

# I want a synseal conservatory

 synseal<sup>®</sup>  
ask for it by name





# The Complete One vision

Synseal doesn't compromise. Unlike conservatories made in two halves, where the roof comes from a different source to the windows, every part of a Synseal Complete Conservatory has been designed as a complete room. For example the edge design of all windows, doors, and roofing bars is the same.

*"...the edge design of all windows, doors  
and roofing bars is the same."*

Conservatories made in two halves don't have matching edge designs, but with a Synseal Complete Conservatory every window, door, roofing bar and ridge detail is designed to match perfectly, from roof to sill. The simplicity and elegance from having one design throughout makes the finished room simply stunning.



**Each working week  
a Synseal conservatory is  
installed every 2 minutes**

## *As seen on TV*



*'One vision' and 'One colour' available in both Synseals SynerJy and SHIELD ranges*

# Conservatory One colour



*synerly sculptured range shown*



If you buy a suit you expect the jacket to be made from the same material as the trousers, it makes sense. You'd probably expect the roof and the windows of a conservatory to be made from the same material too. But many conservatories are made from different components; the roof comes from one company and the windows from another.

***"If you buy a suit you expect the jacket to be made from the same material as the trousers, it makes sense."***

With Synseal's Complete Conservatory you can choose to have the windows and roof matching perfectly. Because Synseal manufactures everything from its Nottinghamshire factory, from the same materials, you can have exactly the same colour from the sill to the finial. This is one of the top reasons why Synseal is the number one choice for conservatories in the UK.







*"I want a Synseal Conservatory so I can throw dinner parties for my friends."*

What will you do in yours?

# Neater

To make your Complete Conservatory watertight a gasket seal is used between the glass and the frames of the windows and the roof. But whether you want a white conservatory or one of the many woodgrain options available, you won't want to spoil the appearance by thick black gasket lines splaying out around the edge of every window or roof section.

*'...reduces the visible part of the gasket so you get a neater finish...'*

Synseal has the option of specially engineered internal gaskets designed to seal under the frame. This reduces the visible part of the gasket so you get a neater finish around the glass both inside and outside of your Synseal Complete Conservatory.



**Can I remove the doors between my house and my Synseal conservatory?**

Yes, this can create a beautiful open plan space. You'll need to get building regulation approval as the conservatory becomes part of the house.



# Will I need planning permission? finish



In England and Wales many conservatories don't need planning permission. However it's always good to check. Ask your conservatory installer and check with the planning office if you have any doubts. As a general rule you'll need planning permission if:

1. You build within 2m of the boundary line and the highest point at that junction is 4m or more high.
2. Your conservatory covers more than 50% of the original garden.
3. Your planning development rights have been removed.
4. Grade II listed buildings.
5. Where a conservatory is 20m or less from a road or public footpath.
6. Permitted development means a property can only be extended by 50-70 metres. This is accumulative, if the property has been previously extended, the conservatory added to the previous work exceeds permitted development levels.

## *Do I need Building Regulation approval?*

Generally speaking conservatories on residential property are exempted under Building Regulations. (England and Wales.) If you live in Scotland or Northern Ireland your installer will be able to advise you.

Below are some of the Exemption Criteria - under the Building Regulations 1991 (as amended). These criteria must be met for a conservatory extension to be classified as exempt:

- a. The conservatory has a completely transparent or translucent roof
- b. The walls are substantially glazed. (Should not have more than 25% of its wall area as brickwork)
- c. A floor area not exceeding 30m<sup>2</sup>
- d. The conservatory is at ground level
- e. A door separates the house from the conservatory
- f. Radiators are controllable within the conservatory and have separate temperature and on/off controls
- g. All glazing satisfies Part N, Schedule 1 for toughened/safety glass
- h. There is no sink, toilet or plumbed in electrical appliances, such as washing machines or dishwashers
- i. If you want to move an inspection chamber – please also check Bylaws and restrictive covenants







*"My mum and dad want a Synseal Conservatory so I have somewhere to play!"*

What will you do in yours?

# Safe and

Glass in windows can be fitted from the inside or the outside. For added security it's better to have internally glazed windows so the bead holding the glass in place is on the inside. The only way to remove the glass from our internally glazed window is from the inside. Externally glazed windows have the bead on the outside and a burglar could remove the bead and glazed unit from the outside.

