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- Finishes
- Door Systems
- 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
- Fire Resistant Systems
- Suited Handle Range
- Sustainability
- Maintenance and Cleaning
- Education
- Residential
- Perspectives
- The Architects Guide to Aluminium in Building

Front Cover: Associated British Foods Regional HQ, Peterborough
Architect: CPMG Architects
Photo: Martine Hamilton Knight

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SLIDING SOLUTIONS





One The Elephant, London, SE1
Architect: Squire & Partners
Photo: James Balston

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Sliding Solutions Product Selector

	AA®3720 Folding/Sliding Door	AA®3572 Lift/Slide Door	AA®3110 Horizontal Slider	AA®3610/AA®3610LS Vertical Slider
Applications				
New build	■	■	■	■
Refurbishment	■	■	■	■
Key Features				
BRE Green Guide Rating°	A			
Optimum ventilation	■	■	■	■
Dual colour option	■	■	■	■
Punched openings	■	■	■	■
Triple Glazing	■+	■+		
Bead glazing	■	■		■
Wrap around glazing			■	
100mm restriction			■	■
Choice of Panel/Sash	■		■	■
Trickle ventilation	■			■
Suites with AA®100/AA®110 curtain walling	□	□	□	■
Suites with AA®720 Range	■	■		
Suites with 451PT framing	■	■		■
Suited Handle Options‡	■	■		
Performance				
Weather performance (BS 6375)	■	■	■	■
Security to PAS 24:2016		■		■
Document F compliant*†	■	■	■	■
Document L compliant†	■	■	■	■
Acoustic tested to BS EN ISO 10140-2: 2010		■		
Accessories				
Locking handle	■	■	■	■
Espagnolette locking			■	
Multi-point locking	■	■	■	
Releasable and fixed restrictors available			■	■
Window Types				
Horizontal Sliding	■	■	■	
Vertical Sliding				■

Notes:
* When fitted with trickle vent
† Dependant on window size and configuration
+ Optional/Limited
° Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A for non-domestic schemes. www.thegreenguide.org.uk Element Number 1231500007
□ Subject to detail/assessment
‡ Suited handles available for the AA®3720 Folding/Sliding Door and the AA®3572 Life/Slide 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 Tiltturn 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:



Internal Door Handle



Standard Door Handle



Internal Handle

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:

For the full range of Suited Handle Options please see our Suited Handle Range Brochure



Internal Door Handle



Internal Handle



Internal Handle

K-Vesta Product Selector

Name	AA®720 Casement	AA®720 SL Casement	AA®720 Tiltturn	AA®720 Door	AA®3720 Bifold Door	AA®3572 Lift/Slide Door
TBT Handle - Non Locking			✓			
TBT Handle - Lockable			✓			
Espagnolette Window Handle Lockable	✓	✓				
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				✓	✓	
External Door Handle on Short Backplate					✓	
Internal Door Handle				✓	✓	
External Door Handle					✓	
External Door Handle without Cylinder Hole (a=21.5mm)					✓	
External Door Handle				✓		
Bifold Shootbolt Lever					✓	

K-Duro Product Selector

Name	AA®720 Tiltturn	AA®720 Door	AA®3720 Bifold Door	AA®3572 Lift/Slide Door
Finger Pull				✓
Window Handle with Cylinder	✓			
Window Handle with Spindle 25mm	✓			
Internal Door Handle		✓	✓	
External Door Handle			✓	
Internal Door Handle		✓	✓	
External Door Handle			✓	
External Door Handle without Cylinder Hole			✓	
External Door Handle		✓		
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 unhandled 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.



AA®3720 Folding/Sliding Door

Introduction

The AA®3720 Folding/Sliding Door is a solution for projects that demand the highest levels of thermal and weathering performance at a competitive price.

The AA®3720 uses advanced thermal break technology, ensuring thermal efficiency and full compliance with Approved Document L. The polyamide thermal break allows for single and dual colour options. The use of extruded gasket profiles and drain and ventilate strategy enable the system to achieve its weathering performance.

The AA®3720 provides a door with market leading capabilities, equally suited to the discerning home owner or installed in commercial premises that wish to enhance their environment.

Our product development team focused on market demands to produce a door with high performance and innovation offering:

- Aesthetic Appeal
- Especially Slim Sightlines
- Simplified Fabrication
- Patented Features

Product Features and Benefits

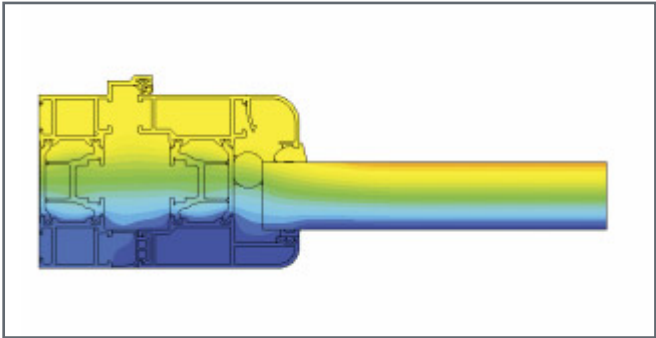
- Highly insulated profiles with U_f-values as low as 1.8 W/m²K for frame/vent combinations - uw-values as low as **1.0 W/m²K** at the maximum panel size (using 0.7 W/m²K triple glazing and warm edge technology)
- A range of door configurations in either open-in or open-out stack variants - total flexibility for all project applications

- Panel sizes upto 1200mm(W) & 2930mm(H)** - Can achieve solutions in the most demanding of applications
- Slim sightlines - no floating mullions - Reduced metal content and increased fabrication efficiency
- Stainless steel rollers for smooth and effortless operation
- Choice of threshold options - continuity between internal and external spaces. Rebated, low and sunken track options to add further design capability
- Innovative design features - patented technology providing premium product performance
- Suites with the AA®720 Window Series - total design flexibility offering total project solutions
- Suited Handle Options available, see pages 6 and 7

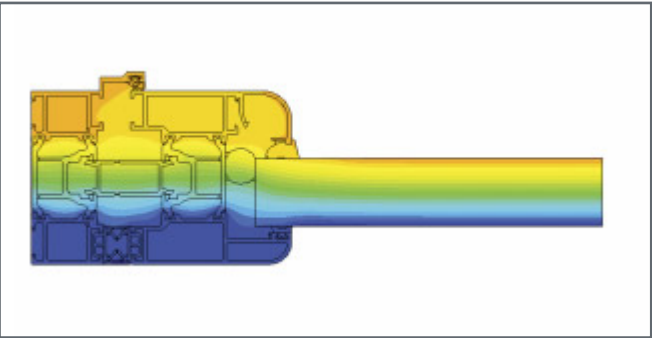
** Dependant upon glass size and weight

Construction

Weathering is achieved by the use of EPDM gaskets and woolpile. The door is designed to be pressure equalised and fully drained.



Standard Thermal Variant - Open Out



Enhanced Thermal Variant - Open Out

Enhanced Thermal Option

The addition of simple thermal shields divides the thermal chambers further to improve the thermal performance with minimal additional cost or fabrication. Enhancements of 0.1 W/m²K are possible with this addition.

Independently Weather Performance Tested to BS 6375-1: 2015

	Air Infiltration BS EN 12207: 2000	Watertightness BS EN 12208: 2000	Wind Resistance BS EN 12210: 2000
AA®3720 Folding/Sliding Door	Class 3 (600 Pa)	Class E750 (750 Pa)	Class A5 (1600 Pa)

All Windows comply with Operation and Strength Test BS 6375 Pt2: 2015

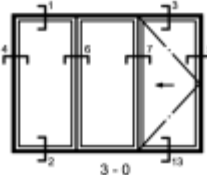
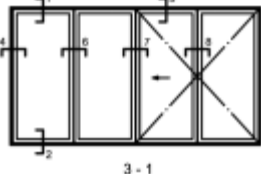
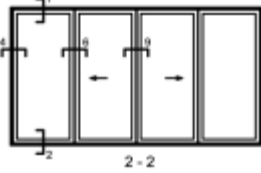
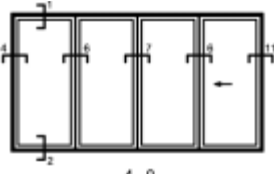
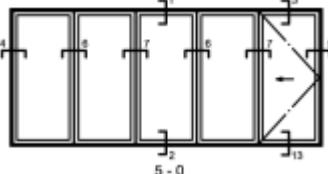
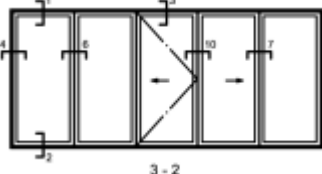
Details of the Kawneer product tests are available from the Technical Services Department at Runcorn.

