Other brochures available on request from Kawneer are:

- Finishes
- Door Systems
- Framing Systems
- Curtain Wall Systems
- Unitised Curtain Wall Systems
- AA®130 Brise Soleil System Solar Shading for Reduced Solar Heat Gain
- 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: The Grange University Hospital, Llanfrechfa Grange, Gwent

Photo: www.michaelwhitestone.co.uk



Building Legacies













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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

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WINDOW SYSTEMS



ARCHITECTURAL ALUMINIUM GLAZING SYSTEMS









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Window Systems Product Selector

	AA®720 Standard Casement	AA®720 SL Slimline Casement	AA [®] 720 Pivot	AA®720 Parallel Opening	AA®720 Tilturn	AA®541 Casement	GT70S Slimline Renovation (Open-In)
Applications							
New build						•	
Refurbishment	-						
Heavy Commercial	•		•	•	•		
Key Features							
BRE Green Guide Rating°	Α	А	А	А	А	A+	Α
Dual colour option	-				•	•	
Punched openings	-				•	•	
Composite windows	-		•		•	•	
Ribbon windows	-				•	•	
Triple Glazing						+	
100mm restriction			•		•		•
Choice of vent profiles							
Choice of muntins	-		-				
Trickle ventilation	-						
Option to clean from inside the building			-				
Suites with Juliet Balcony							
Suites with LouvreShield							
Suites with AA®100/AA®110 curtain walling						•	
Suites with AA®720 door	-						
Suites with AA®545 door							
Suites with 451PT framing							
Suited Handle Options‡	•						
Special Applications							
Heritage							
Smoke ventilation							

	AA®720	AA®720 SL	AA®720	AA®720	AA®720	AA®541	GT70S
	Standard Casement	Slimline Casement	Pivot	Parallel Opening	Tilturn	Casement	Slimline Renovation (Open-In)
Performance							
Security to PAS 24:2016	-	-					
Document F compliant*†	-	-	•		•	-	
Document L compliant†	•	-	-	•	•	-	•
Accessories							
Locking handle							
Espagnolette locking	-	-	•			-	
Multi-point locking	-		•			-	
Restricted Pivots			•				
Folding opener	-					-	
Releasable and fixed restrictors available							
Two-Stage Open-In Accessibility	Vent¶				•		
Window Types							
Casement Top Hung	-						
Casement Side Hung	-						
Parallel Opening							
Pivot Vertical / Offset							
Pivot Horizontal							
Tilturn					-		
Tilturn (Side Hung)					-		
Tilturn (Bottom Hung)							

- Notes:

 * When fitted with trickle vent

- * When fitted with trickle vent
 † Dependant on window size and configuration
 ♦ With additional restrictor
 + Optional/Limited
 O Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A and A+ for non-domestic schemes. www.thegreenguide.org.uk Element Number 1231500011 (A+) Element Number 1231500007 (A)
 ¶ For the AA®720 Two-Stage Open-In Accessibility Window, see page 8
 ‡ Suited handles available for the AA®720 and AA®720 SL Open Out Casements, also the AA®720 Open In Tilturn, Turn Before Tilt, Turn Only, Bottom Hung and French Casement, 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:









Locking Espagnolette Handle



Standard Door 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



Tilturn Non Locking Handle



Standard Door 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			V			
TBT Handle - Lockable			V			
Espagnolette Window Handle Lockable	V	V				
Lift/Slide Handle - Inner Side - with Cylinder						V
Lift/Slide Handle - Outside - with Cylinder						~
Lift/Slide Handle - Inner Side - without Cylinder						~
Lift/Slide Handle - Outside - without Cylinder						V
Internal Door Handle on Short Backplate				V	V	
External Door Handle on Short Backplate					V	
Internal Door Handle				V	V	
External Door Handle					V	
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	~			
Window Handle with Spindle 25mm	~			
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				V

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.

AA®720 Two-Stage Open-In Accessibility Window

Introduction

Specifically designed for high rise Residential applications, but suitable for multiple markets, the new AA®720 Accessibility Window featuring a Two-Stage Opening Vent.

It features an operation handle positioned at the bottom of the vent for easy access and control which also meets the Lifetime Homes standard. The vent can be opened in two stages:

- Stage 1 allows the window to open in to 100mm, providing natural ventilation and compliance with Document F
- Stage 2 enables the window to be fully opened in with a key, allowing for thorough cleaning and purge ventilation

The restrictor mechanism automatically re-engages the window when closed for safety.

The AA®720 Two-Stage Open-In Accessibility Window was developed to provide flexible accommodation for the lifetime of a building, either home or office. Bringing Lifetime home principles into the design of any building ensures that there is no need to undergo refurbishment, and it reduces the need for home adaptations required to accommodate the changing needs of the inhabitants which also gives greater independence to disabled people.

Features and Benefits

- Complies with Lifestyle home standards ensuring that the accommodation is adaptable throughout the lifetime of the building
- Handle operates from the bottom of the window for easy access and control
- The open-in feature allows for access for cleaning and maintenance
- Open in restriction of 100mm for safety, compliant with the HTM 55 regulations and BS 8213 of 100mm initial opening
- Option of Trickle Ventilation can help meet the requirements of Document F
- Suites with the AA®720 Series, AA®100/AA®110 Curtain Walling, 451PT Framing and Door Systems
- The restrictor mechanism automatically re-engages the window when closed for safety
- Vent opens in two stages, one for ventilation, two for cleaning and maintenance

Standards

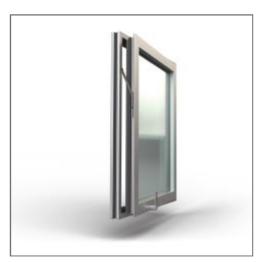
- BS 6375 Part 1
- BS 6375 Part 2

Security

Tested to PAS 24 security testing.



Window Closed



Window Restricted with 100mm Opening



Window Fully Open to allow for Maintenance and Cleaning





AA®720 Outward Opening Window Systems

Introduction

The AA®720 Series has been developed to meet the latest European requirements for thermal performance.

To enable complete flexibility of design, performance and cost, the AA®720 is a modular system providing incremental levels of thermal performance, starting with the highest - AA®720 HI Reflex, AA®720 HI and AA®720 HW.

In addition there is the AA®720 SL Slimline Casement which offers narrow sightlines for both contemporary, residential and heritage applications, with a choice of flush or standard sash frames.

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

As well as being fully integrated, the range 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 and AA®720 SL Casement Windows, 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.

Design considerations for the outward opening window range are:

- Top Hung
- Side Hung
- Vertical Pivot (and Offset Pivot)
- Horizontal Pivot
- Parallel Opening

For information on Kawneer's AA®720 Series Door Systems please refer to the Door Systems section.

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 and AA®720 SL Casements and AA®720 Parallel have been independently tested to PAS 24:2016.

* 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 BS EN 12207	Watertightness BS EN 12208	Wind Resistance BS EN 12210
AA®720 Casement	Class 3-4 (600 Pa)	Class 9A (600 Pa)	Class E2400 (2400 Pa)
AA®720 SL Casement	Class 3-4 (600 Pa)	Class 9A (600 Pa)	Class E2400 (2400 Pa)
AA®720 Pivot	Class 3-4 (600 Pa)	Class 9A (600 Pa)	Class E2400 (2400 Pa)

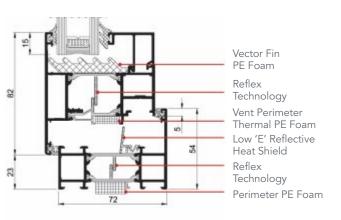
All Windows comply with Operation and Strength Test BS 6375 Pt2: 2015

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

Thermal Performance - Outward Opening

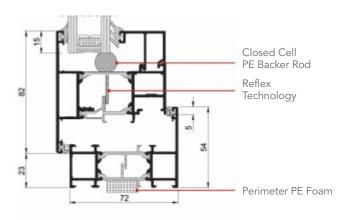
AA®720 HI ReflexPlus Casement





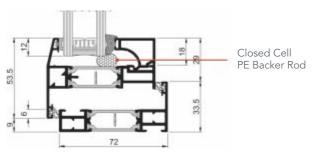
AA®720 HW Casement





AA®720 SL Casement

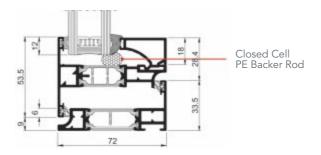




AA®720 SL Double Flush

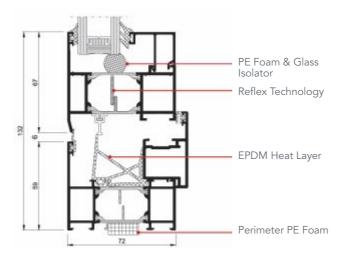
Casement





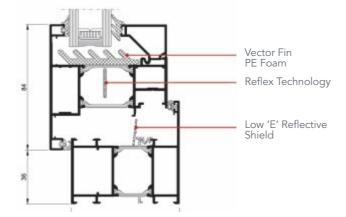
AA®720 HW Pivot





AA®720 HI Parallel





Thermal Performance

The AA®720 Casement, can be manufactured within 5 levels of thermal performance – providing flexibility in design, performance and cost.

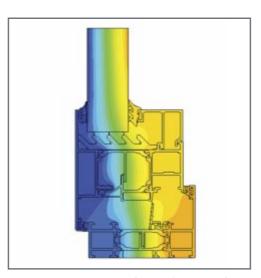
AA®720 HI ReflexPlus – Highest Performance Level – Reflex Technology within the vent and frame profiles, closed cell PE vector fin glazing rebate foam, closed cell vent perimeter foam, closed cell frame perimeter foam insulation tape, low 'e' heat shield centre seal.

AA®720 HI Reflex – Reflex Technology within the vent and frame profiles, closed cell PE vector fin glazing rebate foam, closed cell vent perimeter foam, closed cell frame perimeter foam insulation tape.

AA®720 HI – Reflex Technology within the vent profile, closed cell PE vector fin glazing rebate foam, closed cell vent perimeter foam, closed cell frame perimeter foam insulation tape.

AA®720 HW – Reflex Technology within the vent profile, closed cell PE glazing rebate foam, closed cell frame perimeter foam insulation tape.

 $AA^{\odot}720$ SL – Standard polyamide thermal break within the vent profile, closed cell PE glazing rebate foam.



Thermal Evaluation of the AA®720 HI Reflex^{Plus}

Casement Window

The AA®720 Reflex Technology

Due to the anticipated amendments to Approved Document L, and the continued market demands for high performance windows, Kawneer has developed a unique system it can apply to it's polyamide thermal breaks to give further thermal improvements to the window, and reduce heat transfer through the profile.

