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Other brochures available on request from Kawneer are:

- Architectural Aluminium Systems Finishes
- Framing Systems
- Curtain Wall Systems
- Unitised Curtain Wall Systems
- AA®130 Brise Soleil System Solar Shading for Reduced Solar Heat Gain
- Window Systems
- Door and Window Sliding Systems
- Residential Aluminium Glazing Systems
- Specialist Horizontal Sliding Window Solutions for your Healthcare Project
- Fire Resistant Systems
- The Architects Guide to Aluminium in Building
- Sustainability
- Maintenance and Cleaning









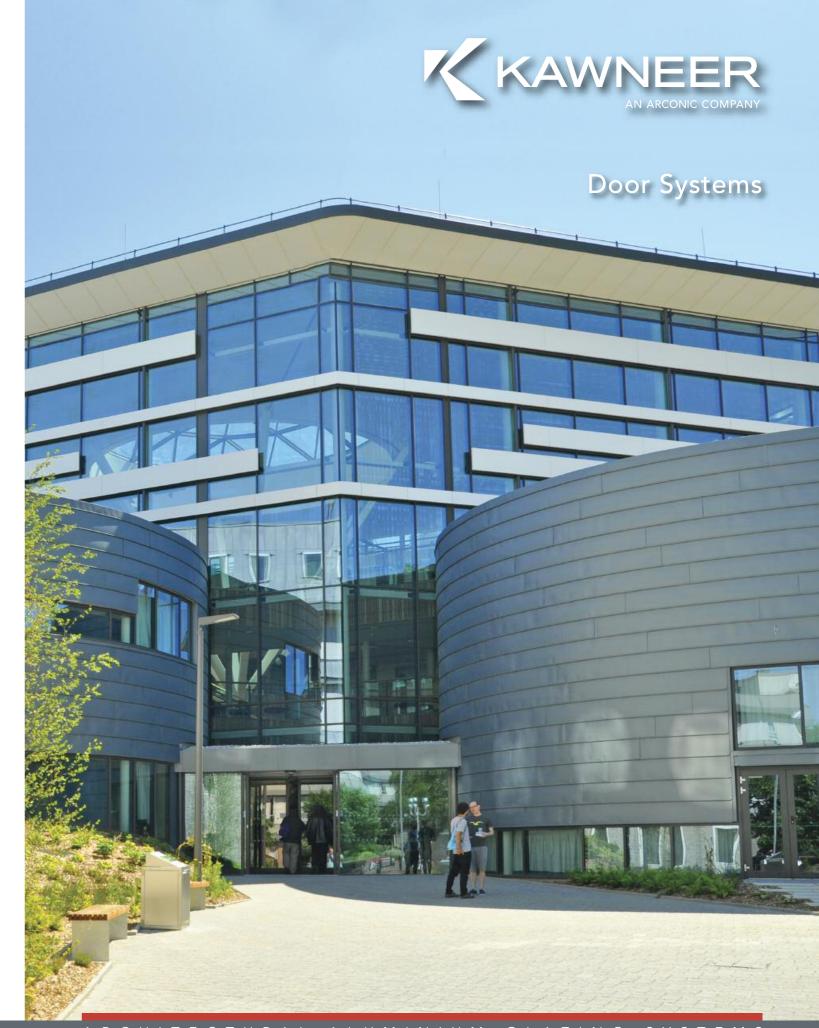


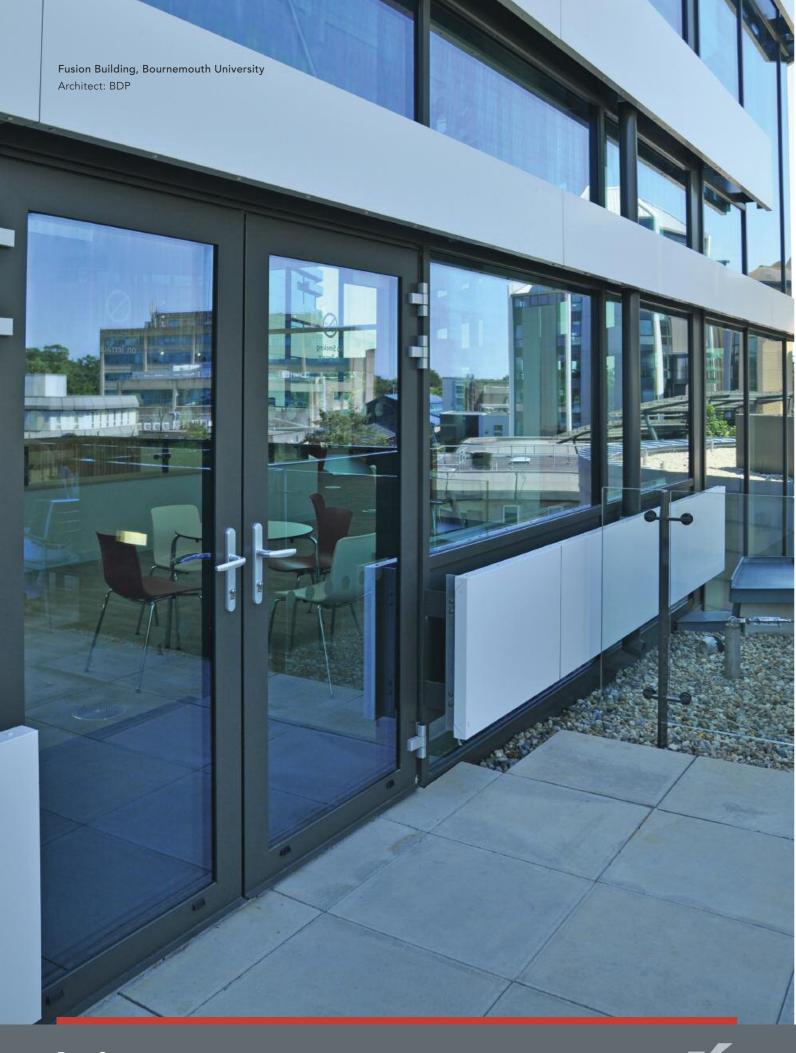






Kawneer's continuous development and engineering programmes may bring about product changes. Kawneer reserves the right to introduce without notice such changes which will not detract from the product's performance © KAWNEER UK LTD





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Door Systems Product Selector

	AA [®] 190 TB	AA [®] 545 Swing Door	AA [®] 720 Door Systems	10D Door
Applications				
New Build				
Refurbishment				
Heavy Commercial				
Key Features				
Finger Guard Option	•			
Dual Colour Option				
Triple Glazing				
Choice of Midrails				
Suites with AA®100/AA®110 Curtain Walling	*			*
Suites with AA®720 System				
Suites with AA®540 System				
Suites with 451PT Framing			•	
Performance				
Weather Performance (BS 6375)				
Security to PAS 24				
Document L Compliant	•	•	•	
Accessories				
Multi-point Locking			•	
Suitable for Automatic Swing Operation			= +	
Suitable for Automatic Sliding Operation				
Panic Exit Hardware				
Suitable for Controlled Access				



Notes:
* Including Framing
+ Contact the Technical Services Department at Runcorn for advice

Door Systems Product Range

Introduction

The market leading experience that Kawneer enjoys in the aluminium sector is attributed to the production of systems that are robust, fit for purpose and guaranteed to meet the total life cycle costs of today's modern buildings.