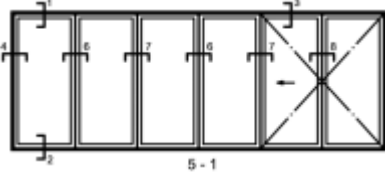
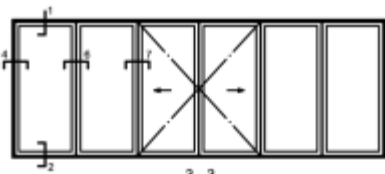


AA®3720 Folding/Sliding Door Applications

Typical Elevations

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

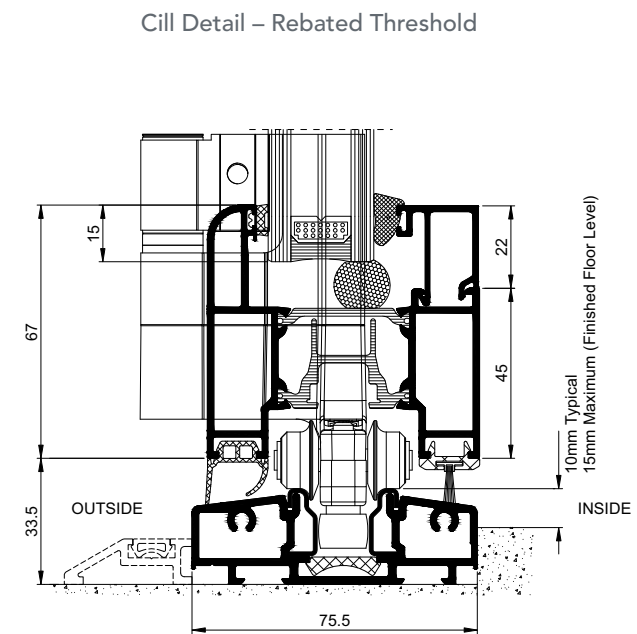
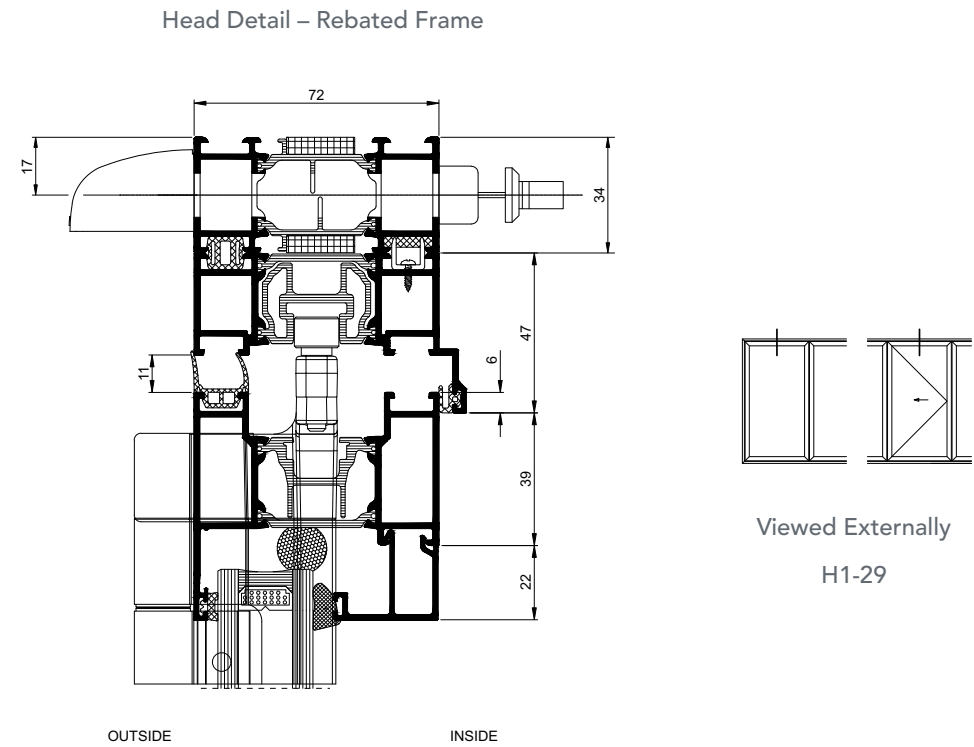
Elevation	Title		Website CAD ref. no.	
			Open-out	Open-in
	1, 3 2 4 5 6 7 13	Head Threshold Frame, panel with hinge Frame, panel with latch lock / handle Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge Cill arrangement	H1 03.01, H1 07.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 10.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01 H1 24.01	H2 03.01, H2 07.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 10.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01
	1, 3 2 4 6 7 8	Head Threshold Frame, panel with hinge Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge Panel / panel, latch lock / handles / shoot bolt	H1 03.01, H1 07.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01 H1 15.01	H2 03.01, H2 07.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01 H2 15.01
	1 2 4 6 9	Head Threshold Frame, panel with hinge Internal hinge / handle with shoot bolt Panel / panel, latchless lock	H1 03.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 16.01, H1 17.01	H2 03.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 11.01, H2 12.01 H2 16.01, H2 17.01
	1 2 4 6 7 11	Head Threshold Frame, panel with hinge Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge Frame / panel, latchless lock	H1 03.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01 H1 20.01, H1 21.01	H2 03.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01 H2 20.01, H2 21.01
	1, 3 2 4 5 6 7 13	Head Threshold Frame, panel with hinge Frame, panel with latch lock / handle Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge Cill arrangement	H1 03.01, H1 07.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 10.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01 H1 24.01	H2 03.01, H2 07.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 10.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01
	1, 3 2 4 6 7 10	Head Threshold Frame, panel with hinge Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge Panel / panel, latch lock, roller set single	H1 03.01, H1 07.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01 H1 18.01, H1 19.01	H2 03.01, H2 07.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01 H2 18.01, H2 19.01

Elevation	Title		Website CAD ref. no.	
			Open-out	Open-in
	1, 3 2 4 6 7 8	Head Threshold Frame, panel with hinge Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge Panel / panel, latch lock / handles / shoot bolt	H1 03.01, H1 07.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01 H1 15.01	H2 03.01, H2 07.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01 H2 15.01
	1 2 4 6 7	Head Threshold Frame, panel with hinge Internal hinge / handle with shoot bolt Panel / panel, roller set double & hinge	H1 03.01, H1 25.01 H1 04.01, H1 05.01, H1 06.01 H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 13.01, H1 14.01	H2 03.01 H2 04.01, H2 05.01, H2 06.01 H2 08.01, H2 09.01 H2 11.01, H2 12.01 H2 13.01, H2 14.01
	4 6 15	Frame, panel with hinge Internal hinge / handle with shoot bolt Panel corner post 90°	H1 08.01, H1 09.01 H1 11.01, H1 12.01 H1 26.01	



