

**NEW!**  
**charisma classic**  
Tap into new business opportunities



# charisma

*Vertical sliding sash system*

The ultimate combination  
of classic design and 21st  
century engineering



*All together better*

# Discover a design classic with a modern twist

With **charisma** vertical sliding sash windows – from Eurocell



White **charisma** vertical sliding sash windows fitted onto new build property with single Georgian bar

## The Eurocell Charisma vertical sliding sash window system

The Eurocell **charisma** vertical sliding sash window system enables you to offer your customers classically styled traditional windows with all the low-maintenance and thermal efficiency benefits of modern PVC-U.

As one of the most highly engineered vertical sliding windows on the market, it captures the stylish looks of the Georgian era, with none of the associated problems of draughts, rattling sashes and high maintenance.

Plus, we now offer **charisma classic** – an extension to the **charisma** range designed to meet the exacting requirements of conservation areas and historic buildings – allowing you to tap into new business opportunities, **charisma classic** boasts brand new aesthetics, including a deep bottom rail and unique-design run through horns.

## Faultless fabrication – every time

Eurocell has updated this market-leading product to improve its aesthetics and make the entire system even quicker and simpler to fabricate and install. Precision machined components mean you can now supply customers with a technically advanced, high-performance window that's fabricated to the same high quality standard every time.

## High standards – guaranteed!

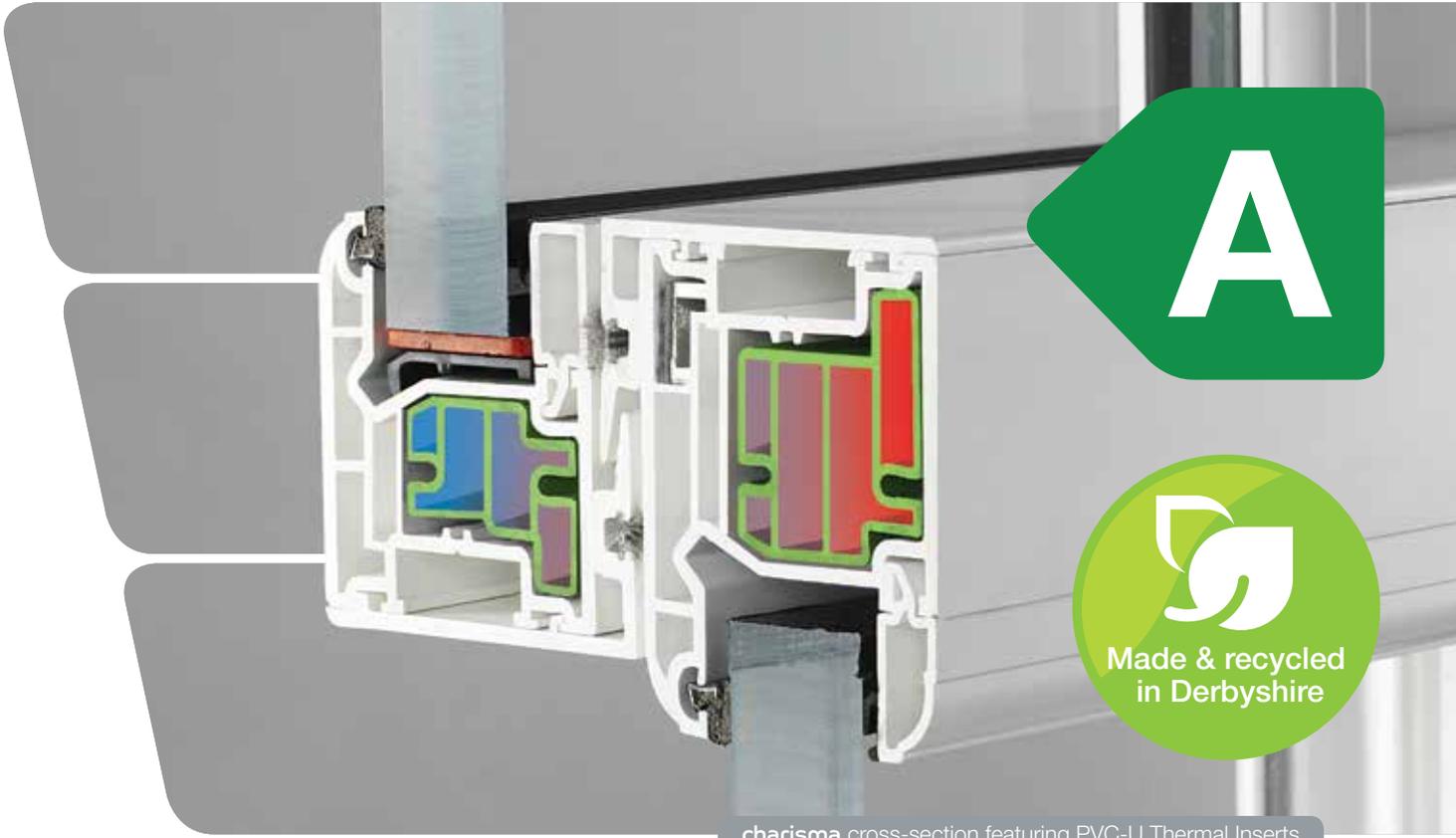
Eurocell is a pioneer in the development of advanced PVC-U window systems. You have the reassurance that our vertical sliding sash window is manufactured to BSI quality standards for PVC-U profile, with the system also being BBA approved.

