Other brochures available on request from Kawneer are:

- Finishes

- Framing Systems
- Curtain Wall Systems
- Unitised Curtain Wall Systems
- AA®130 Brise Soleil System Solar Shading for Reduced Solar Heat Gain
- Window Systems
- Juliet Balcony
- LouvreShield
- Sliding Solutions
- Fire Resistant Systems
- Suited Handle Range
- Sustainability
- Maintenance and Cleaning
- Education
- Residential
- Perspektives
- The Architects Guide to Aluminium in Building

Front Cover: Kawneer's AA®190 TB Door











August 2022

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

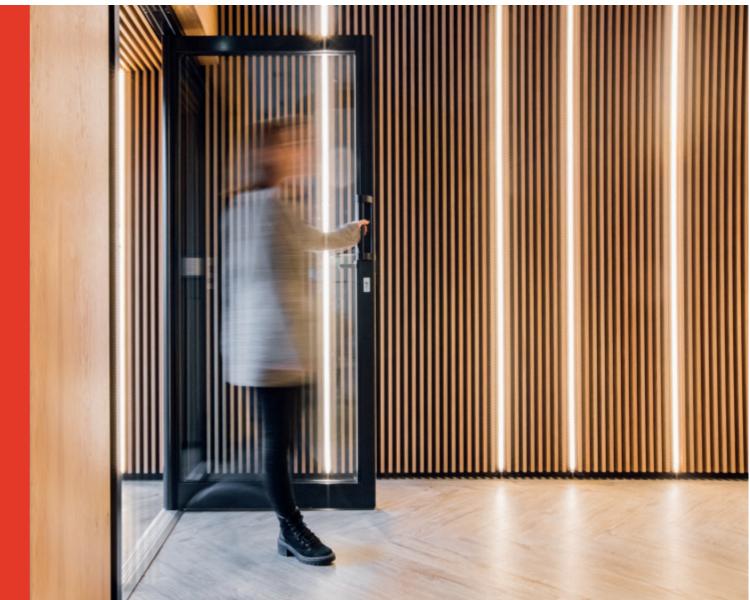
> Kawneer UK Ltd Astmoor Road Astmoor Industrial Estate Runcorn Cheshire WA7 1QQ United Kingdom Tel: +44 (0) 1928 502500

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Architectural Services Team Tel: +44 (0) 1928 502604 Email: kawneerAST@arconic.com

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ARCHITECTURAL ALUMINIUM GLAZING SYSTEMS



DOOR SYSTEMS





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Contents

Door Systems Product Selector
 Suited Handle Range
 Door Systems Product Range
 AA®190 TB Door
 AA®545 Swing Door
 AA®720 Series Door Systems
 Supporting Your Projects

Door Systems

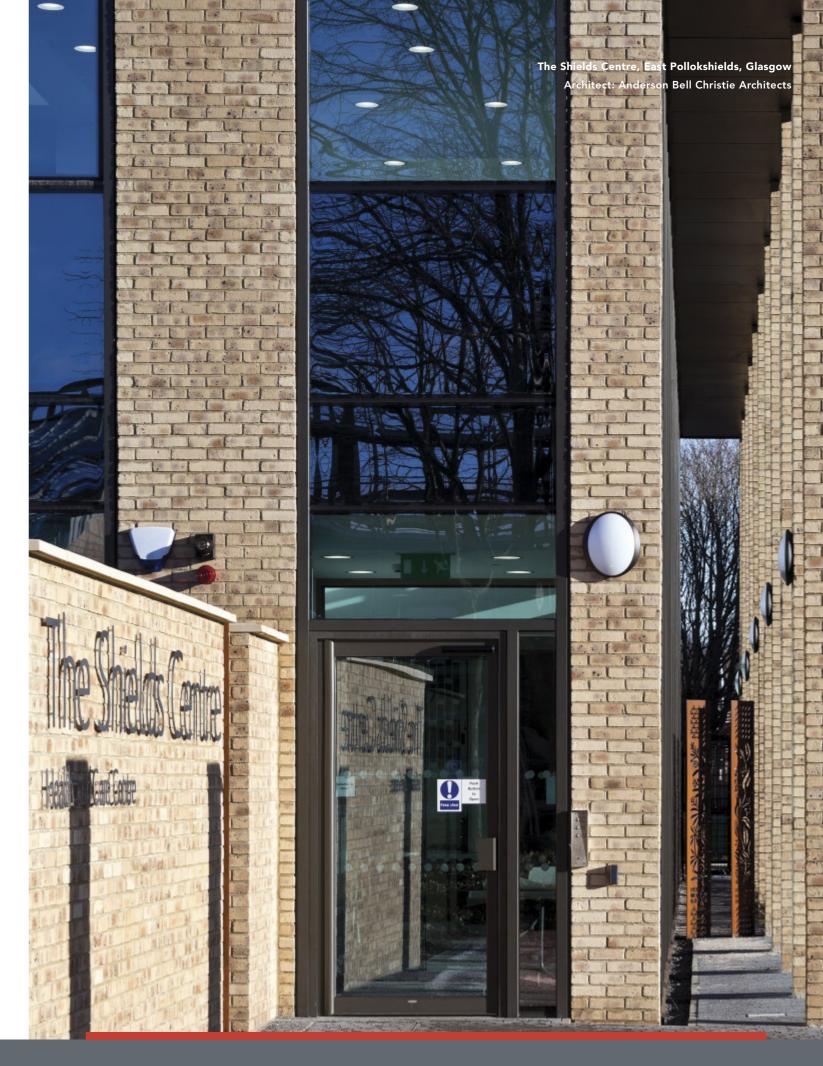


4
6
8
10
22
34
46

Door Systems Product Selector

	AA [®] 190 TB	AA [®] 545 Swing Door	AA [®] 720 Door Systems
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			-
Suited Handle Options‡			
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 ‡ Suited handles available for the AA®720 Door, see pages 6 and 7





