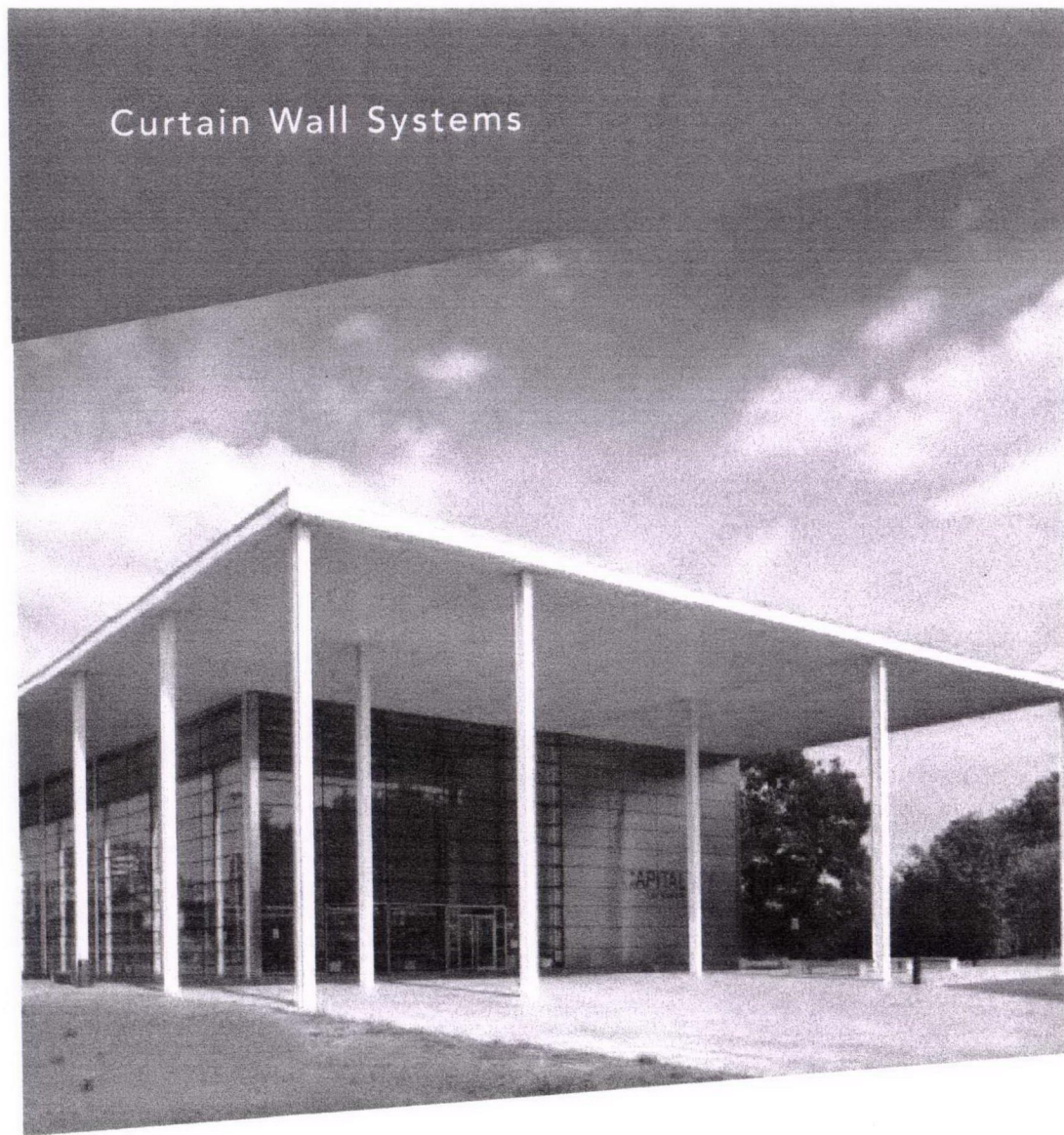


CURTAIN WALL SYSTEM
AND INTEGRATED TILT
TURN + CASEMENT WINDOWS
EXAMPLES.



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Capital City Academy
Foster & Partners

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Introduction

Kawneer, a global systems company

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

Since its beginning approximately 60 years 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 successful teams have a wealth of experience working closely with architects, contractors and clients to develop project solutions that meet their needs. We are committed to meeting your needs and we work with product developers to ensure our products meet the most exacting and demanding technical standards. With a worldwide network of design centres, Kawneer's global design expertise, combined with our commitment to quality and reliability, ensures that we can provide you with the right solution to meet your needs.