The inclusion of a low emmisivity reflective foil to the thermal 'flags' allows the AA®720 Casement to achieve U-values as low as 1.0 W/m²K for a CEN size window with a warm edge spacer**

Additional Product Features

In addition to the features described, the AA®720 Casement Window offers market leading weight capabilities for a top hung window. With a capability of up to 130kg, high performance acoustic and/or security glass applications can be easily accommodated within the standard window without additional reinforcements or fabrication requirements.

With a choice of locking or non locking handles in a range of finishes, the system can be incorporated effectively in a number of applications.

The AA®720 Casement Window has been designed with flexibility and ease of fabrication as key requirements. The system provides the option of internal or external glaze options, to suit a variety of applications. The system incorporates a standard hardware groove, to provide cost effective locking hardware without compromising performance or security.

Performance Testing - Smoke Vent

The AA®720 open out casement window has been successfully tested to BS EN 12101-2, meeting smoke vent standards that are now a mandatory requirement, especially in high rise residential schemes.

The introduction of the Construction Products Regulations in 2013 has resulted in the need to CE mark any product placed onto the market that has a harmonised European standard.

Vertical options for top, side and bottom hung open out applications are available with a single or twin actuator offering opening widths of up to 900mm to meet required free area requirements.

	HI Reflex™	S Casement	HI Reflex	Casement	HI Cas	sement	HW Ca	sement	SL Cas	ement
Glass	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**
Overall Uw	1.3 W/m ² K	1.0 W/m²K	1.4 W/m ² K	1.1 W/m²K	1.4 W/m ² K	1.1 W/m ² K	1.5 W/m ² K	1.2 W/m²K	1.4 W/m ² K	1.1 W/m ² K

Based on a 34mm Outer Frame/34mm Inside Glaze vent Combination

- * Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge (0.048 W/m²K) spacer.
- ** U-values based on CEN size windows (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.043 W/m²K) spacer.

AA®720 Standard Casement Window

Introduction

Windows and Doors. In line with the existing range, the AA®720 Casement is available in a range of increasing levels of thermal performance – incorporating Kawneer's latest Reflex unique thermal break technology.

The AA®720 Casement Windows are available as top hung or side hung windows and can be either internally or externally glazed. Additional advantages of the advanced thermal break technology include the options of dual colour finishes, to provide design flexibility in various applications.

Product Features and Benefits

- BRE Green Guide 'A' Rated Frame* for projects that require sustainable and environmental advantages
- Range of locking options available for flexibility. Choose from standard Espagnolette locking to enhanced security in line with PAS 24:2016
- Option of Trickle Ventilation can help meet the requirements of Document F
- Projected top hung or side hung or butt hinge options total flexibility, suits most casement project applications
- Suites with the AA®720 series, AA®100/AA®110 Curtain Walling, 451PT Framing and Door Systems
- Offset handle position for side hung windows. Safety in use – suitable for 'Lifetime Homes' Specification
- Choice of restrictors available to 100mm. Design flexibility. Compliant with the HTM 55 regulations and BS 8213 of 100mm initial opening
- Folding Openers with Link Bars offer safety in use
- Maximum size 2300mm(W) x 2500mm(H) suitable in even the most demanding of applications
- Suited hardware compatible hardware to compliment the AA®720, AA®540 and AA®3720 ranges
- Outside glaze option (not PAS 24 compliant)
- Suited Handle Options available, see pages 6 and 7

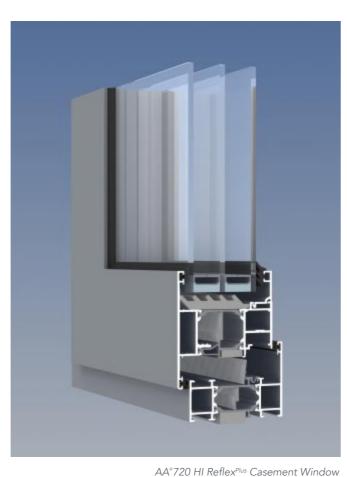
The AA®720 Casement Window is part of the AA®720 range of The AA®720 Casement Window has been independently tested to PAS 24:2016.

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

Secured by Design



* 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



Window Systems www.kawneer.co.uk

Cocomont Product Soloctor

Performance	AA®720 Casement*	AA®720 SL Casement	AA®541 Casement
Weather Performance (BS 6375)	•	•	•
Security to PAS 24:2016			
Uw (Double Glazing)	1.5 W/m ² K	1.6 W/m ² K	1.8 W/m ² K
Uw (Double Glazing with warm edge spacer)	** 1.3 W/m²K	1.4 W/m ² K	1.6 W/m ² K
Uw (Triple Glazing)	1.2 W/m ² K	1.2 W/m ² K	1.5 W/m ² K
Uw (Triple Glazing with warm edge spacer)***	* 1.0 W/m²K	1.1 W/m ² K	1.3 W/m ² K
Special Features			
BRE Green Guide Rating ^o	А	А	A+
Design Features			
Dual Colour Option	•	•	•
Composite Windows	•	•	
Ribbon Windows	•	•	
Punched Out Openings	•	•	
Triple Glazing	•	•	+
Infills:	upto 56mm	upto 42mm	upto 39mm
Standard Hardware Groove			
Multi-Point / Single Sided Locking Options	•	•	
100mm Restriction			
Trickle Ventilation			
Locking Handles	•	•	
Folding Openers	•		
Cockspur Handle	•		
Espagnolette Handle	•	•	•
Friction Hinges	•	•	•
Butt Hinges			
Variable Angle Corner Post			
Suited Handle Options‡	•	•	
System Depth			
54mm			•
72mm	•	•	
Maximum Window Sizes●	upto	upto	upto
Projected Top Hung●	2300mm(W) x 2500mm(H)	1500mm(W) x 1500mm(H)	1800mm(W) x 1800mm(H
Projected Side Hung•	845mm(W) x 1900mm(H)	900mm(W) x 1500mm(H)	845mm(W) x 1800mm(H
Top Hung with Butt Hinges●	1800mm(W) x 1600mm(H)		1800mm(W) x 1600mm(H
Side Hung with Butt Hinges●	900mm(W) x 1900mm(H)		900mm(W) x 1800mm(H
Applications			
New Build	•	•	•
Refurbishment			

Based on the AA®720 HI ReflexPlus

Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m2K double glazing with warm edge

*** U-values based on CEN size windows (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.043 W/m²K) spacer.

15

Height and Width Limitations vary dependant on glass weights and hardware requirements – please check with the Technical Services Department
 Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A and A+ for non-domestic schemes. www.thegreenguide.org.uk Element Number 1231500011 (A+) Element Number 1231500007 (A)
 For the Suited Handle Options, see pages 6 and 7

AA®720 Standard Casement Window Applications

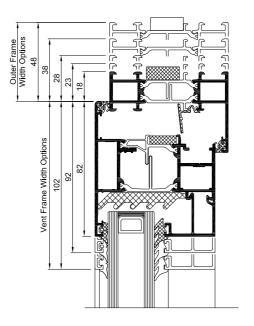
Typical Elevations

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

Elevation		Title		Website	CAD ref. no.	
			AA®720 HI Reflex ^{Plus}	AA®720 HI Reflex	AA®720 HI	AA®720 HW
, . .	1, 2 3, 4	Fixed Light Head and Cill (inside glazed) Fixed Light Jamb (inside glazed)	H24-3 H24-4	H4-3 H4-4	H4-3 H4-4	H4-53 H4-54
7 - Eucl.	5, 6 7, 8	Fixed Light Head and Cill (outside glazed) Fixed Light Jamb (outside glazed)	H24-5 H24-6	H4-5 H4-6	H4-5 H4-6	H4-55 H4-56
Est. Canel	9	Casement/Fixed Light Muntin	H24-9	H4-9	H4-9	H4-59
Cutar Wal	= 10	Casement Curtain Wall Insert - Head	H24-7 & H24-8	H4-7 & H4-8	H4-7 & H4-8	H4-57 & H4-58
	11	90° Corner (Casement/Fixed Light)	H24-10	H4-10	H4-10	H4-60
	12	135° Corner (Casement/Fixed Light)	H24-11	H4-11	H4-11	H4-61
13	13	Coupling Mullion	H24-12	H4-12	H4-12	H4-62
35	14, 15	Casement Jamb Detail (inside glazed vent)	H24-13	H4-13	H4-13	H4-63
	16, 17	Casement Head and Cill Detail (inside glazed vent)	H24-13	H4-13	H4-13	H4-63
# Tax	18, 19	Casement Jamb Detail (outside glazed vent)	H24-14	H4-14	H4-14	H4-64
	20, 21	Casement Head and Cill Detail (outside glazed vent)	H24-14	H4-14	H4-14	H4-64

Elevation		Title	Website CAD ref. no.					
			AA®720 HI Reflex ^{Plus}	AA®720 HI Reflex	AA®720 HI	AA®720 HW		
End. Gasted	22	Casement/Fixed Light Muntin (outside glazed vent)	H24-15	H4-15	H4-15	H4-65		
	23	Casement/Casement Muntin (inside glazed vent)	H24-16	H4-16	H4-16	H4-66		
	24	Horizontal Coupling	H24-17	H4-17	H4-17	H4-67		
	25	Casement/Fixed Light	H24-18	H4-18	H4-18	H4-68		
Plevense Glassed	26, 27	(reverse glazing adaptor) Fixed Light Head & Jamb (reverse glazing adaptor)	H24-19	H4-19	H4-19	H4-69		
ab	28	Casement/Fixed Light (reverse vent adaptor)	H24-20	H4-20	H4-20	H4-70		
Trace Vertilation	29	Through Frame Trickle Ventilation	H24-21	H4-21	H4-21	H4-71		
N.	30 31	Casement Cill Detail Casement Cill Detail (alternative)	H24-23 H24-24	H4-23 H4-24	H4-23 H4-24	H4-73 H4-74		

Frame and Vent Size Options

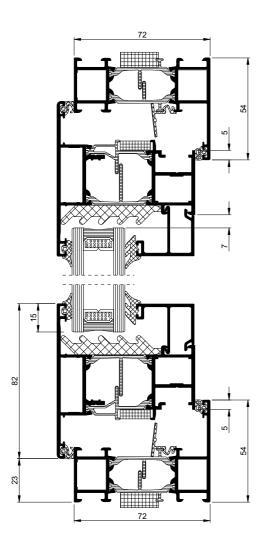


AA®720 Standard Casement Window

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

AA®720 HI ReflexPlus

Head & Cill Detail







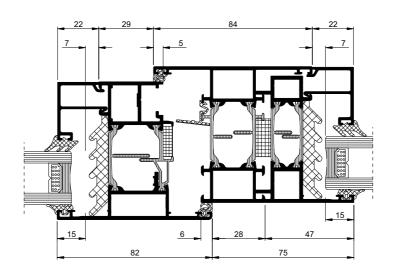
H24-13

AA®720 Standard Casement Window

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

AA®720 HI ReflexPlus

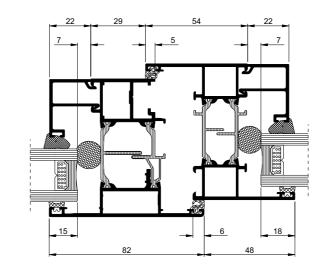
Vent/Fixed Light Muntin Detail





H24-18

Vent/Fixed Light Z-Muntin Detail





H18-01

AA®720 SL Slimline Casement Window

Introduction

The AA®720 SL Slimline Casement Window is part of the AA®720 range of Windows and Doors. It is an open-out window designed with narrow frame sightlines to achieve a modern aesthetic look, providing optimum weather and thermal performance. The AA®720 SL Slimline Casement Window is available in two styles:

AA®720 SL Standard

The Standard option, with overlapped vent, offers a more conventional window design with slim elegant frame sections. It is a cost effective and robust solution specifically designed for the Education sector.

