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Other brochures available on request from Kawneer are:
- Architectural Aluminium Systems Finishes
- Entrance Doors and Framing Systems
- Curtain Wall Systems
- AA®130 Brise Soleil System Solar Shading for Reduced Solar Heat Gain
- Window Systems
- AA®601TE Parallel Opening Window The Optimum Ventilation Solution for Maximum Air Exchange
- Residential Aluminium Glazing Systems
- Specialist Horizontal Sliding Window Solutions for your Healthcare Project
- Fire Resistant Systems
- Architectural Aluminium Glazing Systems Specification Guide
- Sustainability: Our Total Commitment

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.

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May 2013

Front cover: Dock 9, Erie Basin, Salford Quays BroadwayMalyan Architects
Introduction

Kawneer is one of the UK’s leading architectural aluminium glazing systems manufacturers. We have a long track record of successful project delivery, providing best value and best practice solutions.

Our commitment to developing a Sliding Solutions Range to enhance our product offer is supported by our significant investment in product development. This has been further enhanced by the recent introduction of the AA®3572 Lift/Slide and AA®3720 Folding/Sliding Door solutions.

Sustainability

At Kawneer, we take all our responsibilities very seriously. We’re dedicated to creating products and systems that promote integrated, whole-building design practices.

For our own production, we use recycled aluminium billets 100% of the time and all production waste is recycled. Our extrusions carry a life expectancy of 50 years, significantly higher than other materials - and of course, they’re 100% recyclable.

Aluminium is widely recognised as one of the best materials available for construction. Aside from its practical and energy-saving advantages, it can be recycled repeatedly without loss of properties using just 5% of the energy originally used to mine, smelt and produce it. Aluminium’s natural strength, lightness and durability makes it the ideal material for meeting architectural glazing requirements.

We’re committed to creating products that help comply with BREEAM standards and promote integrated, whole building designs; and with 95% of aluminium in buildings being recycled, architects can design with cradle to cradle lifecycles in mind, helping to achieve green building standards.

For more detailed information on our sustainability credentials, a Sustainability Brochure can be obtained from our Head Office on 01928 502500 or downloaded from our website www.kawneer.co.uk

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Door and Window Sliding Solutions

Standard Sliding Solutions

AA®3720 A folding/sliding door, available in a range of configurations in either open-in or open-out stack variants, developed as a solution for projects that demand the highest levels of thermal and weathering performance at a competitive price. 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.

AA®3572 A lift/slide door developed as a solution for projects that demand the highest levels of thermal and weathering performance. Lift/Slide technology provides effortless operation and enables maximum panel sizes up to 3m x 3m achieving large uninterrupted areas of glazing. It is an ideal space saving solution where safety is a consideration and projecting swing doors are undesirable.

AA®3110 A horizontal sliding window designed to meet the needs of any project that requires maximum ventilation, including general healthcare applications and mental health facilities. Easy to operate functions and compliance with the HTM 55 regulations, the AA®3110 is available as a sliding window or door and can be single or dual colour.

AA®3110HW A horizontal sliding window suitable for use within the Mental Healthcare sector. Our experience has highlighted the need to be flexible with the patients needs whilst ensuring that their safety and well being is paramount and with this in mind we have designed three window security levels giving you a choice to meet your performance and budget needs.

AA®3610 A flexible thermally broken vertical sliding window designed with performance and aesthetics in mind and the product to specify if maximum ventilation is critical to your project requirement. The ease in operation coupled with the air flow makes this window ideal for schools and hospitals.

AA®3610LS A flexible thermally broken vertical sliding window offering 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, again a window ideal for schools and hospitals.