Suited Handle Range

Introduction

A full range of architecturally inspired handles have been developed to complement the AA®720 and AA®720 SL Casement Windows, AA®720 Tilturn Window, AA®3720 Folding/Sliding Door, AA®3572 Lift/Slide Door and AA®720 Door. With a vast and impressive range of finishes, including stainless steel, we can deliver project specific painted hardware to match RAL finishes, ensuring a consistent design and colour visual appearance of hardware across multiple products used within the same settings.

Kawneer offers two ranges of handle styles that suite across multiple window and door systems. They provide specifiers with the option of high quality window and door furniture in matching finishes and styles.

K-Vesta

K-Vesta is a modern, sleek and elegant design that is available on a range of handles for use on inward opening and outward opening windows, hinged doors, bifold and lift/slide doors.

K-Vesta handles are available in a range of polyester powder coated finishes achieving a high corrosion-resistance Class 5. In addition to the range of standard colours K-Vesta handles can be painted in over 450 RAL finishes including textured coatings. See below for some examples:



Standard Door Handle

Tilturn Locking Handle



For the full range of Suited Handle Options

please see our Suited Handle Range Brochure

K-Duro

K-Duro handles are a modern and stylish handle design manufactured in stainless steel. The K-Duro range includes handles for use with inward opening windows, hinged doors, bifold and lift/slide doors. See below for some examples:





Standard Door Handle

Tilturn Locking Handle



K-Vesta Product Selector

Name	AA [®] 720 Casement	AA [®] 720 SL Casement	AA [®] 720 Tilturn	AA [®] 720 Door	AA [®] 3720 Bifold Door	AA [®] 3572 Lift/Slide Door
TBT Handle - Non Locking			 Image: A start of the start of			
TBT Handle - Lockable			 			
Espagnolette Window Handle Lockable	V	~				
Lift/Slide Handle - Inner Side - with Cylinder						 ✓
Lift/Slide Handle - Outside - with Cylinder						~
Lift/Slide Handle - Inner Side - without Cylinder						~
Lift/Slide Handle - Outside - without Cylinder						~
Internal Door Handle on Short Backplate				V	 ✓ 	
External Door Handle on Short Backplate					 ✓ 	
Internal Door Handle				V	 ✓ 	
External Door Handle					 ✓ 	
External Door Handle without Cylinder Hole (a=21.5mm)					V	
External Door Handle				~		
Bifold Shootbolt Lever					v	

K-Duro Product Selector

Name	AA [®] 720 Tilturn	AA [®] 720 Door	AA [®] 3720 Bifold Door	AA [®] 3572 Lift/Slide Door
Finger Pull				~
Window Handle with Cylinder	v			
Window Handle with Spindle 25mm	v			
Internal Door Handle		V	V	
External Door Handle			V	
Internal Door Handle		V	V	
External Door Handle			V	
External Door Handle without Cylinder Hole			V	
External Door Handle		V		
Lift/Slide Handle - Inner Side - with Cylinder				~
Lift/Slide Handle - Outside - with Cylinder				~
Lift/Slide Handle - Inner Side - without Cylinder				~
Lift/Slide Handle - Outside - without Cylinder				~

Both K-Vesta and K-Duro door handles incorporate an integrated spring system which returns the handle to its original starting position. The door handles are unhanded with an integral click system allowing them to rotate through 360° in four stages at 90° each. K-Vesta and K-Duro handles are suitable for use on Kawneer PAS 24 certified window and door systems.

www.kawneer.co.uk



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.

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	
AA®720 Door Systems	Heavy	V	V	✓*	V	

* Can meet current Building Regulations

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 $^{\mbox{\tiny A})}$

Door Type Guide	UK Category of Use	UK Description of Typical Use
AA®190 TB AA®545 AA®720 AA®720 FR	Light	Secondary external doorsets to dwellings
AA®190 TB AA®545 AA®720 AA®720 FR	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)}	Неаvy	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.

^{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.

