



Eurocell Profiles Specification Guide

Window systems
Door systems
Conservatory roofs
Cavity closers
...and more!



All together better



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eurologik70

70mm window and door system

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unilogik62

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charisma and charisma classic

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aspect

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euroslide

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Discover Eurocell

The UK's leading PVC-U specialists



Eurocell is built on the strengths of the window, door and ancillary systems it offers. Focused on responding to customer needs, Eurocell is committed to remaining at the forefront of the PVC-U systems market

Product development

Eurocell's design and development team is constantly working with extrusion toolmakers, fabricators, hardware suppliers and clients to formulate ways of improving and developing our products even further. This partnership approach, coupled with extensive market research, is a major factor in the success of the Eurocell product range.

Designed on CAD, the window and door systems are produced using the most modern high-speed extrusion equipment available today.

Technical support

Eurocell's technical staff are on hand to help and assist customers with specific project needs and to offer advice and solutions to technical questions. With a vast amount of practical experience and a firm grounding in realistic working practices in manufacturing environments, the technical support team have the expertise, knowledge and backing to provide first class support whatever your needs.

Support on window design, specifications, structural calculations and wind-loadings

can be provided, also cross sections and general assembly drawings can be made available as required.

Distribution

Supported by our own fleet of over 200 delivery vehicles and a modern logistics centre, Eurocell is committed to delivery on time and to working with its customers and suppliers to ensure all agreed time scales are adhered to.



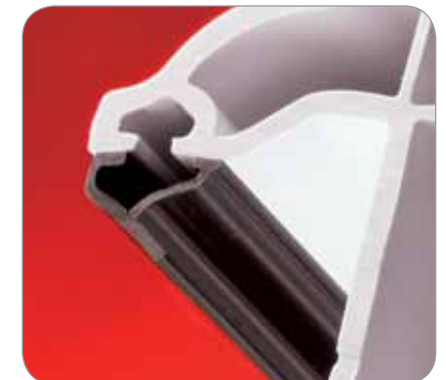
A guide to specification



Multi-chambered profiles



PVC-U thermal inserts



Co-extruded weather seals

Balancing an ideal specification against an actual budget can be difficult – and for this reason, we recommend specifiers obtain project specific advice from the Eurocell technical department. However, the following provides an initial guide:

Fabrication

All main profiles are of multi-chambered construction for enhanced thermal performance, strength and effective separation of reinforcement from drainage channels. Our systems are fully welded, however, transoms and mullions can also be mechanically jointed using specially designed tooling and reinforcement. All frames must be manufactured in strict accordance with Eurocell technical manuals.

Weather performance

All window systems conform to the provisions of BS 6375 Part 1.

Specifiers are recommended to seek guidance from the Eurocell technical department for actual requirements of specific schemes/strengths.

Operation and strength

All window systems must meet the requirements of BS 6375: Part 2, specification for window operation and strength characteristics. Any optional safety or security additions should be

vetted separately. All opening lights at first floor level and above must conform to the requirements for safe window cleaning of Code of Practice BS 8213: Part 1.

Reinforcement

All window and door systems should be reinforced in accordance with the guidelines set out in the appropriate Eurocell technical manual.

Glass and glazing

All glazing must satisfy the requirements of the Code of Practice BS 6262 and meet the requirements of BS EN 1279. Thermal and sound insulation can be dramatically improved by the use of specialist glazing products.

Hardware

Eurocell window systems have been designed to be compatible with a wide range of hardware, and to cater especially for safety, security and the needs of the elderly and disabled.

Ventilation

A range of ventilation options is available – adjustable ventilators to meet the Building Regulation Approved Document F requirements, and permanent ventilators for combustion air complying with BS 5440: Part 2.

Maintenance and cleaning

The faces of window frames should be cleaned every 3-4 months with warm water and a mild liquid detergent. Abrasive cleaning agents should not be used. Proprietary glass cleaner is recommended for sealed units. Hardware should be lubricated with a light machine oil every 6-12 months. Concise guidance notes should be offered to end-users for routine maintenance and corrosion protection.

Weather seals

Eurocell window systems use post co-extruded gasket weather seals for optimum performance and ease of fabrication.

* Do not use any type of solvent to clean foiled products

Our product range

At a glance



Constantly evolving, the Eurocell range of PVC-U systems offer high performance, coupled with distinctive aesthetic features that set them apart from the competition

eurologik70 70mm window and door system

The Eurocell **eurologik70** profile system combines leading energy efficiency performance and aesthetics with ease of use, for the ultimate system.

Ideally suited for new build or replacement windows, its 70mm front-to-back dimension enables the seamless replacement of timber frames.

The **eurologik70** system enables casement windows, French windows, tilt and turn windows, residential and French doors to be fabricated.

unilogik62 62mm window system

unilogik62 window and door system is designed around a 62mm front to back dimension, making it ideal for new build,

refurbishment and renovation work. The **unilogik62** system enables casement windows, tilt and turn windows, residential and French doors to be fabricated.

charisma Vertical sliding sash window system

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

As one of the most highly-engineered vertical sliding window system on the market, **charisma** captures the looks of the Georgian era, with none of the associated problems of draughts, rattling sashes and high-maintenance.

Plus, the addition of the **classic** range means you can now specify PVC-U

windows in hard to specify areas, such as heritage sites and conservation areas.

Reversible window system

Designed around a 70mm front-to-back dimension, the Eurocell reversible window system allows the sash to slide and tilt through 180°.

Particularly suitable for multi-storey applications (thanks to the reversible design which allows easy cleaning from within the building), reversible windows are great for replacement projects – such as large scale housing projects – as well as being ideal for the new build sector.

Cavalok cavity closers

Cavalok PVC-U cavity closers are the simplest, most effective components for sealing cavities around openings in any wall – whether masonry, timber or

steel. They are an essential component for any new-build project – large or small – helping to maximise thermal efficiency performance, whilst minimising time spent on site and boost the productivity of installation teams.

We offer a wide range of closers, and other innovative products, which can be found within this guide.

aspect Panoramic door system

This high-performance, secure and visually stunning bi-fold door system offers all the aesthetic and functional benefits of timber and aluminium alternatives, but at a more affordable price point.

aspect incorporates a host of intelligently designed and precision-engineered bespoke components that enable consistent, straightforward fabrication and installation – setting new standards for PVC-U bi-folding doors.

the dales collection Composite doors

the dales collection of composite doors offers the most advanced

engineering, design and technology for front or back entrance doors.

the dales collection offers unrivalled aesthetics, security and energy efficiency for all residential buildings – whether new build or refurbishment.

euroslide In-line patio doors

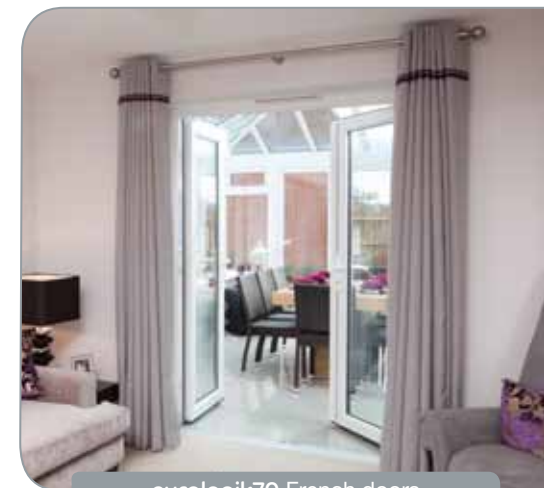
The system offers a host of innovative design features, including anti-lift and anti-misuse devices and is available in 2, 3 or 4 pane options.

The **euroslide** in-line patio door system is compatible with the Eurocell **eurologik70** window and door systems.

Eurocell conservatory roof system

Eurocell's innovative conservatory roof system is design-engineered for faster, smoother installation and years of trouble-free performance.

The system is available in various styles and colours, to suit every project.



eurologik70 French doors



2-pane euroslide in-line patio doors

Helping you meet Building Regulations

For a sustainable future



Towards more sustainable buildings

Sustainability is the biggest single issue facing the construction industry today. The Government has set tough carbon emissions reduction targets for the sector, through stricter Building Regulations and the Code for Sustainable Homes. As a result, all new-build homes and commercial buildings will need to be 'carbon zero' by 2016 and 2018 respectively.

The construction sector in particular is being targeted for improvements because buildings are responsible for around half of the UK's CO₂ emissions. What's more, approximately 20% of the heat escaping from any home is lost through its windows, making energy-efficient windows a primary requirement for installers, fabricators and contractors.

PVC-U – the sustainable option

PVC-U building components are now recognised as a truly sustainable option, thanks to advances in recycling. When old PVC-U windows are removed from

buildings they can now be recycled and fabricated into new finished products – up to ten times – with no detriment to the physical properties of the PVC-U. Combine this with the average 35-year lifespan of a PVC-U window (Source: BRE), and customers can enjoy 350 years of re-use with minimal impact on the environment.

That's why PVC-U windows have now achieved the highest rating possible in the Building Research Establishment (BRE) Green Guide to Specification, receiving an 'A' rating for residential buildings and an 'A+' rating for commercial projects. Eurocell PVC-U wall cladding has also been awarded an 'A+' rating in this influential guide.

Eurocell helping you

All of our window systems comply with Part L of the Building Regulations.

The performance of our window systems can be improved greatly by using very low-emissivity glazing, gas filled units, warm edge spacer bars and other enhancements to satisfy

the most stringent requirements.

At Eurocell we have BFRC-certified simulators who are fully qualified to calculate u-values and WER's and give advice on requirements for compliance. Please contact our technical department for more information.

Part L Building Regulations

The latest amendment to Part L of the Building Regulations in England and Wales came into effect on 1 April 2010* and carries the following recommendations for windows:

Replacement windows

U value 1.6W/m²k or less or Window Energy Rating 'C'

Windows in an extension

U value 1.6W/m²k or less or Window Energy Rating 'C'

New build

U value determined by Target Emission Rating (TER) in Standard Assessment Procedure (SAP) 2010 G-value '11'

* The next revision to Part L is scheduled to come into force in April 2014

A guide to Window Energy Ratings (WER)

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 (Window U Value)
- ✓ Solar Factor (G Value)
- ✓ Air Leakage (L Value)

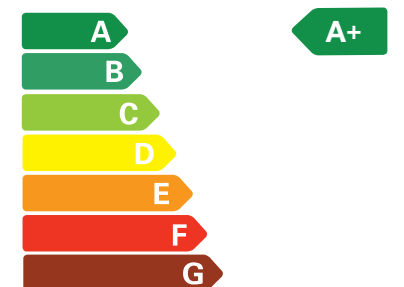
What do WER labels tell you?

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.

For information or advice regarding Door Energy Ratings (DERs), please contact our technical department

A-rated

Eurologik70 casement window with Thermalogik outerframe



1.3
u value

0.47
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.

Post-consumer recycled PVC-U

In-house closed-loop recycling using reclaimed PVC-U



eurologik70 is made using post-consumer recycled material (shown in green)

Continuous recycling eliminates waste

Eurocell has its own post-consumer PVC-U recycling plant in Derbyshire which recycles 22,000+ tonnes of reclaimed PVC-U each year, enabling us to create an endless ‘closed loop’ of recycling and re-use for windows and doors. We use recycled material in the manufacture of many of our finished products. In fact, our PVC-U Thermal Inserts and Cavalok cavity closer systems are manufactured entirely from recycled post-consumer PVC-U.

Eurocell also re-uses virtually 100% of its production waste. This amounts to around 3,000 tonnes of recycled PVC-U each year. The result is virtually zero Eurocell manufacturing waste product going to landfill.

Accredited environmental systems and policies

At Eurocell, we continuously strive to improve our own environmental performance and reduce our carbon footprint. Our environmental management systems have achieved the widely recognised ISO14001 accreditation.

Furthermore, our environmental policy commits us to ongoing improvements that will help to reduce carbon emissions from transport and energy use, improve energy efficiency within our business and offer more energy-efficient products to our customers, as well as further reducing waste and promoting recycling in all areas of our business.



Accredited



Materials Recycler of the Year
Winner 2012



Did you know?

PVC-U can be recycled up to 10 times without any degradation in quality. This means that a piece of PVC-U can be used for up to 350 years!

Our accreditations

Guaranteeing high quality standards



Meeting regulations

All Eurocell products are manufactured to stringent specifications in a carefully quality controlled environment where high standards can be maintained and guaranteed. To give customers the assurance that all Eurocell products meet the highest standards, we have achieved accreditation from leading UK certification bodies.

Eurocell products meet the requirements of current Building Regulations, and exceed the standards set out in Part L1 and 2 Conservation Of Fuel & Power (Windows).

As new regulations are introduced, Eurocell remains committed to meeting and exceeding these ever more demanding standards, so that we continue to set the quality benchmark for the building plastics industry.



Accreditations Eurocell holds include:



Assessment report number 2480
The Eurologik window and door system



Assessment report number 00/3673
The Cavalok cavity closer system



Assessment report number 2663
The Eurocell vertical slider system



BPF Windows Group give codes of practice guidelines and recommendations for both surveying and installation of PVC-U windows and door-sets



BS EN ISO 9001:2008

Certificate number FM 45551
BSI registered firm.
Quality Management System



ISO 14001
Eurocell's environmental management activities are ISO 14001 accredited



Member of PVC-U Aware
An industry body responsible for the advancement of PVC-U sustainability

BRE supply partner to the Exemplar projects



Eurocell's BS 7950 high security windows have gained Secured by Design status



Eurocell's composite doors have gained Secured by Design status



BS EN 12608 (certificate number KM 32821)
Specification for white PVC-U extruded hollow profiles with heat welded corner joints for plastic windows and Eurocell window systems, type 'A' material



BS 7950 (certificate number KM 52187)
Specification for enhanced security performance of windows for domestic applications

PAS 23/24

Eurocell Eurologik door system
BBA test centre. To-PAS 24
BSI assessment number KM500319
Certificate number 1663. To-PAS 23-1
BSI assessment number KM500319

PAS 23/24

Eurocell composite door system
ERA test centre
To-PAS 23-1 and PAS 24-1
Certificate number 050

PAS 23/24

Eurocell Aspect panoramic doors
Winkhaus Laboratories test centre
To-PAS 23-1 and PAS 24-1
Certificate number TR1147



Eurocell composite door system
Q-Mark Enhanced Security Door - PAS 23 & 24
Certificate number 098

eurologik70

70mm window and door system

eurocell
All together better



eurologik70 windows and French doors in Grey on a mixed residential/commercial development

Overview

A profile system designed for enhanced aesthetics and ease of fabrication

The Eurocell **eurologik70** profile system combines leading energy efficiency performance and aesthetics with ease of use, for the ultimate system.

eurologik70 is specially designed for ease and speed of fabrication and fitting, featuring a unique, patented knock-in bead system. Ideally suited for new build or replacement windows, its 70mm front-to-back dimension enables the seamless replacement of timber frames.

eurologik70 is designed for improved aesthetics and clean sight lines, with its unobtrusive gasket line and slim profile. The profile design features multiple chambers to enhance thermal efficiency and strength, and improve drainage. Available with chamfered or sculptured ovolo beads in a range of colours, **eurologik70** window profiles add a touch of distinction to any development.

Leading energy efficiency

Maximising the thermal performance of windows is vital to meet rising regulatory and customer demands. The advanced multi-chambered design of the main **eurologik70** profiles (including the optional six-chamber slim outer frame system) and innovative PVC-U Thermal Inserts work together to lock in heat. This means our 'A'-rated windows offer market-leading double-glazed unit performance and value.

Exceptional air tightness and weathering performance

The post co-extruded (PCE) gaskets on **eurologik70** profiles use a specially developed compound and twin-leg profile connection system with one-way support arm. This provides excellent adhesion to the main profiles. Tested to

BS6375, the gasket system achieves outstanding air tightness and weathering performance, improving energy efficiency further by minimising air leakage.

A sustainable choice

Two versions of **eurologik70** are available. The traditional version continues to be made from 100% virgin PVC-U. The second, more sustainable option, features post-consumer recycled PVC-U in the central core of the profile with 100% virgin PVC-U external faces. This ensures the same aesthetics and technical performance but with more environmentally responsible benefits for today's discerning customers. What's more it carries the same 10-year guarantee as our standard profiles!

eurologik70

70mm window and door system



All together better



eurologik70 profile in White, featuring post-consumer recycled material (shown in green for illustration purposes) and PCE gaskets



eurologik70 bay window featuring internal Georgian bars

eurologik70 product range

eurologik70 is available in the contemporary Chamfered and the traditional fully-sculptured Ovolo styles, for your freedom of choice. A full range of window and door profiles is available for both suites:



Casement windows



Tilt & turn windows



French windows



Residential doors



French doors

Accreditations



Assessment report number 2480
The Eurologik window and door system



BS 7950 (certificate number KM 52187)
Specification for enhanced security performance of windows for domestic applications



BS 6375
Performance of windows and doors classification for weather tightness and guidance on selection and specification

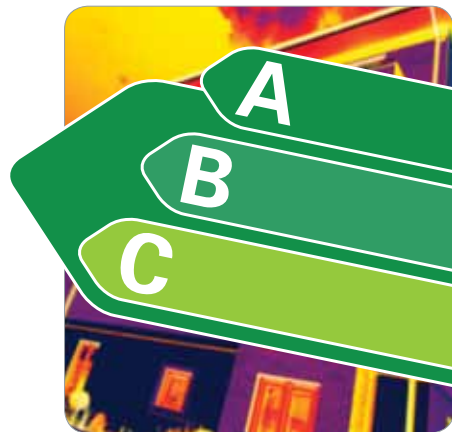
Features and benefits

- ▶ Independently certified by the BBA for peace of mind enabling you to specify with confidence
- ▶ Single reinforcement for main frame and transoms
- ▶ Continuous reinforcement when reverse-butt welding
- ▶ Integral capillary groove on all inward opening frames
- ▶ Easy clean internal rebates, common throughout
- ▶ Comprehensive range of ancillaries
- ▶ Separate chambers for improved drainage, thermal efficiency and strength
- ▶ Fully bevelled for a slim visual profile and clean sight lines
- ▶ System accepts both 28mm and 36mm glazing thicknesses
- ▶ Full depth eurogroove for maximum hardware compatibility
- ▶ Single hinge and espagnolette location is sashes for ease of fabrication
- ▶ The special compound PCE gasket offers market leading adhesion, air-tightness and weathering performance

eurologik70

70mm window and door system

Energy efficiency and thermal performance



Eurocell is constantly innovating to ensure that our PVC-U windows continue to meet the demands of ever-changing environmental and safety requirements – helping you to design the secure, sustainable buildings of tomorrow.

The Eurocell **eurologik70** window and door system can obtain **u-values between 1.6-0.8** and **Window Energy**

Ratings (WERSs) between A-C to best suit your project's needs.

At Eurocell we have BFRC-certified simulators who are fully qualified to calculate WER's and give advice on requirements for compliance. For more information, please contact our technical department.

Reinforcement options



PVC-U Thermal Inserts

PVC-U Thermal Inserts are the cost-effective, thermally efficient, easy-to-handle and sustainable alternative to steel and aluminium profile reinforcements.

Made entirely from recycled PVC-U, these advanced inserts are the sustainable way to create high-performance, energy-efficient windows to meet legislative requirements and market demand.

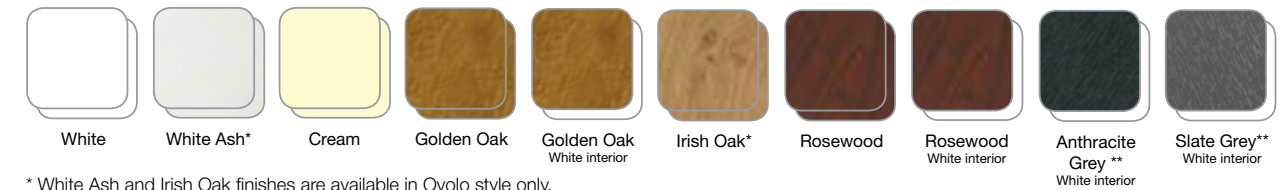
As well as delivering the enhanced energy efficiency and recyclability required to meet Code for Sustainable Homes and BREEAM guidelines, Eurocell PVC-U Thermal Inserts achieve structural strength and rigidity requirements for metal-free window frames. Eurocell PVC-U Thermal Inserts have been tested by the BBA to BS EN6375, achieving impressive results.

Note:

eurologik70 profiles can also be reinforced with steel or aluminium dependant on specifications

Colour options

Window profile standard colour options (also used for French doors) Special colours are also available on extended lead times

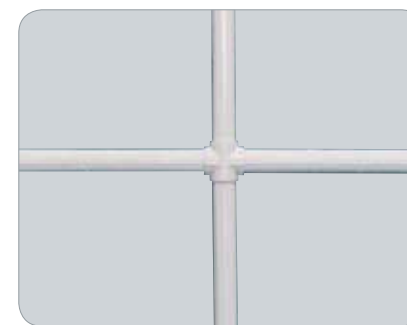


* White Ash and Irish Oak finishes are available in Ovolo style only.
** Only available on selected chamfered profiles.

Residential door profile standard colour options Lead times may vary



Decorative options



Georgian bars (internal and external)

Georgian bars offer classical aesthetics with traditional ovolo detailing.

Dedicated end cap and cruciform mouldings enable you to square cut the bars. The intelligent 'snap-in' design then enables fast, efficient installation on-site.

Colour options:

White, Cream, Golden Oak, Rosewood, White Ash and Irish Oak



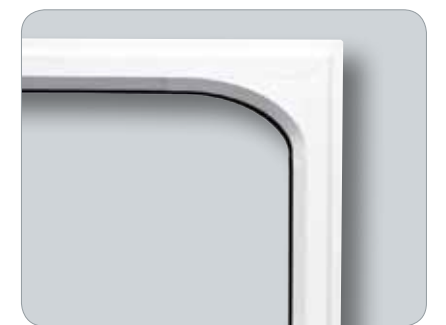
Mock horn sash

Mock horn sash offer a sense of prestige and classical aesthetics to our window system.

Mock sash kits are available – these include mouldings and lengths of pre-prepped profile. Mock sash end caps are also available.

Colour options:

White, Cream, Golden Oak and Rosewood



Arched tops

Arched tops are an ideal way to complement traditional or period properties.

The easy-fit design allows the arch tops to clip in – saving time at installation point.

Colour options:

White, Cream, Golden Oak and Brown

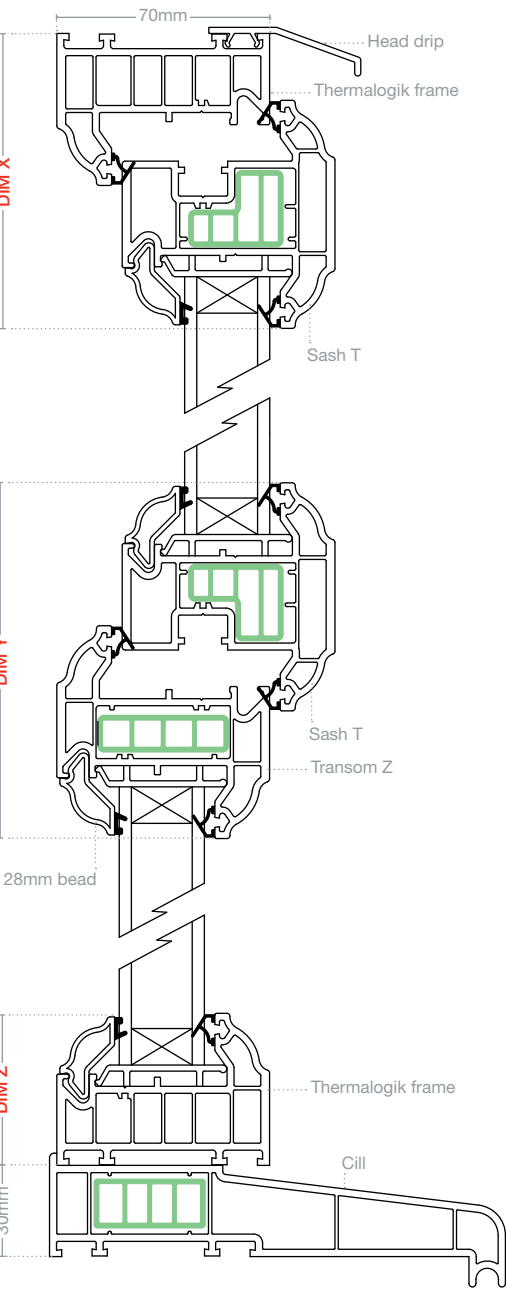
eurologik70 casement windows

Outward opening, inward glazed – vertical section

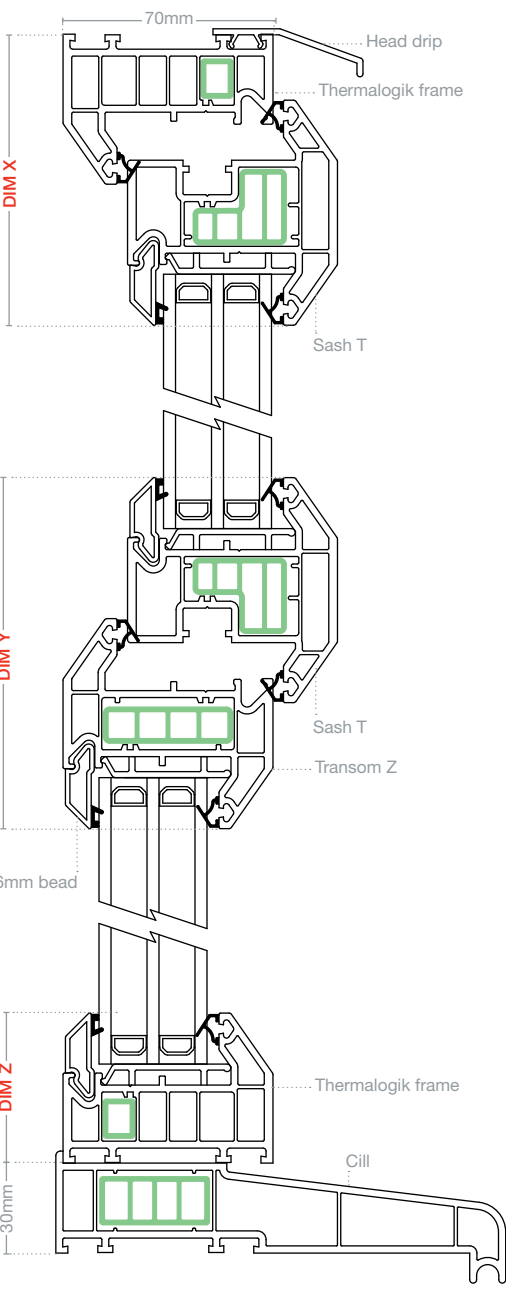


All together better

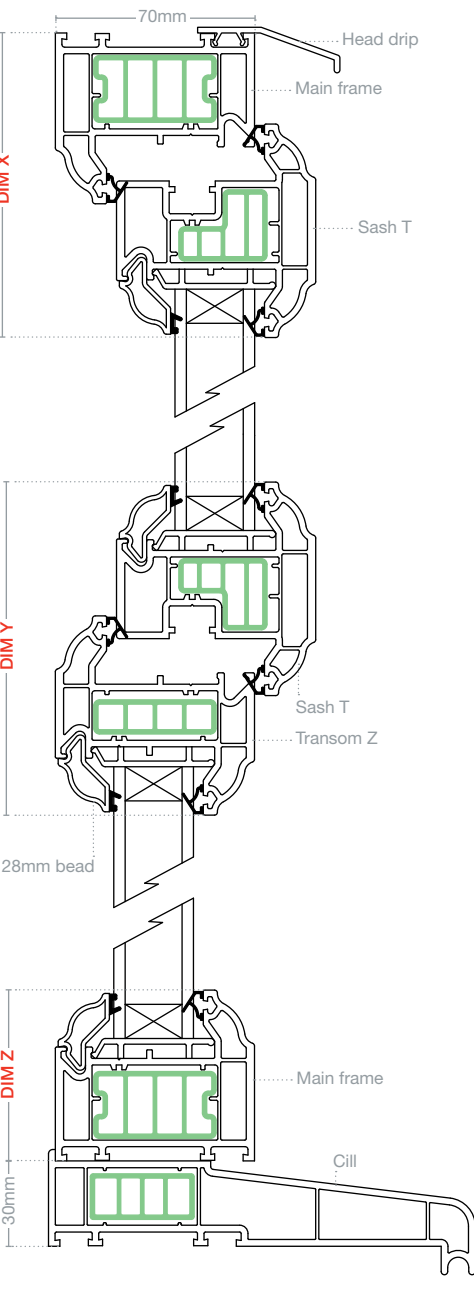
▼ Double glazed
Thermalogik outerframe
PVC-U Thermal Inserts
Ovolo



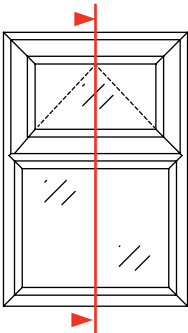
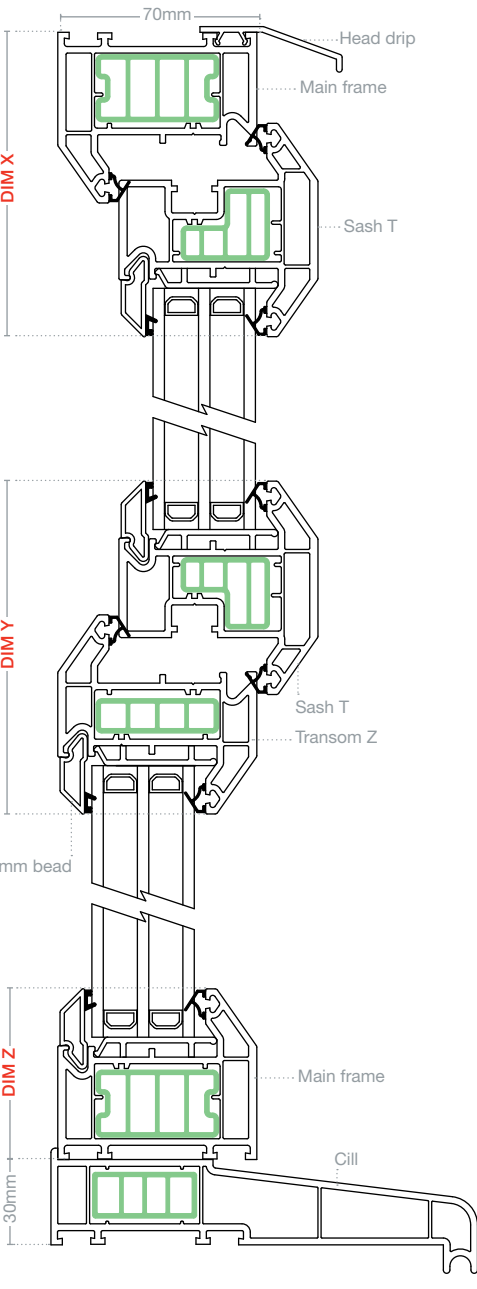
▼ Triple glazed
Thermalogik outerframe
PVC-U Thermal Inserts
Chamfered



▼ Double glazed
Standard outerframe
PVC-U Thermal Inserts
Ovolo



▼ Triple glazed
Standard outerframe
PVC-U Thermal Inserts
Chamfered



Options

Frame	Dim X
Thermalogik frame (EWS 7001 / 7701) with Sash T (EWS 7005 / 7705)	97mm
Main frame (EWS 7021 / 7721) with Sash T (EWS 7005 / 7705)	107mm
Large main frame (EWS 7006 / 7706) with Sash T (EWS 7005 / 7705)	122mm

Frame	Dim Y
Sash T (EWS 7005 / 7705) with transom Z (EWS 7003 / 7703)	117mm
Sash T (EWS 7005 / 7705) with intermediate transom Z (EWS 7023 / 7723)	132mm

Frame	Dim Z
Thermalogik frame (EWS 7001 / 7701)	50mm
Main frame (EWS 7021 / 7721)	60mm
Large main frame (EWS 7006 / 7706)	75mm

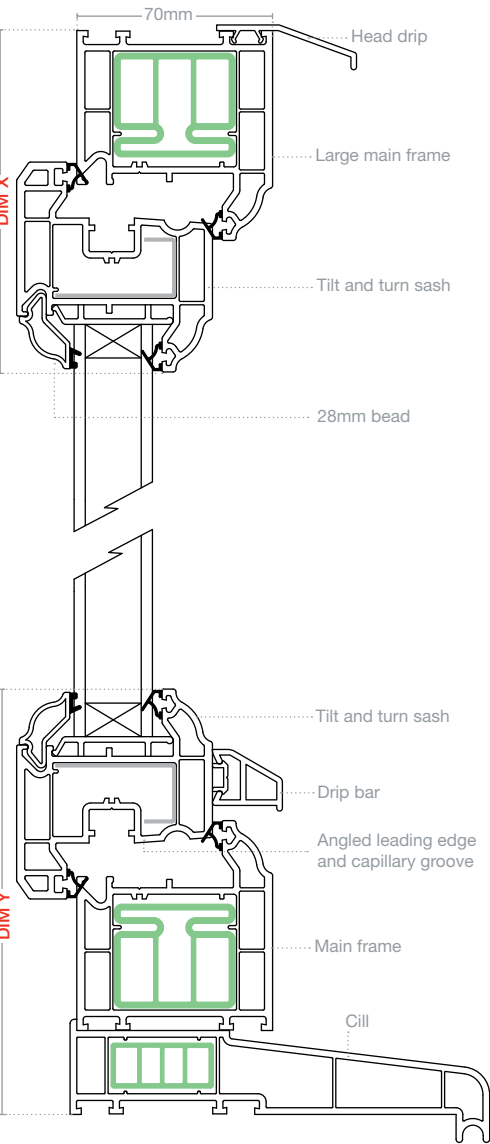
Steel reinforcements also available. Contact the Eurocell technical department for more information

