

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!

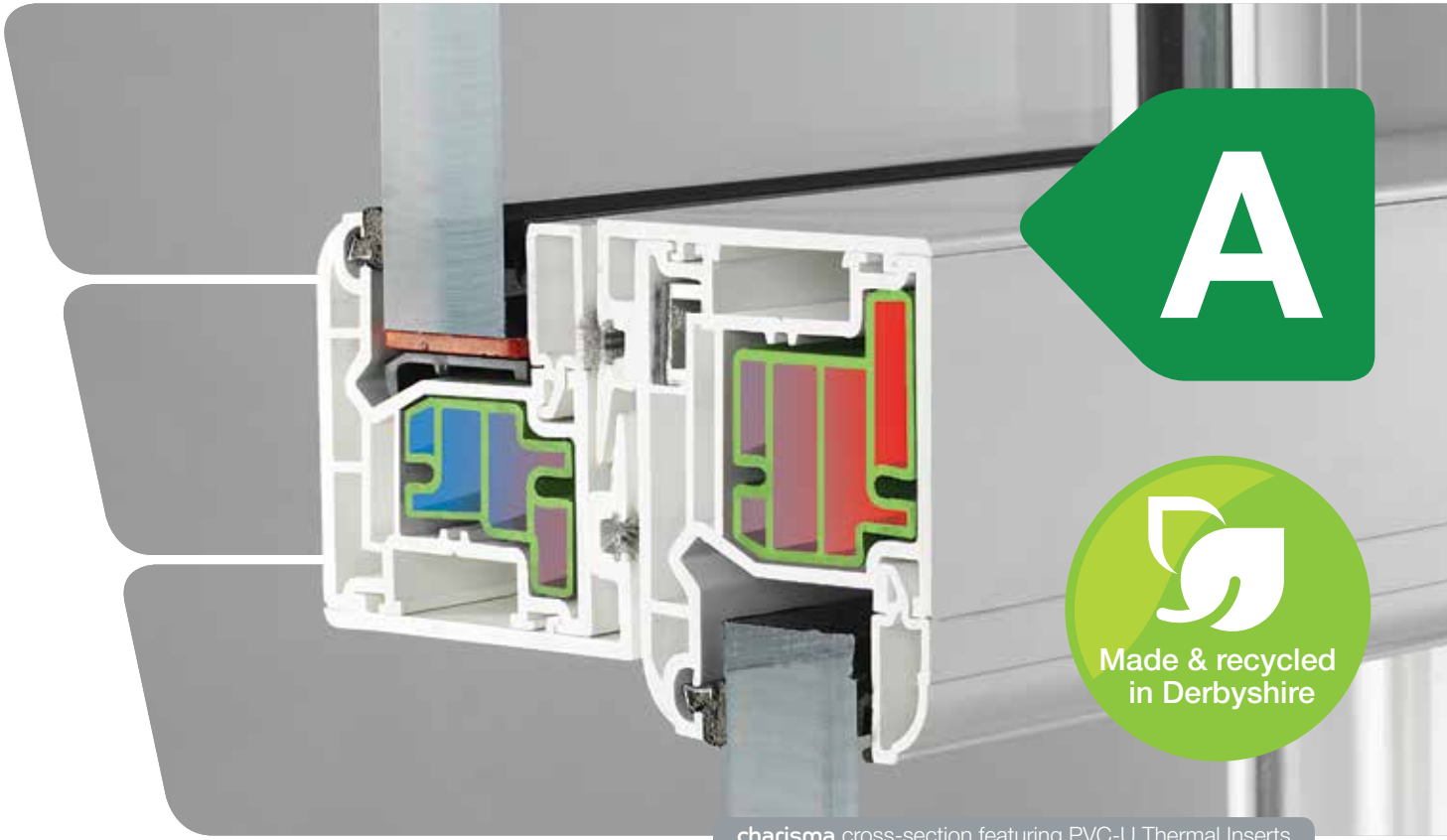
Eurocell is a pioneer in the development of advanced PVC-U window systems. You have the reassurance that our vertical sliding sash window is manufactured to BSI quality standards for PVC-U profile, with the system also being BBA approved.