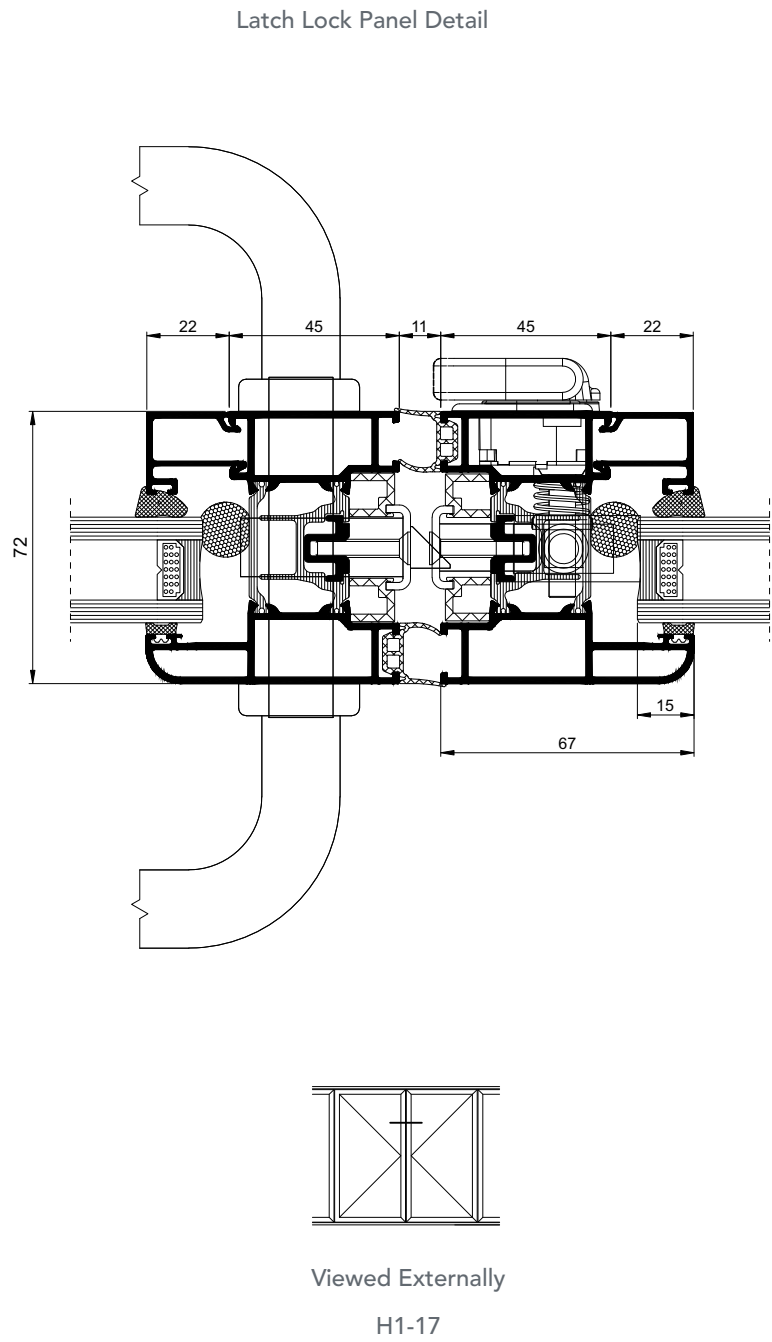
AA®3720 Folding/Sliding Door

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



AA®3720 Folding/Sliding Door

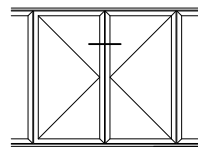
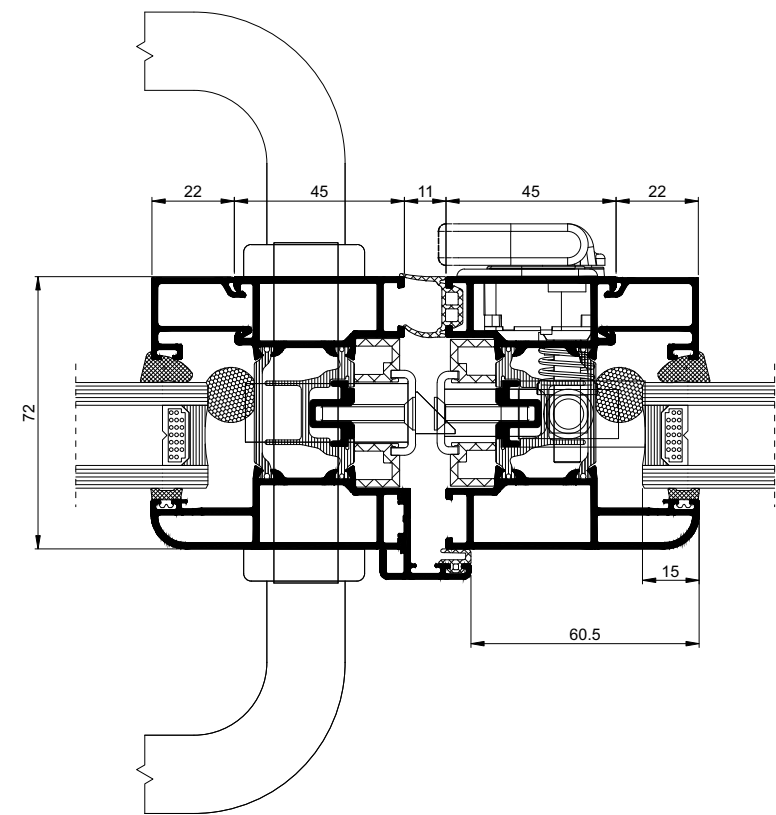
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AA®3720 Folding/Sliding Door

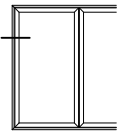
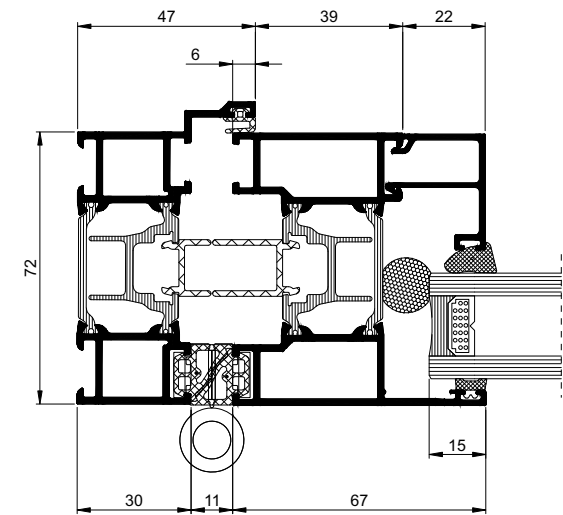
Full details can be downloaded from our website www.kawneer.co.uk

Shoot Bolt Locking Panel Detail



Viewed Externally
H1-18

Jamb Detail



Viewed Externally
H1-10



AA®3572 Lift/Slide Door

Introduction

The AA®3572 Lift/Slide Door is a solution for projects that demand the highest levels of thermal and weathering performance.

The AA®3572 thermally insulated system delivers optimum levels of quality and performance with the lift/slide technology providing effortless operation enabling maximum panel sizes up to 3m x 3m with maximum weights up to 400kg.

Robust profiles with high insulation values enable large areas of glass for freedom of design. The option of slim meeting stiles allow the system to remain unobtrusive. As a sliding system, it is an ideal space saving solution where safety is a consideration and projecting swing doors are undesirable.

The double EPDM gasket with continuous rebate provides exceptional weathering performance and high levels of sound reduction.

Product Features and Benefits

- Highly insulated profiles with U_f -values as low as 1.8 W/m²K for frame/vent combinations - uw-values as low as **0.8 W/m²K** at the maximum panel size (using 0.6 W/m²K triple glazing and Swisspacer V bar)
- Panel sizes up to 3m x 3m can achieve large, uninterrupted areas of glazing
- Panel weights up to 400kg - can easily accommodate triple and acoustic glazing up to 56mm
- 2 and 3 track options - arrangements with up to 6 panels
- In line sliding operation for safe operation with no interference with internal finishes
- Stainless steel rollers offer smooth and effortless operation
- Low profile thresholds giving continuity between internal and external spaces
- Suites with the AA®720 Window Series and AA®100/AA®110 Curtain Walling Systems with total design flexibility offering total project solutions
- Suited Handle Options available, see pages 6 and 7

Construction

Two track and three track lifting/sliding system. The AA®3572 is a multi-chamber thermally efficient system depending on construction type with 1, 2 or 3 insulation zones and is manufactured from high quality aluminium 6063T6 alloys in accordance with BS EN 12020.

Thermal Performance*

The AA®3572 Lift/Slide Door achieves a Double Glazed U-value of 1.4 W/m²K and a Triple Glazed U-value of 0.83 W/m²K.

** U-values based on 2 pane assembly measuring 2180mm x 2350mm (BS EN: 10077) using 1.1 W/m²K double glazing or 0.6 W/m²K triple glazing with Swisspacer V bar.*

Acoustics**

The AA®3572 Door is independently tested at Vinci to BS EN ISO 10140-2: 2010 R_W (C:Ctr) = 40 (-1-3).

*** Full test reports are available from the Technical Services Department at Runcorn.*

Security***

The AA®3572 Lift/Slide Door has been independently tested to PAS 24:2016 and compliance depends on the door configuration.

**** Does not refer to standard hardware, security hardware required and compliance depends on door configuration*



Independently Weather Performance Tested to BS 6375-1: 2015

	Air Infiltration BS EN 12207: 2000	Watertightness BS EN 12208: 2000	Wind Resistance BS EN 12210: 2000
AA®3572 Lift/Slide Door	Class 4 (600 Pa)	Class 9A (600 Pa)	Class C3 (1200 Pa)

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

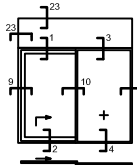
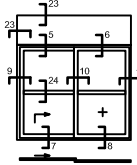
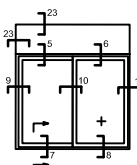
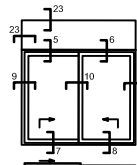
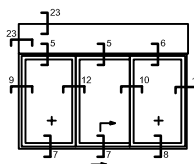
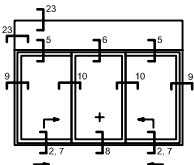
One The Elephant, London, SE1
Architect: Squire & Partners
Photo: James Jones

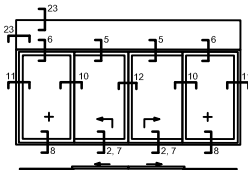
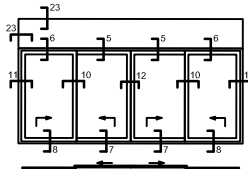
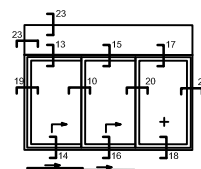
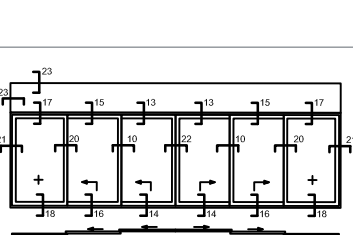


AA®3572 Lift/Slide Door Applications

Typical Elevations

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

Elevation			Title	Website CAD ref. no.
	Scheme A	1	Sliding Vent - Head	H01.04, H03.01
	1 Sliding Panel inside	2	Sliding Vent - Cill	H01.05
	1 Fixed Panel outside	3	Fixed Panel - Head	H01.06
	1 Fanlight (optional)	4	Fixed Panel - Cill	H01.07
		9	Sliding Vent - Lock Jamb	H01.12
		10	Sliding Vent/Fixed Panel Interlock	H01.13
		11	Fixed Panel Jamb	H01.14
	23	Fanlight Frame	H03.02	
	Scheme A	5	Sliding Vent - Head	H01.08, H03.01
	1 Sliding Panel inside (with optional muntin)	6	Fixed Panel - Head	H01.09
	1 Fixed Vent outside (with optional sash transom)	7	Sliding Vent - Cill	H01.10
	1 Fanlight (optional)	8	Fixed Panel - Cill	H01.11
		9	Sliding Vent - Lock Jamb	H01.12
		10	Sliding Vent/Fixed Panel Interlock	H01.13
		11	Fixed Panel Jamb	H01.14
	24	Muntin	H03.03	
	23	Fanlight Frame	H03.02	
	Scheme A	5	Sliding Vent - Head	H01.08, H03.01
	1 Sliding Panel inside	6	Fixed Panel - Head	H01.09
	1 Fixed Vent outside	7	Sliding Vent - Cill	H01.10
	1 Fanlight (optional)	8	Fixed Panel - Cill	H01.11
		9	Sliding Vent - Lock Jamb	H01.12
		10	Sliding Vent/Fixed Panel Interlock	H01.13
		11	Fixed Panel Jamb	H01.14
	23	Fanlight Frame	H03.02	
	Scheme D	5	Sliding Vent - Head	H01.08, H03.01
	1 Sliding Panel inside	6	Fixed Panel - Head	H01.09
	1 Sliding Panel outside	7	Sliding Vent - Cill	H01.10
	1 Fanlight (optional)	8	Fixed Panel - Cill	H01.11
		9	Sliding Vent - Lock Jamb	H01.12
		10	Sliding Vent/Fixed Panel Interlock	H01.13
		11	Fixed Panel Jamb	H01.14
	23	Fanlight Frame	H03.02	
	Scheme G	5	Sliding Vent - Head	H01.08, H03.01
	1 Fixed Vent inside	6	Fixed Panel - Head	H01.09
	1 Sliding Panel inside	7	Sliding Vent - Cill	H01.10
	1 Fixed Vent outside	8	Fixed Panel - Cill	H01.11
	1 Fanlight (optional)	9	Sliding Vent - Lock Jamb	H01.12
		10	Sliding Vent/Fixed Panel Interlock	H01.13
		11	Fixed Panel Jamb	H01.14
	12	Meeting Stile	H01.15	
	23	Fanlight Frame	H03.02	
	Scheme H	2	Sliding Vent - Cill	H01.05
	1 Sliding Panel inside	5	Sliding Vent - Head	H01.08, H03.01
	1 Fixed Vent outside	6	Fixed Panel - Head	H01.09
	1 Sliding Panel inside	7	Sliding Vent - Cill	H01.10
	1 Fanlight (optional)	8	Fixed Panel - Cill	H01.11
		9	Sliding Vent - Lock Jamb	H01.12
		10	Sliding Vent/Fixed Panel Interlock	H01.13
	23	Fanlight Frame	H03.02	

