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Other brochures available on request from Kawneer are:
- Architectural Aluminium Systems Finishes
- Door & Entrance Systems
- Curtain Wall Systems
- New AA®3610LS Linked Sash Vertical Sliding Window
  The Optimum Ventilation Solution for your Education and Health Projects
- Specialist Horizontal Sliding Window Solutions for your Healthcare Project
- Architectural Aluminium Glazing Systems Specification Guide

Specialist Kawneer Contractor:

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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September 2010
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Introduction

Kawneer, a global systems company

Kawneer offers a comprehensive range of architectural aluminium building products and systems for commercial construction - entrances, framing systems, windows and curtain wall systems.

Since its beginnings over a century ago, Kawneer has been recognized as an innovator. Through the years, we’ve balanced experience with innovation. We’ve listened to our customers, and we are dedicated to providing the tools our customers need to succeed.

Our unrivalled team has a wealth of experience working closely with architects, contractors and clients to develop project solutions from their earliest concepts. We are committed to injecting innovation into new product development to ensure our products meet the most exacting engineering and technical standards whilst overcoming sophisticated design challenges. Kawneer’s global design expertise, combined with aluminium’s flexibility and recyclability, makes our building systems and products the right solutions for today and tomorrow.

Committed to the success of your project

Kawneer products are made from materials of the highest quality and designed with the benefit of many years of construction experience. Because we control every stage of the process, from mining the bauxite ore through to designing individual systems, we offer a unique resource to architects and contractors. Our engineers and designers can support you through every stage of the design and installation process, ensuring a successful outcome.

Need something special?

Kawneer offers the world’s greatest pool of talent in architectural glazing systems, and we can design custom solutions that will help you to realise your most daring concepts. So don’t compromise - by working with Kawneer you can achieve a solution to your most challenging architectural concept.

Total Performance

High performance is an essential ingredient for all building components today – it is demanded by users and required by current building regulations. Throughout our history we have kept ahead of both the market and regulatory requirements to offer glazing solutions that surpass even the most demanding specifications, and our products meet or exceed all required standards of thermal performance. We have developed leading-edge production techniques to ensure that manufacturing efficiency is optimised, and environmental impact is minimised, and our right-first-time quality management systems have been devised to minimise waste and exceed the requirements of current ISO 9001 standards.

Why Aluminium?

Kawneer has been producing advanced glazing solutions in this versatile material for many decades. Aluminium is a near-perfect material for architectural glazing products, and has practical advantages over all other available choices, including inherent resistance to corrosion and very low whole-life costs. Aluminium is also an environmentally friendly material and possibly one of the best options for energy saving within the construction industry. In the building sector vast amounts of aluminium are collected for recycling, with rates as high as 92-98%, and more than 50% of the energy used in aluminium production comes from hydro-electric schemes.
AA®600TE Series Window & Door Systems

Introduction
The Kawneer AA®600TE Series has been designed to give specifiers a totally integrated system.
It has been developed to set new standards in window and door systems through its unrivalled flexibility of design and outstanding weather and thermal performance.
The Kawneer AA®600TE Series is a high performance, totally integrated and fully co-ordinated window and door system. A polyamide thermal break offers dual colour and enhanced thermal performance.
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.

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 50mm thickness can be accommodated.

Independently Weather Performance Tested to BS 6375-1: 2009

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>AA®601TE Casement</td>
<td>Class 4</td>
<td>Class 9A</td>
<td>Class AE2400</td>
</tr>
<tr>
<td>AA®602TE Pivot</td>
<td>Class 4</td>
<td>Class 9A</td>
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</tr>
<tr>
<td>AA®403TE Tilt</td>
<td>Class 4</td>
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<tr>
<td>AA®403TE Tilt Slide 2-pane</td>
<td>Class 4</td>
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<tr>
<td>AA®403TE Tilt Slide 4-pane</td>
<td>Class 4</td>
<td>Class 9A</td>
<td>Class CE2400</td>
</tr>
</tbody>
</table>

All Windows comply with Operation and Strength Test BS 6375 Pt2.
Details of the Kawneer product tests are available from the Technical Services Department at Runcorn.
Kawneer’s AA®601TE Casement Window is a member of the AA®600TE Series Window & Door System designed to optimise thermal performance in compliance with Document L and Scottish Building Standards Part 6.

The AA®601TE Casement is available as a top or side hung window and can be single or dual colour with a polyamide thermal break for excellent thermal performance.