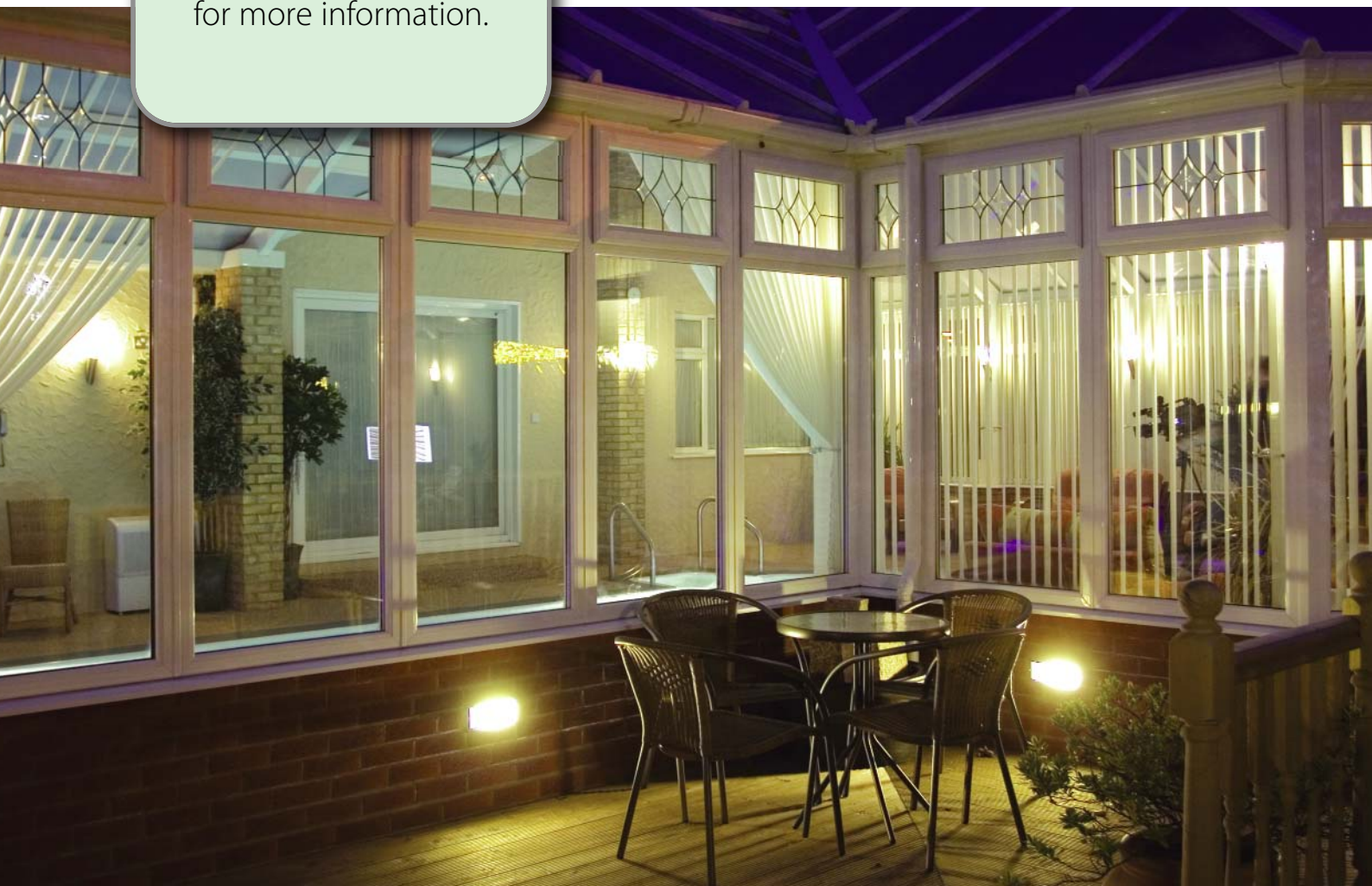
*'The only way to remove the glass from our internally glazed window is from the inside'*

All Synseal windows are designed to be internally glazed giving you extra security.



## **Can I have blinds fitted in my conservatory?**

Yes, but make sure they are installed correctly. Please ask your installer for more information.



# Beating the burglar secure



With a Synseal Complete Conservatory the roof is internally fixed. The glazing bar has a unique bolt channel which enables the rafters to be securely bolted from inside the conservatory.