Kawneer design, engineer and manufacture complete door systems for most applications that reflect the different needs of the various market segments, from robust, prefabricated and severe traffic commercial entrance doors to thermally broken high performance solutions, thus guaranteeing the availability of the right solution for the right application.

High standards of processing ensure equally high standards of performance throughout the lifetime of the product, which have been proved by stringent third party laboratory testing. Strong construction, quality materials, precision engineering, proven hardware and attention to detail are the dependable performance features found in all Kawneer door systems.

Standard Solutions

AA®190 TB A heavy duty thermally broken commercial entrance door

AA®545 A single action open-in or open-out swing door, designed to offer optimum weather and thermal performance at a competitive price.

AA®720 A door available in two levels of thermal performance to enable flexibility of design, performance and cost.

10D Designed to offer flexibility in design, durability and ease of installation.

Door Categories of Use

The table below provides guidance on appropriate applications for the Kawneer Door Systems. The categories of use are as defined in BS 6375-2: 2009.

Categories of use for the UK $^{\mbox{\scriptsize A})}$

Door Type Guide	UK Category of Use	UK Description of Typical Use		
AA®190 TB AA®545 AA®720		Secondary external doorsets to dwellings		
AA®190 TB AA®545 AA®720 AA®720 FR 10D Door	Medium	External doorsets to dwellings, providing primary access. Office doorsets providing access to areas not visited by members of the public and school classrooms ^{B)}		
AA®190 TB AA®720 ^{C)} AA®720 FR ^{C)}	Heavy	Doorsets for shops, hospital wards and other buildings which provide access to designated public areas		
AA®190 TB	Severe	Doorsets for stockrooms, school and hospital corridors etc. Commonly opened by driving trolleys against them		

A) Users should be careful in their selection of class. If a particular use is not specifically mentioned, specifiers should take advice from manufacturers as to the best available category.

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Door and Entrance Systems Characteristics/Regulations

System	Traffic Level	Finger Guard	PAS 24 Single & Double Leaf	Thermal Compliance	Compatibility with Kawneer Curtain Wall	Guarantee
AA®190 TB Door	Heavy/Severe	V	~	/ *	~	Lifetime
AA®545 Swing Door	Medium	V	V	/ *	V	
AA®720 Door Systems	Heavy	~	~	V *	~	
10D Commercial Entrance Door	Light/Medium	V			~	

^{*} Can meet current Building Regulations

Lane Fox REMEO® Centre, East Surrey Hospital, Redhill

Architect: Murphy Philipps Associates



Door Systems www.kawneer.co.uk 7

B) For schools, refer to the DCSF publication Standard specification, layout and dimensions - Internal doorsets in schools [1].

^{C)} Specific hardware and leaf size restrictions apply.

Introduction

Kawneer design, engineer and manufacture complete door systems for most applications. Kawneer's bespoke facility using state of the art manufacturing technology maintains high standards of processing ensuring equally high standards of performance throughout the lifetime of Kawneer products.

The AA®190 TB is an all-purpose door for use in high traffic areas and automatic entrances. Its robust construction means that it is suitable for use in heavy/severe applications. It can be installed with a finger guard pivot stile, which safeguards against injury to fingers accidentally caught between the hinge stile and frame.

Product Features and Benefits

- The AA®190 TB is the only door with welded construction, supported by a Kawneer Lifetime Guarantee offering peace of mind
- AA®190 TB Door independently tested to PAS 24 Standard -Enhanced security performance of single and double leaf external doors
- Finger Guard Pivot Stile, as standard, protects against trapped fingers when opening and closing, a child-friendly feature
- Butt hinge solution available
- An extremely robust door suitable for medium, heavy and severe duty applications
- External and internal applications offering flexibility of design
- Single, double action, auto swing and bi-parting doors, offering flexibility for a wide range of solutions
- A range of thresholds including low thresholds -Document M compliant
- Single or dual colour options

Construction

Kawneer door systems have been proved by stringent laboratory testing. Strong construction, quality materials, precision engineering, proven hardware and attention to detail are the dependable performance features found in all Kawneer door systems.

Welded Corner Construction

The welded corner joint is the strongest aluminium door construction available, each corner having four separate weld points. Rigorous testing has verified its durability and exceptional strength, making it suitable for use in severe duty applications as defined in BS 6375-2: 2009.

Security*

The AA®190 TB Door has been independently tested to PAS 24 for the enhanced security performance of single and double leaf external doors. The AA®190 TB Door meets light, medium, heavy and severe use specifications and is suitable for external and internal doors in all types of buildings from offices and schools to public use doors such as in shops and hospitals.

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

Secured by Design



Official Police Security Initiative

Independently Weather Performance Tested to BS 6375-1: 2015

	Air Infiltration	Watertightness	Wind Resistance
	BS EN 12207: 2000	BS EN 12208: 2000	BS EN 12210: 2000
AA®190 TB Door*	Class 2 (300 Pa)	Class 3A (100 Pa)	Class C2 (800 Pa)

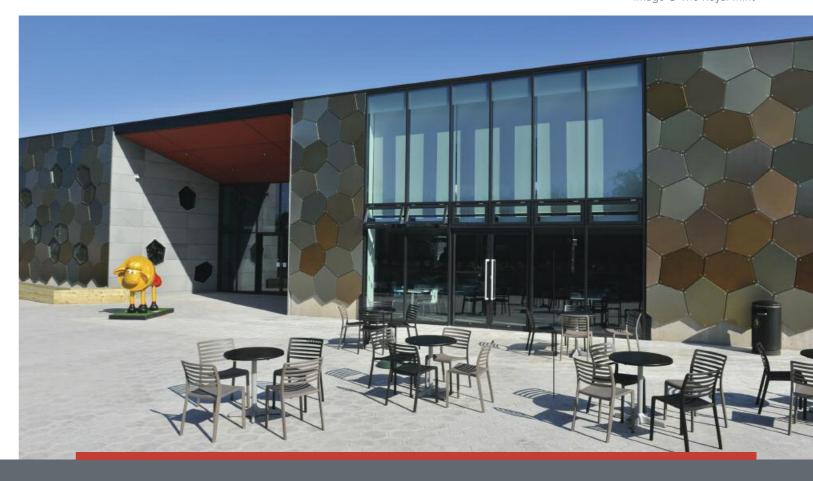
^{*} Open-In Double Door with Butt Hinges and Rebated Threshold

Data and Reports for other door configurations are available from the Technical Services Department at Runcorn.