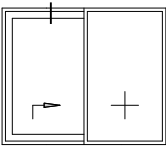
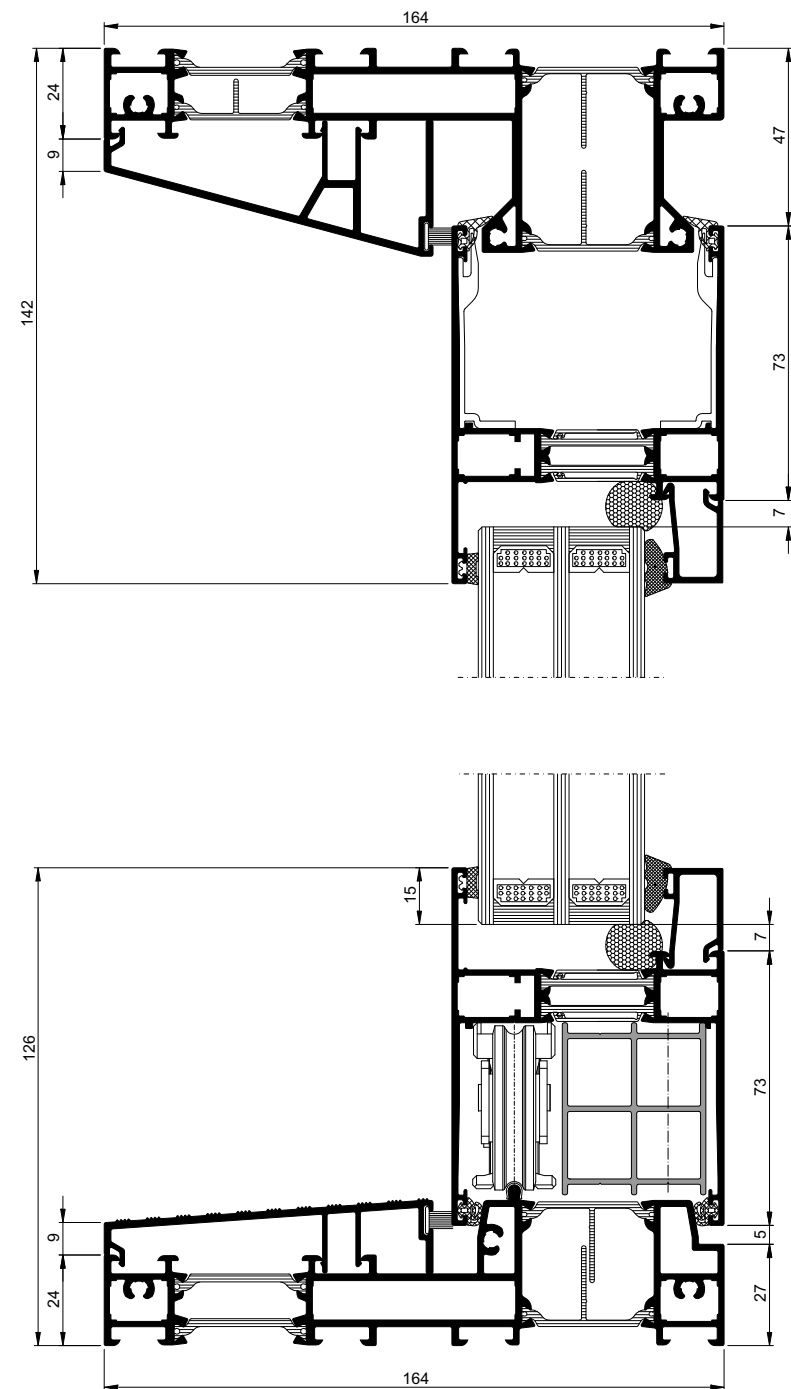
Elevation			Title	Website CAD ref. no.
	Scheme C	2	Sliding Vent - Cill	H01.05
	1 Fixed Vent outside	5	Sliding Vent - Head	H01.08, H03.01
	2 Sliding Panels inside	6	Fixed Panel - Head	H01.09
	1 Fixed Vent outside	7	Sliding Vent - Cill	H01.10
	1 Fanlight (optional)	8	Fixed Panel - Cill	H01.11
		10	Sliding Vent/Fixed Panel Interlock	H01.13
		11	Fixed Panel Jamb	H01.14
	Scheme F	12	Meeting Stile	H01.15
		23	Fanlight Frame	H03.02
	1 Sliding Panel outside	5	Sliding Vent - Head	H01.08, H03.01
	2 Sliding Panels inside	6	Fixed Panel - Head	H01.09
	1 Sliding Panel outside	7	Sliding Vent - Cill	H01.10
	1 Fanlight (optional)	8	Fixed Panel - Cill	H01.11
		10	Sliding Vent/Fixed Panel Interlock	H01.13
	Scheme E	11	Fixed Panel Jamb	H01.14
	1 Sliding Panel inside	12	Meeting Stile	H01.15
	1 Sliding Panel centre	23	Fanlight Frame	H03.02
	1 Fixed Vent outside	10	Sliding Vent/Fixed Panel Interlock	H01.13
	1 Fanlight (optional)	13	Sliding Vent inside - Head	H02.02
		14	Sliding Vent inside - Cill	H02.03
		15	Sliding Vent centre - Head	H02.04
	Scheme L	16	Sliding Vent centre - Cill	H02.05
	1 Fixed Vent outside	17	Fixed Panel outside - Head	H02.06
	1 Sliding Panel centre	18	Fixed Panel outside - Cill	H02.07
	2 Sliding Panels inside	19	Sliding Vent inside - Jamb	H02.10
	1 Sliding Panel centre	20	Sliding Vent/Fixed Panel Interlock	H02.11
	1 Fixed Vent outside	21	Fixed Panel outside - Jamb	H02.12
	1 Fanlight (optional)	22	Meeting Stile	H02.14
	23	Fanlight Frame	H03.02	



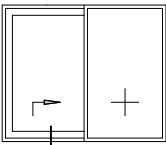
AA®3572 Lift/Slide Door

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

Head and Cill Detail – Scheme A



H01.04

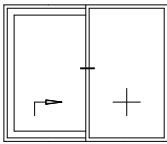
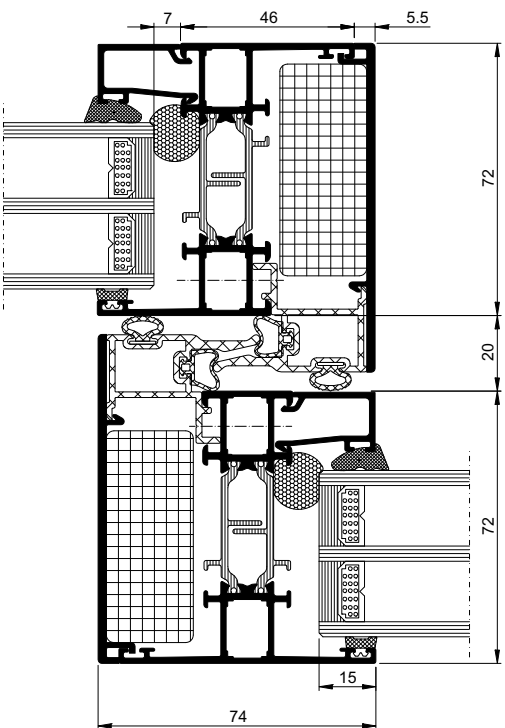


H01.05

AA®3572 Lift/Slide Door

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

Interlock Detail

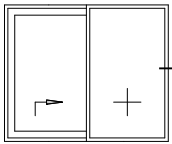
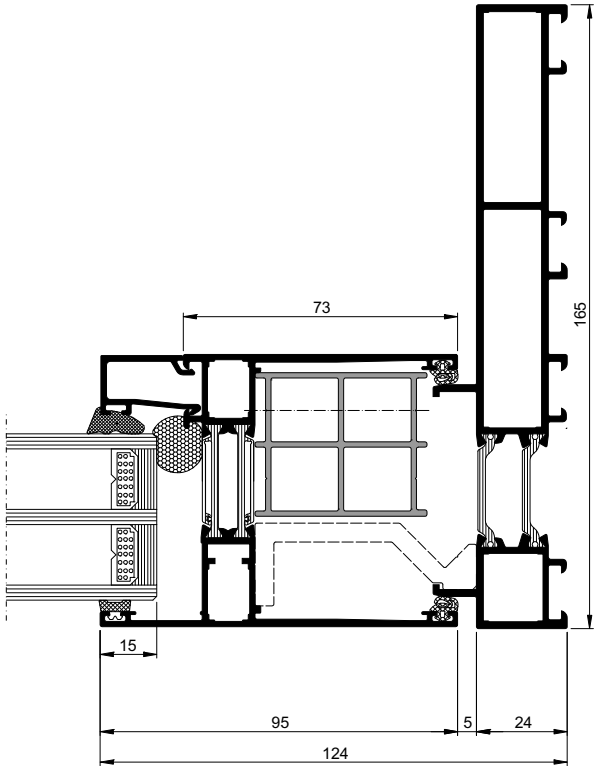
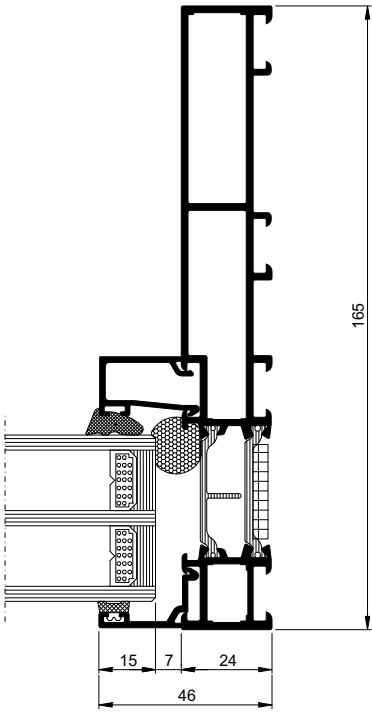