**Product Features**

- Multi-point locking with corner drive
- Optional trickle ventilation
- Espagnolette locking and key locking handles
- Projected top hung or side hung or butt hinge options
- Suites with AA®602TE Pivot, AA®603TE Tilturn, AA®605TE Door, Kawneer Curtain Walling and 451PT Framing
- Fireman’s axe handles as an option
- Offset handle position
- Interlocking wedge spacers
- Fixed restrictor with adjustable friction
- Stays with adjustable friction
- Folding openers with link bars
- Colour co-ordinated handles and hinges

**Security**

Kawneer’s AA®601TE Casement Window has been tested to BS 7950: 1997 - Amendments 1, 2 & 3.

* Security in line with BS 7950-1997 amendments 1, 2 & 3.

With the decisive advantage of...

- Security in line with BS 7950-1997 amendments 1, 2 & 3.
- Can help meet the requirements of Document F.
- Total design flexibility.
- Offering total project solutions.
- Can help provide an emergency escape.
- Safety in use.
- Provides enhanced weather performance even on large windows.
- Compliant with the HTM 55 regulations and BS 8213 of 100mm initial opening.
- Can be adjusted to meet the needs of the project application meeting the needs of the end user.
- Offers safety in use.
- Better aesthetics.

* Does not refer to standard hardware, security hardware required.
AA®602TE Pivot Window

**Introduction**

The Kawneer AA®602TE Pivot window is based on the tried and tested design principles of the Kawneer AA®600TE series window and door system. The pivot window is available in horizontal or vertical applications which makes it a suitable window for most instances.

The AA®602TE pivot is especially user friendly with the chamfered vent for ease of operation; this with the unique gasketed pivot that remains watertight without the use of sealants gives the end user peace of mind.

**Product Features**

- Horizontal and vertical pivot option
- Chamfered vent
- Option of Trickle ventilation
- Multi-point locking with corner drives
- Available with integral automatic restrictor with 10° and 15° and reverse stop at 170° with integral adjustable friction mechanism active from 0° to 170°
- Option of two safety face mounted restrictors
- The pivot operation is exclusively designed for Kawneer
- Colour co-ordinated pivots and handles
- Adjustable friction on the pivot mechanism
- Suits with AA®601TE Casement, AA®603TE Tiltum, AA®605TE Door, Kawneer Curtain Walling and 451FT Framing

**With the decisive advantage of...**

- Total flexibility
  - Can offer continuous air flow assisting compliance to Document F
- Offers excellent aesthetics coupled with smooth and positive operation for the end user
- Can help meet the requirements of Document F
- Added security
- Offers safety in operation and use
- Offers safety in operation and compliance with HTM 55 and BS 8213 of 100mm initial opening
- Designed to suit the extrusion for exceptional aesthetics and performance
- Aesthetics to suit project requirements
- Can be adjusted to meet the needs of the project application meeting the needs of the end user
- Total design flexibility
  - Offering total project solutions
- Total flexibility
  - Can offer continuous air flow assisting compliance to Document F
Introduction
The Kawneer AA®603TE Tiltturn window (tilt in for ventilation – turn in for cleaning) is the ideal solution for ground floor applications where an outward opening window could cause injury to passers by. It is also ideal for multi-storey applications as the window can be cleaned safely from inside the building with the window in the turn mode.

The AA®603TE Tiltturn is suitable for new build or refurbishment projects.

Product Features
- Tilt before turn operation. Tilt for ventilation and turn for cleaning
- Optional trickle ventilation
- Top arm locator
- Suites with AA®601TE Casement, AA®602TE Pivot, AA®605TE Door, Kawneer Curtain Walling and 451PT Framing
- Multi-point locking and optional security hardware
- Multi-function handle
- Option of concealed hinges

With the decisive advantage of...
- Draught free baffled ventilation and safety in operation and use. The full opening in the 'turn' position offers an escape route in an emergency (subject to size)
- Can help meet the requirements of Document F
- Offering anti-slam and positive ventilation position
- Total design flexibility
- Security in line with BS 7950: 1997 Amendments 1, 2 & 3 *
- Offering locked, turn lock and open modes
- Aesthetics

Security
Kawneer’s AA®603TE Tiltturn Window has been tested to the BS 7950:1997 Standard, incorporating Amendment Nos 1, 2 & 3 - Specification for enhanced security performance, proven by stringent laboratory testing, carried out at the Building Research Establishment (BRE).