Note: technical drawings are not to scale

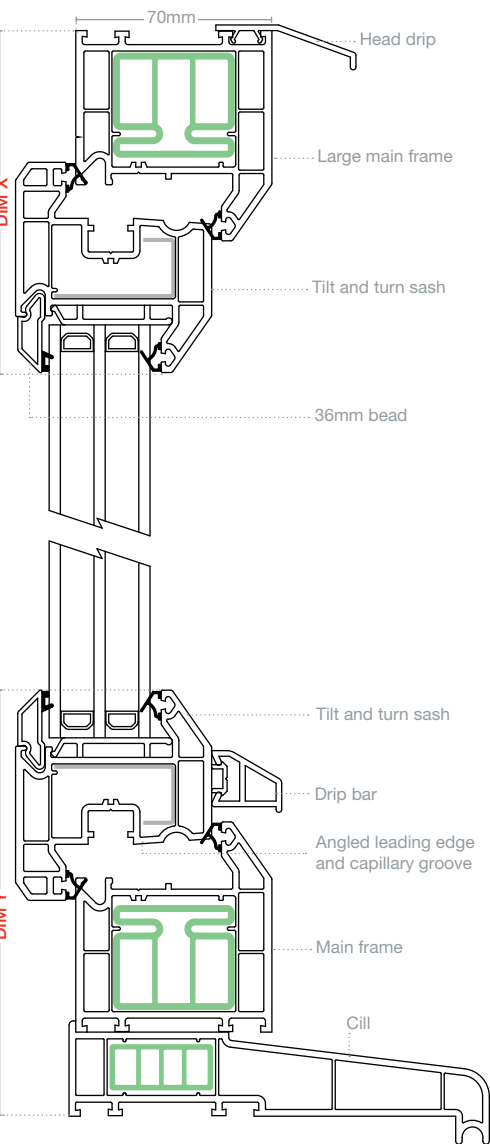
eurologik70 tilt and turn windows

Inward opening, inward glazed – vertical section

Double glazed
PVC-U Thermal Inserts
Ovolo



Triple glazed
PVC-U Thermal Inserts
Chamfered



Options

Frame	Dim X
Small main frame (EWS 7001 / 7701) with tilt and turn sash (EWS 7007 / 7707)	97mm
Main frame (EWS 7021 / 7721) with tilt and turn sash (EWS 7007 / 7707)	107mm
Large main frame (EWS 7006 / 7706) with tilt and turn sash (EWS 7007 / 7707)	122mm

Frame	Dim Y
Small main frame (EWS 7001 / 7701) with tilt and turn sash (EWS 7007 / 7707) with all A type cills	127mm
Main frame (EWS 7021 / 7721) with tilt and turn sash (EWS 7007 / 7707) with all A type cills	137mm
Large main frame (EWS 7006 / 7706) with tilt and turn sash (EWS 7007 / 7707) with all A type cills	152mm

Note: technical drawings are not to scale

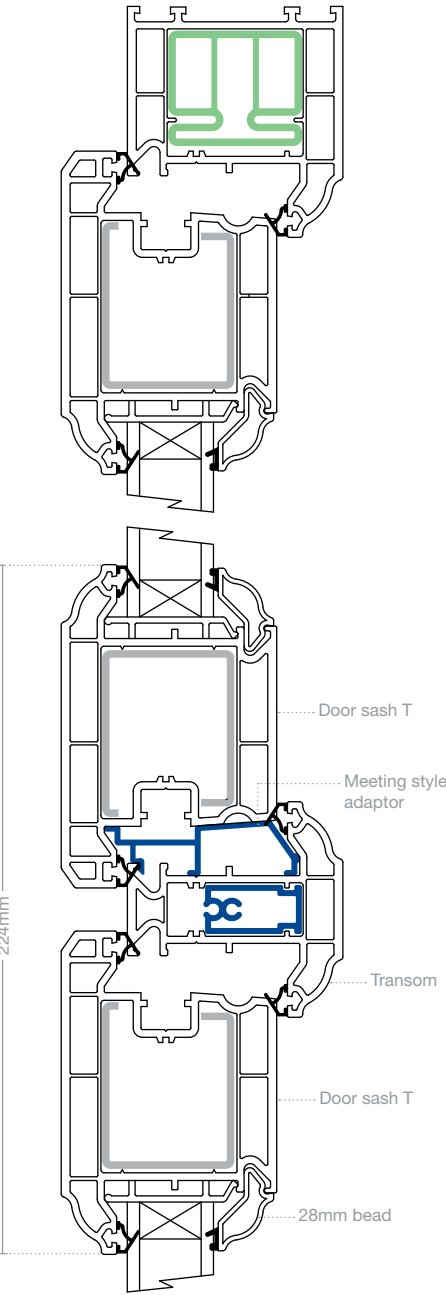
eurologik70 French doors

Outward opening, inward glazed – horizontal section

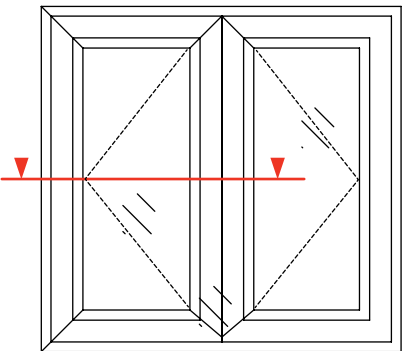
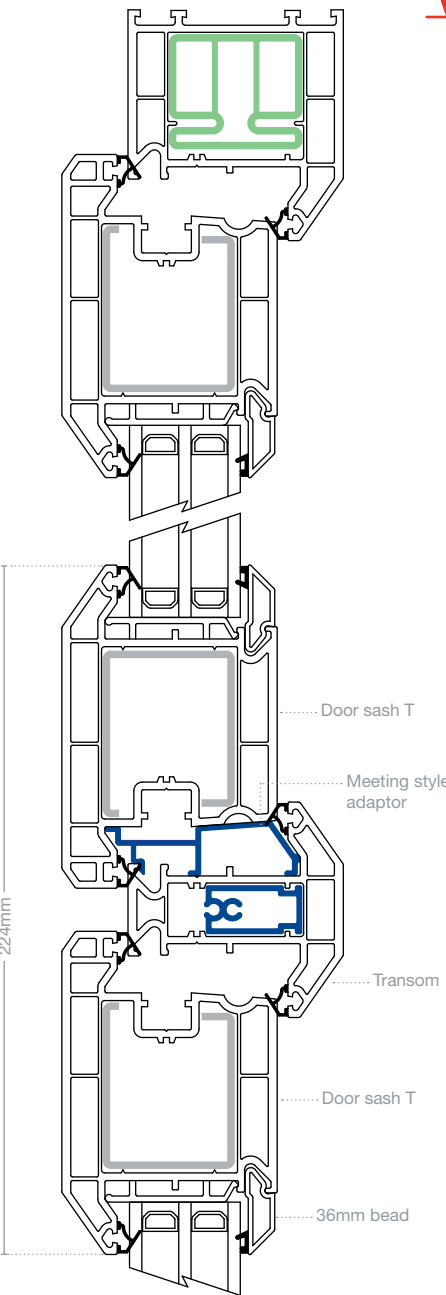


All together better

Double glazed
PVC-U Thermal Inserts
Ovolo



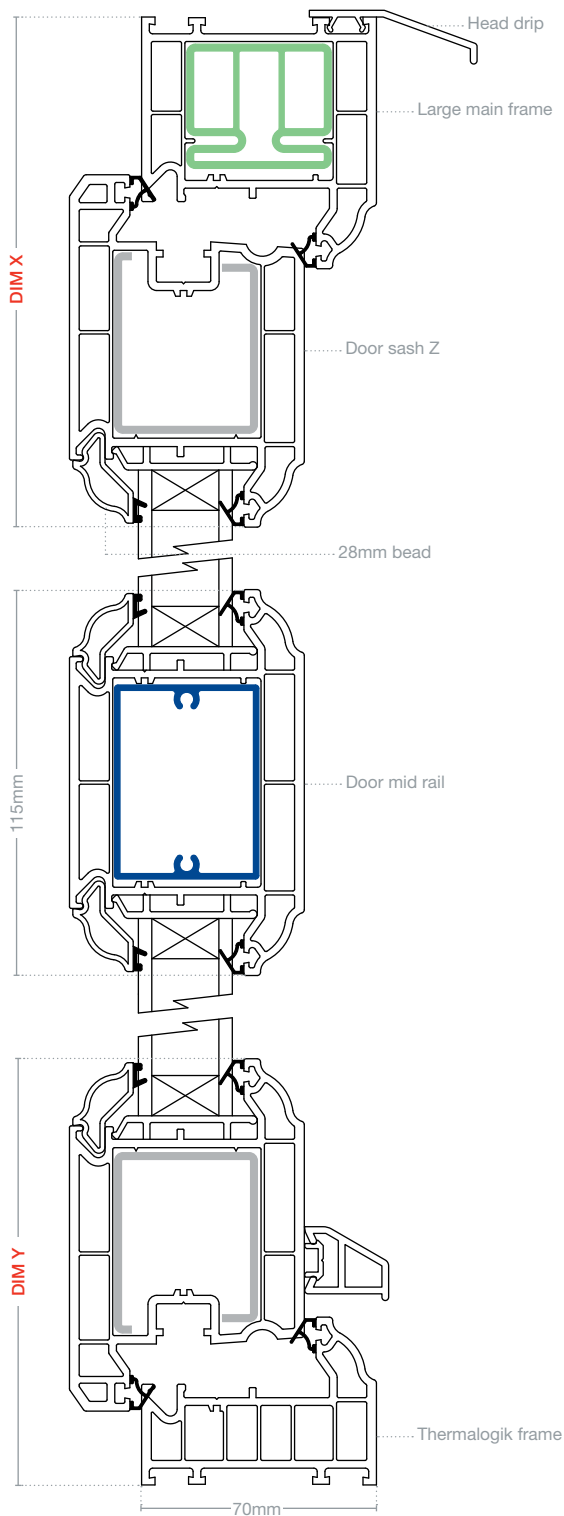
Triple glazed
PVC-U Thermal Inserts
Chamfered



eurologik70 French and residential doors

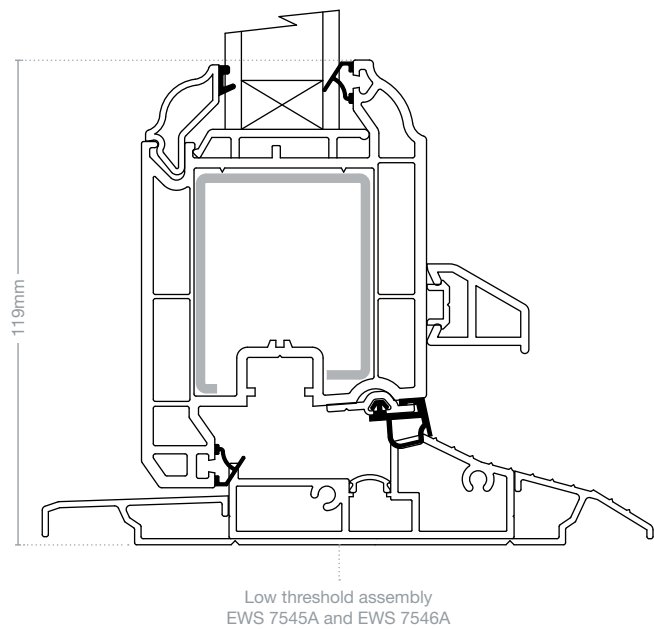
Inward glazed – vertical section

▼ Double glazed
Ovolo
Inward opening



Note: technical drawings are not to scale

▼ Option
Part M low threshold assembly



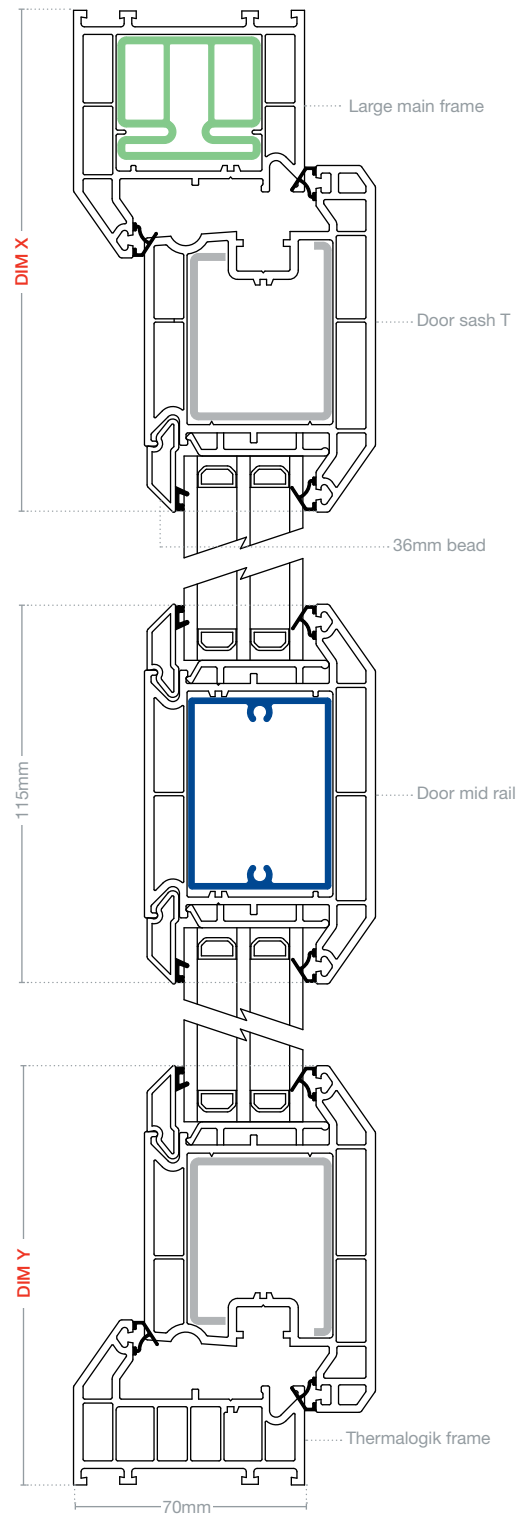
▼ Options

Option shown highlighted in bold

Frame	Dim X
Main frame (EWS 7021 / 7721) with door sash Z (EWS 7018 / 7718)	137mm
Large main frame (EWS 7006 / 7706) with door sash Z (EWS 7018 / 7718)	152mm

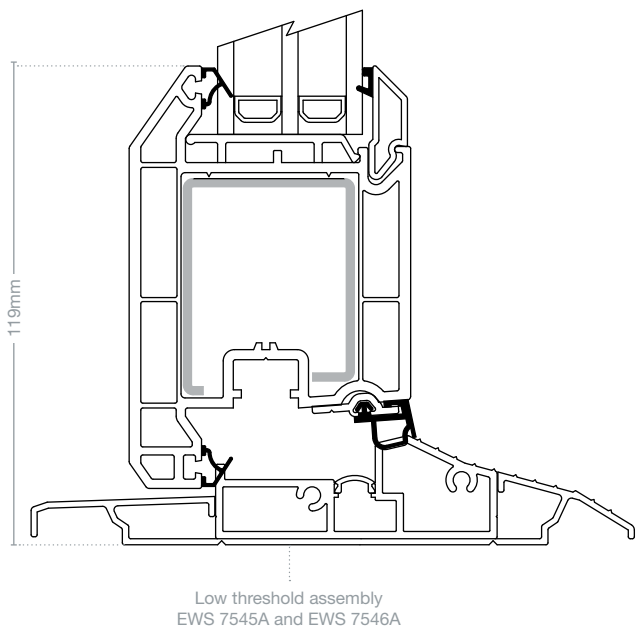
Frame	Dim Y
Thermalogik frame (EWS 7001 / 7701) with door sash Z (EWS 7018 / 7718)	127mm
Main frame (EWS 7021 / 7721) with door sash Z (EWS 7018 / 7718)	137mm
Large main frame (EWS 7006 / 7706) with door sash Z (EWS 7018 / 7718)	152mm

▼ Triple glazed
Chamfered
Outward opening



Note: technical drawings are not to scale

▼ Option
Part M low threshold assembly



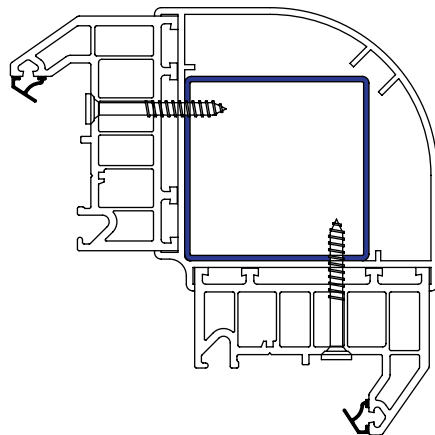
▼ Options

Option shown highlighted in bold

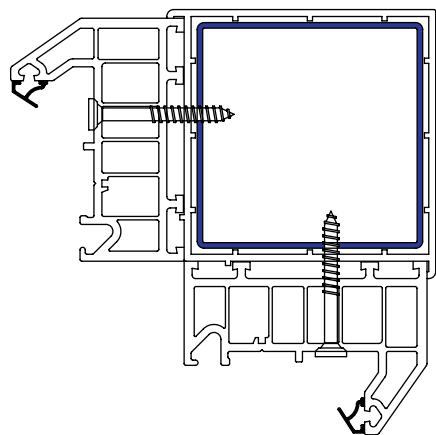
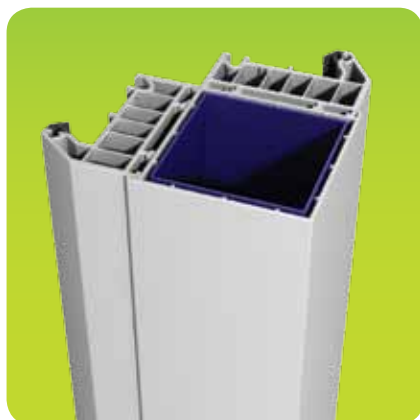
Frame	Dim X
Main frame (EWS 7021 / 7721) with door sash T (EWS 7019 / 7719)	137mm
Large main frame (EWS 7006 / 7706) with door sash T (EWS 7019 / 7719)	152mm

Frame	Dim Y
Thermalogik frame (EWS 7001 / 7701) with door sash T (EWS 7019 / 7719)	127mm
Main frame (EWS 7021 / 7721) with door sash T (EWS 7019 / 7719)	137mm
Large main frame (EWS 7006 / 7706) with door sash T (EWS 7019 / 7719)	152mm

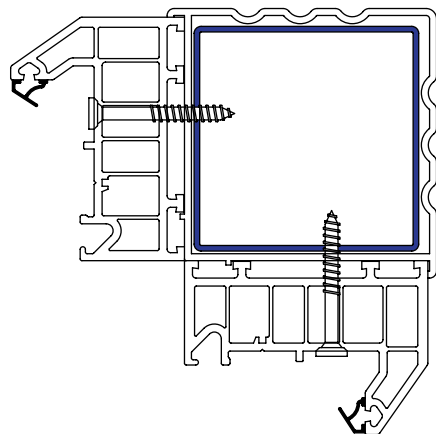
▼ Square bay post assembly
90° angle



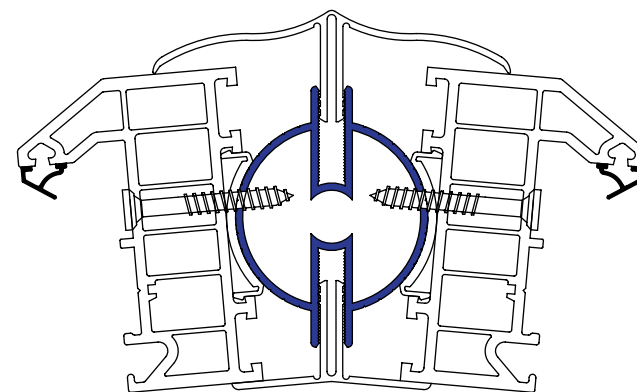
▼ 70mm square bay post assembly
90° angle



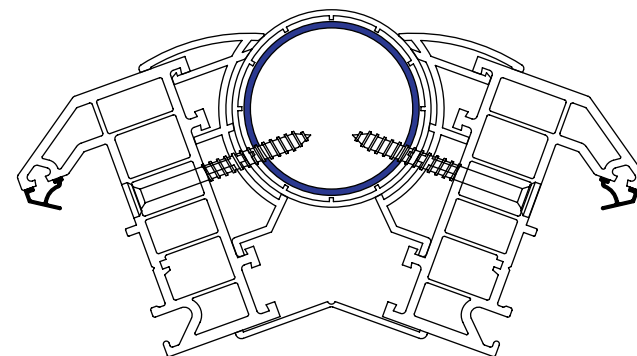
▼ 70mm decorative square bay post assembly
90° angle



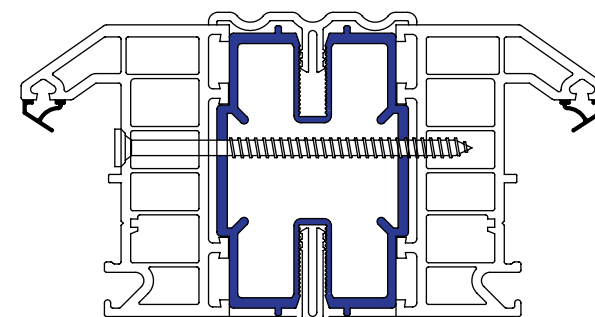
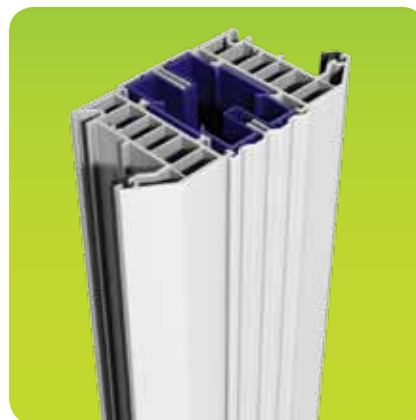
▼ Variable bay post assembly
120-170° angles



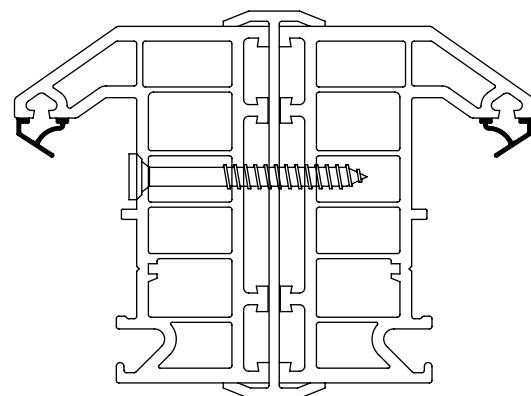
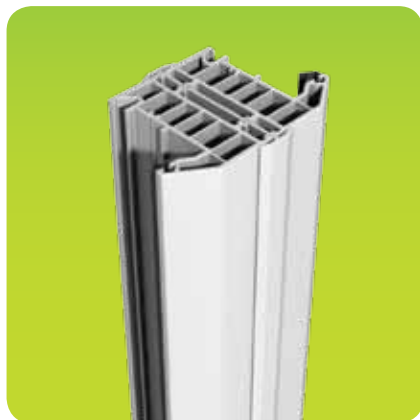
▼ Variable bay post assembly
120-170° angles



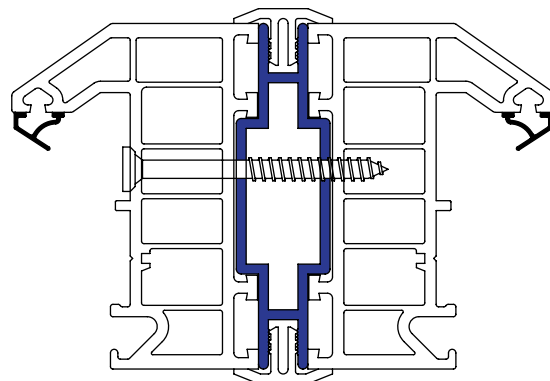
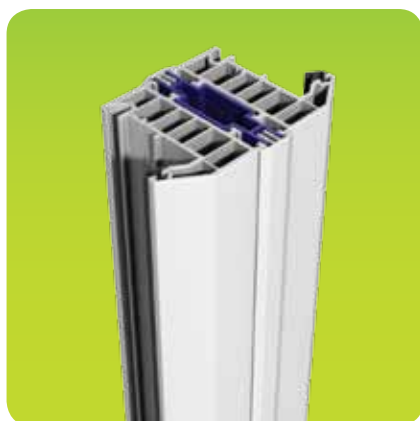
▼ PVC-U butt joint assembly
with sculptured trim



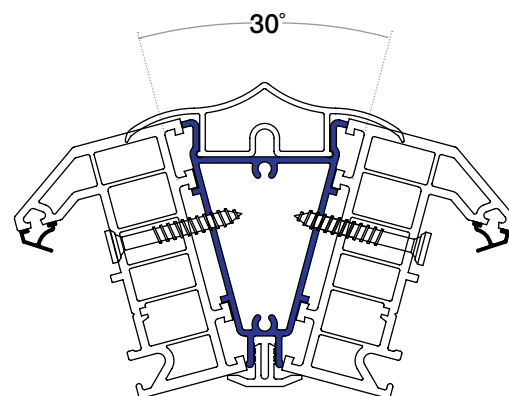
▼ PVC-U butt
joint assembly



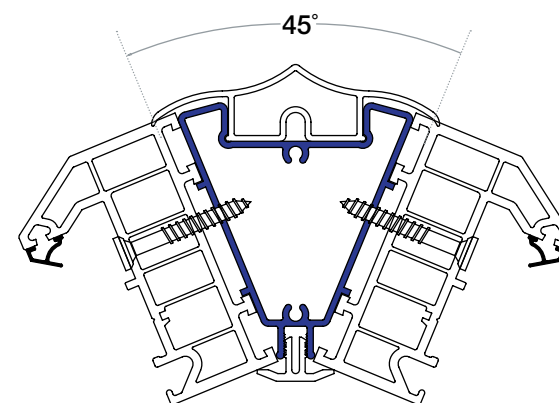
▼ Aluminium butt
joint assembly



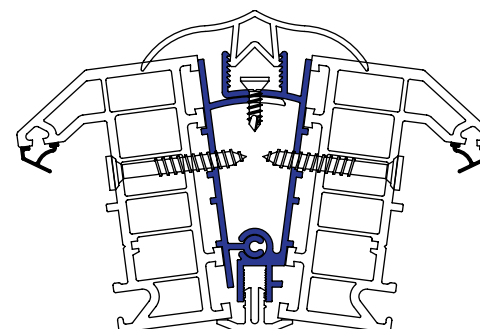
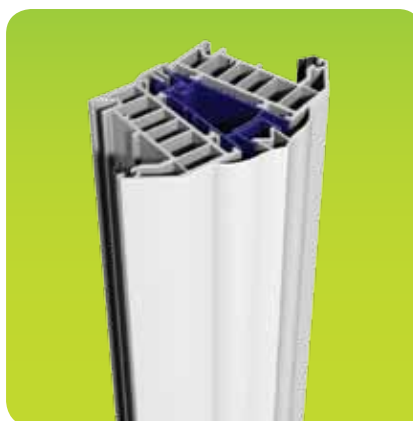
▼ Bay post assembly
150° angle



▼ Bay post assembly
135° angle



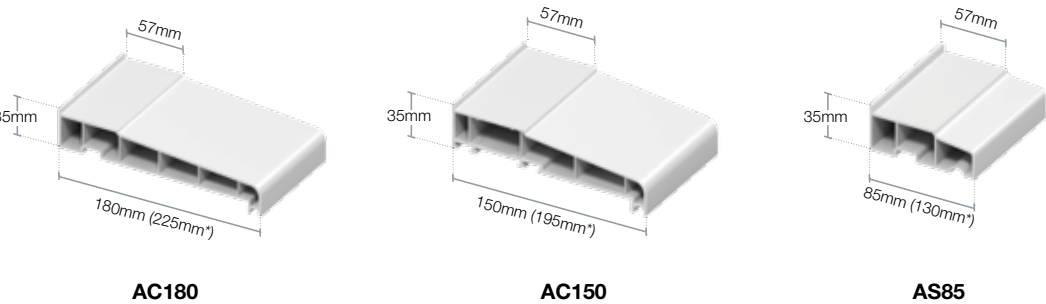
▼ Variable angle bow post assembly
160-170° angle



eurologik70 window cills

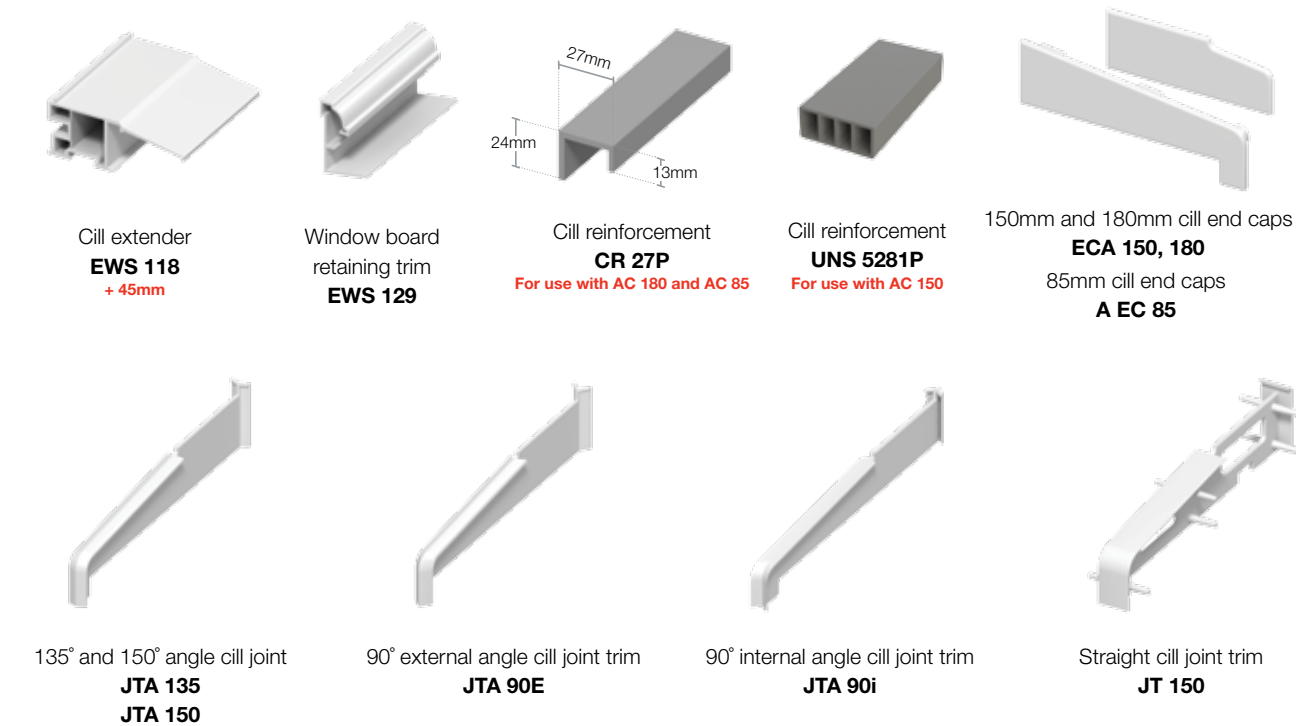
The Eurocell range of external cills and end caps are available in three sizes and are colour matched to a wide range of window systems within the industry. External cills are multi-chambered profiles are designed to take an imposed vertical load of up to four tonnes.

Window cills



* When used with cill extender (EWS 118)

Joints, trims and reinforcements



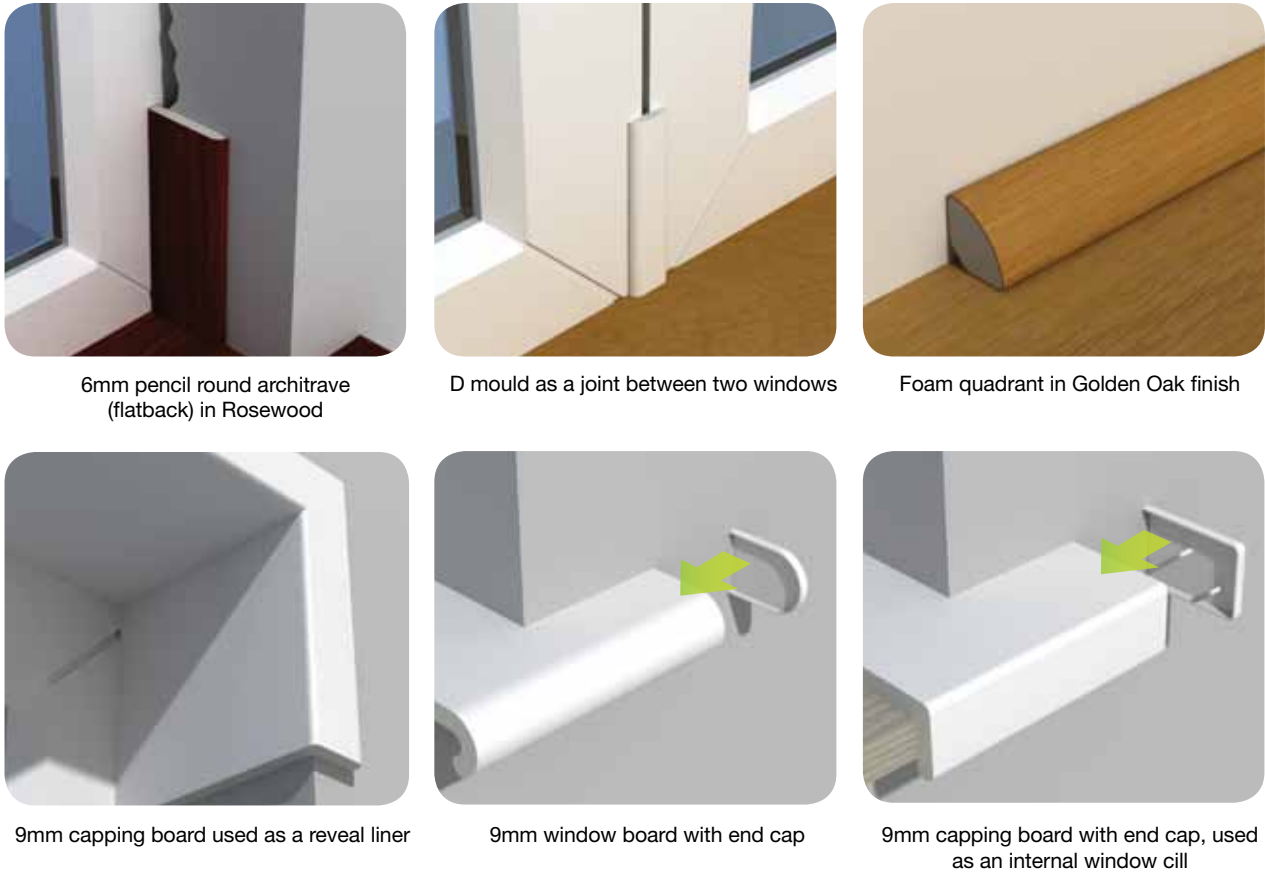
PLUS!