H01.13

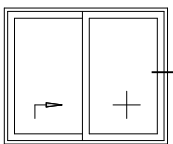
AA®3572 Lift/Slide Door

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

Fixed Panel Options



H01.14



H01.14



Cheltenham Racecourse
Architect: Roberts Limbrick



The Crescent at Donaldson's, Edinburgh
Architect: Richard Murphy Architects
Photo: Photography by ZAC and ZAC



AA®3110 Horizontal Sliding Window

Introduction

The AA®3110 horizontal sliding window is designed to meet the needs of any project that requires maximum ventilation, including general healthcare applications and mental health facilities. The AA®3110 horizontal sliding window has been designed to ensure that the needs of the user are paramount with its easy to operate functions and compliance with the HTM 55 regulations.

The AA®3110 is the product that you can specify with confidence when specifying demanding healthcare projects.

Product Features and Benefits

- Unique perforated wrap around glazing gasket, required when an anti-ligature solution is essential when handling demanding hospital projects
- Stainless steel track with adjustable wheels, offering smooth operation designed with the end user in mind
- Concealed locking mechanism
- Option for operation from both inside and outside offering a project solution for balcony applications
- Double or single sliding including 3 or 4 door and window options offering total flexibility for all project applications
- Self regulation ventilator in line with wind pressure, ideal to maximise air flow and ensure comfort for the occupants
- Dual colour option for specification of a different colour finish inside and outside
- Window when open does not project into the building, ideal when safety is a consideration on a project
- Accommodates glazing up to 33mm. Suitable for specialist and safety glazing and interstitial blinds

- Maximum panel height is 2.7m
- Maximum panel width is approximately 2.0m
- Maximum panel weight is 200kg
- Improved thermal performance can meet current Building Regulations

Construction

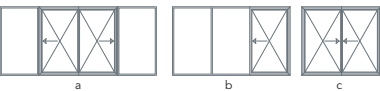
Weathering is achieved by the use of EPDM gaskets and woolpile. The window is designed to be pressure equalised and fully drained.

Configurations

The AA®3110 offers various design configurations, below are a few typical examples:



Sliding sash/fixed frame



- a. Sliding sash/fixed frame 4 part
- b. Sliding sash/fixed frame with side light
- c. Sliding sash

Independently Weather Performance Tested to BS 6375-1: 2015

	Air Infiltration BS EN 12207: 2000	Watertightness BS EN 12208: 2000	Wind Resistance BS EN 12210: 2000
AA®3110 Horizontal Slider	Class 3 (600 Pa)	Class 9A (600 Pa)	Class B5 (2000 Pa)

Performance is dependent on frame and panel combinations.

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

AA®3110 Horizontal Sliding Window Applications

Typical Elevations

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

Elevation	Title	Website CAD ref. no.
	1, 2, 3, 4 Sliding sash/fixed frame 2-part single track - inside slide	H01.01
	5, 6, 6a, 7 Sliding sash/fixed frame 2-part single track - inside slide	H01.01
	1, 2, 3, 4, 6, 7 Sliding sash/fixed frame 3-part single track - inside slide	H04.01
	1, 2, 3, 4, 6, 7, 8 Sliding sash/fixed frame 3-part single track - inside slide	H05.01
	1, 2, 3, 4, 6, 7, 8, 9 Sliding sash/fixed frame 4-part with meeting stiles single track - inside slide	H07.01
	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 Sliding sash/fixed frame with fan light 2-part single track - inside slide	H09.01
	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 Sliding sash/fixed frame 2-part single track - inside slide over a fixed light	H10.01

Elevation	Title	Website CAD ref. no.
	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 Sliding sash/fixed frame with side light 2-part single track - inside slide	H12.01
	1, 2, 3, 4, 5, 6, 6a, 7 Sliding sash/fixed frame with fixing lugs 2-part single track - inside slide	H13.01
	1, 2, 3, 4, 5, 6, 6a, 7 Sliding sash frame 2-part double track - double slide	H14.01
	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 Sliding sash frame 2-part double track - double slide over fixed light	H15.01
	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 Sliding sash/fixed frame 2-part double track - double slide with fan light	H16.01

