

sapa:

# Dualframe

A New Era in Aluminium  
Windows & Doors



SAPA BUILDING SYSTEMS LIMITED

# DUALFRAME

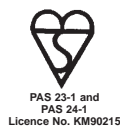
A high performance suite of products designed to meet ever increasing thermal performance requirements both now and in the future.

The Sapa Dualframe range signifies a new era in aluminium fenestration, with products that have been specifically designed to comply with the changes to the Building Regulations which apply to thermal performance, both now and in the future.

Dualframe is an integrated aluminium door and window suite with ultra slim lines and beautiful styling, making it the perfect choice for use in both residential and commercial applications.

Designed using the latest thermal break technology, Dualframe complies to Part L of the Building Regulations using only hard coat, low emissivity glass with standard edge spacers to the double glazed units.

Not only does Dualframe perform well, its elegant good looks are available in a vast choice of finishes and colours. Different colours can even be selected internally and externally for a perfect finish to any project.



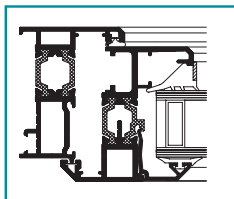
Page

- 3 55mm Casement Window
- 4 55mm Pivot Window
- 5 55mm Tilt Before Turn Window
- 6 Vertical Sliding Window
- 7 Horizontal Sliding Window
- 8 75mm Casement Window
- 9 75mm Reversible Window
- 10 75mm High Performance Entrance Door
- 11 Adaptors & Couplers

# 55mm Casement Window

## Top or side hung and fixed lights with slim sight lines

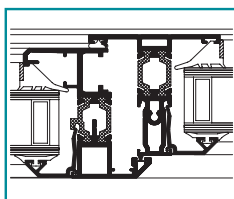
Kitemarked to BS7950 'Specification for enhanced security performance of casement and tilt/turn windows for domestic applications' and BS4873 'Specification for Aluminium Alloy Windows', the 55mm Casement Window offers project specifiers a secure and attractive product for a range of commercial or residential applications.



**Jamb**

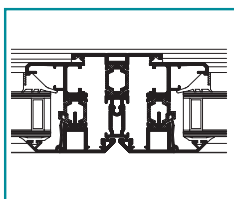
Vents are designed to accept the full depth Eurogroove to ensure compatibility with a wide range of industry standard hardware.

Available with a multipoint locking system as standard and stainless steel projecting friction hinges, other hardware can be specified that allow for remote operation, trickle ventilators, restricted and egress friction stays plus a range of other options.



**Mullion/Vent**

- **Can be internally or externally beaded**
- **Chamfered or 'softline' profiles available to achieve traditional or contemporary appearance**
- **Standard or heavy duty options available**
- **Unique polyamide strip with integral bead retention leg to minimise external projection of the opening light (Patent applied for)**



**Mullion Vent/Vent**



## 55MM CASEMENT WINDOW WEATHER PERFORMANCE:

	Opening Lights	Fixed Lights
Water Tightness	600 Pascals	600 Pascals
Air Permeability	600 Pascals	600 Pascals
Wind Resistance	2400 Pascals*	2400 Pascals*

\* Exposure category varies with width/height of window and mullion/transom used.

# 55mm Pivot Window

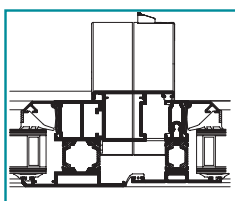
## Horizontal or vertical pivot windows and fixed lights

Offering slim sight lines and dual colour functionality, the pivot window makes cleaning easy from the inside and gives flexible ventilation. Suitable for residential, education, healthcare and commercial applications.

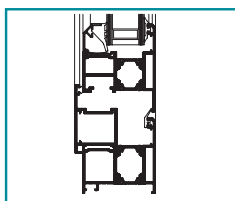
Vents are designed to accept the full depth Eurogroove to ensure compatibility with a wide range of industry standard hardware.

The pivot window system features an optional locking restrictor to provide extra levels of safety where the application demands it.

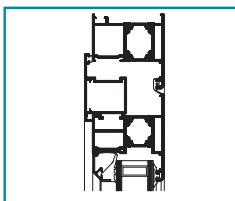
- **Internally beaded**
- **Optional trickle vent**
- **Curtain walling outerframe available**
- **Will couple to other Dualframe 75mm and 55mm systems as well as Elegance 52 curtain walling.**



**Mullion/Vent**



**Cill/Vent**



**Head/Vent**



### 55MM PIVOT WINDOW WEATHER PERFORMANCE:

	<b>Opening Lights</b>	<b>Fixed Lights</b>
Water Tightness	600 Pascals	600 Pascals
Air Permeability	600 Pascals	600 Pascals
Wind Resistance	2400 Pascals*	2400 Pascals*

\* Exposure category varies with width/height of window and mullion/transom used.