*'...rafters are  
securely bolted from inside...'*

Conventional 'roof-only' products have to be fixed through the drainage channels of the glazing bar. With a Synseal conservatory there is no need to drill through these important drainage channels. Not only are you assured of added security, but extra weatherproofing too.



**In 2005 Synseal supplied  
375,000 metre<sup>2</sup> of polycarbonate –  
that's enough to cover the  
whole of the Isle of Wight!**

## Windows

In 2005/6 300,551\* burglaries were committed, that's one every 30 seconds. Most burglaries are committed by opportunist thieves. In two out of ten burglaries they don't even have to use force – they get in through an open door or window – so lock up before you go out!

You can reduce the risk of burglary happening to you by making sure you've taken these simple precautions.

A third of burglars get in through a back window. Easily visible locks may deter some thieves, because a window lock forces the thief to break the glass and risk attracting attention. Make sure you fit key-operated window locks to all downstairs windows, those which can't be seen from the street and easily accessible upstairs windows, eg. those above a flat roof or by a drainpipe.

## Doors

If your front and back doors are not secure, neither is your home.

- 1 Glass panels on or around the door are especially vulnerable, so make sure they have laminated glass in them.
- 1 Get specialist advice on fitting locks to patio doors.
- 1 Fit both french doors, top and bottom, with a security mortice lock and mortice bolt.
- 1 Patio doors should have special locks fitted top and bottom unless they already have a multi-locking system.

*\*British Crime Survey*







*"I want a Synseal Conservatory so I can enjoy my garden all year round."*

What will you do in yours?

# Green or

Many use conservatories to fully appreciate the green of their garden. We have used green thinking with our conservatories which can house the very latest in thermally efficient glazing technology. Or, if you are considering a polycarbonate glazed roof, Synseal conservatories are available in a heat-saving, 35mm thick, 7 wall, 6 chamber polycarbonate material.

*'... the very latest in thermally efficient glazing technology...'*

Every part of a Synseal Complete Conservatory is manufactured in Nottinghamshire, so everything comes from one place. This means distribution is highly efficient, and minimises the environmental impact. Synseal also use low-energy manufacturing methods to reduce harmful gas emissions.



**I have a sloping garden; can I still have a conservatory?**

In most cases you can have a conservatory, contact your installer for designs to suit you.





# Conservatories that don't cost the earth n green



It's no longer a theory the earth is warming up, we can see it for ourselves. Fast melting ice caps; warmer winters and sizzling summers; year round hose pipe bans; and a bumper crop of grapes in the UK have all hit the headlines recently. With diminishing natural resources and increasing concerns over global warming it's important to choose products that are environmentally friendly.

Choosing a PVC-U conservatory doesn't have to cost the earth, in fact because it can be thermally enhanced, low maintenance and long lasting, you'll be surprised to know:

- *By using higher thermally efficient glass and polycarbonate, heat loss is reduced so you produce lower carbon emissions and benefit by lower fuel bills*
- *You can save trees by using a rot-free alternative to wood*
- *And, unlike wood that needs constant maintenance with chemical-based stains or paints, low maintenance PVC-U just needs soapy water*

## Harnessing the sun's rays

By using specialist low emissivity (low-E) glass in your conservatory you can use your conservatory without additional heating for more days in the year. Low-E glass is designed to reflect heat back into your conservatory, maximising the use of the available heat from the sun. Compared to standard glass, low-E glass installed in your conservatory enables you to save on your heating bills by using less heat to keep your conservatory warm. These unique properties keep your conservatory warmer, meaning you can run your heating system for a shorter period and still remain just as comfortable.

Low-E prevents more heat escaping through the window than standard glass. Its energy saving coating allows the sun's rays through, but also reflects warmth from fires and radiators back into the home. The greater insulation offered by low-E makes the inner pane of a window much warmer. This eliminates cold spots and increases the amount of usable floor space.

Glazing performance comparison	
The lower the U value - the lower the heat loss	
U Value	Ordinary single glazing
5.4	W/m <sup>2</sup> K
U Value	Conventional double glazing
2.6	W/m <sup>2</sup> K
U Value	Low Emissivity double glazing
1.8	W/m <sup>2</sup> K <small>Building regulations Document L compliant</small>
U Value	Gas filled Low-E double glazing
1.6	W/m <sup>2</sup> K <small>Building regulations Document L compliant</small>



**Synseal manufactures  
everything for your conservatory  
in the UK**



*"We want a Synseal Conservatory so we can have a place where we can all be together."*

What will you do in yours?

