

evolve



PVC-U vertical sliding sash windows, bi-fold and patio doors,
manufactured to the highest quality standards

Evolve fully manufactured products

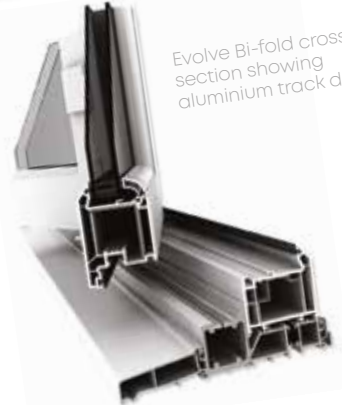
evolverange

Fully-manufactured products, made to order, proven quality, delivered fast



evolvebi-fold

- Stylish PVC-U bi-fold doors fully manufactured to order using quality Siegenia hardware
- 7 day turnaround on orders
- Free delivery up to 4m wide
- Available in 15 colour options



Evolve Bi-fold cross section showing aluminium track detail



evolvevs

- Traditional sliding sash looks with modern PVC-U benefits, A-rated as standard
- 7 day turnaround on orders
- Run through sash horn option
- Available in 16 colour options



Evolve VS in Irish Oak with run through sash horns



evolvepatio

- Versatile PVC-U patio doors available in 2, 3 and 4 pane options in widths up to 6m
- 7 day turnaround on orders
- Colour matched aluminium track
- Available in 17 colour options



Evolve Patio handles in Polished Gold finish

Specialist home improvement products,
perfectly designed for UK market applications

Evolve range PVC-U windows and doors are manufactured and CE Marked to ensure reliable supply of high quality value-added 'niche market' products, specially designed to satisfy UK home improvement requirements.



evolve^{vs}

Vertical sliding sash windows with authentic aesthetic appeal, providing all the low maintenance and high performance advantages of 21st century PVC-U window design.



evolve^{bi-fold}

Contemporary bi-fold doors that combine elegance with flexibility, allowing design of panoramic view wide-span door openings to create versatile living spaces.



evolve^{patio}

Classic space-saving patio doors that slide on high quality stainless steel tracks, delivering security, style and ease of use with convenient access to adjacent garden areas.



Delivery

Evolve range products are manufactured in Nottinghamshire with all operations carried out under ISO9001 quality management systems. Delivery with order-to-despatch service lead times as follows:

- Evolve VS windows - Guaranteed free delivery nationwide with 5-7 day turnaround.
- Evolve bi-fold and patio doors - We offer a 7 day turnaround on your order with FREE nationwide delivery on orders to fabricator premises for doors up to 4 metres in length. An additional cost applies if doors are over 4 metres in length or delivered direct to the installation site.

Please note that your earliest delivery date is dependent on your scheduled delivery day. Please also note delivery is to mainland United Kingdom only, for orders from outside of these areas customers must arrange collection.



PVC-U material benefits



Polyvinyl Chloride (PVC-U) is a major thermoplastic material, which finds widespread use in building, transport, packaging, electrical/electronic and healthcare applications. PVC-U has been in commercial production since 1933. It now accounts for about 20% of all plastic manufactured worldwide, second only to polyethylene. The UK produces approximately 500,000 tonnes of PVC-U per annum.

The recycling of PVC-U is relatively straightforward, as both production waste and post consumer windows can easily be recycled back into new energy efficient PVC-U products. Unlike some of our competitors we recycle our waste in the UK, meaning no transcontinental movement of product, which has a huge carbon footprint, defeating the whole point of recycling.

PVC-U is...

- Low maintenance
- Durable
- Economical and energy efficient
- Safe and secure
- Versatile
- Environmentally sound
- Recyclable

PVC-U windows can be recycled up to 10 times, with a life span of 400 years.

Quality & accreditations

Quality

Evolve range PVC-U vertical sliding windows, bi-fold and patio doors carry a 10 year guarantee. Manufacture and supply is carried out under certificated BS EN ISO9001:2000 quality management systems.

10
year

Guarantee

Evolve range PVC-U products carry a guarantee of up to 10 years.
Full details available on request.

Production techniques are largely automated and testing is computerised to ensure a consistently high quality product. Boasting the latest technologies and modern machinery, profine is able to deliver extruded PVC-U profiles which are consistent in colour, shape and finish.

profine is focused on finding new ways to design, produce and deliver products to its customers. Operational processes are continually evaluated to find improvements, reduce waste, identify problems and then define solutions quickly and systematically. All products undergo a wide range of QC inspections during and after the production process. All equipment is checked following every extrusion run and maintenance schedules are strictly adhered to.



Building Regulations Compliance

The sub-sections of Building Regulations Part L refer to different building types and itemise U-value thermal performance. Standards for refurbishment of existing buildings are more exacting and provide options for using WER 'whole unit' calculations in place of the established U-values.

Installed product	Part L	Building application	U-value
Windows, roof windows, rooflights, curtain walling and pedestrian doors	L1A	New dwellings	2.0W/m ² K
	L1B	Existing dwellings	1.6W/m ² K ¹
	L2A	New buildings other than dwellings	2.2W/m ² K
	L2B	Existing buildings other than dwellings	1.8W/m ² K [^]

* Option of WER Band C or better

¹ In Part L1B, a U-value of 1.8W/m²K is required for doors

[^] Option of WER Band C for buildings essentially domestic in character (e.g student accommodation)

Evolve VS - vertical sliding sash windows with the benefits of modern-day technology



Modern solution

Evolve VS sash windows maintain the elegant proportions of traditional sash windows, whilst incorporating the very best in modern-day technology to deliver the low maintenance and high security of PVC-U without the problems associated with timber sash windows.

Quality-assured Evolve VS sash windows feature tilting upper and lower sashes for ease of cleaning, low-line beads and glazing gaskets for improved sight lines and energy efficient glass for enhanced thermal performance.

From terraced housing to stately homes, Evolve VS sash windows enable old-style properties to retain their heritage, character and charm. A wide range of styles, colours and hardware options can be specified, whilst providing the benefits of modern-day technology.

Many buildings have been disfigured by inappropriate window replacements that have not maintained the original design aesthetics of the property. Once installed, new Evolve VS sash windows blend into their surroundings. Sculptured astragal glazing bars, decorative sash horns, two smoothly sliding sashes and a choice of quality operating hardware options all add to the traditional appeal of Evolve VS sash windows.