AA®720 SL Double Flush

The Double Flush option is a contemporary flush vent with a unique double flush external and internal aesthetic, carrying the slimline look from the outside to the inside of the building. It has been specifically designed for the Home Improvement sector.

The AA®720 SL is available as a top hung or side hung window and the use of a polyamide thermal break offers single or dual colour options.

The AA®720 SL uses a multi-chamber thermal break core, ensuring thermal efficiency and full compliance with Document L.

The AA®720 SL has been fully tested to achieve PAS 24:2016 enhanced security certification. Internal glazing for both vents and fixed lights is more cost effectively achieved without the use of reverse glazing adaptors.

Product Features and Benefits

- BRE Green Guide 'A' Rated Frame* for projects that require sustainable and environmental advantages
- The double flush casement with flush frames both externally and internally carry the sleek contemporary aesthetic through to the inside of the building
- Ultra slim sightlines maximise the glazing vision area while also providing a superior, modern look to any window
- Featuring high-performance thermal break insulating technology
- Insulated glazing options, including triple glazing, offer exceptional comfort and economy in any size home
- Outward opening side hung windows available with easyclean egress hinges enabling simple and practical window maintenance
- The various high performance cill options and corner posts for bays and conservatories suit virtually any configuration
- Espagnolette locking to the casement offers complete peace of mind against opportunist break-ins and have been tested to PAS 24:2016 enhanced security standard

- Suites with the AA®720 series, AA®100/AA®110 Curtain Walling, 451PT Framing and Door Systems
- Option of Trickle Ventilation can help meet the requirements of Document F
- Accommodates glazing up to 42mm
- Choice of restrictors available to 100mm
- Top Hung maximum size up to 1500mm(W) and 1500mm(H)
- Side Hung maximum size up to 900mm(W) and 1500mm(H)
- Suited hardware compatible hardware to compliment the AA®720 and AA®540
- Box beads for enhanced security
- Drained and ventilated weathering
- Choice of muntins and coupling mullions
- Suited Handle Options available, see pages 6 and 7
- * 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

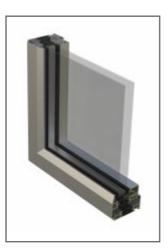
Security*

The AA®720 SL Casement Window has been independently tested to PAS 24:2016.

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

Secured by Design









AA®720 SL Double Flush with Cill

Casement Product Selector

Performance	AA®720 Casement*	AA®720 SL Casement	AA®541 Casement
Weather Performance (BS 6375)	•	•	•
Security to PAS 24:2016		•	•
Uw (Double Glazing)	1.5 W/m ² K	1.6 W/m ² K	1.8 W/m²K
Uw (Double Glazing with warm edge spacer)*	* 1.3 W/m ² K	1.4 W/m ² K	1.6 W/m ² K
Uw (Triple Glazing)	1.2 W/m ² K	1.2 W/m ² K	1.5 W/m ² K
Uw (Triple Glazing with warm edge spacer)***	1.0 W/m ² K	1.1 W/m ² K	1.3 W/m ² K
Special Features			
BRE Green Guide Rating ^o	А	А	A+
Design Features			
Dual Colour Option	•	•	•
Composite Windows			
Ribbon Windows			
Punched Out Openings			
Triple Glazing			m+
Infills:	upto 56mm	upto 42mm	upto 39mm
Standard Hardware Groove			•
Multi-Point / Single Sided Locking Options			
100mm Restriction			
Trickle Ventilation			•
Locking Handles			
Folding Openers			•
Cockspur Handle	•		
Espagnolette Handle		•	
Friction Hinges		•	•
Butt Hinges	•		•
Variable Angle Corner Post			
Suited Handle Options‡	•	•	
System Depth			
54mm			•
72mm			
Maximum Window Sizes●	upto	upto	upto
Projected Top Hung●	2300mm(W) x 2500mm(H)	1500mm(W) x 1500mm(H)	1800mm(W) x 1800mm(H
Projected Side Hung•	845mm(W) x 1900mm(H)	900mm(W) x 1500mm(H)	845mm(W) x 1800mm(H
Top Hung with Butt Hinges●	1800mm(W) x 1600mm(H)		1800mm(W) x 1600mm(H
Side Hung with Butt Hinges●	900mm(W) x 1900mm(H)		900mm(W) x 1800mm(H
Applications			
New Build	•	•	•
Refurbishment			

Note

* Based on the AA®720 HI Reflex^{Plus}

** Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge (0.048 W/m²K) spacer.

*** U-values based on CEN size windows (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.043 W/m²K) spacer.

+ Optional/Limited

Height and Width Limitations vary dependant on glass weights and hardware requirements – please check with the Technical Services Department
 Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A and A+ for non-domestic schemes. www.thegreenguide.org.uk Element Number 1231500011 (A+) Element Number 1231500007 (A)

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

AA®720 SL Slimline Casement Window Applications

Typical Elevations

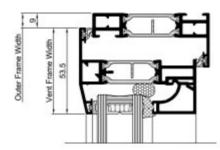
Full details can be downloaded from our website www.kawneer.co.uk

Elevation		Title		e CAD ref. no.
			AA®720 SL Standard	AA®720 SL Double Flush
3	1, 2 3, 4	Fixed Light Head and Cill (inside glazed) Fixed Light Jamb (inside glazed)	PMH-003 PMH-003	PMH-003 PMH-003
St. Glame	5, 6 7, 8	Fixed Light Head and Cill (outside glazed) Fixed Light Jamb (outside glazed)	PMH-004 PMH-004	PMH-004 PMH-004
Bac. Gland	9	Casement/Fixed Light Muntin	PMH-006	PMH-005
Goriale Wid	10	Casement Curtain Wall Insert - Head	PMH-006	PMH-005
(T)	11	90° Corner (Casement/Fixed Light)	PMH-008	PMH-007
12	12	135° Corner (Casement/Fixed Light)	PMH-010	PMH-009
13	13	Variable Corner (Casement/Fixed Light)	PMH-012	PMH-011
14	14	Muntin (Cleated Fixing) Muntin (Screw Spline Fixing)	PMH-013 PMH-031	PMH-013 PMH-031
*15	15	Coupling Mullion	PMH-014	PMH-014
15	16	Horizointal Coupling Mullion	PMH-018	PMH-018
72	17	Casement Jamb Detail	PMH-024	PMH-023

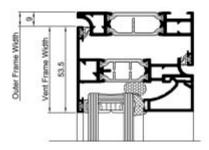
Elevation		Title	Website CAD ref. no.			
			AA®720 SL	AA®720 SL		
			Standard	Double Flush		
	18,19	Casement Head and Cill Detail	PMH-022	PMH-021		
23	20	Casement/Fixed Light Muntin (internal glazing)	PMH-036	PMH-035		
Gisco	21	Casement/Fixed Light Muntin (outside glazed fixed light)	PMH-037			
	22	Casement/Casement Muntin	PMH-034	PMH-033		
	23	Casement/Casement Muntin	PMH-045	PMH-046		
	24	Horizontal Coupling		PMH-038		
	25	Casement/Casement Muntin	PMH-028	PMH-027		
	26	(Cruciform window configuration) Casement/Fixed Light Muntin (Cruciform window configuration)	PMH-030	PMH-029		
2627	27	Fixed Light/Fixed Light Muntin (Cruciform window configuration)	PMH-031	PMH-031		
-	28	Casement/Fixed Light (internal glazing)	PMH-026	PMH-025		
Teich verhau	29	Through Frame Trickle Ventilation	PMH-019	PMH-020		
30/351	30 31	Casement Cill Detail Casement Cill Detail (alternative)	PMH-040 PMH-043	PMH-040 PMH-043		

Frame Size Options

AA®720 SL Standard



AA®720 SL Double Flush



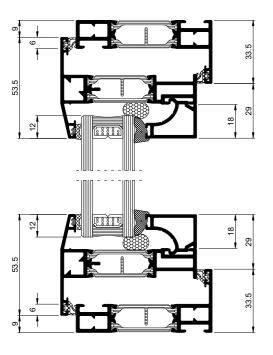
AA®720 SL Slimline Casement Window

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

AA®720 SL Standard

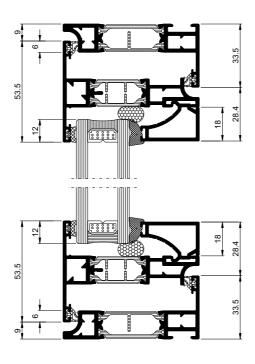
AA®720 SL Double Flush

Head & Cill Detail





Head & Cill Detail



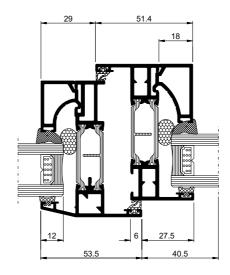


AA®720 SL Slimline Casement Window

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

AA®720 SL Standard

Vent/Fixed Light Z-Muntin Detail

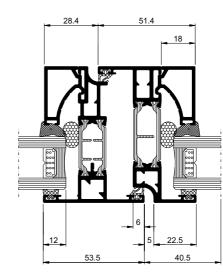




PMH-026

AA®720 SL Double Flush

Vent/Fixed Light Z-Muntin Detail





PMH-025

AA®720 Pivot Window

Introduction

The AA®720 Pivot Window is part of the AA®720 range of Windows and Doors. In line with the existing range, the AA®720 Pivot offers excellent weather and thermal performance incorporating Reflex technology and foam rod.

As you would expect AA®720 Pivot Window is available for both horizontal and vertical pivot applications as well as vertical offset pivot, which makes it the ideal choice where natural ventilation is required.

