

synerjy
window & door suite

Arguably.....

the most beautiful.....

Whether replacing your windows, doors or building a conservatory, there can be no better choice than SynerJy. Every section of the SynerJy system incorporates an elegant sculptured edge. Sculptured meaning shape, not just a curve! Even the door profiles boast this contour, on both edges.

SynerJy is made from polymer materials, skillfully blended specifically for the British climate and extruded here in the UK to British Standards BS EN 12608:2003. These windows will never rust, rot, warp or more importantly, never need painting.

This highly engineered window system offers you the opportunity to choose from hundreds of window and conservatory designs. SynerJy utilises the latest technology in shootbolt and deadbolt mechanisms, so you can rest assured that your home will be safeguarded against intruders at all times.

Choose SynerJy, Choose Style.





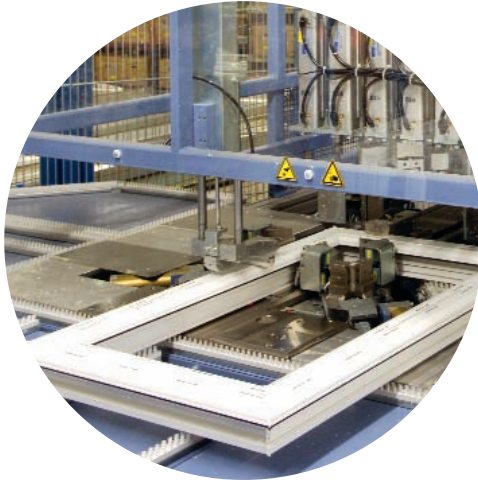
inspirational

Windows....









from
production
to installation





detailed





mahogany



light oak



cherry

Choose from the ever popular sparkling white, 3 woodgrain finishes to give a natural wood appearance, or even a combination of white one side and woodgrain on the reverse. SynerJy is now also available in grey, black, red, blue and green.

colourful





The front to back dimensions of SynerJy (70mm) matches that of timber, making it possible to replace old timber frames with ease and efficiency.



matching

Doors..



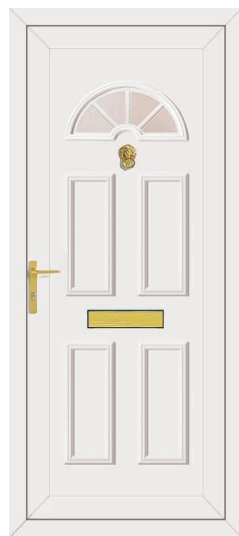
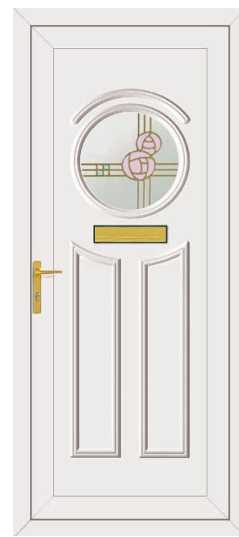






safe and secure











*Patio doors -
whenever your
requirements are
dictated by lifestyle,
space and room
design.*



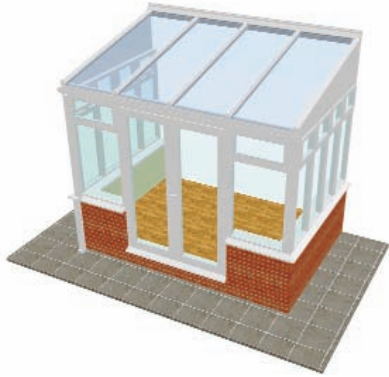
Conservatories..







Lean to



3 Seg Victorian



5 Seg Victorian



A SynerJy conservatory guarantees high quality and performance of the highest standards. The classic sculpture of the frames follow through onto the eaves beam cladding, ridge bottom cladding and rafter bottom caps, a true conservatory solution.

The innovative technology behind the roof system means it can be constructed quickly, safely and securely.