Evolve VS sash windows are guaranteed for 10 years and manufactured using the highest quality materials under ISO9001 accredited quality management systems.

Safe and secure

Evolve VS PVC-U window frames are fully reinforced with aluminium and sliding sashes are reinforced with galvanised steel to resist deflection under extreme wind-loading conditions and carry the weight of the glass. In addition to strengthening the sashes, the galvanised steel reinforcement provides a strong, secure fixing for lifting handles, latches and other components.

High quality balances maintain the equilibrium of the sash window at any point of travel and robust locking devices ensure properties are secure. Evolve VS operating hardware is designed to give improved levels of strength and durability, safety and comfort to ensure that once installed the windows are built to last.



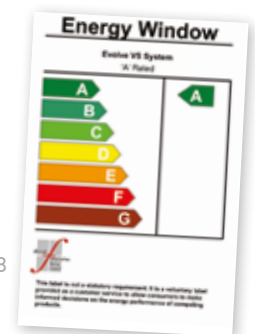


Evolve VS windows – key features:

- Low maintenance PVC-U frames with traditional styling
- A-rated as standard, with B or C also available (optional)
- Fully featured sculptured profiles
- Equal sight lines for top and bottom sashes
- Choice of Georgian glazing bar designs
- Easy-clean tilt facility, with tilt restrictors for safety
- Double glazed with 24mm glass
- Choice of sill sizes available: 154mm (standard), 150mm, 180mm and 225mm
- Sill jointers for professional detailing
- Decorative and run through sash horns (optional)
- Trickle vents (optional)
- Anti-jemmy security bar (optional)
- Sash child/travel restrictors (optional)
- Deep bottom rail for period styling (optional)
- CE Marked
- Guaranteed for 10 years

Energy efficiency

Incorporating brush seals around the openings for effective weatherproofing and draught exclusion, Evolve VS sash windows have an A window energy rating (WER) as standard and optional A+, B or C WER ratings can be specified.



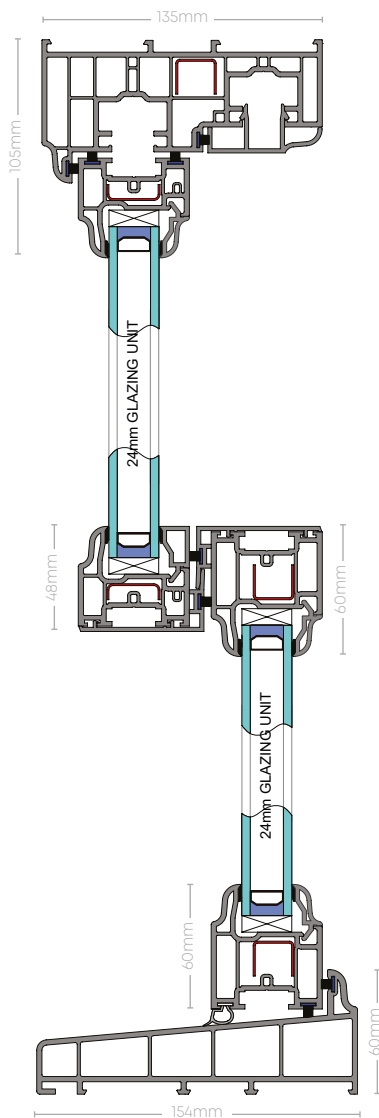
Evolve VS windows are lead free and choosing PVC-U over timber is an environmentally-friendly selection as the majority of end-of-life PVC-U windows can be recycled over and over again to produce new windows.

Double glazing units

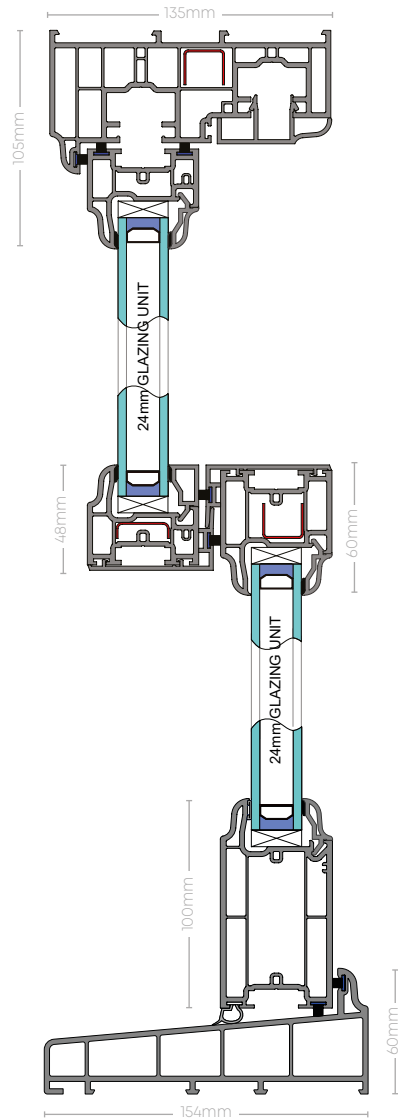
Evolve VS sash windows are glazed with 24mm DG units as standard (4:16:4 pane and airgap configuration with Argon gas filling and Swiss V spacer bar). Specification options include toughened or laminated Low-E glass for enhanced thermal performance. Diamond, square leaded, Georgian and Astragal bar options and obscured patterned glasses for added privacy are available.