Product Features and Benefits

- BRE Green Guide 'A' Rated Frame* for projects that require sustainable and environmental advantages
- Horizontal and vertical pivot options available resulting in continuous air flow to aid compliance with Document F
- Standard bead, Box bead and Softline bead (Softline beads are mitred and secured with retaining clips)
- Thermal performance U_f from 1.8 W/m²K
- Range of standard and coloured anodised finishes
- Trickle ventilation option available to help meet the requirements of Document F
- Multi-point locking for added security and added safety in operation
- An integral automatic restrictor for restricted and non restricted pivots:
- Manual Locking/Unlocking with special Allen Key
- Automatic Re-engagement
- Manual Disengagement
- The pivot housing is exclusively designed for Kawneer in order to suite the extrusion profile thus enhancing aesthetic and performance characteristics
- Accommodates glazing up to 56mm including triple glazing
- Suites with AA®720 series, AA®100/AA®110 Curtain Walling, 451PT Framing and Door Systems
- * 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

Vent Size Limitations

All dimensions stated are in millimetres.

All dimensions stated are vent sizes.

Dimensions stated are General System Limitations.

Vent profile and hardware options are chosen depending upon size and glass weight.

Horizontal Pivot

- Maximum weight 150kg
- Width up to 1900mm
- Height up to 1900mm

Vertical Pivot - Central

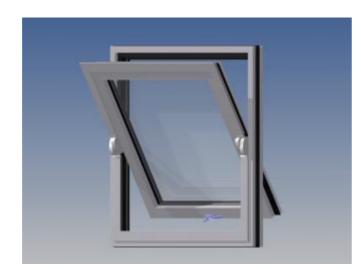
- Maximum weight 110kg
- Width up to 1900mm
- Height up to 1900mm

Vertical Pivot - Offset

- Maximum weight 110kg
- Minimum Dimensions Pivot Centre 350mm Wide (Open In Portion) x 500mm High
- Maximum Dimensions Pivot Centre **950mm Wide (Open Out Portion) x 1900mm High

**Maximum Size Pivot Centre 950mm wide applies to Heavy Duty Profile 3001 877.

For further information on vent profile options please refer to Section B of the AA®720 Product Manual.



AA®720 Horizontal Pivot Window

Pivot Product Selector

Performance	AA®720 Pivot	
Weather Performance (BS 6375)	•	
Uw (Double Glazing)	1.6 W/m²K	
Uw (Double Glazing with warm edge spacer)*	1.5 W/m ² K	
Uw (Triple Glazing)	1.3 W/m²K	
Uw (Triple Glazing with warm edge spacer)**	1.2 W/m²K	
Special Feature		
BRE Green Guide Rating ^o	A	
Design Features		
Dual Colour Option	•	
Composite Windows		
Ribbon Windows	•	
Punched Out Openings		
Triple Glazing		
Infills	upto 56mm	
Multi-Point / Single Sided Locking Options		
Storm Catches	•	
Up to 100mm Restriction	•	
Trickle Ventilation		
Locking Handles		
Cockspur Handle		
Espagnolette Handle	•	
10° Restriction		
15° Restriction		
System Depth		
72mm	•	
Maximum Window Sizes●	upto	
Height●	1900mm	
Width●	1900mm	
Applications		
New Build	•	
Refurbishment	•	

Notes

- * Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge (0.048 W/m²K) spacer.
- ** U-values based on CEN size windows (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.043 W/m²K) spacer.
- Height and Width Limitations vary dependant on glass weights and hardware requirements please check with the Technical Services Department
 Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A and A+ for non-domestic schemes. www.thegreenguide.org.uk Element Number 1231500011 (A+) Element Number 1231500007 (A)

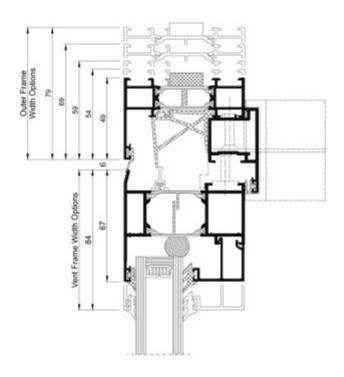
AA®720 Pivot Window Applications

Typical Elevations

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

Elevation		Title W	/ebsite CAD ref. no.
	1	Horizontal Pivot Head	H5-11, H5-12
	2	Horizontal Pivot Cill	H5-13
	3	Horizontal Pivot - Jamb	
<u>+</u> N /1		(below Pivot)	H5-14
	4	Horizontal Pivot - Jamb	H5-15
2		(above Pivot)	
	9	Horizontal Pivot/Horizontal Pivot Muntin	H5-20
TENN HORIZONTIN, PRIOTE			
1	5	Vertical Pivot - Head	H5-16
	6	Vertical Pivot - Cill	H5-17
	7	Vertical Pivot - Jamb (handle side) H5-18
¹ 1	8	Vertical Pivot - Jamb (open-in side	
VERTICAL PROT			
2	5	Offset Vertical Pivot - Head	H5-16
	6	Offset Vertical Pivot - Cill	H5-17
	7	Offset Vertical Pivot - Jamb	H5-18
,#K #I	/	(handle side)	113-10
	8	Offset Vertical Pivot - Jamb	H5-19
	0	(open-in side)	113-17
OFFSET OFFSET (SHI OPEN IN SHOWING		(open-in side)	
	11	Pivot Window - Vent Muntin	H5-22
WHITEOU PRINT			
	10	Pivot Insert into Curtain Wall	H5-21
PROTEINE WALLING	-		
	12	Horizontal Pivot -	H5-23
, v		Transom Head Detail	
	12	Vertical Pivot -	H5-23
n. 17	14	Transom Head Detail	110-23
	12	Horizontal Pivot -	H5-24
		Transom Cill Detail	

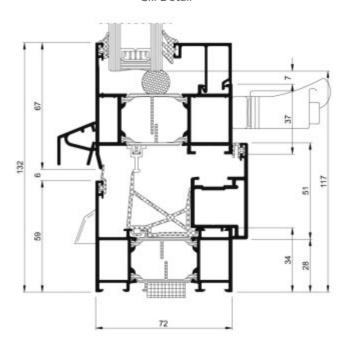
Frame and Vent Size Options



AA®720 Horizontal Pivot Window

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

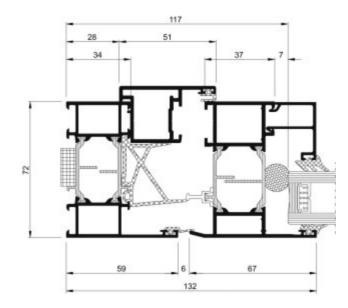
Cill Detail





H5-13

Jamb Detail



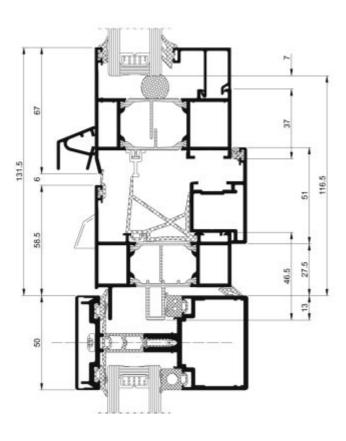


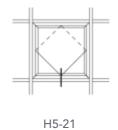
H5-14

AA®720 Horizontal Pivot Window

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

Pivot into Curtain Wall

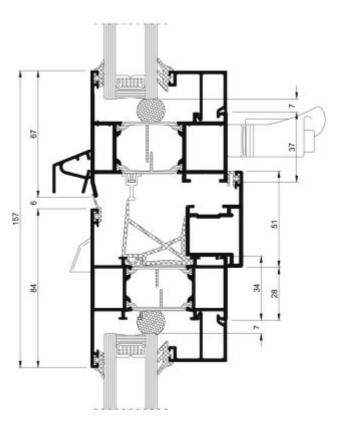




AA®720 Horizontal Pivot Window

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

Transom Cill Detail





H5-24

AA®720 Parallel Opening Window

Introduction

The AA®720 Parallel Opening Window is available as a stand alone window system and as an insert into existing Kawneer curtain walling and framing systems allowing complete design freedom.

Based on the established Kawneer AA®720 window system, the parallel opening design benefits from the proven thermal performance of the standard AA®720 casement, achieving U-values of 1.2 W/m²K for a CEN sized window, triple glazed with warm edge spacer, while offering exceptional levels of natural ventilation and air exchange.

Increased air flow around the full perimeter of the window facilitates highly efficient natural ventilation while greatly reducing draughts. Fresh air is drawn in via the bottom of the window while warm, stale air is expelled via the top of the window creating full circulation of air within the room.

This efficient exchange of air can assist with Approved Document F compliance and can enable the AA®720 Parallel Opening Window to meet the ventilation requirements of even the most demanding project.

Product Features and Benefits

- Effective ventilation around the whole perimeter of the window can achieve approximately twice the natural ventilation of an equivalent sized top hung window*
- Increased air circulation and natural ventilation draughts are reduced while fresh air ventilation exchange is maximised*
- 80mm clear opening restriction as standard safety for all users and occupants
- Proven thermal performance of standard AA®720 -U-value of 1.2 W/m²K for CEN sized window, triple glazed with warm edge spacer
- Suites with Kawneer Curtain Wall and Framing products
 total design flexibility, offering total project solutions
- Parallel operation of window maintains the same reflective aesthetic as the facade
- Maximum vent size of 1500mm wide x 2400mm high for manual operation (larger sizes may be possible using automatic operators) - large vents allow maximum glass area and can reduce the quantity of vents required
- Maximum weight 200kg
- * A case study carried out by Arup based on a typical classroom reported free air flow of 560 litres/sec for parallel opening windows compared to 290 litres/sec for top hung windows of an equivalent size.

Similarly, air changes within the classroom were reported as 10.9 per hour for the parallel window design compared to 5.7 for the equivalent sized top hung windows.

Roberts K. CFD Comparative Analysis of Parallel & Top Hung

Operational Safety

The AA®720 Parallel Opening Window operating forces have been independently tested with vent sizes up to a maximum of 1500mm wide x 2400mm high falling within the 100N operating force requirement for manual operation**. The AA®720 Parallel Opening Window can also be used with automatic operators for operating forces greater than 100N or in places of restricted access.

** Size and weight dependant

Windows are restricted to 80mm clear opening as standard giving the confidence of safe operation for all users while further enhancing the security of the window.

Security**

The AA®720 Parallel Opening Window has been independently tested to PAS 24:2016.