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:

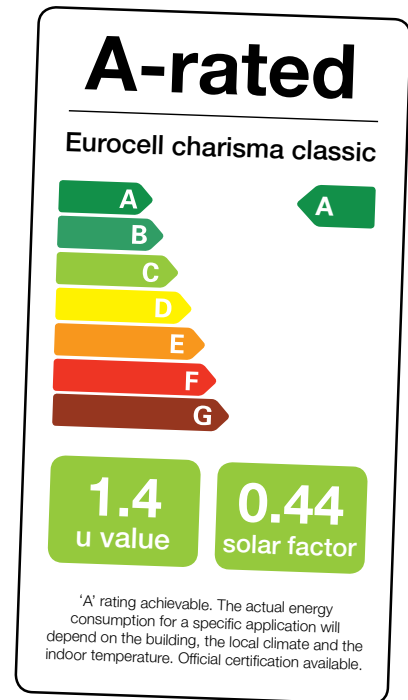
- ✓ UK Standard Domestic Occupancy
- ✓ UK Climate Data
- ✓ Thermal Transmittance (U Value)
- ✓ Solar Factor (G Value)
- ✓ Air Leakage (L Value)

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/m²/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

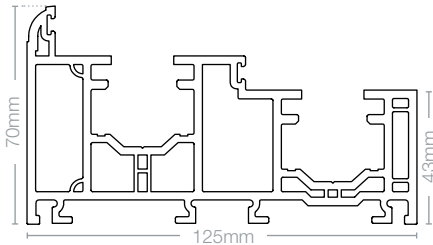
System	Config	Glass 1 (external)	Glass 2 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy Index	U value
charisma (standard)	4/16/4	SG Diamant	SG Planitherm Total PLUS	Argon	Swisspacer V (5.5mm polysulfide)	PVC-U Thermal Inserts	A	10	1.4
charisma (standard)	4/16/4	Float	Pilkington K	Argon	Swisspacer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

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

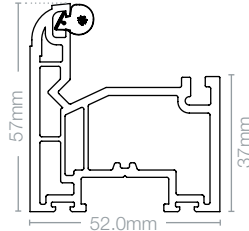
Vertical sliding sash window with steel and aluminium reinforcing performance table

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	A	2	1.5
charisma (standard)	4/16/4	Float	SG Planitherm Total PLUS	Argon	Swisspacer V (3mm polysulfide)	Steel / Aluminium	B	-4	1.5

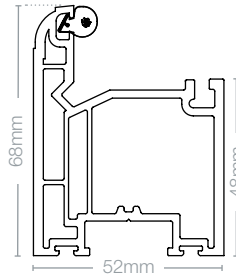
Main profiles



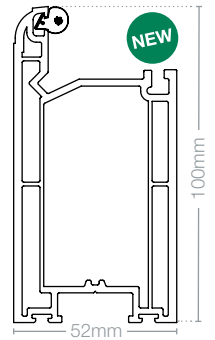
Frame
VSW001



Slim top sash
VSW002

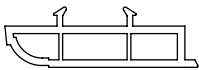


Medium bottom sash
VSW003

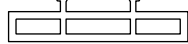


charisma classic
Deep bottom rail
VSW004

Ancillaries



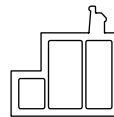
Ovolo frame stop
VSW107



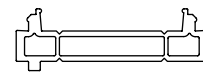
Frame stop
VSW102



Coupler cap
VSW114



Adaptor frame extension
VSW103

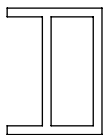


10mm add-on
VSW104

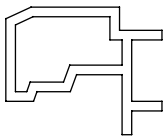


Interlock
VSW101

Aluminium components



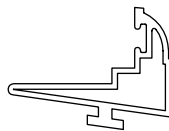
Frame reinforcement
VSW501A



Slim top sash reinforcement
VSW502A



Medium bottom sash reinforcement
VSW503A



Security bar
(white powder coating)
VSW504A

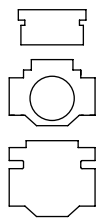


Coupler
VSW505A



charisma classic
Deep bottom rail reinforcement
VSW514A

Misc



Window enhancement pack
VSW404

Beads and brush seal



Infill trim
VSW109
(white only)