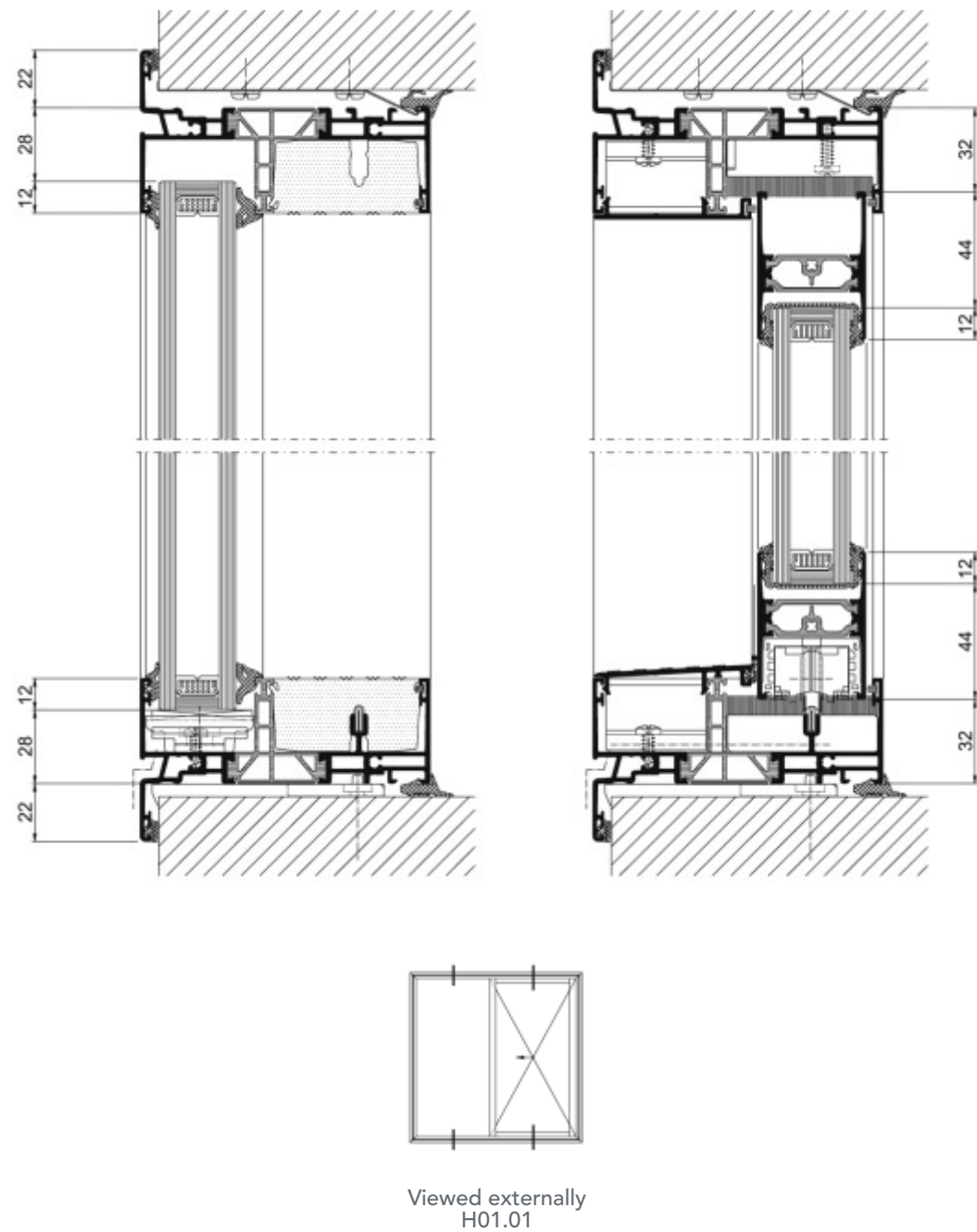


AA®3110 Horizontal Sliding Window

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

Standard Drainage Option

Sash/Fixed Frame 2-Panel / Single Track – Inside Slide

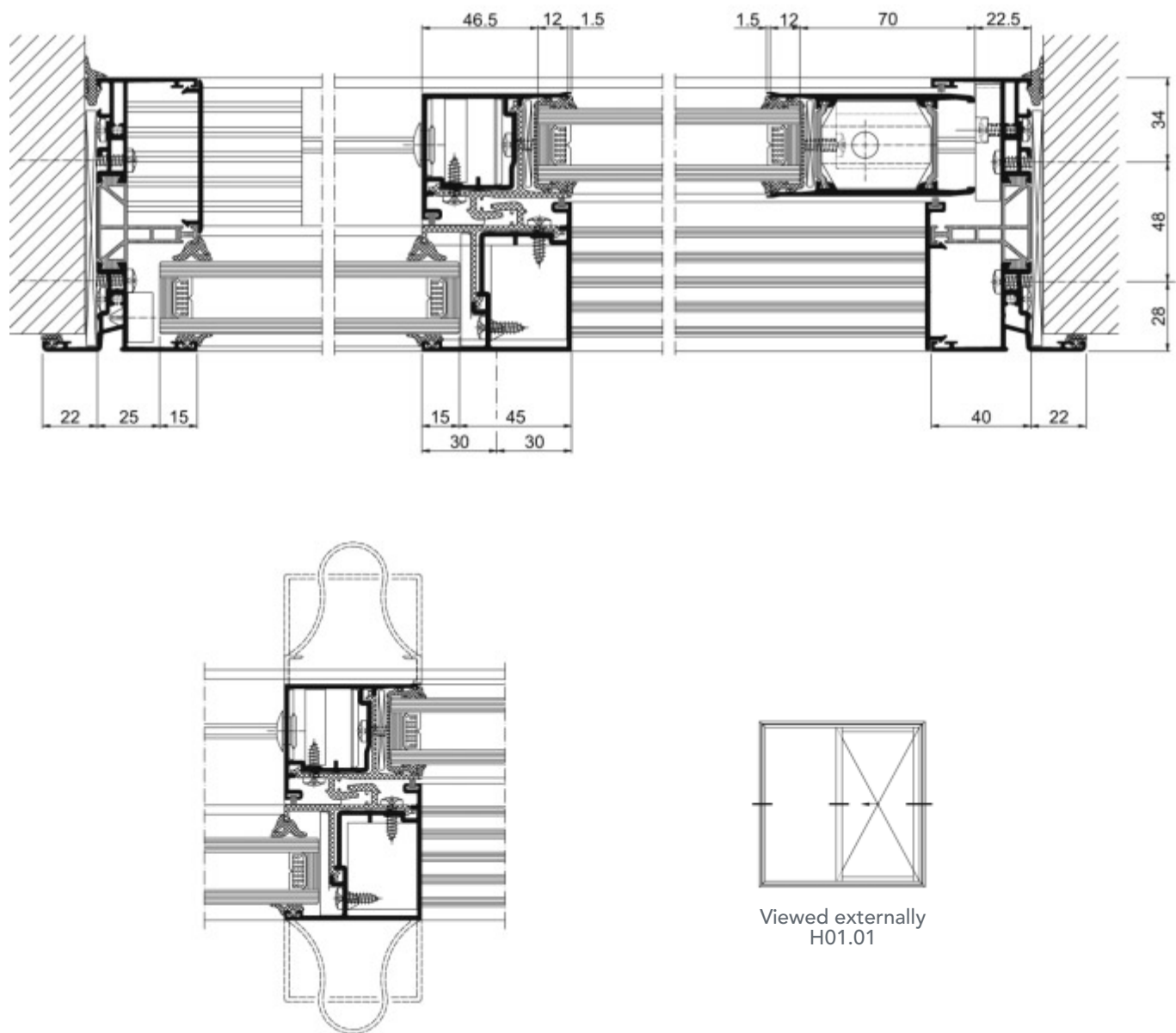


AA®3110 Horizontal Sliding Window

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

Standard Drainage Option

Sash/Fixed Frame 2-Panel / Single Track – Inside Slide

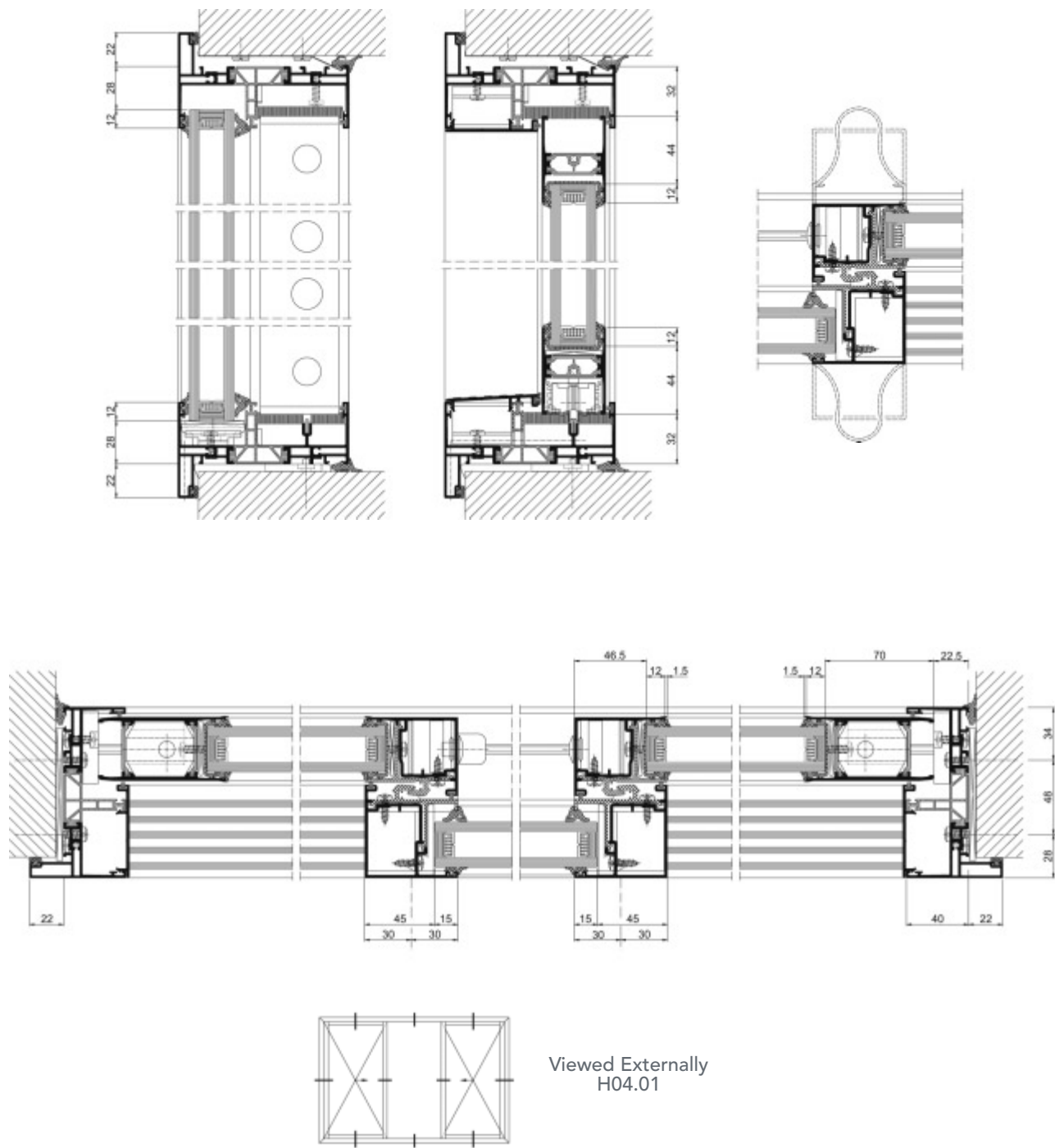


AA®3110 Horizontal Sliding Window

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

Concealed Drainage Option

Sash/Fixed Frame 3-Panel / Single Track – Inside Slide



AA®3110 Window with fixed lights above and below



AA®3610/AA®3610LS Vertical Sliding Windows

Introduction

The AA®3610 and AA®3610LS are the products to specify if maximum ventilation is critical to your project requirements. The ease of operation together with the optimum air flow make these windows ideal for schools and hospitals. The systems offer a fully integrated, flexible thermally broken vertical slider that has been designed with performance and aesthetics in mind.

Thermal insulation is achieved by utilising a unique polyamide thermal break design to give ultimate weather and thermal performance and smooth operation. The AA®3610LS is a unique solution which opens the top and bottom sashes simultaneously allowing stale air out of the top of the window whilst allowing cool fresh air to be drawn in via the bottom.

Product Features and Benefits

- Vertical Sliding window featuring linked, double sliding and fixed lights for total flexibility for all project applications. Punched openings coupled or composite units can be accommodated
- Bead glazing from 24mm-32mm can be accommodated, options to comply with thermal and safety glass
- Option of integral muntin bar can help to replicate traditional wooden sash windows
- Concealed drainage offering better aesthetics
- Option of integral handle pull offering clean aesthetics
- Unique interlock design offering exceptional weathering and thermal performance

- Flush opening with no intrusion into or out of the building with no damage or interference with internal furnishings or blinds and offering added safety in use in ground floor applications
- Suites with Kawneer Curtain Wall and Framing products offering total design flexibility and total project solutions

Robust Solution

The AA®3610LS has been successfully cycle tested to represent over 75 years of use, so you can be sure that when you specify it your maintenance costs will be kept to a minimum.

Construction

Construction of both the AA®3610 and AA®3610LS are square cut screw spline joinery for consistent fabrication.

Weathering is achieved by the use of EPDM gaskets – all with non shrinkage cord. The window is designed to be pressure equalised and fully drained.

Security*

The AA®3610 Vertical Sliding Window has been independently tested to PAS 24:2016.