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

Secured by Design



Official Police Security Initiative



The AA®720 Parallel Opening Window

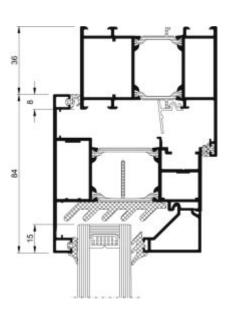
AA®720 Parallel Opening Window Applications

Typical Elevations

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

Elevation		Title V	Vebsite CAD ref. no.
,	1, 2	Jamb Sections	H-001
	3, 4	Head and Cill Sections	H-006
Curtain Weel	5	Cill - POW Insert into Curtain Wa	ill H-003
Gurtain Well	6	Jamb - POW Insert into Curtain \	Wall H-004
	7	Run-Up Blocks	H-002

Frame and Vent Size Options



Associated British Foods Regional HQ, Peterborough

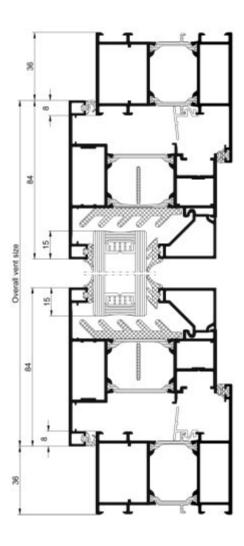
Architect: CPMG Architects
Photo: Martine Hamilton Knight



AA®720 Parallel Opening Window

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

Head and Cill Detail

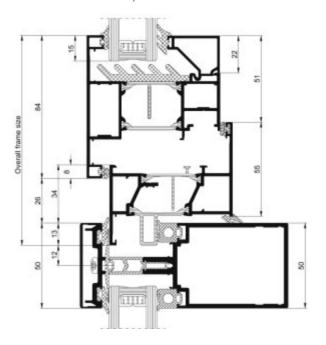




AA®720 Parallel Opening Window

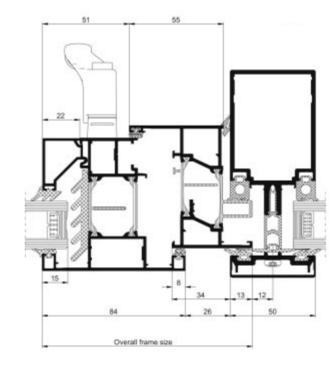
Full details can be downloaded from our website www.kawneer.co.uk

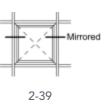
Parallel Opener into Curtain Wall





Parallel Opener into Curtain Wall





AA®720 Inward Opening Window Systems

Introduction

The AA®720 Series has been developed to meet the latest European requirements for thermal performance.

To enable complete flexibility of design, performance and cost, the AA®720 Series is available in four levels of thermal performance – the AA®720, the AA®720 HW, the AA®720 HI and the AA®720 HI Reflex.

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

As well as being fully integrated, the range 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 Open In Tilturn, Turn Before Tilt, Turn Only, Bottom Hung and French Casement, 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. There is also a fire resistant AA®720 FR variant within the range that provides firerated door and fixed screen solutions.

Design variants to the AA®720 inward opening window range are:

- Softline/Design variants with rounded contours
- Concealed Vent variant where vent profiles are not visible from the outside
- Curtain Wall Look-alike variant that offers the appearance of curtain wall
- Two-Stage Open-In Accessibility Vent option, see page 8

For information on Kawneer's AA®720 Series Door Systems please refer to the Door Systems brochure.

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.

Security³

The AA®720 Tilturn Window has been independently tested to PAS 24:2016.

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

Secured by Design



Official Police Security Initiati

Independently Weather Performance Tested to BS 6375-1: 2015

	Air Infiltration	Watertightness	Wind Resistance
	BS EN 12207	BS EN 12208	BS EN 12210
AA®720 Tilturn	Class 4 (600 Pa)	Class E1200 (1200 Pa)	Class E2400 (2400 Pa)

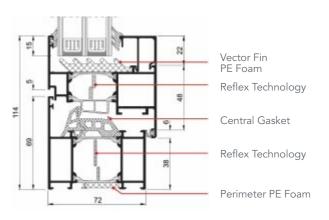
Window complies with Operation and Strength Test BS 6375 Pt2: 2015

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

Thermal Performance - Inward Opening

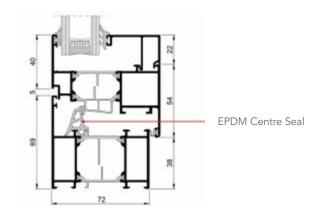
AA®720 HI Reflex Tilturn





AA®720 Tilturn





The AA®720 Reflex Technology

Due to the anticipated amendments to Approved Document L, and the continued market demands for high performance windows, Kawneer has developed a unique system it can apply to it's polyamide thermal breaks to give further thermal improvements to the window, and reduce heat transfer through the profile.

The inclusion of a low emmisivity reflective foil to the thermal 'flags' allows the AA®720 Tilturn to achieve U-values as low as 1.0 W/m²K for a CEN size window with a warm edge spacer**

Additional Product Features

In addition to the features described, the AA®720 Tilturn Window offers market leading weight capabilities for a top hung window. With a capability of up to 130kg, high performance acoustic and/or security glass applications can be easily accommodated within the standard window without additional reinforcements or fabrication requirements.

With a choice of locking or non locking handles in a range of finishes, the system can be incorporated effectively in a number of applications.

The AA®720 Tilturn Window has been designed with flexibility and ease of fabrication as key requirements. The system is internally glazed and incorporates a standard hardware groove, to provide cost effective locking hardware without compromising performance or security.

Thermal Performance

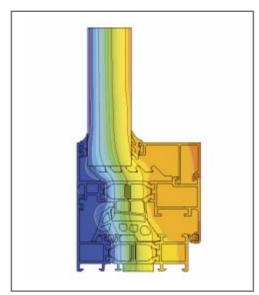
The AA®720 Tilturn can be manufactured within 4 levels of thermal performance – providing flexibility in design, performance and cost.

AA®720 – Most cost effective option – EPDM centre seal.

 $AA^{\circledast}720~HW$ – Greater Performance Level, cost conscious – Closed cell vent perimeter foam, EPDM centre seal.

AA®720 HI – Greater Performance Level – Closed cell vent perimeter foam, dual durometer centre seal.

AA®720 HI Reflex – Highest Performance Level – Reflex Technology within the vent and frame profiles, closed cell PE vector fin glazing rebate foam, closed cell frame perimeter foam insulation tape, dual durometer centre seal.



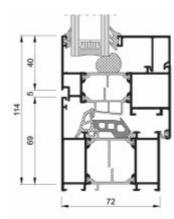
Thermal Evaluation of the AA®720 HI Reflex Tilturn
Window

	Tilt	:urn	HW T	ilturn	HI Ti	ilturn	HI Refle	x Tilturn
Glass	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**	1.0 Ug*	0.6 Ug**
Overall Uw	1.5 W/m ² K	1.2 W/m²K	1.3 W/m²K	1.0 W/m²K	1.3 W/m²K	1.0 W/m ² K	1.3 W/m²K	1.0 W/m ² K

Based on a 34mm Outer Frame/43mm Inside Glaze vent Combination

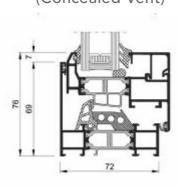
AA®720 Inward Opening Windows

AA®720 HI Standard



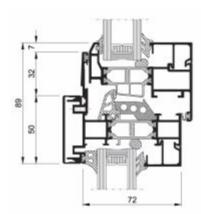
Straight overall contour with flush vent and frame line

AA®720 HI Integral (Concealed Vent)



Narrow sightlines with visible aluminium facet on the vent

AA®720 HI Curtain Wall Look-alike



^{*} Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge (0.048 W/m²K) spacer.

AA®720 Tilturn Window

Introduction

The AA®720 Tilturn Window is part of the AA®720 range of Windows and Doors, designed to offer maximum weather and thermal performance at a competitive price range. Excellent thermal performance (AA®720 HI Reflex) has been met using Reflex technology with foam meeting the most demanding specification performance on any project.

Product Features and Benefits

- BRE Green Guide 'A' Rated Frame** for projects that require sustainable and environmental advantages
- Tilt before turn operation. Tilt for ventilation and turn for cleaning. The full opening in the 'turn' position offers an escape route in an emergency (subject to size)
- Standard bead, Box bead and Softline bead (Softline beads are mitred and secured with retaining clips)
- Excellent thermal performance U_f from 1.0W/m²K (AA®720 HI Reflex)
- Noise protection Rw=39-47dB
- Trickle ventilation option available to help meet the requirements of Document F
- Multi-point locking for added security and added safety in operation
- Accommodates glazing up to 56mm including triple glazing
- Suites with AA®720 series, Juliet Balcony, LouvreShield, AA®100/AA®110 Curtain Walling, 451PT Framing and
- Two-Stage Open-In Accessibility Vent option, see page 8
- Suited Handle Options available, see pages 6 and 7

Vent Size Limitations

All dimensions stated are in millimetres.

All dimensions stated are vent sizes.

Dimensions stated are General System Limitations.

Vent profile and hardware options are chosen depending upon size and glass weight.

- Maximum weight 300kg
- Vent 1600mm x 2100mm
- Leaf 1100mm x 3000mm

The AA®720 Tilturn Window has been independently tested to PAS 24:2016.

* Does not refer to standard hardware, security hardware required

Secured by Design



** 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



Tilturn Product Selector

Performance	AA®720 Tilturn*	
Weather Performance (BS 6375)	•	
Security to PAS 24:2016	•	
Uw (Double Glazing)	1.4 W/m²K	
Uw (Double Glazing with warm edge spacer)**	1.3 W/m²K	
Uw (Triple Glazing)	1.1 W/m²K	
Uw (Triple Glazing with warm edge spacer)***	1.0 W/m²K	
Special Feature		
BRE Green Guide Rating ^o	A	
Design Features		
Dual Colour Option	•	
Composite Windows	•	
Ribbon Windows	•	
Punched Out Openings	•	
Triple Glazing	•	
Infills:	upto 56mm	
Standard Hardware Groove	•	
Multi-Point Locking	•	
100mm Restriction	•	
Trickle Ventilation	•	
Locking Handles		
Butt Hinges		
Multi-function Handle		
Two-Stage Open-In Accessibility Hardware Option¶		
Suited Handle Options‡		
System Depth		
72mm	•	
Maximum Window Sizes●	upto	
Tilturn only●	1600mm(W) & 2100mm(H)	
Side Hung•	1600mm(W) & 2100mm(H)	
Bottom Hung•	2000mm(W) & 1200mm(H)	
Applications		
New Build	•	
Refurbishment	•	
Heavy Commercial		

- Based on the AA®720 HI Reflex
- Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge
- *** U-values based on CEN size windows (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.043 W/m²K) spacer.
- Height and Width Limitations vary dependant on glass weights and hardware requirements please check with the Technical Services Department Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A and A+ for nondomestic schemes. www.thegreenguide.org.uk Element Number 1231500011 (A+) Element Number 1231500007 (A) For the AA®720 Two-Stage Open-In Accessibility Window, see page 8 For the Suited Handle Options, see pages 6 and 7

