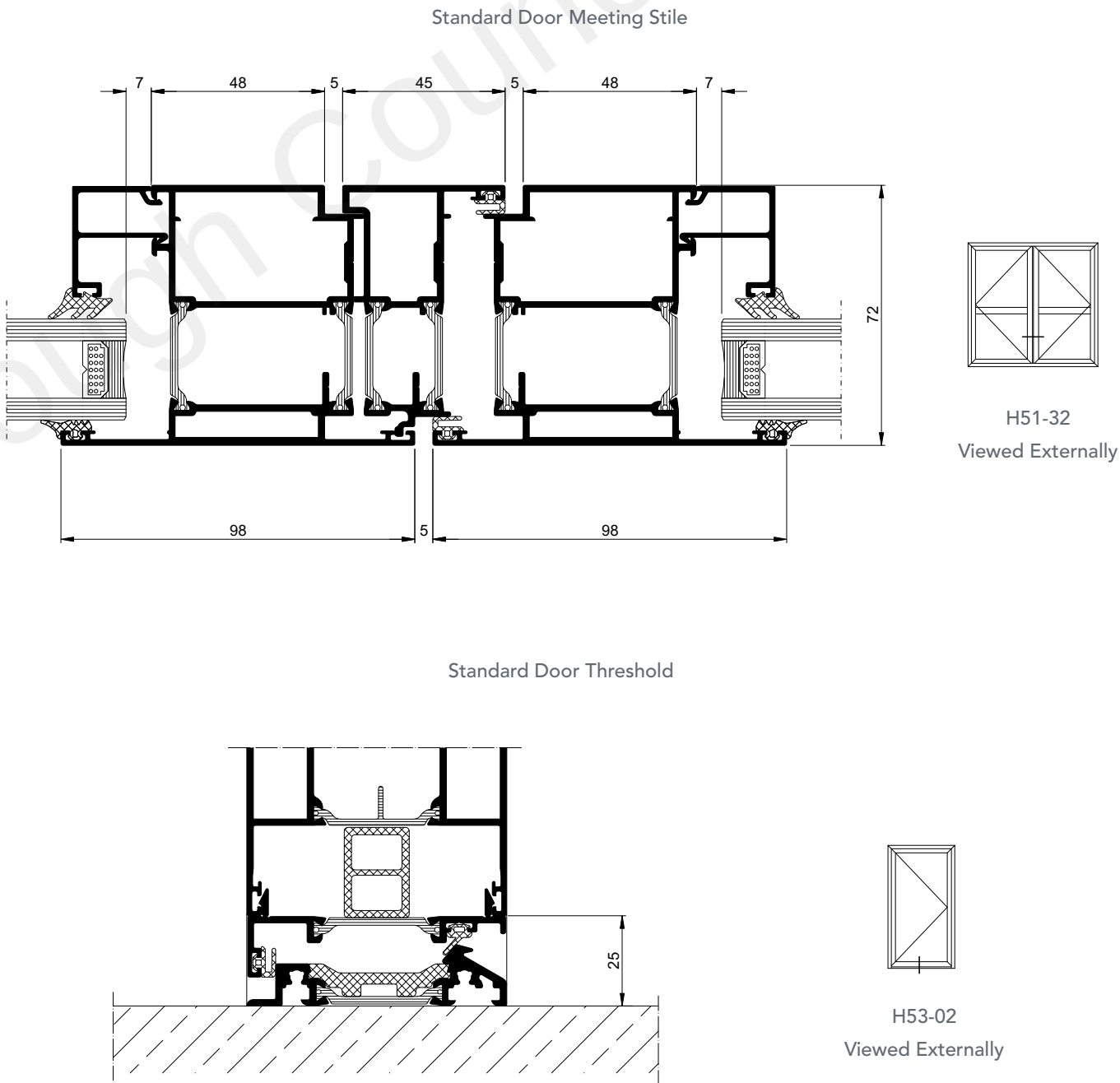
Outward Opening



AA®720 Door Systems

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Outward Opening

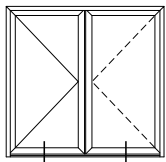
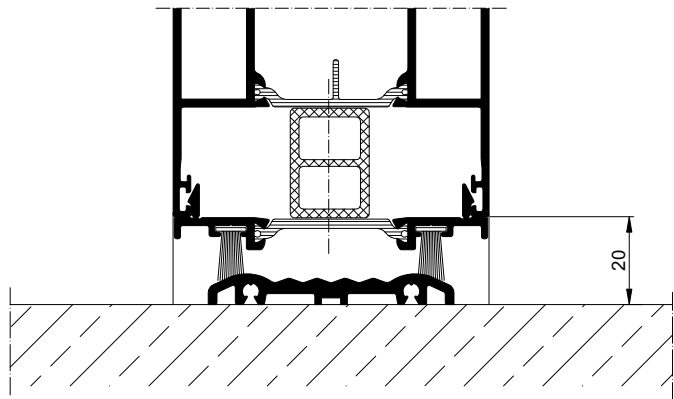


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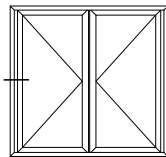
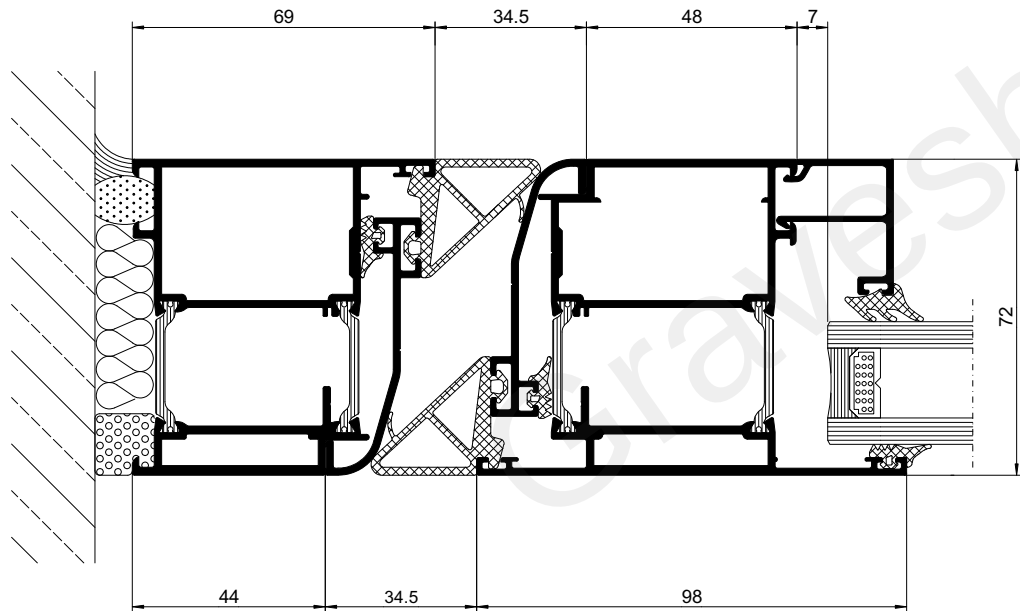
Outward Opening

Standard Door Low Threshold



H53-07
Viewed Externally

Finger Guard Door Hinge Jamb



H55-14
Viewed Externally



Portobello Square, London
Architect: PRP Architects