Sustainable Aluminium Glazing Systems

The Quays, Chatham Maritime, Kent
KDS Associates and Wilkinson Eyre Architects

The Shoe Factory, Leicester
Metropolis Architecture
Introduction
The Kawneer AA®3720 Folding/Sliding Door has been developed as 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 eagerly anticipated launch of 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

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

Security
The AA®3720 Folding/Sliding Door is completing a range of stringent laboratory tests carried out by a UKAS accredited testing authority:

- BS EN 1627: 2011
- BS EN 6375-1: 2009
- BS EN 6375-2: 2009

Weather Performance
The AA®3720 Folding/Sliding Door is completing a range of stringent laboratory tests carried out by a UKAS accredited testing authority:

- BS EN 1627: 2011
- BS EN 6375-1: 2009
- BS EN 6375-2: 2009

Product Features

| Highly insulated profiles with U-values as low as 1.8 W/m²K for frame/vent combinations | U-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 up to 1200mm x 2930mm * | Can achieve solutions in the most demanding of applications |
| Slim sightlines - no floating mullions | Reduced metal content and increased fabrication efficiency |
| Stainless steel rollers | Smooth and effortless operation |
| Choice of threshold options | Continuity between internal and external spaces. Rebatable, 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 |

* Dependent upon glass size and weight

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.
AA®3572 Lift/Slide Door System
the panoramic solution for maximum comfort and ease of operation

Introduction
The Kawneer AA®3572 Lift/Slide Door has been developed as 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 and enabling maximum panel sizes up to 3m x 3m and maximum weights up to 400Kg.

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

Product Features

- Highly insulated profiles with U-values as low as 0.8 W/m²K for frame/vent combinations
- Panel sizes up to 3m x 3m
- Panel weights up to 400Kg
- 2 and 3 track options
- In line sliding operation
- Stainless steel rollers
- Low profile thresholds
- Suites with the AA®720 Window Series and AA®100/AA®110 Curtain Walling Systems

With the decisive advantage of...

- U-values as low as 0.8 W/m²K at the maximum panel size (using 0.6 W/m²K triple glazing and Swisspacer V bar)
- Can achieve large, uninterrupted areas of glazing
- Can easily accommodate triple and acoustic glazing up to 56mm
- Arrangements with up to 6 panels
- Safe operation with no interference with internal finishes
- Smooth and effortless operation
- Continuity between internal and external spaces
- Total design flexibility Offering total project solutions

Performance Data

<table>
<thead>
<tr>
<th>Max Vent Size</th>
<th>Max Vent Weight</th>
<th>Double Glazed U-value*</th>
<th>Triple Glazed U-value*</th>
<th>Air Infiltration (DIN EN 12207)</th>
<th>Water-tightness (DIN EN 12208)</th>
<th>Wind Resistance (DIN EN 12210)</th>
<th>Security Classification (ENV 1627)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3m x 3m</td>
<td>400Kg</td>
<td>1.4 W/m²K</td>
<td>0.83 W/m²K</td>
<td>Class 4</td>
<td>Class 9A</td>
<td>Class C3</td>
<td>WK2</td>
</tr>
</tbody>
</table>

* U-values based on a 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.
**Introduction**

Special projects need special products and the AA®3110 horizontal sliding window is just that – a product 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 unique perforated wrap around gasket design ensures that the gasket cannot be taken out, for potential self harm. The AA®3110 is the product that you can specify with confidence when specifying demanding healthcare projects. The AA®3110 is available as a sliding window or door that can be single or dual colour. We are happy to work with your design team to meet your special project requirements.

**Product Features**

- Unique perforated wrap around glazing gasket
- Stainless steel track with adjustable wheels
- Double or single sliding options, including 3 or 4 door options
- Option for operation from both inside and outside
- Self regulation ventilator in line with wind pressure
- Dual colour option
- Window when open does not project into the building
- Glazing up to 33mm suitable for specialist and safety glazing and interstitial blinds

**With the decisive advantage of…**

- Required when an anti-ligature solution is essential when handling demanding hospital projects
- Smooth operation designed in line with the end user in mind
- Total flexibility for all project applications. The continuous air flow offers the perfect solution for Document F compliance
- Project solution for balcony applications
- Ideal to maximise air flow and ensure comfort for the occupants
- Can specify a different colour finish for inside and outside
- Ideal when safety is a consideration on a project
- Even the most demanding projects can be accommodated

**Special project support for your healthcare project**

Demanding projects need special support and advice. At Kawneer we have a specialist Specification Team who can give informed advice on your hospital or school requirements, from ventilation to anti-ligature, to ensure the best solution for your particular application.