The above window cills, trims and reinforcements are fully compatible with Eurocell **unilogik62** system

Window finishing trims



Finishing trim scenarios



Eurocell offers a comprehensive range of window finishing trims in foam and rigid options, providing the complete package for smart window presentation

Architraves

Where plaster damage is minimal, the foam architraves are available in either 6mm or 9mm thickness. These trims can be fixed with adhesive tapes or silicone, with the latter needing support until it has cured.

Window finishing trims

Similar to the architraves, these products offer an alternative finishing option around the windows.

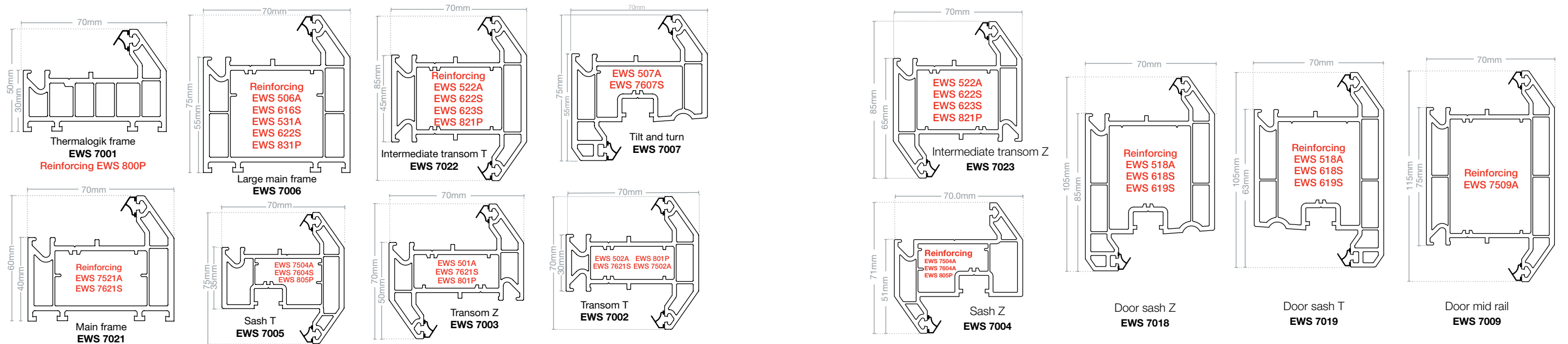
Window boards

Available in a 9mm thickness, a capping or window board provides a square or half round finish. These products can be secured to existing window boards by using an adhesive.

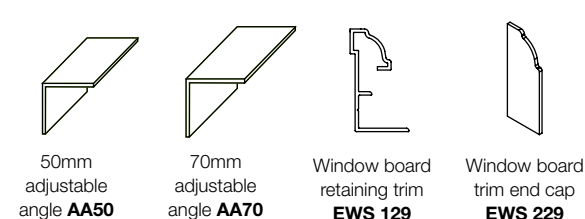
PLUS!

Window finishing trims are available from Eurocell Building Plastics branches nationwide. To find your nearest branch, visit eurocell.co.uk/branchfinder

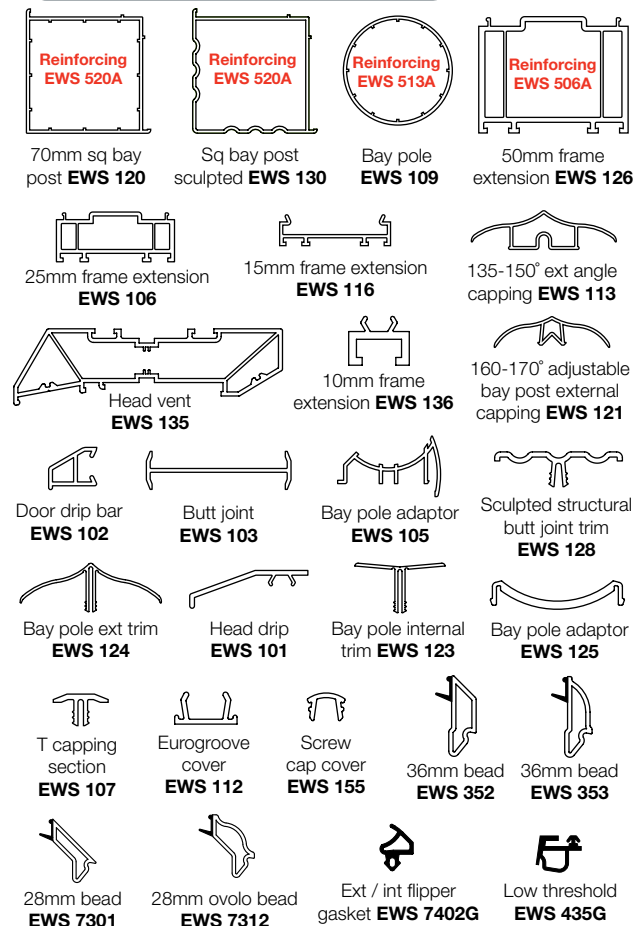
Main profiles – chamfered



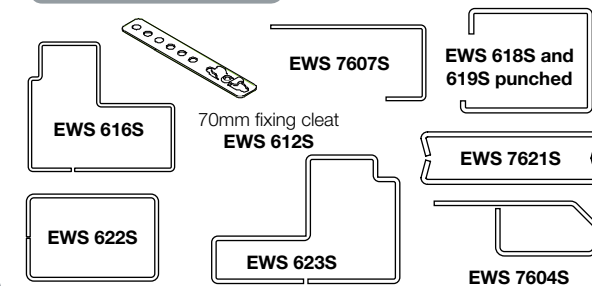
Angles and window trims



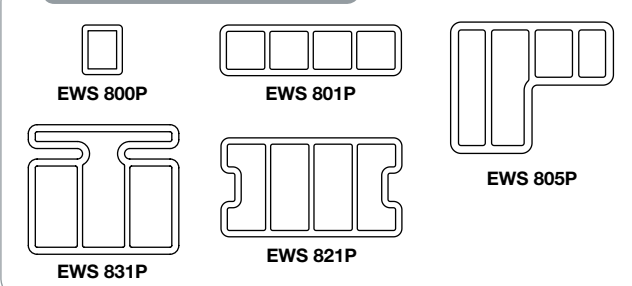
Ancillaries, beads and gaskets



Steel components



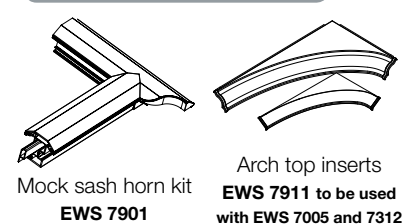
PVC-U Thermal Inserts



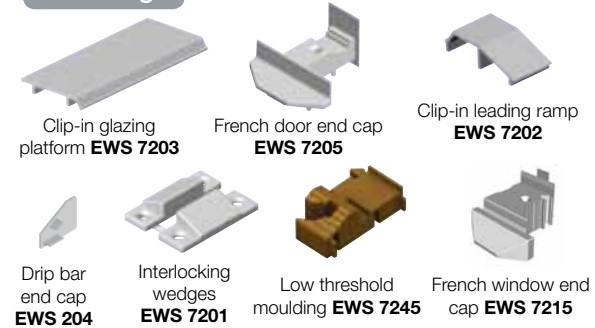
PLUS!

For cills, joints and trims, see page 30

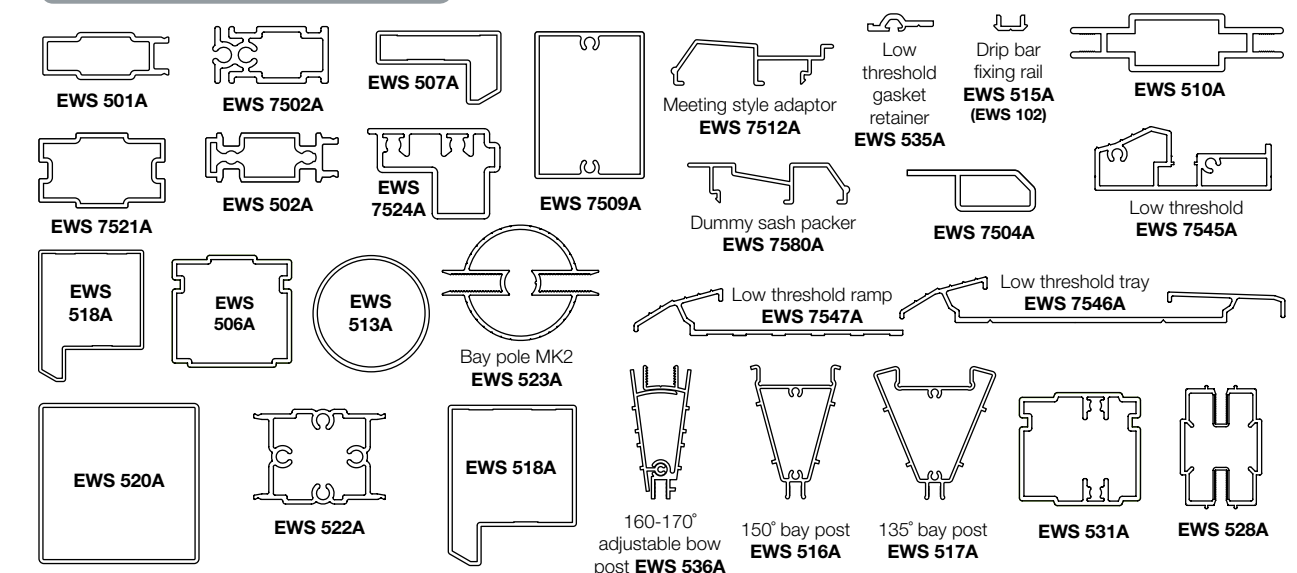
Decorative features



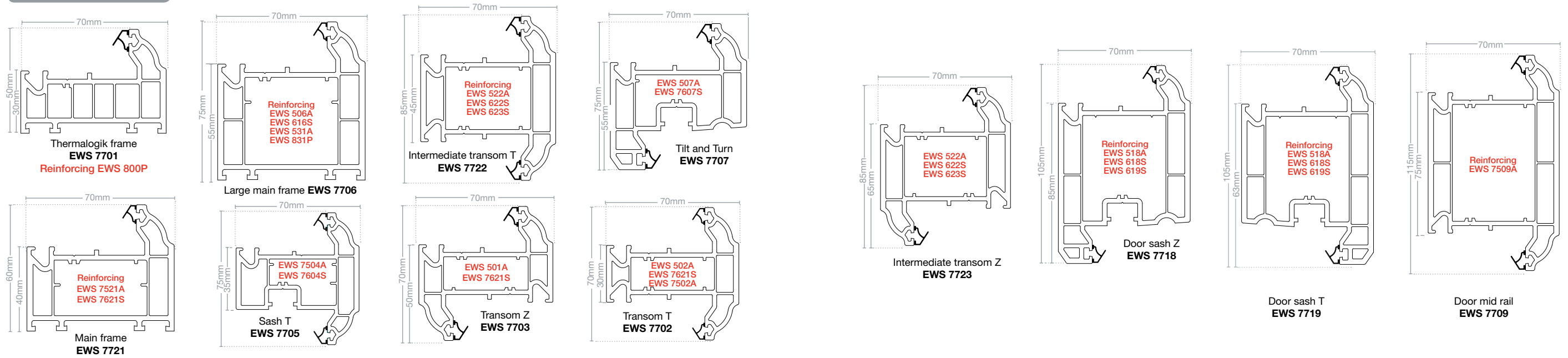
Mouldings



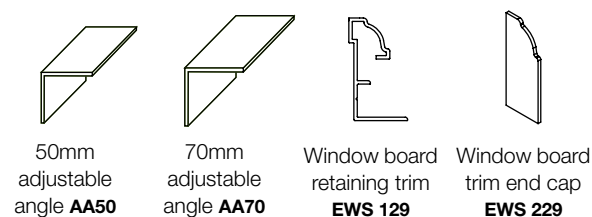
Aluminium components



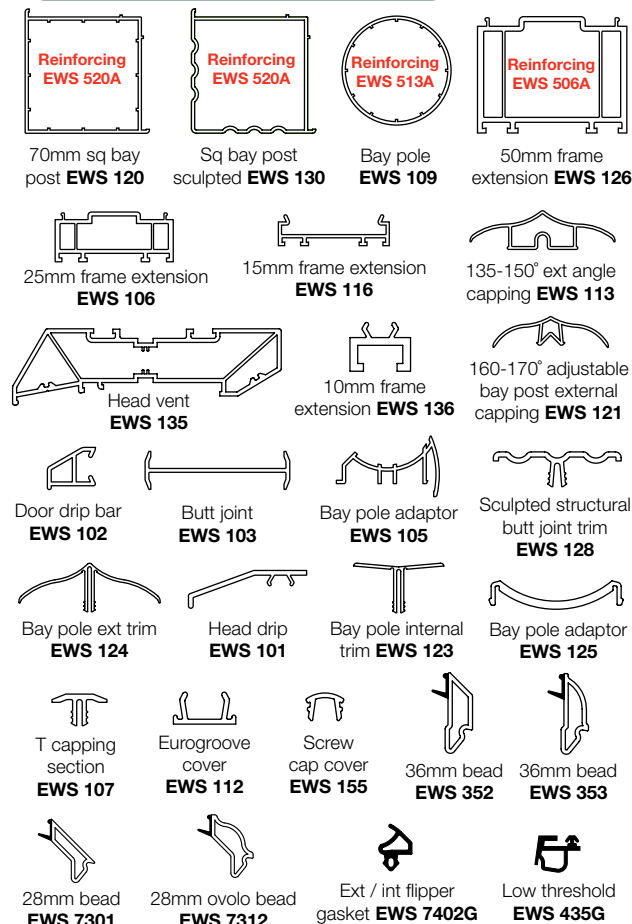
Main profiles – ovolo



Angles and window trims

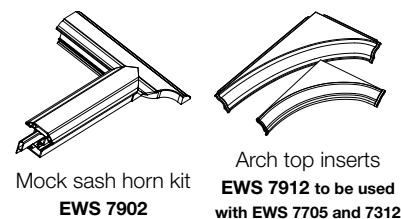


Ancillaries, beads and gaskets

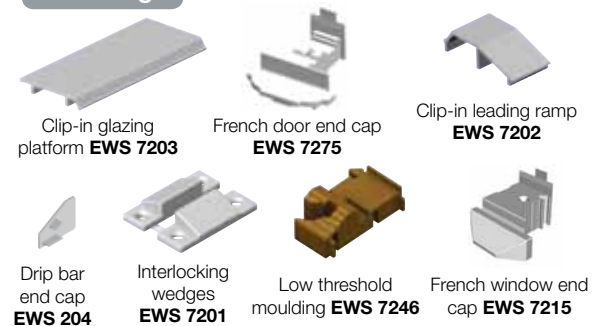


PLUS!
For cills, joints and trims, see page 30

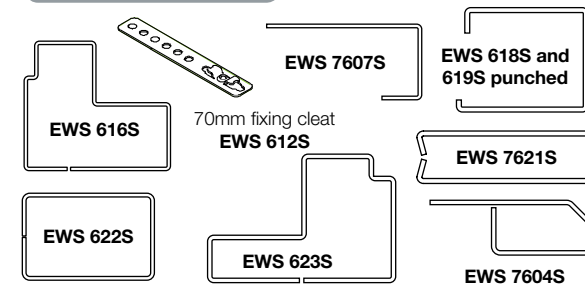
Decorative features



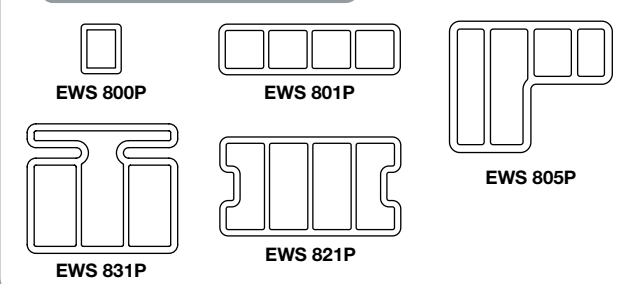
Mouldings



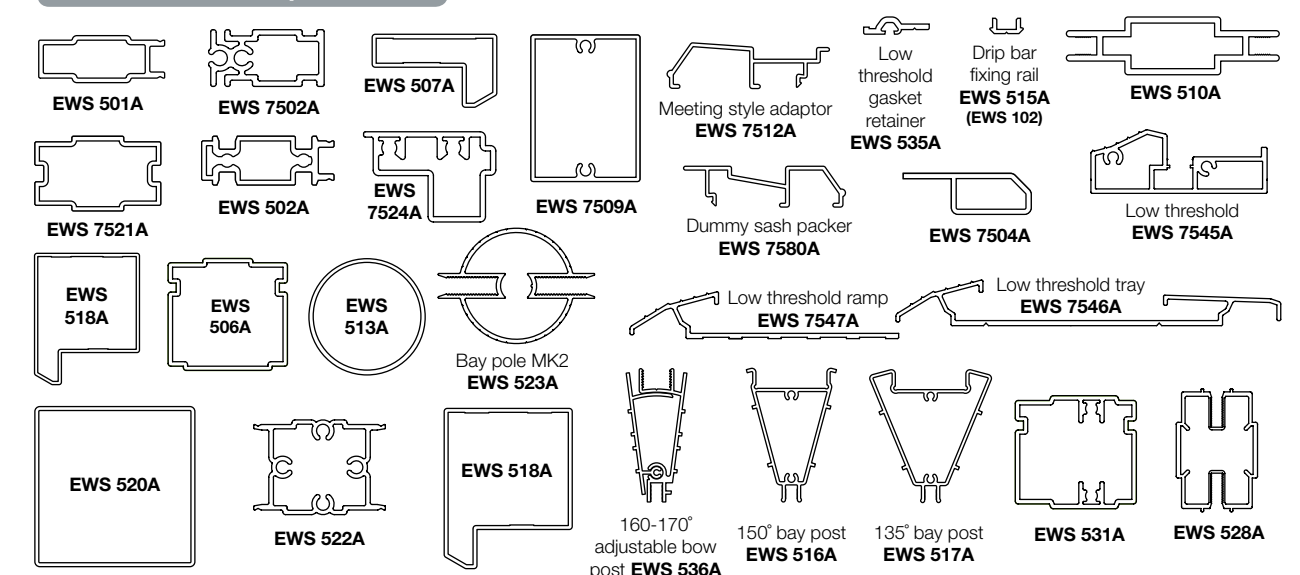
Steel components



PVC-U Thermal Inserts



Aluminium components



charisma

Vertical sliding sash windows

eurocell
All together better



Overview

The ultimate combination of classic design and 21st century engineering

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.

A-rated energy efficiency

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

The three-chambered PVC-U profile offers excellent thermal insulation, while triple brush seals around the openings deliver outstanding draught-proofing. Combined with new PVC-U Thermal Inserts, this offers great news for end-users 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.

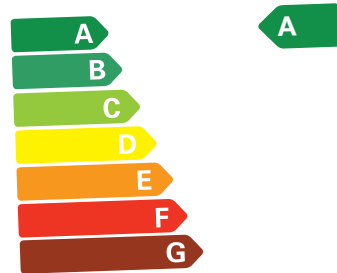


charisma

Vertical sliding sash windows

A-rated

Eurocell 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.



Accreditations

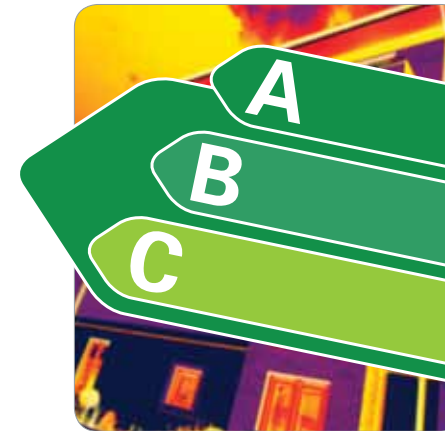


Assessment report number 2663
The Eurocell vertical slider system

Features and benefits

- ▶ Independently certified by the BBA for peace of mind enabling you to specify with confidence
- ▶ 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
- ▶ Anti-jemmy security bar
- ▶ Three-chambered profile system
- ▶ Triple brush seals
- ▶ Overhead vent

Energy efficiency and thermal performance



Eurocell is constantly innovating to ensure that our PVC-U windows continue to meet the demands of ever-changing environmental and safety requirements – helping you to design the secure, sustainable buildings of tomorrow.

The Eurocell **charisma** vertical sliding window system can achieve **u-values from 1.6-1.3** and **Window Energy**

Ratings (WERSs) between A-C to best suit your project's needs.

At Eurocell we have BFR-Certified simulators who are fully qualified to calculate WER's and give advice on requirements for compliance. For more information, please contact our technical department.

Reinforcement options



PVC-U Thermal Inserts

PVC-U Thermal Inserts are the cost-effective, thermally efficient, easy-to-handle and sustainable alternative to steel and aluminium profile reinforcements.

Made entirely from recycled PVC-U, these advanced inserts are the sustainable way to create high-performance, energy-efficient windows to meet legislative requirements and market demand.

As well as delivering the enhanced energy efficiency and recyclability required to meet Code for Sustainable Homes and BREEAM guidelines, Eurocell PVC-U Thermal Inserts achieve structural strength and rigidity for metal-free window frames. Eurocell PVC-U Thermal Inserts have been tested to BS 6375, achieving impressive results.

Note:
charisma profiles can also be reinforced with steel or aluminium.

Colour options

Window profile colour options



* Not available for Charisma Classic.

Other colours are available to special order on extended lead times

Decorative options



Slot-in end caps



Cruciform moulding



Ovolo sculpted
cill adaptor



Sash lock



NEW! charisma classic unique-design decorative horns



NEW! Deep bottom rail for charisma classic

Key features



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.



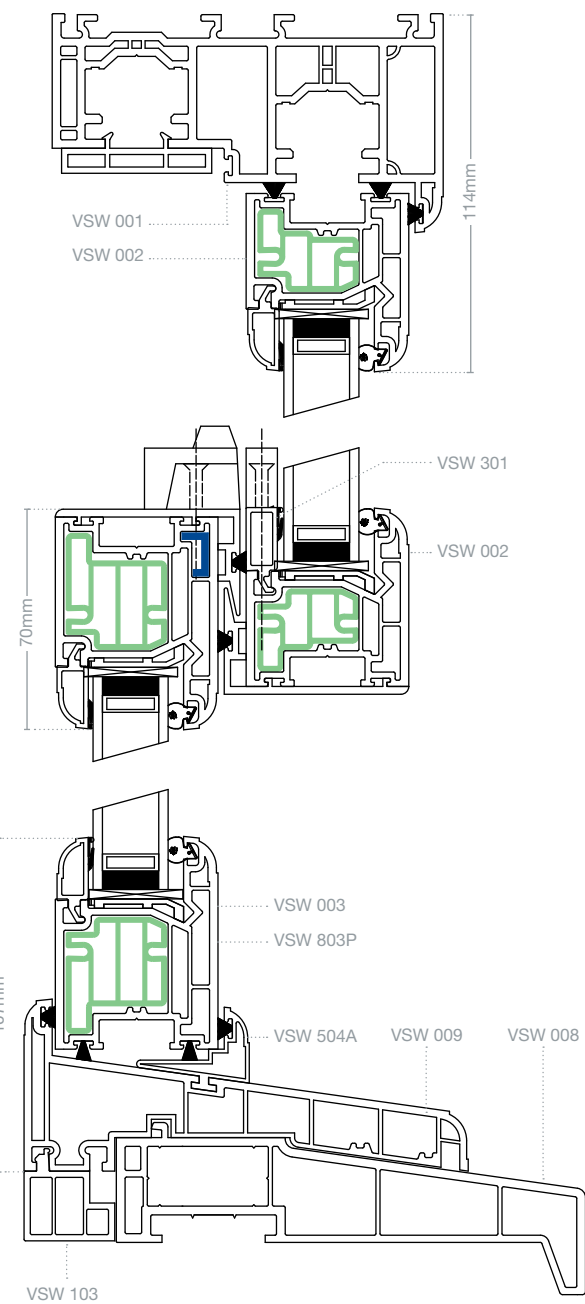
Safe and secure

Security is a major concern for all homeowners, therefore **charisma** has been specially designed to keep intruders at bay – featuring 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).

