

# Casement Window – Technical Guide

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## 1 Introduction

We manufacture all of our windows & doors in-house. We are constantly improving our procedures & processes to ensure the highest quality finish. We have made significant investment to bring large portions of the production process in-house, meaning that when you engage our services everything from the measurements, to the machining, joining, painting, manufacture of glazing and installation will all be done by a member of staff who is employed by our company.

### 1.1 Our Casement Windows

We have spent years honing the design and quality of our windows & doors to bring us to the point now where, we believe, we can offer our customers the highest quality product combining aesthetics, traditional styles, security, insulation, longevity and more.

The specifications set out in this document have been refined over the years, with decades of experience going into the final designs.

One of the most important considerations in these designs is the longevity of the products. We understand that replacing your windows is a costly endeavour and our customers would not want to be replacing the same window every 10 years.

Wandsworth Sash Windows is a trading name of Sanford Group Limited  
 Company Reg. No.: 10550497 VAT Reg. No.: 263 2750 10  
 Directors: N Smith M Smith T Smith

We also take traditional designs & styles into account when manufacturing windows & doors, trying to ensure replacement windows are as sympathetic to traditional styles as possible.

Some parts of your new windows may not be the same as your original. This is because we need to combine all of these considerations to ensure we provide the highest quality window, which is exactly what we do.

## 1.2 Types of Casement Window

Casement windows can generally be split into two types, which are the different styles when viewed from outside. These are:

- ❖ Flush Casement Window – This is a more traditional style of casement window. A flush casement window does exactly as its name suggests – with the opening section (or ‘sash’) sitting flush with the window frame on the outside.
- ❖ Stormproof Casement Window - A storm-proof casement window (also known as lipped casements) however, has an opening ‘sash’ that sits proud of the outside face of the window frame, with a sealed lip on all four sides. Why has it been given the name storm-proof? Simply because the sealed lip adds extra protection against the elements, particularly wetter conditions.

Most of our casement windows are manufactured to standard section dimensions and details. We also have a variety of options within these standard details.

If specialist, unique or completely bespoke details or sections are required, then this is no issue for us. If you require something completely bespoke, you should advise a member of our team about this and they will put you in touch with one of our CAD designers who will work with you to provide a quotation for your bespoke details.

Unless otherwise specified on your quotation or Order Confirmation, your order will be produced to our standard sectional and technical details set out in this document.

## 2 Specification

### 2.1 Paint Finish

We apply the following coats to all joinery<sup>1</sup>:

- Two coats of primer base coats
- One coat of top coat

We have found that the best paint system available is Teknos, giving the best possible coating & protection of the timber.

Paint Colour	Finish	Specification
Primer	N/A	Teknos Antique White Anti Stain Aqua 2901 Isolating Primer
White	Gloss	Teknos Aquatop 2600 Clean White Gloss Opaque Top Coat

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<sup>1</sup> Unless otherwise specified on a Quotation or Order Confirmation.

White	Satin	Teknos Aquatop 2600 Clean White Semi Matt Opaque Top Coat
Colour Match	Gloss	Teknos Aquatop 2600 Colour Match Gloss Opaque Top Coat
Colour Match	Satin	Teknos Aquatop 2600 Colour Match Semi Matt Opaque Top Coat

White gloss and white satin paint with a single finish on each item are included as standard.

Dual finish of white gloss & white satin paint, and colour matches are an optional extra.

Any custom paint finish specified, such as Farrow & Ball or Dulux, will be colour matched by Teknos<sup>1</sup>.

## 2.2 Draught Proofing

As casement windows are designed to open in and out, the best form of draught sealing is a compression seal. Compression draught seals are manufactured by Deventer.

The position these are fitted in are as follows:

Service Type	Position
Flush casement window	Rebated into the frame surrounding each opening or non-opening casement sash.
Stormproof casement window	Rebated into the frame surrounding each opening or non-opening casement sash.

## 2.3 Glazing

The standard specification of the glazing in our sash windows is specified below.