**Construction**

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

**Weather Performance**

Independently tested at the Building Research Establishment up to the following performance *

- Air Permeability Class 3
- Watertightness Class 9A 600Pa
- Resistance to Windload Class B5

* Performance is dependent on frame and panel combinations

**Security**

Independently tested to ENV 1627 Class 2 by the SKG test institute in the Netherlands.

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

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Neptune Marina, Ipswich
BUJ Architects
Introduction
Kawneer has a long track record of successful project delivery in the Healthcare market, providing best value and best practice solutions.

Working in partnership with several Healthcare Trusts across the UK, Kawneer has developed the AA®3110HW horizontal window with key features which makes this window suitable for use within the Mental Healthcare sector. Our experience has highlighted the need to be flexible with the patients needs whilst ensuring that their safety and well being is paramount. The AA®3110HW is the product you can specify with confidence.

Key Product Features
- Perforated Glazing Gasket
- No Glazing Bead
- Specialist Hardware
- Concealed window locking
- Horizontal Sliding Window - does not open into the room
- Fully tested for safety in use
- Proven in use in even the most stringent conditions
- Excellent weather performance
- Perforated stainless steel mesh

With the decisive advantage of...
- Breaks into harmless pieces when an attempt is made to remove it from the window
- Bead cannot be removed and used as a weapon or for self-harm
- Aesthetically designed handle with no ligature risk
- Locking at 125mm opening offering safety and security *
- No ligature point is formed by the opening of the window
- Giving you peace of mind in even the most stringent conditions. The three security levels offered ensure that you have the flexibility to choose the right solution for each application
- Robust solution to meet the needs of all applications
- Offering you peace of mind and comfort for the end user
- Allows ventilation, visibility and security Stops the flow of contraband in or out of the window

* Locking at 100mm compliant with HTM 55 and BS 8213 is also available

Ventilation
The pursuit of naturally ventilated building solutions has become a vital component when considering the design of hospitals which is driven by a desire for a healthier environment. The purpose of ventilation is to move stale air from within a building replacing it with fresh air from the outside.

Kawneer’s response to this requirement has been the development of key products within its suite of windows including the AA®3110HW Horizontal Sliding window, AA®3610/AA®3610LS Vertical Sliding windows, AA®601TE Parallel Opening Window and the AA®542 and AA®602TE Pivot windows.

Security Level 1
- Double or single sliding windows
- Closed or locked open at 125mm – suitable where nurse operation needs to be a consideration
- Can offer purge ventilation if required
- Permanently restricted at 125mm – can be patient operated
- Purge ventilation not an option for this application
- Secure clip in plates
- Anti-ligature handles and hardware
- Perforated wrap around glazing gasket for sash

Security Level 2
- Single sliding window
- Permanent perforated stainless steel mesh on the outside of the window offers good visibility and ventilation
- Suitable where contraband is an issue
- No visible hardware – free opening for patient operation
- Secure clip in plates
- Anti-ligature handles
- Perforated wrap around glazing gasket for sash

Security Level 3
- Single sliding window
- Anti-ligature handles and hardware
- Perforated wrap around glazing gasket for sash
- Hidden perforated stainless steel mesh (hidden on the other side of the wall)
  - Perforated stainless steel mesh comes across the window on opening
  - No visible mesh – the occupant cannot see the mesh until the window is opened
  - Perforated stainless steel mesh will stop the exchange of contraband whilst maintaining security
  - Window can be opened fully – ideal for ventilation
  - The patient can have full control of the window

The Specifier must ensure that the Security Level chosen is suitable for the occupants for present and future use.

Understanding the individual needs of each project, we have designed three window security levels, giving you a choice to meet your performance and budget needs.

For more detailed information on this product, including our useful ‘Window Product Selector’ please contact us for a copy of our Specialist Healthcare Brochure, please call 01928 502612.
### Introduction
The AA®3610 and the AA®3610LS are the products to specify if maximum ventilation is critical to your project requirements. The ease in operation coupled with the air flow makes 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 polynamide 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.