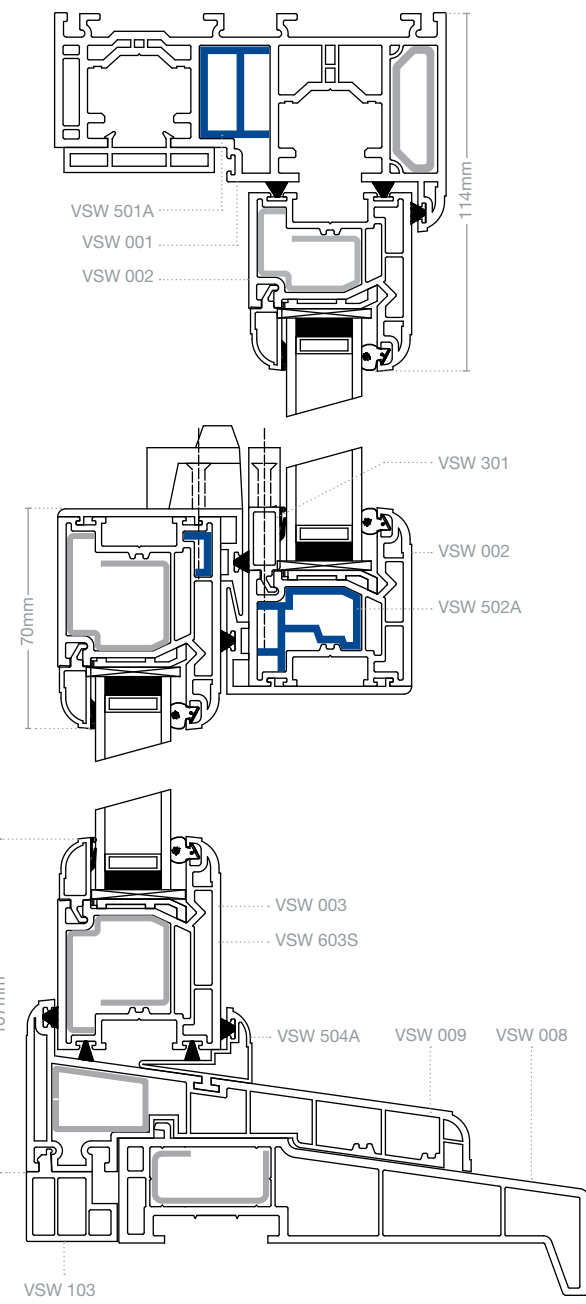
Charisma

Inward glazed – vertical section

Double glazed
PVC-U Thermal Inserts



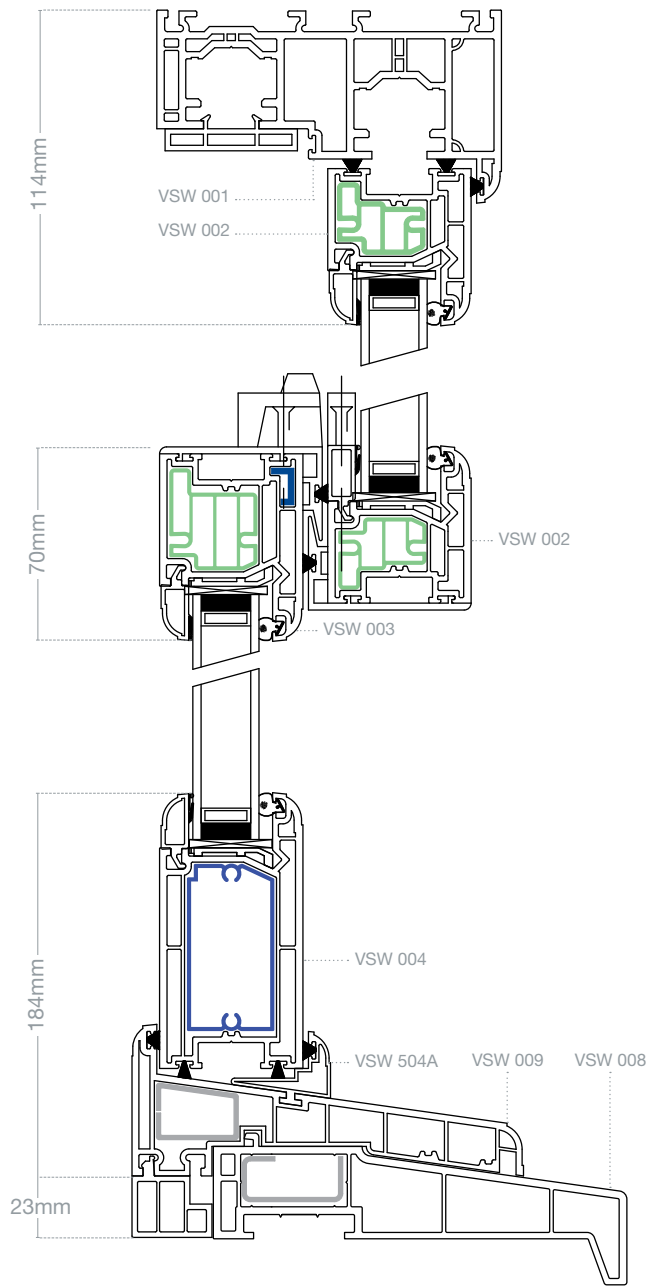
Double glazed
Steel / aluminium



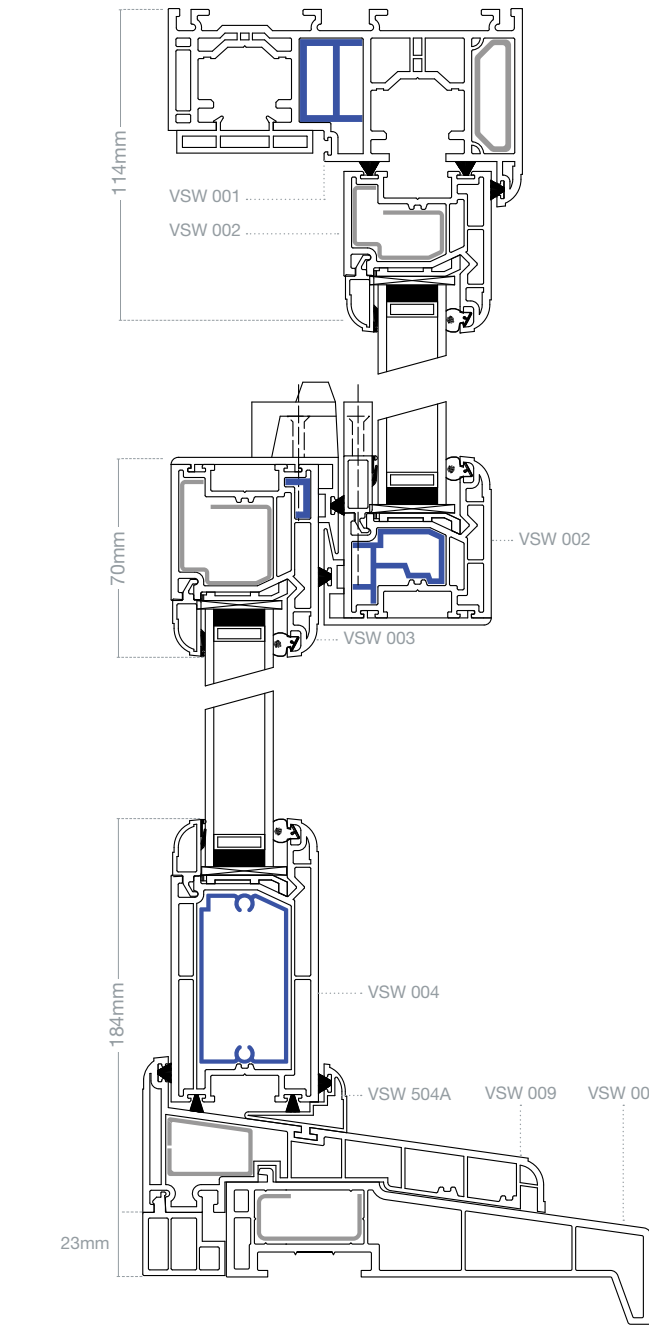
Charisma Classic

Inward glazed – vertical section

Double glazed
PVC-U Thermal Inserts



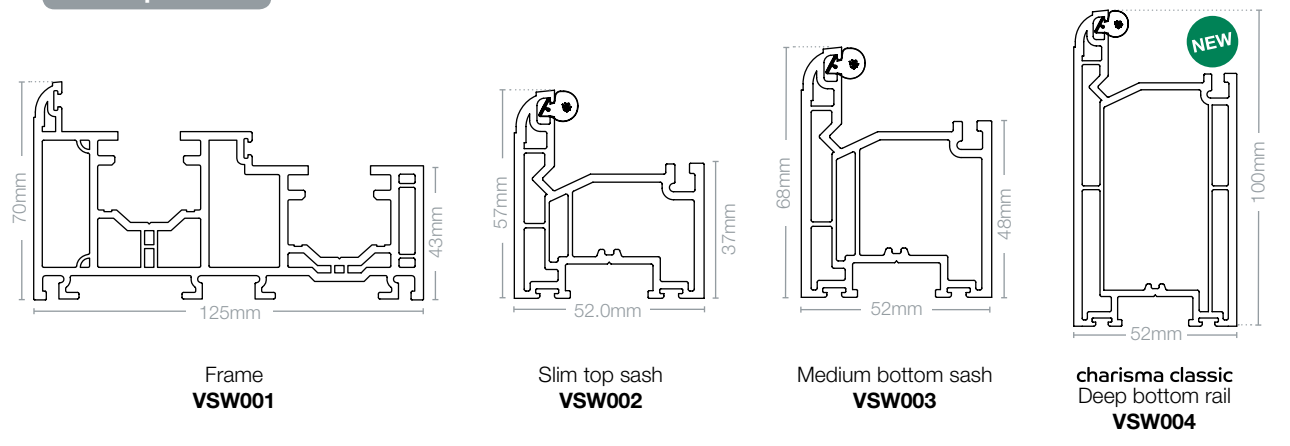
Double glazed
Steel / aluminium



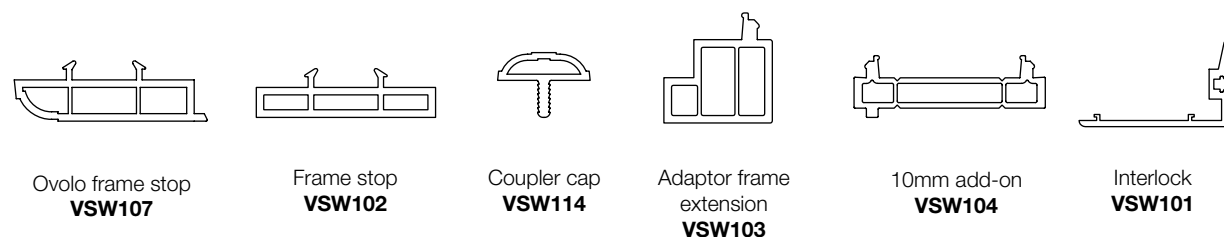
All together better

Note: technical drawings are not to scale

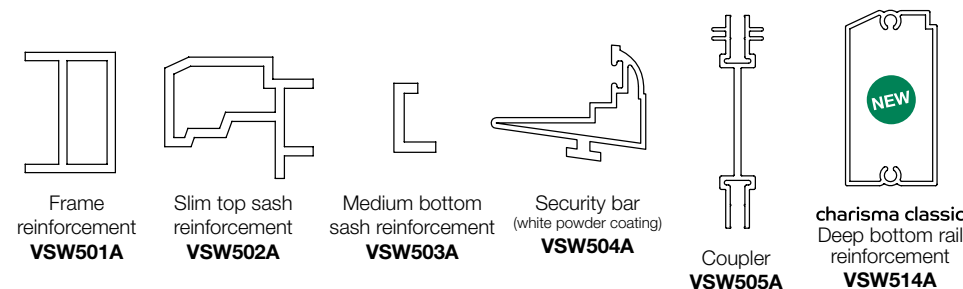
Main profiles



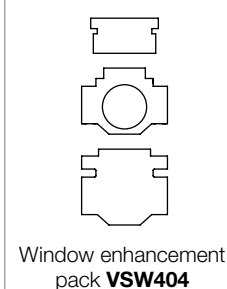
Ancillaries



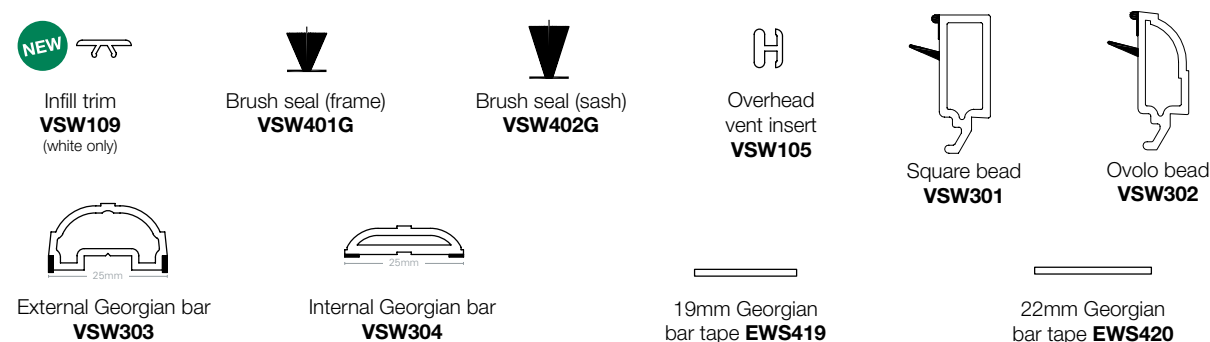
Aluminium components



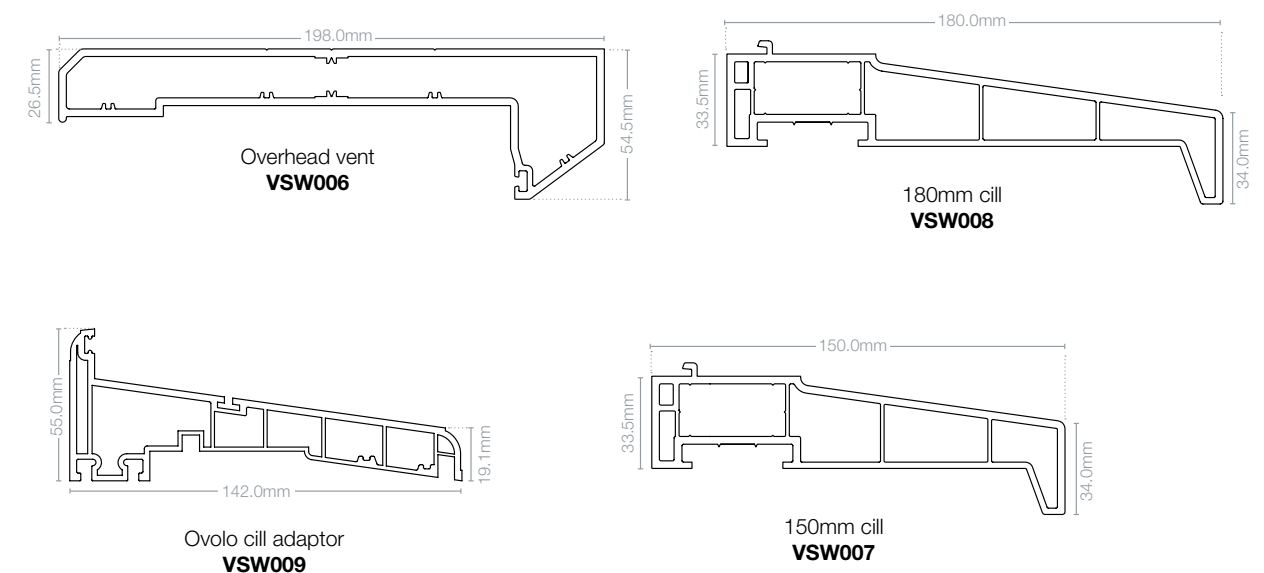
Misc



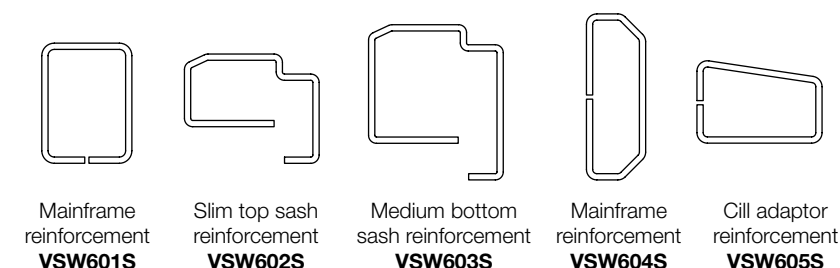
Beads and brush seal



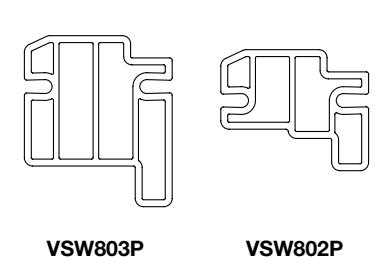
Cills



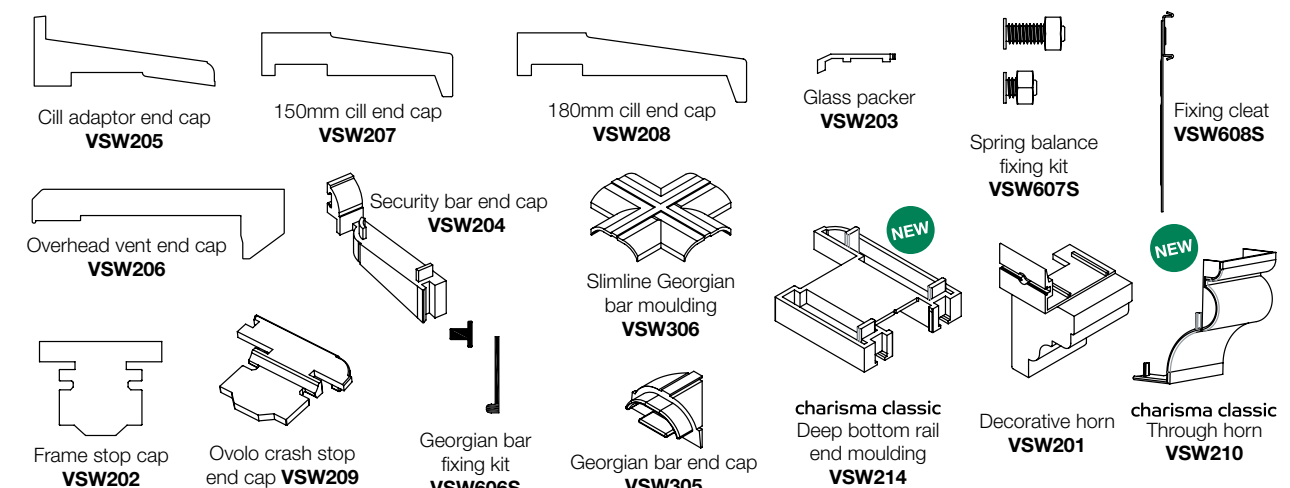
Steel components



PVC-U Thermal Inserts



Accessories



Reversible windows



Overview

Discover high-security, affordable windows with a unique easy-clean design

Easy-clean tilting window systems

Our reversible window design allows the sash to slide and tilt through 180° to facilitate safe and easy cleaning from within the home. Crucially, unlike similar pivot or tilt-and-turn windows, the sash reverses completely outside the building line, so there is no disruption to curtains, blinds or ornaments on the window cill.

Rise to the challenge of multi-storey window installation

Providing cost-effective, secure and low-maintenance windows for multi-storey buildings is a challenge for all specifiers and fabricators working on public-sector housing developments, as well as private-sector residential and commercial projects. Windows located above ground-floor level need to be easy to clean from within the building, as well as safe for children and secure against break-ins. The reversible window system from Eurocell fulfils all of these criteria.

High-security design for complete peace of mind

The robust design offers excellent protection against break-ins. Internally glazed units mean that the glass cannot be removed from outside to gain entry. Integral night ventilators also allow occupants to keep the interior fresh and comfortable at all times, while minimising the risk of break-ins through windows left ajar overnight.

Maximum ventilation and child safety

As well as allowing both sides of the window to be cleaned from inside the building, the 180° reverse action offers maximum ventilation. For homes with young children, the window features child-safety catches which restrict the aperture so that children cannot fall through, while still allowing a high level of ventilation.

Quality engineered for durability - in the most exposed locations

Manufactured to the highest standards, the window system's quality-engineered slider tracks, hinges and locking

mechanisms deliver smooth operation for the life of the window. Our reversible windows have been designed for durability, long-life performance and are severe-weather rated - capable of withstanding harsh weather conditions in exposed high-rise locations.

Enhanced thermal efficiency and aesthetics

With its fully bevelled frame and sash, the reversible window system offers enhanced sight lines and admits maximum levels of natural light into the building. The profile has a multi-chamber cross section for enhanced thermal efficiency – minimising heat loss through the window frame.

Choose a style to suit your building

Eurocell reversible windows are available in a wide range of combinations and colour options to suit any building. The unique transom/mullion section allows reversible sashes or reversible and fixed panes to be manufactured in the same frame. Other combinations, including 90° bay windows, variable-angled bays, and coupled frames are also available.

Reversible windows



Features and benefits

- ▶ Fully reversible sash, enabling the outer window pane to be cleaned safely from inside the building
- ▶ Child safety catches to restrict the aperture while still allowing excellent ventilation
- ▶ Multi-chambered profile design for enhanced thermal efficiency and improved energy ratings
- ▶ Tilt and rotate action which means the sash never protrudes inside the building – keeping cills free for year-round use
- ▶ Fully bevelled frames and sashes for an attractive finish
- ▶ Internal glazing, avoiding the need for external access if the glass needs to be replaced

Energy efficiency and thermal performance

Eurocell is constantly innovating to ensure that our PVC-U windows continue to meet the demands of ever-changing environmental and safety requirements – helping you to design the secure, sustainable buildings of tomorrow.

The Eurocell reversible window system can achieve **u-values between 1.6-1.2** and **Window Energy Ratings (WERSs) between B-C** to best suit your project's needs.

At Eurocell we have BFRC-certified simulators who are fully qualified to calculate WER's and give advice on requirements for compliance. For more information, please contact our technical department.

Colour options

Window profile colour options



White



Golden Oak



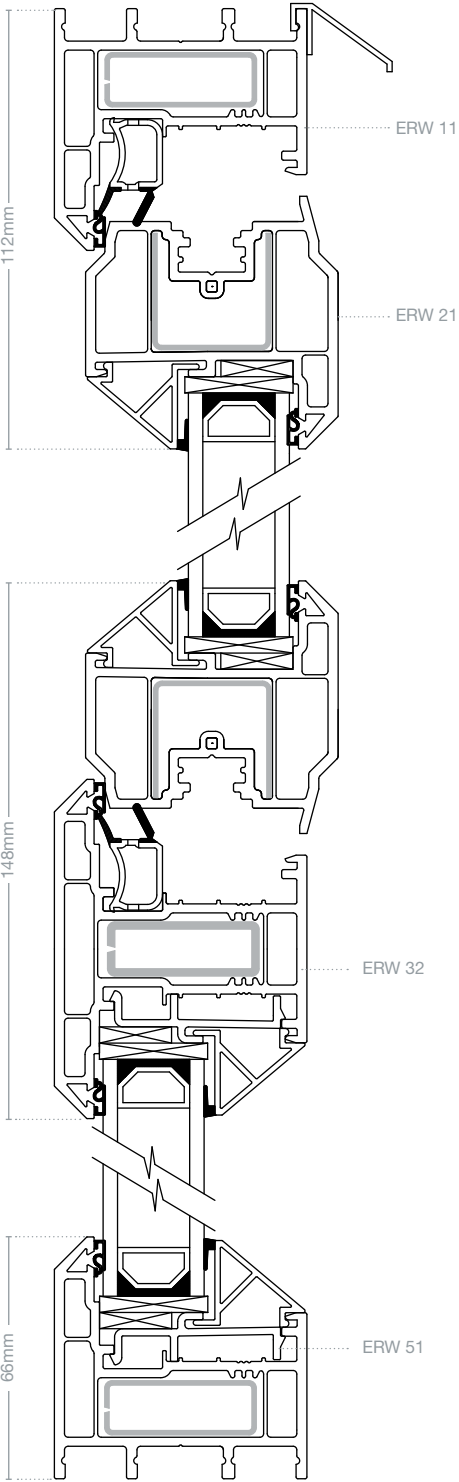
Rosewood

Other colours are available to special order on extended lead times

Reversible windows

Inward glazed – vertical section

▼ Double glazed
Steel reinforcement



Note: technical drawings are not to scale

▼ 180° reversing mechanism

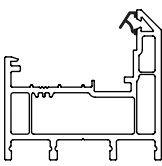


Reversible window product chart

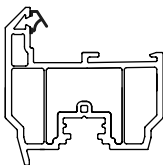


All together better

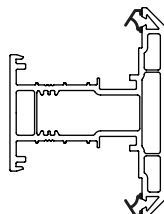
Main profiles



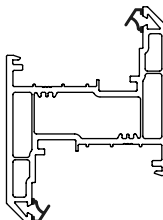
Outer frame
ERW11



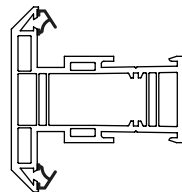
Vent
ERW21



Transom 'T'
ERW31



Transom 'Z'
ERW32



Vent transom
ERW33

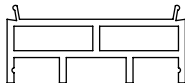
Ancillaries



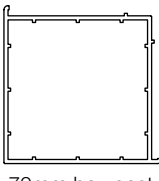
External bay capping
EWS124



Internal bay capping
EWS123



25mm extension
ERW56



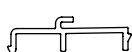
70mm bay post
EWS120



3mm connector
EWS103



Odd leg adaptor
ERW57



Fixed light packer
ERW51



Head drip
ERW52

Beads and seals



28mm co-ex bead
ERW41

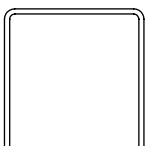


Weather bar
ERW512

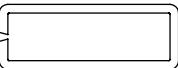


28mm co-ex
scotia bead
ERW44

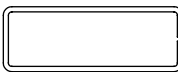
Steel components



Steel reinforcing
for vent
ERW72

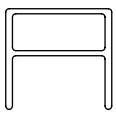


Steel reinforcing
for T & Z
ERW73

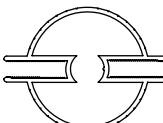


Steel reinforcing
for outer frame
ERW71

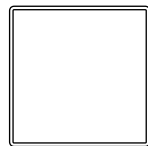
Aluminium components



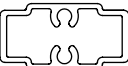
Aluminium
reinforcing for vent
ERW82



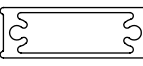
Bay pole reinforcing
EWS523A



70mm bay post reinforcing
EWS520A

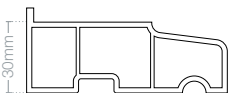


Aluminium reinforcing
vent transom
ERW84

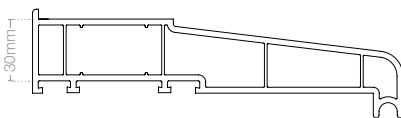


Aluminium reinforcing
transoms T & Z
ERW83

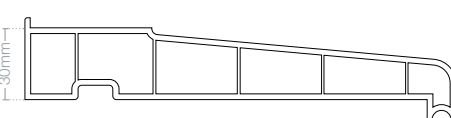
Cill components



85mm A type cill
AS 85



150mm A type cill
AC 150

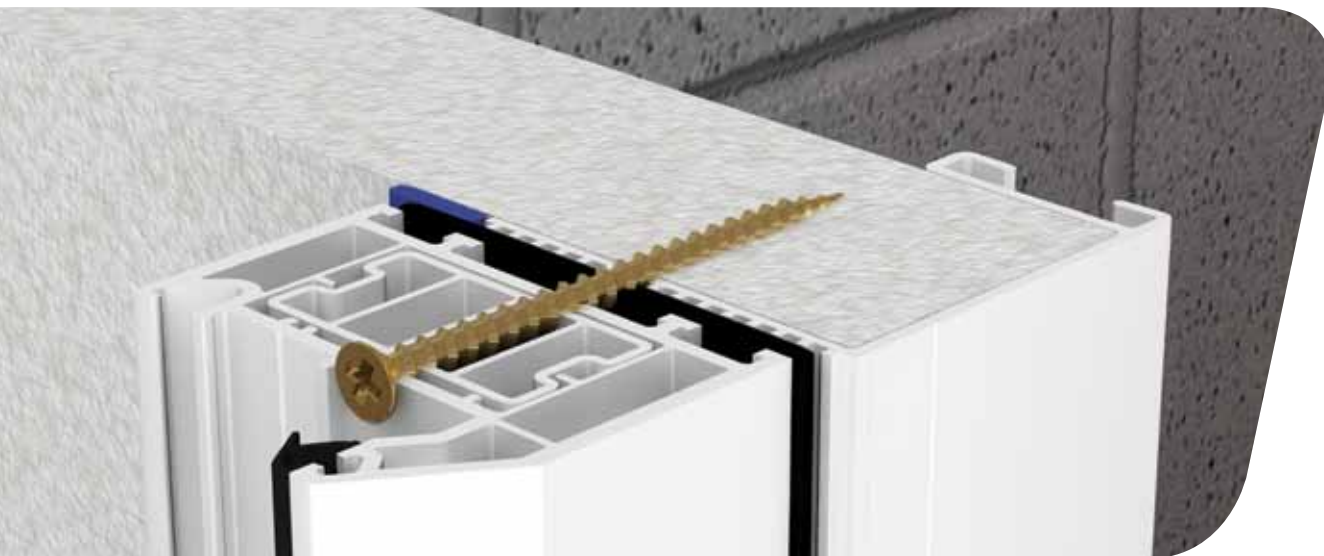
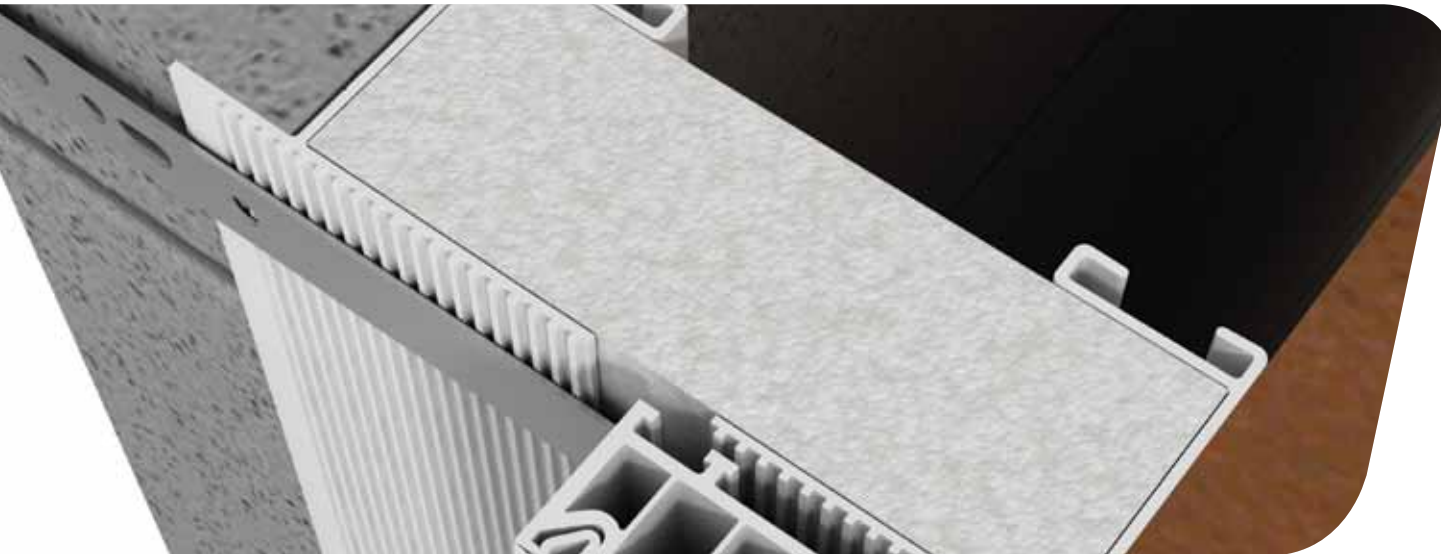


180mm A type cill
AC 180

Note: technical drawings are not to scale

Cavity closer solutions

– from Cavalok



Cavalok cavity closers provide a framework for windows to be fitted from either inside or outside the building

Overview

Rigid frame-forming cavity closers are essential components for new-build development

Cavity closer pioneers

Part of the Eurocell group, Cavalok offers a full range of frame forming cavity wall closers. These are the only BBA-accredited 100% post-consumer recycled PVC-U cavity closers currently available.

They provide a rigid bricklaying template around openings in cavity walls, and act as a window acceptor, damp proof course and thermal break.

Pre-insulated Cavalok cavity closers are the most widely used frame forming closures and help to save time, cost and energy on development projects.

Meeting standards

The Cavalok product range includes the one-hour fire-rated **FlameBlok** closer, as well as the **BigBlok** closer uniquely designed to fit cavities up to 300mm wide, which are increasingly

being specified for low and zero-carbon buildings. Cavalok also offers an innovative **Structural Closer** for specialist applications associated with higher CSH code requirements and passive house design solutions.

Cavalok products have been used to build new houses that achieve Level 6 in the Code for Sustainable Homes. Our commitment to constantly improving environmental best practice remains undiminished.

Why use a cavity closer?

PVC-U cavity closers are the simplest, most effective way to close off cavities around wall openings and provide a rigid window or door frame acceptor.

Easy-to-install

The simple modular fit system requires minimal tools, assuring you of consistent performance every time.

Built-in thermal efficiency

Cavalok cavity closers incorporate a pre-installed zero (GWP) and zero (ODP) insulation core, which not only improves thermal efficiency for Part L Building Regulations compliance, but also saves time on site because no additional insulation needs to be fitted.

Prevent cold-bridging, condensation and mould

Using rigid PVC-U cavity closers achieves a close fit around all building apertures to prevent draughts. It creates an effective damp-proof barrier and prevents cold-bridging, condensation and mould growth.

Complete window compatibility

Cavalok cavity closers are designed to accept most window systems. Windows can be fitted from either inside or outside the building, to assist compliance with HSE guidelines on working at height.

Cavity closer systems

– from Cavalok

Trade cavity closer



The simple, retro-fit option for existing walls

The Cavalok Trade cavity closer is a simple, versatile insulated dpc closer designed for use on refurbishment projects, or on new-builds where a decision to use cavity closers has been made after the walls are built.

Pre-insulated, 100% recycled cavity closer

Like other Cavalok cavity closures, the Trade closer features integral insulating foam that can rapidly improve thermal performance at door and window openings in existing buildings. It's also manufactured from post-consumer recycled PVC-U – plastic that would otherwise be sent to landfill.

Sizes to suit your project

The Cavalok Trade cavity closer can be supplied in any length for trimming on site. The simple design makes it compatible with all types of cavity wall of any age – its just slots into place between the walls around your building openings.

The Trade Closer is a one size product, supplied at 100mm, smaller sizes are achieved by trimming down the insulation along pre-cut lines.

Cavalok cavity closer



The high-performance, no-hassle way to create openings in new buildings

Specifying the Cavalok cavity closer takes all the hassle and uncertainty out of creating windows and door openings in new buildings. You will be able to quickly create precise, rigid, robust openings that are fully compliant with Building Regulations – saving you time and money in the construction process.

First choice for 50mm-100mm cavity walls

The Cavalok cavity closure system is designed to create window and door openings while sealing cavities between 50mm and 100mm wide. It is fully compatible with all types of building, whether masonry, steel or timber-framed, and with PVC-U, wood, metal and composite windows and doors.

Approved system for your peace of mind

The Cavalok cavity closure is fully NHBC and BBA approved as a closer and acceptor, and complies with Building Regulations and Accredited Construction Details (ACDs).

BigBlok cavity closer



BigBlok – the sustainable system for low-carbon projects

BigBlok cavity closers have been developed to meet the demand for closures in buildings with cavities from 125mm to 300mm wide.

Larger cavities that can accommodate more insulation are increasingly being specified on new-build properties to meet stringent thermal efficiency regulations and the requirements of the Code for Sustainable Homes.

Sizes to suit every project

BigBlok cavity closers are available in a wide range of sizes to suit the latest building regulations: 125mm cavity, 140mm cavity, 150mm cavity, 170mm cavity, 200mm cavity, 250mm cavity and 300mm cavity.

Structural cavity closer



A cavity closer that meets Fabrication First and Passivhaus specifications

Structural cavity closers have been developed to accept direct loads on wider cavities up to 300mm to meet Passive House Design and CSH requirements.

Why choose the Structural cavity closer system?

- ▶ No need for long window straps, excellent screw retention for direct window fixing capabilities
- ▶ New super insulating structural foam technology enables loading of heavy 'A'-rated windows directly over cavity
- ▶ Developed for 'Fabrication First' design principles
- ▶ Reinforced with steel for inner and outer leaf support
- ▶ Forms a template to facilitate square and accurate opening for brick laying

Cavity closer systems

– from Cavalok

FlameBlok cavity closer



Cavity closer incorporating a cavity fire barrier offers unequalled fire protection

The **FlameBlok** cavity closer is the first fully tested fire-rated cavity closer available for cavities greater than 100mm, and the only fire-rated closer manufactured entirely from post-consumer recycled PVC-U. Wall cavities are a hidden danger area for fires, so cavity fire barriers that help to prevent fires spreading are a critical consideration.

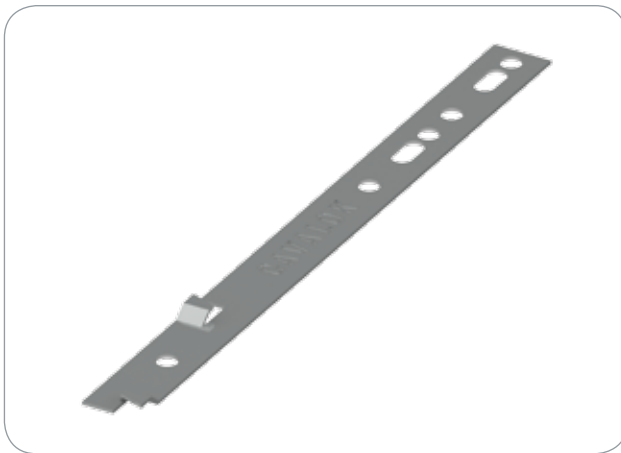
Independently-tested fire protection for up to 90 minutes

FlameBlok cavity closers create a continuous ring of fire protection around openings in cavity walls, combining cavity closer and cavity fire barrier in one product. They feature foil-encased fire insulation that reflects flames and heat and prevents moisture penetration. They have been independently and rigorously tested to BSE EN 1363-1:1999 by Chiltern International Fire, achieving 90-minute integrity in masonry walls and 60-minute integrity in timber-framed walls.

Ideal fire protection for timber and steel frame

FlameBlok represents a significant improvement on using timber battens to close cavities in framed buildings, providing better thermal performance at the junction, better fire performance and enabling windows to be easily removed. What's more, the **FlameBlok** cavity closer has been specially designed to meet the needs of timber frame detailing. It is also the ideal choice for commercial developments where there is a greater risk of fire.

Universal window strap



Strong, adjustable steel fixing strap for standard and extra wide reveals

The Cavalok universal window strap is a robust steel component designed to fix windows quickly and securely into cavity walls of all sizes. The universal strap is compatible with most PVC-U window systems, and is the ideal way to fix windows in place on new-build or replacement projects.

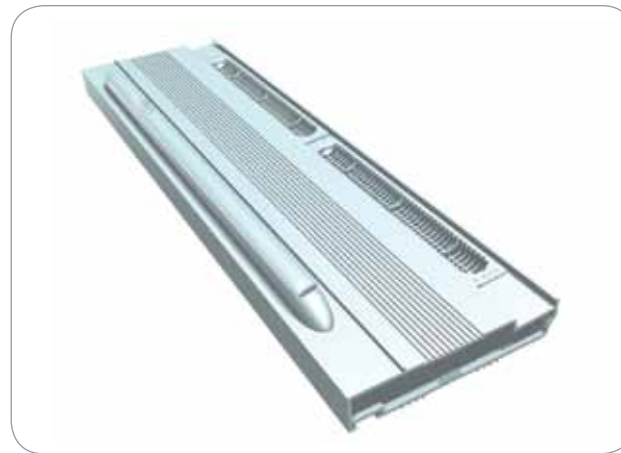
Clip and lock for secure window fitting

The steel strap clips and locks onto the outer window frame, with no need for screws or fixings. Once the window is positioned in the building aperture, the strap is simply screwed to the interior blockwork to secure the window in place.

Adjustable strap fits even the widest wall cavities

At 250mm long, the Cavalok universal window strap is one of very few on the market designed specifically for today's wider cavity sizes. The final 50mm of the strap can be removed to create a shorter strap suitable for more conventional cavities up to 100mm wide. The window fixings are perfect for rapidly fitting PVC-U windows.

HeadVent



Effective over-frame trickle ventilation

The Cavalok **HeadVent** is a simple, unobtrusive and effective way to deliver excellent ventilation to your buildings, eliminating the need for unsightly through-frame ventilation.

This attractive, slimline over-frame ventilation profile maximises airflow performance and minimises fabrication and fitting time, with no need to drill through the window frame. What's more, the **HeadVent** can deliver a greater airflow than by through-frame vents. Venting over the window frame makes it easier to meet the requirements of Part F of the Building Regulations.