# 55mm Tilt Before Turn Window

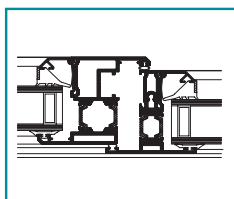
## Tilt before turn windows with slim sight lines - tilt for ventilation and turn for cleaning

Particularly suitable for high rise applications, the tilt before turn window makes cleaning easy from the inside and gives secure ventilation.

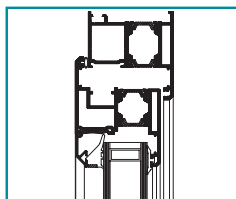
Kitemarked to BS7950 'Specification for enhanced security performance of casement and tilt/turn windows for domestic applications' and BS4873 'Specification for Aluminium Alloy Windows'.

Vents are designed to accept the full depth Eurogroove to ensure compatibility with a wide range of industry standard hardware.

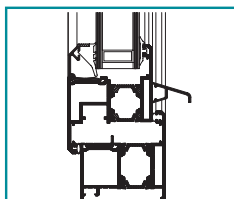
- **Internally beaded**
- **Design variants include: chamfered profiles, curtain walling outerframe**
- **Will couple to other Dualframe 75mm and 55mm systems as well as Elegance 52 curtain walling.**



**Mullion/Vent**



**Head/Vent**



**Cill/Vent**



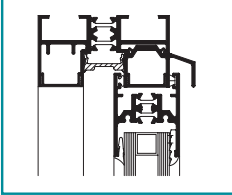
## 55MM TILT BEFORE TURN WINDOW WEATHER PERFORMANCE:

	<b>Opening Lights</b>	<b>Fixed Lights</b>
Water Tightness	600 Pascals	600 Pascals
Air Permeability	600 Pascals	600 Pascals
Wind Resistance	2400 Pascals*	2400 Pascals*

\* Exposure category varies with width/height of window and mullion/transom used.

# Vertical Sliding Window

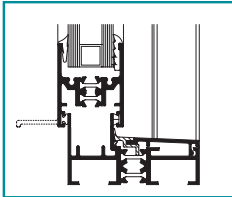
## Excellent weather performance, security and safety measures



**Head**

The Dualframe Vertical Sliding Window can be constructed to form 2-pane windows with an overall maximum height of 2700mm.

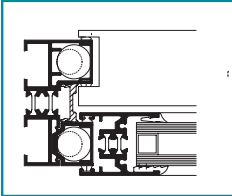
Offering slim sightlines and dual colour the window can be suited with the rest of the Dualframe system as well as other systems from the extensive Sapa stable including curtain walling.



**Cill**

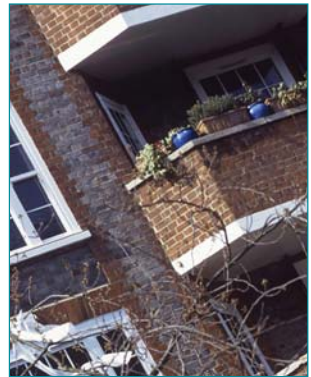
Sashes combine ease of operation with optional anti-ligature design hardware making this system the perfect solution for applications such as hospitals.

Where safety is of critical importance, an optional slider restrictor, offering releasable, locking or permanent options, is available.



**Jamb**

- **Wrap-around glazing**
- **Anti-ligature finger pull option - ideal for healthcare and secure unit applications.**
- **Optional trickle vent**
- **Curtain walling outerframe available**
- **Will couple to other Dualframe 75mm and 55mm systems, the Monoframe system, as well as Elegance 52 curtain walling.**



## VERTICAL SLIDING WINDOW WEATHER PERFORMANCE:

Water Tightness	600 Pascals
Air Permeability	600 Pascals
Wind Resistance	2000 Pascals*

\* Exposure category varies with width/height of window and interlock cover used.

