The Global 600 Guide

Effective from October 2005

Specification
Survey
Assembly

Survey Information
Assembly Diagram
Assembly Guide
Component Diagrams
Stockists Order Form
Ensure you have all the relevant packages before opening them.

Read the installation guide in this booklet prior to fitting your roof.

Considerations should be given when constructing and installing the conservatory to:

“The Health and Safety at Work Act 1974”
“The Working at Height Regulations 2005”
“The Construction (Design and Management) Regulations 1994”
Together with all other relevant legislation to ensure safety precautions are in place.

Ensure the Window frames installed are done to the manufacturers recommendations and that they are square and plumb to the adjoining building.

Ensure silicone used is “low modulus neutral cure”.

NOTE: The global 600 product has been designed to suit a 70mm Window section.

重要：请阅读...

- 确保在打开它们之前您已拥有所有相关包
- 在安装天篷之前，阅读安装手册。
- 在建造和安装温室时应考虑以下事项：
  - “健康与安全 (工作) 行动法 1974 年”
  - “高空作业规定 2005 年”
  - “建设 (设计和管理) 规则 1994 年”
  - 以及所有其他相关立法，确保安全预防措施到位。
- 确保安装的门窗符合制造商的建议，且它们与相邻建筑对齐。
- 确保使用的是“低模量中性固化硅烷”。

注释：全球 600 产品已被设计用于配合 70mm 窗户部分。

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**WIDTH**

All widths shown are internal frame sizes. Measure distance between the internal faces of the window frames, then order roof equal to, or greater than the required size. If you order a roof larger than you require it will be necessary to modify the panel widths.

If internal frame width is greater than 6000mm you will need to order two roofs to be joined together.

E.g. To order a 8000mm wide roof, first add 600mm to the internal size required. 8000 + 600 = 8600mm, then order a combination of roofs equal to or greater than the size required. Order two roofs 1 @ 4200mm wide and 1 @ 4800mm.

If the roof is to fit to a wall, the effective width of the roof is increased by 30mm.

E.g. a 1200mm wide roof fitted against a wall on one side will have an effective internal width of 1230mm.

**PROJECTION**

All projections are internal frame sizes. Measure the distance between internal face of the window and house wall, then order the roof equal to, or greater than the required size. If you order a roof larger than you require it will be necessary to modify the panel and profile lengths.

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Colour codes for roof products:
- WHT = White
- W = Mahogany
- OAK-WHT = Light Oak on White
- CHW = Cherrywood
- CHW-WHT = Cherrywood on White
- W-WHT = Mahogany on White
  
i.e. XERC2OAK (for light oak)

Colour codes for gutter products, except XGC4:
- Y = White
- V = Brown
- L = Caramel
- XGC4: No suffix = White
  
for XGC4:  
V = Brown  
B = Brown  
C = Caramel  
*le. XGR19 (for white)  
le. XGC4B (for brown)

*requires disclaimer
1. ESTABLISH LENGTH OF FIRRING BOX

Ensure the conservatory footprint is square with the front parallel to the house wall.
Measure the internal frame projection of the conservatory.

The firring box is supplied in one standard length

4000mm firring length provided

2. CUT DOWN AND NOTCH FIRRING BOX

Transfer the internal frame size onto the firring box and cut the box to length. It is vital that you measure from the smaller end of the box!

With the box cut to length, the notch details dimensioned below require cutting out of the taller end of the box. Notching is a 2 step approach as shown below.

1. Notch the other external skin of the firring box to the sizes above

2. Notch the other 3 skins of the firring box to the sizes above

The eaves beam is supplied to suit a standard range of conservatory sizes and is prepared ready for 600mm rafter centres.

Should your conservatory be of a non-standard width, then the eaves beam will require cutting down to suit. The easiest method is to maintain a symmetrical roof by reducing the first and last rafter centres.

The 3 views shown left (A, B and C) depict the different situations that can occur.

A. Measure the length of the eaves beam provided then measure the external frame width. Deduct one from the other and cut half of this remaining dimension off each end of the eaves beam. Drill a new 9mm hole 70mm in from each end within the bolt slot on the eaves beam.

B. Firstly deduct 40mm from the side of the eaves beam that will go against the wall. Measure the length of remaining eaves beam then measure the external frame width. Deduct one from the other and cut half of this remaining dimension off each end of the eaves beam. Drill a new 9mm hole 70mm in from the frame end and 30mm in from the wall end.