Committed to the success of your project

Kawneer products are made from a blend of the highest quality and design with the benefit of many years of project experience. Because we understand the design and technical requirements of the building, we can help you design your building systems. We offer a range of services, including a complete design, engineering and design support service. Our design, engineering and design support service is a key to your success. Our design, engineering and design support service is a key to your success.

Need something special?

Kawneer offers the world's greatest range of talent in architectural glazing systems, and we can deliver 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 nowadays - 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 optimized, and environmental impact is minimized, and our eight-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 with this versatile material for many decades. Aluminium is a completely natural for architectural glazing products, and has many advantages over all other available choices, including inherent resistance to corrosion and very low whole-life costs. Aluminium is also an inherently fire-rated 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 hydroelectric schemes.

Glasgow Harbour
Casper Cremer Architects



Curtain Wall Systems

Introduction

Today's fast paced construction schedules and working practices. The system is available in a variety of styles and is suitable for vertical and sloped applications including faceted walls. To provide complete design flexibility the AA100 is also available as a horizontally lapped system. Structurally Silicone Glazed system and a Fire Resistant system.

The AA100 has a range of mullion, transom and facade options, with Sloped system.

Kawneer AA100 Sloped Curtain Wall System

The AA110 Sloped Curtain Wall System also provides a dry jointed facade solution, and a range of mullion, transom and facade options to provide 55mm sightlines. The system is available in a variety of styles and is suitable for vertical applications and faceted walls.

Kawneer AA120 Sunshades

requirements.

It also makes the FF System an attractive and practical option for many curtain walling projects in the UK and Ireland. Unfixed curtain walling is modular – the individual units or panels are assembled off site in factory controlled conditions and then transported to site and craned onto the building. This dramatically reduces time on site, and thus the building can be enclosed rapidly allowing hand-over to following trades to take place much sooner.

The AA120 Sunshades system has been designed specifically for use with the AA100

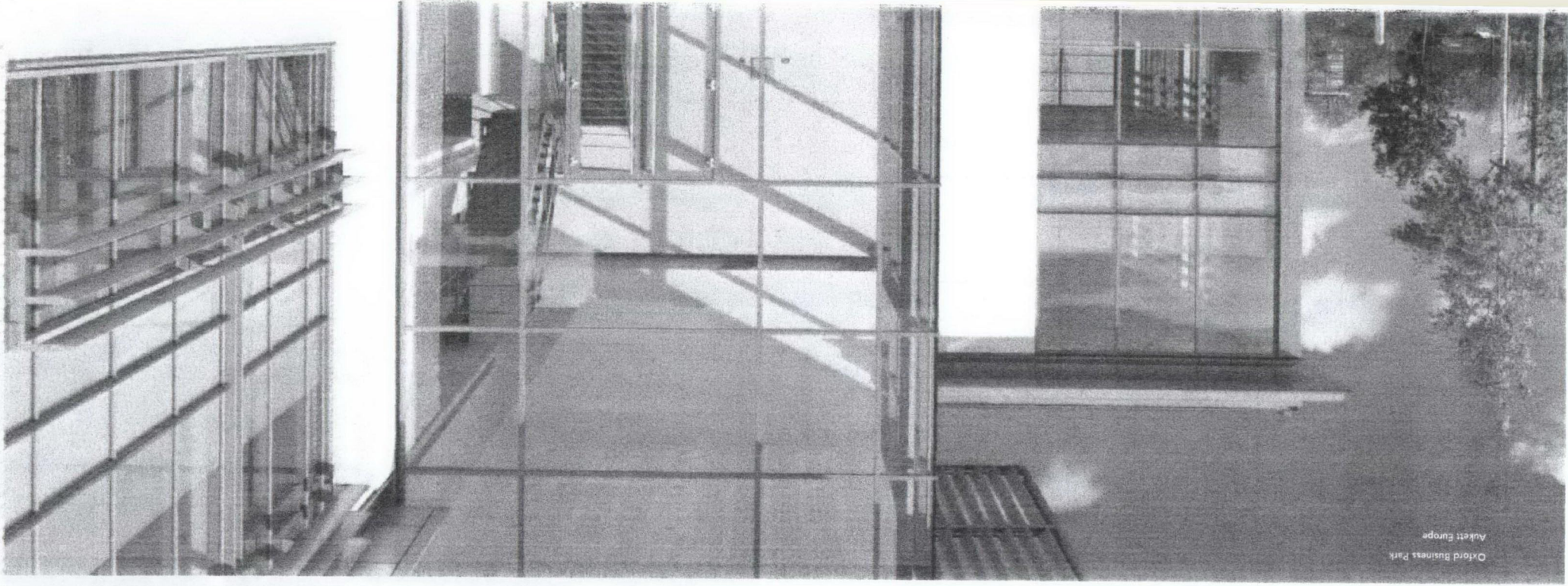
A deeper glazing rebate meets the requirements for better loading and enables the facade to stand up to high levels of building movement.