AA®190 TB Commercial Entrance Door Product Details Product Sizes and Options

Feature	Finger Guard Pivot	Butt Hinge	Auto Slide
Max Leaf Height	3000mm	3000mm	3000mm
Max Leaf Width	1320mm	1200mm	1500mm
Max Leaf Area	3.3m ²	3.0m ²	4.5m ²
Double Glazing	V	V	V
Triple Glazing	V	V	V
Single Action	V	V	
Dual Action	V		
Max Leaf Weight with Concealed Closer	120kg		
Max Leaf Weight with Floor Spring	200kg		
Max Leaf Weight with Surface Mounted Closer	120kg	120kg	
Concealed Panic	V	V	
Surface Mounted Panic	V	V	
BS 8300-2: 2018 Compliant Threshold	V	V	
Rebated Threshold		V	

The Royal Mint, Llantrisant
Architect: Rio Architects
Image © The Royal Mint









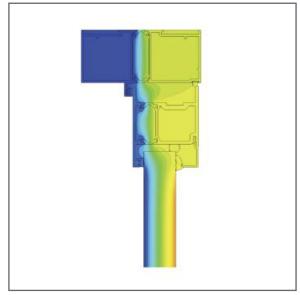
AA®190 TB Butt Hinge and Rebated Threshold Open Out (external view)

All options are available in the 'H' Section of the AA®190 TB Product Manual

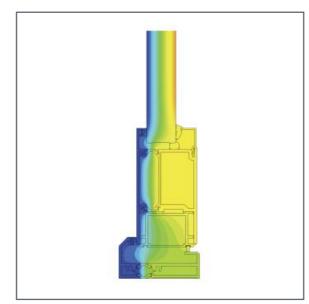
U-values

U-values are based on a standard single door, open out on a CEN sized door

Single - Open Out - Low Threshold					
Centre Pane Ug	1.0 W/m²K	0.7 W/m²K			
Whole Door Uw	1.73 W/m²K	1.52 W/m²K			



Butt Hung Open In Head Detail



Butt Hung Open In Threshold

AA®190 TB Door

Typical Elevations

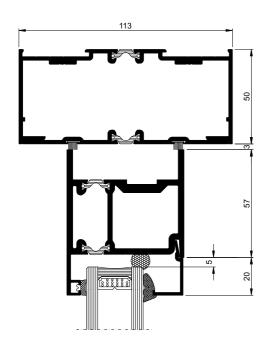
Full details can be downloaded from our website www.kawneer.co.uk

evation			Title	Website CAD re	f. no.
Single Leaf Doors	Double Leaf Doors			Round Finger Guard	Flat Finger Guard
•	4 4	1	Head	H1 02.01	H2 02.01
		2	Threshold	H1 03.01, H1 04.01	H2 03.01, H2 04.01
				H1 05.01	H2 05.01
Ħrì \ Ħfi	#17 / #17 / #17	3	Midrail	H1 07.01	H2 07.01
73	<u> </u>	4	Pivot Stile	H1 08.01, H1 13.01	H2 08.01, H2 11.01
<u>⊪ - </u>	║╶╛ ╱╢	5	Lock Stile	H1 09.01, H1 11.01	H2 09.01, H2 12.01
∥ /′ ∥				H1 12.01, H1 14.01	
∥ /4 ∥	₩4 ₩3\₩			H1 15.01, H1 16.01	
الكيا		6	Meeting Stile	H1 10.01	H2 10.01
	-z -z				
Single Leaf Doors	Double Leaf Doors			Butt Hinge Open-in	Butt Hinge Open-o
- 1	_1 _1	1	Head	H3 02.01, H3 11.01	H4 02.01, H4 11.01
		2	Threshold	H3 03.01, H3 04.01	H4 03.01, H4 04.01
4 . 5	4 6 / 4			H3 05.01, H3 06.01	H4 05.01, H4.06.01
#r \		3	Midrail	H3 07.01	H4 07.01
□ ¬³` √	 	4	Hinge Stile	H3 08.01, H3 12.01	H4 08.01, H4 12.01
		5	Lock Stile	H3 09.01, H3 13.01	H4 09.01, H4 13.01
		6	Meeting Stile	H3 10.01	H4 10.01
Auto Slide (single)	Auto Bi-Parting			Auto Slide	
		1	Head	H5 02.01	
<u> </u>		2	Threshold	H5 03.01, H5 04.01	
				H5 05.01	
c∰ti dhi	╬, ₩, ₩ ,	3	Midrail	H5 07.01	
 3	¬³ ¬³	4	Jamb	H5 08.01	
╟═┹╗	╟╶╛╢┈╛╢	5	Lock Stile	H5 09.01	
		6	Meeting Stile	H5 10.01	
_			•		
ل نظ					

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

Finger Guard Pivot Door

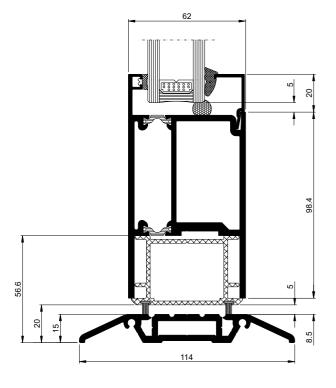
Head Detail





H1 02.01 Viewed Externally

Threshold Detail





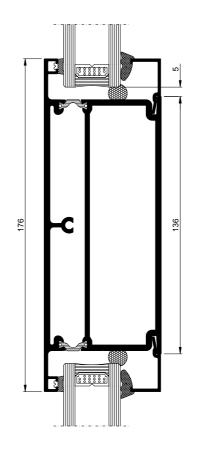
H1 03.01 Viewed Externally

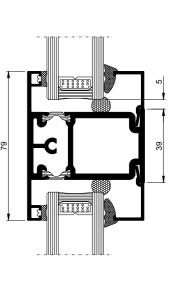
AA®190 TB Door

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

Finger Guard Pivot Door

Midrail Options





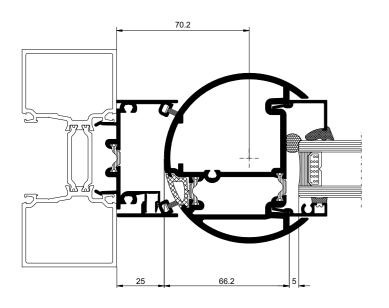


H1 07.01 Viewed Externally

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

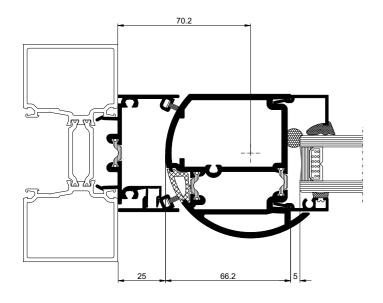
Finger Guard Pivot Door

Jamb Detail (Rounded Finger Guard)





Jamb Detail (Flat Finger Guard)



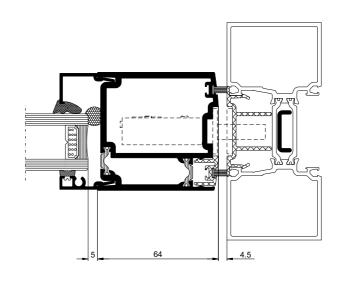


AA®190 TB Door

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

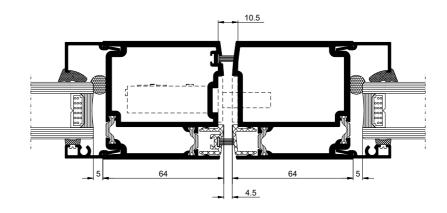
Finger Guard Pivot Door

Jamb Detail (Lock Stile)





Double Door (Meeting Stile)