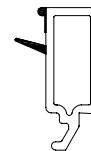
Brush seal (frame)
VSW401G



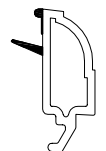
Brush seal (sash)
VSW402G



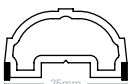
Overhead vent insert
VSW105



Square bead
VSW301



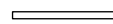
Ovolo bead
VSW302



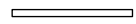
External Georgian bar
VSW303



Internal Georgian bar
VSW304



19mm Georgian bar tape
EWS419



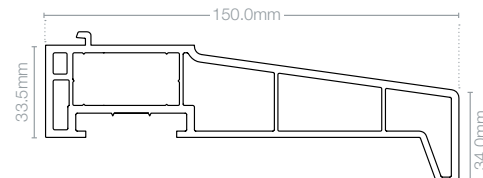
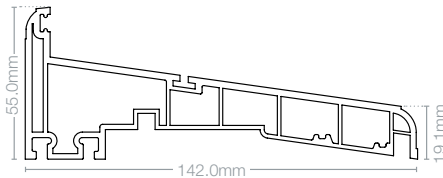
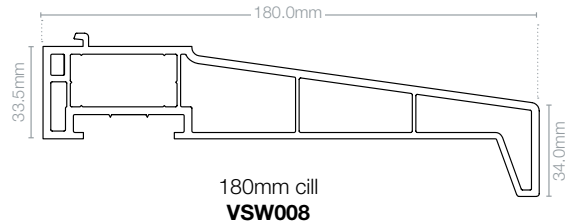
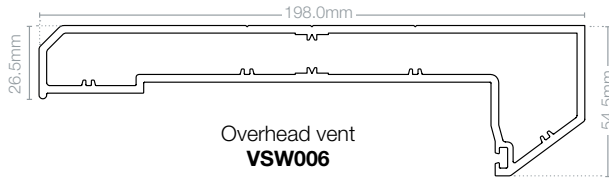
22mm Georgian bar tape
EWS420

charisma

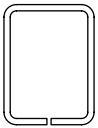
Vertical sliding sash system

NOTE: Drawings not to scale

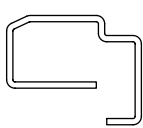
Cills



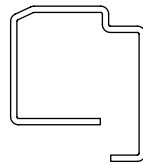
Steel components



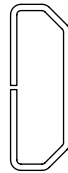
Mainframe reinforcement
VSW601S



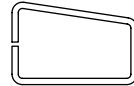
Slim top sash reinforcement
VSW602S



Medium bottom sash reinforcement
VSW603S

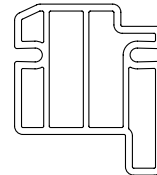


Mainframe reinforcement
VSW604S

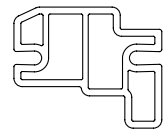


Cill adaptor reinforcement
VSW605S

PVC-U Thermal Inserts



VSW803P



VSW802P

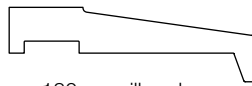
Accessories



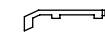
Cill adaptor end cap
VSW205



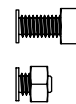
150mm cill end cap
VSW207



180mm cill end cap
VSW208



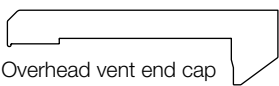
Glass packer
VSW203



Spring balance fixing kit
VSW607S



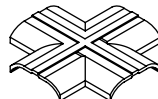
Fixing cleat
VSW608S



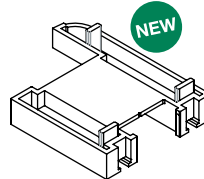
Overhead vent end cap
VSW206



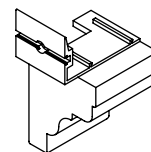
Security bar end cap
VSW204



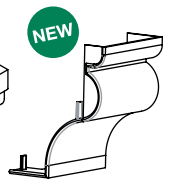
Slimline Georgian bar moulding
VSW306



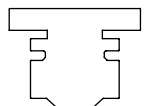
charisma classic
Deep bottom rail end moulding
VSW214