Kawneer FF Curtain Wall

The Kawneer FF System is a null-on-diameter modular curtain wall system, which has been designed so that when viewed externally, the opening vents and the fixed lights have the same visual appearance. The FF is a modular system with factory glazed panelled frames that are fixed to the curtain wall grid.

Our modular facade solution, AA201 Unfixed Curtain Wall, is a highly innovative concept that has already been proven on a number of projects in the UK and Ireland. Unfixed curtain walling is modular – the individual units or panels are assembled off site in factory controlled conditions and then transported to site and craned onto the building. This dramatically reduces time on site, and thus the building can be enclosed rapidly allowing hand-over to following trades to take place much sooner.

The AA120 Sunshades system has been designed specifically for use with the AA100

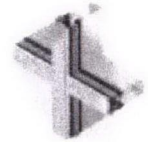


Oxford Business Park
Aukett Europe

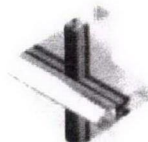
AA®110 65mm Curtain Wall



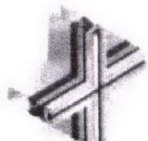
WINDOW
CLADDING



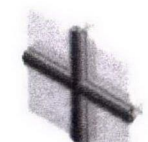
AA110 65mm Wall Section



AA110 65mm



AA110 65mm



AA110 65mm

Introduction

The AA110 curtain wall system was developed in line with the AA100 system for functional differences, a 10% depth of the mullions and transoms. The AA110 65mm system with its double glazing rebate meets the requirements for both fire levels 4 and enables the space to retain up to high levels of building movement. It is also a tried and tested system

originally designed in Europe and is suitable for vertical applications including faceted walls. As with the AA100 system, the AA110 also offers a range of construction methods including zone drainage and Mullion drainage. The AA110 enables architects, assisted by our Architectural Advisers, to identify the optimum curtain walling solutions and create inspirational architectural designs.

Product Features

- Dry jointed system
- Suited to vertical, sloped and faceted applications
- Concealed Zone drainage and Mullion drainage options
- Assessed in accordance with the CWCT Curtain Wall Standard
- Complies with all current thermal regulations
- Range of mullion, transom and facade options with 65mm sightlines
- PFEU capped system
- Fully capped option
- SSU option
- Horizontal cap
- Offers total flexibility - shares components with AA100 curtain wall system
- Suited with AA120 Slipscreens
- Available with a concealed open out vent
- Accommodates glass from 4mm to 42mm

With the decisive advantage of...

- Removes the need for on-site sealing and ensures excellent weathertight performance
- Wide range of applications from the same suite of sections
- Proven weathertight performance in the most stringent conditions
- Provides choice of aesthetics when cladding the building facade

Performance

The system, installed and glazed in accordance with the recommended procedures, has been assessed in accordance with the Centre for Window and Cladding Technology (CWCT) Curtain Wall Standard.



Supporting Your Projects



Authorities

ISO 9001:2000

Quality Management System

BS EN 12020

Exterior aluminium window assemblies

BS 3987

Specification for aluminium window

BS 6496

Specification for window glazing

BS 4255 Part 1

Specification for aluminium window

ASTM C509-94

Specification for aluminium window

BS EN 12152

Curtain wall systems - performance requirements and test methods

BS EN 12153

Curtain wall systems - performance requirements and test methods

BS EN 12154

Curtain wall systems - performance requirements and test methods

BS EN 12155

Curtain wall systems - Laboratory test methods and procedures

Kawneer Permacover™ is a high quality polyester powder paint that, offering over 140 standard and special metallic paint colours and providing outstanding resistance to various external conditions, Kawneer Permacover™ has 15 year colour and a 25 year anti-abrasive guarantees subject to application and Kawneer acceptance of the individual assembling process or other aggressive atmospheres.

Kawneer Permaodot™ is a range of subtle coordinated colours which have been researched and developed for architectural systems. Kawneer Permaodot™ is a range and tested avoiding previous proven accelerated laboratory tests and extensive field trials and significant experience. Subject to compliance with Kawneer's requirements, a 25 year finishes guarantee can be obtained from our Head Office.