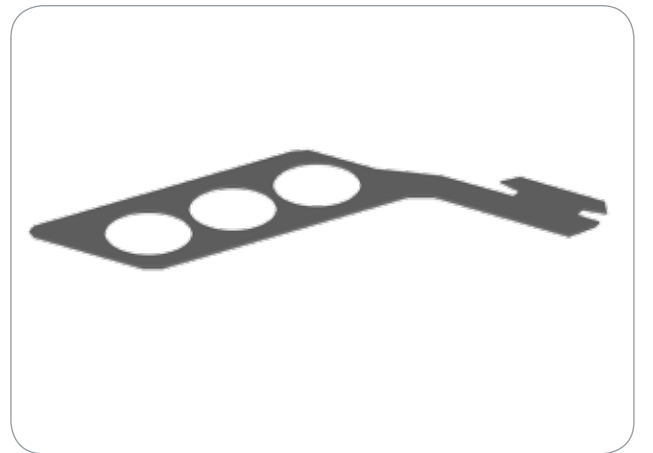
High-performance, compatible components

HeadVent is compatible with most window systems. It is also designed to combine easily with the **Cavalok** and **BigBlok** closer ranges, or can be fitted independently to the window frame. For a complete solution, we also supply a range of complementary vent and grill accessories, enabling you to achieve the best combination of aesthetics and ventilation performance.

Why choose the Cavalok **HeadVent** system?

- ▶ Slimline, scotia-moulded design – for attractive appearance
- ▶ Maximise airflow – to meet Part F regulations
- ▶ Simple and fast to fit – saving you time and money
- ▶ Compatible with PVC-U window systems up to 70mm wide – to suit most buildings

Metal brick tie



For thin joint block work solutions

In addition to the standard plastic ties used for keying in Cavalok closers into course work there is also a metal tie option specifically designed for thin joint block work systems. At only 0.6mm thick the ties are made of zinc coated steel to maintain a strong and robust key within mortar joints as thin as 0.8mm thick. The unique three hole design ensures maximum surface adhesion within the thinnest of mortar joints.

- ▶ Designed for use with mortar joints as thin as 0.8mm
- ▶ Can also be used as a multipurpose tie for general use alongside the standard Cavalok plastic tie

aspect

Panoramic door system

eurocell
All together better



aspect 4-2-2 configuration bi-fold door in Irish Oak with Black hardware

Overview

Aspect is the first and only bi-fold door with BBA certification in the UK

A door style in demand

As homeowners and housebuilders seek to improve their homes and inject that elusive “wow” factor, the stunning panoramic style of door has become an increasingly popular choice. Panoramic doors enable large glazed ‘walls’ to be created, flooding interiors with natural light and bringing the outside into the home. The concertina-style folding and sliding design enables the entire doorway to be opened up, seamlessly integrating indoor and outdoor spaces.

aspect makes aspirations a reality

aspect is a high-performance, secure and visually stunning PVC-U bi-fold door system that’s designed for hassle-free fabrication and fitting. **aspect** offers all the aesthetic and functional

benefits of timber and aluminium alternatives, but at a more affordable price. It incorporates a host of intelligently designed and precision-engineered bespoke components that enable accurate, consistent, straightforward fabrication and installation.

Engineered for fabricators and fitters, styled for your customers

aspect panoramic doors have been purpose-designed by our technical specialists to include features that enable quick and simple fabrication and fitting, without compromising on the quality or appearance of these stunning panoramic doors. These features include:

Minimal welding, cutting and trimming
aspect has a bespoke profile system which allows for minimal welding, cutting and trimming – to give a better

quality, more consistent finish to every bi-fold door for your customers.

Integral gaskets save time and money

The door profile and outer frame glazing gaskets are co-extruded, so you won’t have to buy gaskets separately and fit them yourself – saving you time and money.

Fewer components for faster fabrication

aspect has been designed with no need for a dummy mullion, reducing the number of components needed for faster, more efficient fabrication.

Meeting regulations

aspect panoramic doors are available double glazed with a **U-value performance of up to 1.3Wm²/K**, or triple glazed with a **U-value of 0.9Wm²/K**.



Slim stepped outerframe and adonised aluminium track

Features and benefits

Aspect aesthetics

- ▶ Door openings up to six metres wide, with up to seven door panels*
- ▶ Unique roller assembly means doors can be configured to meet customer preferences, including the popular 4/2/2 configuration as well as simple 2/2/0 arrangements to replace existing patio doors
- ▶ A special trim (patent-pending) conceals unsightly black gaskets between door leaves
- ▶ No dummy mullion required (patent-pending)
- ▶ Doors can be fitted with midrails and letter plates for front entrances
- ▶ Opening sashes can be incorporated within the door

- ▶ Unique D-handle fits flat to the door frame
- ▶ Compatible with **eurologik70** window and conservatory systems

Aspect functionality

- ▶ Enclosed four-rail aluminium roller track for easy-glide door operation
- ▶ D-handle engages top and bottom shoot bolts, and is specially engineered to prevent bolts being engaged when the doors are open.
- ▶ In-built rollers allow threshold height to be minimised as standard.
- ▶ Low-threshold options available for internal and external use
- ▶ Finger-operated shoot bolt for traffic door leaves – designed for easy operation to engage both top and bottom shoot bolts

- ▶ Angled threshold drip trim contoured to expel water and maintain excellent weather tightness (can also be reversed to act as a head drip trim)

- ▶ Magnetic door stops keep doors neatly folded back

Aspect security

- ▶ Top rollers feature integral anti-jimmy pins, so that doors cannot be removed by force from the outside
- ▶ All sashes are steel reinforced for superior strength and rigidity
- ▶ BS 6375 and PAS 23/24 accredited

Accreditations

BBA

Certification granted, number pending.

PAS 23 / 24

For enhanced security. Will allow fabricators to achieve Secured By Design status.

Secured By Design

BS6375-1:2009

Our doors are tested to BS6375-1:2009 (Performance of Windows and Doors), and far exceed the minimum requirements set out for the most extreme weather test.

Colour options

Door profile colour options



Hardware colour options



Key features



Gasket concealing trim (patent pending)

A special trim conceals unsightly black gaskets between door leaves, creating a clean, attractive finish.

Colour options:

White, Cream, Golden Oak, Rosewood, Irish Oak, Grey, White Ash, Black Ash.



No dummy mullion! (patent pending)

Doors require no dummy mullion – creating an uncluttered door finish with equal sightlines to rival any bi-fold door on the market.



Unique D-handle

The unique D-shaped interior handle allows the doors to fold back flatter – maximising the size of the door opening.

Plus, it has an intelligent anti-mishandling feature, specially engineered to prevent bolts being engaged when the doors are open.



Bespoke British-designed hardware

The hardware itself is bespoke to the Aspect bi-fold door system. British designed and assembled, all hardware comes with a five-year guarantee (conditions apply).



Aspect panoramic door configurations

Multiple options available



All together better



Door with 4-2-2 configuration

How configurations work

How configurations work:

4-2-2

Total number of leaves

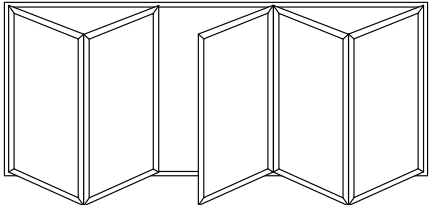
Number of leaves folding left

Number of leaves folding right

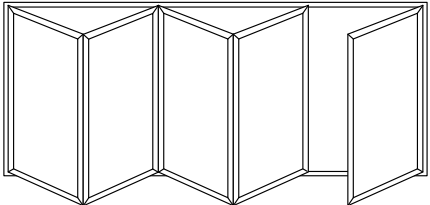
All options are available with inward or outward opening doors.

Extra leaves and additional configurations can be chosen, up to the maximum width of six metres*. For spans of more than six metres, multiple doors can be butt-jointed. A project assessment by a qualified structural engineer will be required.

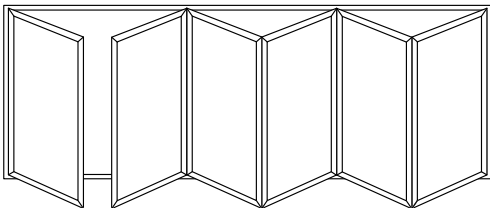
* Note: Door sashes have maximum width of 900mm



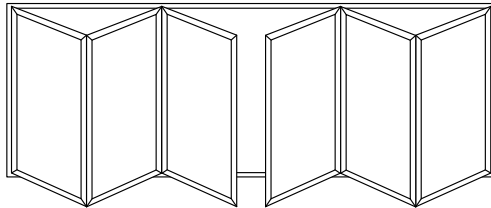
5-2-3
(5-3-2 available)



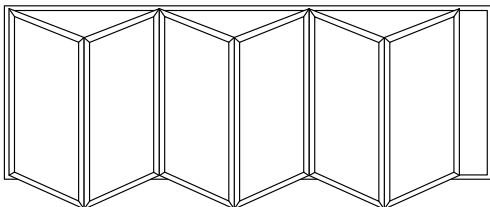
5-4-1
(5-1-4 available)



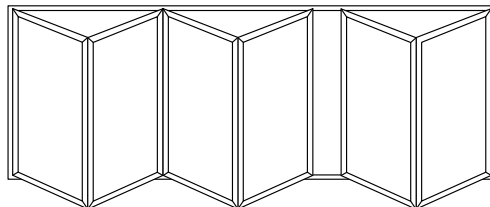
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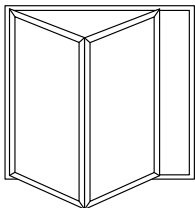
6-3-3



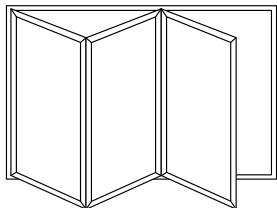
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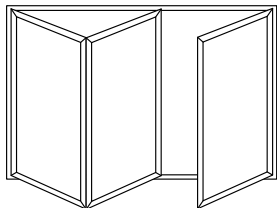
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(6-2-4 available)



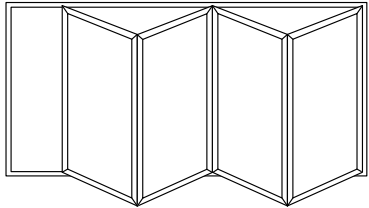
2-2-0
(2-0-2 available)



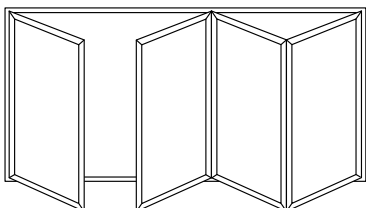
3-3-0
(3-0-3 available)



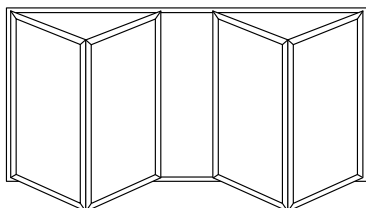
3-2-1
(3-1-2 available)



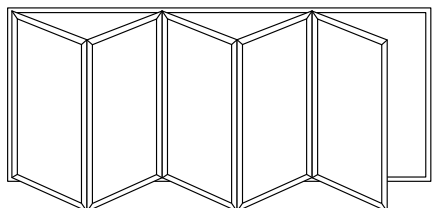
4-0-4
(4-4-0 available)



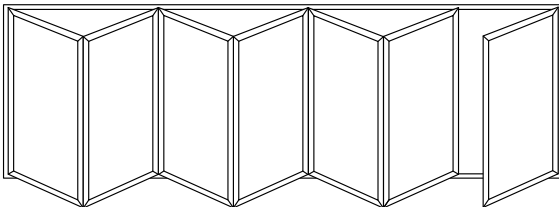
4-1-3
(4-3-1 available)



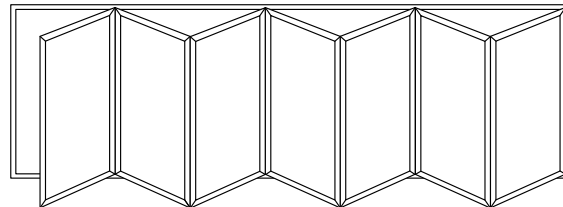
4-2-2



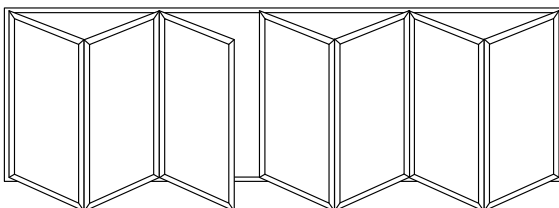
5-5-0
(5-0-5 available)



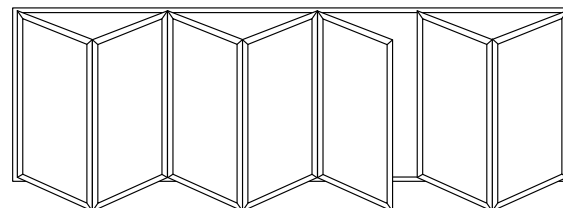
7-6-1
(7-1-6 available)



7-0-7
(7-7-0 available)



7-3-4
(7-4-3 available)

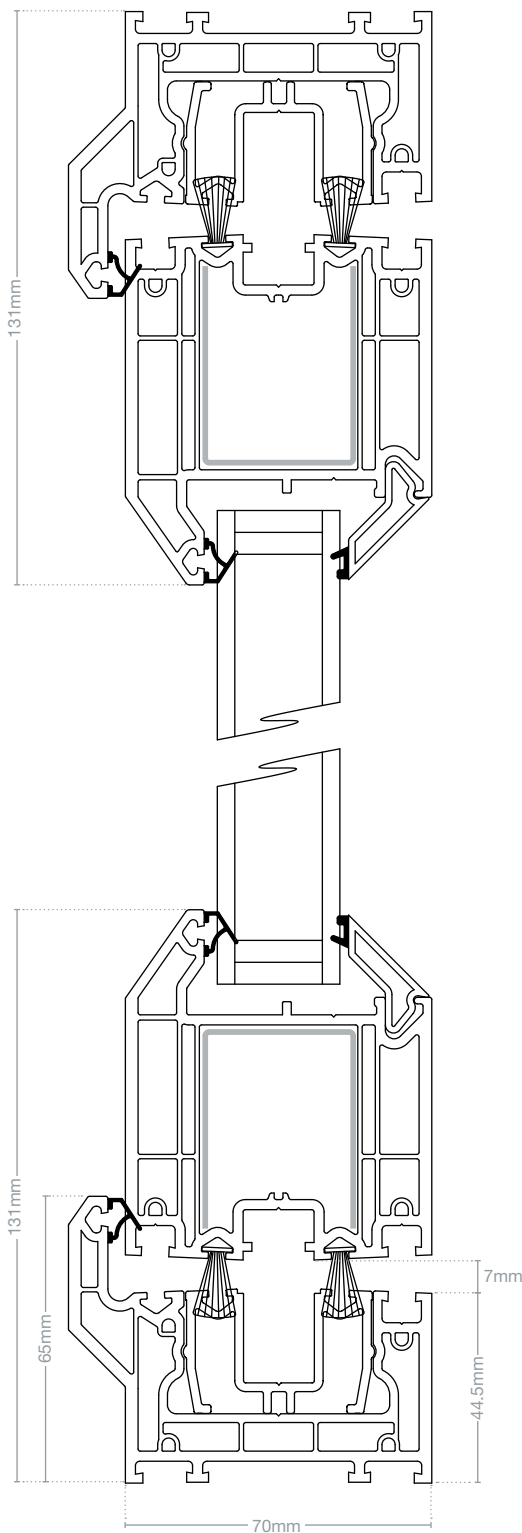


7-5-2
(7-2-5 available)

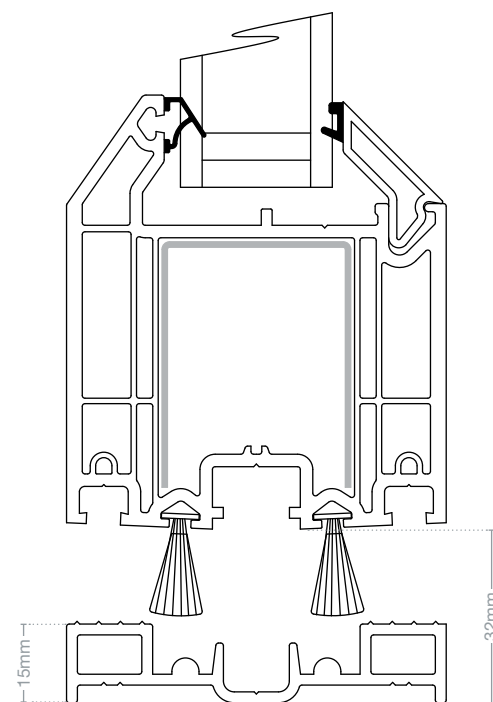
Aspect panoramic doors

Typical vertical cross section

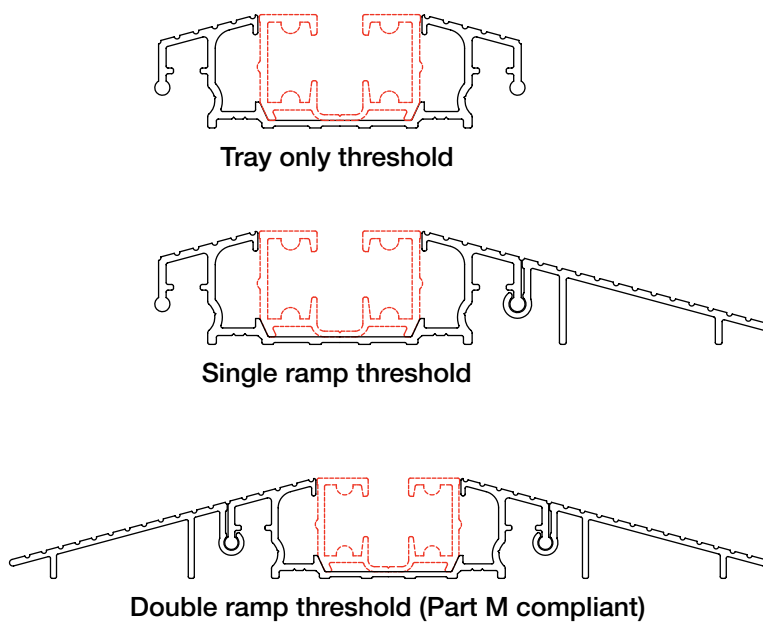
▼ aspect



▼ Room divider
For internal use only



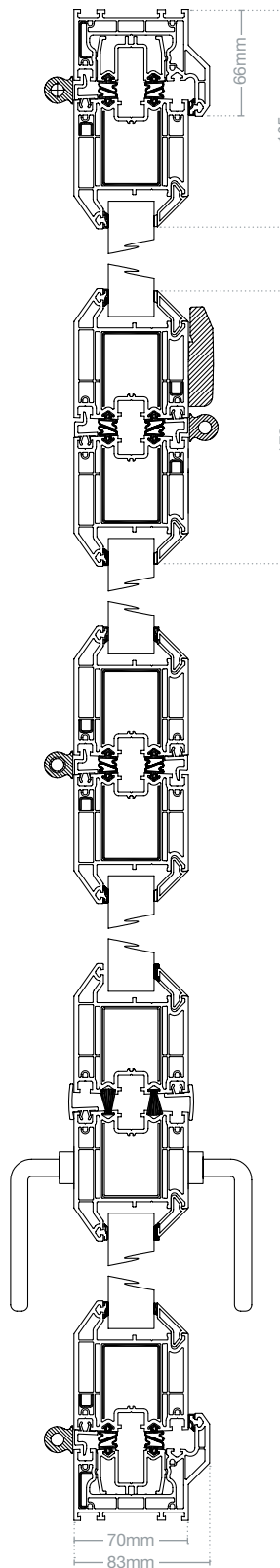
▼ External low threshold options



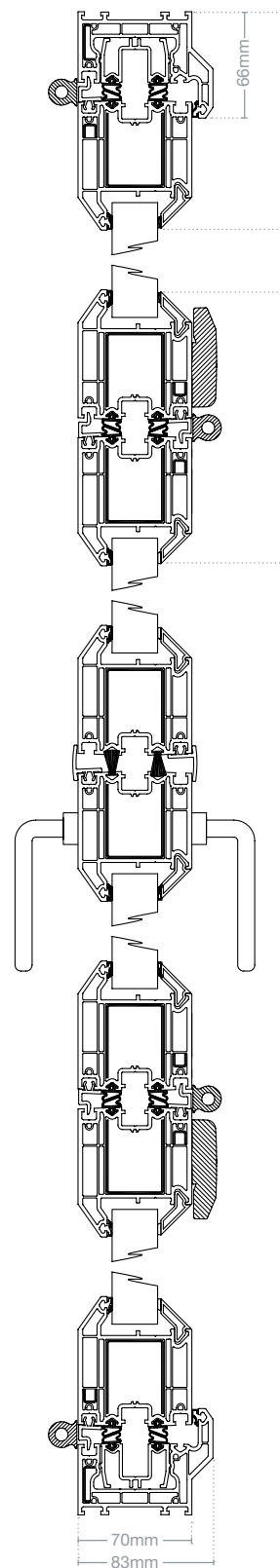
Aspect panoramic doors

Horizontal sections

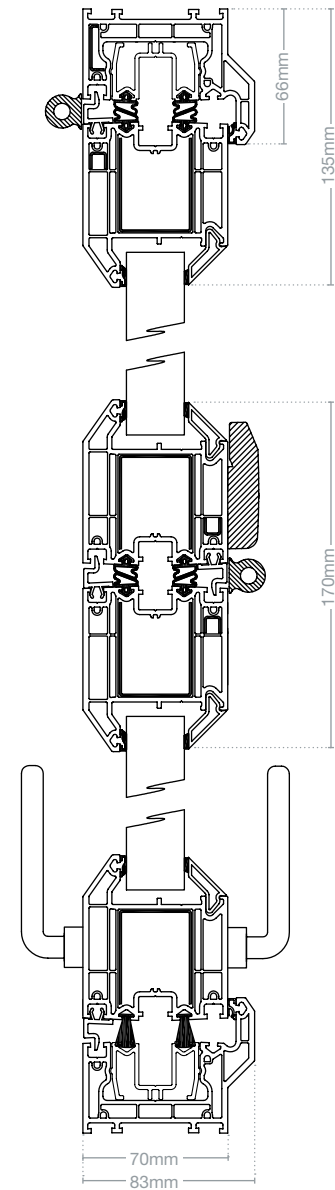
▼ 4-3-1 pane



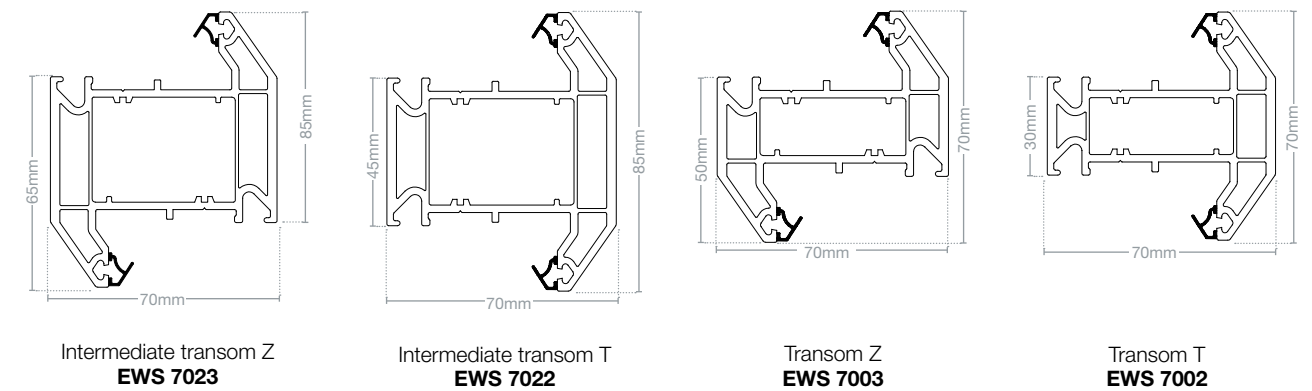
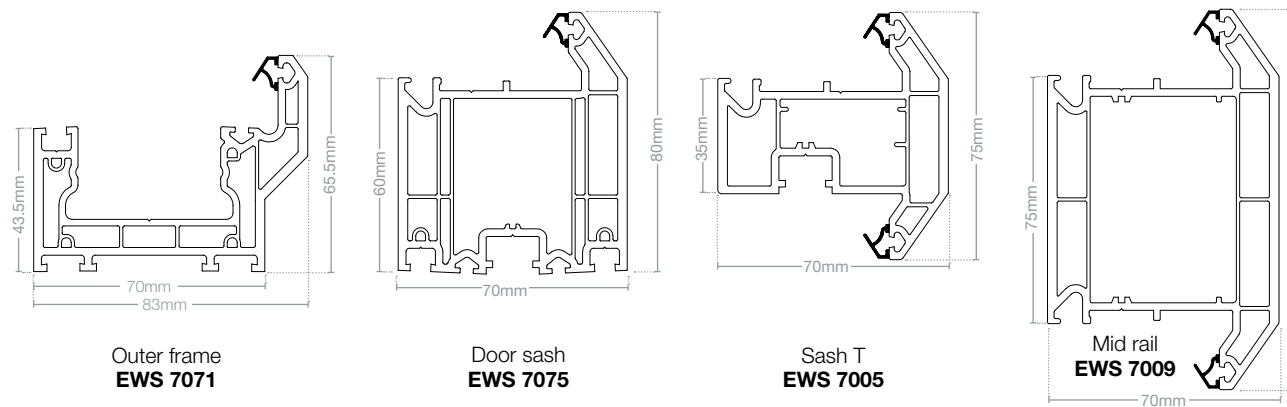
▼ 4-2-2 pane



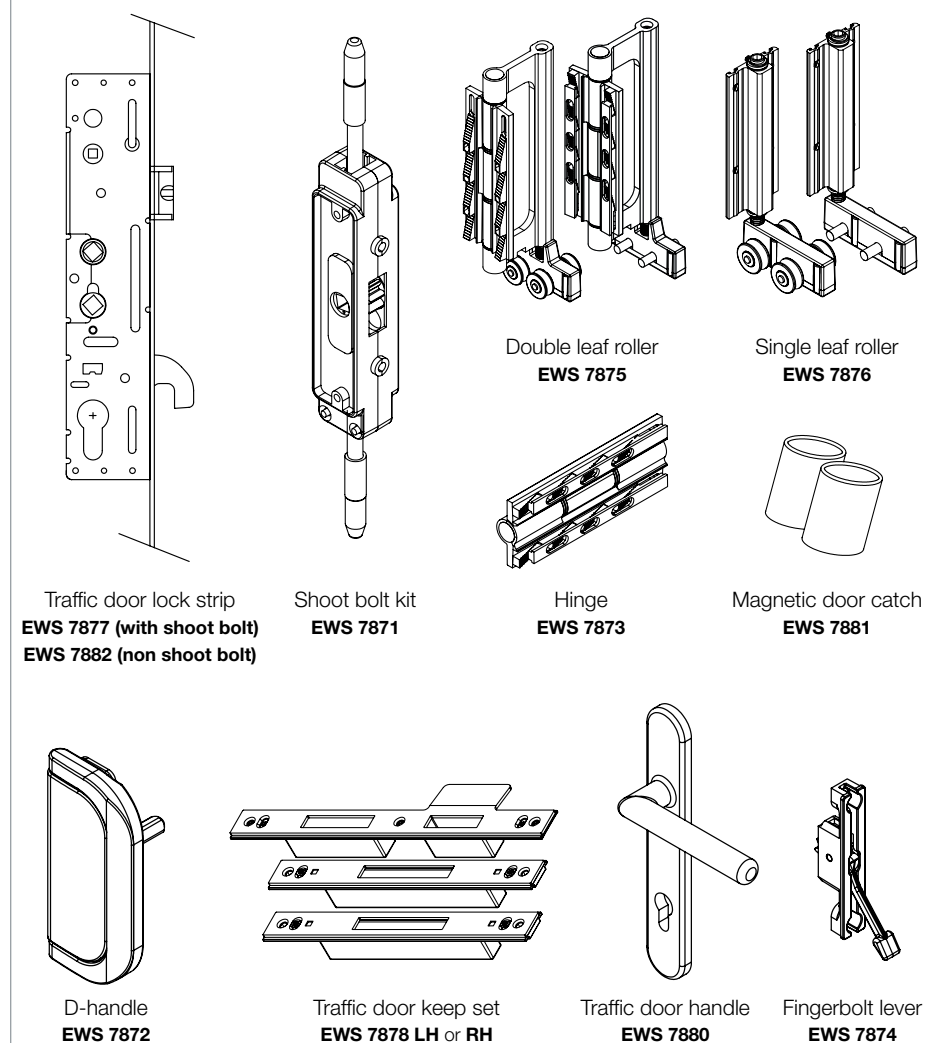
▼ 2-2-0 pane



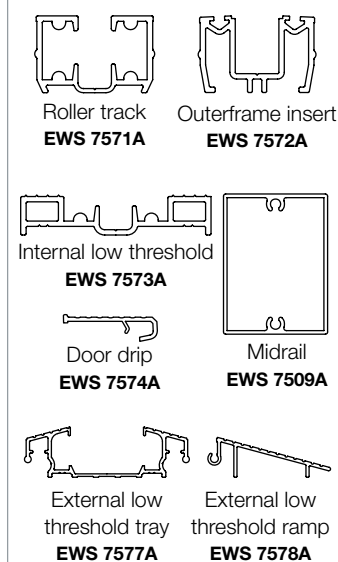
Main profiles



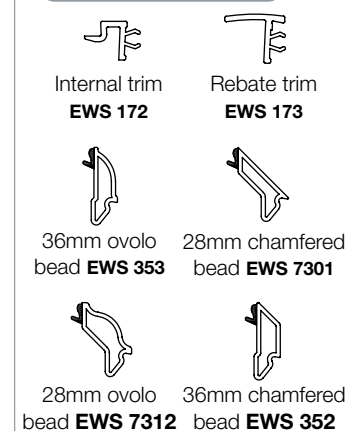
Hardware



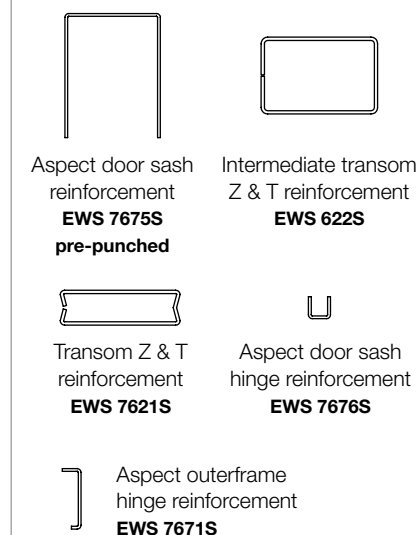
Aluminium extensions



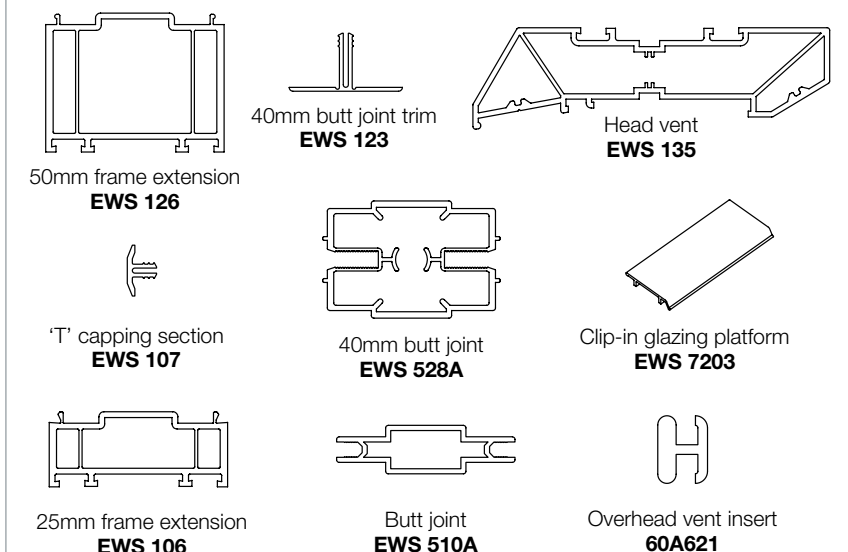
Trims and beads



Steel reinforcements



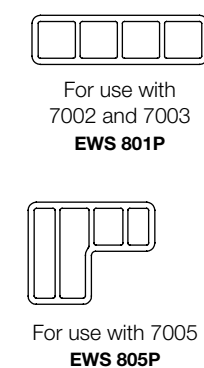
Ancillaries



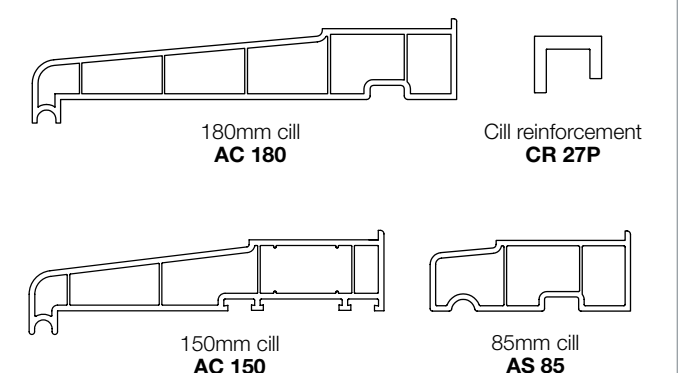
Weather seals



PVC-U Thermal Inserts



Cills



euroslide

In-line patio door system

eurocell
All together better



Overview

Space-saving, versatile PVC-U patio doors to enhance any property

In-line sliding patio doors are the cost-effective way to bring the outside in to your building and flood the interior with natural light. Ideal for conservatories, living rooms or offices, the space-saving Euroslide patio door system is available in a full range of colours and woodgrain finishes to match any style of property.