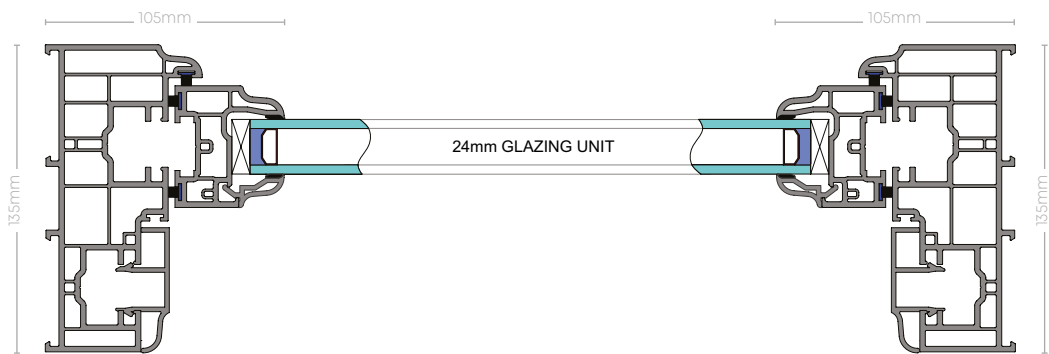
Cross section: Evolve VS windows



Vertical section through sash with standard sill



Vertical section through sash with DBR and non standard sill option

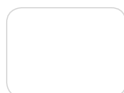


Horizontal section through top sash

Colour options & hardware

Solid colours

Evolve VS windows are available in the following PVC-U profile colour:



White

Woodgrain colours

Foiled finishes are also available to enhance Evolve VS windows with glossy, freshly-painted colour woodgrain or authentic woodgrain effects:



Golden Oak



Golden Oak on White



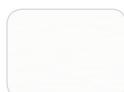
Cherrywood



Cherrywood on White

Artisan woodgrain collection

Evolve VS windows are available in the following Artisan colours and can be specified with White PVC-U on inside faces and woodgrain foiled finish on outside faces, see below:



Woodgrain White



Cream



Cream on White



Irish Oak



Irish Oak on White



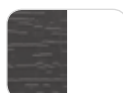
Chartwell Green



Chartwell Green on White



Grey



Grey on White



Black/Brown



Black/Brown on White

Hardware

Evolve VS hardware is available in White, Gold, Chrome and Satin Chrome finishes. High quality balance weights and hardware are securely fixed to integral window frame reinforcements for reliable and smooth sliding sash operation, time after time.



Pole eye - White



Lock - Satin Chrome



Sash lift - Gold



Sash lift - Chrome



Run through sash horns



Tilt restrictor

Glazing Bars

To achieve a traditional appearance, Evolve VS sash windows can be manufactured with a choice of internal or external Georgian glazing bars. Run through sash horns provide another decorative option for a truly authentic look.



Astragal bars - applied to the internal and external surface



Georgian bars - 18mm or 25mm (fitted between panes of glass)

Trickle Vents

Slimline trickle ventilators can be fitted into the head of the top sash in the Evolve VS window to provide air flow and reduce condensation. 2000 or 4000mm² trickle vent options can be specified in White, Brown or Caramel colours to provide ventilation and meet Building Regulations Part F1 for new dwellings. Alternatively, modular design trickle vents that clip neatly together can be incorporated to cater for wider window frames and provide 8000mm² of ventilation, if required.

Window style options

Evolve VS windows are available in a variety of glazing bar configurations and shaped frame designs to suit the style of every property, including sizeable units for commercial buildings.

Equal sized top and bottom sashes (50/50 split) are standard, however windows can be manufactured with other split ratios to specification (minimum transom drop: 350mm).

Evolve VS window sizes:

Minimum width/height: 350mm x 800mm

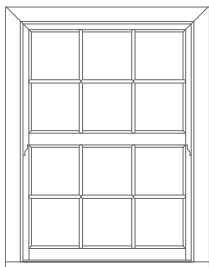
Maximum width/height: 1500mm x 2500mm

Fire escape minimum sizes:

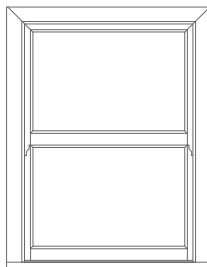
Minimum width/height: 600mm x 1350mm (50/50 split)

Minimum width/height: 600mm x 1100mm (50/50 split)*

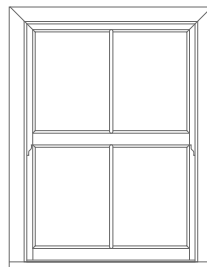
*Using constant force springs.