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Unit 216, Cambridge Science Park Architect: Broadway Malyan

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



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

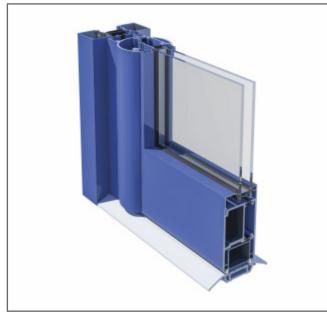
Product Sizes and Options

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 Round Finger Guard with Threshold (internal view)

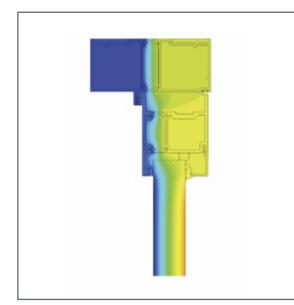
AA®190 TB Butt Hinge and Rebated Threshold Open Out (external view)

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

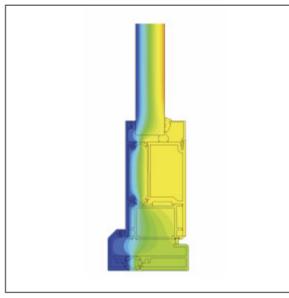
U-values

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

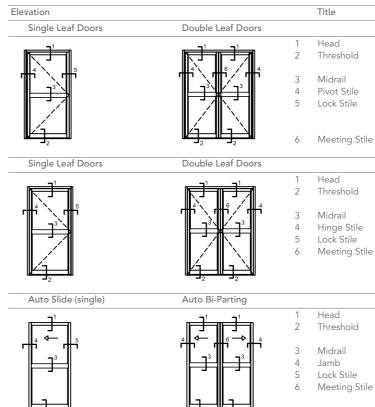


Butt Hung Open In Threshold

AA®190 TB Door

Typical Elevations

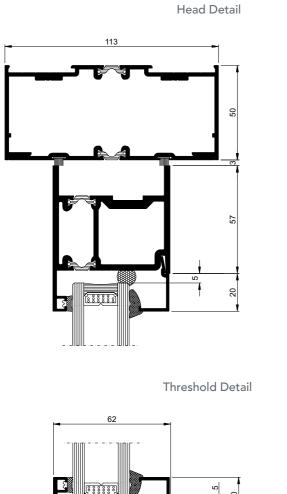
Full details can be downloaded from our website www.kawneer.co.uk



	Website CAD ref. no.				
	Round Finger Guard	Flat Finger Guard			
	H1 02.01	H2 02.01			
d	H1 03.01, H1 04.01	H2 03.01, H2 04.01			
	H1 05.01	H2 05.01			
	H1 07.01	H2 07.01			
e	H1 08.01, H1 13.01	H2 08.01, H2 11.01			
e	H1 09.01, H1 11.01	H2 09.01, H2 12.01			
	H1 12.01, H1 14.01				
	H1 15.01, H1 16.01				
Stile	H1 10.01	H2 10.01			
	Butt Hinge Open-in	Butt Hinge Open-out			
	H3 02.01, H3 11.01	H4 02.01, H4 11.01			
d	H3 03.01, H3 04.01	H4 03.01, H4 04.01			
	H3 05.01, H3 06.01	H4 05.01, H4.06.01			
	H3 07.01	H4 07.01			
ile	H3 08.01, H3 12.01	H4 08.01, H4 12.01			
e	H3 09.01, H3 13.01	H4 09.01, H4 13.01			
Stile	H3 10.01	H4 10.01			
	Auto Slide				
	H5 02.01				
d	H5 03.01, H5 04.01				
	H5 05.01				
	H5 07.01				
	H5 08.01				
e	H5 09.01				
Stile	H5 10.01				

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

Finger Guard Pivot Door



88888 56.6 15 20 114



H1 02.01 Viewed Externally

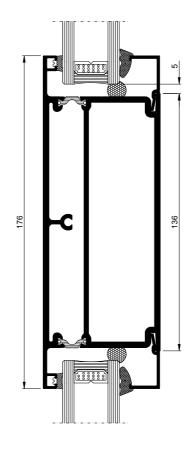
H1 03.01 Viewed Externally

AA®190 TB Door

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

Finger Guard Pivot Door

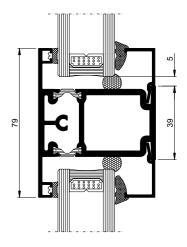
Midrail Options





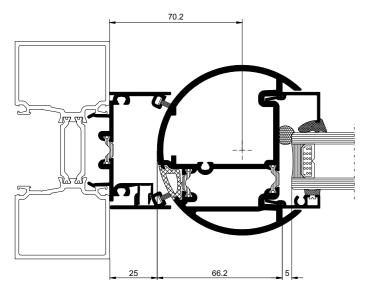
Viewed Externally





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)



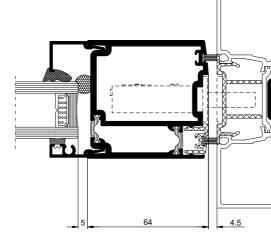
H1 08.01 Viewed Externally

AA®190 TB Door

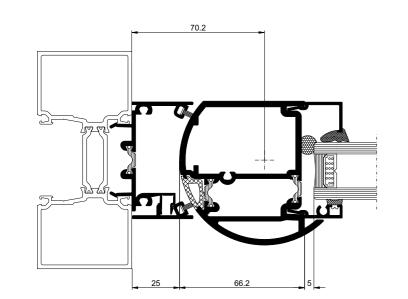
Full details can be downloaded from our website www.kawneer.co.uk

Finger Guard Pivot Door

Jamb Detail (Lock Stile)