## Appealing classical aesthetics

Charisma vertical sliding sash windows from Eurocell are guaranteed to add a touch of class to any property. With traditional styling and a host of

decorative finishing touches, they echo the elegance of the Georgian era and create an eye-catching feature for any home. The system's superior aesthetics are achieved with a combination of slim sightlines and attention to styling details. Optional ovolo Georgian bars and ovolo crash stops co-ordinate with the sculpted frames to give a classic cottage look, which is enhanced by decorative horns.

Unique slot-in end caps for Georgian bars and security bars are sculpted to fit flush with the window frame, removing any need for difficult and time-consuming milling. We have also developed a unique Georgian bar cruciform moulding to create a neat finish at the crossing point of vertical and horizontal bars (see page 5 for visuals of finishing options). Such attention to detail means that every homeowner choosing a Eurocell **charisma** vertical sliding sash window gets the same premium quality, precision-finished and artistically styled sliding sash window.



charisma cross-section featuring PVC-U Thermal Inserts

**A-rated**

charisma vertical sliding sash window

**1.4**  
u value

**0.44**  
solar factor

'A' rating achievable. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature. Official certification available.

For more specific information on vertical slider energy ratings, go to page 7

### Design-engineered for thermal performance

The three-chambered PVC-U profile offers excellent thermal insulation, while triple brush seals around the openings deliver outstanding draught-proofing.

### A-rated energy efficiency

Vertical sliders may have a traditional look, but energy efficiency performance could not be more up to date – offering exceptional energy efficiency and draught-proofing for 'A'-rated performance.

Not only can you win customers over with the classic design and 21st century engineering, you can shout about the exceptional energy efficiency the Eurocell **charisma** vertical slider has to offer – which is great news for consumers looking to reduce their energy bills.

### Innovative PVC-U Thermal Inserts

PVC-U Thermal Inserts for **charisma** vertical sliding sash windows are the sustainable way to improve window energy efficiency.

The multi-chambered design delivers significantly improved thermal performance, more efficient fabrication and 20% lighter weight than windows with conventional steel reinforcements.

Plus, PVC-U Thermal Inserts are manufactured using 100% post-consumer recycled material. What's more, it means that the entire window frame is recyclable - making it quicker and simpler to re-use post-consumer windows.

**Note** - PVC-U Thermal Inserts are coloured green for illustration purposes only.

# The ultimate combination of classic design and 21st century engineering



Versatile ventilation – it tilts!