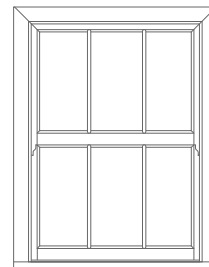
1/2



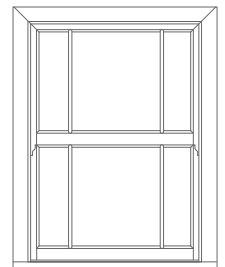
Non-bar



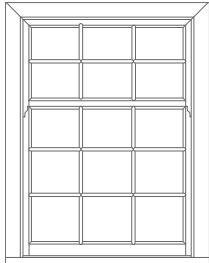
Centre bar



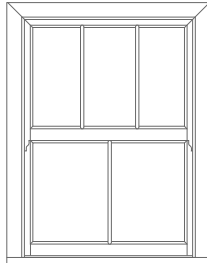
Three Light



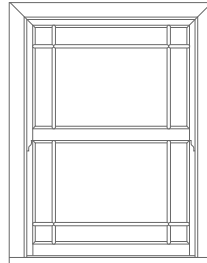
Offset Three Light



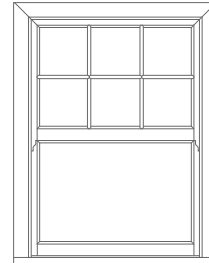
2/5 x 3/5



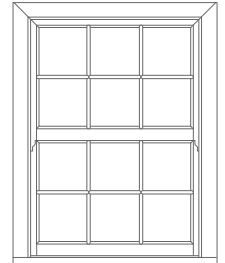
Asymmetric



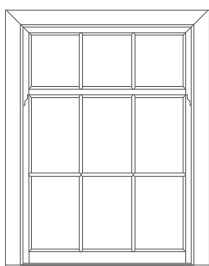
Margin



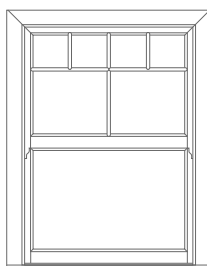
Half Georgian



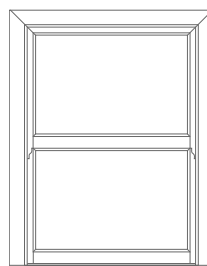
Georgian



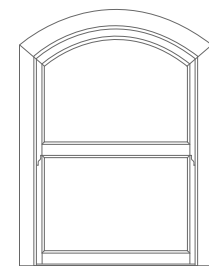
1/3 x 2/3



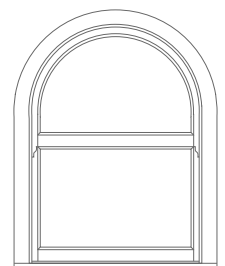
Georgian Variant



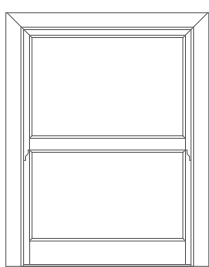
Fire Egress A



Swept Head

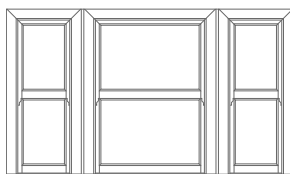


True Arch

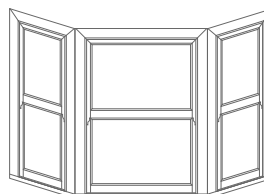


Deep Bottom Rail

Bays and coupled windows also available - please ask for details



Style 2



Tripartite - Style 3

90° and variable angle bay posts are also available for bay window applications.



Both sashes tilt open independently, for easy access to clean inside and out



Both sashes slide up and down, for cleaning access and ventilation



Evolve bi-fold doors - elegant doors creating flexible and modern spaces for both living and working environments

Contemporary bi-fold doors combine elegance with flexibility, allowing design of panoramic view wide-span door openings to create versatile spaces.

Evolve bi-fold doors are precision engineered to the highest standards and available in a variety of finishes and folding leaf combinations. PVC-U door sashes slide along a thermally-broken aluminium top and bottom track system, designed to ensure years of trouble-free service. Rigid aluminium tracks increase the structural strength and enable easy transportation, preventing excessive flex to ensure that the doors run smoothly, even on long spans with multiple leaf configurations.

Evolve bi-fold doors are energy-efficient and easy to maintain once installed.

Evolve bi-fold doors - key features:

- Bi-fold door is supplied fully assembled for easy installation
- Thermally-broken top and bottom aluminium tracks
- High quality Siegenia gearing
- PVC-U door frames available in a choice of single or dual-colour finishes
- Aluminium tracks and hinge covers available in White or Brown finish
- Optional aluminium tracks available in anodised Silver and Gold for use only with Artisan Woodgrains
- Hardware and flag hinges available in White, Polished Gold or Polished Chrome finishes
- Choice of door designs: open-in or open-out
- Sealing weatherstrips conceal unsightly gasket lines for a professional finish
- Double glazed as standard with 28mm toughened clear glass
- U-value: 1.7 W/m²K
- Choice of glazing bead styles: chamfered or sculptured ovolo
- Doors can also be supplied unglazed (optional)
- Choice of sill sizes: 85mm and 150mm
- Sill track trims for improved aesthetics (optional)
- Trickle vents fitted to first and last door sashes (optional)
- CE Marked
- Guaranteed for 10 years



Cross section showing white bi-fold door with ovolo glazing bead and anodised silver aluminium bottom track

Solid and woodgrain colours



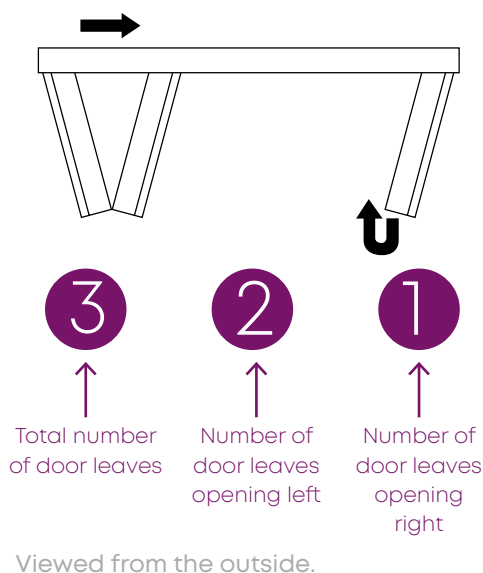
Artisan woodgrain collection



The colours shown are designed as a guide only. Before making a final selection, please ensure you have seen a foil swatch.

Configurations: Evolve bi-fold door

How the configurations work



Double glazing units

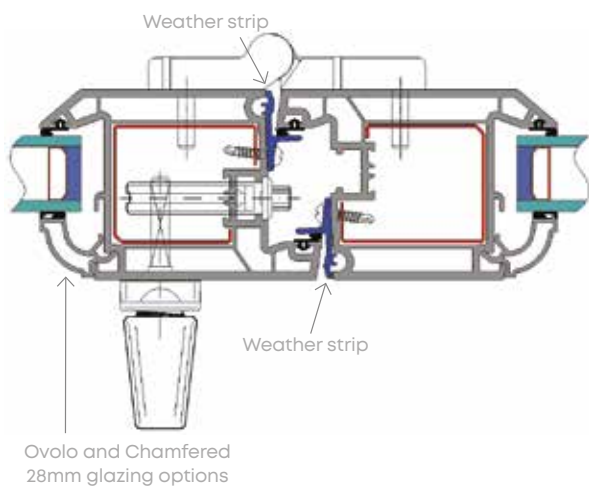
Evolve bi-fold doors are glazed with 28mm DG units as standard (4:20:4 pane and airgap configuration with Argon gas filling and aluminium spacer bar). Evolve bi-fold doors can be supplied unglazed, if required. Upgrade available.

Diagram	Code	Maximum width
	220	1.8m
	321	2.7m
	330	2.7m
	431	3.6m
	440	3.6m
	541	4.5m
	550	4.5m
	532	4.5m
	633	5.4m
	651	5.4m
	660	5.4m

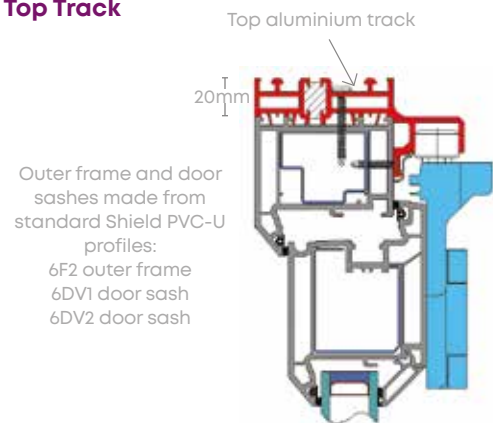
Maximum height: 2300mm
Maximum widths: Woodgrain 4500mm | White 5400mm