# Horizontal Sliding Window

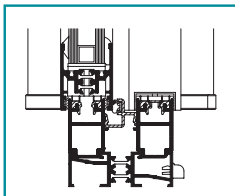
## Horizontal sliding window system combines high security with ease of operation

The Dualframe Horizontal Sliding Window system offers 2 and 3 pane options with an overall maximum width of 2400mm for 2 pane windows and 3100mm for three pane window configurations.

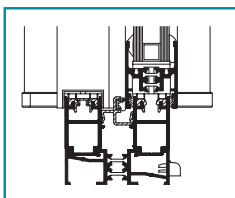
Offering the same easy functionality and dual colour capability as the rest of the Dualframe system the horizontal sliding window system can be used in conjunction with the rest of the Dualframe system for complete design freedom.

The horizontal slider has been developed to resist manual attack to a level equivalent to the test methodologies given in BS7950. The confidence of the security offered combined with its ease of operation, makes the horizontal sliding window system the ideal solution to withstand the rigours of commercial environments, in particular schools.

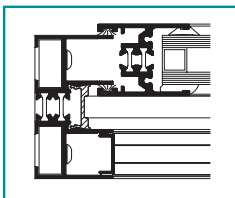
- **Wrap-around glazing**
- **Optional permanent restrictor**
- **Will couple to other Dualframe 75mm and 55mm systems as well as Elegance 52 curtain walling.**



**Cill**



**Cill**



**Jamb**



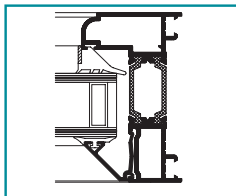
## HORIZONTAL SLIDING WINDOW WEATHER PERFORMANCE:

Water Tightness	200 Pascals
Air Permeability	300 Pascals
Wind Resistance	2000 Pascals*

\* Exposure category varies with width/height of window and interlock used.

# 75mm Casement Window

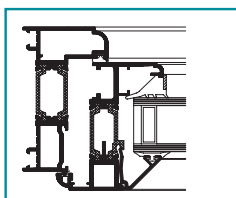
**Top & side hung windows and fixed lights.  
Suitable for direct fixing to structure**



**Fixed Light Jamb**

Dualframe 75mm Casement is suitable for installation in new build or refurbishment projects, particularly residential, educational and light commercial applications.

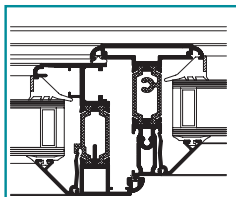
Standard or 'softline' transoms, mullions and outerframes are available to achieve a traditional or contemporary appearance.



**Jamb/Vent**

Vents are designed to accept the full depth Eurogroove to ensure compatibility with a wide range of industry standard hardware.

Kitemarked to BS7950 'Specification for enhanced security performance of casement and tilt/turn windows for domestic applications' and BS4873 'Specification for Aluminium Alloy Windows'.



**Mullion/Vent**

- **Can be internally or externally beaded**
- **Chamfered or 'softline' profiles available to achieve traditional or contemporary appearance**
- **Unique polyamide strip with integral bead retention leg to minimise external projection of the opening light (Patent applied for)**



## 75MM CASEMENT WINDOW WEATHER PERFORMANCE:

	<b>Opening Lights</b>	<b>Fixed Lights</b>
Water Tightness	600 Pascals	600 Pascals
Air Permeability	600 Pascals	600 Pascals
Wind Resistance	2400 Pascals*	2400 Pascals*

\* Exposure category varies with width/height of window and mullion/transom used.



# 75mm Reversible Window

**Direct fix top-hung window that fully reverses for ease of cleaning. Can be combined with fixed lights and mullions.**

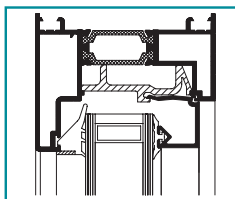
The Dualframe Reversible Window System has a wide range of applications where specifiers wish to incorporate windows that can be safely and completely reversed for cleaning.

Reversible sashes incorporate hardware which ensures balanced operation in use. Safety catches prevent inadvertent reversal.

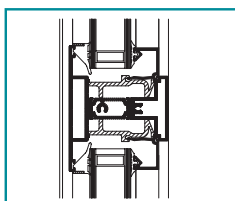
The reversing action does not interfere with items around the window, such as curtains, objects placed on window boards or reveals.

Vents are hung on top overswing hinges with integral restrictors which engage at initial opening stops and fully reversed position for safe cleaning.