# It's up to

A Synseal Complete Conservatory is available in a variety of woodgrain effect finishes as well as white. If you choose one of the woodgrain finishes your conservatory roof will have aluminium top caps not PVC-U.

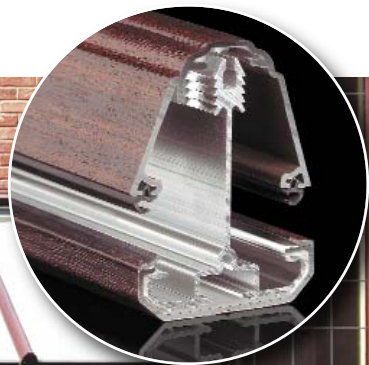
***'Aluminium top caps come as standard for woodgrain effect roofs...'***

Because darker colours absorb more heat, the woodgrain effect finishes are applied to aluminium rather than PVC-U so they can withstand higher temperatures and remain perfect for years to come. Aluminium top caps come as standard for woodgrain effect roofs, but we also offer a high gloss powder coated aluminium top cap in white as an option.



## **Can I have a Synseal Conservatory on my bungalow?**

Yes, by using a box gutter and hipped back roof design, a Synseal conservatory will fit on a bungalow or flat roofed extension.





# Protecting your privacy

# you

## Woodgrain Options



mahogany

light oak

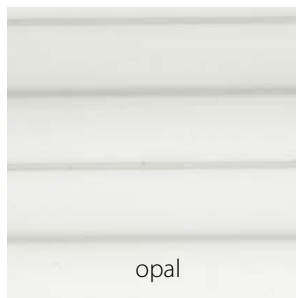
cherry

Choose from the ever popular white, 3 woodgrain finishes to give a natural wood appearance, or even a combination of white one side and woodgrain on the reverse.

## Polycarbonate Options



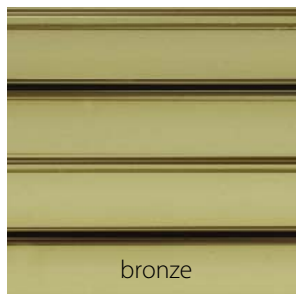
clear



opal



silver/opal  
(external view)



bronze



silver/opal & bronze/opal  
(internal view)



bronze/opal  
(external view)

Sometimes the best place for your conservatory means one side is overlooked by neighbours. There are several options to protect your privacy:

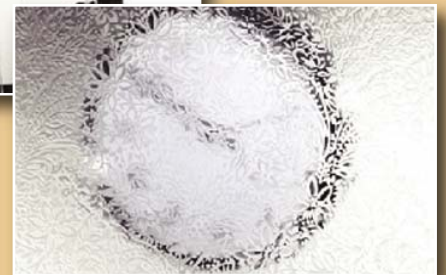
- Use solid PVC-U panels on one wall rather than glass
- Build a solid wall and incorporate a box gutter
- Or if you want more light use obscure glass. There are lots of designs and levels of privacy:

Pilkington Warwick™



Level 1

Pilkington Chantilly™



Level 2

Pilkington Digital™



Level 3

Pilkington Stippolyte™



Level 4

Pilkington Pelerine™



Level 5

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*"I want a Synseal Conservatory so I can invite my mates around to play pool."*

What will you do in yours?

# Hidden

When a conservatory is fastened to the wall of your home the weatherseal is formed using a lead flashing trim. This lead flashing detail is cemented into the brickwall, and on other 'roof systems' is then just laid on top of the conservatory roof. After time this can lead to a stain on the conservatory roof where the water has run off of the lead and on to the polycarbonate or PVCU cappings.