Cross section: Evolve bi-fold door

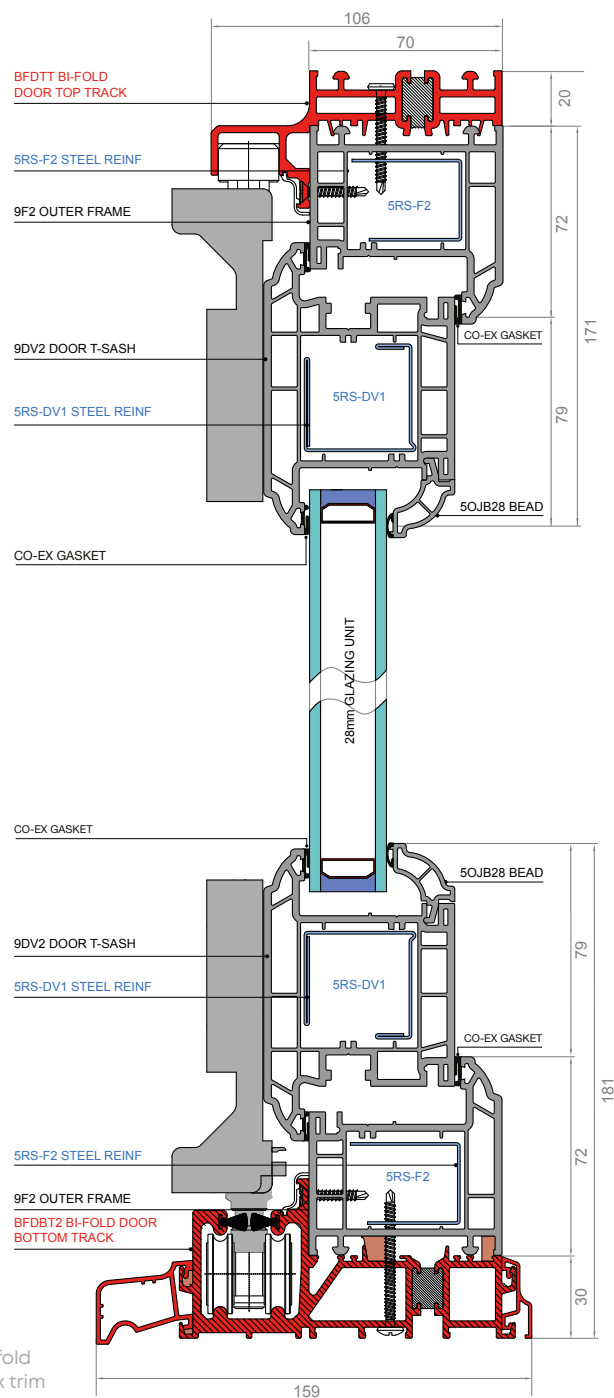
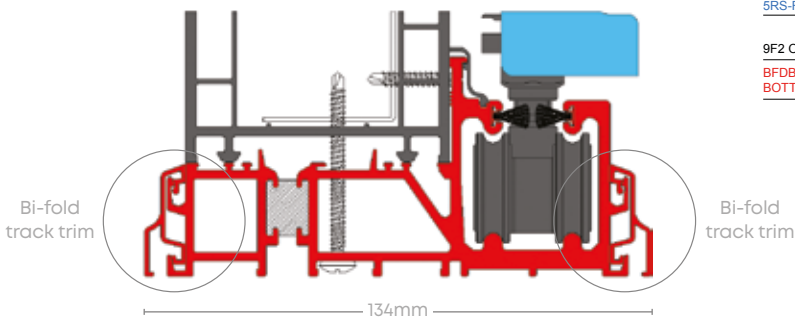
View from above