BS EN 12179

Curtain Walling - Resistance to windload - test methods

BS EN 13830

Curtain Walling - Product standard

BS EN 13116

Curtain Walling - Resistance to windload - performance requirements

BS 476-22 - Fire tests of building materials

Pr EN 1364-3 - Fire Resistance

Technical Assistance

Kawneer's regionally based team of Architectural Physicists and the Architectural Support Team based at our Head Office in Runcorn are able to provide project advice and support.

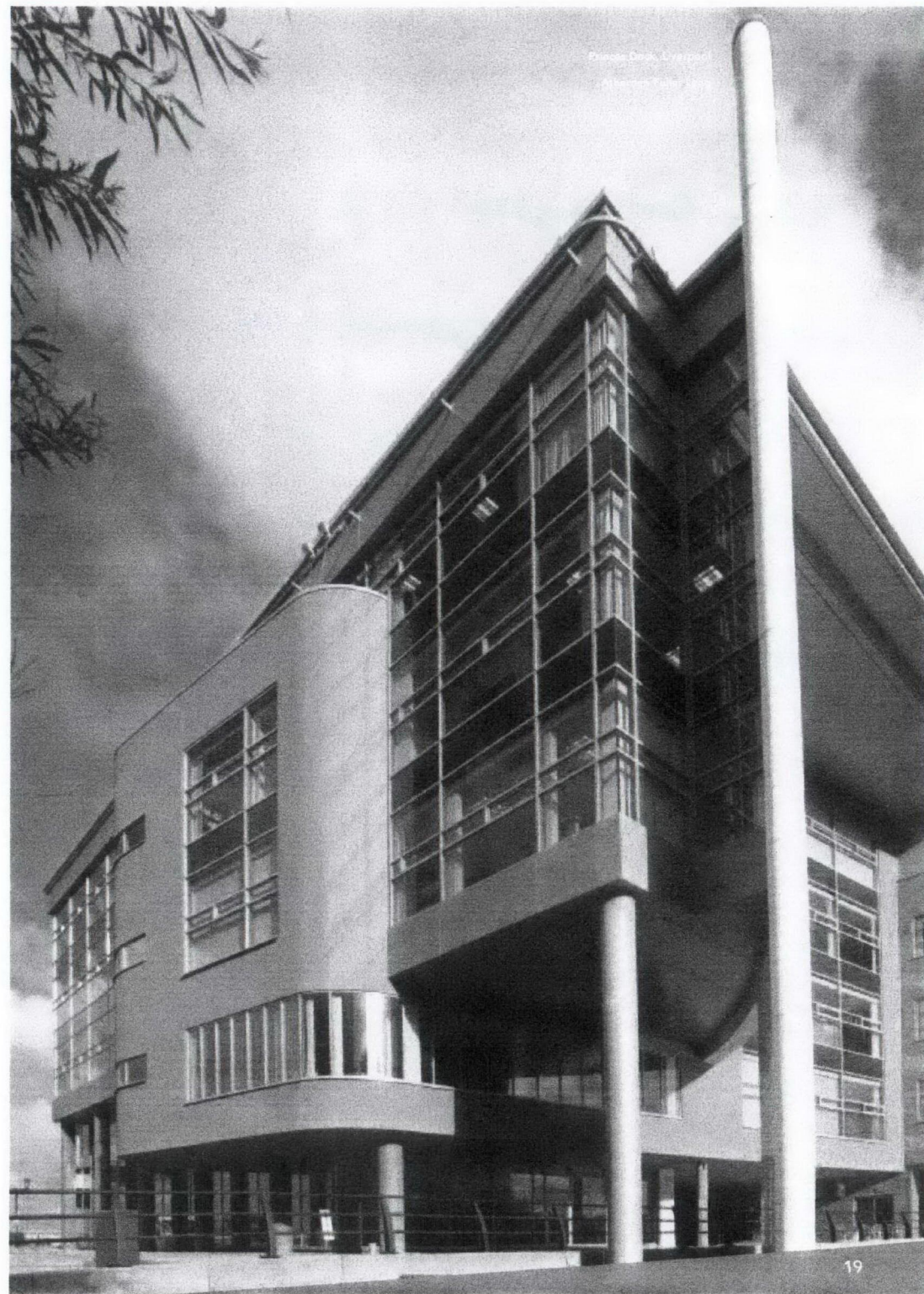
Tel: 01928 502485 / Fax: 01928 502512

Email: kawneerAST@alcoa.com

For more information on Kawneer's extensive range of Curtain Wall, Window and Glass & Floor To Wall solutions, you can also contact them from our Head Office by calling:

Tel: 01928 502612

Kawneer UK is a part of Alcoa Building and Construction Systems, and enjoys the extensive resources of the entire Alcoa organisation, all of the special 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.