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

Security
Kawneer’s AA®603TE Tiltturn Window has been tested to the BS 7950:1997 Standard, incorporating Amendment Nos 1, 2 & 3 - Specification for enhanced security performance, proven by stringent laboratory testing, carried out at the Building Research Establishment (BRE).

* Does not refer to standard hardware, security hardware required.
AA®540 Series Window System

Introduction

The Kawneer AA®540 Series 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®540 has been designed with aesthetics and energy efficiency in mind to ensure compliance with today’s stringent performance requirements.

Suitable for new build and refurbishment projects, the AA®540 is the window of choice for all applications. Consisting of a Casement and Pivot window within the same suite, the AA®540 is suitable for Education, Healthcare, Commercial, Retail and Residential markets where cost is the key driver.

A polyamide thermal break offers the option of single and dual colour along with enhanced thermal performance. The excellent weather performance ensures that the AA®540 system is suitable for low or high rise applications. It is designed to suite with Kawneer’s curtain wailing, framing and door products ensuring total flexibility in application.

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.

Independently Weather Performance Tested to BS 6375-1: 2009

<table>
<thead>
<tr>
<th>AA®541 Casement</th>
<th>AA®542 Pivot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Infiltration</td>
<td>Wind Resistance</td>
</tr>
<tr>
<td>BS EN 12207: 2000</td>
<td>BS EN 12210: 2000</td>
</tr>
<tr>
<td>Class 4</td>
<td>Class AE2400</td>
</tr>
<tr>
<td>Watertightness</td>
<td>Wind Resistance</td>
</tr>
<tr>
<td>BS EN 12208: 2000</td>
<td>BS EN 12210: 2000</td>
</tr>
<tr>
<td>Class 9A</td>
<td>Class AE2400</td>
</tr>
</tbody>
</table>

All windows comply with Operation and Strength Test BS 6375 P12

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

* www.thegreenguide.org.uk Element Number 831500023
AA®541 Casement Window

Introduction
The Kawneer AA®541 Casement Window is part of the Kawneer AA®540 Series window range 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, the polyamide thermal break offers single or dual colour options.

Product Features
- BRE Green Guide ‘A’ Rated Frame **
- Security in line with BS 7950:1997 Amendments 1, 2 & 3 *
- Optional trickle ventilation
- Can help meet the requirements of Document F
- Espagnolette locking and key locking handles
- Total flexibility suits most casement project applications
- Suites with AA®542 Pivot, AA®100/AA®110 Curtain Walling, 451PT Framing System and Door Systems
- Total design flexibility Offering total project solutions
- Offset handle position (side hung)
- Safety in use
- Interlocking wedge spacers
- Provides enhanced weather performance even on large windows
- Restriction to 100mm
- Compliant with the HTM 55 regulations and BS 8213 of 100mm initial opening
- Folding openers with link bars
- Offers safety in use
- Standard hardware groove
- Cost effective hardware solution
- Glazing 6mm - 39mm
- Total flexibility to suit most glass applications

** 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 831500023

Security
Kawneer’s AA®541 Casement Window has been tested to BS 7950. 1997 – Amendments 1, 2 & 3.

With the decisive advantage of...
- For projects that require sustainable and environmental advantages
- Infill up to 39mm
- Infill up to 50mm
- 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
- System Depth
- 54mm
- 47mm

Maximum Window Sizes *
- Projected Top Hung 1800mm x 1800mm 2300mm x 2300mm
- Projected Side Hung 845mm x 1800mm 890mm x 1800mm
- Top Hung with Butt Hinges 1500mm x 1600mm 1800mm x 1600mm
- Side Hung with Butt Hinges 900mm x 1600mm 900mm x 1600mm

Applications
- New Build
- Refurbishment

Notes: * - Optional/Limited
* - Dependant on Glass Size and Weight
** - Calculated using TGI-Spacer
◆ - Available from Quarter 4, 2010
● - 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 831500023

Casement Product Selector

Performance AA®541 Casement AA®601TE Casement
Weather Performance (BS 6375) • •
Security to BS 7950 • •
Capable of achieving U-Value 1.7 W/m²K 1.6 W/m²K ◆
Warm Edge Spacer ** 1.5 W/m²K 1.5 W/m²K ◆

Special Features
- BRE Green Guide ‘A’ Rated Frame ■
- Blast Enhanced Applications •

Design Features
- Dual Colour Option ••
- Composite Windows •
- Ribbon Windows (Independently Tested) •
- Punched Out Openings •
- Colour Co-ordinated Hardware •
- Triple Glazing ◆
- Infill up to 39mm •
- Infill up to 50mm •
- 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 •
- System Depth
- 54mm •
- 47mm •

AA®601TE Casement

Warm Edge Spacer ** 1.5 W/m²K 1.5 W/m²K ◆

Notes: ◆ - Available from Quarter 4, 2010
AA®542 Pivot Window

Introduction
The Kawneer AA®542 Pivot Window is part of the Kawneer AA®540 Series window range designed to offer optimum weather and thermal performance at a competitive price. The AA®542 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®542 uses a multi-chamber thermal break core, ensuring thermal efficiency and full compliance with Document L.