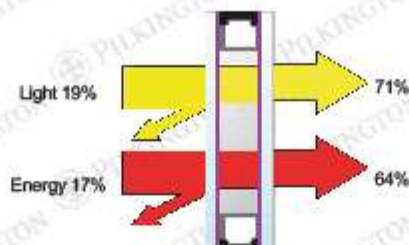
	Complete Replacement
Internal Pane	4mm Pilkington KA
Spacer Size	16mm
Spacer Type	Super Spacer
Spacer Colour <sup>2</sup>	White
Gas <sup>3</sup>	Argon
External Pane	4mm Float
U Value <sup>4</sup>	1.2
Glazing Bars	Single pane with applied bars

The specifications in more detail with calculations from the glass manufacturer follows on the next pages.

<sup>2</sup> Alternative spacer colours available upon request.

<sup>3</sup> Krypton gas available at extra charge.

<sup>4</sup> Centre pane U Value of the unit.



#### DESCRIPTION

Position	Product	Process	Thickness (nominal) mm	Weight kg/m <sup>2</sup>
<b>Pilkington Insulight™ Therm</b>				
Glass 1	Pilkington K Glass™ A	Annealed	4.0	
Cavity 1	Argon (90%)		16.0	
Glass 2	Pilkington K Glass™	Annealed	4.0	
Product Code	4KA-16Ar-K4		24.0	20.00

#### PERFORMANCE

Light			Energy		
Transmittance	LT	71%	Direct Transmittance	ET	56%
	UV %	33%	Reflectance	ER	17%
Reflectance Out	LR out	19%	Absorptance	EA	26%
Reflectance In	LR in	19%	Total Transmittance	g	64%
<b>Performance Code</b>			Shading Coefficient Total		0.74
U <sub>g</sub> -value/Light/Energy		1.2 / 71 / 64	Shading Coefficient Shortwave		0.65
Ra		98	Sound Reduction	R <sub>w</sub> (C;C <sub>tr</sub> ) dB	31 (-2; -5)
The values of some of characteristics are displayed as NPD. This stands for No Performance Determined.			Thermal Transmittance	W/m <sup>2</sup> K	1.2

Pilkington Spectrum allows you to combine a wide range of products available from Pilkington and determine their key properties such as light transmittance, g value and U value. The program includes restrictions that prevent some combinations being selected that may be considered unwise or impractical. Even with these restrictions, it is still possible to create product combinations that may not be available from your supplier. Please check with your supplier that your chosen product combination is possible, available in the sizes required and in a timescale appropriate to your project. Furthermore, it is essential that you check that your product combination is appropriate for satisfying local, regional, national and other project-specific requirements.

Calculations are made according to EN standards 410 and 673/12898

Pilkington Spectrum Version UK:7.3.1

29/09/2021

### 2.3.1 Noise Reduction/Acoustic Performance

The acoustic performance of our standard double glazed units are shown on the specifications in the previous pages.

For more information on acoustic performance, please consult our Glass Guide.

## 2.4 Ironmongery

There is a wide array of ironmongery items and finishes available. Our ironmongery catalogue contains the ironmongery items that we stock as standard, but if you see anything you like online that isn't in the catalogue, just let us know and we can discuss this with you.

The ironmongery for your order will be specified on your quote and Order Confirmation. Ensure you double check that this is exactly what you are hoping for.