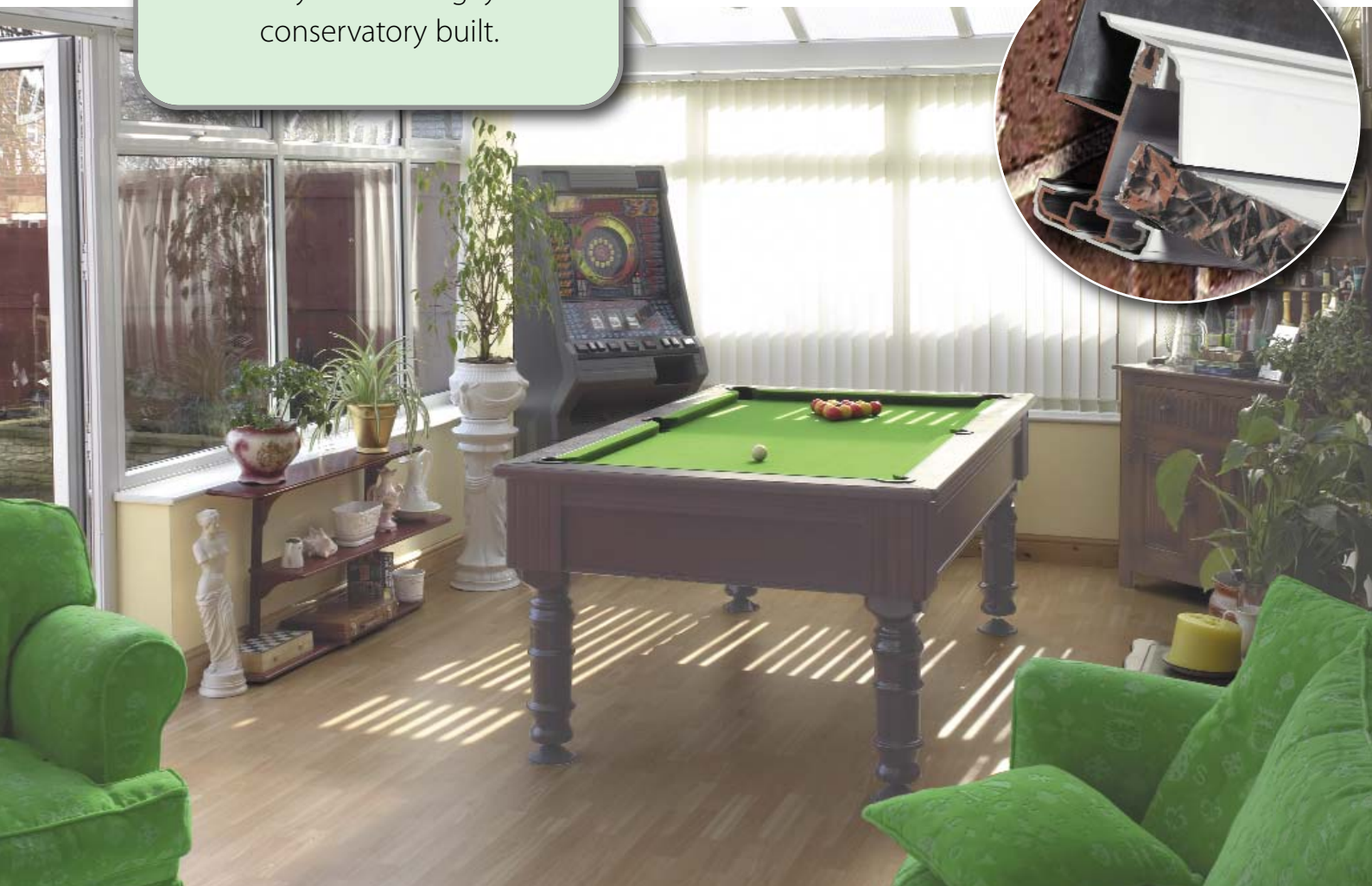
*'...but also gives a perfectly straight lead trim line.'*

Every part of a Synseal Conservatory has been considered, even down to the detail of where to put the lead flashing. The Synseal wall rafter has been designed with a soak tray to tuck the lead seal into. Not only does this protect from the risk of future stains but also gives a perfectly straight lead trim line.



**Can I have my house gutter replaced to match the conservatory?**

Yes, why not ask your installer about Synseal guttering when you're having your conservatory built.





# Glossary of benefit



Because Synseal designed a conservatory and not just a roof, we were able to develop how the roof fixes to the building. Conventional roof and window systems are simply screwed together, by drilling holes through the top of the windows!

*'...the windows and roof are designed to fit together perfectly...'*

Our unique, patented, turnbuckle mechanism means the windows and roof are designed to fit together perfectly, without creating potential leak points. The turnbuckle system is also quicker to install, it simply clicks into place for a perfect fit.