Gable



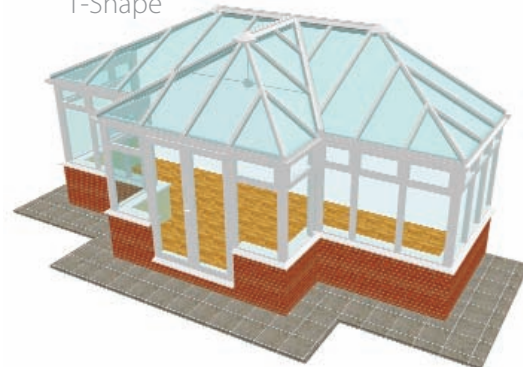
Edwardian



P-Shape



T-Shape

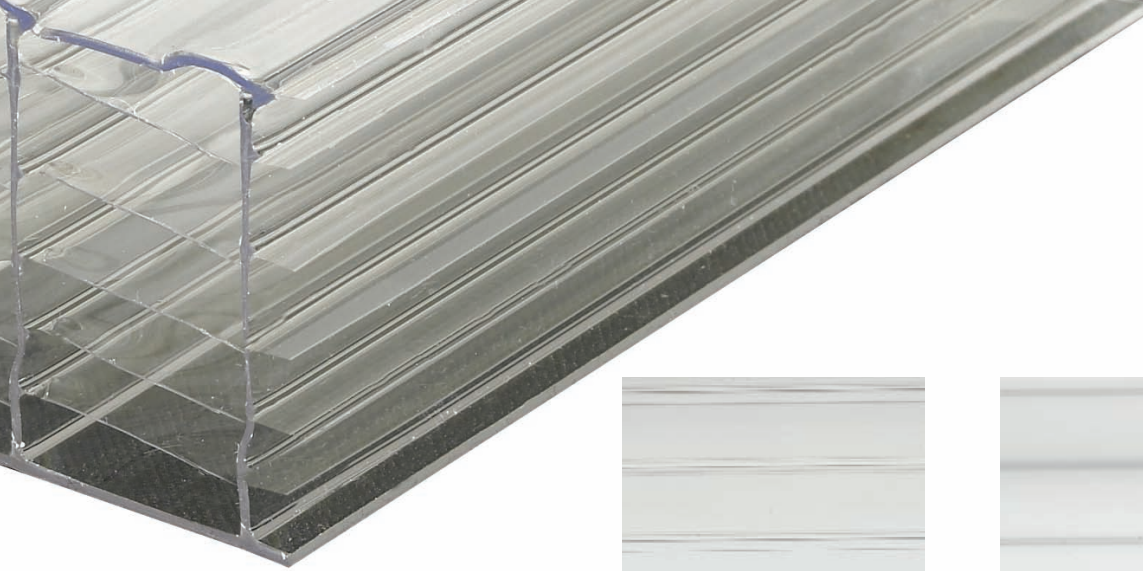


Whatever style of conservatory you choose, Lean to, Victorian, P-Shape etc., make sure its a SynerJy Conservatory.

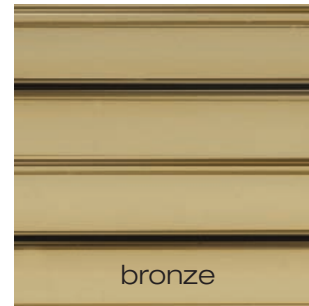






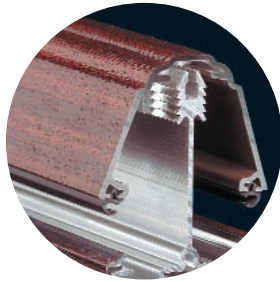
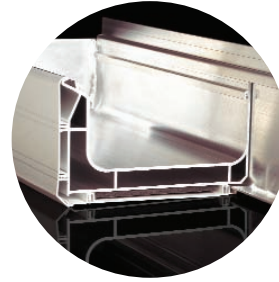
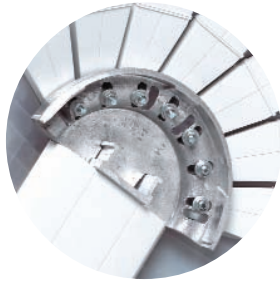


You can have glass or a choice of polycarbonate for your conservatory roof





Our sales advisors will tell you about the numerous features not found in lesser systems, such as concealed gaskets and powder coated aluminum woodgrain top caps to stop the distortion in hot weather. And they will help you design the conservatory of your dreams.