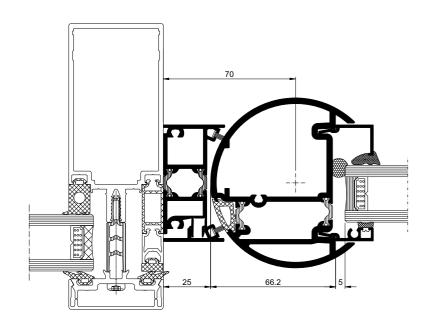




Full details can be downloaded from our website www.kawneer.co.uk

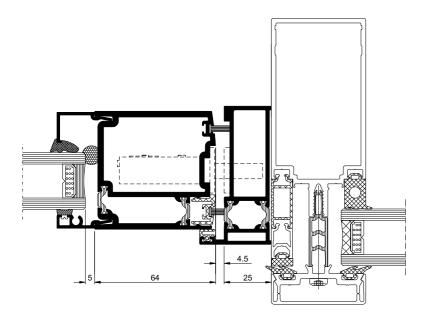
Finger Guard Pivot Door

Jamb Detail - Curtain Wall Adaptor





Jamb Detail – Lock Stile Curtain Wall Adaptor



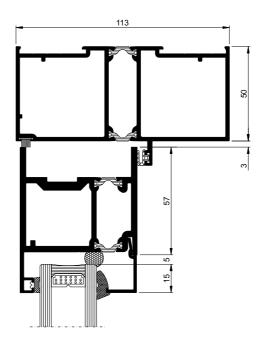


AA®190 TB Door

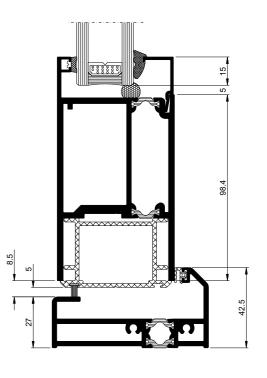
Full details can be downloaded from our website www.kawneer.co.uk

Butt Hinge Door

Head Detail (Open Out)



Rebated Threshold Detail (Open Out)





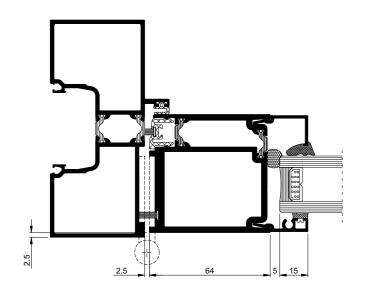


H4 05.01 Viewed Externally

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

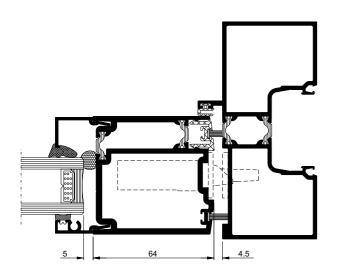
Butt Hinge Door

Jamb Detail - Hinge Stile (Open Out)



H4 08.01 Viewed Externally

Jamb Detail - Lock Stile (Open Out)



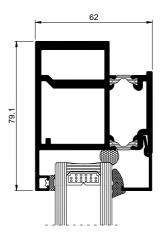


AA®190 TB Door

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

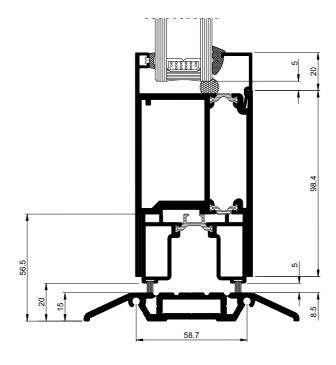
Auto Slider

Head Rail





Threshold





Introduction

The AA®545 Swing Door completes the AA®540 Series Window & Door range and has been designed to offer optimum weather and thermal performance at a competitive price.

The AA®545 Swing Door is a high performance door which uses multi-chamber thermal break technology and a thermally enhanced centre seal, ensuring thermal efficiency and full compliance with Approved Document L. With the use of extruded gasket profiles, this system achieves its weathering performance by means of drained and ventilated glazing rebates.

Designed for direct fix into prepared openings and within ribbon windows, the range can suite with the Kawneer curtain walling and framing systems and is suitable for low or high rise buildings.

The AA®545 Swing Door is available as a single action openin or open-out swing door and can be single or dual colour. It is suitable for both light and medium duty requirements, making it ideal for low to medium frequency use in dwellings and commercial applications.

Product Features and Benefits

- Insulated profiles with multi chamber thermal break core offering market leading thermal performance
- Market leading glass thickness capabilities Triple glazing up to 47mm
- Low (for easy wheelchair access) or barrier free/rebated threshold Low threshold provides improved accessibility for all users and is Document M compliant
- Finger guard option (additional hardware) provides safety in use

- Square and Softline profile options provide a choice of aesthetics
- Adjustable two or three part hinges Suitable for use in medium traffic locations
- A variety of panic hardware available A choice of push and touch bar options providing added flexibility in demanding applications
- Suites with the AA®541 Casement, AA®542 Pivot, AA®543 Tilturn, Kawneer's Curtain Walling and Framing Systems with total design flexibility offering total project solutions

Construction

The AA®545 Swing Door is a three chamber pressure equalised system crimped with mechanical corner cleats. Weathering is achieved by the use of single and dual durometer, EPDM gaskets.

Security*

The AA®545 Swing 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

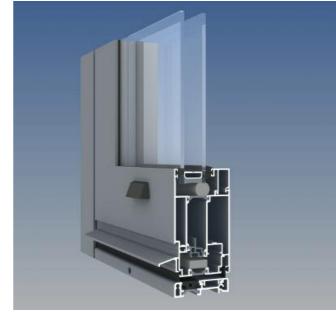


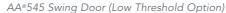
Independently Weather Performance Tested to BS 6375-1: 2015

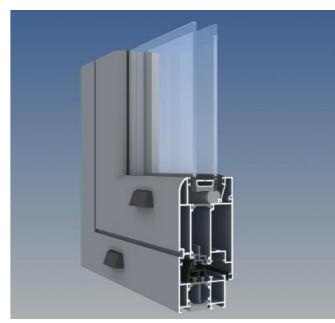
	Air Infiltration	Watertightness	Wind Resistance
	BS EN 12207: 2000	BS EN 12208: 2000	BS EN 12210: 2000
AA®545 Swing Door*	Class 3 (600 Pa)	Class E750 (750 Pa)	Class CE2400 (2400 Pa)

^{*} Single Door, Outward Opening with Frame Threshold

Details of the Kawneer product tests are available from the Technical Services Department at Runcorn.







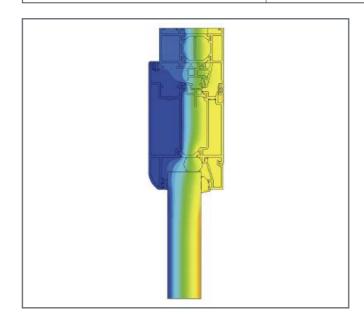
AA®545 Swing Door - Softline Option (Frame All Around Option)

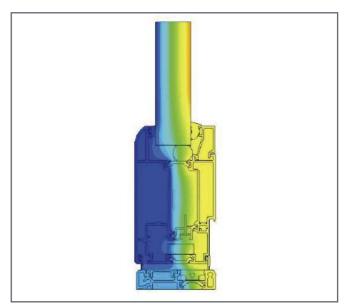
All Inward Opening and Outward Opening options are available in the H Section of the AA®545 Product Manual

U-values

U-values are based on a standard single door, open out on a CEN sized door

Single - Open Out - Low Threshold	Centre Pane	e Ug W/m²K
	1.1 W/m²K	0.6 W/m²K
Whole Door Uw	1.61 W/m²K	1.29 W/m²K