Top Track



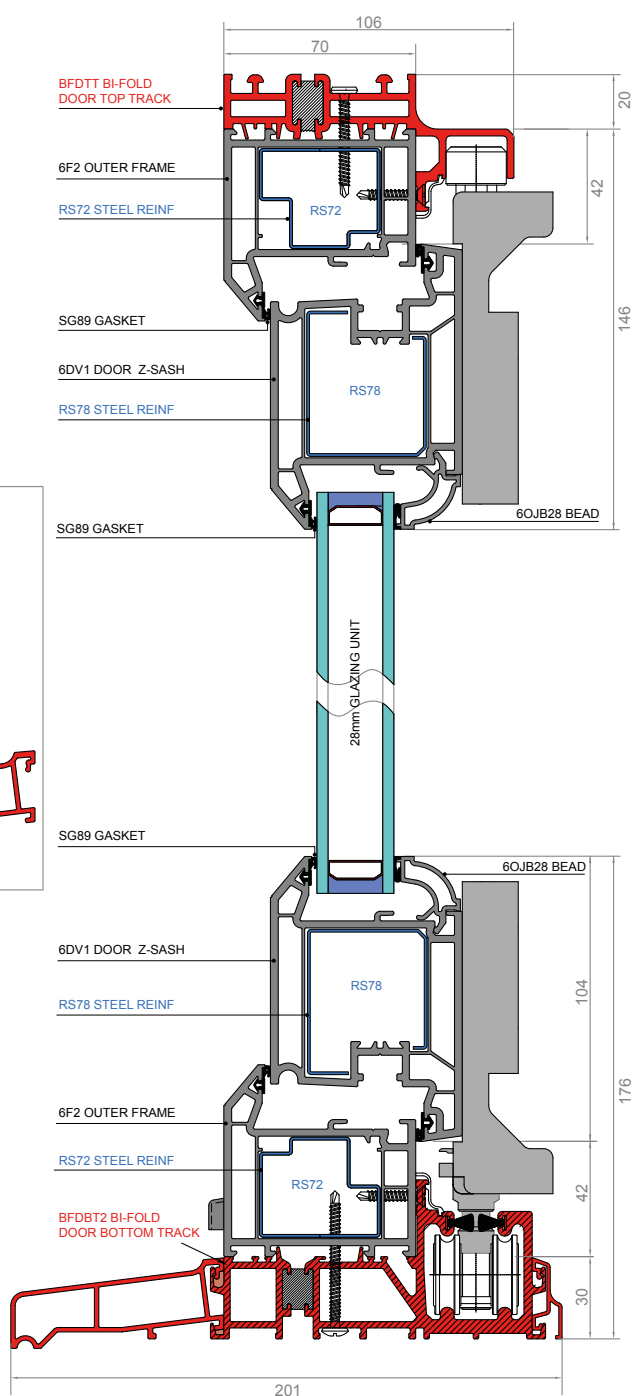
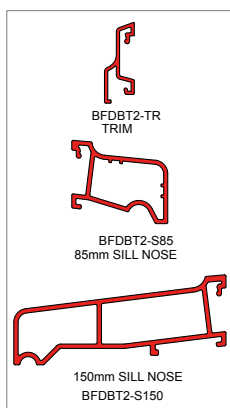
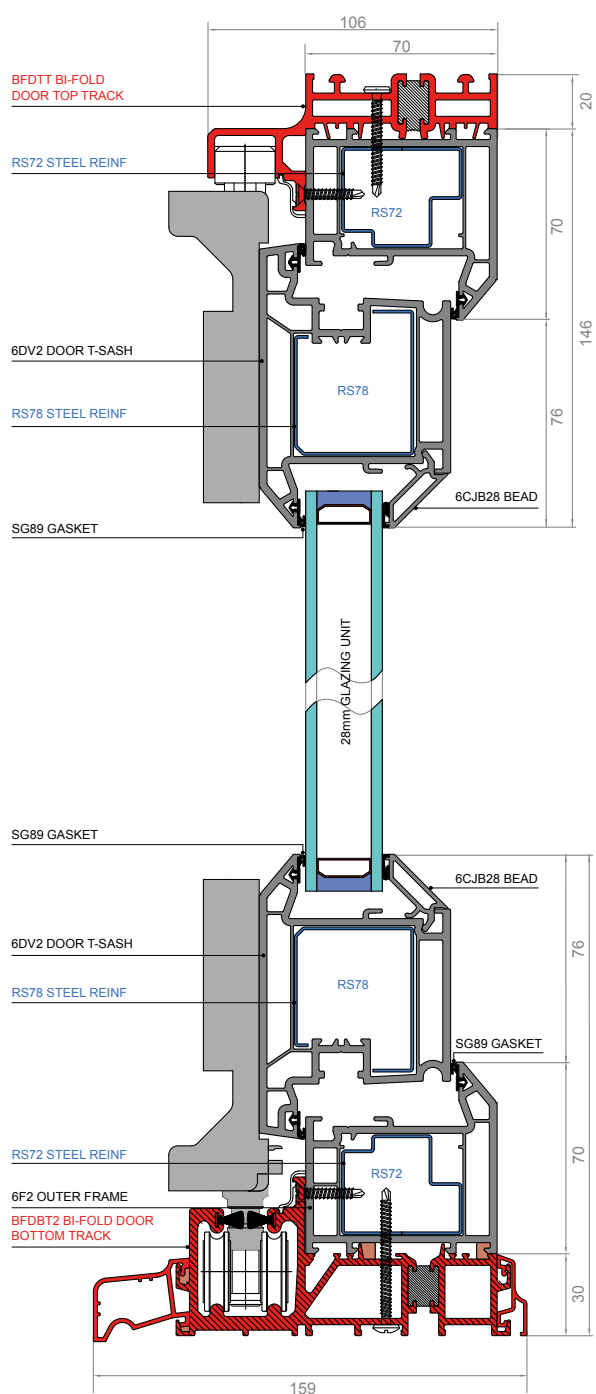
Bottom track with no sill nose



Externally opening Legend ovolo profiles with bead

Can be installed between house and conservatory without a sill

Cross section: Evolve bi-fold door



Externally opening Shield profiles with chamfered bead

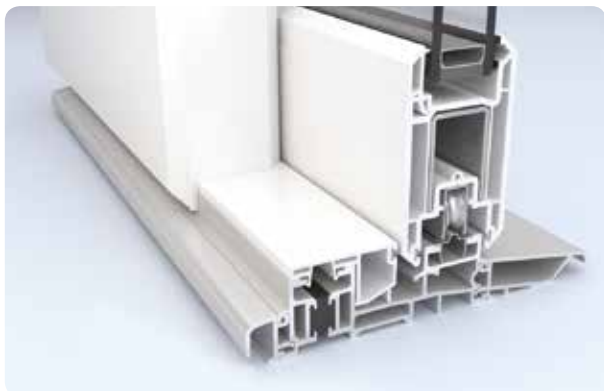
Internally opening Shield profiles with ovolo bead

Evolve patio doors - space-saving home improvement doors combining ease of use with contemporary style

Designed to maximise daylight and provide unhindered views with easy access to outside spaces, patio doors remain a favourite home improvement product and offer an ideal solution when space is at a premium.

Evolve patio doors are engineered to the highest standards and available in a variety of finishes and choice of sliding and fixed leaf combinations. PVC-U door leaves slide along an excellent stainless steel track system, designed to ensure years of trouble-free service. Evolve patio doors are supplied complete with Yale cylinder locks, handle set, steel frame reinforcements, rollers, thresholds, trims, bump stop and anti-lift blocks.

Evolve patio doors require little maintenance and will keep homeowner premises warm due to their energy efficient design.



Trim/ramp option

Solid and woodgrain colours



Artisan woodgrain collection



The colours shown are designed as a guide only. Before making a final selection, please ensure you have seen a foil swatch.

Evolve patio doors - key features:

- Patio door is supplied fully assembled for easy installation
- Stainless steel patio tracks
- High quality Yale stainless steel 6 hook bi-directional lock and keep
- Available in a choice of single or dual-colour finishes
- Hardware available in White, Black, Polished Gold or Polished Chrome finishes
- Sliding sashes and interlocks fitted with woolpile for draught exclusion
- Tandem rollers provide up and down adjustment for glazing precision
- Double glazed as standard with 28mm toughened clear glass
- U-value: 1.5 W/m²K
- Chamfered glazing beads with lowline black gaskets are internally glazed for security
- Doors can also be supplied unglazed (optional)
- Choice of White PVC-U: Shield White or Legend White
- Choice of sill sizes: 85mm, 150mm and 180mm
- Choice of outer frame constructions: fully-welded or mechanically-jointed
- Trickle ventilator fitted at head (optional)
- CE Marked
- Guaranteed for 10 years
- Optional thermally-broken aluminium low threshold is mechanically fixed to patio door jambs, with trim/ramp, ramp/ramp or trim/trim configurations available in Gold or Silver anodised finish
- Triple-chambered sash profile for improved thermal performance, with additional slope to optimise drainage and 2mm thick steel reinforcement for greater rigidity
- J-bead design for ease of glazing
- Optional internal slider configuration