innovative





distinctive



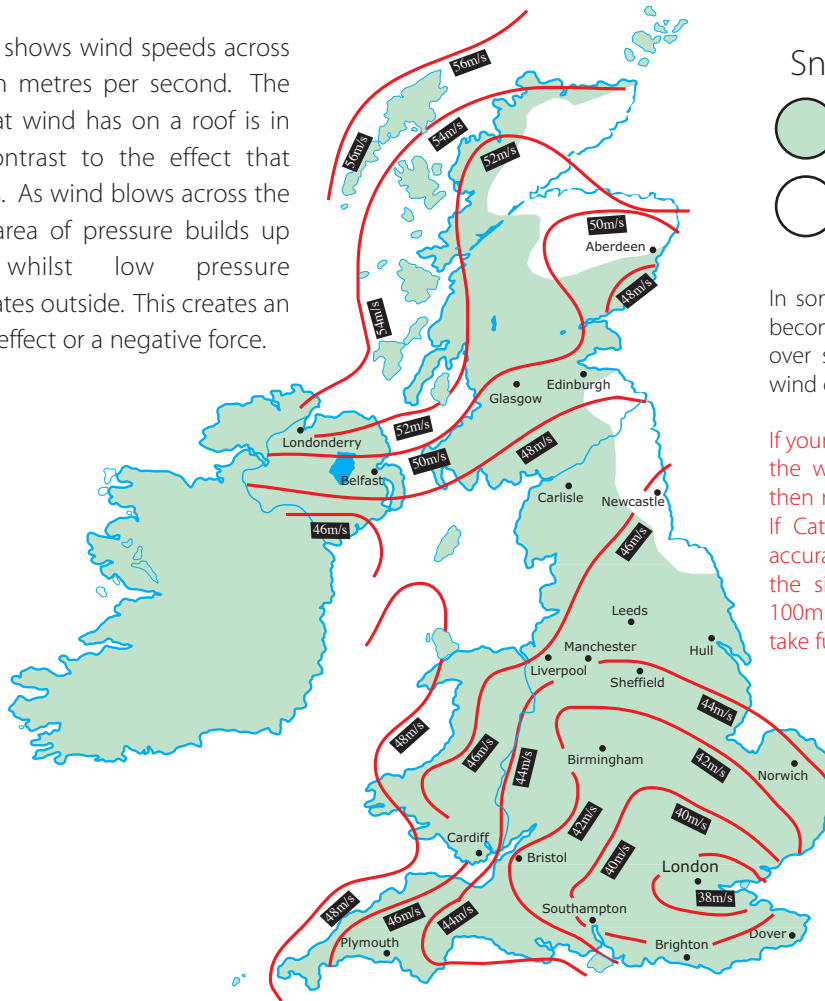


totally cool



UK Wind Speed/Snow Load Map

The map shows wind speeds across the UK in metres per second. The effect that wind has on a roof is in direct contrast to the effect that snow has. As wind blows across the roof an area of pressure builds up inside whilst low pressure accumulates outside. This creates an uplifting effect or a negative force.



Snow load

● 0.6kn/m²

○ 0.8kn/m²

In some cases the wind load will become the dominant loadcase over snow load. Below are four wind exposure categories.

If your proposed site is 0.8kn/m² or the wind speed is above 50m/s then read the descriptions below. If Category One describes most accurately your site conditions or the site altitude is greater than 100m then it will be necessary to take further advice.

Category **ONE** Open country with no obstructions eg. coastal fringes

Category **TWO** Open country with scattered wind breaks

Category **THREE** Country with many wind breaks: Small towns, outskirts of large cities.

Category **FOUR** Surface with large and frequent obstructions eg. city centres.





Technically.....

the most advanced
window and
conservatory system
on the market!