C. Measure the length of the eaves beam provided then measure the distance between the walls. Deduct one from the other and cut half of this remaining dimension off each end of the eaves beam. Drill a new 9mm hole 30mm in from each end within the bolt slot on the eaves beam.

3. FIT FIRRING BOX

Run a silicone line along the head of the window and position the firring box. Secure the firring box using suitable fixings at 600mm maximum centres and 150mm max. in from each end. Repeat for opposite firring box.

Note: the wall end rafter assembly (shown circled above) does not form part of the standard roof kit. This assembly requires ordering separately.
5. CUT DOWN AND PREPARE EAVES BEAM

The eaves beam assembly will require cutting down if your roof is of a non-standard width.

* refer to the previous instruction on how much the eaves beam length should be reduced.

With the length of the eaves beam reduced, new end rafter fixing holes need to be drilled.

7. CUT DOWN AND PREPARE WALLPLATE

The wallplate assembly should be cut down when the conservatory width is non-standard.

* the deductions and drill hole positions should mimic the previously altered eaves beam.

8. FIT WALLPLATE

Offer the wallplate assembly to the wall so each end is resting into the notched cut firrings. The wallplate should be level.

Remove the rain excluder from the wallplate and secure the aluminium back to the wall with suitable fixings (600mm max. centres, 150mm max. from each end). Use the extrusion line on the aluminium as a guide for the fixing hole positions.

Refit the rain excluder.
9. CUT DOWN AND PREPARE RAFTERS

Should the projection of your conservatory be of a non-standard size, then the rafters will require cutting down in length.

To establish the new rafter length, measure the distance from the centre of the hole in the wallplate to the centre of the corresponding hole in the eaves beam, (see illustration above) and **add 123mm**. Alternatively, take the internal frame projection and add 81mm to get the rafter length.

10. FIT RAFTERS

If the eaves beam has been cut down in length then the polycarbonate support trim will need re-cutting and fitting into the eaves beam between the rafters. Ensure that the polycarbonate support adaptors are fitted into each end of the support trim prior to fitting the rafters.

Establish the new rafter length, (they should all be the same if the conservatory is parallel). Cut down the rafter and top and bottom caps to size.

Slide the aluminium rafter out of the way and drill a new hole in the bottom cap, 100mm up from the bottom, 23mm down from the top.

Refit the bolts to each end of the rafter

Secure the end rafter to the firring box using suitable fixings at 600mm centres, 150mm in from each end.

Complete the assembly of the roof skeleton

Locate each rafter into the wallplate and eaves beam holes so they span the conservatory projection.

Fasten each end with the washer headed nut provided, use a 13mm spanner.

Ensure that the aluminium rafter is flush with the rafter bottom cap before tightening.

Each rafter should be parallel with the next, square to the wallplate and eaves beam and also be at a 2.5 degree pitch.
11. FIT GUTTER

Fit the gutter brackets to the eaves beam at 600mm maximum centres, starting 200mm in from the ends. Ensure they are firmly clipped into position.

If you have cut down the length of the eaves beam, you will need to cut down the plastic gutter. (Gutter length = eaves beam length - 180mm).

Push the gutter into the clip on the back of each bracket then pull up on the front of each bracket to locate it under the lip on the inside front of the gutter.

Measure the distance between the gutter stop ends on the underside of the gutter. Cut the undergutter trim (XGIT2) to size and clip into the eaves beam.

Complete the eaves beam and gutter assembly by fitting the gutter stop ends, under-gutter trim and downpipe.

If the eaves beam has been cut down in length then the polycarbonate support trim will need re-cutting and fitting into the eaves beam between the rafters. Ensure that the polycarbonate support adaptors are fitted into each end of the support trim.

Cut down the XUGT180 to size and clip it onto the eaves beam beneath the gutter stop end.

12. PREPARE ROOF SHEETS

If the length of the rafters have been reduced to suit the size of your conservatory, the polycarbonate roof panels will need to be cut down in length by the same amount. Measure down from the end of the panel with the silver tape on. The length of the roof sheet should be rafter length +4mm.

Any panels that are cut down in size will require the swarf to be vacuumed out of the chambers.

Lengths of special breather tape are supplied to close off the gutter ends of the roof panels. Ensure the protective film on the panel is pulled back prior to attaching the tapes.

It is vital that the roof sheet end closer is sealed continually on both faces of the roof sheet.

Seal closed the open cavity at each end of the sheet closer.
13. FIT ROOF SHEETS

The rafter top caps should be the same length as the rafter. Lubricate the gaskets on the caps with silicone spray or soapy water, then knock on the caps starting at the wallplate end using a white faced rubber mallet.