Product Features
With the decisive advantage of …

- BRE Green Guide ‘A’ Rated Frame *
- Horizontal and vertical pivot option
- Option of trickle ventilation
- Multi-point locking or storm catch option
- Available with integral automatic 10° and 15° restriction and a reverse stop at 170°
- Adjustable friction on the pivot mechanism
- The pivot operation is exclusively designed for Kawneer
- Suites with AA®541 Casement, AA®100/AA®110 Curtain Walling, 451PT Framing System and Door Systems

The AA®542 Window is available for both horizontal pivot and vertical pivot applications, which makes it the ideal choice where natural ventilation is a key project requirement.

Pivot Product Selector

<table>
<thead>
<tr>
<th>Performance</th>
<th>AA®542 Pivot</th>
<th>AA®602TE Pivot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather Performance (BS 6375)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Capable of achieving U-Value</td>
<td>1.7 W/m²K</td>
<td>1.7 W/m²K</td>
</tr>
<tr>
<td>Warm Edge Spacer **</td>
<td>1.6 W/m²K</td>
<td>1.6 W/m²K</td>
</tr>
<tr>
<td>Special Feature</td>
<td>BRE Green Guide ‘A’ Rated Frame</td>
<td>•</td>
</tr>
</tbody>
</table>

Design Features

- Dual Colour Option
- Composite Windows
- Ribbon Windows
- Punched Out Openings
- Colour Co-ordinated Hardware
- Triple Glazing
- Infills up to 39mm
- Infills up to 50mm
- 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
- 54mm
- 67mm
- Maximum Window Sizes *
  - Height* | 1800mm | 1900mm |
  - Width* | 1800mm | 1900mm |
- Applications
  - New Build
  - Refurbishment

Notes:  
- Optional/Limited  
- * Dependant on Glass Size and Weight  
- ** Calculated using TGI-Spacer  
- • Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A for non-domestic schemes.  
- # Corresponds to the BRE Global Green Guide online generic specification for windows and achieves a summary rating of A for non-domestic schemes.

* 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 831500023  
www.thegreenguide.org.uk  
Element Number 831500023
AA®3610 and AA®3610LS Vertical Sliding Windows

optimum ventilation solutions

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 polyamide thermal break design to give ultimate weather and thermal performance and smooth operation.

The AA®3610LS is a unique solution which opens the top and bottom sashes simultaneously allowing stale air out of the top of the window whilst allowing cool fresh air to be drawn in via the bottom.

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

- Vertical sliding window featuring linked, double sliding and fixed lights
- Punched openings coupled or composite units can be accommodated
- Bead glazing from 24mm-32mm can be accommodated
- Option of integral muntin bar
- Concealed drainage
- Option of integral handle pull
- Unique interlock design
- Flush opening, no intrusion into or out of the building
- Suites with Kawneer Curtain Wall and Framing products

With the decisive advantage of...

- Total flexibility for all project applications
- Options for glazing to comply with thermal and safety glass
- Can help to replicate traditional wooden sash windows
- Better aesthetics
- Clean aesthetics
- Offering exceptional weathering and thermal performance
- No damage or interference with internal furnishings or blinds
- Added safety in use in ground floor applications
- Total design flexibility

Product Selector

<table>
<thead>
<tr>
<th>Torso and Ultra lift solutions available offering smooth operation to suite all project applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single sliding option</td>
</tr>
<tr>
<td>Locking fitch catch hardware available offering security in line with BS 7950: 1997 Amendments 1, 2 &amp; 3</td>
</tr>
<tr>
<td>Option to open at 100mm, can comply with HTM 55 and BS 8213</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>
</tr>
<tr>
<td>High level ventilation at no extra cost, negates the need for actuators or remote gear operation to be fitted</td>
</tr>
<tr>
<td>Tested to equivalent of 75 years keeping maintenance costs to a minimum</td>
</tr>
<tr>
<td>Option of trickle ventilation</td>
</tr>
</tbody>
</table>

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 as independently tested at the Building Research Establishment:

- Air Permeability Class 3
- Watertightness Class 9A 600Pa
- Resistance to Windload Class B5
- Excellent thermal performance and smooth operation
- Integral fixed light option with matching sightlines
- Total design flexibility

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.