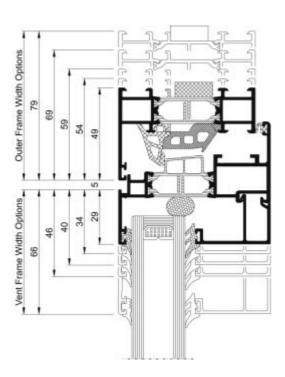
AA®720 Tilturn Window Applications

Typical Elevations

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

Elevation		Title Website C	AD ref. no
	1	Tilturn - Head & Jamb Wall Connection	H1-11
	1	Tilturn - Head & Jamb Wall Connection Adaptor	H1-12
· # 70%	2	Tilturn - Cill detail	H1-13
	3	Tilturn - Vent Muntin	H1-30
	1	Tilturn - Head & Jamb Wall Connection	H1-11
	2	Tilturn - Cill detail	H1-13
$\mathcal{A} \Vdash \blacksquare$	4	Fixed Light - Head & Jamb	H1-14
/ XII - #	5	Fixed Light - Cill Detail	H1-15
	6	Tilturn Vent/Fixed Light - Muntin	H1-17
1	1	Tilturn - Head & Jamb Wall Connection	H1-11
tala	1	Tilturn - Head & Jamb Wall Connection Adaptor	H1-12
	. 2	Tilturn - Cill Detail	H1-13
	7	Tilturn Vent/Tilturn Vent - Muntin	H1-18
1	1	Tilturn - Head & Jamb Wall Connection	H1-11
	1	Tilturn - Head & Jamb Wall Connection Tilturn Head & Jamb Wall Connection Adaptor	H1-11
XI	2	Tilturn - Cill Detail	H1-12
/ >#	8		H1-13
	9	Tilturn Vent/Turn Only Vent Rebate Adaptor Tilturn Vent/Turn Only Vent Rebate Adaptor	
2	9	Tilturn vent/lurn Only vent Repate Adaptor	H1-21
1 1	1	Tilturn - Head & Jamb Wall Connection	H1-11
Δ/III", I	2	Tilturn - Cill Detail	H1-13
/\!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+ 4	Fixed Light - Head & Jamb	H1-14
/ XIII	5	Fixed Light - Cill Detail	H1-15
4 '	10	Tilturn Vent/Fixed Light - Coupling	H1-27
1 1	. 1	Tilturn - Head & Jamb Wall Connection	H1-11
	4	Fixed Light - Head & Jamb	H1-14
	6	Tilturn Vent/Fixed Light - Muntin	H1-17
M+ 1	+ 11	Tilturn Vent/Bottom Hung Vent - Muntin	H1-23
	12	Tilturn Vent Cill/Fixed Light - Muntin	H1-24
	13	Fixed Light - Horizontal Muntin	H1-25
+"	14	Fixed Light - Vertical Muntin	H1-26
,	15	Window Curtain Wall, Muntin/Vent	H1-31
188.00	16	Window Curtain Wall, Muntin/Integral Vent	H1-34
	17	Window Curtain Wall, Cill Detail	H1-32
11.11	18	Window Curtain Wall, Head & Jamb Detail	H1-33
<u> </u>	1	Tilturn - Head & Jamb Wall Connection	H1-11
	19	Barrier Free Balcony Door, Threshold Detail	H1-33

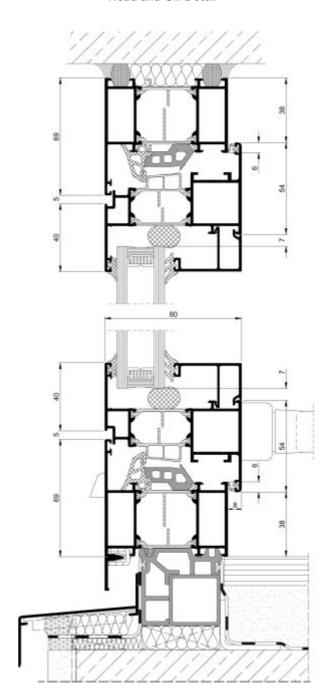
Frame and Vent Size Options



AA®720 Tilturn Window

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

Head and Cill Detail



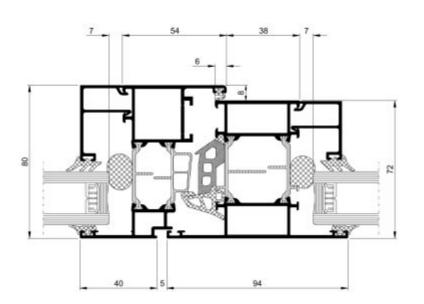


H1-11 and H1-13

AA®720 Tilturn Window

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

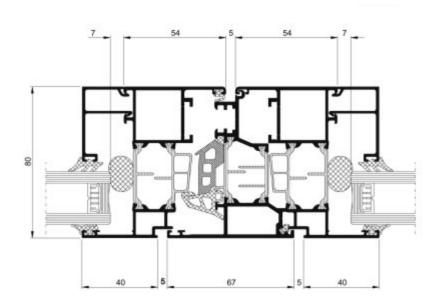
Standard Muntin/Vent Detail





H1-17

Standard, Rebate Adaptor/Vent/Vent Detail



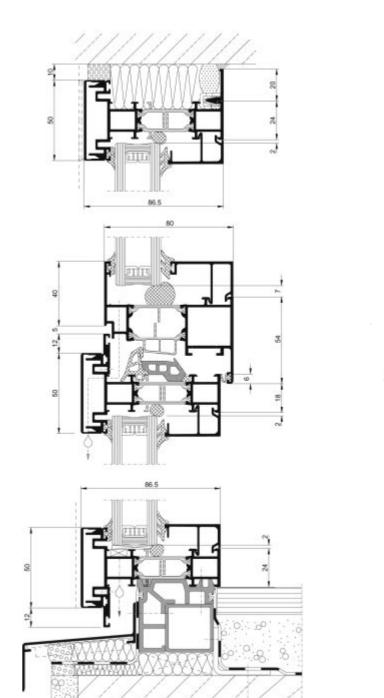


H1-21

AA®720 Tilturn Window

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

Window Curtain Wall - Head, Muntin & Cill Detail





H1-33 Head



H1-31 Muntin with Vent Above



H1-32 Cill

AA®541 Casement Window

Introduction

The AA®541 Casement Window is designed to offer optimum weather and thermal performance at a competitive price. The AA®541 corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A+ for non-domestic schemes**. The AA®541 uses a multi-chamber thermal break core, ensuring thermal efficiency and full compliance with Document L.

The AA®541 Casement is available as a top hung or side hung window and the polyamide thermal break offers single or dual colour options along with enhanced thermal performance. The excellent weather performance ensures that the AA®541 is suitable for low or high rise applications.

Suitable for new build and refurbishment projects, the AA®541 is the window of choice for all applications in the Education, Healthcare, Commercial, Retail and Residential markets where cost is the key driver.

Product Features and Benefits

- BRE Green Guide 'A+' Rated Frame** for projects that require sustainable and environmental advantages
- Multi-point locking for enhanced security in line with PAS 24:2016*
- Optional trickle ventilation to assist in meeting the requirements of Document F
- Espagnolette locking and key locking handles for added security
- Projected top, side hung or butt hinge options for increased project design flexibility and solutions
- Suites with AA®545 Swing Door, AA®100/AA®110 Curtain Walling, 451PT Framing System and Door Systems
- Offset handle position (side hung) for safety in use

- Interlocking wedge spacers for enhanced weather performance even on large windows
- 100mm fixed restrictor with adjustable friction in compliance with BS 8213
- Folding openers with link bars for safety in use
- Accommodates glazing up to 39mm
- Standard hardware groove offering a cost effective hardware solution
- ** 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 1231500011

Construction

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

Weathering is achieved by the use of single and dual durometer, EPDM gaskets – all with non-shrinkage cord.

Pressure equalised system.

Glazing

Glazing and panels up to 39mm thickness can be accommodated.

Security*

The AA®541 Casement Window has been independently tested to PAS 24:2016

* Does not refer to standard hardware, security hardware required

Secured by Design

Independently Weather Performance Tested to BS 6375-1: 2015

	Air Infiltration BS EN 12207	Watertightness BS EN 12208	Wind Resistance BS EN 12210
AA®541 Casement	Class 4 (600 Pa)	Class 9A (600 Pa)	Class E2400 (2400 Pa)

Window complies with Operation and Strength Test BS 6375 Pt2: 2015

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

Window Systems

Casement Product Selector

Performance	AA®720 Casement*	AA®720 SL Casement	AA®541 Casement
Weather Performance (BS 6375)	•	•	•
Security to PAS 24:2016	•	•	•
Uw (Double Glazing)	1.5 W/m ² K	1.6 W/m ² K	1.8 W/m ² K
Uw (Double Glazing with warm edge spacer)*	* 1.3 W/m²K	1.4 W/m ² K	1.6 W/m ² K
Uw (Triple Glazing)	1.2 W/m ² K	1.2 W/m ² K	1.5 W/m ² K
Uw (Triple Glazing with warm edge spacer)***	1.0 W/m ² K	1.1 W/m²K	1.3 W/m ² K
Special Features			
BRE Green Guide Rating ^o	Α	А	A+
Design Features			
Dual Colour Option	•	•	•
Composite Windows			
Ribbon Windows	•		•
Punched Out Openings	•		
Triple Glazing			m+
Infills:	upto 56mm	upto 42mm	upto 39mm
Standard Hardware Groove			
Multi-Point / Single Sided Locking Options	•		•
100mm Restriction	•		•
Trickle Ventilation	•	•	•
Locking Handles	•		•
Folding Openers	•		•
Cockspur Handle	•		
Espagnolette Handle			
Friction Hinges	•		•
Butt Hinges	•		•
Variable Angle Corner Post			
Suited Handle Options‡			
System Depth			
54mm			
72mm	•		
Maximum Window Sizes●	upto	upto	upto
Projected Top Hung•	2300mm(W) x 2500mm(H)	1500mm(W) x 1500mm(H)	1800mm(W) x 1800mm(H
Projected Side Hung•	845mm(W) x 1900mm(H)	900mm(W) x 1500mm(H)	845mm(W) x 1800mm(H
<u> </u>	1800mm(W) x 1600mm(H)	·	1800mm(W) x 1600mm(H
Side Hung with Butt Hinges•	900mm(W) x 1900mm(H)		900mm(W) x 1800mm(H
Applications			
New Build	•	•	•
Refurbishment			•
Notes:			

Note

* Based on the AA®720 HI ReflexPlus

** Window Energy Ratings and U-values based on CEN size windows (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge (0.048 W/m²K) spacer.