### Key Product Features of the AA®3610 & AA®3610LS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical sliding window featuring linked, double sliding and fixed lights</td>
<td>Total flexibility for all project applications</td>
</tr>
<tr>
<td>Punched openings coupled or composite units can be accommodated</td>
<td>Options for glazing to comply with thermal and safety glass</td>
</tr>
<tr>
<td>Bead glazing from 24mm-32mm can be accommodated</td>
<td>Can help to replicate traditional wooden sash windows</td>
</tr>
<tr>
<td>Option of integral muntin bar</td>
<td>Better aesthetics</td>
</tr>
<tr>
<td>Concealed drainage</td>
<td>Clean aesthetics</td>
</tr>
<tr>
<td>Option of integral handle pull</td>
<td>Offering exceptional weathering and thermal performance</td>
</tr>
<tr>
<td>Unique interlock design</td>
<td>Offering total project solutions</td>
</tr>
<tr>
<td>Flush opening, no intrusion into or out of the building</td>
<td>No damage or interference with internal furnishings or blinds Added safety in use in ground floor applications</td>
</tr>
<tr>
<td>Suites with Kawneer Curtain Wall and Framing products</td>
<td>Total design flexibility</td>
</tr>
</tbody>
</table>

### Product Selector

<table>
<thead>
<tr>
<th>AA®3610</th>
<th>AA®3610LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torso and Ultra lift solutions available offering smooth operation to suite all project applications</td>
<td></td>
</tr>
<tr>
<td>Single sliding option</td>
<td></td>
</tr>
<tr>
<td>Locking fitch catch hardware available offering security in line with BS 7950: 1997 Amendments 1, 2 &amp; 3</td>
<td></td>
</tr>
<tr>
<td>Option to open at 100mm, can comply with HTM 55 and BS 8213</td>
<td></td>
</tr>
<tr>
<td>Ease of use, one operation gives high and low single sided ventilation, not reliant on the occupant opening multiple vents</td>
<td></td>
</tr>
<tr>
<td>High level ventilation at no extra cost, negates the need for actuators or remote gear operation to be fitted</td>
<td></td>
</tr>
<tr>
<td>Tested to equivalent of 75 years keeping maintenance costs to a minimum</td>
<td></td>
</tr>
<tr>
<td>Option of trickle ventilation</td>
<td></td>
</tr>
</tbody>
</table>

* Does not refer to standard hardware, security hardware required

### 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.

### 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.

### Weather Performance

The AA®3610 is independently tested at the Building Research Establishment.

Air Permeability Class 3

Watertightness Class 9A 600Pa

Resistance to Windload Class B5
Supporting Your Projects

Single Source Responsibility
Kawneer is an ISO 9001 company. We provide a unique single source responsibility for product design, extrusion and finishing. In addition we offer technical support tailored to the needs of your project, large or small.

Our experienced designers consistently provide responsible solutions through the development of safe products with full consideration for the end-user.

Kawneer is also accredited to Environmental Standard – ISO 14001 (2004 Version).

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@alcoa.com

Information on Kawneer’s extensive range of Curtain Wall, Window, Framing and Door solutions can also be obtained from our Head Office by calling:

Tel: 01928 502612

Kawneer UK Ltd is part of Alcoa Building and Construction Systems, and enjoys the extensive resources of the entire Alcoa 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.

Kawneer Installation Certificate (KIC)
Quality is the bedrock of our business and through KIC training we create an environment of best practice in standardised installation.

This intensive two day training course, available to Main Contractors and Installers, is designed to provide a structured, strategic approach to the installation of Kawneer products and is aimed at individuals who are involved with the installation process, i.e. Project Managers, Contract Managers/Supervisors, Installation Team Foremen and Installers.

The course is rigorously assessed to ensure quality and those that pass are awarded a photographic ID card which is then valid for 3 years.

For further information on our KIC Course please contact our Technical Department on:

Tel: 01928 502500 / Fax: 01928 502501
Email: kuk.kawneer@alcoa.com

Nationwide Network of Approved Specialist Contractors
Our fabricators and installers are fully trained prior to approval, and regularly undergo top-up courses to ensure that their skill levels have been maintained as well as receiving instruction on new products, product modifications or regulation changes. All training will be provided by CWCT approved Kawneer staff.

A full range of guaranteed colours available
Kawneer Permacover™ is a high quality polyester powder paint finish, offering over 200 paint colours of which 23 are metallic and 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.

For more information, please visit our website at www.kawneeruk.com