Flexible door configurations

Eurocell sliding patio doors give you the flexibility to create various door styles, with two, three or four-pane options available. You can enhance your doors with a range of high-quality door furniture in a choice of chrome, gold or white, to match the rest of your property.

PVC-U patio doors provide superb protection from the elements and high levels of security. The profile structure features separate chambers for improved drainage, strength and thermal efficiency.

Fast, hassle-free installation

Integral gaskets and our patented knock-in bead system enable rapid, simple fabrication and installation, while an optional overhead vent avoids the need for routing through the door profile.

Fully compatible with Eurocell window profiles

Like all Eurocell door systems, our sliding patio doors are compatible with **eurologik70** and **unilogik62** profile systems, enabling you to achieve a consistent look and guaranteed colour match across an entire property. Because the same profiles are used for Eurocell windows and doors, you can even position windows on either side of the patio doors to create larger areas of glass.



Two pane patio doors in bespoke Grey

euroslide

In-line patio door system



Accreditations

BS 6375 Part One
Classification for weathertightness and
guidance on selection and specification

Features and benefits

- ▶ Full Eurogroove where applicable to accept most kinds of suitable hardware
- ▶ Separate chambers for improved drainage, thermal-efficiency and strength
- ▶ 28mm glazing as standard
- ▶ Fully bevelled for a slim visual profile and clean sight lines
- ▶ Can be directly butted up to the Eurocell **eurologik70**
- ▶ Internally glazed for improved security
- ▶ Fusion welded joints
- ▶ Patented knock-in 45° putty-line and scotia bead
- ▶ Pre-gasketed sash reduces fabrication time
- ▶ Robust steel and aluminium reinforcing sections

Energy efficiency and thermal performance

Eurocell is constantly innovating to ensure that our PVC-U doors continue to meet the demands of ever-changing environmental and safety requirements – helping you to design the secure, sustainable buildings of tomorrow. The Eurocell **euroslide** in-line patio door system can achieve **u-values**

from 1.8-1.2. Door Energy Ratings (DERs) can also be calculated.

At Eurocell we have BFRC-certified simulators who are fully qualified to calculate DERs and give advice on requirements for compliance. For more information, please contact our technical department.

Reinforcement options

euroslide in-line patio door profiles can also be reinforced with steel or aluminium.

Decorative options

- ▶ **Scotia beads**

Colour options

Patio door profile colour options



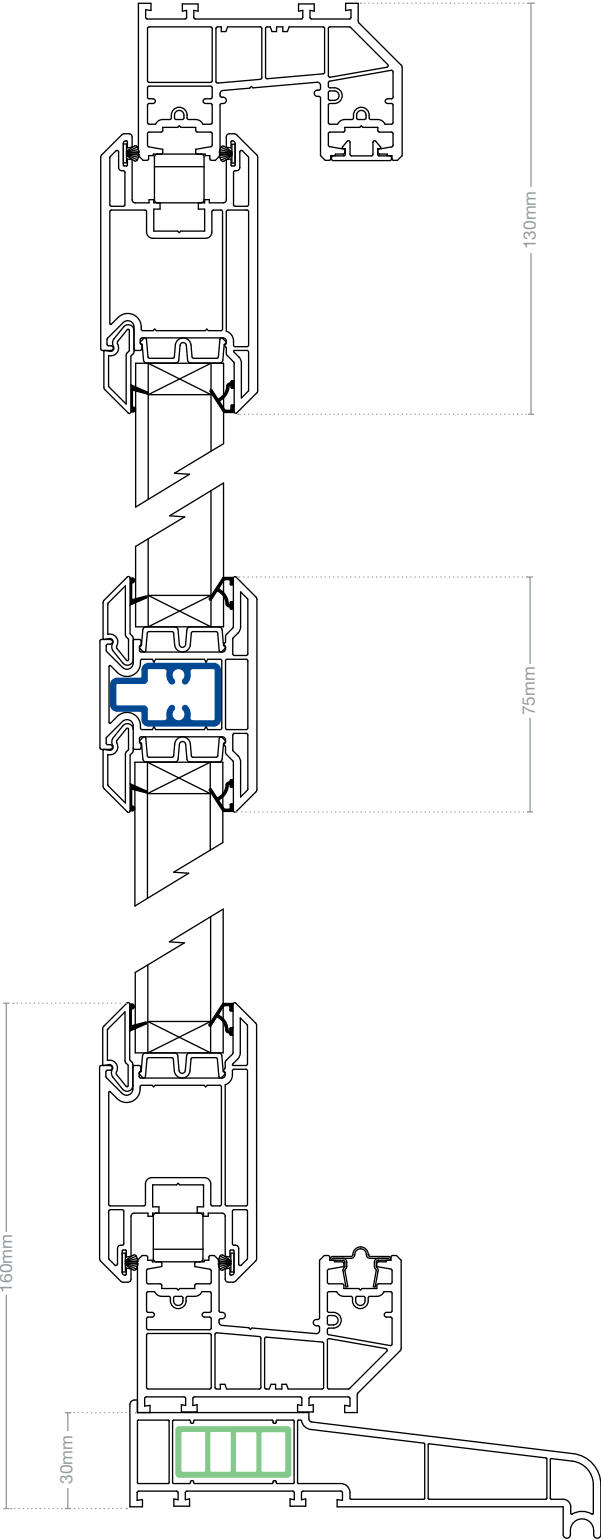
* These colours are available on extended leadtimes.

Special colours are also available on extended lead times

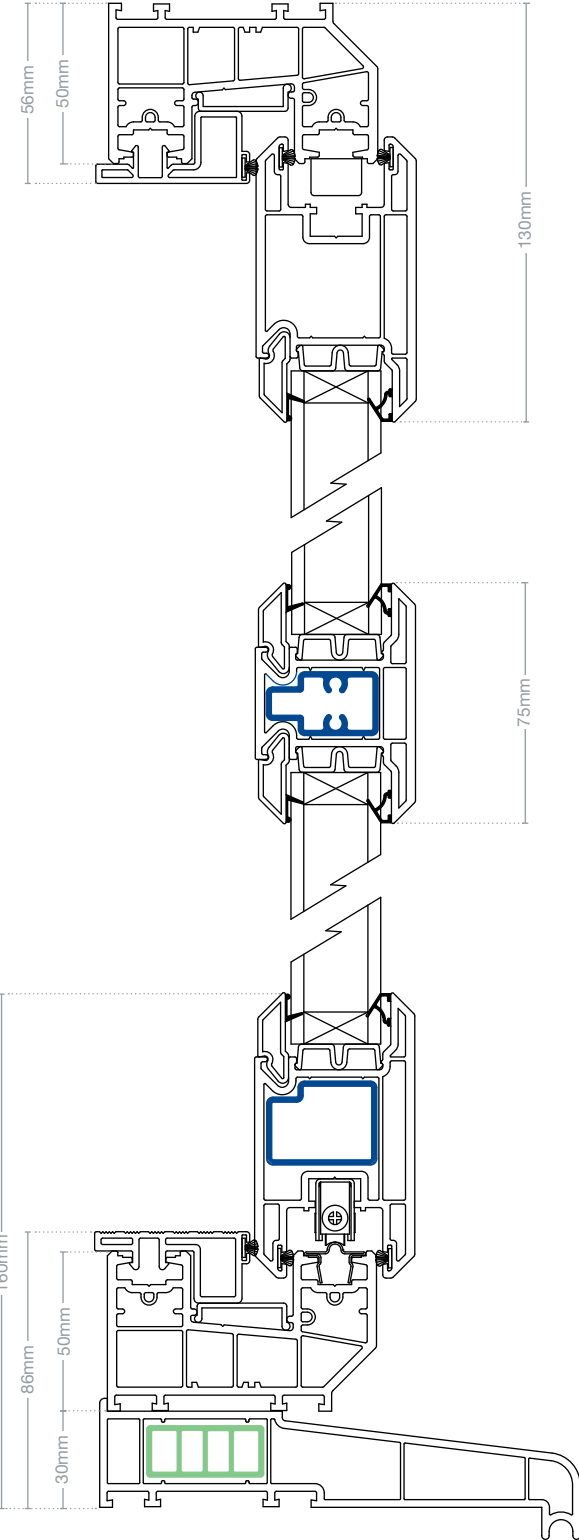
In-line patio doors

Fixed and sliding pane – vertical section

▼ Double glazed
Fixed sash, midrail



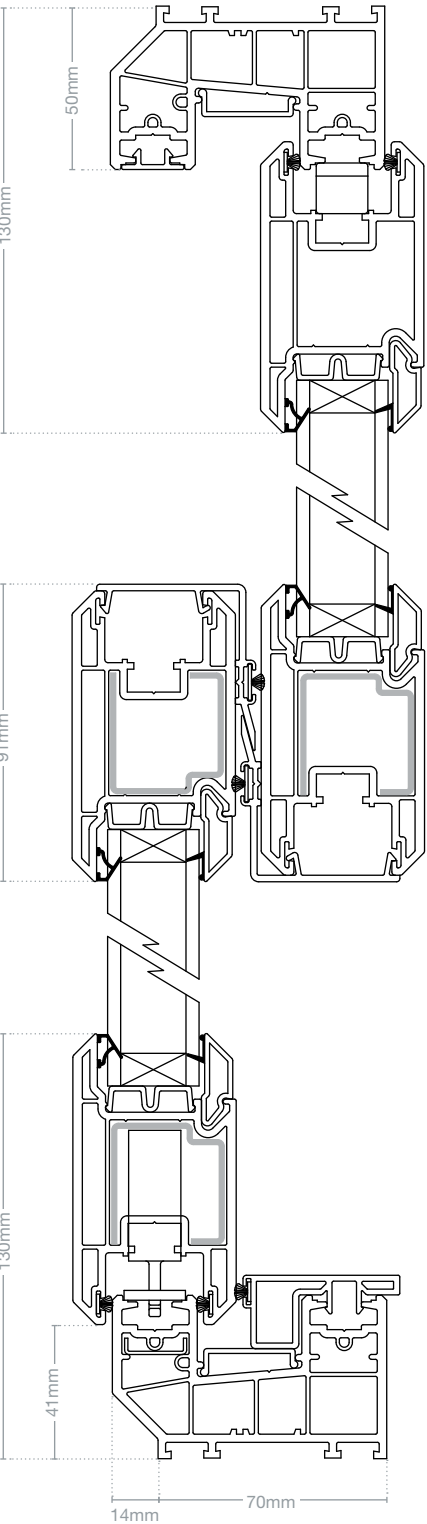
▼ Double glazed
Sliding sash, midrail



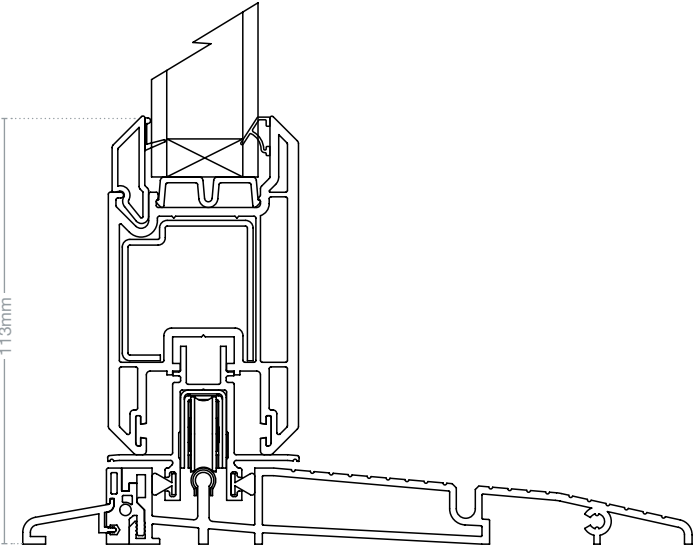
In-line patio doors

Two-pane style – horizontal section

▼ Double glazed

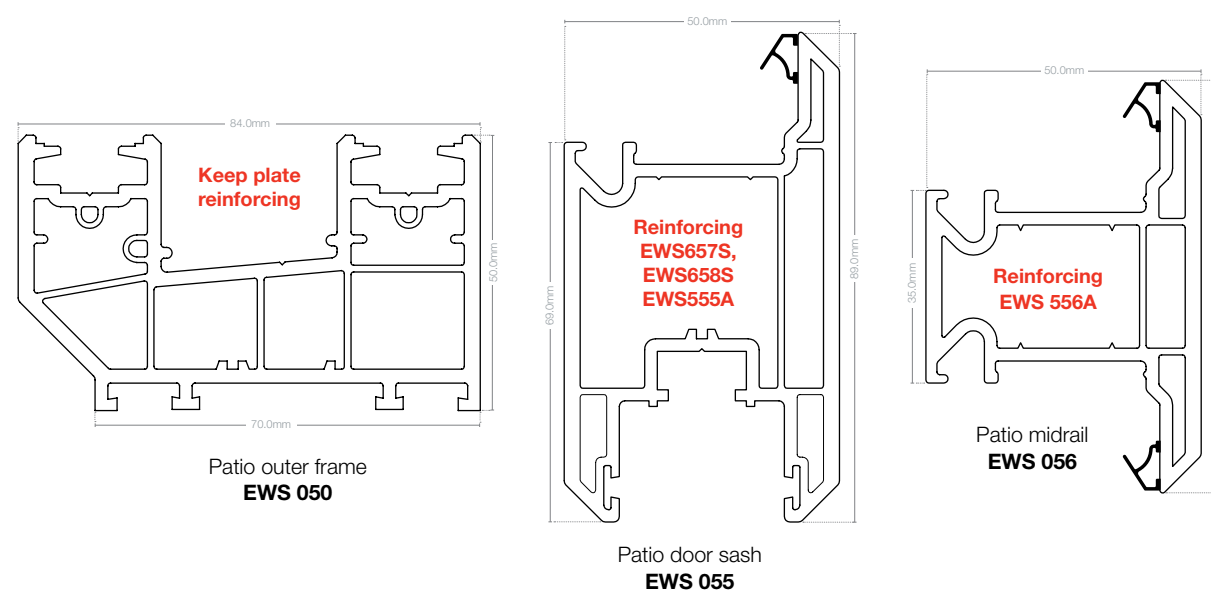


▼ Low threshold assembly

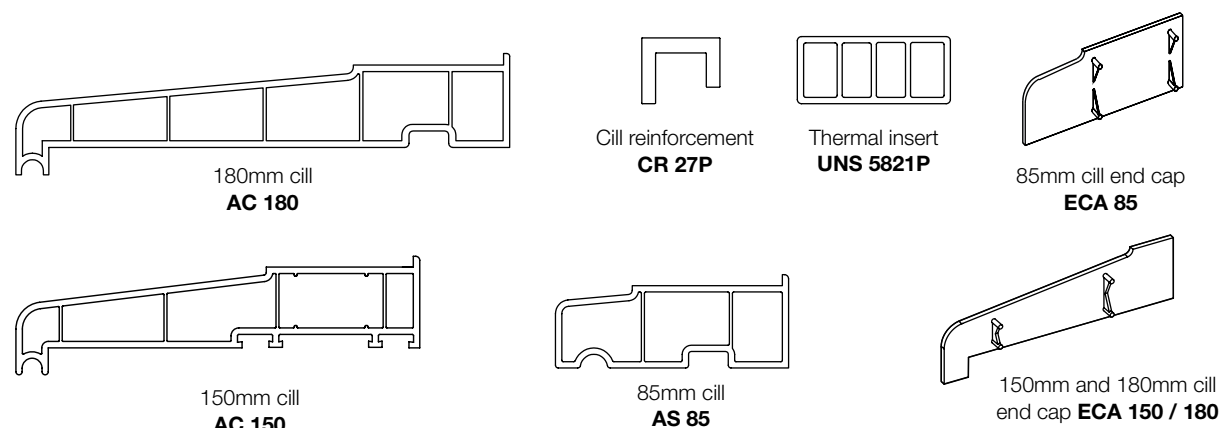


In-line patio door product chart

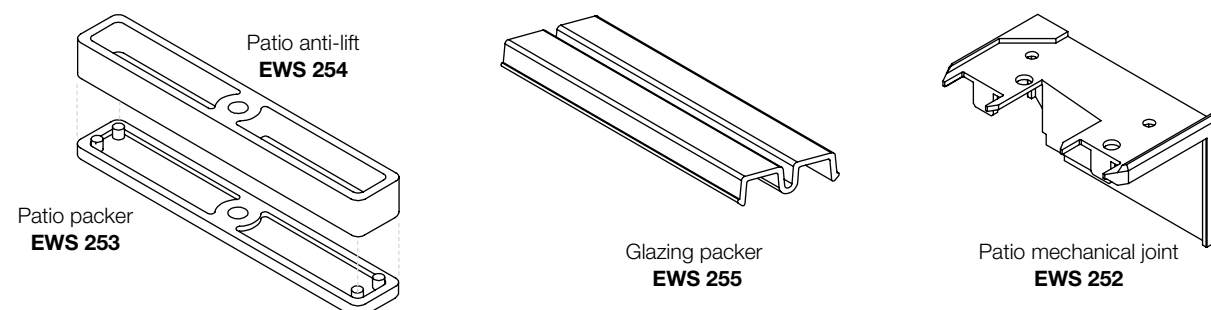
Main profiles



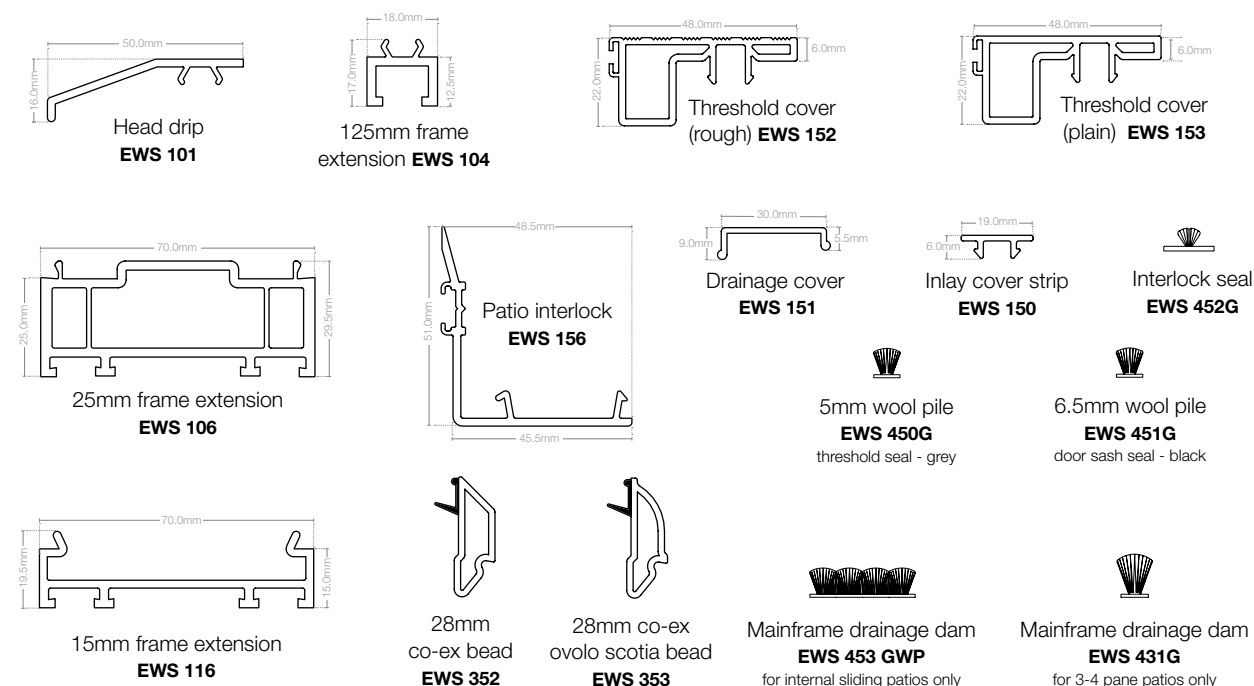
Cills



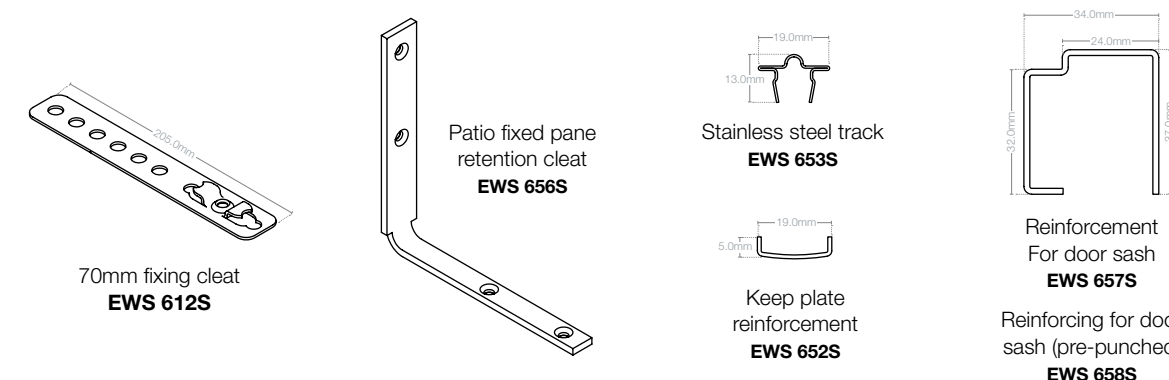
Mouldings



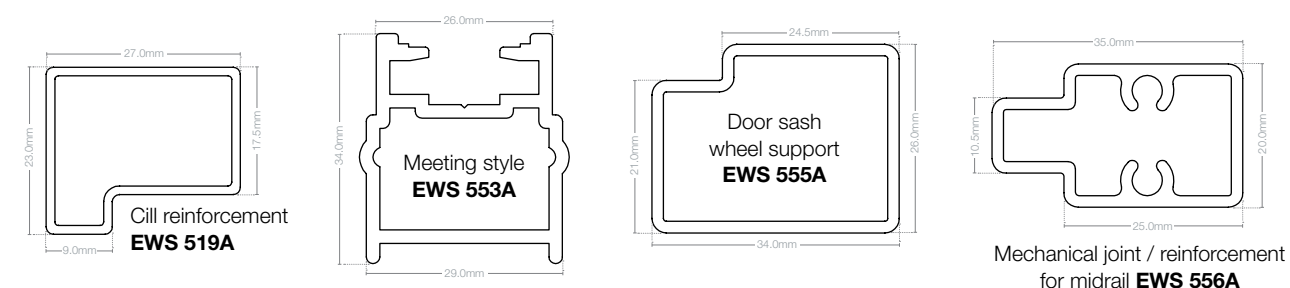
Ancillaries, beads and wool



Steel components



Aluminium components



the dales collection

Composite doors

eurocell
All together better



Overview

The Dales Collection of composite doors offers unrivalled aesthetics, security and energy efficiency for all residential buildings

The Dales Collection of composite doors from Eurocell offers you the most advanced engineering, design and technology for front or back entrance doors. With a choice of 12 styles in 13 colours and attractive glazing options, the Dales Collection offers a door to suit every home – from contemporary chic to traditional Edwardian or quaint cottage-style.

Unrivalled security

Our composite doors feature the latest multi-point locking technology for maximum security. Plus, Dales Collection doors and locks have been through rigorous tests which have earned them the approval of the Association of Chief Police Officers' Secured by Design scheme* and the Police Preferred Specification PAS23 & PAS24.

Superior thermal efficiency

A glass reinforced plastic (GRP) outer skin around a panel insulated with rigid foam means that our composite doors retain up to six times the heat of a timber door, keeping energy bills down. Plus, PVC-U Thermal Inserts in the frame offer improved energy efficiency and enhanced sustainability.

Low maintenance design

The GRP door leaf means there is no risk of splits or cracks. This outer skin is also less prone to scratching and denting than steel-faced doors.

All-weather performance

A high-quality triple-seal frame system means that composite doors give outstanding performance for many years.

Two brush seals and a gasket seal mean that drafts and rain are kept out, even in the fiercest weather conditions.

Accessible for all

Accredited low-level aluminium thresholds are available for Part M Building Regulations compliance, offering easy access for wheelchairs and pushchairs. The Eurocell composite door range is the ideal front door for those seeking easy access without compromise on style or performance.

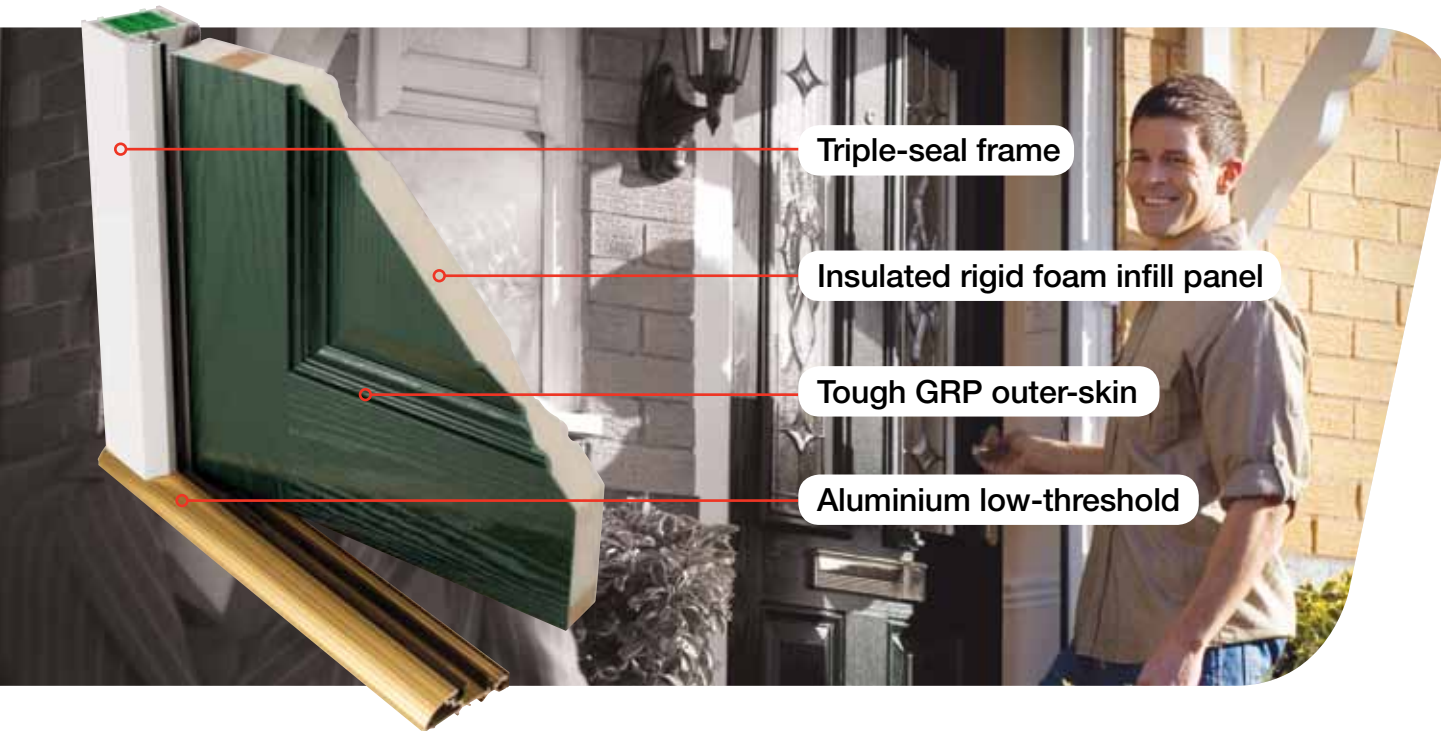
Colour-matching

The Dales Collection doors are also available with colour-matched weather bars.

*Subject to specification. Ask for more details

the dales collection

Composite doors



Accreditations



Official Police Security Initiative
Association of Chief Police Officers' Secured By Design
(subject to door specification)



PAS 23 / 24
(Certificate number KM500319)
Specification for general performance requirements / enhanced security performance of door assemblies



Q Mark
BM Trada Q Mark accredited, for enhanced door security

Features and benefits

- ▶ 12 stunning styles from traditional to contemporary, available in 13 colours for greater choice
- ▶ Hand finished woodgrain options
- ▶ Selection of quality door furniture with a choice of colour options, covered by a 25-year guarantee
- ▶ Triple-seal frame system ensures doors remain watertight even in the harshest weather conditions
- ▶ 3-way adjustable hinges mean they are quick and easy to install, saving you time and money
- ▶ Optional aluminium low-threshold
- ▶ PAS 23/24 for improved security as standard
- ▶ Association of Chief Police Officers' Secured by Design approved (subject to specification)
- ▶ BM Trada Q-mark achieved
- ▶ DERs are B-rated doors as standard. A-rated available – ask for more details

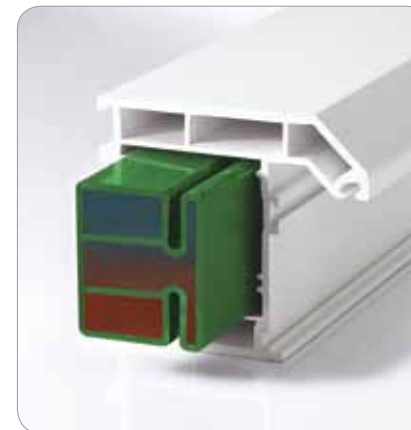
Energy efficiency and thermal performance

Eurocell is constantly innovating to ensure that our Dales Collection composite doors continue to meet the demands of ever-changing environmental and safety requirements – helping you to design the secure, sustainable buildings of tomorrow.

The Dales Collection composite doors achieve a **Door Energy Rating (DERs) of a B as standard**. A-ratings can also be calculated, ask for more details.

At Eurocell we have BFRC-certified simulators who are fully qualified to calculate DER's and give advice on requirements for compliance. For more information, please contact our technical department.

Frame reinforcement



PVC-U Thermal Inserts

PVC-U Thermal Inserts are the cost-effective, thermally efficient, easy-to-handle and sustainable alternative to steel and aluminium profile reinforcements.

Made entirely from recycled PVC-U, these advanced inserts are the sustainable way to create high-performance, energy-efficient windows to meet legislative requirements and market demand.

As well as delivering the enhanced energy efficiency and recyclability required to meet Code for Sustainable Homes and BREEAM guidelines, Eurocell PVC-U Thermal Inserts achieve structural strength and rigidity for metal-free window frames. Eurocell PVC-U Thermal Inserts have been tested by the BBA to BS EN6375, achieving impressive results.

Colour options

Standard door colour options

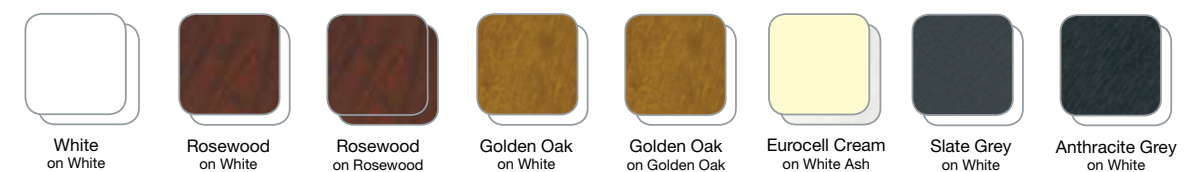


Note: All doors are Frost White internally as standard. Golden Oak and Rosewood are also available on both sides

Made-to-order door colour options



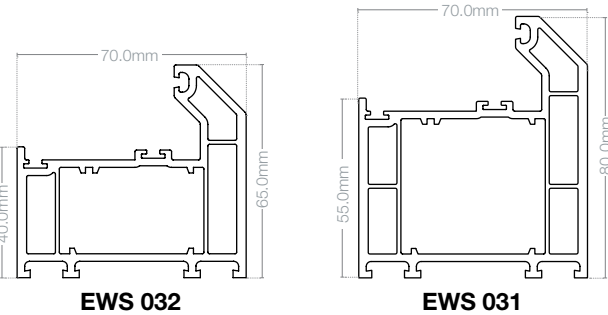
Standard frame colour options



the dales collection

Composite doors

Min / max size information All measurements in mm. Sizes include outerframe. Sizes do not include cill, extensions etc



Choose from two different outer frames.

