



Technical information

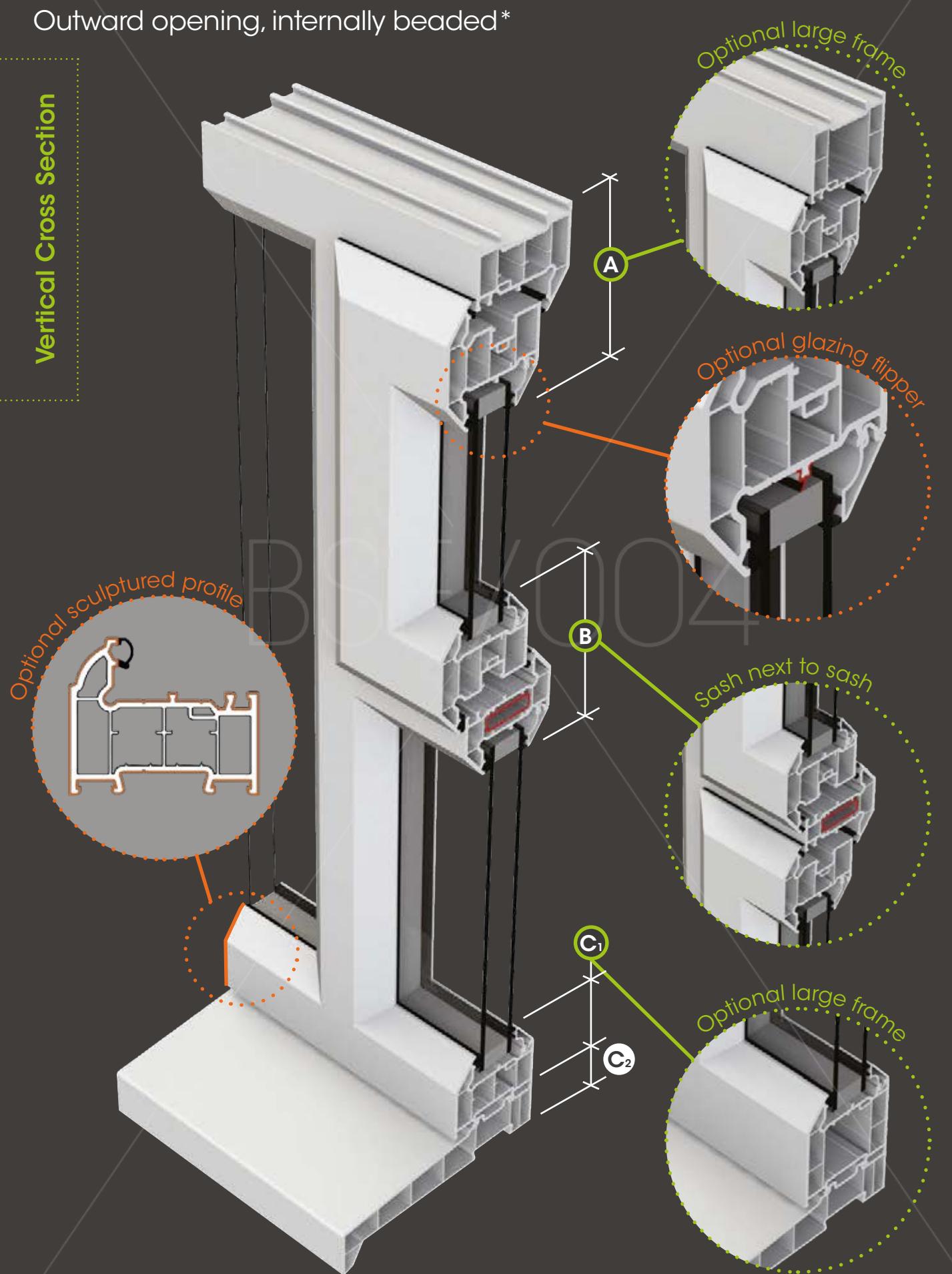
For Liniar casement windows



Casement window

Outward opening, internally beaded*

Vertical Cross Section



* externally beaded options are also available and feature the same sightlines

Technical information

Casement window

- Sculptured and chamfered suites
- 28mm double and 36mm triple glazing
- 4 chambered multi wall profiles
- U-values from 1.2 (DGU) and 0.9 (TGU)
- Patented co-ex gasket

Accreditations



Colour Options



Additional colours are available to order as specials.
The colours shown in this brochure give an indication only.