Vertical sliders on a new build property

## Refreshing ventilation

The Eurocell **charisma** vertical sliding sash window system has been designed to offer superior ventilation. Both top and bottom sashes can be partially opened, encouraging fresh air to enter the building at the bottom of the window while warm, stale air escapes at the top. It means that air is able to circulate constantly, keeping rooms fresh and comfortable. The window also features an overhead vent, allowing fresh air to flow all year round without compromising security.

## Tilt-and-slide for simple maintenance

As well as sliding up and down, both sashes in the window also tilt inwards. This innovative slide-and-tilt slide mechanism means that the outer glass panes can be cleaned safely and easily from within the building.

## Safe and secure

Security is a major concern for all homeowners, and the Eurocell **charisma** vertical sliding sash window has been specially designed to keep intruders at bay. It features a tough aluminium anti-jemmy bar to prevent the sash from being levered open, as well as a choice of high-security locks.

The windows offer excellent fire safety too, as a large enough opening can be created and used as a means of escape, in line with the requirements of Building Regulations Part B (fire safety).

# Style with substance

A choice of design features and finishes to suit every property



All together better



**NEW!** charisma classic unique-design decorative horns



**NEW!** Deep bottom rail for charisma classic

## More colours and finishes available



White



White Ash



Cream



Cream Woodgrain



Golden Oak



Rosewood



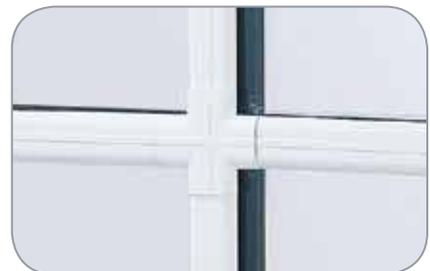
Irish Oak

Other colours are also available to special order, on extended lead times.

Product specification is subject to change without notification. Please also note that colours shown are illustrative only, as the printing process does not allow 100% accurate colours to be reproduced.



Slot-in end caps



Cruciform moulding



Ovolo sculpted cill



Sash lock



**NEW!** Infill trim

# Maximum energy efficiency

For minimum environmental impact



Lock the heat in with A-rated windows

## Increasing demand for energy efficient windows

Delivering superior energy efficiency has never been more important for the construction industry and homeowners. It's an alarming fact that our homes and buildings are responsible for almost half of the UK's carbon dioxide emissions.

Windows have an important role to play in combating energy wastage, since 20% of the heat escaping from an average home is lost through its windows\*.

## The green option you can afford

Eurocell helps builders and homeowners to meet their environmental objectives - without having to pay a premium for going green. Fitting Eurocell PVC-U Thermal Inserts in vertical sliding sash windows profiles to boost the thermal efficiency of your windows provides better value than steel alternatives. And they are made from 100% recycled material.

\* Source: Energy Saving Trust

## A guide to Window Energy Ratings

### What are energy ratings?

Window Energy Ratings (WER) are a simple, clear and easily understood method of informing customers of the relative energy efficiency of a particular window. The windows are rated on an A to G scale, which is consistent with other products such as light bulbs and white goods.

### How are they calculated?

The rating is determined by a formula which takes into account various factors, all of which have an effect on the overall energy performance of the window:

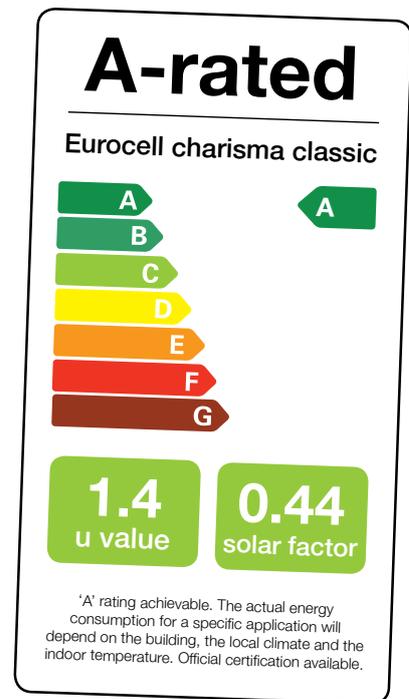
- ✓ UK Standard Domestic Occupancy
- ✓ UK Climate Data
- ✓ Thermal Transmittance (U Value)
- ✓ Solar Factor (G Value)
- ✓ Air Leakage (L Value)

### What do WER labels tell you?

The labels are similar to those currently used on other household appliances, an A-rated window is the most efficient, with G the least efficient.