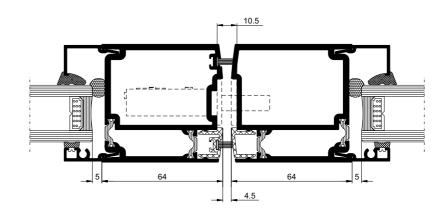


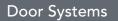
Double Door (Meeting Stile)





H2 08.01 Viewed Externally











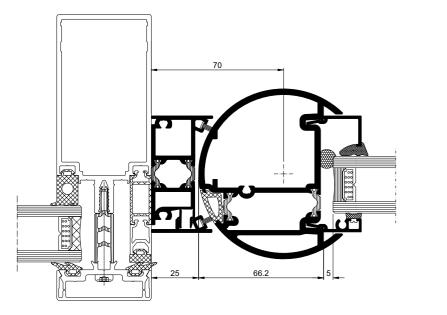
H1 09.01 Viewed Externally



H1 10.01 Viewed Externally

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

Finger Guard Pivot Door



Jamb Detail - Curtain Wall Adaptor

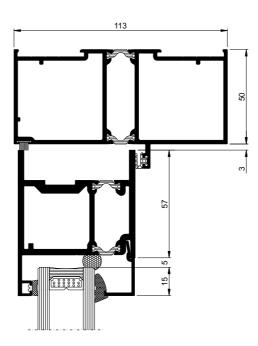


H1 13.01 Viewed Externally AA[®]190 TB Door

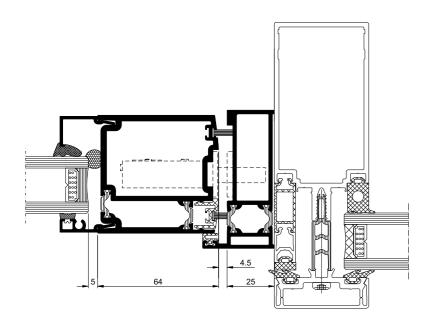
Full details can be downloaded from our website www.kawneer.co.uk

Butt Hinge Door

Head Detail (Open Out)







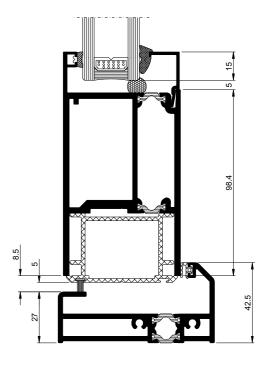


Viewed Externally



H4 02.01 Viewed Externally





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

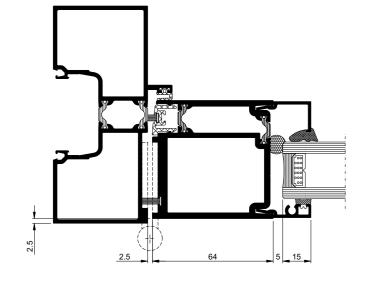
Door Systems



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

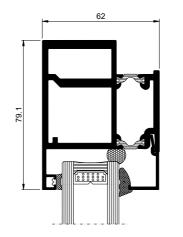
Auto Slider

Head Rail





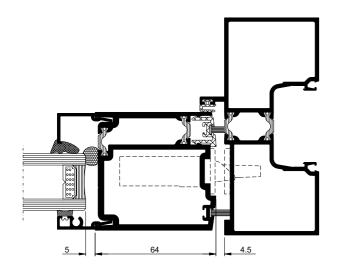
H4 08.01 Viewed Externally

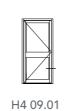


Threshold

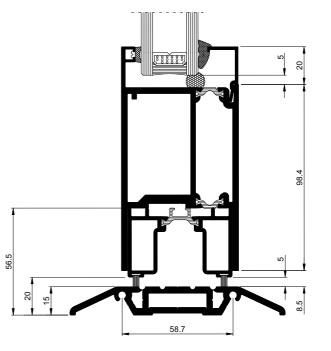
Jamb Detail - Lock Stile (Open Out)

Jamb Detail - Hinge Stile (Open Out)





Viewed Externally









H5 02.01 Viewed Externally



H5 03.01 Viewed Externally

AA®545 Swing Door

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.

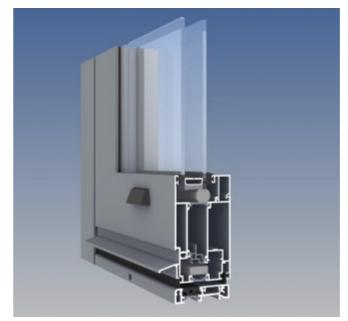
Security*

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





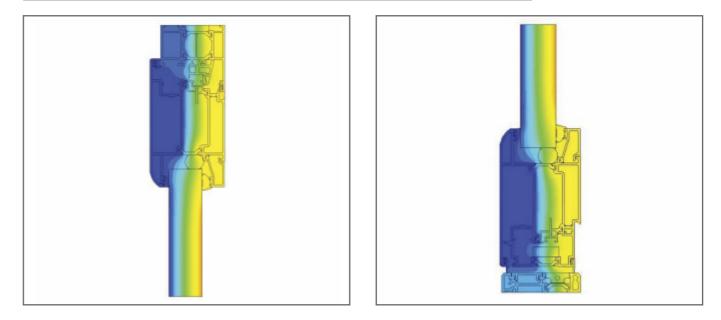
AA®545 Swing Door (Low Threshold Option)

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 Ug W/m²K		
Whole Door Uw	1.1 W/m²K	0.6 W/m²K	
	1.61 W/m²K	1.29 W/m²K	



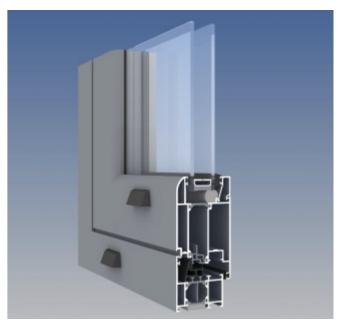
Independently Weather Performance Tested to BS 6375-1: 2015

	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.