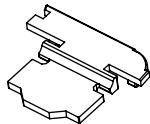
Decorative horn
VSW201



charisma classic
Through horn
VSW210



Frame stop cap
VSW202



Ovolo crash stop end cap
VSW209



Georgian bar fixing kit
VSW606S

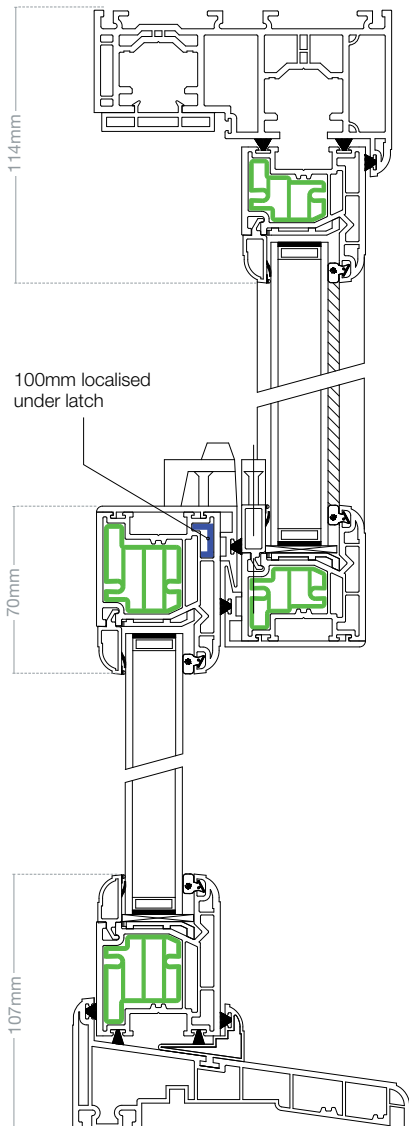


Georgian bar end cap
VSW305

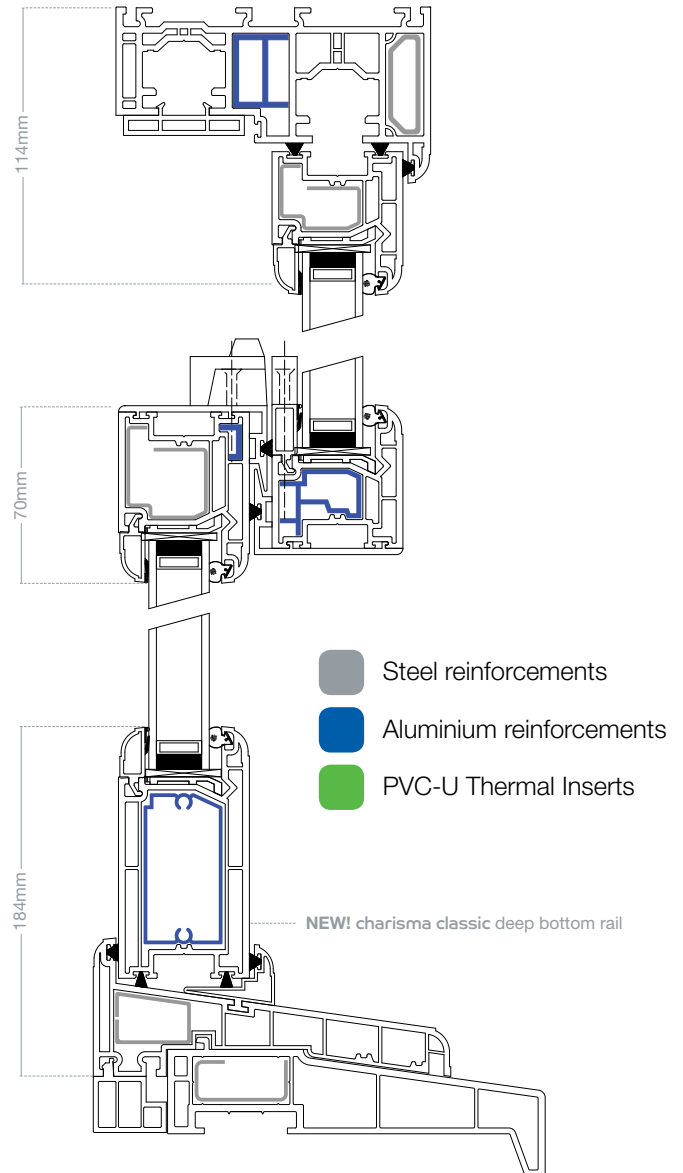
Technical specification

Internally beaded system

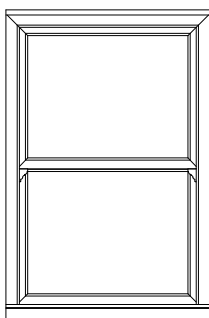
charisma A-rated specification* with PVC-U Thermal Inserts



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-jimmy 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**

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