### Energy Index performance

The Energy Index is a ranking system for the amount of energy lost or gained by window, measured in kwh/m<sup>2</sup>/year. Put simply, the more positive the number, the better the performance. You can see that PVC-U Thermal Inserts significantly improve Energy Index performance.



## Specification options

### Vertical sliding sash window with PVC-U Thermal Inserts reinforcing performance table

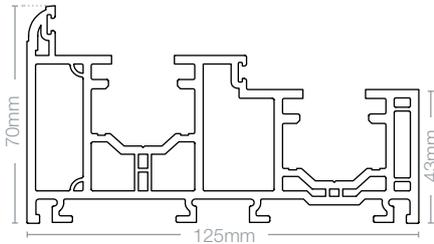
System	Config	Glass 1 (external)	Glass 2 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy Index	U value
charisma (standard)	4/16/4	SG Diamant	SG Planitherm Total PLUS	Argon	Swisspacer V (5.5mm polysulfide)	PVC-U Thermal Inserts		10	1.4
charisma (standard)	4/16/4	Float	Pilkington K	Argon	Swisspacer V (5.5mm polysulfide)	PVC-U Thermal Inserts		-3	1.6

Other options to configure an 'A'-rated window available, please contact Eurocell technical department for more information.

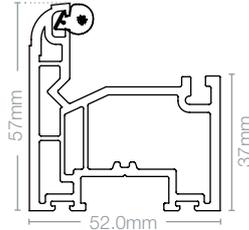
### Vertical sliding sash window with steel and aluminium reinforcing performance table

System	Config	Glass 1 (external)	Glass 2 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy Index	U value
charisma (standard)	4/16/4	SG Diamant	SG Planitherm Total PLUS	Argon	Swisspacer V (5.5mm polysulfide)	Steel / Aluminium		2	1.5
charisma (standard)	4/16/4	Float	SG Planitherm Total PLUS	Argon	Swisspacer V (3mm polysulfide)	Steel / Aluminium		-4	1.5

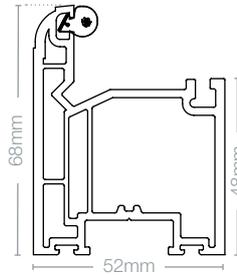
## Main profiles



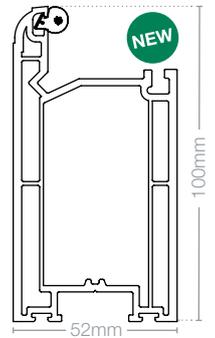
Frame  
**VSW001**



Slim top sash  
**VSW002**

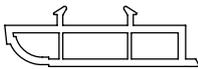


Medium bottom sash  
**VSW003**

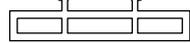


charisma classic  
Deep bottom rail  
**VSW004**

## Ancillaries



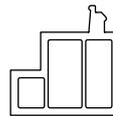
Ovolo frame stop  
**VSW107**



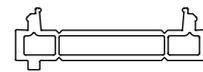
Frame stop  
**VSW102**



Coupler cap  
**VSW114**



Adaptor frame extension  
**VSW103**

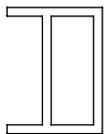


10mm add-on  
**VSW104**

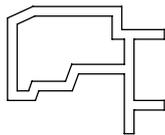


Interlock  
**VSW101**

## Aluminium components



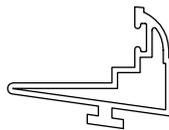
Frame reinforcement  
**VSW501A**



Slim top sash reinforcement  
**VSW502A**



Medium bottom sash reinforcement  
**VSW503A**



Security bar  
(white powder coating)  
**VSW504A**

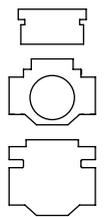


Coupler  
**VSW505A**



charisma classic  
Deep bottom rail reinforcement  
**VSW514A**

## Misc



Window enhancement pack  
**VSW404**

## Beads and brush seal



Infill trim  
**VSW109**  
(white only)