Door Systems www.kawneer.co.uk 21

Typical Elevations

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

Elevation	Title		Website CAD ref. no.		
			Open-in	Open-out	
_	1	Head	H1 03.01	H2 03.01	
. 77.	2	Threshold	H1 04.01, H1 05.01, H1 06.01	H2 04.01, H2 05.01, H2 06.01	
#h/##	3	Hinge Jamb	H1 07.01	H2 07.01	
	4	Lock Jamb	H1 08.01	H2 08.01	
™ \~ 	5	Midrail	H1 09.01	H2 09.01	
J	22	Hinge Jamb (Finger Guard)	H1 32.01, H1 33.01, H1 34.01	H2 32.01, H2 33.01, H2 34.01	
J ₂ J ₂₃	23	Threshold (Finger Guard Door)	H1 35.01, H1 36.01, H1 37.01	H2 35.01, H2 36.01, H2 37.01	
	1	Head	H1 03.01	H2 03.01	
	2	Threshold	H1 04.01, H1 05.01, H1 06.01	H2 04.01, H2 05.01, H2 06.01	
₩/₩/₩	3	Hinge Jamb	H1 07.01	H2 07.01	
	5	Midrail	H1 09.01	H2 09.01	
traction system	6	Meeting Stile	H1 10.01	H2 10.01	
Softline	15	Head	H1 21.01	H2 21.01	
715	16	Threshold	H1 22.01, H1 23.01, H1 24.01	H2 22.01, H2 23.01, H2 24.01	
	17	Hinge Jamb	H1 25.01	H2 25.01	
`` # \/ # \"	18	Lock Jamb	H1 26.01	H2 26.01	
19	19	Midrail	H1 27.01	H2 27.01	
Softline	15	Head	H1 21.01	H2 21.01	
	16	Threshold	H1 22.01, H1 23.01, H1 24.01	H2 22.01, H2 23.01, H2 24.01	
20 17	17	Hinge Jamb	H1 25.01	H2 25.01	
	19	Midrail	H1 27.01	H2 27.01	
Isoden John	20	Meeting Stile	H1 28.01	H2 28.01	
	2	Threshold	H1 04.01, H1 05.01, H1 06.01	H2 04.01, H2 05.01, H2 06.01	
- -	3	Hinge Jamb	H1 07.01	H2 07.01	
	5	Midrail	H1 09.01	H2 09.01	
	6	Meeting Stile	H1 10.01	H2 10.01	
70	7	Fanlight Jamb	H1 11.01	H2 11.01	
	8	Door Head/Fanlight Transom	H1 12.01	H2 12.01	
, ,	3	Hinge Jamb	H1 07.01	H2 07.01	
7.	7	Fanlight Jamb	H1 11.01	H2 11.01	
THE	8	Door Head/Fanlight Transom	H1 12.01	H2 12.01	
	9	Coupled Flag Frame/Lock Jamb	H1 13.01	H2 13.01	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	Fanlight Jamb	H1 11.01	H2 11.01	
	8	Door Head/Fanlight Transom	H1 12.01	H2 12.01	
	9	Coupled Frame/Lock Jamb	H1 13.01	H2 13.01	
	10	Coupled Frame/Hinge Jamb	H1 14.01, H1 15.01	H2 14.01, H2 15.01	

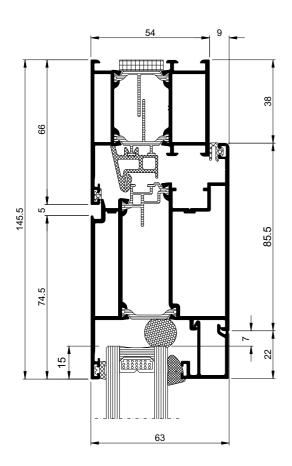
ation		Title	Website CAD	ref. no.
			Open-in	Open-out
Sice Muntin	21	Box Muntin (internal)	H1 29.01	H2 29.01
	21	Box Muntin (external)	H1 30.01, H1 31.01	H2 30.01, H2 31.01
1 1	11	Curtain Wall/Hinge Jamb	H1 16.01, H1 17.01	H2 16.01, H2 17.01
713	12	Curtain Wall/Lock Jamb	H1 18.01	H2 18.01
	13	Curtain Wall/Head	Н1 19.01	H2 19.01
1 5 ¹⁴ 1	11	Curtain Wall/Hinge Jamb	H1 16.01, H1 17.01	H2 16.01, H2 17.01
	12	Curtain Wall/Lock Jamb	H1 18.01	H2 18.01
	14	Curtain Wall/Fanlight Head	H1 20.01	H2 20.01



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

Inward Opening

Head Detail





H1 03.01 Viewed Externally

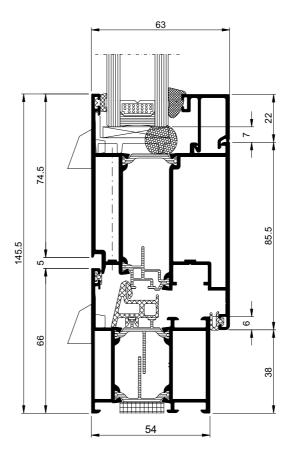
AA®545 Swing Door

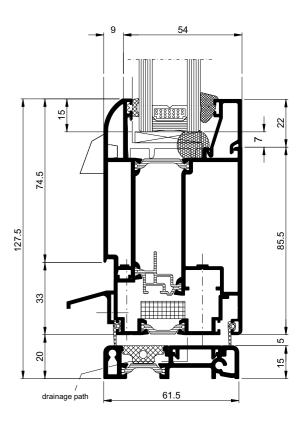
Full details can be downloaded from our website www.kawneer.co.uk

Inward Opening

Rebated Threshold

Low Threshold Softline







H1 06.01 Viewed Externally

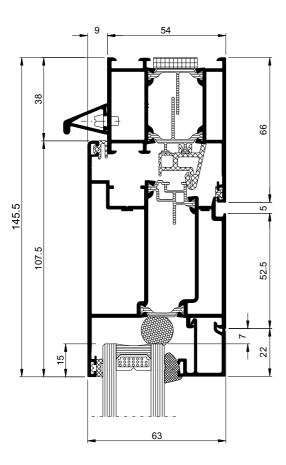


H1 22.01 Viewed Externally

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

Outward Opening

Head Detail





H2 03.01 Viewed Externally

AA®545 Swing Door

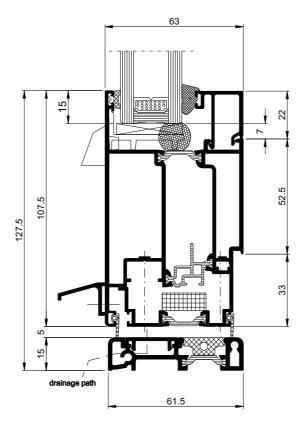
Full details can be downloaded from our website www.kawneer.co.uk