AA[®]603TE Tiltturn Window



Introduction

The AA[®]603TE Tiltturn window offers the most advanced design available in the industry. It features a multi-point locking system which allows the window to be used in a wide range of applications. It is also ideal for multi-storey applications as the window can be viewed safely from inside the building with the window in the open mode.

The AA[®]603TE Tiltturn window has been built in a refurbishment process.

Security

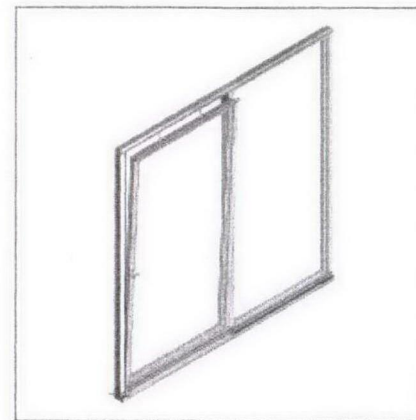
Windows AA[®]603TE Tiltturn window has been tested to the BS 7950:1997 Standard in accordance with document parts 1, 2 & 3. The AA[®]603TE Tiltturn window security performance is approved by the Accredited Laboratory (an independent part of the Building Research Establishment BRE).

Product Features

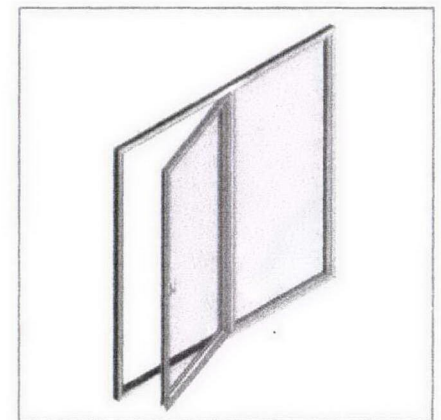
- Top and bottom operation (Tiltturn) with micro-ventilation in closed mode
 - Energy Efficient (U-Value)
 - Top and bottom
 - Suitable with AA[®]603TE Casement, AA[®]602TE Pivot, AA[®]605TE Door, Kawneer Counter Balancing and ISPT Hardware
 - Multi-point locking and optional security upgrade
 - Multi-fabric available
 - Option of concealed hinges
 - Draught free certified ventilable and safely in operation in all modes. The full opening of the tilt turn window offers an escape route in a fire emergency (subject to code)
 - Can help meet the requirements of the Building Code
 - Offering alternative and positive ventilation position
 - Total design flexibility. Offering total product solutions.
 - Security in line with BS 7950:1997 Windows parts 1, 2 & 3
 - Offering locked, storm lock and open modes
 - Aesthetics
- * Please refer to the technical specification for further details and requirements.



The Shoe Factory, Leicester
Metropolis Architecture
Casement Windows
Tiltturn Windows
ISPT Windows
Entrance Doors
Swing Doors
Flaming



AA[®]603TE Tilt Position



AA[®]603TE Turn Position

AA 601TE Casement Window



Introduction

Kawneer AA 601TE Casement Windows is a member of the AA 600TE Series Window & Door System designed to integrate internal traffic flow with compliance with government and British Building Standards Part 2.

The AA 601TE Casement is available as single or double hung windows and can be made in either aluminium or wood with a variety of thermal break options to meet your project requirements.

Security

Kawneer's AA 601TE Casement Windows can be tested to BS 7950:1997 - Amendments 1 & 2.

Product Features

- Multiple locking with three-point action
- Optional handle variation
- Inpaginable, locking and key-coded handles
- Protected top and side rails in built-in applications
- Suites with AA 601TE Pivot, AA 603TE Tilt and AA 605TE Top Kawneer Curtain Walling and DSPT Framing
- Freedom of access handles as an option
- Offset handle position
- Interlocking wedge handles
- Fixed variants with adjustable handles
- Stays with adjustable friction
- Filling options with or without
- Cable-actuated handles and stays

With the decisive advantage of...

- Security in line with BS 7950:1997 amendments 1, 2 & 3.
- Can also meet the requirements of Document F
- Added security
- Total flexibility suits most casement project applications
- Total design flexibility. Offering total project solutions
- Frames provide an emergency escape
- Safety in use
- Provides enhanced weather performance even on large windows
- Compliant with the BIM 55 regulations and BS 2219 of 100mm total 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

* Please refer to our technical manual for security hardware required

Islington Wharf, Manchester
Broadway Malyan Architects
Casement Windows
Entrance Doors
Tilt Slide Doors
Swing Doors
Curtain Wall
Framing