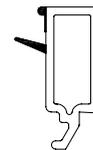
Brush seal (frame)  
**VSW401G**



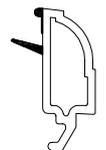
Brush seal (sash)  
**VSW402G**



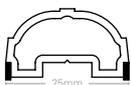
Overhead vent insert  
**VSW105**



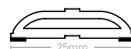
Square bead  
**VSW301**



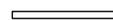
Ovolo bead  
**VSW302**



External Georgian bar  
**VSW303**



Internal Georgian bar  
**VSW304**



19mm Georgian bar tape  
**EWS419**



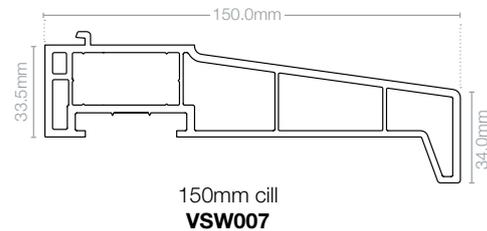
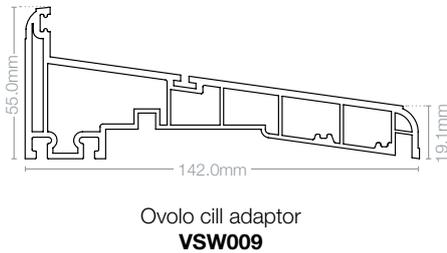
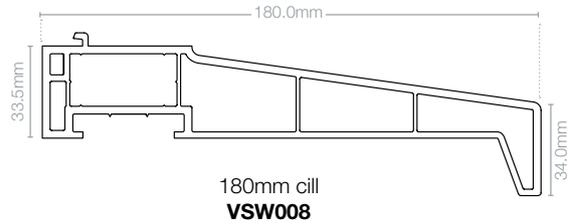
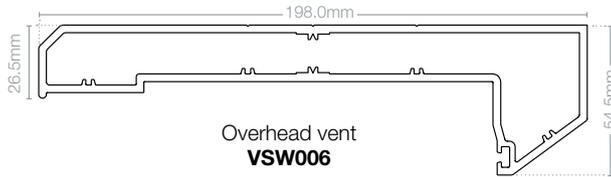
22mm Georgian bar tape  
**EWS420**

# charisma

Vertical sliding sash system

NOTE: Drawings not to scale

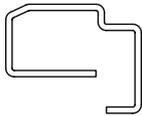
## Cills



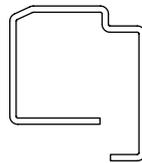
## Steel components



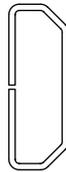
Mainframe reinforcement  
**VSW601S**



Slim top sash reinforcement  
**VSW602S**



Medium bottom sash reinforcement  
**VSW603S**

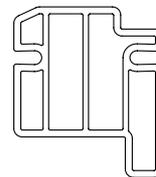


Mainframe reinforcement  
**VSW604S**

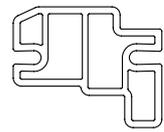


Cill adaptor reinforcement  
**VSW605S**

## PVC-U Thermal Inserts



**VSW803P**

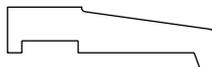


**VSW802P**

## Accessories



Cill adaptor end cap  
**VSW205**



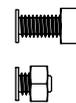
150mm cill end cap  
**VSW207**



180mm cill end cap  
**VSW208**



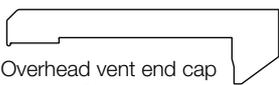
Glass packer  
**VSW203**



Spring balance fixing kit  
**VSW607S**



Fixing cleat  
**VSW608S**



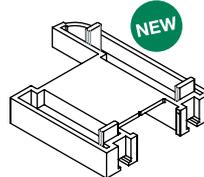
Overhead vent end cap  
**VSW206**



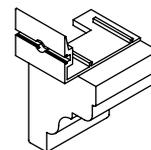
Security bar end cap  
**VSW204**



Slimline Georgian bar moulding  
**VSW306**



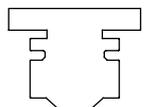
**charisma classic**  
Deep bottom rail end moulding  
**VSW214**