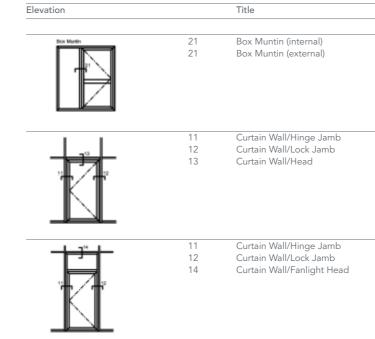
AA®545 Swing Door - Softline Option (Frame All Around Option)

AA®545 Swing Door

Typical Elevations

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

Elevation		Title	Website CAD ref. n	0.
			Open-in	Open-out
- E	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
	4	Lock Jamb	H1 08.01	H2 08.01
	5	Midrail	H1 09.01	H2 09.01
لح حا	22	Hinge Jamb (Finger Guard)	H1 32.01, H1 33.01, H1 34.01	H2 32.01, H2 33.01, H2 34.01
2 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
TAT NT	3	Hinge Jamb	H1 07.01	H2 07.01
	5	Midrail	H1 09.01	H2 09.01
madan yan	6	Meeting Stile	H1 10.01	H2 10.01
Patin-	15	Head	H1 21.01	H2 21.01
Softine	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
° m / m °	18	Lock Jamb	H1 26.01	H2 26.01
Z -19	19	Midrail	H1 27.01	H2 27.01
7				
الخيها				
Softine	15	Head	H1 21.01	H2 21.01
15 0010110	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
▝╋╱╺╋╹╲╋╹	17	Midrail		
	20		H1 27.01	H2 27.01
midne spin	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
ita i	3	Hinge Jamb	H1 07.01	H2 07.01
	5	Midrail	H1 09.01	H2 09.01
JIZIN II	6	Meeting Stile	H1 10.01	H2 10.01
TATIN	7	Fanlight Jamb	H1 11.01	H2 11.01
	8	Door Head/Fanlight Transom	H1 12.01	H2 12.01
\sim				
	3	Hinge Jamb	H1 07.01	H2 07.01
₩	7	Fanlight Jamb	H1 11.01	H2 11.01
	8	Door Head/Fanlight Transom	H1 12.01	H2 12.01
h ∕∎e	9	Coupled Flag Frame/Lock Jamb	H1 13.01	H2 13.01
42				
2	7	Fanlight Jamb	H1 11.01	H2 11.01
	8	Door Head/Fanlight Transom	H1 12.01	H2 12.01
. 7	9	Coupled Frame/Lock Jamb	H1 13.01	H2 13.01
I¶T∕ A I	10	Coupled Frame/Hinge Jamb	H1 14.01, H1 15.01	H2 14.01, H2 15.01





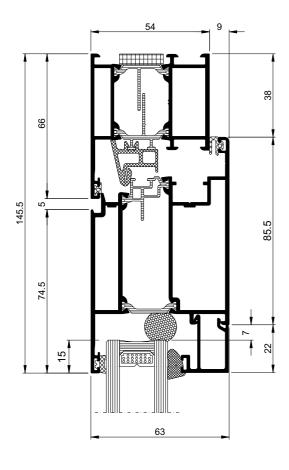
Website CAD r	ef. no.
Open-in	Open-out
H1 29.01	H2 29.01
H1 30.01, H1 31.01	H2 30.01, H2 31.01
H1 16.01, H1 17.01	H2 16.01, H2 17.01
H1 18.01	H2 18.01
H1 19.01	H2 19.01
H1 16.01, H1 17.01	H2 16.01, H2 17.01
H1 18.01	H2 18.01
H1 20.01	H2 20.01