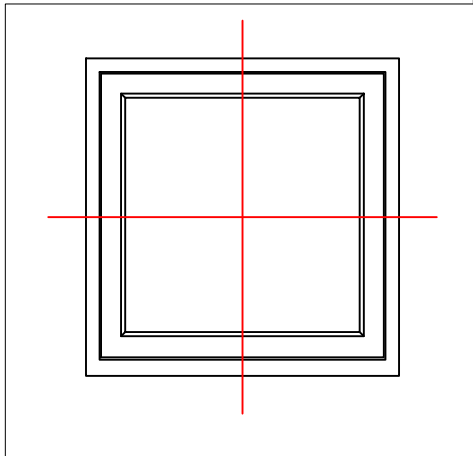
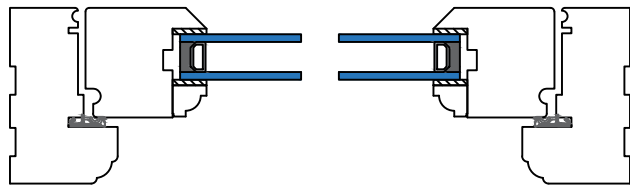
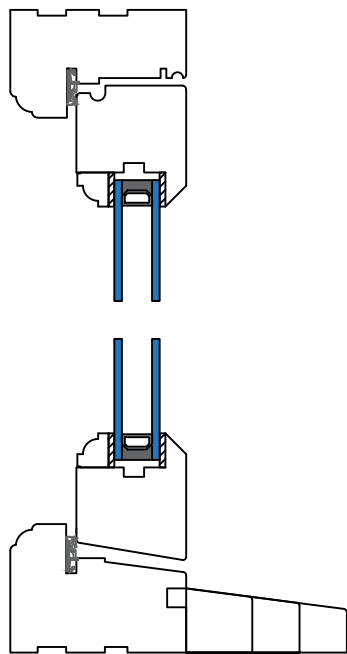
## 3 Section Details

The following pages show standard specification and dimensional details. If you have any questions about this, please ask us and we will be happy to help.

These section details are split into two sections:

- ❖ Flush Casement Windows
- ❖ Stormproof Casement Windows

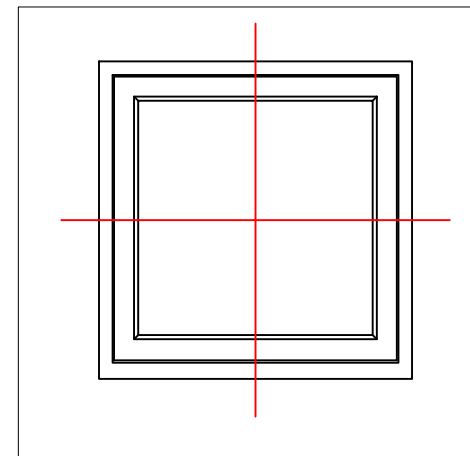
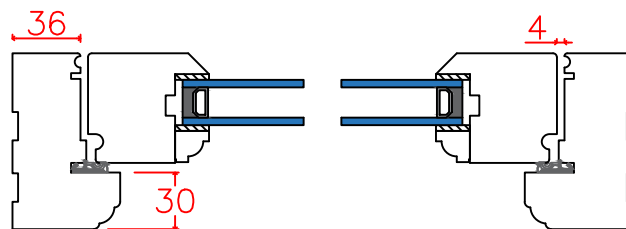
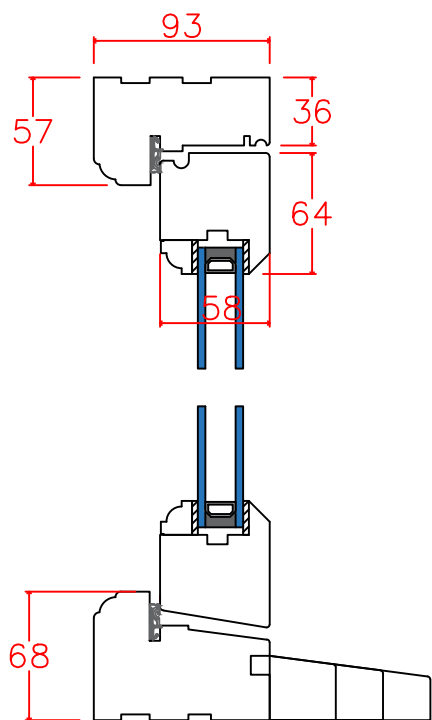
# 3.1.1 Section Drawing Overview – Flush Casement



Scale 1:4 @ A4		
Drawn By Nathan Smith	Date Drawn 17.09.2021	
		
Unit 2, Kangley Bridge Road, Kangley Business Centre, Lower Sydenham, London, SE265 AQ T: 020 3576 7500 E: sales@wandsworthsashwindows.com		
Drawing Status <b>B-STATUS</b>		
Job No Flush Casement	Drawing No 3.1.1	Revision 01

This drawing is prepared to show the standard section profiles and dimensions of products manufactured and supplied by Wandsworth Sash Windows. If dimensions are critical for other trades, please contact us before working from these drawings.