All measurements in mm.
Sizes include outerframe.
Sizes **do not** include cill, extensions etc
Cill will increase door height by 30mm

Door style	Width		Height (All low-threshold)		Height (PVC-U bottom)	
	Min	Max	Min	Max	Min	Max
Bradbourne	860	1012	1979	2089	2021	2130
Chatsworth	860	1012	1979	2089	2021	2130
Cromford	860	1012	1979	2089	2021	2130
Hathersage	860	1012	1979	2089	2021	2130
Wirksworth	835	1012	1979	2089	2021	2130
Winstar	860	1012	1979	2089	2021	2130
Brassington	835	1012	1979	2089	2021	2130
Middleton	835	1012	1979	2089	2021	2130
Thorpe	835	1012	1979	2089	2021	2130
Bretton	835	1012	1979	2089	2021	2130
Chelmorton	835	1012	1964	2089	2021	2130
Litton	835	1012	1964	2089	2021	2130

If door has GRP side panel and an aluminium low-threshold, min height = 2020. All heights are reduced by 3mm if open out aluminium low-threshold

If door has GRP side panel and PVC-U bottom, max height = 2121

Door style	Width		Height (All low-threshold)		Height (032 full outer)		Height (031 threshold)	
	Min	Max	Min	Max	Min	Max	Min	Max
Bradbourne	830	982	1964	2074	1991	2100	2006	2115
Chatsworth	830	982	1964	2074	1991	2100	2006	2115
Cromford	830	982	1964	2074	1991	2100	2006	2115
Hathersage	830	982	1964	2074	1991	2100	2006	2115
Wirksworth	830	982	1964	2074	1991	2100	2006	2115
Winstar	830	982	1964	2074	1991	2100	2006	2115
Brassington	805	982	1964	2074	1991	2100	2006	2115
Middleton	805	982	1964	2074	1991	2100	2006	2115
Thorpe	805	982	1964	2074	1991	2100	2006	2115
Bretton	805	982	1964	2074	1991	2100	2006	2115
Chelmorton	805	982	1964	2074	1991	2100	2006	2115
Litton	805	982	1964	2074	1991	2100	2006	2115

If door has GRP side panel and an aluminium low-threshold, min height = 2005. All heights are reduced by 3mm if open out aluminium low-threshold

If door has GRP side panel and PVC-U bottom, max height = 2091

032 is 15mm smaller on both faces

GRP side panels

Min width	Max width	Height
410	475	To suit door

All side lights are separate.
Sizes include outer frame and coupler

Top lights

Transom height from bottom of door

Aluminium low-threshold		PVC-U bottom	
Min	Max	Min	Max
1945	2054	1986	2095

Dimensions to centre of transom. Doors over 2750mm will have separate top lights

GRP side panels

Min width	Max width	Height
410	475	To suit door

All side lights are separate.
Sizes include outer frame and coupler

Top lights

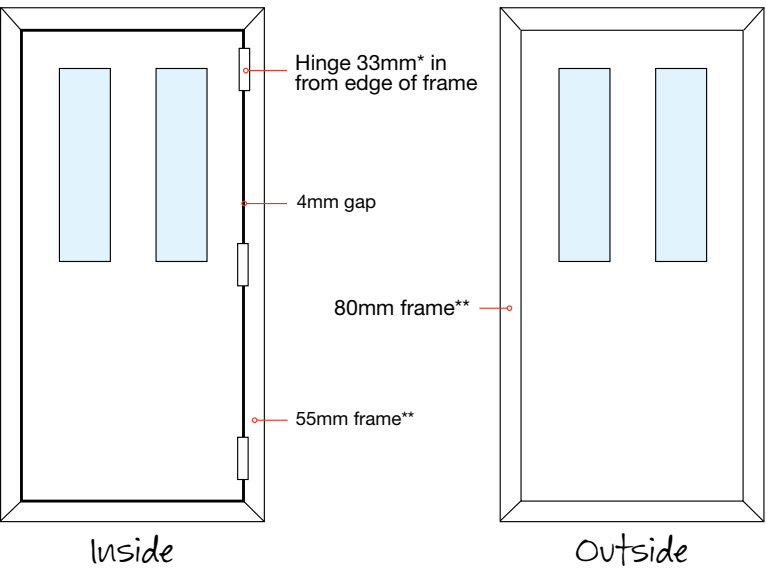
Transom height from bottom of door

Aluminium low-threshold		PVC-U bottom	
Min	Max	Min	Max
1945	2054	1971	2080

Dimensions to centre of transom. Doors over 2750mm will have separate top lights

Door measurements

Example shows EWS031 outerframe



* When using EWS032 frame, hinges are set 18mm in from the edge of the outer frame

** When using EWS032 frame, sizes are 15mm smaller on both internal and external faces

Interior door leaf

Leaf width = overall door width less 118mm

Exterior door leaf

Opening width = overall door width less 180mm

When open at 90°, the door edge protrudes 20mm into the opening

Glazing sizes

All units 4/16/4 toughened

The Bradbourne Right and left eyebrow cassette 203mm x 912mm	The Brassington Half moon cassette R279mm x 250mm	The Bretton Mid panel cassette 202mm x 578mm	The Chatsworth Twin vertical cassette 203mm x 912mm	The Chelmorton 2 x half moon cassettes R279mm x 250mm	The Cromford Half glazed cassette 558mm x 912mm
The Hathersage Twin top cassettes 202mm x 154mm Mid panel cassettes 202mm x 578mm	The Litton 3 x twin top cassette 202mm x 154mm	The Middleton Diamond cassette 364mm x 345mm	The Thorpe Twin top cassettes 202mm x 154mm	The Winstar Half moon cassettes R279mm x 250mm Mid panel cassettes 202mm x 578mm	The Wirksworth 4 x twin top cassette 154mm x 202mm

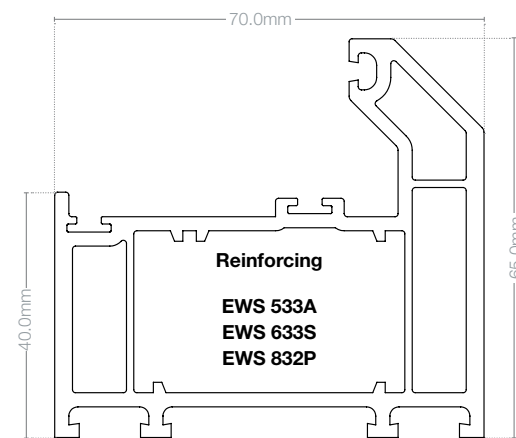


All together better

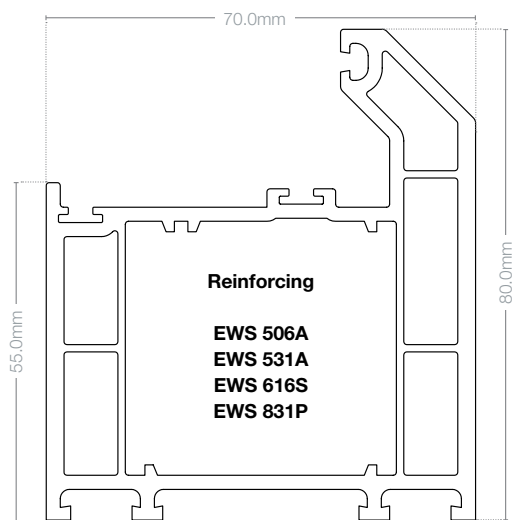
the dales collection

Composite door frame product chart

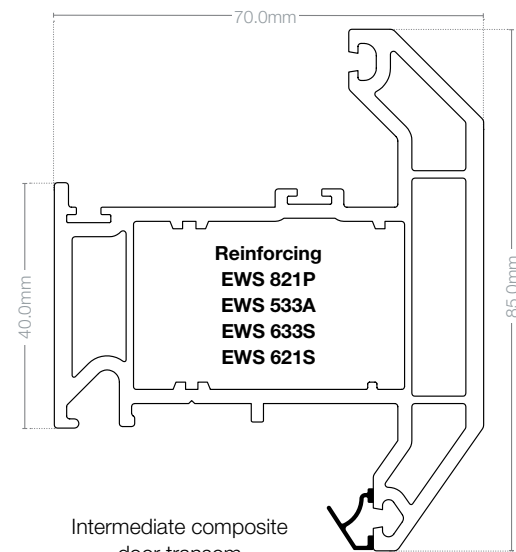
Main profiles



Intermediate composite door frame
EWS 032

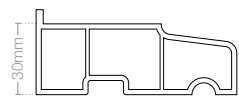


Large composite door frame
EWS 031

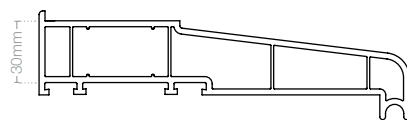


Intermediate composite door transom
EWS 033

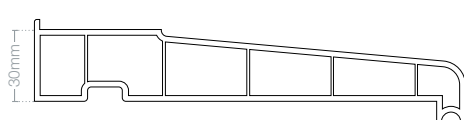
Cill components



85mm A type cill
AS 85

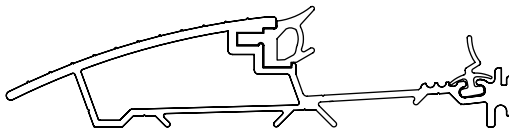


150mm A type cill
AC 150

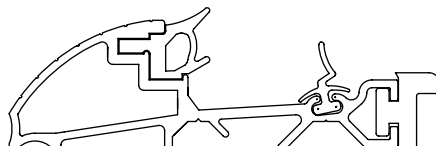


180mm A type cill
AC 180

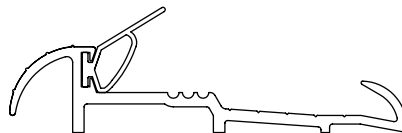
Thresholds



Part M low threshold
MDS 25



Inward open low threshold
MDS 83



Outward open low threshold
OUM 4

Outerframes **EWS 031** and **EWS 032** can also be used if PVC-U threshold is required.

Beads, gaskets and wool pile



EWS 7301
(glass)

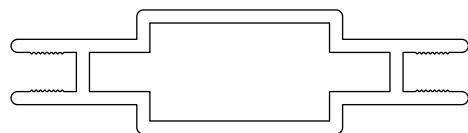


EWS 431G

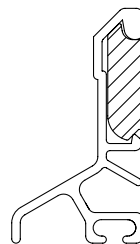


9257

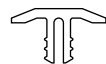
Aluminium components



EWS 510A

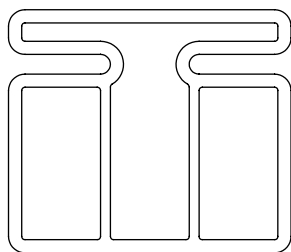


Weather deflector

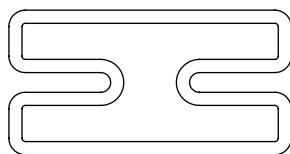


T capping section
EWS 107

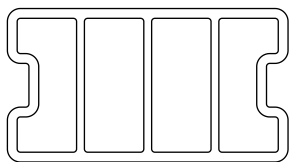
PVC-U Thermal Inserts



EWS 831P



EWS 832P



EWS 821P

Door styles



The Brassington



The Bradbourne



The Chatsworth
Solid also available



The Middleton
Solid also available



The Hathersage



The Cromford



The Wirksworth
Solid also available



The Thorpe
Solid also available



The Winstar



The Bretton



The Chelmorton



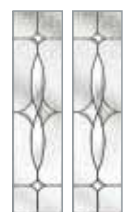
The Litton

Glazing styles (Examples shown for the Chatsworth style)



Solid

- No glazing



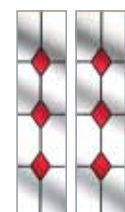
Andaman

- Triple-glazed
- No backing glass required
- Gold or Silver leading



Bevel Diamond

- Double-glazed
- Available in Clear Bevel, Red, Blue, Yellow, Green and Black
- Available with backing glass
- Standard leading only



Diamond

- Double-glazed
- Available in Clear Bevel, Red, Blue, Yellow, Green and Black
- Standard leading only



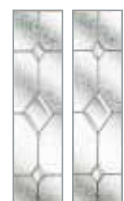
Diamond Classic

- Triple-glazed
- No backing glass required
- Silver leading



Eos

- Double-glazed
- Backing glass required



Kara

- Triple-glazed
- No backing glass required
- Gold or Silver leading



Lattice

- Double-glazed
- Backing glass required
- Standard leading only



Mene

- Double-glazed
- Backing glass required



Murano

- Double glazed
- Available in Red, Blue, Black and Green



Spirit

- Double-glazed
- Backing glass required
- Standard leading only



Standard Glass

- Available in Clear, Stippolyte, Minster, Contora, Everglade and Cotswold

Colour options

Standard range



Frost White
on Frost White interior



Rosewood
on Frost White interior



Rosewood
both sides



Golden Oak
on Frost White interior



Golden Oak
both sides



Gothic Black
on Frost White interior



Berry Red
on Frost White interior



Derwent Blue
on Frost White interior



Heritage Green
on Frost White interior

Contemporary range (made to order)



Anthracite Grey



Slate Grey



Moondust Grey

Heritage range (made to order)



Eurocell Cream



Chartwell Green



Duck Egg Blue

Backing glass

Improve the privacy of the glass by selecting a backing glass from the range above or choose clear for a fully opaque finish. Not available with triple-glazed glass styles



Clear™



Stippolyte™



Minster™



Oak™



Charcoal Sticks™



Contora™



Cotswold™



Everglade™



Florielle™



Taffeta™



Pelerine™



Chantilly™



Mayflower™

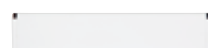


Autumn™

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Furniture

Letterboxes



White (standard)



Silver stainless steel



Gold stainless steel

Door knockers



Available in White, Gold and Silver (stainless steel). Available with or without integrated spyhole

Numbers



Available in Silver or Gold

Spy-hole



Available in White, Silver and Gold

Handles



Lever/Lever

Lever/Pad

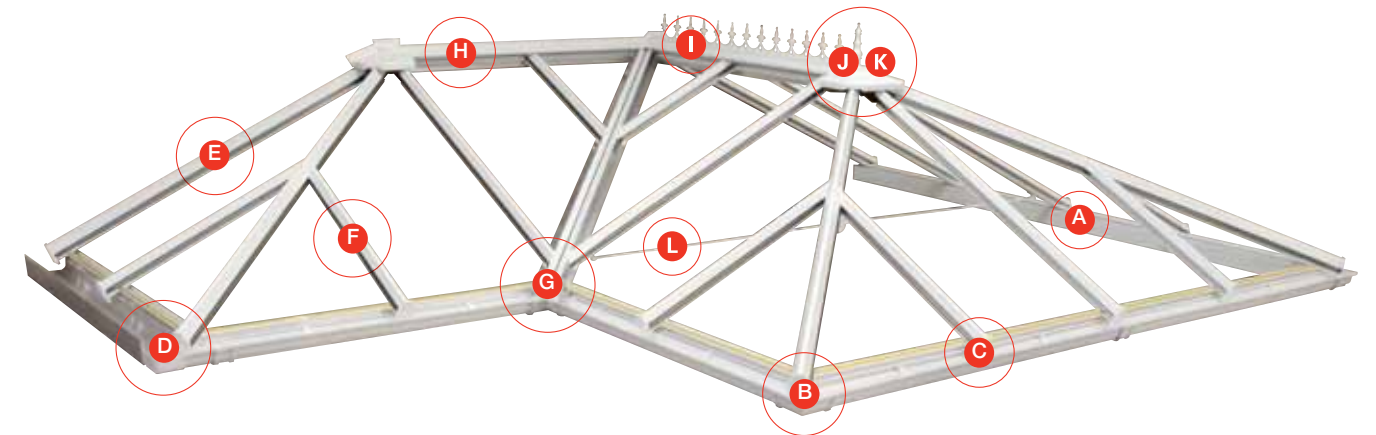
Available in White (as standard), Gold and Silver.

Chains



Available in Gold and Silver only

Conservatories



Whether you want the size and elegant looks of a traditional Victorian style conservatory or a compact lean-to outdoor room that won't take over the garden, we have a roof solution to meet your needs.

A Eaves beam

Incorporates a box section design for maximum strength and thermal efficiency. Available in either a fixed or variable pitch between 2.5° and 45°.

B Guttering

The gutter sits in front of eaves beam reducing any risk of overflow leakage and avoiding the need for having to fit special down pipe connectors.

C Rafter end assembly

Simple and neat clip up and over rafter bar end caps incorporate glazing stops for all roof designs.

D Box gutter

Silicone and tape-free box gutter adaptors for all weather installations. They are cut square to the external face of the frames below, rather than mitred over them minimising any risk of internal leakage.

E Gable-end rafters

Gable end bars for fixing to house walls are supplied with a patented built-in soaker system.

F Jack rafters

Adjustable fixing blocks link the hip bar to the jack rafter providing installation flexibility to ensure fast and neat water tight rafter connections.

G Valley assembly

Fully adjustable and linked valley wing system accommodates all pitch combinations while providing strong and effective watertight installations.

H Wall plate

Variable angle wall plate capable of pitches between 2.5° and 45°, and glazing in either 25mm or 32mm polycarbonate and 24mm glass.

I Ridge top capping

Ridge top capping can be fixed into place before final glazing, providing easy access for sealing and lead work. Fully foiled ridge top capping for all woodgrain finishes to ensure consistent aesthetics.

J Ridge assembly and spider bars

Patented ridge end bung that simply bolts down around the spider assembly and onto the glazing panels, reducing any risk of water ingress and overcoming the need for silicone sealing.

K Finials and crestings

Moulded PVC-U or aluminium finials and crestings provide long-term visual appeal.

L Tie bars

When necessary, tie bars directly attach to the underside of the ridge - requiring no pre-preparation to the ridge under cladding.

Conservatories



Eurocell can help you design contemporary bespoke conservatories

Features and benefits

Roof

- ▶ Roof pitches between 2.5 -45° in 24mm glass or 25/32mm polycarbonate
- ▶ Patented ridge end sealing assembly reduces the risk of water ingress and overcomes the need for silicone sealing
- ▶ Incorporates glass retention system as standard on every roof design
- ▶ The ridge top cap can be fitted and lead work complete before glazing making it quicker and easier for installers to obtain water tight installations
- ▶ Aesthetically designed, maintenance-free aluminium or PVC ridge cresting and finials

- ▶ Fully foiled ridge top capping for all woodgrain installation

Glazing bars

- ▶ A built in rafter gutter system is supplied as standard for neat and leak free lead flashing back against house walls
- ▶ Jack rafter locations allow four way adjustment on-site to ensure neat connections
- ▶ Simple and neat clip up and over rafter end caps. Great for box gutters or where access is limited

Box gutters

- ▶ High strength standard box gutters never require additional strapping even for glass

- ▶ Silicone free box gutter adaptors make for easy leak free all weather installation
- ▶ Box gutters are cut square to the external face of the frames below rather than mitred over them minimising any risk of internal leakage

Guttering

- ▶ Ogee guttering sits clear in front of eaves beam reducing any risk of overflow leaks

Colour options

Standard colour options



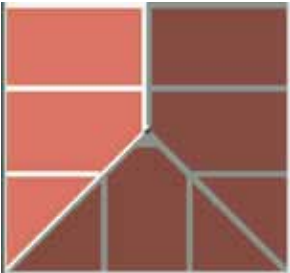
Other colours, including **Irish Oak**, **Grey**, **Black**, and **Chartwell Green** are available to order on extended lead times

Styles



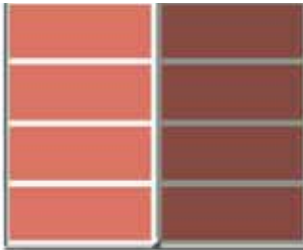
Victorian style

The Victorian conservatory roof features classical styling to create an eye-catching addition to any property. It has a distinctive multi-faceted projection, with a choice of three or five facets.



Edwardian style

With its bold square-fronted projection, this style of conservatory is styled to reflect the elegant and dignified simplicity of the Edwardian era.



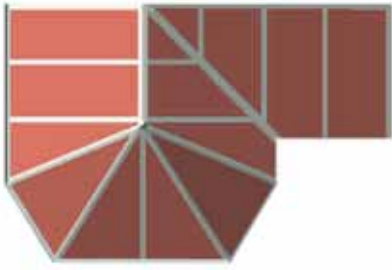
Gable-ended style

Featuring a projection in the same shape as the gable end of a conventional house, with the vertical end wall meeting the ridge of the roof, this style maximises available space.



Lean-to style

This classic style is the cost-effective way to add a spacious conservatory to your property designs.



P-shaped style

The combination of two conservatory styles (such as the lean-to and Edwardian) offers greater flexibility and a multi-functional space.



Bespoke designs

Looking for something different to traditional conservatory styles? Eurocell can help you design bespoke conservatories. Contact our technical team for more information. Request a contemporary conservatory concepts brochure on **0800 988 3047**

Conservatories

New products now available

Lusso faux-orangery roof



Lusso orangery-style roof incorporates original architectural features like corbels that retain the traditional appeal of orangeries from centuries past.

Featuring an elegant internal pelmet, Lusso adds an aesthetically pleasing architectural focal point to the internal roof perimeter.

As well as creating a faux orangery style, Lusso's continuous box-section pelmet allows incorporation of subtle HD (High Definition) LED downlights to create a more ambient internal environment and a higher perceived value with homeowners.

Lusso is offered in an extended choice of painted finishes, including Chartwell Green, Black and Grey. Irish Oak foil finish is available to special order.

Equinox™ tiled roof system



If you're looking to specify a conservatory roof that offers greater thermal efficiency, with U-values as low as 0.15, and lower noise levels than conventional conservatory roofs, while complying with all Building Regulations – Equinox is the solution.

The roof can be fitted with slate-style tiles or standard tiles in a range of colours to complement any property. The internal surface of the roof can be finished with a modern plasterboard or tongue and groove timber ceiling, creating the look and feel of a conventional home extension.

New products now available

Skypod®



Pitched PVC-U skylights flood interiors with light, whilst offering exceptional energy efficiency performance

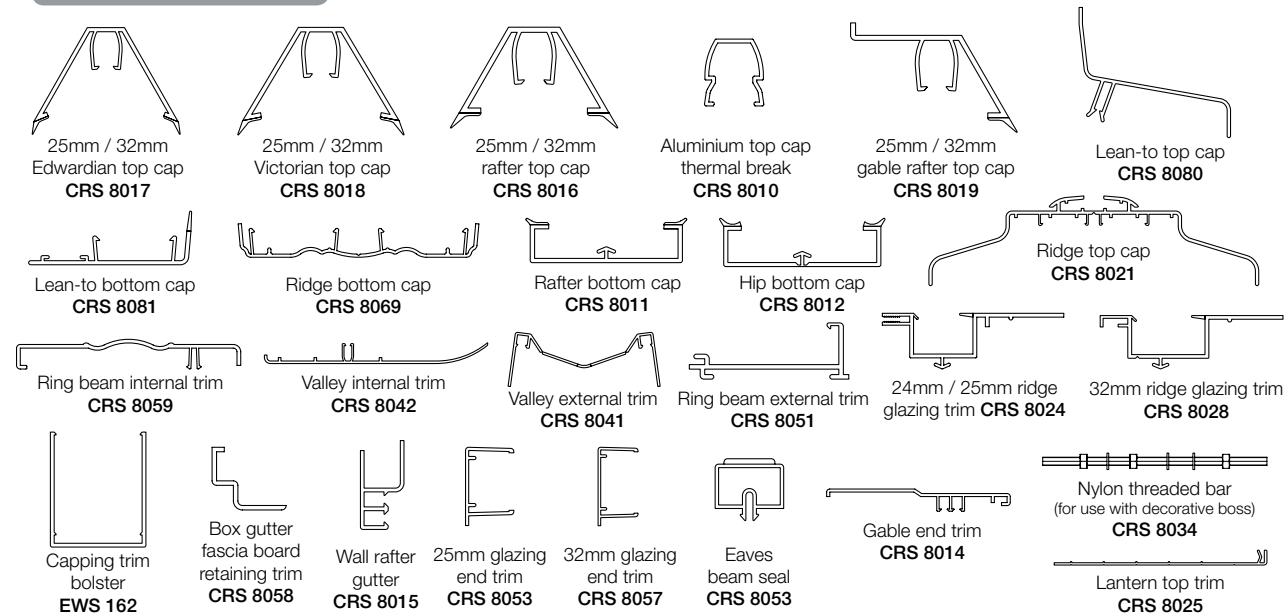
Create inspiring new living spaces that are flooded with natural light, and discover a stunning addition to any home that offers more than superb contemporary looks.

Compared with aluminium skylights, the innovative PVC-U Skypod® delivers a number of key benefits. It looks better, providing the perfect match for your customers' existing PCV-U windows. The Skypod is also more cost-effective than aluminium skylights or conservatory roof systems.

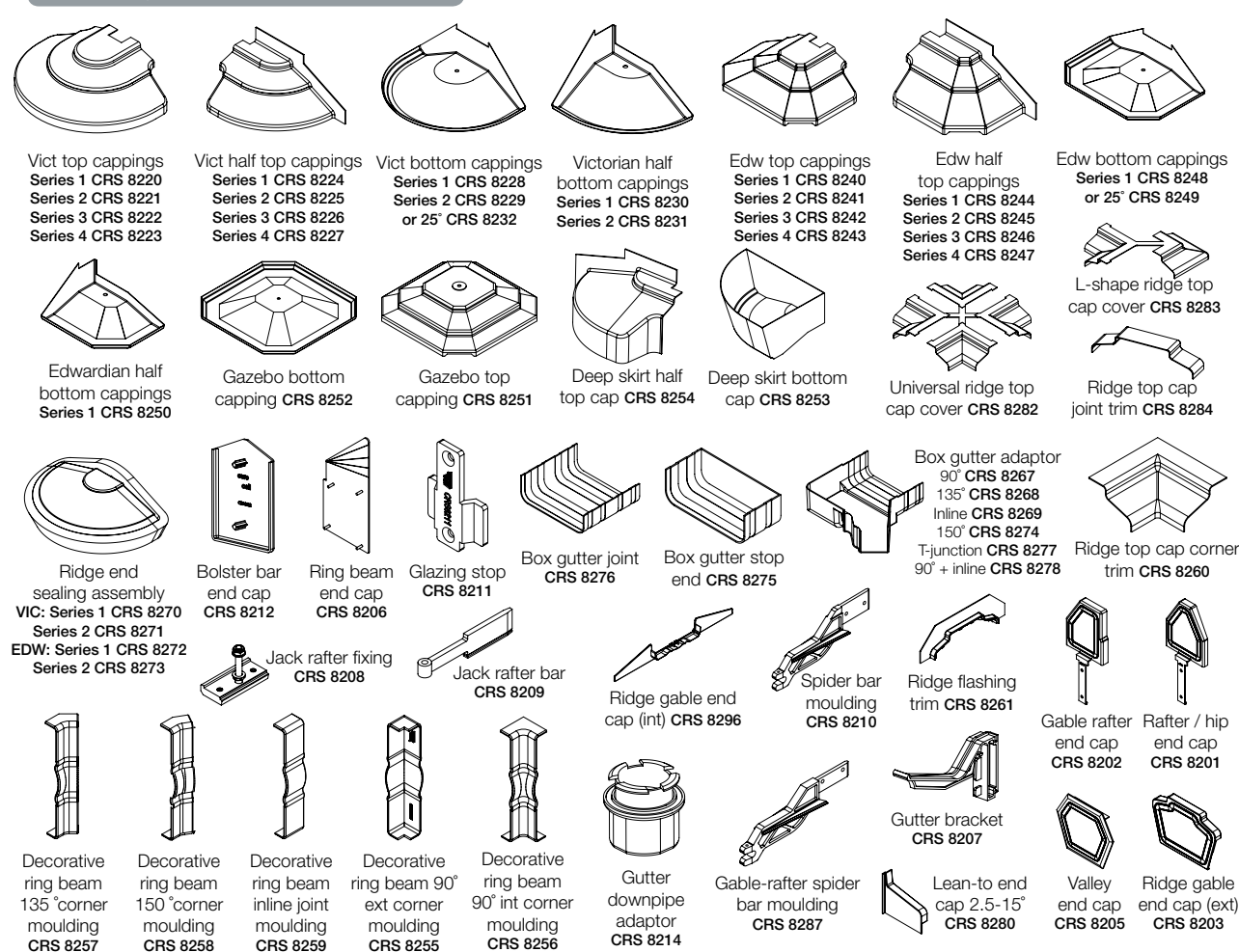


- ▶ An outstanding contemporary design that adds height and volume to a room
- ▶ Clean lines - there's no need for crestings or finials, while a unique spider glazing bar cap maintains the sleek appearance
- ▶ Exceptional energy efficiency with a U-value of 1.0
- ▶ A wide range of sizes and colours
- ▶ Variable pitch angles from 5-15°

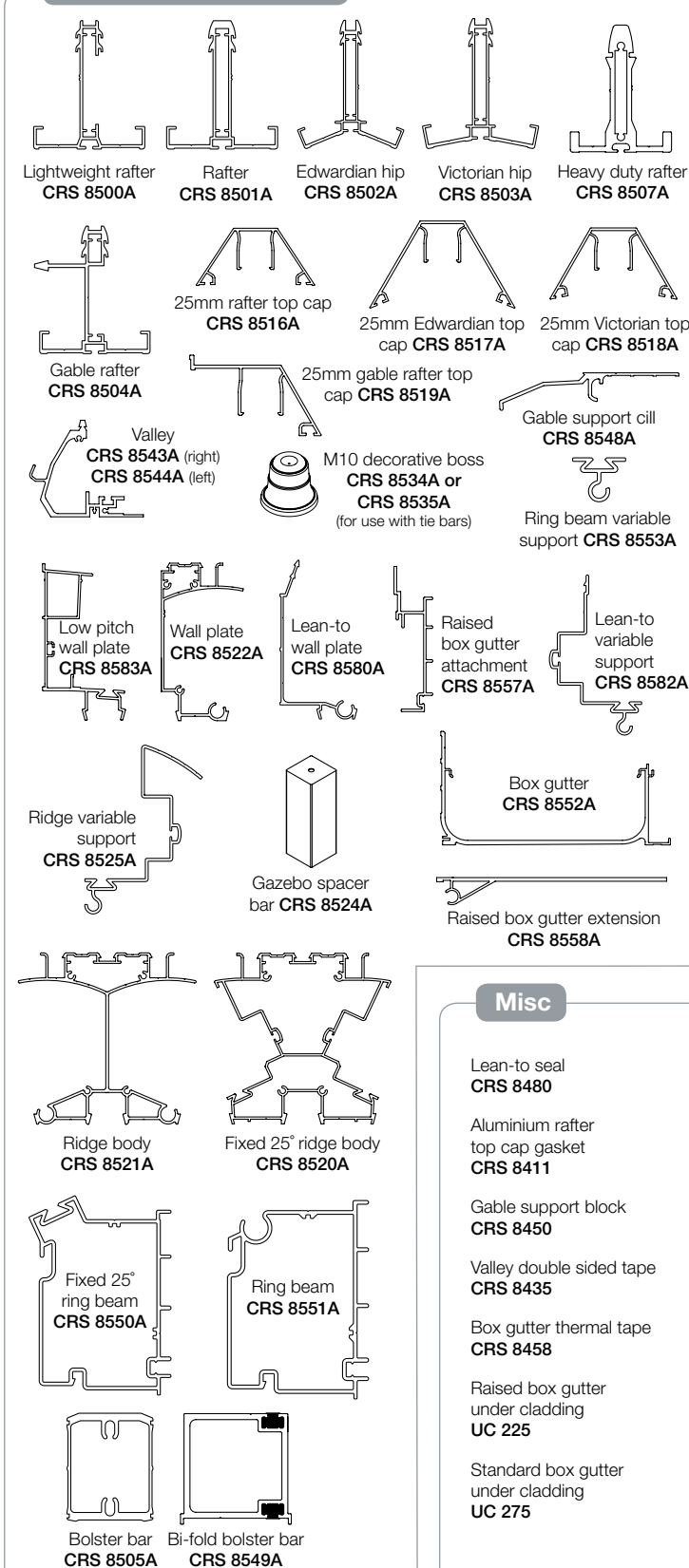
PVC-U components



Mouldings and other components



Aluminium components



Misc

Lean-to seal **CRS 8480**

Aluminium rafter top cap gasket **CRS 8411**

Gable support block **CRS 8450**

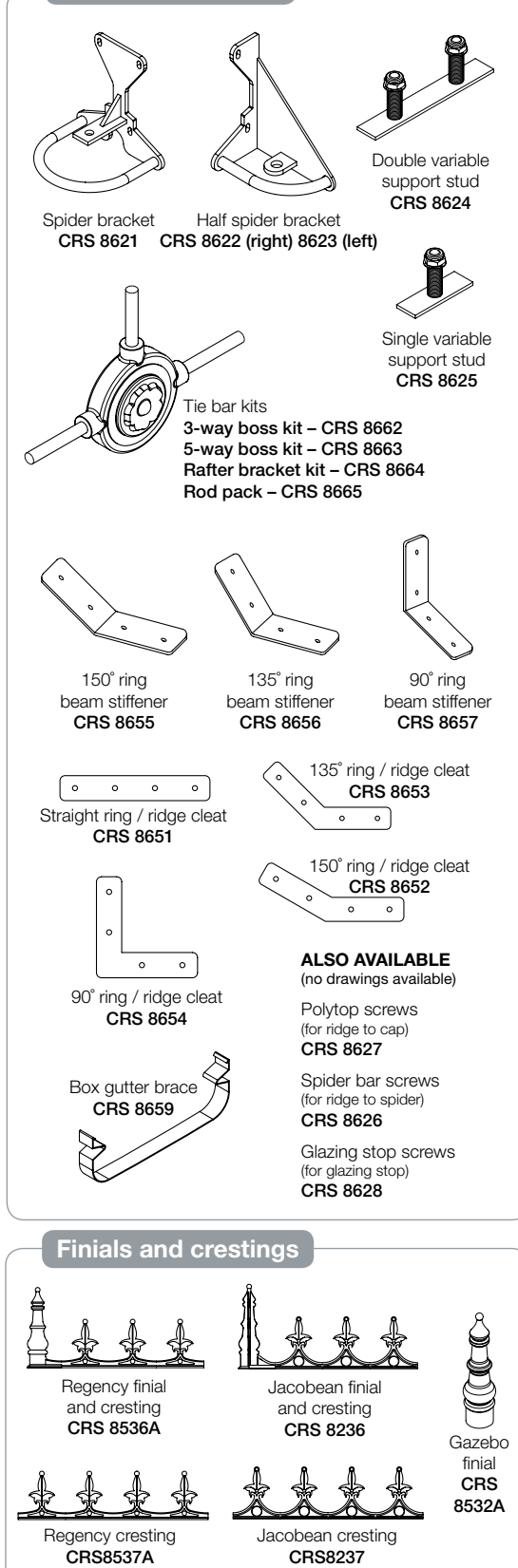
Valley double sided tape **CRS 8435**

Box gutter thermal tape **CRS 8458**

Raised box gutter under cladding **UC 225**

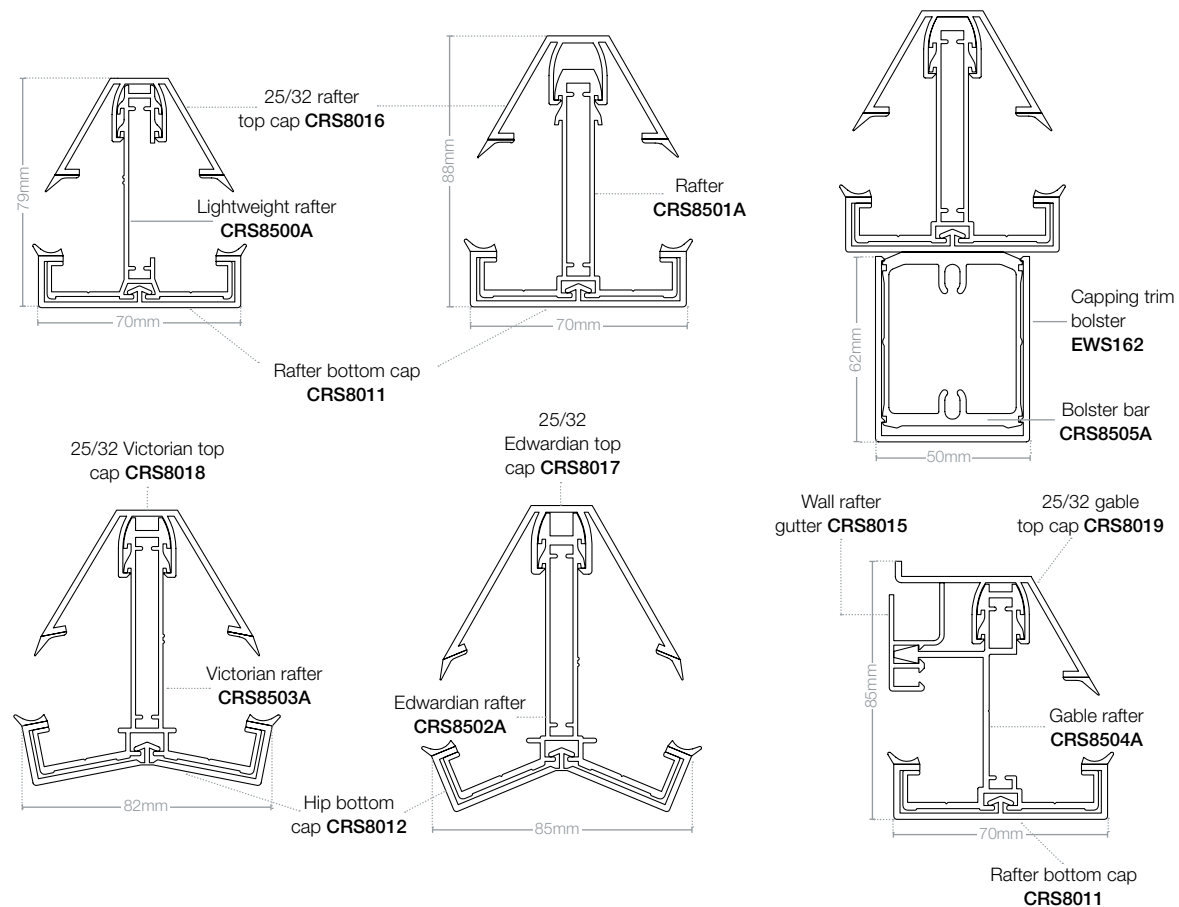
Standard box gutter under cladding **UC 275**