**The name Synseal was created by Chairman Gary Dutton in 1979, and is an abbreviated form of Synthetic Seal.**

## terms

**Box gutter** – a structural aluminium guttering that collects rainwater where a conservatory roof drains towards a wall. This connects into the standard conservatory guttering

**Tie bar** – a structural requirement used on larger conservatories to stop the roof from sagging

**Ridge** – is the section at the top of the conservatory roof where the crestring and finial is fastened

**Edwardian** – a square fronted conservatory with a ridge central in the roof

**Georgian** – another name for the Edwardian

**Lean to** – a conservatory with a single slope for a roof

**Victorian** – a bay fronted conservatory with a ridge central in the roof, normally with three or occasionally five segments at the front

**P-shape** – a combination shaped conservatory usually made with a lean too at the side of a Victorian or Edwardian shaped conservatory

**Valley gutter** – the guttering section used on P Shape conservatories or on any other type of conservatories where two parts of a conservatory roof drain towards each other

**Cresting** – the decorative sections that run along the top of the ridge

**Finial** – the single pointed decorative 'point' at the end of the crestring

**Gable** – an Edwardian shaped conservatory that does not slope back at the front of the conservatory, leaving a triangular shaped window frame to the front elevation

**Espagnolette** (also known as an *espag*) – a window locking system that is concealed within the chambers of the PVCU profile

**Shootbolt** – a high security locking system working on the same principle as an espagnolette, except for additional locking points that are thrown out of the side of the opening window

**Portal frame** – an engineered steel frame used on especially large buildings to provide structural stability

**Friction stays** – these are the hinges that are used on PVCU opening windows





*Only Real Synseal Conservatories have the Synseal logo on the end caps.*



# Really Synseal?



*Real Synseal Conservatories come with Synseal branded protective tape.*



*Only Real Synseal Conservatories come with a Synseal key fob.*



*Only Real Synseal Conservatories come with a Synseal plaque.*



**One in every four conservatories installed in the UK uses Synseal products.**

**Only real Synseal Conservatories have the Synseal PVC-U finial and cresting.**



# Who is Synseal?

As well as being the UK's number one choice for conservatories\*, we are also the number one choice for windows and doors\*\*. Synseal first opened its doors over a quarter of a century ago, on Easter Sunday 1980 from small premises in Sutton in Ashfield, Nottinghamshire. Today we make every part of our complete conservatory from our 32 acre site only a few miles from the original shop.



Aerial view of Synseal's 32 acre site in Nottinghamshire



Synseal's PVC resin storage



Testing in Synseal's laboratory



Synseal uses 100% virgin compound



Weather simulation

From here Synseal blends the highest grades of materials to produce PVC-U compound. This 100% virgin compound is fed directly into our 38 extrusion machines to create the sections from which your conservatory will be built. Of course, not every part of a conservatory is extruded, a lot of the conservatory is made up of PVC-U components. At Synseal we also design and manufacture these components from our injection moulding facility. Every section of the complete conservatory is designed to match perfectly, from the sill to the finial. We don't compromise by using bits from other systems, every part of your conservatory is designed to be complete.

*"...we can simulate gale force winds, extreme snow loading, and torrential rain...."*

At every step of production we ensure the highest quality. Extruded sections are accredited with British Standard Kitemark 7413, these standards are maintained 24 hours a day, seven days a week in our laboratory. The finished items are tested in Synseal's weather simulation facility; here we can simulate gale force winds, extreme snow loading, and torrential rain so that you can be sure that your complete conservatory will withstand the unpredictable nature of the weather in the UK!



FM 31451



BS 7412  
KM 30983



BS 7950  
KM 41324



PAS 24-1/BS7413  
KM57030



PAS 23-1/BS7413  
KM57030

Synseal Extrusions Ltd. holds a number of accreditations from recognised authorities (British Standards Institution and the British Board of Agrément). To maintain registration, licenses and certificates, periodic on-site audits are carried out by the regulatory authority to inspect systems and where necessary take product samples for independent third party testing. PAS 24-1 and PAS 23-1 is applicable to the Legend range.

\*The UK Conservatory report 2005: Markets and Forecasts from industry researchers Michael Rigby Associates.

\*\*The PVC-U Window Profile Industry in the UK Report 2005





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a complete  
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can you?

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Our policy is to continually improve products, therefore methods, materials and changes of specification may be made from time to time without prior notice.

We would like to thank our customers who very kindly gave us permission to photograph their homes.