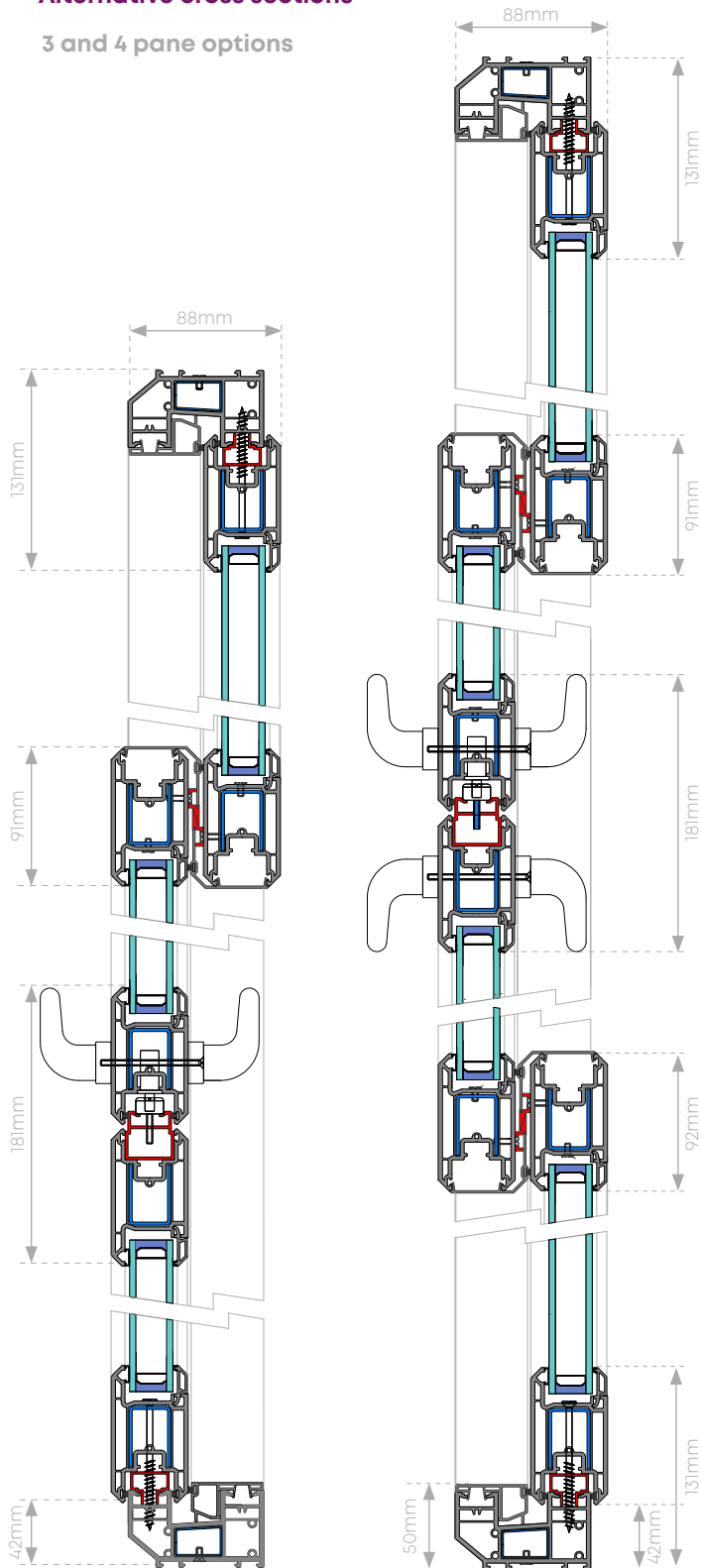
Double glazing units

Evolve patio doors are glazed with 28mm DG units as standard (4:20:4 pane and airgap configuration, with Argon gas filling and aluminium spacer bar). Evolve patio doors can be supplied unglazed if required.