Steel components

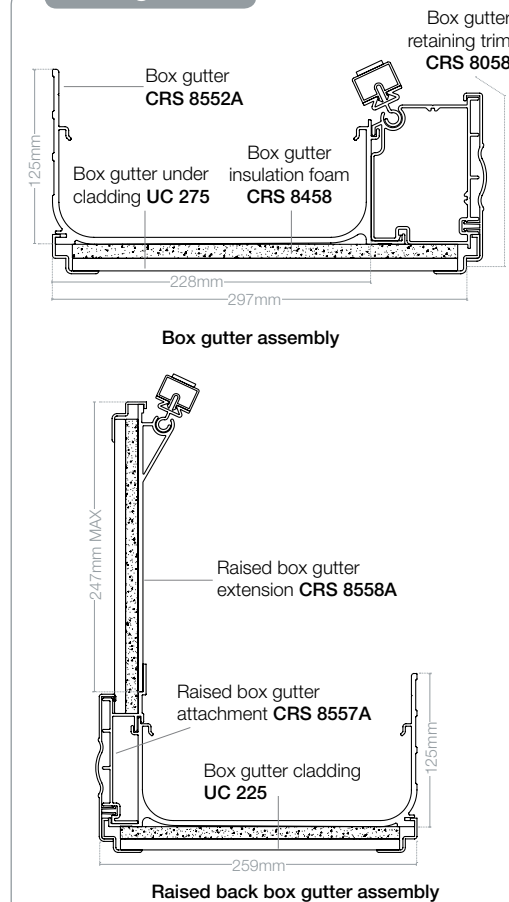


Finials and crestings

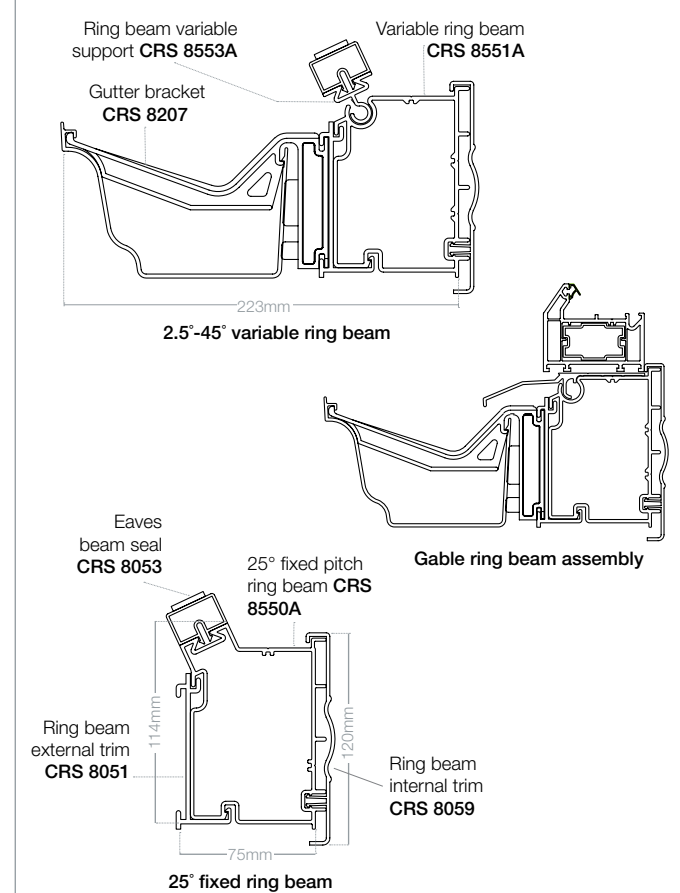
Rafter and hip assemblies



Box gutters

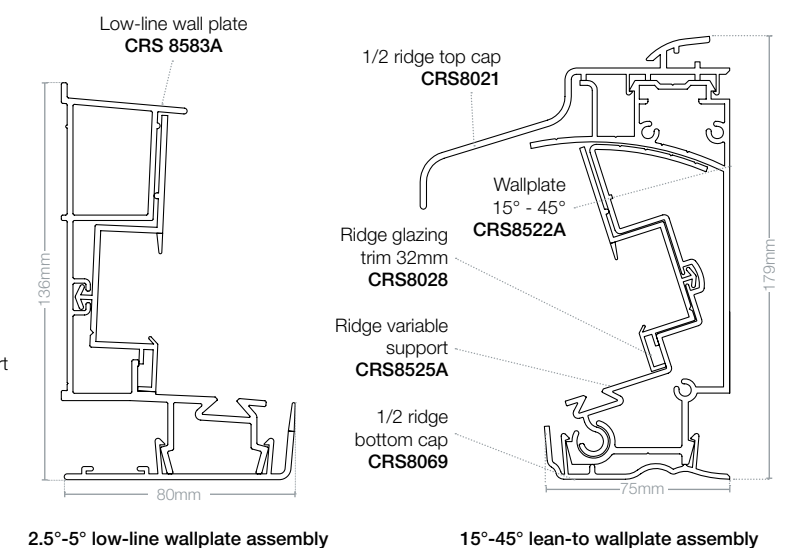
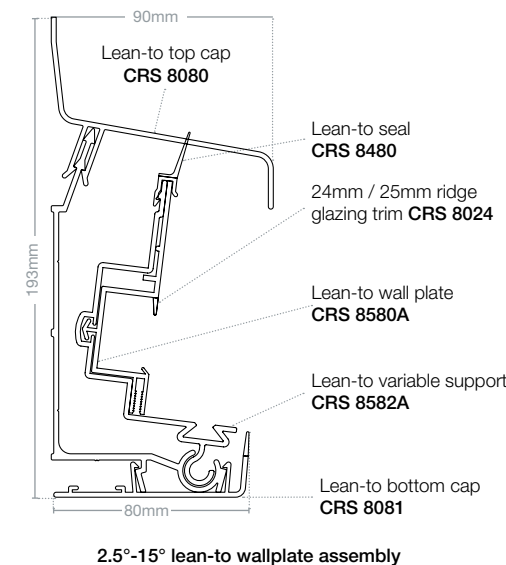
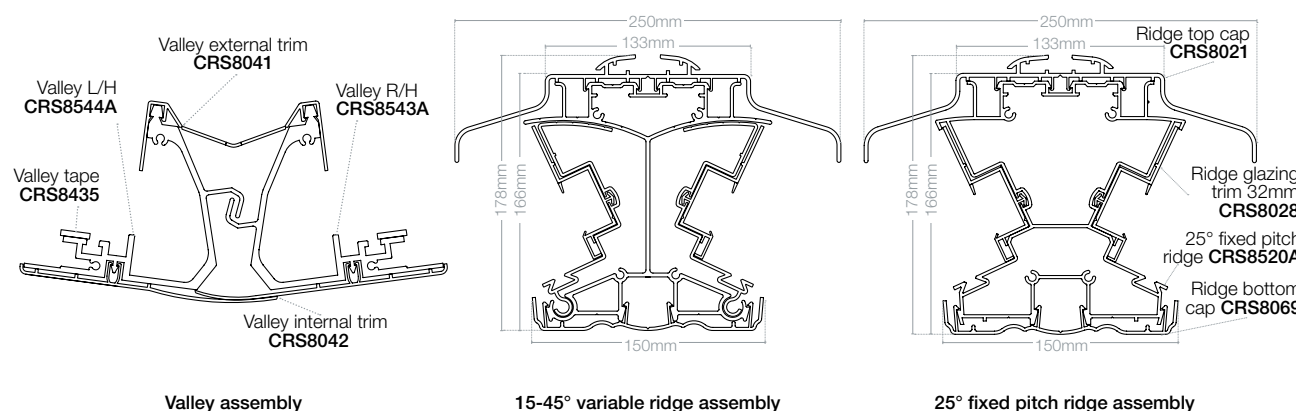


Ring beams



Lean-to wallplates

Valley and ridge assemblies



PVC-U profiles technical information



Material properties

Material property	Requirement	Achieved
Charpy impact strength	12 Kj/m	Pass
Tensile yield stress	38 Mpa	Pass
Modulus	2250 Mpa	Pass
Tensile impact @ 23°C	600 Kj/m ²	Pass
Tensile impact @ -10°C	400 Kj/m ²	Pass
Vicat softening temperature	75°C	Pass
Thermal stability	85 mins	Pass
Heat reversion	2% frames 3% beads	Pass
Heat ageing	No bubbles /cracks / delamination	Pass
Low temperature impact (10°C)	No cracking through surface	Pass

Materials

All materials are subjected to stringent quality control procedures, to ensure the highest standards are maintained at all times.

Description

External grade PVC-U extrusion compound.

Colours

White: RAL9003
Cream: RAL1015*

Application

PVC-U window profiles and glazing beads.

Physical properties

(Extruded profile samples)
BS: 2782 Test Methods

Reinforcement

Galvanised steel to BS 1449:Part 1 (CR2) and BS 2989 (Z2, Grade C). Aluminium alloy to specification 6063 or 6082, BS 1474:1987.

* closest match

Minimum and maximum sizes

For windows and doors



System	Width (mm)	Height (mm)
Casement windows (top hung) Espag	Max: 1200 Min: 320	Max: 1350 Min: 375
Casement windows (side hung)	Max: 750 Min: 400	Max: 1500 Min: 320
Tilt and turn windows	Max: 1500 Min: 550	Max: 1500 Min: 550
Reversible windows	Max sash weight 60kg Width must not exceed height	
Vertical sliding sash windows	Max: 1600* Min: 400 <small>*1250 for PVC-U TI</small>	Max: 2400* Min: 640 <small>*1500 for PVC-U TI</small>
Residential doors (outer to outer)	Max: 1000 Min: 800	Max: 2300 Min: 1800
French doors (outer to outer)	Max: 2000 Min: 1200	Max: 2300 Min: 1800
Aspect panoramic doors	Max: 6000 Min: 1200	Max: 2300 Min: 1800
All fixed sizes (fixed)	Max: 3000 (combined width & height 5400)	Max: 2400

Wind loads

The dimensions given (left) are the recommended minimum / maximum sizes for the relevant Eurocell products.

If the windows or doors to be manufactured are outside these sizes please consult Eurocell's technical department.

Safety glazing



1. The following locations may be considered 'critical' in terms of safety:

- i Between finished floor level and 800mm above that level in internal walls and partitions (diagram 1).
- ii Between finished floor level and 1500mm above that level in a door or in a side panel, close to either edge of the door (diagram 1).

Reducing the Risks

2. Glazing in critical locations should either:

- i Break safely, if it breaks (paragraph 3)
- ii Be robust or in small panes (paragraph 4)
- iii Be permanently protected (by screens and rails).

Safe Breakage

3. Safe breakage which, in practice is concerned with the performance of laminated and toughened glass, is defined in BS 6206: 1981 Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings: clause 5.3. and is based on an impact test which requires the result of the impact be limited to creating:

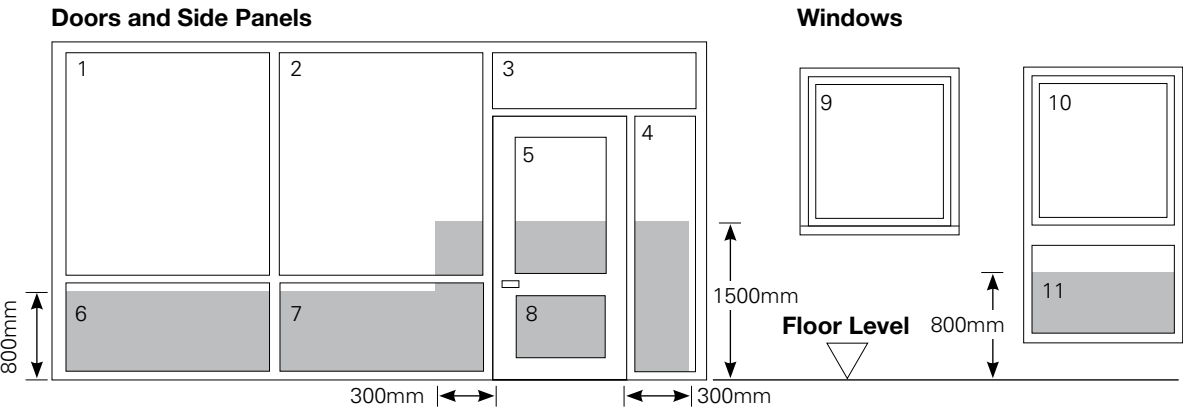
- i A small clear opening only, with a limit to the size of the detached particles, or
- ii Disintegration, with small detached particles or
- iii Breakage resulting in separate pieces that are not sharp or pointed.

Robustness

4. Some glazing materials, such as annealed glass, gain strength through thickness, others such as polycarbonates or glass blocks are inherently strong. Some annealed glass is considered suitable for use in large areas forming fronts to shops, showrooms, offices, factories and public buildings.

Diagram

Critical locations in internal and external walls



Shaded areas show critical locations to which requirement N1 applies (ie. glazing in areas numbered 2,4,5,6,7,8,11).

This data is provided for general information and to help assess what level of acoustic dampening is required of the glazed unit in the installation. More information can be found in the Building Regulations

Noise levels



Noise situation	Distance from window to centre of road (metres)	Outside sound intensity (dBA)
Motorway 3 - 5000 vehicles per hour	35	70
	100	60-70
Main town road or secondary road outside in a built up area	10	70
	35	66-70
	100	61-65
Secondary road in built up area	10	66-70
	35	61-65
	100	56-60
Residential road junction 50 - 200 vehicles per hour	10	66-70
	25	61-65
	35	56-60
	100	51-55
Residential road junction 50 vehicles per hour	10	61-65
	25	56-60
	35	51-55

This data is provided for general information and to help assess what level of acoustic dampening is required of the glazed unit in the installation. This information can be found from the glass manufacturers.

Location	Recommended max level (dBA)
Residential:	
Bedrooms	30 - 40
Living Rooms	40 - 45
Offices:	
Private offices / small conference	40 - 45
Large offices	45 - 50
Educational:	
Classrooms (15-35 people)	40
Classrooms (35+ people)	35
Music and drama rooms	30
Health & Welfare:	
General wards	55
Small consulting rooms	50
Diagnosis rooms	45

Means of escape
and protection from falling, collision and impact



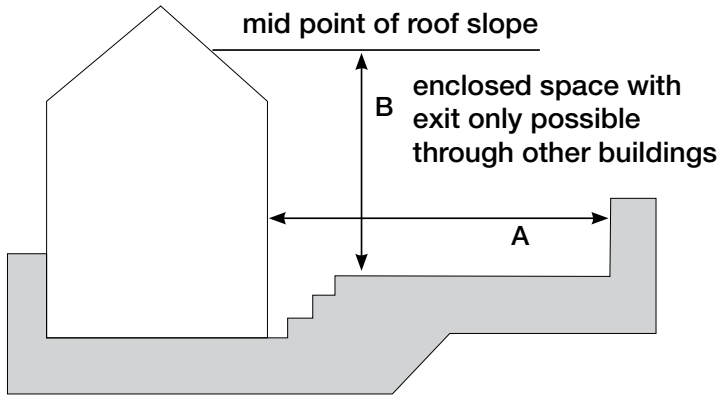
Emergency egress

Any window provided for emergency egress purposes and any external door provided for escape should comply with the following conditions:

- ▶ The window should have an unobstructed openable area that is at least 0.33m² and at least 450mm high and 450mm wide (the route through the window may be at an angle rather than straight through). The bottom of the openable area should be not more than 1100mm above the floor.
- ▶ The window or door should enable the person escaping to reach a place free from danger or from fire. This is a matter for judgement in each case, but in general a courtyard or back garden from which there is no exit other than through other buildings would have to be at least as deep as the dwelling is high to be acceptable, see diagram.

Important information

Approved document K, Protection from falling, collision and impact specifies a minimum guarding height of 800mm, except in the case of a window in a roof where the bottom of the opening may be 600mm above the floor.



Ground or basement storey exit into an enclosed space

Depth of back garden 'A' should exceed the height 'B' of the house above ground level for it to be acceptable for an escape route from the ground or basement storey to open into the garden.

Condensation

Reducing condensation on PVC-U windows and doors



What is condensation?

Condensation is water droplets that form on cold surfaces when humid air is in contact with it.

As our homes become more thermally efficient (with fully insulated walls, lofts and A-rated windows), there is less air movement / air changes happening – which results in any moisture being produced becoming trapped within a property.

How is it caused?

When moisture in the air comes into contact with a cool surface, it condenses into water vapour, appearing as condensation. This moisture content is known as relative humidity (RH).

Internal condensation

An average family can produce about 18 pints of moisture a day, which disperses into the warm air in our houses. This can be caused by simply drying clothes

on radiators, using unvented tumble dryers, boiling a kettle, running a bath, taking a shower, cooking, washing, using gas heaters and even breathing.

The higher the temperature in our houses the more moisture this warm air can hold, if this RH rises too high, mildew will form in all areas of the home.

External condensation

Condensation can form on the external surface of some double glazed units when the surface temperature of the glass drops below the outdoor dew point temperature.

This is actually a sign that the windows are insulating the property well, and preventing heat from escaping through them – which is good news for heating bills!

How do we prevent it?

To prevent internal condensation, the amount of moisture within a property

must be reduced – ventilation is key. This can be done in many ways: avoid drying clothes on radiators (but if you must, try to confine this to one room, close the door and open a window), use a tumble dryer that has a condenser (if not, ensure that it is fitted with an extraction venting kit to expel the steam outside), ensure that the bathroom door is closed and the window opened when taking a bath or shower.

If condensation is forming in unheated rooms and conservatories, try to provide some form of heating to these areas in cold weather, or keep doors to these areas closed to eliminate the possibility of moisture-laden air entering.

When it isn't practical to open a window or door, a de-humidifier unit will extract the moisture from the air without making the room colder.

Coloured profiles

For bespoke projects



Meet the growing demand for coloured profiles with Eurocell – offering you a spectrum of possibilities

In addition to the standard colours and foils we offer for our products, Eurocell offers special colours available on extended lead times.

Coloured PVC-U windows are typically used in large multi-storey office blocks, industrial units, hotels, restaurants etc, and are a great alternative to powder coated aluminium. Coloured PVC-U products not only offer a considerable cost saving over aluminium, but are also much more thermally efficient, which in light of the revised building

regulations Part L, is now a major factor in which products to choose.

We now offer a Made to Order range, with more than 45 superb colour options. There's everything from the beautiful natural appearance of woodgrain finishes to cool greys, greens and blues.

Made To Order colour lead times have been halved to just three weeks. Any other Renolit foils (excluding Classic) are also available to order on extended lead times.



Bespoke Grey commercial project



Curtain walling and windows in Red

Surveying and installation

Essential working practices for quality installations



Recommendations

The surveying and installation of PVC-U windows and doors are the most important elements of a contract. Incorrectly installed windows have a significant impact on technical performance and customer satisfaction.

As part of the BPF (British Plastics Federation), Eurocell strongly recommends compliance with the Code of Practice for The Survey of PVC-U Windows and Doors sets. Ref 347/1:1995. As well as the Code of Practice for The Installation of PVC-U Windows and Doors Sets. Ref 348/1:1995.

Find out more information at www.bpf.co.uk

These documents cover all aspects of surveying and installing PVC-U windows correctly, including:

- ▶ Preliminary checks when surveying the property
- ▶ Wind loads on window for future design
- ▶ Load bearing windows
- ▶ Bay windows
- ▶ Fire escape windows
- ▶ Preparing openings
- ▶ Fixing methods
- ▶ Use of polyurethane foam for fixing
- ▶ DPC details
- ▶ Glazing and packing
- ▶ Sealing
- ▶ Final inspection checks
- ▶ Cleaning and maintenance

Compliance with these documents leads to good working practices and quality installations

Security

For your peace of mind



All together better



Window security specifications

BS 7950:1997 is the Specification for Enhanced Security Performance of Windows for Domestic Applications.

The specification details the test criteria for manufactured windows to withstand pre-determined forces. British Standard BS7950 is the basis for the 'Secure By Design' requirement for windows.

All Eurocell window systems have achieved BS7950 and been awarded Kitemark Licence number KM 52187. Many of the Eurocell nationwide network of window fabricators have also gained this accreditation in their own right. Others (who may not have actually had their window tested) can still manufacture windows to meet this standard by following strict guidelines outlined by Eurocell. In this circumstance, only the hardware used by Eurocell to pass BS7950 may be specified.

Plus, fabricators can only claim that they can manufacture windows to meet BS7950 standards and not that they are fully BS7950 accredited.

Door security specifications

Eurocell has achieved these standards for its doors:

PAS 24-1 Enhanced Security Performance Requirements For Door Assemblies

PAS 23-1 General Performance Requirements For Door Assemblies

BM TRADA

Secured By Design (subject to specification)

Case studies

Eurocell in action



gentoo
Living for a new generation

A zero-carbon solution was achieved with the **eurologik70** window system and Cavalok cavity closers

Project: Eurocell zero-carbon solution

Client: Gentoo

Eurocell windows with a U-value of 0.8W/m²K have been specified by Gentoo for its Code for Sustainable Homes Level 6 development in the North-East.

Achieving such a low U-value means these homes situated in Houghton le Spring, Tyne and Wear, meet both the carbon reduction requirements of UK Building Regulations to 2016 and the sustainable design criteria of the Code for Sustainable Homes up to Level 6, zero carbon – all in one product.

The architects at Gentoo specified windows fabricated using the Eurocell **eurologik70** profile system with 100% post-consumer recycled PVC-U Thermal Inserts for the two Level 6 properties on the development.

PVC-U Thermal Inserts enable lower U-values and higher Energy Index Ratings to be achieved. They can also

remove the need for more expensive low-iron glass, making the highest energy-rated windows more cost effective and therefore accessible for even more construction projects.

As part of its comprehensive zero-carbon solution, Eurocell also supplied Gentoo with an innovative new Cavalok cavity closer, based on the proven BigBlok system. Made from 100% post-consumer recycled PVC-U, it allows the window to be structurally fixed over the wider cavities required on low carbon build programmes, whilst avoiding the need for strapping back over large spans to inner structures.

Walls on the Gentoo Level 6 properties have an overall thickness of 502mm, with 300mm EPS bead filled cavity, which achieve a U-value of 0.10W/m²K. Cavalok cavity closers support the triple-glazed windows over a 300mm cavity.

"We were extremely impressed with the ease in which we were able to specify a zero-carbon window and structural cavity closer solution from Eurocell. It is pleasing to know that both ranges use post-consumer recycled PVC-U to maximise thermal performance, particularly as creating a sustainable zero carbon development was our main priority."

Verity Moss
Project Architect at Gentoo



Project: Martin Maretaine showhouse
Client: Barratt Homes

Barratt has added the wow factor to its Martin Maretaine showhouse in Northampton (built to Code for Sustainable Homes Level 3), with the installation of two Aspect panoramic doors from Eurocell.

A 2.7m wide Aspect folding sliding door system was supplied for the gable end of the Eurocell Victorian conservatory. The flush internal threshold specified created a seamless link between the two rooms when the doors are open.

Homebuyers who visit the showhouse will now have the option of choosing the conservatory for their own property (space permitting), and Barratt have already reported strong interest from visitors.

Aspect sets new standards for PVC-U bi-fold doors by offering market-leading aesthetics, unique design features and long-term low maintenance. What's more, it has also achieved the PAS 23/24 accreditation for enhanced security.

Unique, patented D-shaped handles allow the doors to fold back flatter, and they incorporate an anti-mishandling feature that prevents shoot bolts being engaged whilst the door is open and damaging the door and the floor covering – the number one cause of rectification call outs.

"As soon as we were presented with Aspect we could see that it provided us with a modern alternative to French and in-line sliding patio doors for our more style conscious home buyers. We also liked the fact it offered better value and could be used for various applications"

Julian Kirby
Senior Buyer at Barratt Northampton



Eurocell eurologik70 windows with traditional Georgian bars to match the building architecture

Project: Weston Mill Community Primary School, Plymouth
Client: Plymouth Local Education Authority

Weston Mill Community Primary School at Camels Head, Plymouth, has been refurbished using the market-leading Eurocell **eurologik70** window system.

The existing timber windows at the school were showing signs of deterioration and specifiers from Plymouth Local Education Authority therefore decided to replace them with PVC-U frames. The specifiers chose PVC-U because they considered it offered a low-maintenance alternative to the timber windows as well as being more cost-effective.

The Eurocell **eurologik70** ovolo system was specified because, in addition to meeting value for money criteria, the decision makers felt it offered better sightlines than the alternative systems shortlisted. This was particularly important as the replacement frames had to retain the original appearance of the 1860's building.

eurologik70 achieved this requirement by offering fully bevelled profiles that visually create a slimmer frame section, giving the impression of a larger glass area.

Recently completed, the refurbishment now provides pupils with much warmer and more comfortable classrooms as well as helping to make significant savings on the school's heating bills – thanks to **eurologik70**'s multi-chambered cross-section that helps to lock heat inside the building.

"Our local education board and governors are highly delighted as it has saved a huge amount on heating bills"

Mrs Smith,
Head Teacher at Weston Mill



Miller



Artist impression of a Miller development featuring Eurocell roofline and windows

Project: Miller Homes partners with Eurocell **Client:** Miller Homes

Miller Homes has become the latest housebuilder to take advantage of the complete building plastics solution from Eurocell. The company has entered an agreement to source its full range of roofline products from Eurocell branches – this will be complemented by windows supplied by Eurocell fabricators around the UK.

The ability of Eurocell to offer a complete one-stop-solution of over 4,000 building plastics was a key reason for Miller Homes choosing to source from the company. So too was its 125+ branch network, which means there is an outlet in virtually every major town. This will save Miller Homes a huge amount of time in sourcing products either through local collection or free next day delivery by Eurocell.

The benefits for housebuilders that partner with Eurocell don't stop there. Miller Homes liked the fact it could source

perfectly colour matched windows from Eurocell fabricators, whichever part of the country its contractors are working.

Miller Homes had previously sourced through a variety of different suppliers, which resulted in duplication of administration and distribution resources. It also meant that stock from different suppliers had to be kept separate to ensure consistent colour matching on site.

Being able to source everything from a single supplier, such as Eurocell, ensures a perfect colour match throughout the property. As potential house buyers become more discerning, this will provide another valuable selling point for Miller Homes.

The housebuilder is the latest to take advantage of local delivery direct from the manufacturer. This is possible because Eurocell manufactures the majority of products offered through

its branch network, along with a full range of profile systems, which are available through fabricators nationally.

"It was a carefully considered decision to choose Eurocell and the benefits are huge. There are very few companies that have such a comprehensive offer as Eurocell, which will allow us to make significant efficiency savings."

Darren O'Reilly
Head of Procurement, Miller Homes



Eurocell profile systems were used to replicate the original aesthetics of this 1834 building

Project: The BRIT School for Performing Arts & Technology **Client:** The BRIT School

The BRIT School for the Performing Arts & Technology in Croydon, London is singing the praises of Eurocell window systems after we provided a very exacting architectural window solution.

The school, which was constructed in 1824, is notable for its famous students including Adele, Amy Winehouse, Jessie J, Leona Lewis and Katie Melua, amongst others.

The challenge with BRIT School was to maintain the original aesthetics of the building, which meant a wide variety of window styles had to be manufactured, including vertical sliding sash, arched, half moon, fixed lights, top hung and special-shaped. Eurocell and approved-fabricator Dorwin worked together to incorporate an unprecedented level of bespoke features and specifications into the replacement windows, including white

externally and black internally windows for the staging area of the school!

Also adding to the complexity on this project was a requirement for a number of large, elaborate Palladium style window arrangements to the front of the building. These comprised a large vertical sliding sash window centrally with two narrower sliding sashes each side. The Palladium style was completed with an arched fixed light above with two smaller quadrant windows each side.

Another challenge was a Building Regulations requirement for half hour fire-rating on all windows to the front East wing of the school. Our fabricator Dorwin was able to work with our technical team and use its extensive experience and key supply partnerships to present the main contractor with a solution to take to the client.





Project: UK's largest zero-carbon village
Client: Morris Homes

Eurocell Eurologik triple-glazed windows and fully recycled cavity closers have been specified by Morris Homes on the UK's largest zero carbon village in Peterborough.

Vista, in the Southbank area of the city, is a development of 295 zero-carbon homes designed to reduce energy emissions by 100% compared to an equivalent-sized standard housing development.

The Eurocell windows achieve a U-value of 0.8W/m²K, helping the properties meet the carbon reduction requirements of UK Building Regulations up to the 2016 zero carbon deadline.

Eurologik windows, Cavalok cavity closers and the other energy saving measures incorporated into the design will contribute to the Vista properties requiring 74% less heating per square foot, compared to the average UK home. Homebuyers will

not only feel these benefits in terms of more comfortable and healthier homes, but will delight in the fact that they save around £310 off their annual energy bills.

Morris Homes has demonstrated how sustainable developments, often perceived to be expensive, are now a real alternative for all developers, with two bedroom properties at the Vista site starting from just £139,000.

The Eurocell Eurologik triple glazed windows were specified in a grey woodgrain finish to complement the contemporary style of the two and three bedroom properties. They feature Eurocell 100% post-consumer recycled PVC-U Thermal Inserts, which enable lower U-values and higher Energy Index Ratings to be achieved.

Cindy Vials, Regional Sales Director at Morris Homes, said: "The Eurocell

windows in grey create exactly the right contemporary appeal that homebuyers look for. We like the fact that the slim profile of the frames lets in the maximum amount of natural daylight – and you don't even notice that they have been specified to achieve zero-carbon."

The Cavalok cavity closer system is the UK's only BBA-approved 100% post-consumer recycled PVC-U cavity closer. The range offers a readymade solution for all levels of the Code for Sustainable Homes, up to Level 6, zero carbon, and higher levels of BREEAM. The range is suitable for cavities from 50mm to 300mm+ and is available in fire rated versions.

Mark Starford, Architect at Barnett North, the appointed practice for Vista, said: "The

Eurocell window and cavity closer solution is an integral part of helping us reduce energy emissions from these properties by 100% compared to an equivalent-sized standard housing development. We liked the fact that Eurocell was able to offer us a ready-made solution as well as demonstrating innovative use of post-consumer recycled PVC-U."

Eurocell offers a wide range of specially developed zero and low carbon window solutions that help housebuilders meet national targets to reduce UK carbon emissions from homes by 29% on 2008 levels ahead of 2020.

Eurocell has developed the largest and most advanced post-consumer PVC-U recycling facility in the UK, which is capable of processing up to 12,000 end-of-life PVC-U window frames per week.

"The Eurocell windows in grey create exactly the right contemporary appeal that homebuyers look for. We like the fact that the slim profile of the frames lets in the maximum amount of natural daylight – and you don't even notice that they have been specified to achieve zero-carbon."

Cindy Vials
Regional Sales Director, Morris Homes



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