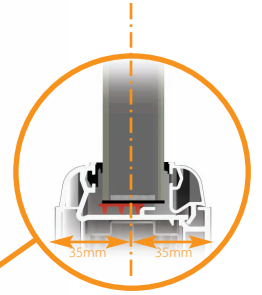
Bespoke conservatory system



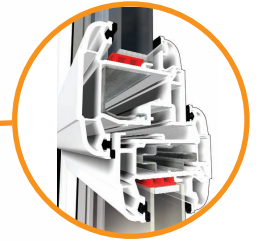
One casement sash



J bead for easy installation



28mm Sealed units



Internally beaded and multi-chambered profile for security and to reduce heat loss.



Fait - Accompli
2006



Technical Data

<i>Name:</i>	SynerJy; 3mm system for windows and doors.
<i>Grade Reference:</i>	SYN10 White 01.
<i>Material:</i>	Acrylic modified high quality impact resistant, white unplasticised Polyvinyl Chloride extrusion to produce a rigid multichamber extrusion.
<i>Physical Properties:</i>	Comply with BS EN 12608 Annex A
<i>Colours:</i>	White, Mahogany, Light Oak and Cherry.
<i>Appearance:</i>	Smooth, white, non-porous gloss surface, complies with requirements of BS EN 12608 5.2
<i>Surface Finish:</i>	Stabilised against UV light to prevent excessive colour shift.

Corner Welding: Homogeneously welded. Weld not to fracture below 25N/mm² BS EN 12608, test method EN 514

Window System: Subject to manufacture in accordance with the Synseal Technical Manual recommendations, the casement window system will conform to the requirements of the standard BS7412.

In addition, a GGF standard window manufactured from SynerJy profiles, in accordance with the Synseal Technical manual, using low-e glass in the unit, achieves a U-value of 1.9 W/m²K¹ when hot-box tested by the British Board of Agrément.

Physical Properties of PVC-U Type A Material Grade Ref: SYN10 White 01

<i>Sound Installation:</i>	30 dB minimum.
<i>Thermal Conductivity at 20 deg C:</i>	Typical test value 0.16 W/M deg C. PVC-U has a low thermal conductivity, and is virtually constant over a wide temperature range.
<i>Fire Classification/ Performance:</i>	PVC-U is a difficult material to burn which decreases the likelihood and development of fire "When exposed to a flame, PVC-U carbonises without burning or producing droplets, and it has been established that Synseal profiles can be used to achieve a Class 1 surface spread of flame rating to BS476: Part 7."
<i>Heat Reversion:</i>	To BS EN 12608 clause 5.5 (Test method: 1 Hr at 100 deg C). When tested in accordance with EN 479, the mean maximum reversion value for individual samples shall not be greater than 2% for profiles and 3% for glazing beads.
<i>Heat Ageing:</i>	To BS EN 12608 clause 5.7 (Test method: 30 mins. at 150 deg C). When tested in accordance with EN 478, the profile shall show no bubbles, cracks or de-lamination.
<i>Resistance of Impact at Low Temperature:</i>	To BS EN 12608 clause 5.6 (Test method 1kg from 1.5m at -10 deg C). When mainframe, casement and sash profiles are tested in accordance with EN477, no more than 1 sample

shall exhibit cracking through the entire wall thickness of the profiles on either face.

Heat Resistance/ Softening Point: To BS EN 12608. When tested to BS EN ISO 306 (Method B) Minimum Vicat softening point: 75 deg C. Typical result 82 deg C. This is well above the requirements of the UK and German specifications.

Flexural Modulus of Elasticity: To BS EN 12608. Minimum requirement 2200 N/mm² value, when tested to EN ISO 178. Typical result 2350mpa.

Co Efficient of Thermal Expansion: Allowances for changes in dimensions are required that occur when the temperature varies. The co-efficient of linear expansion for PVC-U is 6 x 10⁻⁵ per °C. It is about half that of many other thermoplastics.

Profile Properties: Clause 5 of BS EN 12608:2003

Retention of Impact Strength After Artificial Weathering: To BS EN 12608 Maximum 40% reduction of original value specified when tested to EN513.

Colour Fastness: Change in colour after exposure in accordance with EN 513 expressed in ΔE* not greater than 5 and Δb* not greater than 3.

Bulk Density of Powder Blend: Typical test value 0.63 - 0.64. Minimum requirement: Non specified.



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SynerJy is a Synseal product

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