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



Independently Weather Performance Tested to BS 6375-1: 2015

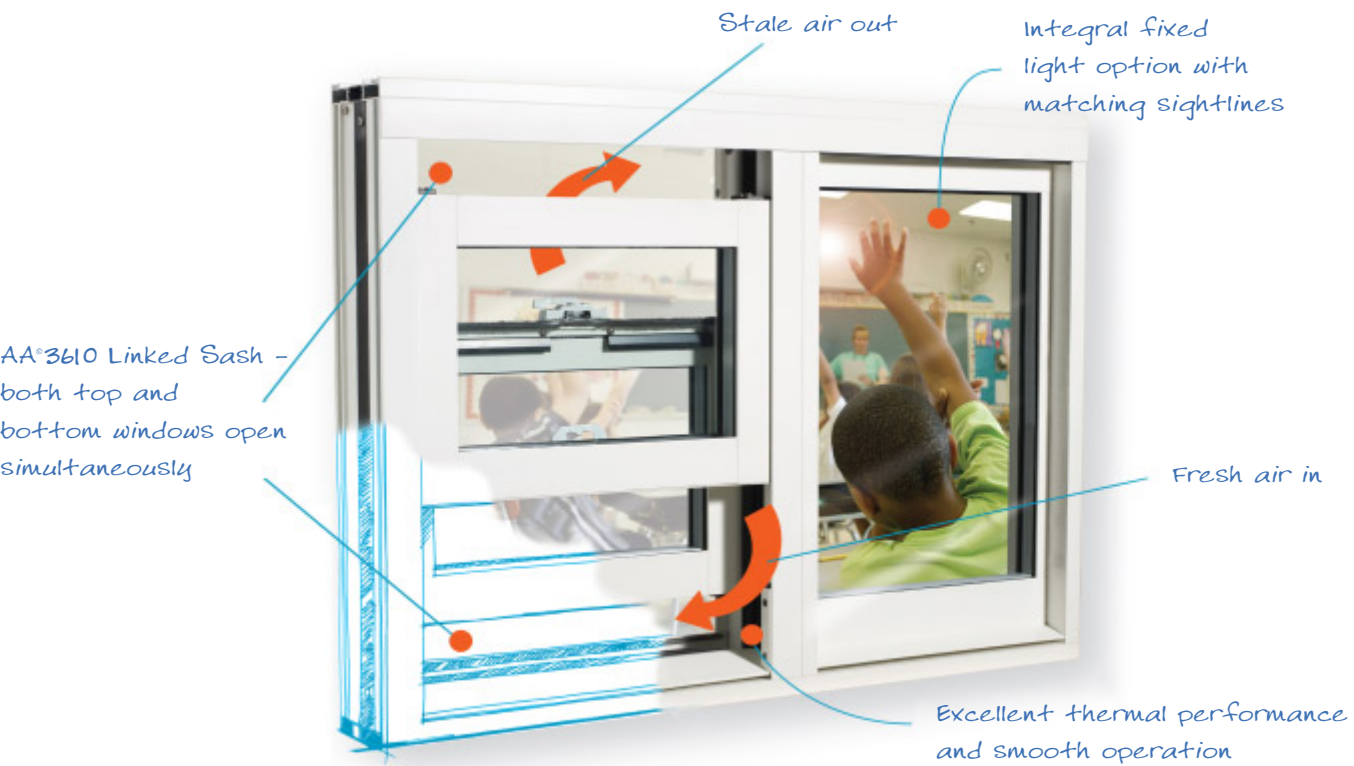
	Air Infiltration BS EN 12207: 2000	Watertightness BS EN 12208: 2000	Wind Resistance BS EN 12210: 2000
AA®3610 Vertical Slider	Class 3 (600 Pa)	Class 9A (600 Pa)	Class B5 (2000 Pa)

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

Product Selector

Performance	AA®3610	AA®3610LS
Torso and Ultra lift solutions available offering smooth operation to suite all project applications	■	
Single sliding option	■	
Locking fitch catch hardware available offering security in line with PAS 24: 2016*	■	
Option to open at 100mm, can comply with HTM 55 and BS 8213	■	
Ease of use, one operation gives high and low single sided ventilation, not reliant on the occupant opening multiple vents		■
High level ventilation at no extra cost, negates the need for actuators or remote operation gear to be fitted		■
Tested to equivalent of 75 years keeping maintenance costs to a minimum		■
Option of trickle ventilation	■	■

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



AA®3610/AA®3610LS Vertical Sliding Windows Applications

Typical Elevations

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

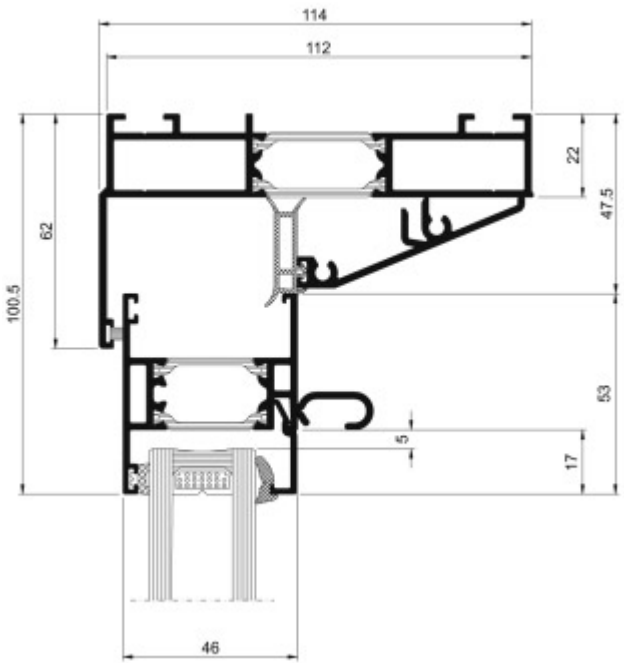
Elevation	Title		Website CAD ref. no.
	1	Cill detail	H02.01
	1a	Cill detail with sub cill	H03.01
	2	Head detail 1	H04.01
	2a	Head detail 2	H05.01
	2b	Head detail (trickle vent in frame)	H06.01
	2c	Head detail (trickle vent in sash)	H07.01
	3	Interlock detail	H08.01
	4, 5	Jamb details	H10.01
	8, 9	Coupling	H12.01
	8a	Coupling	H13.01
	10	Cill - fixed light	H14.01
	10a	Cill and sub cill-fixed light	H15.01
	11	Head - fixed light	H16.01
	11a	Head - fixed light with trickle vent	H17.01
	12	Jamb - fixed light	H18.01

Elevation	Title		Website CAD ref. no.
	13,14	Coupling - vertical slider/ fixed light	H19.01
	13a	Coupling - vertical slider/ fixed light	H20.01
	15	Fixed light/ fixed light	H21.01
	15a	Fixed light/ fixed light	H22.01
	16	Cill detail in AA®100 curtain walling	H23.01
	17	Head detail in AA®100 curtain walling	H24.01
	18	Jamb detail in AA®100 curtain walling	H25.01

AA®3610/AA®3610LS Vertical Sliding Windows

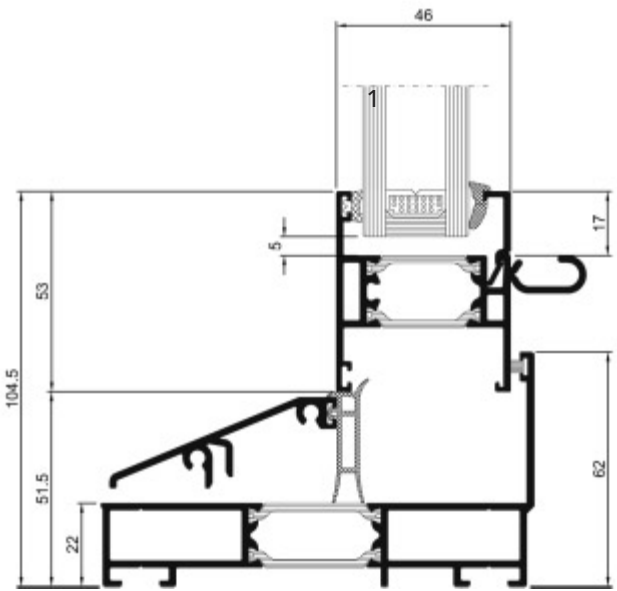
Full details can be downloaded from our website www.kawneer.co.uk