*** U-values based on CEN size windows (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.043 W/m²K) spacer.

Optional/Limite

Height and Width Limitations vary dependant on glass weights and hardware requirements – please check with the Technical Services Department
 Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A and A+ for non-domestic schemes. www.thegreenguide.org.uk Element Number 1231500011 (A+) Element Number 1231500007 (A)

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

www.kawneer.co.uk

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AA®541 Casement Window Applications

Website CAD ref. no.

Typical Elevations

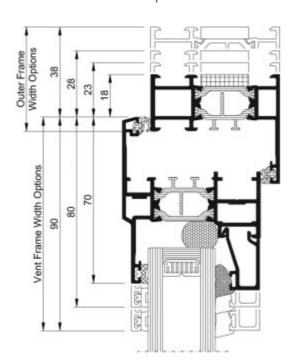
Elevation

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

Elevation		TITLE	Website CAD ret. no.
3 4	1, 2 3, 4	Fixed (Inside glaze) Fixed (Inside glaze)	H03.01 H04.01
2 5		5: 1/0 : 1 - 1	
7——8	5, 6 7, 8	Fixed (Outside glaze) Fixed (Outside glaze)	H05.01 H06.01
	9	Windows into curtainwall	H07.01
90°	10	Fixed light panels 90° corner coupling	H08.01
11	11	Fixed light panels variable corner coupling	H09.01
12	12	Glazed muntin and coupling alternatives	H10.01-H16.01
15	13 15	Cill detail options Night ventilation	H17.01 H19.01
13	14	Horizontal coupling detail	H18.01
18 19	16, 17 18, 19	Top hung Top hung	H20.01-H21.01 H22.01
22 - 23	20, 21 22, 23	Side hung Side hung	H22.01-H23.01 H21.01 & H23.01
31	24	Fixed/vent coupling transom	H30.01
24	31	Fixed/vent coupling transom (reverse glazed)	пэ I.U I

Elevation		Title	Website CAD ref. no.
	25	Vent/vent muntin detail	H24.01
35 28	26	Vent/fixed muntin detail	H25.01
27 32	27	Fixed/fixed muntin detail	H26.01
26+ -27-32	32	Vent (reverse glazed)/ fixed muntin	H32.01
	33	Fixed/fixed both reverse glazed	H33.01
	35	Vent (reverse glazed)/	H35.01
		fixed muntin	
	28	Vent/vent muntin detail	H27.01
	29	Fixed/vent muntin	H28.01
2934	34	Fixed (reverse glazed)/ vent muntin	H34.01
30 +	30	Fixed/vent coupling transom	H29.01

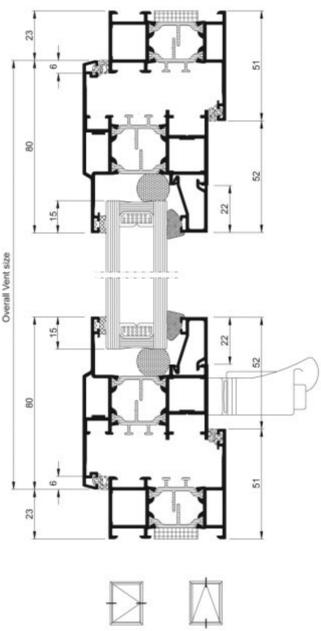
Frame and Vent Size Options



AA®541 Casement Window

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

Top Hung Head & Cill Details Side Hung Details





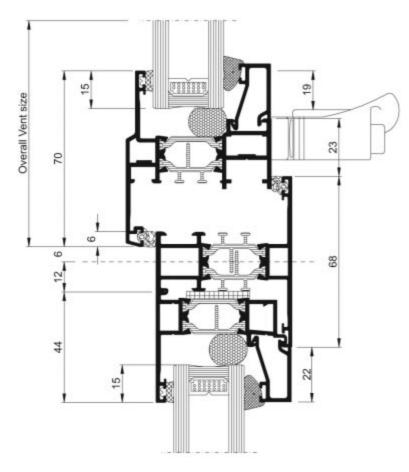
H22.01

Vertical details 20 and 21 Top Hung and horizontal details 18 and 19 side hung inside glazed vent

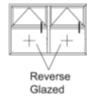
AA®541 Casement Window

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

Reverse Glazing Detail



N.B. Horizontal adaptor rails run through under jamb reverse glaze adaptor rails.



H32.01

Vertical detail 32 – Reverse glaze adaptor. Fixed lights below top hung for "inside glaze"



GT70S Slimline Renovation Window

Introduction

The GT70S Slimline Renovation Window is an elegant aluminium open-in fenestration solution designed specifically to replicate the appearance of steel windows. Suitable for installation in new build or refurbishment projects.

The GT70S uses a multi-chamber thermal break core ensuring thermal efficiency and full compliance with Approved Document L and Scottish Building Standards Part 6. Available as a tilt before turn or turn only window and uses polyamide thermal break offering single or dual colour options.

The products slender sightlines are enhanced further by optional bevelled designed feature caps adding a unique sculptured effect to the external surface of the building.

Product Features and Benefits

- Fine sightline characteristics of steel windows providing a suitable replication for steel windows with additional benefits associated with aluminium, such as the high strength to weight ratio
- Suitable for composite and ribbon windows
- Available as a tilt before turn or turn only window
- A range of structural and coupling mullions available
- Special bevelled beads, or feature caps, add a unique sculptured appearance to the building. Ideal for heritage projects
- Concealed drainage system to enhance the building's aesthetics
- Accommodates glazing up to 64mm

Construction

Framing construction incorporates a multi-chamber thermal break core ensuring thermal efficiency and full compliance with Document L. All frames have mechanically jointed and adhesive corners. Installation can be by the direct fix method or by twist in fixing lugs.

Configurations

The GT70S Slimline Renovation Window offers the following design configurations:

Inward Opening

- Tilturn
- Tilturn (Side Hung)
- Tilturn (Bottom Hung)

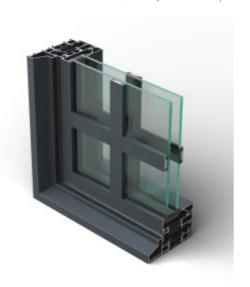
Glazino

Accommodates glazing up to 64mm. Box bead option for enhanced security.

Security

Independently tested by a UKAS accredited testing authority to PAS 24:2016.

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



GT70S Slimline Renovation Open In

Independently Weather Performance Tested to BS EN 12207: 2016

	Air Infiltration	Watertightness	Wind Resistance
	BS EN 12207	BS EN 12208	BS EN 12210
GT70S Slimline Renovation (Open In)	600 Pa	600 Pa	2400 Pa (Windload)* 1750 Pa (Safety)*

^{*} This is dependant upon correct mullion and transom selection to suit span and spacing per project

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

Product Selector

Performance	GT70S Reflex I	GT70S Reflex I+		
Weather Performance (BS EN 12207)	•	•		
Security to PAS 24:2016				
Uw (Double Glazing with warm edge spacer)*	1.5 W/m²K	1.4 W/m²K		
Uw (Triple Glazing with warm edge spacer)**	1.2 W/m²K	1.1 W/m²K		
Special Features				
BRE Green Guide Rating ^o	A	Α		
Design Features				
Dual Colour Option	•	•		
Composite Windows		•		
Ribbon Windows		•		
Punched Out Openings	•	•		
Triple Glazing	■+	# +		
Infills:	upto 64mm	upto 64mm		
Standard Hardware Groove		•		
Multi-Point / Single Sided Locking Options	•			
100mm Restriction	•	•		
Trickle Ventilation	•	•		
Locking Handles	•	•		
System Depth				
72mm	•	•		
Maximum Window Sizes●	upto	upto		
Tilturn●	1550mm(W) & 2200mm(H)	1550mm(W) & 2200mm(H)		
Tilturn (Side Hung)●	1550mm(W) & 2400mm(H)	1550mm(W) & 2400mm(H)		
Tilturn (Bottom Hung)●	2400mm(W) & 1200mm(H)	2400mm(W) & 1200mm(H)		
Applications				
New Build	•	•		
Refurbishment	•	•		

Notes:

- * Window Energy Ratings and U-values based on CEN size inward opening (1230mm x 1480mm) using 1.0 W/m²K double glazing with warm edge (0.036 W/m²K) spacer.
- ** U-values based on CEN size inward opening (1230mm x 1480mm) using 0.6 W/m²K triple glazing with warm edge (0.036 W/m²K) spacer.
- + Optional/Limited
- Height and Width Limitations vary dependant on glass weights and hardware requirements please check with the Technical Services Department
 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

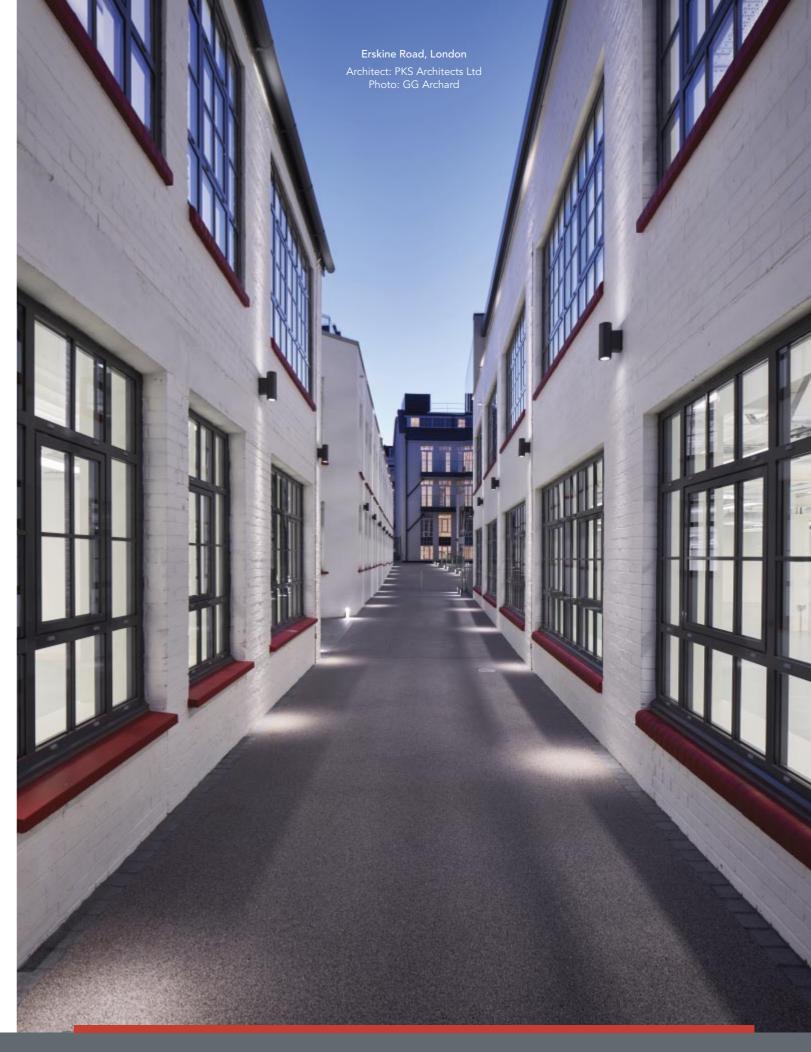


GT70S Slimline Renovation Window Applications Available in Tilturn, Turn Before Tilt, Turn Only (In) and French Casement