* Does not refer to standard hardware, security hardware required
**AA®3110 Horizontal Sliding Window & Door**

**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
- 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

**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

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

**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 advise 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.

**Weathering is achieved by the use of EPDM gaskets and woolpile.**

**AA®3110 Horizontal Sliding Window & Door**

**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 dependant 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**
AA®3110HW Healthcare Window designed in line with the demanding requirements of mental health units

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

With the decisive advantage of...

- 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

* 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 it’s suite of windows including the AA®3110HW Horizontal Sliding window, AA®3610/AA®3610LS Vertical Sliding windows 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)
- Mesh comes across the window on opening allowing good visibility but preventing the flow of contraband in or out of the window
- 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

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.

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

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.
Block B contrasts the arrangement of Kawneer’s windows in block A by inserting vertical strips into the façade to 500mm modules. Various slot views are framed across the water at once, depending on the occupant’s position within a particular room. Architect Neil Brown of Broadway Malyan (now director of nb architects) said: “The Kawneer systems complied very well aesthetically and met all performance requirements as detailed by the acoustics and façade and M&E engineers. “They created a very futuristic appearance in accordance with the original design intent and interface very well with the other materials used on the project. The selection of materials deliberately remained simple to enhance and complement the purity of each of the individual elements of the scheme.”

To help bring a futuristic appearance to the £25 million development of one of the last remaining sites at Manchester’s iconic Salford Quays, Kawneer’s curtain walling, windows and doors featured on the Millennium Estates’ two mixed-use towers next to Erie Basin at Dock 9.

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The curtain walled rainscreen front of block A of 10 storeys, which maintains a very horizontal emphasis, projects over the dockside walkway and cantilevers out akin to a ship launching into water.

The 20 storeys of the predominately white block B hover over a two-storey podium structure that contains car parking for residents and retail units fronting the dockside walkway.

The two towers in total comprise more than 200 apartments including studios and one-to three-bedroomed units as well as 6,000ft² of retail space.

Broadway Malyan Architects designed the two concrete-framed residential towers to contrast in nature and positioning so they would have equal presence on the 0.46-hectare site and as such, block A has been cladded horizontally and block B vertically.

Block A’s apartments have been planned so the living room always has a corner view beyond the balcony towards the dock and Lowry Centre. Each room type has a different Kawneer window arrangement, all to a 500mm module.
AA®603TE Tilt Slide Door

Introduction
The Kawneer AA®603TE Tilt Slide Door is available in a variety of single or double tilt slide combinations providing flexibility to suit individual project requirements.

The Kawneer AA®603TE Tilt Slide Door is especially user friendly. Sliders in the top guide rail and high precision bearings in the wheels ensure that even large and heavy doors operate with ease and very smoothly, giving the end user extra peace of mind.

The Kawneer AA®603TE Tilt Slide Door has been installed in applications such as executive homes, flats and apartments in a variety of colour options.

Product Features

- Tilt for ventilation and slide for access
- The doors can be opened from the inside or outside, allowing internal or external access to the building
- Handles suite with Tilturn window handles
- A spring buffer prevents the sash from being opened too far
- Suites with the AA®601TE Casement, AA®602TE Pivot, AA®603TE Tilturn, Kawneer Curtain Walling and Framing products
- Extremely stable for sash weights up to 150kg

With the decisive advantage of...

- Flexibility
- Ideal choice for balcony doors
- Aesthetics
- Safety in operation and use
- Total design flexibility
- Offering total project solutions
- Large vents can be specified for maximum air flow and light into the building

Construction

The AA®603TE Tilt Slide Door is a pressure equalised system crimped with mechanical corner cleats. Weathering is achieved by the use of single and dual durometer, EPDM gaskets, all with non-shrinkage cord.