Head Detail



H04.01

Cill Detail

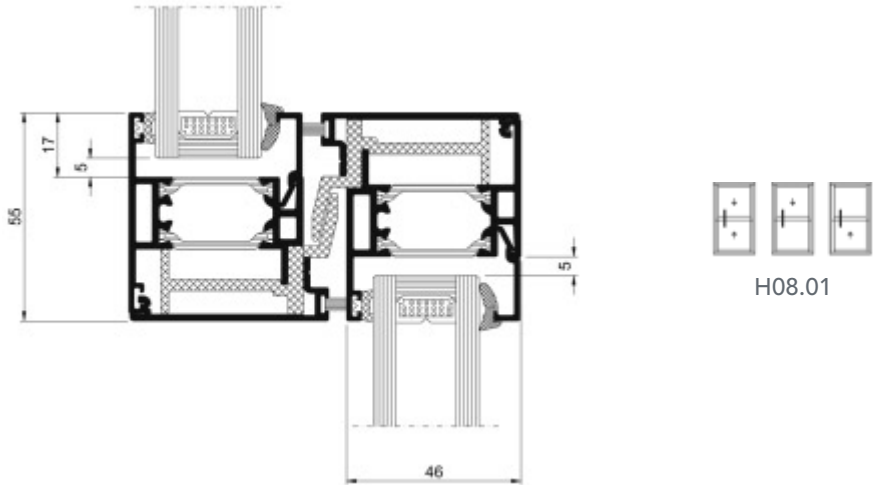


H02.01

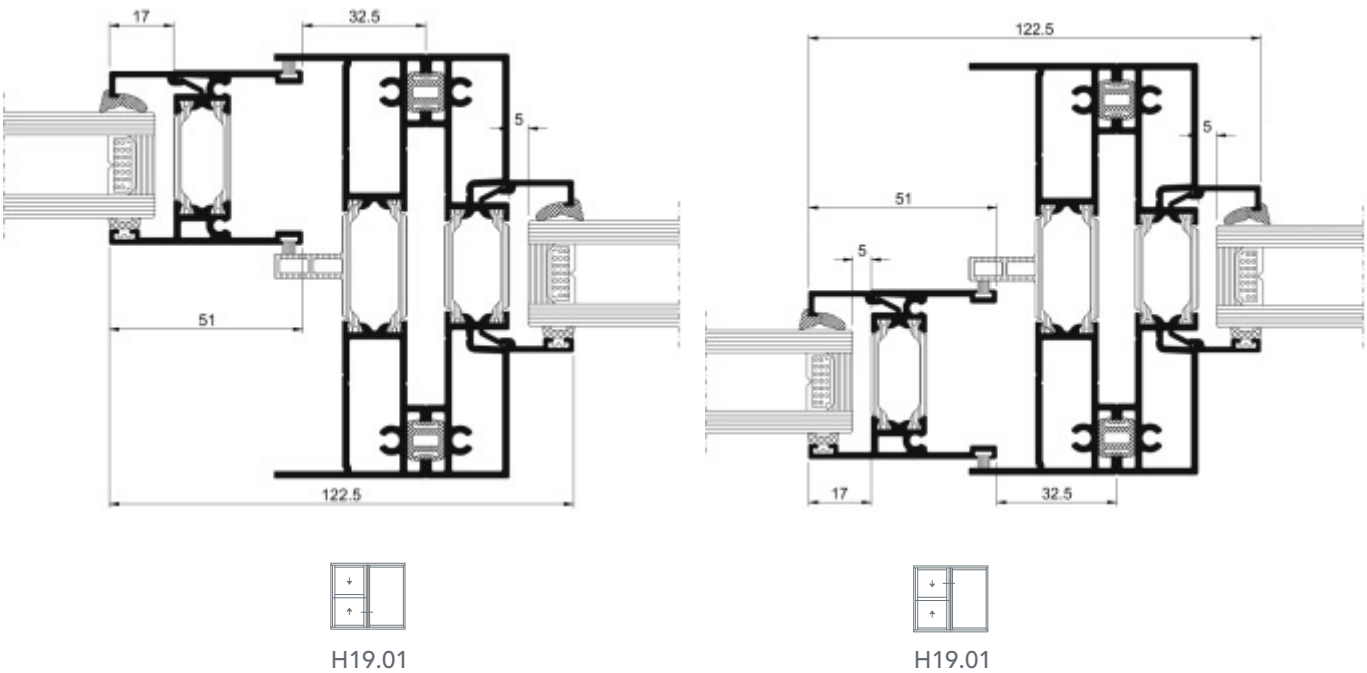
AA®3610/AA®3610LS Vertical Sliding Windows

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

Meeting Rail



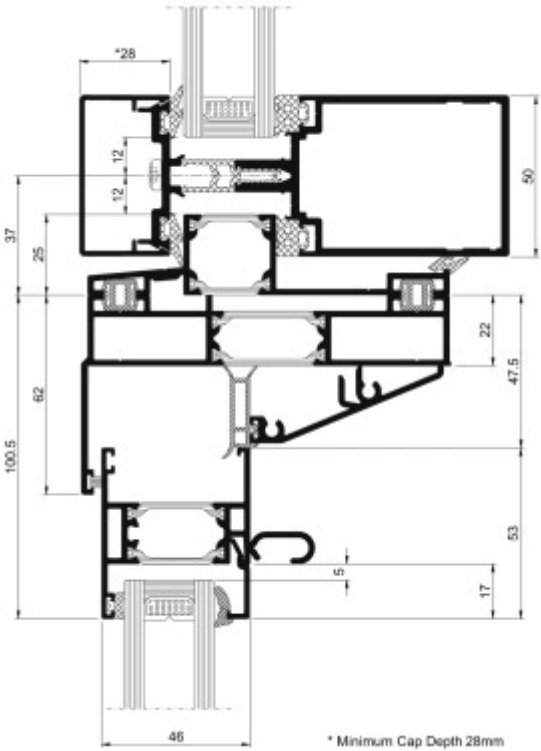
Coupling – Vertical Slider/Fixed Light



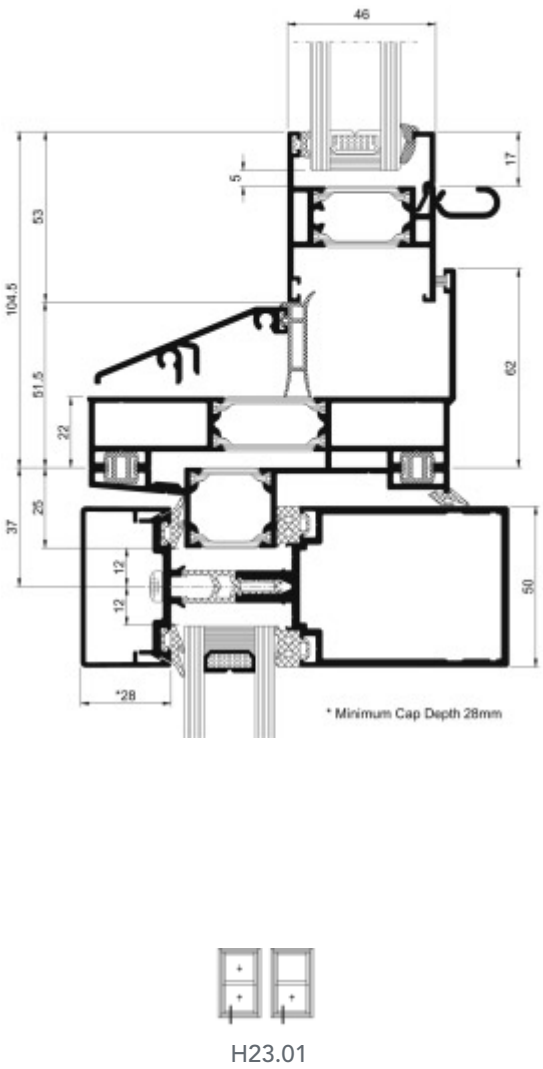
AA®3610/AA®3610LS Vertical Sliding Windows

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

Head Detail into Curtain Wall



Cill Detail into Curtain Wall



Case Study - Templeman Library, University of Kent

Kawneer glazing helps a university library move from Brutalist to beautiful

A multi award-winning redevelopment of a university library has used architectural glazing systems by Kawneer for their ability to combine aesthetics with performance and value for money.

Kawneer's aluminium AA®100 curtain walling, as zone-drained capped and mullion-drained SSG (Structurally Silicone Glazed) versions, is complemented by AA®100 concealed window vents, AA®541 top-hung casement window vents, AA®3610 vertical sliding windows and AA®3572 lift/slide doors.

They were specified by regular Kawneer users Penoyre & Prasad architects for the £27 million redevelopment, involving a new extension to and refurbishment of the existing building, of the Templeman Library at the heart of the University of Kent in Canterbury.

Designed by Lord Holford and constructed in three phases between 1965 and 1990, the new-look library was also constructed in three phases, with the 5,400m² new-build completed first, and second and third phases of 12,500m² refurbishment following.

Penoyre & Prasad's competition-winning design for the project creates a vibrant contemporary building for study, interaction and exploration, bringing together a variety of study and support spaces, versatile collection and exhibition space, and a teaching suite.

Their approach was to reveal the original building's hidden strengths by removing sections of floor structure at each level in the central core of the building to let in daylight and create views across the building, and replacing the glazing with the Kawneer curtain walling to weave the new extension and the existing building into one volume. The treatment of the external facade inverts the balance of the original Brutalist architecture of the building to create a strong and holistic contemporary architectural identity.

The new north entrance was formed by glazing in a services/delivery undercroft with Kawneer curtain walling, while remodelling of the existing library included two entrance extensions, improved vertical circulation and re-glazing of the entire façade, again with Kawneer curtain walling.

Penoyre & Prasad partner Suzi Winstanley said: "We specified the Kawneer products for their value for money and ability to combine aesthetics and construction quality at the price band, also their ability to achieve the performance requirements. They are an extensive part of the façade system, helping to keep the building warm in winter and cool in summer, allowing natural ventilation to the library. A key reason for aluminium was value for money for the interior and robustness for the exterior."

"The Kawneer products helped us achieve U-values for the external envelope, allowing sufficient daylight into the building whilst dealing with glare. They create a contemporary building of glass and concrete, combining the existing building with a new extension and upgraded façade. The glazed elements allow much more daylight into the existing refurbished building and enable the concrete elements of the façade to hang lightly against the glass façade at the entrance to the existing building, inverting the weight of the brick buttresses of the existing building and creating a clear and welcoming entrance. At the junctions with new concrete, existing concrete and existing brickwork, the glazing is the glue that ties all these elements together."

The redeveloped building has achieved a BREEAM "Excellent" rating, largely through the architect's simple but elegant ventilation treatment, with Kawneer's opening windows shielded by chain-like screens, stack effect in the double-height volume, and cross-ventilation to cool the inner spaces. Both the metal grillage and monumental external fins serve to shade what is otherwise a Kawneer glazed wall.

Its complexity lies in the scale of investment and in dealing with an existing building that is pivotal to the university's 15,000 students and needed to remain in use during construction. The Kawneer systems were installed by approved specialist sub-contractor Leay for main contractor Kier Construction. Leay's business development manager Mike Watts said: "Hinged mesh panels were hung from the Kawneer curtain wall in front of the opening vents at varying heights to mimic the effect of icicles hanging from the roof level. The original design was to have these fixed but for cleaning strategies these had to be designed hinged to access the screen behind."



Photos: Quintin Lake



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
Specification for operation and strength
- 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 pre-treatment 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.

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