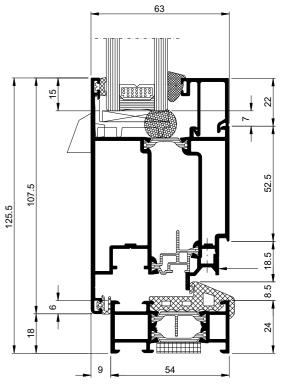
Outward Opening

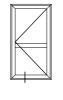
Low Threshold

|-- 63

Barrier Free Threshold







H2 04.01 Viewed Externally

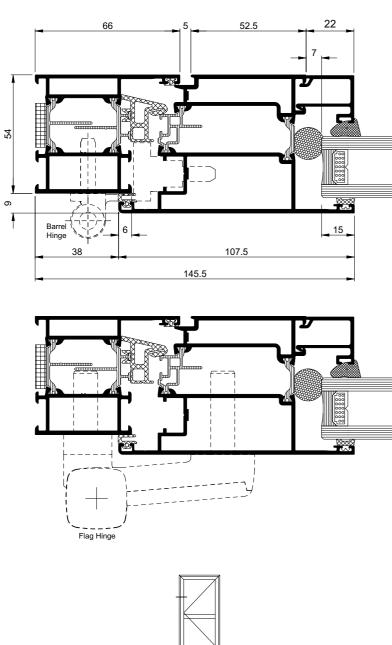


H2 05.01 Viewed Externally

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

Outward Opening

Hinge Jamb Details





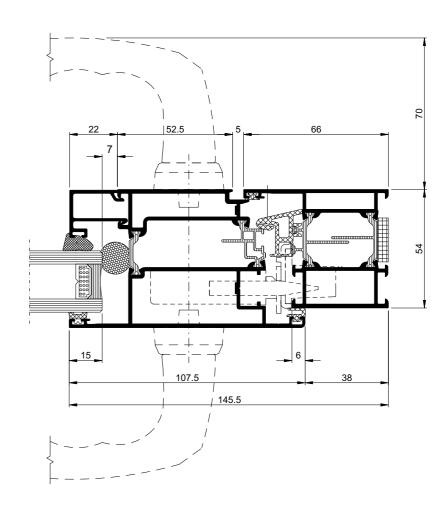
H2 07.01 Viewed Externally

AA®545 Swing Door

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

Outward Opening

Lock Jamb Detail



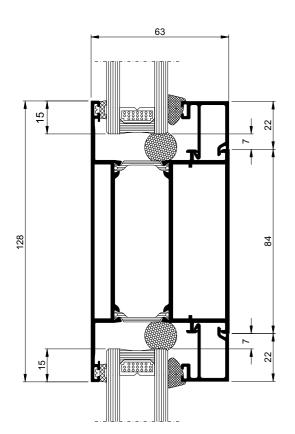


H2 08.01 Viewed Externally

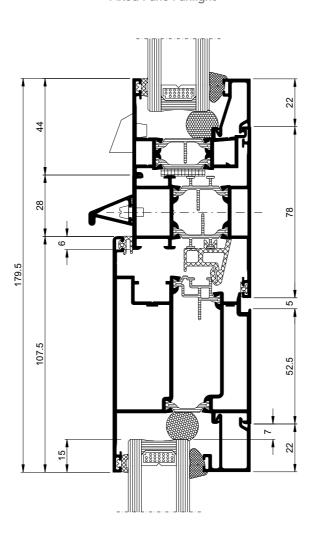
Full details can be downloaded from our website www.kawneer.co.uk

Outward Opening

Midrail Detail



Fixed Pane Fanlight





H2 09.01 Viewed Externally

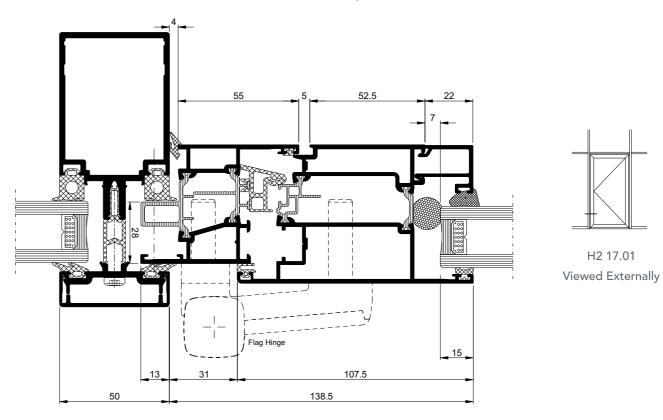
H2 12.01 Viewed Externally

AA®545 Swing Door

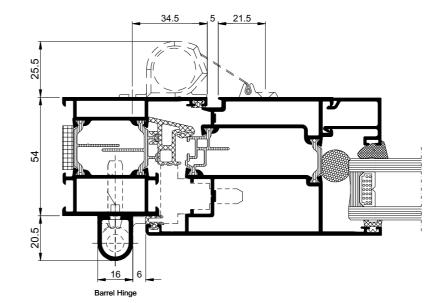
Full details can be downloaded from our website www.kawneer.co.uk

Outward Opening

Curtain Wall Hinge Jamb Detail



Fingerguard – Hinge Jamb Detail





H2 33.01 Viewed Externally

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*

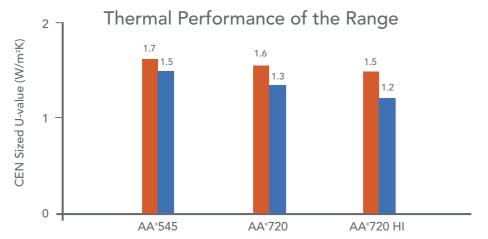
The AA®720 Door has been independently tested to PAS 24 for the enhanced security performance of single and double leaf external doors.

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

Secured by Design



Official Police Security Initiative



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/m ² K	1.5 W/m ² K	1.6 W/m ² K
U-value (Triple Glazing)**	1.3 W/m ² K	1.2 W/m ² K	1.3 W/m ² K
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)	-	-	El 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		1 400mm 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.

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

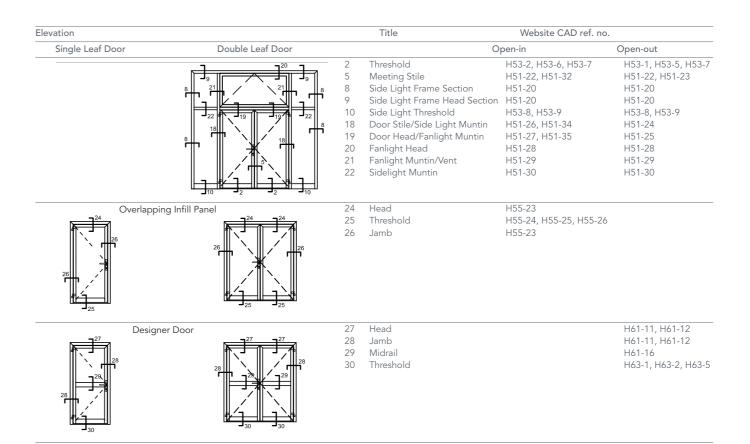
Door Systems www.kawneer.co.uk 33

^{**} 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

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
4, 23	4, 23	1 2 3 4 5 12 23	Head Threshold Midrail Jamb Meeting Stile Perimeter Door Leaf - Threshold 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	H53-1, H53-5, H53-7 H51-14
		2 3 4 5 6	Threshold Midrail Jamb Meeting Stile 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
4 3 3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1		1 2 3 4 5 7 8 9	Door Head Threshold Midrail Jamb Meeting Stile Door Stile/Side Light Frame Section Side Light Frame Section Side Light Frame Head Section 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
1111998	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 4 5 8 9 10	Door Head Threshold Jamb Meeting Stile Side Light Frame Section Side Light Frame Head Section Side Light Threshold 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
16		2 10 13 14 15 16 17	Threshold Side Light Threshold Special Door Frame Jamb Door Stile/Side Light Special Muntin Door Stile/Fanlight Special Muntin Fanlight Frame Head/Jamb Fanlight/Special Muntin		H53-1, H53-5, H53-7 H53-8, H53-9 H51-45 H51-46 H51-47 H51-48 H51-49