# 3.1.2 Section Drawing Detailed – Flush Casement



Scale  
1:4 @ A4

Drawn By  
Nathan Smith

Date Drawn  
17.09.2021



Unit 2, Kangley Bridge Road,  
Kangley Business Centre, Lower Sydenham,  
London, SE265 AQ  
T: 020 3576 7500  
E: sales@wandsworthsashwindows.com

Drawing Status

**B-STATUS**

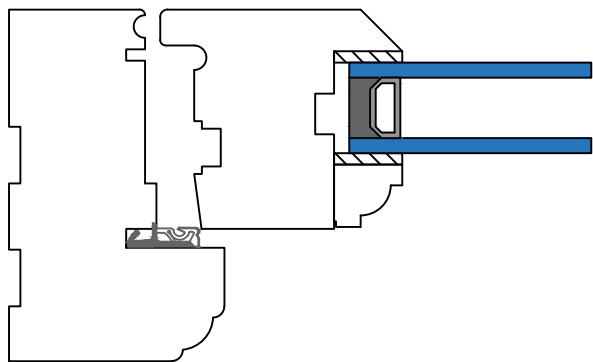
Job No  
Flush Casement

Drawing No  
3.1.2

Revision  
01

This drawing is prepared to show the standard section profiles and dimensions of products manufactured and supplied by Wandsworth Sash Windows. If dimensions are critical for other trades, please contact us before working from these drawings.

### 3.1.3 Friction Hinge Stile – Flush Casement



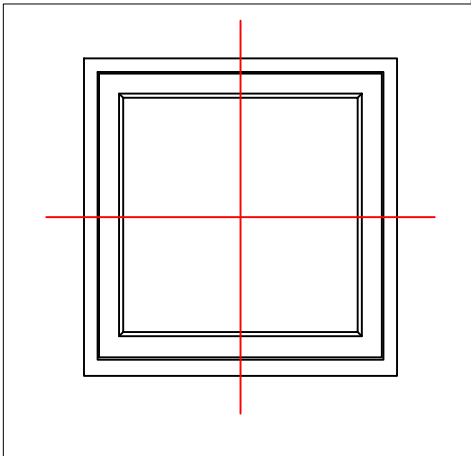
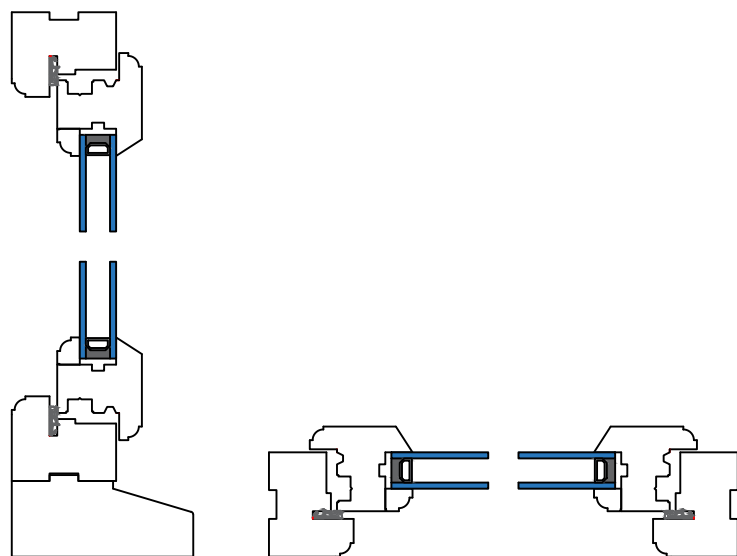
Where flush casements are fitted with friction hinges, this profile shows the section through the stile/rail where the friction hinges will be fitted.