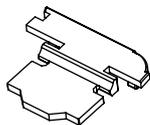
Decorative horn  
**VSW201**



**charisma classic**  
Through horn  
**VSW210**



Frame stop cap  
**VSW202**



Ovolo crash stop end cap  
**VSW209**



Georgian bar fixing kit  
**VSW606S**

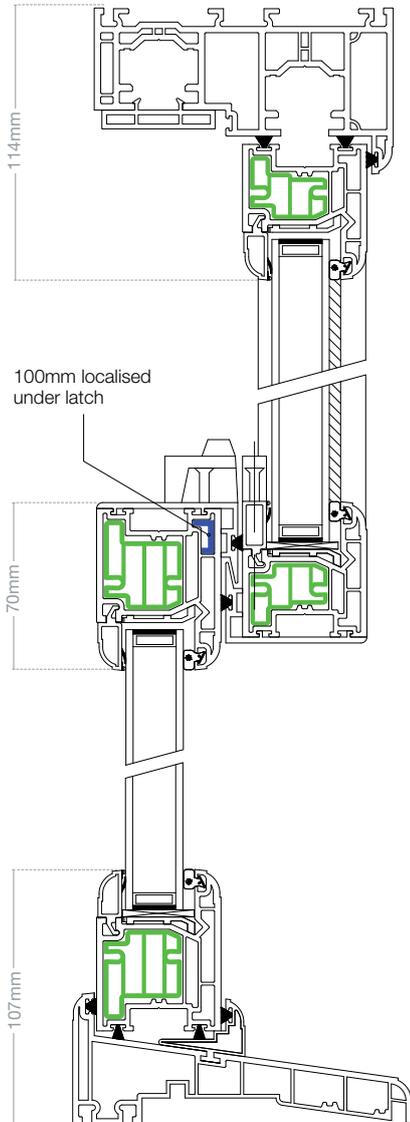


Georgian bar end cap  
**VSW305**

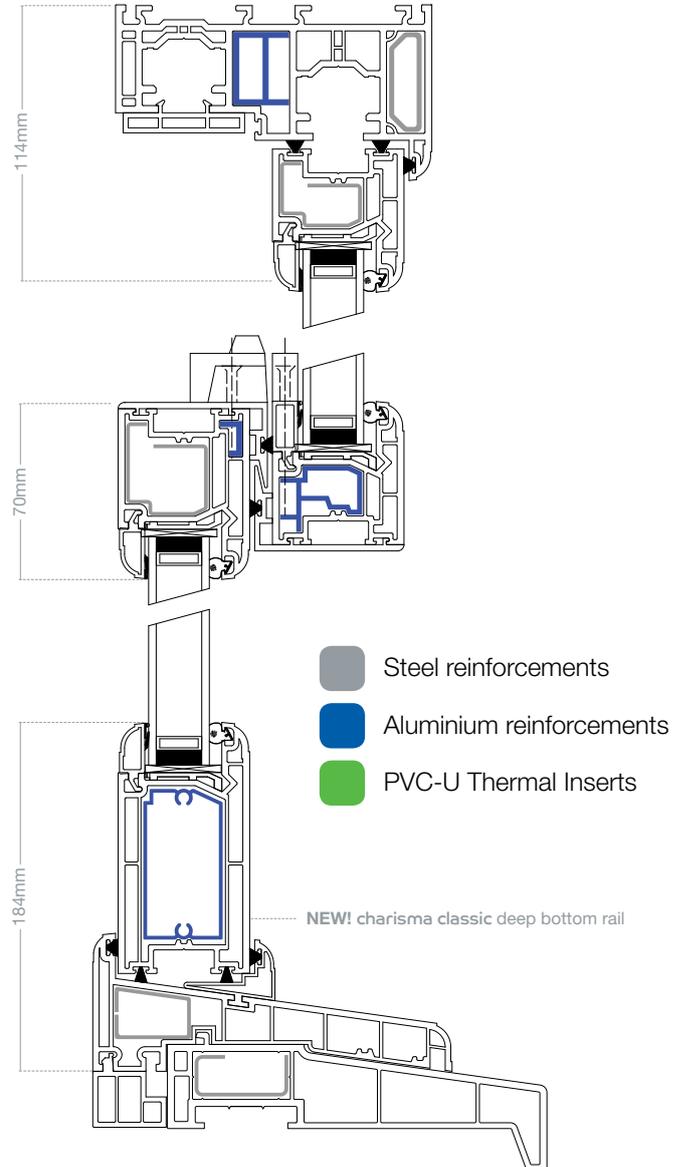
# Technical specification

## Internally beaded system

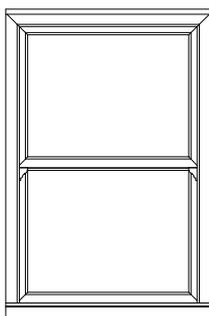
### charisma A-rated specification\* with PVC-U Thermal Inserts



### charisma classic C-rated specification\* with steel and aluminium reinforcements charisma classic is also available in an A-rated specification



#### Manufacturing limitations



##### Sizes

Minimum width: 400mm  
 Minimum height: 640mm  
 Maximum width: 1600mm (1250mm)  
 Maximum height: 2400mm (1500mm)

##### Where reinforcements are to be used

Cill adaptor and sashes: All  
 Outer frames (vertical): 1400mm+  
 Outer frames (horizontal): 1000mm+  
 Woodgrain profiles: All

Green text denotes min/max sizes for A-rated windows

#### Technical specifications

- ✓ 125mm front-to-back dimension
- ✓ 24mm glazing units
- ✓ Window sizes up to 1600mm (w) x 2400mm (h)
- ✓ Galvanised steel reinforcements, aluminium reinforcements or PVC-U Thermal Inserts
- ✓ Internal webs for maximum stability and impact resistance



BBA assessment report number 2571 (Vertical slider)

\* To be used in conjunction with the Charisma fabrication manual



Cream **charisma** vertical sliding sash windows fitted to an 18th century cottage in a conservation area

## Project: Replacement sash windows in conservation area

Eurocell's **charisma** vertical sliding sash windows have received the thumbs-up from owners of an 18th century cottage in a conservation area of Leicestershire.