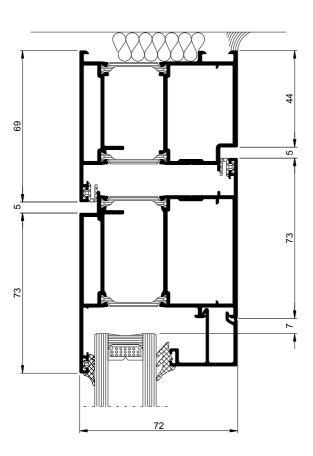




Full details can be downloaded from our website www.kawneer.co.uk

Inward Opening

Head Detail





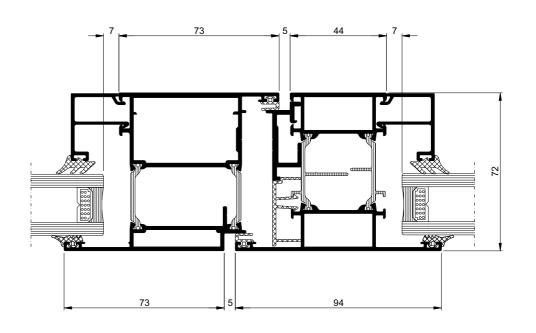
H51-11 Viewed Externally

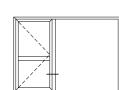
AA®720 Door Systems

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

Inward Opening

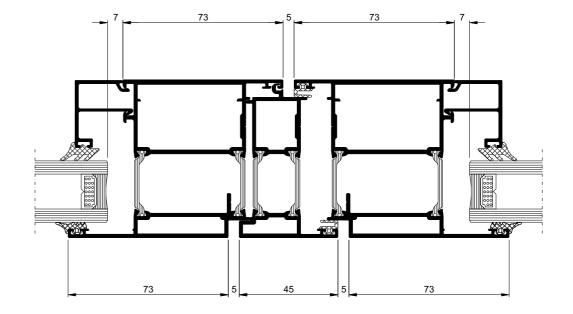
Standard Door Side Light





H51-17 Viewed Externally

Standard Door Meeting Stile



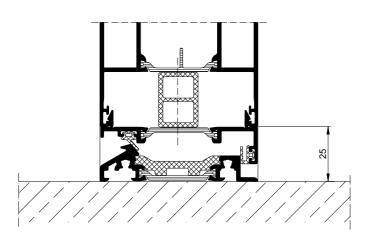


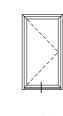
H51-23 Viewed Externally

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

Inward Opening

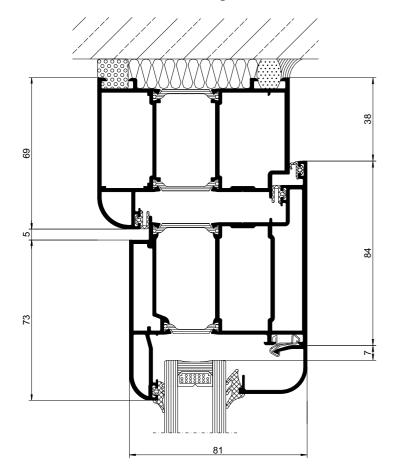
Standard Door Threshold





H53-01 Viewed Externally

Design Door Head Detail





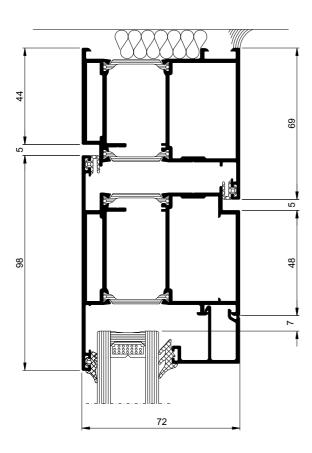
H61-11 Viewed Externally



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

Outward Opening

Head Detail





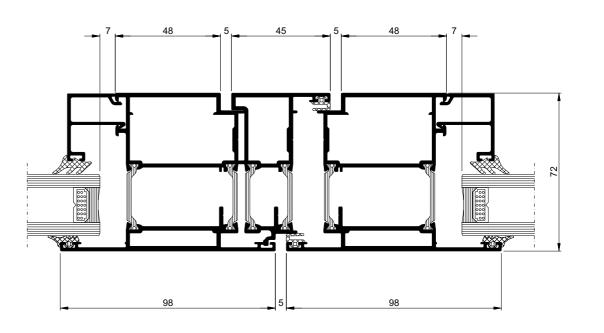
H51-12 Viewed Externally

AA®720 Door Systems

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

Outward Opening

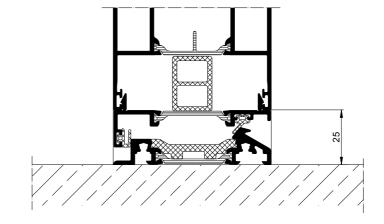
Standard Door Meeting Stile





H51-32 Viewed Externally

Standard Door Threshold



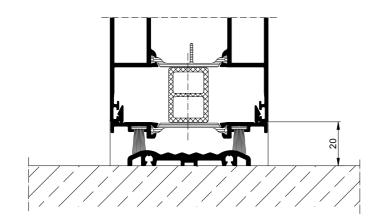


H53-02 Viewed Externally

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

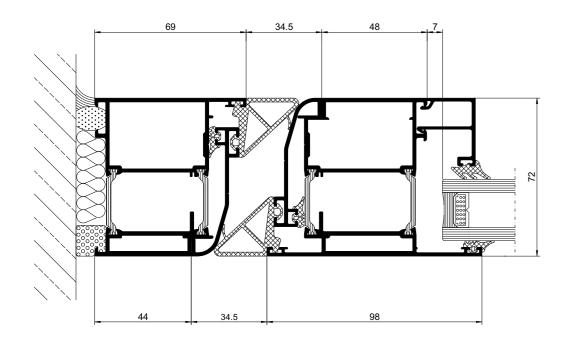
Outward Opening

Standard Door Low Threshold





Finger Guard Door Hinge Jamb







10D Door

Introduction

The 10D Door has been designed to offer flexibility in design, durability and ease of installation.

The strength of the tie rod construction means the door provides an economic solution to light/medium traffic applications in a variety of markets, including retail, commercial and public sectors.

Product Features and Benefits

- Commercial Entrance Door offering flexibility in design, durability and ease of installation
- Finger Guard Options Protects against trapped fingers when opening and closing, a child-friendly feature
- Tie Rod Construction Improves strength of construction

Size Limitations

Door Leaf Sizes (for all types)

Maximum Door Leaf Size

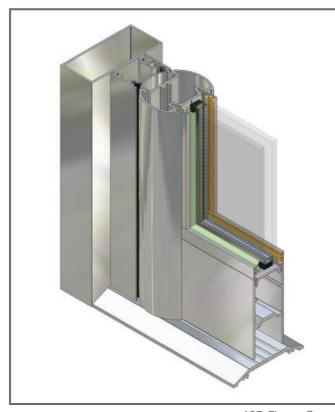
Height = 2200mm

Width = 1220mm

Area = $2.7m^2$

Minimum Door Leaf Size

Width = 450mm



10D Finger Guard (Finger Guard Options must have a threshold)

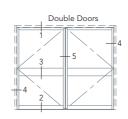


10D Door

Typical Elevations

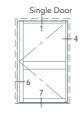
Full details can be downloaded from our website www.kawneer.co.uk

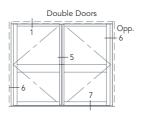
Standard Doors Single Door



Note: The standard doors can be used with or without a threshold.