Cross section & configurations: Evolve patio doors

Alternative cross sections

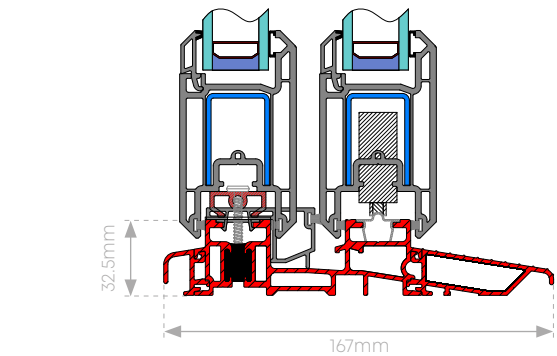
3 and 4 pane options



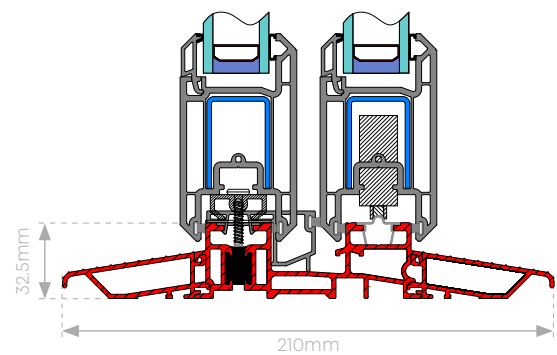
3 pane horizontal cross section

4 pane horizontal cross section

Low threshold options

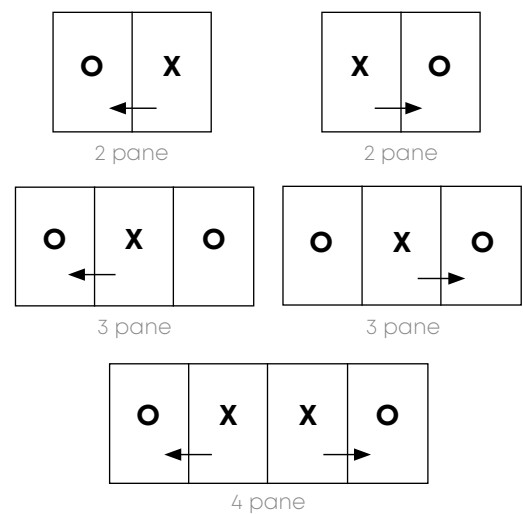


Trim/Ramp option



Ramp/Ramp option

Configurations



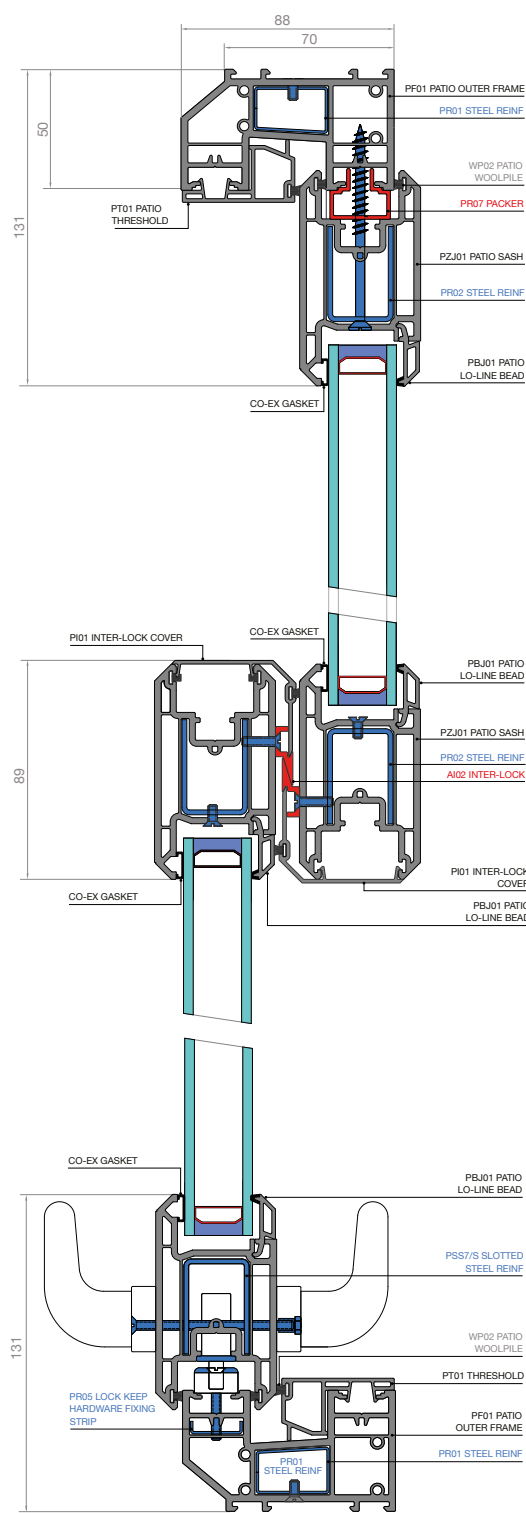
X = Slider O = Fixed panel

Viewed from the outside, external slider is standard (internal slider option available on request).

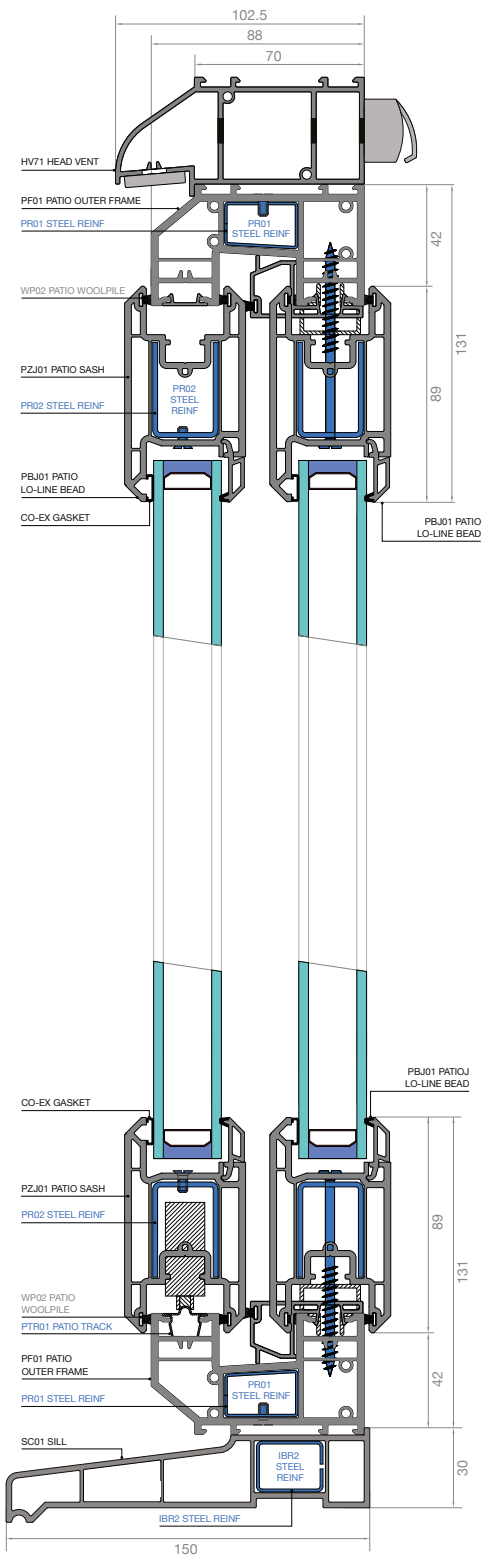
Minimum sash width 750mm per pane

Maximum sash width 1500mm per pane

Cross section: Evolve patio doors



Horizontal cross section



Vertical cross section

Technical Support



A skilled customer care team is always on hand to provide technical information, answer any window or door related questions and assist with project enquiries. With many years of industry knowledge and experience, the team can offer you specialist advice at all stages:

- Advice on energy ratings and how to optimise the use of profine products
- Tendering assistance
- CAD details
- Design guides
- Dedicated commercial manager support
- Guidance on how to comply with the latest Building Regulations
- Wind load calculations
- Product specifications
- Installation instructions
- Maintenance guidelines
- Guarantee information





Tel 01623 443200 | Common Road | Huthwaite | Nottinghamshire | NG17 6AD