Weather Performance

- Air Permeability Grade C
- Watertightness 600Pa
- Resistance to Windload 2400Pa

Construction

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Weather Performance

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- Watertightness 600Pa
- Resistance to Windload 2400Pa

AA®603TE Tilt Position

AA®603TE Slide Position
AA®605TE Swing Door

Introduction
The Kawneer AA®605TE Swing Door is a high performance thermally efficient door due to the polyamide thermal break that is incorporated into the aluminium profile. With the use of extruded gasket profiles, this system achieves its weathering performance by means of drained and ventilated glazing rebates.

Designed for direct fix to masonry, window and door composites or ribbon windows, the range can suit with the Kawneer curtain walling and framing systems and is suitable for low or high rise buildings.

The AA®605TE Swing Door is available as a single action open-in or open-out swing door and can be single or dual colour.

Product Features
- Low (for easy wheelchair access) or mid/rebated threshold
- Specifically designed anti-finger trap protector
- Choice of locks: multi-point or single with latch, roller or deadbolt
- Adjustable two or three part hinges
- Suites with the AA®601TE Casement, AA®602TE Pivot, AA®603TE Tiltturn, Kawneer’s Curtain Walling and Framing products

With the decisive advantage of...
- Low threshold provides improved accessibility for all
- Finger guard design provides safety in use
- Flexibility
- Suitable for use in medium traffic locations
- Total design flexibility
- Offering total project solutions

Construction
The AA®605TE Swing Door is a three chamber pressure equalised system crimped with mechanical corner cleats. Weathering is achieved by the use of single and dual durometer, EPDM gaskets, all with non-shrinkage cord.

Security *
Kawneer’s AA®605TE Swing Door has been tested to the PAS 23 and PAS 24 Standards for the enhanced security performance of single leaf external doors, proven by stringent laboratory testing, carried out at the Building Research Establishment (BRE). The AA®605TE Door is suitable for both light and medium duty requirements, making it ideal for low to medium frequency use in dwellings and commercial applications.

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

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GT70 Slimline Renovation Window

Introduction
The Kawneer GT70 Slimline Renovation Window is an elegant aluminium fenestration solution designed specifically to replicate the appearance of steel windows. Suitable for installation in new build or refurbishment projects, the GT70 window combines the optimum technical performance expected of today’s aluminium windows, with the fine sightlines characteristic of original steel windows. These slender sightlines are enhanced further by optional bevelled designed feature caps adding a unique sculptured effect to the external surface of the building.

Construction
Framing construction incorporates fill and debridge thermal break with resin. All frames have mechanically jointed and adhesive bonded corners. Installation can be by the direct fix method or by twist in fixing lugs.

Glazing
Inward opening windows are internally glazed and outward opening windows are externally glazed, with a maximum glass thickness of 54mm for fixed lights and vents (inside glazed) and 33mm (outside glazed).

Weather Performance
Air Infiltration Grade C at 600Pa
Watertightness no leakage at 600Pa
Resistance to Windload up to 2000Pa*

*2000 special is dependant upon correct mullion and transom selection to suit span and spacing per project

Product Features
- Fine sightline characteristics of steel windows
- Suitable for composite and ribbon windows
- Option for open out or open inwards
- A range of structural and coupling mullions available
- Special bevelled beads
- Concealed drainage system

With the decisive advantage of...
- Particularly suitable for refurbishment projects
- Replication of steel with additional benefits associated with aluminium such as the high strength to weight ratio
- Offers wide choice of aesthetics
Supporting Your Projects

A full range of guaranteed colours available
Kawneer Permacover™ is a high quality polyester powder paint finish, offering over 130 standard and 31 metallic paint colours and providing outstanding resistance to environmental conditions. Kawneer Permacover™ has 30 year gloss and a 30 year matt and metallic guarantees subject to application and Kawneer acceptance in marine, industrial, swimming pools or other aggressive atmospheres.

Kawneer Permanodic® is a range of subtle co-ordinated colours which have been researched and developed for architectural 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 from our Head Office.

Authorities
ISO 9001:2000
Quality Management System
BS EN 12020
Extruded precision aluminium profiles
BS 3987
Specification for anodic coatings
BS 4496
Specification for powder organic coatings
BS 6375 Part 1
Classification for weathertightness
BS 6375 Part 2
Specification for operation and strength
BS 4873
Specification for aluminium alloy windows
BS 7950:1997
Incorporating Amendment Nos. 1, 2 & 3 - Specification for enhanced security performance
BS 4255 Part 1
Specification for non-cellular gaskets
BS EN ISO 12567-1:2000
NPL hot box test
ASTM C509-94
Specification for cellular gaskets

Project Assistance
Kawneer’s regionally based team of Architectural Advisors 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.