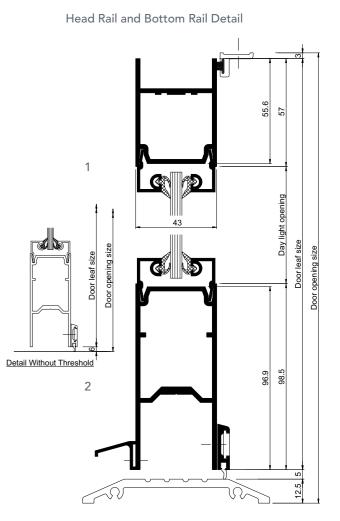
Finger Guard Doors





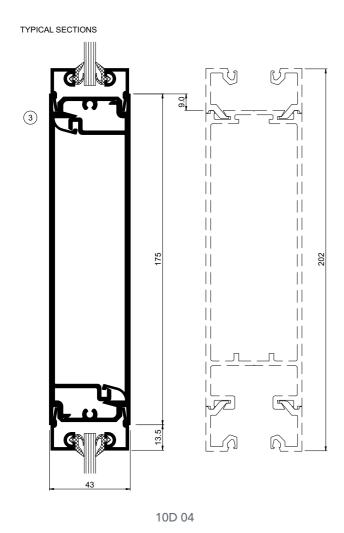
 $\underline{\text{Note}}$: The Finger Guard doors must have a threshold. 10D C02

Elevation	Title	Website cad ref no.	
1, 2	Head rail and bottom rail indicating weathering profile	10D 03	
3	Mid rail	10D 04	
4, 5	Jamb and meeting stile	10D 05	
6, 7	Outward opening door lock jamb	10D 06	



10D 03

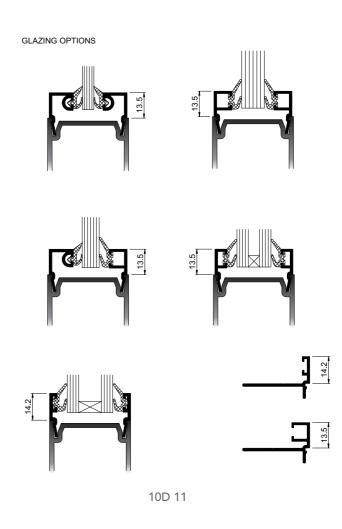
Midrail Typical Detail



10D Door

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

Entrance Doors



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Case Study - Lane Fox REMEO® Centre, Redhill

Kawneer systems were "critical" to a ground-breaking healthcare project.

Kawneer systems were specified by architects Murphy Philipps Associates for the multi-award winning and ground-breaking Lane Fox REMEO® Centre at East Surrey Hospital in Redhill. The building features Kawneer's curtain walling, windows, doors and framing systems.

The Lane Fox REMEO® Centre acts as a 20-bed satellite for the Lane Fox Respiratory Unit at St Thomas' Hospital in London, which has been the national centre for the management of chronic respiratory failure for almost 30 years.

It features Kawneer's AA®100 zone-drained curtain walling, 451PT framing, AA®541 top-hung casement and AA®543 tilturn windows, AA®3110HW horizontal sliding windows, and series 190 heavy duty commercial entrance doors.

The unit is the UK's first purpose-built centre to wean respiratory patients from invasive mechanical ventilation, thereby improving recovery rates and enabling patients to "remeo" which means "I return home" in Latin.

The building was also developed as part of a landmark public-private partnership between Guys' and St Thomas' NHS Foundation Trust and REMEO Ltd, a subsidiary of BOC Healthcare Ltd.

Built on the edge of the acute hospital but orientated to maximise views of neighbouring ancient woodland, the new unit provides a therapeutic retreat with a homely atmosphere, supported by cutting edge technology and world-leading clinical expertise.

Mono-pitched roofs and high-level glazing allow views of the surrounding woodland from all areas within the centre. Large areas of glazing and outdoor terraces blur the boundary between indoor and outdoor spaces, with timber used internally, as ceilings in communal areas and features in the single and multi-bed rooms, and externally, as cladding, canopies and flooring, complementing the connection.

The systems by Kawneer were installed on the 1,850m² building by specialist sub-contractor HB Aluminium for main contractor DD Porter.

Marc Levinson, project director at Murphy Philipps Associates who have used Kawneer systems on several previous healthcare projects, said: "We specified the Kawneer systems because they met the performance specification and demonstrated value for money for the client.

"They played a critical part in the project as a key requirement of the brief was to maximise natural daylight to the interiors. They provide clear sight lines to the external spaces and play a vital role in bringing natural light and views of outdoor landscaping into the heart of the building as part of the provision of a therapeutic environment."

The Lane Fox REMEO® Centre has won many awards including Best Acute Hospital Development in the Building Better Healthcare Awards.







Supporting Your Projects



Authorities

ISO 9001

Quality Management System

BS EN 12020

Extruded precision aluminium profiles

BS EN 12206-1

Paint and varnishes. Coating of aluminium and aluminium alloys for architectural purposes

BS 3987

Specification for anodic coatings

BS 6375 Part 1

Classification for weathertightness

BS 6375 Part 2

Classification for operation and strength characteristics

BS 6375 Part 3

Classification for additional performance characteristics

DC 107

Specification for aluminium alloy windows and doorsets

PAS 24

Enhanced security performance requirements for doorsets and windows in the UK

BS 4255 Part 1

Specification for non-cellular gaskets

A full range of guaranteed colours available

Established in the UK for over 50 years and powder coating profiles at its Runcorn base for 40 years, Kawneer has deep knowledge and experience in the specification and application of colour and paint systems.

The existing powder coating facility was converted to 'chrome free' – the first existing plant in the UK to be upgraded to this environmentally friendlier pre-treatment system – which gave Kawneer additional impetus to become a QUALICOAT approved applicator.

Quality and consistency of quality continues to be the main feature of QUALICOAT UK & Ireland, which includes third party testing of all certified powder formulations and pretreatment systems that make up the QUALICOAT approval process. Kawneer has achieved 'Seaside' specification standard with this third party accreditation programme.

Kawneer Permacover™ is a high quality polyester powder paint finish, offering a wide range of solid and metallic colours providing outstanding resistance to environmental conditions. Kawneer Permacover™ has a 15 year gloss and 30 year matt and metallic guarantees subject to application and Kawneer acceptance in marine, industrial, swimming pools or other aggressive atmospheres.

To ensure the highest quality finish, powder coating is carried out in house as part of our single-source responsibility.

Kawneer Permanodic® is a range of subtle anodised colours which have been specifically developed for architectural glazing systems. Kawneer Permanodic® is a tried and tested anodising process, proven in accelerated laboratory tests, extensive field trials and contract experience. Subject to compliance with Kawneer's requirements, a 25 year finishes guarantee can be obtained.

Project Assistance

Kawneer's regionally based team of Architectural Advisers and the Architectural Services Team based at our Head Office in Runcorn are able to provide project advice and support:

Tel: 01928 502604 / Fax: 01928 502512 Email: kawneerAST@arconic.com

Information on Kawneer's extensive range of Curtain Wall, Window, Framing, Door, Fire Resistant and Sliding Solutions can also be obtained from our Head Office by calling:

Tel: 01928 502612

Kawneer UK Ltd is part of Arconic Building and Construction Systems, and enjoys the extensive resources of the entire Arconic organisation, allied to the specific glazing systems experience of Kawneer's many operations around the world. As a result of this our partners and customers have direct access to one of the largest pools of technical expertise in the construction industry.