Scale 1:4 @ A4		
Drawn By Nathan Smith		Date Drawn 17.09.2021
<div><div><div>WSW</div><div>Wandsworth Sash Windows</div></div></div>		
Unit 2, Kangley Bridge Road, Kangley Business Centre, Lower Sydenham, London, SE265 AQ T: 020 3576 7500 E: sales@wandsworthsashwindows.com		
Drawing Status B-STATUS		
Job No Flush Casement	Drawing No 3.1.3	Revision 01

This drawing is prepared to show the standard section profiles and dimensions of products manufactured and supplied by Wandsworth Sash Windows. If dimensions are critical for other trades, please contact us before working from these drawings.



# 3.2.1 Stormproof Casement Window – Section Drawing Overview



Scale  
1:4 @ A4

Drawn By Nathan Smith	Date Drawn 17.09.2021
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**Wandsworth  
Sash Windows**

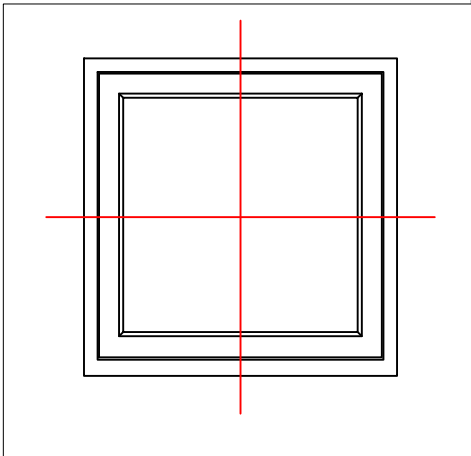
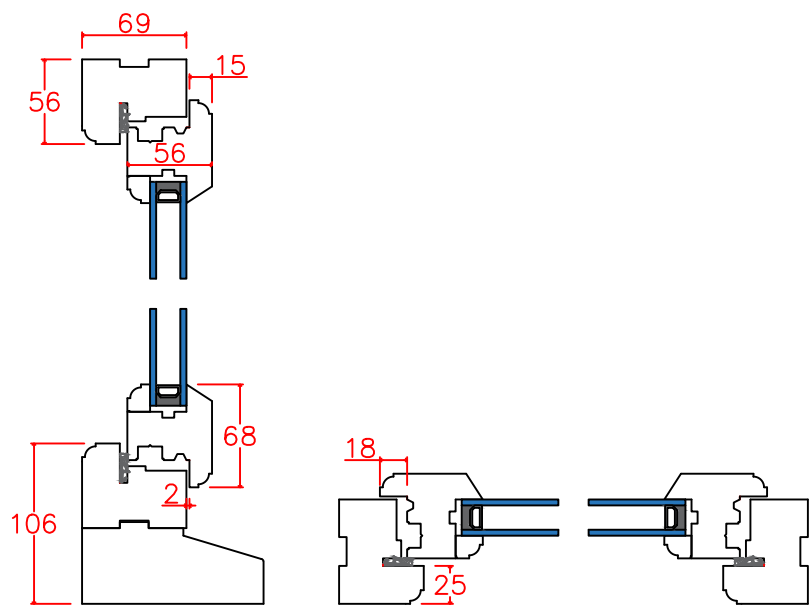
Unit 2, Kangley Bridge Road,  
Kangley Business Centre, Lower Sydenham,  
London, SE26 5AQ  
T: 020 3576 7500  
E: sales@wandsworthsashwindows.com

This drawing is prepared to show the standard section profiles and dimensions of products manufactured and supplied by Wandsworth Sash Windows. If dimensions are critical for other trades, please contact us before working from these drawings.

Drawing Status  
**B-STATUS**

Job No St. Casement	Drawing No 3.2.1	Revision 01
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# 3.2.1 Stormproof Casement Window – Section Drawing Detailed



Scale 1:4 @ A4		
Drawn By Nathan Smith	Date Drawn 17.09.2021	
		
Unit 2, Kangley Bridge Road, Kangley Business Centre, Lower Sydenham, London, SE265 AQ T: 020 3576 7500 E: sales@wandsworthsashwindows.com		
Drawing Status <b>B-STATUS</b>		
Job No St. Casement	Drawing No 3.2.1	Revision 01

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