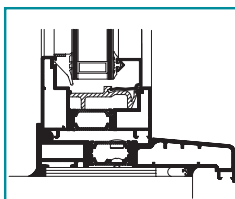
- **Internally beaded**
- **Integral restrictors provide for safe operation**
- **Will couple to other Dualframe 75mm and 55mm systems and Dualframe roof**



**Fixed Head**



**Fixed Light Transom**



**Fixed Light Cill**



## REVERSIBLE WINDOW WEATHER PERFORMANCE:

	<b>Opening Lights</b>	<b>Fixed Lights</b>
Water Tightness	600 Pascals	600 Pascals
Air Permeability	600 Pascals	600 Pascals
Wind Resistance	2400 Pascals*	2000 Pascals*

\* Exposure category varies with width/height of window and mullion/transom used.

# 75mm High Performance Entrance Door

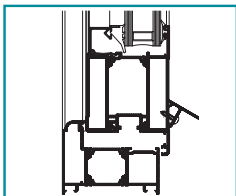
**A suite of profiles which can be constructed to form single or double, open in or open out doors.**

Suitable for both the domestic and light commercial markets, the Dualframe door can be used to achieve both traditional and contemporary styling.

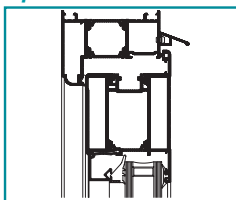
Tested and awarded Kitemarks for PAS23-1:1999 (General Performance Requirements for Door Assemblies) & PAS24-1:1999 (Enhanced Security Performance Requirements for Door Assemblies) for the open in, open out and the low threshold option.

Unique polyamide strip with integral bead retention leg to minimise projection of door leaf profile (Patent applied for). Stiles are designed to accept the full length Eurogroove to ensure compatibility with a wide range of hardware.

- **Options include: internal or external glazing; standard or 'softline' frames; standard, heavy duty or cathedral hinges**
- **Weather rated low threshold cill option**
- **Unique polyamide strip with full depth Eurogroove**
- **Will couple to Dualframe 75mm and 55mm systems, Dualframe roof and the Moniframe system as well as Elegance 52 curtain walling.**



**Open out/Glaze-in Cill**



**Open out/Glaze-in Head**



## 75MM ENTRANCE DOOR WEATHER PERFORMANCE\*:

	Single Open in	Single Open out	Double Open in	Double Open out
Water Tightness	300pa	600pa	200pa	600pa
Air Permeability	300pa	600pa	300pa	600pa
Wind Resistance	1200pa*	2400pa*	2400pa*	2400pa*
<i>Low threshold option</i>	Single Open in	Single Open out	Double Open in	Double Open out
Water Tightness	150pa	300pa	200pa	300pa
Air Permeability	300pa	600pa	200pa	600pa
Wind Resistance	2400pa*	2400pa*	1200pa*	1200pa*

\* Exposure category varies with width/height of door and mullion/transom used as they are the only unsupported members.

# Adaptors & Couplers

Excellent system compatibility and flexibility with a wide range of Dualframe adaptors & couplers

## Adaptors & Couplers

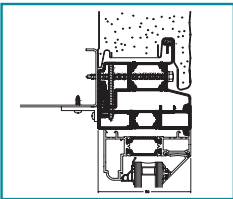
Complex composite and bay units can be constructed using the wide variety of couplers and adaptors available with the Dualframe system:

- **Baypoles**
- **90° Coupler**
- **Expansion Coupler**
- **Cladding Adaptor**

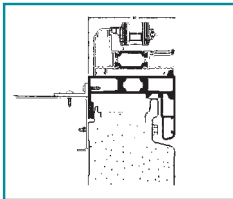
## Kingspan Cladding Adaptor

This suite of adaptor profiles can be constructed to allow the integration of face drained Dualframe 55mm and 75mm windows into horizontally laid Kingspan architectural Optimo™ wall panel range.

Dualframe can be integrated into both full and cut panels of varying thicknesses: Dualframe 55mm can be inserted into panels of 60mm, 70mm and 80mm thicknesses, whilst Dualframe 75mm can be inserted into 80mm thick panels.



70mm Panel Head



70mm Panel Cill



## CLADDING ADAPTOR WEATHER PERFORMANCE\*:

Water Tightness	300 Pascals
Air Permeability	600 Pascals
Wind Resistance	2400 Pascals**

\* Kingspan panels combined with Dualframe windows

\*\* Exposure category varies with width/height of window and mullion/transom /outerframe jamb used.

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Glass and Glazing Federation



INVESTOR IN PEOPLE

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