AA[®]545 Swing Door

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

Inward Opening

Head Detail





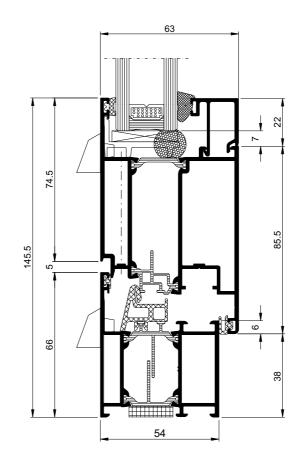
H1 03.01 Viewed Externally

AA[®]545 Swing Door

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

Inward Opening

Rebated Threshold

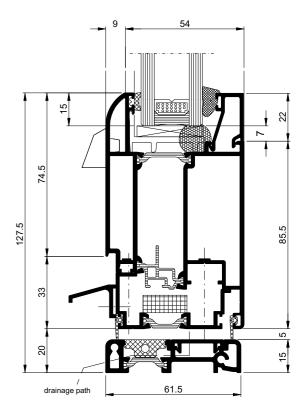




H1 06.01 Viewed Externally









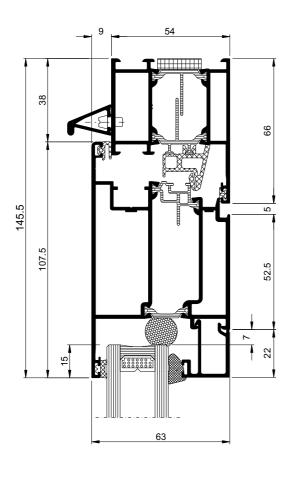
H1 22.01 Viewed Externally

AA[®]545 Swing Door

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

Outward Opening

Head Detail





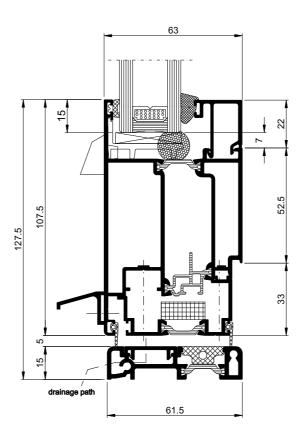
H2 03.01 Viewed Externally

AA[®]545 Swing Door

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

Outward Opening

Low Threshold



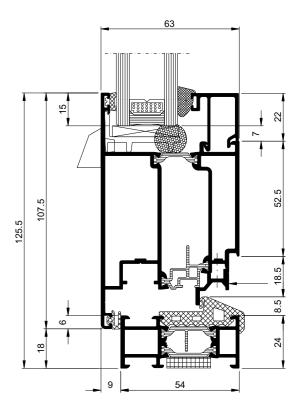


H2 04.01 Viewed Externally





Barrier Free Threshold





H2 05.01 Viewed Externally

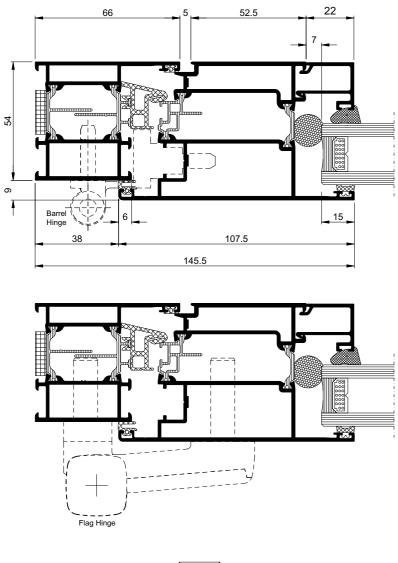
29

AA[®]545 Swing Door

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

Outward Opening

Hinge Jamb Details





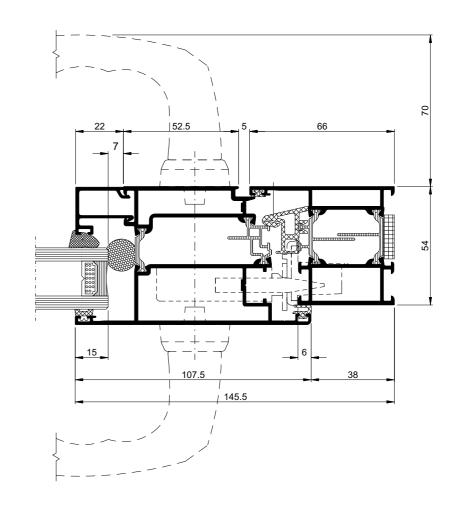
H2 07.01 Viewed Externally

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





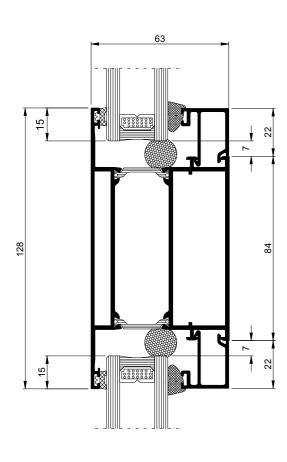


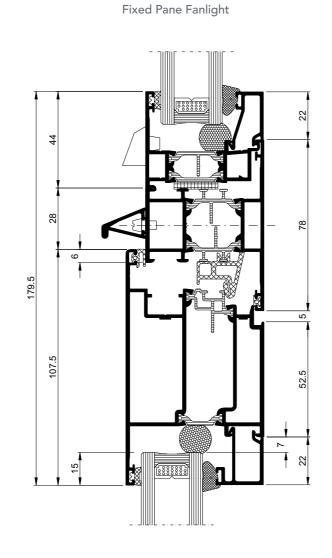
AA®545 Swing Door

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

Outward Opening

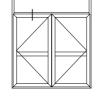
Midrail Detail







H2 09.01 Viewed Externally



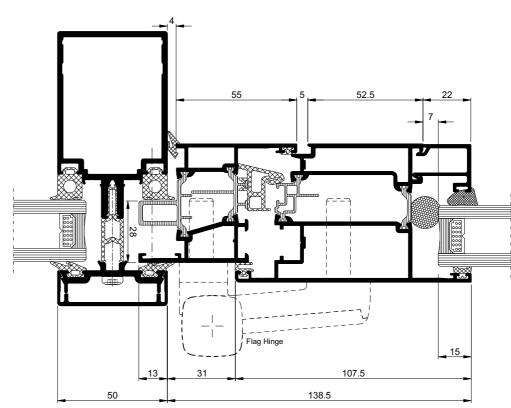
H2 12.01 Viewed Externally

AA®545 Swing Door

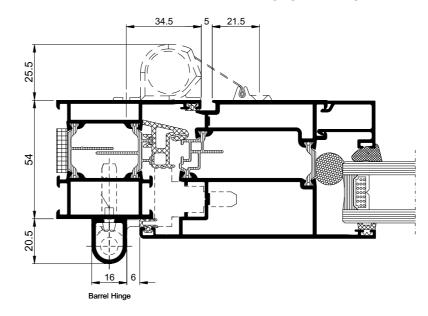
Full details can be downloaded from our website www.kawneer.co.uk

Outward Opening

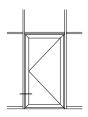
Curtain Wall Hinge Jamb Detail



Fingerguard – Hinge Jamb Detail







H2 17.01 Viewed Externally



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.

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.

A range of suited handles are available for our AA®720 Doors, see pages 6 and 7.

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

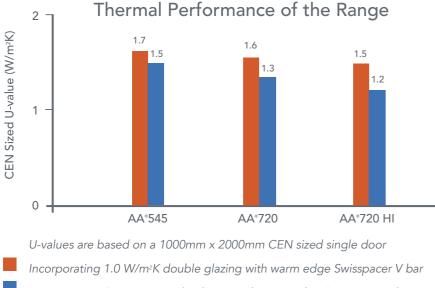
Glazing and panels up to 56mm thickness can be accommodated enabling the use of triple glazing for when there is a requirement for the very highest thermal and acoustic performance.