Typical Elevations

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

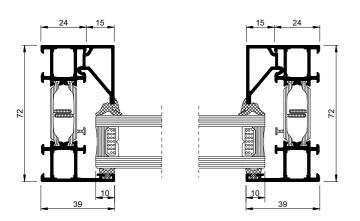
Elevation		Title	GT70S	GT70S Steel Look Renovation	Elevation		Title	GT70S	GT70S Steel Look Renovation
3	1 2 3	Tilturn Head Detail Tilturn Cill Detail Tilturn Jamb Detail	PMH-004 PMH-004 PMH-005	PMH-020 PMH-019 PMH-021	13	13	Tiltum/ Tilturn Transom	PMH-010	
5 5 6	5	Fixed Light Head (Inside Glazed) Fixed Light Sill (Inside Glazed)	PMH-006 PMH-006	PMH-017 PMH-016	90°	14	90° Corner/ (Tilturn/ Fixed Light)	PMH-032	PMH-033
7 - 8	7,8	Fixed Light Jamb (Inside Glazed)	PMH-007	PMH-017	135	15	135° Corner/ (Tilturn/ Fixed Light)	PMH-034	PMH-035
,	9	Tiltum/ Fixed Light Muntin	PMH-008	PMH-022		16	Tilturn Curtain Wall Insert - Head	PMH-078	
	1 10 11 12	Tiltum/ Fixed Light Transom Fixed Light/ Fixed Light Muntin Fixed Light/	PMH-009 PMH-014 PMH-013	PMH-023	16				
10 12		Fixed Light Transom			17 TRICK! 5	17	Trickle Ventilation	PMH-030	PMH-080



GT70S Slimline Renovation Window

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

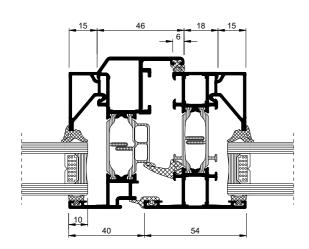
Jamb Detail (Fixed Light)





PMH-007

Jamb Detail (Tilturn next to Fixed Light)





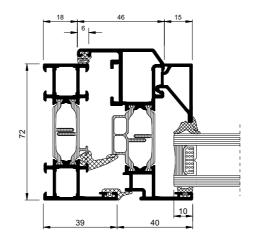
PMH-008

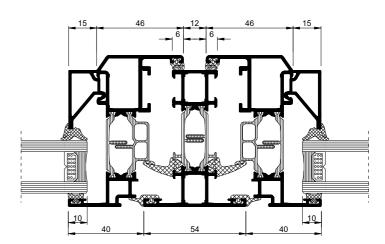
GT70S Slimline Renovation Window

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

Jamb Detail (Tilturn)

Jamb Detail (Tilturn next to Fixed Light)







PMH-005



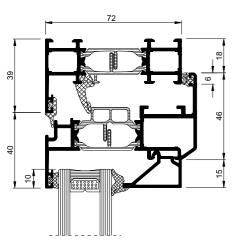
PMH-010



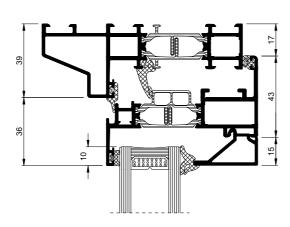
GT70S Slimline Renovation Window

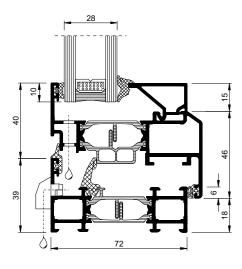
Full details can be downloaded from our website www.kawneer.co.uk

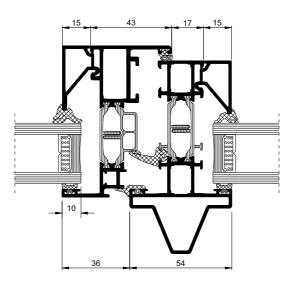
Head and Cill Details



Steel Look Renovation Option











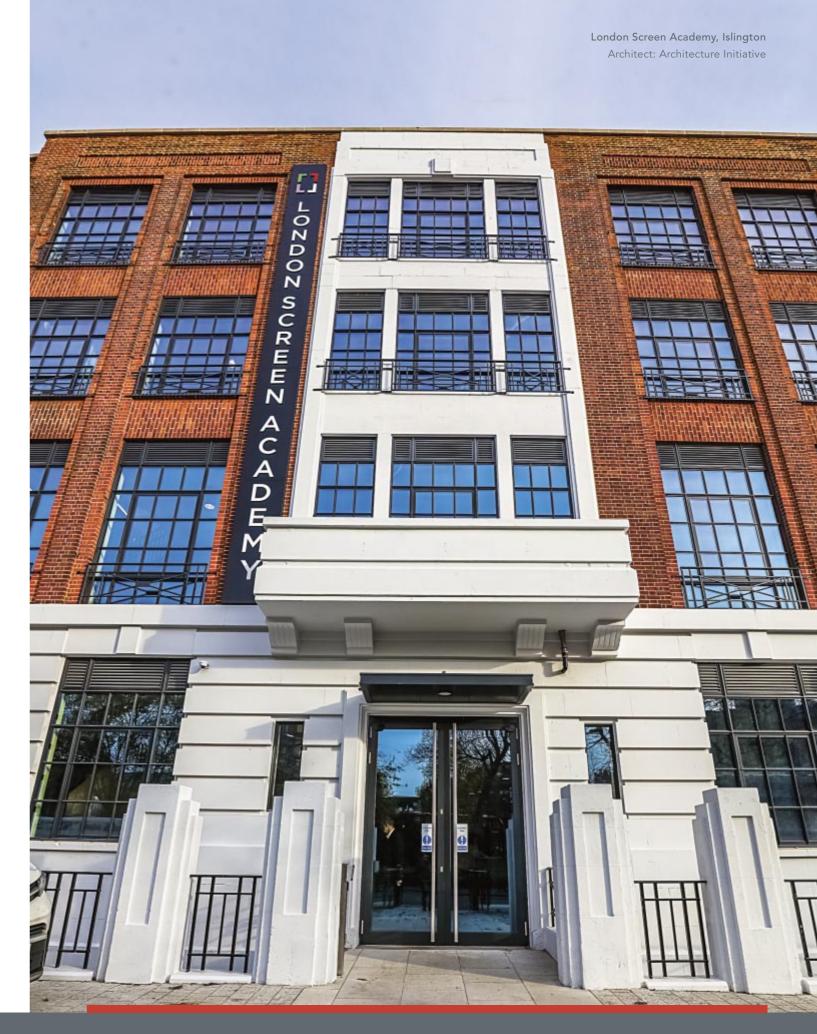
PMH-004





PMH-020

PMH-022



Case Study - The Copper House, Liverpool

Kawneer systems help set new standards by the River Mersey

A diverse range of systems by Kawneer were specified for a landmark BTR (Build-to-Rent) residential development overlooking Liverpool's iconic waterfront.

Kawneer's AA®100 curtain wall, AA®720 windows and doors, AA®541 window vents and AA®190 TB doors all feature on the £60 million Copper House at 21 Strand Street, designed by Leach Rhodes Walker architects and developed over three years by main contractor GRAHAM.

The Kawneer systems were installed by approved specialist subcontractor FK Group. These included AA®100 zonedrained curtain wall on the ground, second and third storeys, AA®720 top-hung casement and fixed light windows at the rear of the building, and AA®720 single and double-leaf doors on the first and sixteenth floors. AA®541 casement vent inserts also featured in the curtain wall on floors one to 16 and AA®190 TB doors to the ground floor screens.

The city centre brownfield site has been transformed into a 29,000m² (GIA) landmark development of 383 apartments for rent over 15 floors, with communal facilities including a residents" lounge and private gym and 1,000ft² of commercial units on the ground floor.

Residents of the one- to three-bedroomed apartments benefit from rooftop facilities – garden space with flexible and fixed seating, booths with fire pits and fire tables, an outdoor covered kitchen, and a multi-use central space for events or exercise, all enclosed by a 2m-high glass balustrade that provides weather protection without detracting from the stunning views of the river and the Albert Dock.

Christian Gilham, Director at Leach Rhodes Walker for the project, said: "We had promised the city a high quality, landmark building befitting its fantastic location, and we needed the same high quality materials to accompany the quality of design proposed."

Joe Carroll, Project Architect and designer of the scheme, said: "I am very proud we have realised this exciting and unique design on the prominent site, and being able to specify the quality of façade materials was key in delivering this."

Ralph Sage, Senior Project Leader for Leach Rhodes Walker who are frequent specifiers of Kawneer systems, said the systems were specified for "familiarity, known quality and extensive range" and were a significant feature of the elevational treatment. "They provided the quality feel and appearance appropriate to the prestige location. They also met the security requirements where required and the thermal and acoustic requirements,".

GRAHAM was appointed by joint venture partners Patten Properties and Panacea Property Development on behalf of Invesco Real Estate, the global real estate investment manager, as part of its growing UK residential portfolio. Peter Reavey, Construction Director for GRAHAM, believes The Copper House set a new standard for residential accommodation in Liverpool. "GRAHAM is proud to have delivered this high-quality residential scheme that provides a stunning addition to this iconic part of Liverpool city centre. The Copper House is a stand-out development. The quality of both the design and the build sets it apart, offering future residents a modern living environment with a community feel."

Neil Patten, Joint Managing Director of Panacea Properties, said: "We were ambitious in the vision we set out for The Copper House, and to see it realised in such a spectacular way is something the entire team is very proud of. This has been a long, challenging scheme, but the commitment to get every detail right has paid off considerably. Liverpool now has a sought-after residential development that encapsulates the optimism and ambition of the city.









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 487

Specification for aluminium alloy windows and doorsets

PAS 2

Enhanced security performance requirements for doorsets and windows in the UK

BS 4255 Part 1

Specification for non-cellular gaskets

ASTM C509-94

Specification for cellular gaskets

BS EN ISO 10077 Parts 1 & 2

Thermal performance of windows, doors and shutters. Calculation of thermal transmittance

IFT Guideline WA-01 Eng/2

Uf-values for thermal break metal profiles of window systems, IFT Rosenheim

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.