The cottage had previously been fitted with green-painted Yorkshire sliding sashes, manufactured from timber, which had rotted beyond repair and were resulting in uncomfortable draughts.

Having to continually re-paint and repair the windows had been the final straw for the owners and they therefore took the decision to replace them.

Being in a conservation area meant that the windows had to fit in with the other properties in the village. After a thorough consideration of all the alternatives, the owners chose **charisma** vertical sliding system.

**charisma** offered the best combination of aesthetics and performance, helping to retain the charm of this centuries old cottage. The cream coloured profiles of **charisma** are through-coloured, which means they will retain the visual appeal of the windows for many years to come. Georgian bars were selected to further help the property remain in-keeping with nearby historical buildings.

Unlike the poorly fitting sashes on the timber windows, **charisma** features triple seals for exceptional draft proofing and an anti-jemmy bar and steel reinforcement for enhanced security, adding another reason why the windows were chosen.

Above all, the owner is looking forward to not having to continually re-paint the windows, helped by the cream profile systems being through-coloured, which means even deep scratches never show.



**charisma** suits traditional surroundings



*All together better*

To discuss your requirements in more detail, call our customer services team on **0800 988 3047**, or visit **eurocell.co.uk**

Eurocell plc, Fairbrook House, Clover Nook Road, Alfreton, Derbyshire DE55 4RF



VSGUIDE/JAN13/CC