Product	Dim. A
Small frame & sash L#W011 & L#W031	104mm
Large frame & sash L#W016 & L#W031	124mm

Product	Dim. B
Transom & sash L#W022 & L#W031	114mm
Int. transom & sash L#W027 & L#W031	134mm
Transom & 2 x sash L#W021 & 2 x L#W031	161mm
Int. transom & 2 x sash L#W026 & 2 x L#W031	181mm

Product	Dim. C ₁
Small frame L#W011	57mm
Large frame L#W016	77mm

Product	Dim. C ₂
85, 150, 165, 180 cills LSL085, LSL150, LCL165, LSL180	30mm

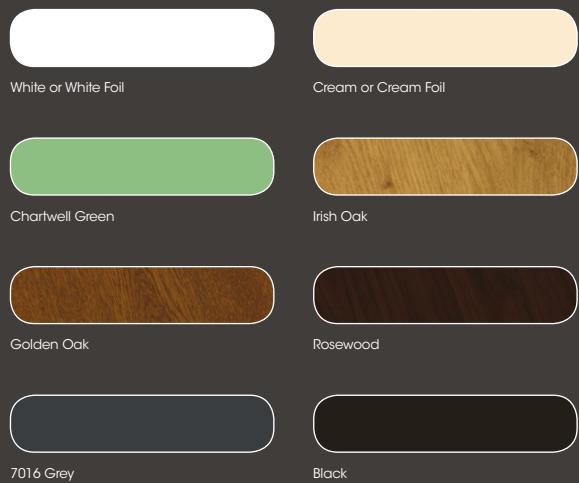
Casement Window

- Sculptured and chamfered suites
- 28mm double and 36mm/40mm triple glazing
- 4 chambered multi-wall profiles
- U-values from 1.2 (DGU) and 0.9 (TGU)
- Patented co-ex gasket

Accreditations



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Replace notation with (S) for sculptured suite and (C) for chamfered suite.

Patented bubble gasket

Historically, PVCu window systems were fitted with a range of EPDM (rubber) gaskets at the fabrication stage, similar to the method still used on timber and aluminium windows. The resulting permeability of the assembled frame was dependent upon the quality of each seal joint, with many suffering from draughts and wind noise.

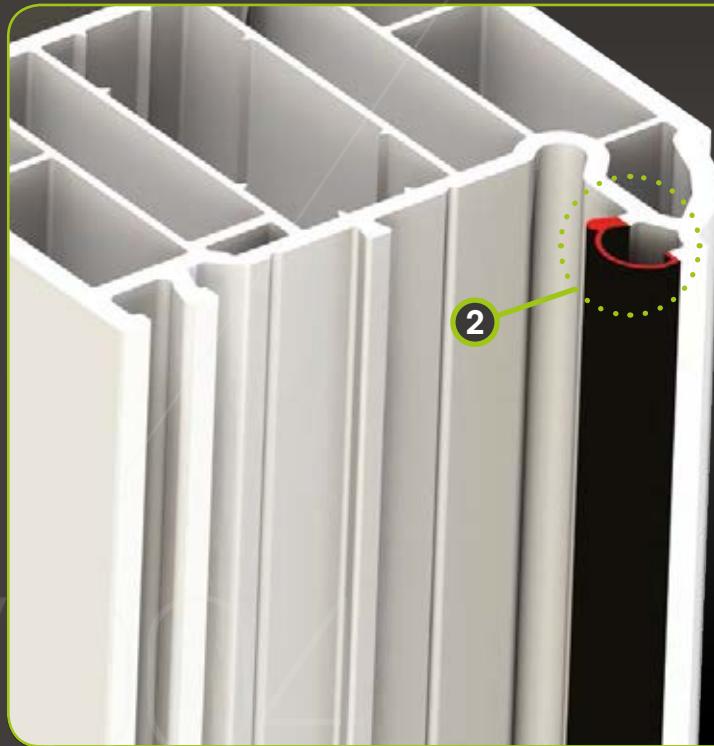
The PVCu extrusion process lends itself to the well-established technology of co-extrusion - adhering the gasket onto the frame using a separate extrusion machine during manufacture. This evolutionary step eliminates the time-consuming gasket insertion process and creates a more reliable corner seal at each joint.

Many PVCu window systems make use of co-extruded gaskets, most adapting existing profiles to the process.

Starting from scratch, the Liniar team had no constraints, and spent a significant amount of time developing its patented bubble gasket (2) to outperform all others in speed of fabrication and in permeability - achieving a zero air leakage during independent tests at BSI.

The design of both the gasket and the area behind the gasket is crucial, not only to the permeability of the finished window, but during the welding process where hard lumps can form in the corners of each joint, cracking sealed units.

Liniar's dual-action gasket performs equally well as a soft dynamic seal on opening sashes as it does as a firm glazing gasket for sealed units, its tolerance friendly design always ensuring a whistle-free seal inside and out - and no gaps, not even in the corners.



Enhanced performance

As the quantity and spacing of internal webs reduce thermal transmittance through Liniar frames, the flow is directed towards the path of least resistance. To address this, the Liniar design team introduced a brace of simple but effective ancillary products.

The first is the innovative glazing flipper (3) - this can be clipped onto the short central up-stand within the glazing area, creating a thermal barrier and additional gasket, and sealing the perimeter of any glazed unit - keeping the heat in and moisture out.

The second is the patented thermal dam (4) - introduced to address heat loss at the outer edge of the frame, Liniar's clip-in thermal dam creates a multi-chambered barrier with optimized leg spacing and is manufactured from recycled material produced during the extrusion 'start-up' procedure.

The result is a supremely energy efficient double glazed product, one capable of achieving a cost-effective A+ Window Energy Rating, or 1.2 W/m²K U-Value and if required a triple glazed 0.8 W/m²K U-Value window.