Commence installation of the roof sheets working from one end of the conservatory to the other.

Once in position, the roof sheet end closer should be flush with the end of the rafter and the panel be central between the glazing bars.

When you are happy with the position of the roof panel, lift up the panel off the support trim, remove the film from the tape and press the panel down into position.

14. CLOAK END RAFTER

Sequence
1. Fit end rafter top cap
2. Fit wallplate end cap
3. Fit end rafter side clad
4. Fit end rafter end cap
5. Fit and seal eaves beam bung (XLPB1)
6. Fit (glue) eaves beam end cap (XEBC6)

Seal the rafter top caps to the face of the wallplate rain excluder.

End rafter side clad will require cutting to length (rafter length - 12mm) and will fit up to the wallplate end cap. The bottom of the clad will require a small notch around the gutter stop end.

15. FIT REMAINING CLADDINGS AND CAPPINGS

The rafter, its top and bottom cap and the roof sheet closer should be flush at the bottom. Secure the end cap with the screw provided (XM420), push on the cover cap.

Locate the wallplate end cap, ensure that the shoulder of the cap is sealed onto the wallplate top cap (see above). Secure the end cap with the machine screw provided (XM525), push on the cover cap.

Knock on the internal eaves beam cover and wallplate bottom cap using a small nylon headed hammer.

If you have altered the width of the roof, these will require cutting to size to suit the new internal frame width.
1. XLPW1 Wallplate used on all packs
2. XERC25 End Rafter Bar for Frames Top Cap used on all packs
3. XERC1 Plastic Clip Insert/Top Cap Gasket

*These items are only supplied with aluminium top caps. The quantities of these are relevant to the amount of top caps in pack.
component diagrams

- **XEBC8**
  - Eaves Beam
  - Internal Cover
  - used on all packs

- **XPS1**
  - Polycarbonate Support Trim
  - used on all packs

- **XLPB1**
  - Low Pitch Foam Bung
  - used on all packs

- **XLPEB1**
  - Eaves Beam End Cap
  - used on all packs

- **XBC6L/R**
  - Eaves Beam End Cap (Handed)
  - used on all packs

- **XLPSPEC35**
  - Polycarbonate End Closure
  - used on all packs

- **XBC1**
  - Rafter Bottom Cap
  - used on all packs

- **XLPT3**
  - Transom Rafter
  - used on 4m packs

- **XLPEC1L/R**
  - End Rafter Bar for Frames End Cap (Handed)
  - used on all packs

- **XJEC1**
  - Rafter End Cap
  - used on all packs

- **XPS2**
  - Polycarbonate Trim Support Adaptor
  - used on all packs

- **XM825**
  - Bar to Wallplate Fixing Nut & Bolt
  - used on all packs

- **XM420**
  - End Cap to Rafter Screw
  - used on all packs

- **XPOL Y35**
  - Polycarbonate
  - used on all packs

- **XPOL YTAPE**
  - Breather and Closure Tapes for Polycarbonate
  - used on all packs

- **XR21**
  - Downpipe Shoe
  - used on all packs

- **XR577**
  - 92.5° Downpipe Bend
  - used on all packs

- **XR19**
  - Downpipe Bracket
  - used on all packs

- **XDP1**
  - Downpipe
  - used on all packs

- **XSGT180**
  - 180° Under Gutter Trim
  - used on all packs

- **XR400**
  - Gutter Stop
  - used on all packs

- **XG4**
  - Eaves Gutter Bracket
  - used on all packs

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**pack quantities/lengths:**

These are shown in triangles such as these:

These appear above and to the left of the individual components.
### stockists order form

(please photocopy and use to fax)

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</tr>
<tr>
<td>G6WPE-420</td>
<td>Light Oak</td>
<td>qty</td>
<td></td>
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<tr>
<td>G6WPE-540</td>
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<tr>
<td>G6WPE-600</td>
<td>Light Oak</td>
<td>qty</td>
<td></td>
</tr>
</tbody>
</table>

**Required delivery date:**

**Company:**

**Account No.:**

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*global600 is a Synseal product

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*When ordering a *Fused on white roof* you will need to order the white roof first followed by the additional external cladding packs to suit the external colour required.

# Caramel gutter may only be ordered once a colour stability disclaimer has been signed.

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Synseal Extrusions Limited, Common Road, Huthwaite, Sutton-in-Ashfield, Notts. NG17 6AD

**TEL:** (01623) 443200  **FAX:** (01623) 555330

www.synseal.com

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