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.





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

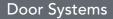
Product Selector

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)	•	٠	
Smoke Protection (DIN EN 1634-3)	-	-	٠
Fire Protection (DIN EN 1634-1)	-	-	El ₂ 30
Design Variants			
Standard	٠	٠	٠
Softline/Design – Rounded Contours	٠	٠	
Renovation – Angular Contours	٠	٠	
Panel Door	٠	٠	
Configurations			
Inward Opening			
Single	•	٠	٠
Double	•	٠	٠
Outward Opening			
Single	•	•	•
Double	•	٠	٠
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	•	•	٠
Concealed Hinges	٠	٠	
Barrel Hinges	٠	٠	٠
Thermally Broken Threshold	•	•	٠
Fire Escape (DIN EN 179)	٠	•	٠
Anti-Panic (DIN EN 1125)	٠	٠	٠
Durable Function (EN 1191)	Heavy Duty	Heavy Duty	Heavy Duty
Suited Handle Options‡	•	•	

* 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

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 ‡ For the Suited Handle Options, see pages 6 and 7





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 4. 23 5 5 2, 12 2, 12	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
		1 2 3 4 5 7 8 9 10	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
		1 2 4 5 8 9 10 11	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
		2 10 13 14 15 16 17	Special Door Frame Jamb Door Stile/Side Light Special Muntin		H53-1, H53-5, H53-7 H53-8, H53-9 H51-45 H51-46 H51-47 H51-48 H51-49



K

Elevation

Single Leaf Door

Double Leaf Door

Title	Website CAD ref. no	р.
O	pen-in	Open-out
reshold	H53-2, H53-6, H53-7	H53-1, H53-5, H53-7
eeting Stile	H51-22, H51-32	H51-22, H51-23
le Light Frame Section	H51-20	H51-20
le Light Frame Head Section	H51-20	H51-20
de Light Threshold	H53-8, H53-9	H53-8, H53-9
oor Stile/Side Light Muntin	H51-26, H51-34	H51-24
oor Head/Fanlight Muntin	H51-27, H51-35	H51-25
nlight Head	H51-28	H51-28
nlight Muntin/Vent	H51-29	H51-29
delight Muntin	H51-30	H51-30
-		

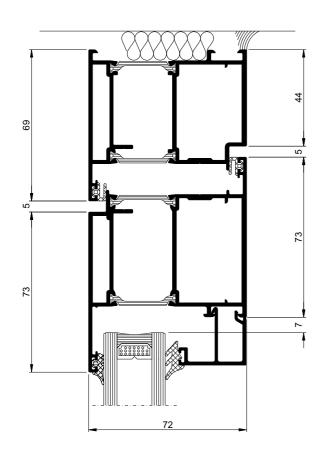
ad	H55-23
eshold	H55-24, H55-25, H55-26
nb	H55-23

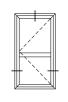
ad	H61-11, H61-12
nb	H61-11, H61-12
drail	H61-16
reshold	H63-1, H63-2, H63-5

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

Inward Opening

Head Detail





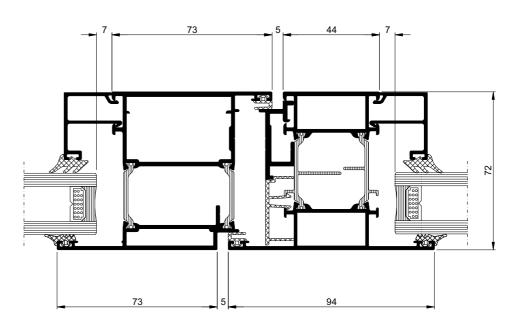
H51-11 Viewed Externally

AA®720 Door Systems

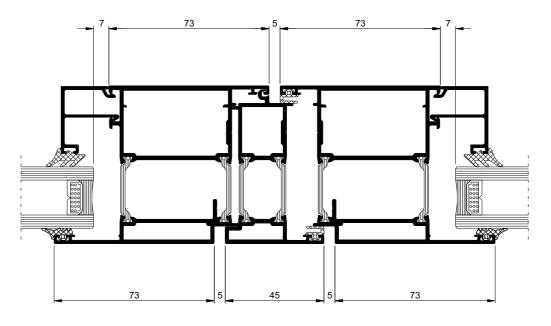
Full details can be downloaded from our website www.kawneer.co.uk

Inward Opening

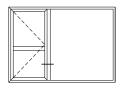
Standard Door Side Light



Standard Door Meeting Stile







H51-17 Viewed Externally

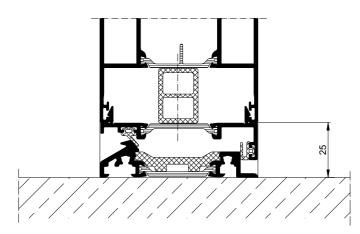


H51-23 Viewed Externally

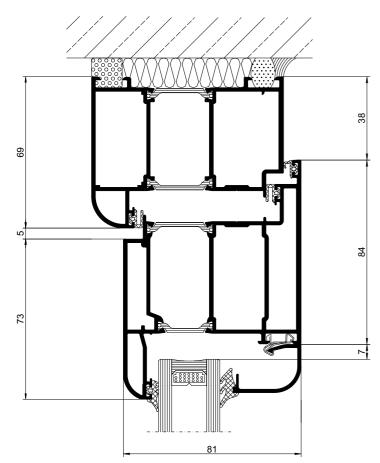
Full details can be downloaded from our website www.kawneer.co.uk

Inward Opening

Standard Door Threshold



Design Door Head Detail





H53-01

Viewed Externally

H61-11 Viewed Externally

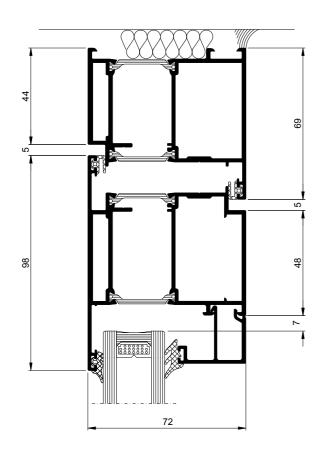


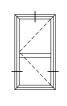


Full details can be downloaded from our website www.kawneer.co.uk

Outward Opening

Head Detail



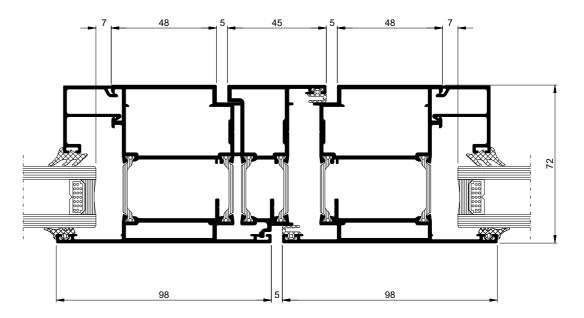


H51-12 Viewed Externally

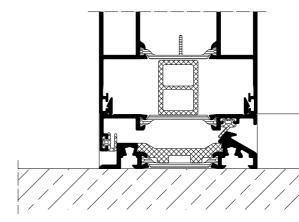
AA®720 Door Systems

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

Outward Opening



Standard Door Threshold

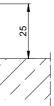








H51-32 Viewed Externally



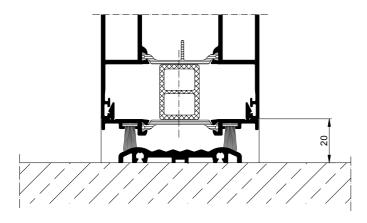


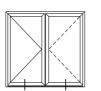
H53-02 Viewed Externally

AA®720 Door Systems Full details can be downloaded from our website www.kawneer.co.uk

Outward Opening

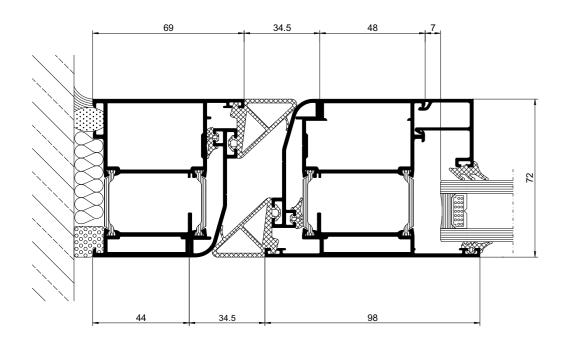
Standard Door Low Threshold





H53-07 Viewed Externally

Finger Guard Door Hinge Jamb





H55-14 Viewed Externally





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

BS 4873 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 guality 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.



Door Systems

