

These instructions are divided into sections highlighted by a white number/letter on a black background at the bottom corner of most pages (see opposite page for details); part lists, B-base, P-preparation, 1-side, 2-front gable, 3-rear, 4-joining the three sides together, 5-roof, 6-wall attachment, 7-vent, 8door, 9 -glazing, 10 -vent attachment, 11-door attachment, 12 -anchoring down, 13-optional louvre, 14 -optional shelf, 15-optional staging, 16-finishing touches, Door/s on side of structure rather than or in addition to the gable/s. If you need to contact us for assistance please refer to the relevant section/ s. If your building is longer than 12 ', i.e. has an extension then please also refer the separate extension manual.

## Safety Warning

- Glass and aluminium can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.
- Please remember that glass is fragile and should be handled with extreme care. Always clear up and dispose of any breakages immediately.
- Do not assemble the greenhouse in high winds.
- For safety reasons and ease of assembly, we recommend that this greenhouse is assembled by a minimum of two people.
- Please clear all lying snow from the greenhouse roof as it can cause the roof to buckle or collapse.


## Site Preparation

- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- IMPORTANT: Do not fix your building down until the building is fully assembled, including glazing.
- Avoid placing your greenhouse under trees or in other vulnerable locations.
- To minimise the risk of wind damage, try to select as sheltered a site as possible, e.g. beside a hedgerow or garden fence.


## Additional Considerations

- Please bear in mind that assembling your greenhouse can be time consuming. You may need to spread the construction over two or more days. We recommend that you avoid leaving the building partially glazed. If you ever have to leave your greenhouse half assembled and not anchored down, weigh it down with slabs or bags of sand to stop the wind moving it.
- You will find it helpful to prepare a large, clean and clear area in which to work in. A garage floor or flat lawn area is ideal.
- If you have arranged for someone to install your greenhouse for you, please check that all components are included. The components can be identified by their distinctive profiles, lengths and quantities detailed in the parts list (see next page).
- Anchoring down your greenhouse should be the final stage of construction (including glazing).
- Once installed your greenhouse requires little maintenance, but to maintain the smooth running of your door(s) WD40 or similar can be applied to the door wheels and lower door guides.


## Guarantee

- Your new Robinsons greenhouse is guaranteed for 10 years against faulty manufacture of the framework. This does not include glazing, moving parts, accidental damage or wind damage.


## UPDATE: Robinsons plastic / aluminium cover strips -

On a Robinsons building the glazing capping is in two parts. The lower plastic capping screws into the glazing bars pressing the glass down onto its rubber beading. The upper plastic / aluminium covers then need to be applied to cover the heads of the self-tapping screws. If you are struggling to press on the cover strips then we recommend the use of a rubber mallet or perhaps a wooden block and hammer, a short sharp tap onto the cover at one end is all that is needed to stretch the cover around the lower capping protrusions locking it into place. You can then either continue to use the mallet along the length of the cover or continue just using the palm of your hand. Once in the building and the edges are protected Robinsons 4 mm thick toughened safety glass is very strong and can cope with the vibrations caused by hitting the covers though we would not recommend that you hit the glass directly. Some of the aluminium cover caps have a hole in them at one end which is sometimes used to hang the parts for powder coating. You can if you wish use the hole to stop the covers from sliding in the roof using a glazing screw, note you will have to use a countersunk screw under the vents to avoid interference with the vent bottom.

| KEY SYMBOL | KEY DESCRIPTION |
| :---: | :---: |
| - | EXTERNAL VIEW |
| $\bigcirc$ | internal view |
|  | THINK |
|  | this section RELATES TO ANOTHER (e.g. 1 to 5 ) |
| $\sqrt{7}$ | CORRECT |
|  | DO NOT FIX DOWN: |
| ถை | twist to Lock |
|  | tighten |
| $\sqrt{617}$ | PUSH AND HOLD |
|  | CUT TO LENGTH |


| SECTION No | TITLE | ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS |
| :---: | :---: | :---: |
|  | PARTS LIST | Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections 1-12 shown below. Parts can also be identified by their profile pictures and stated lengths etc.. |
| P | BASE | Base dimensions and recommendations. Ensure that your base is level as this will make assembly of the building, especially the glazing of the roof much more straight forward. |
| $P$ | PREPARATION | Tools required. IMPORTANT: Use WD40 or similar in the glazing bar channels and insert the black glazing rubber prior to frame assembly. |
| 1 | SIDE | Take the side glazing bars 'D609' with the rubber inserted and the diagonal braces 'D604', use 10mm bolts to join them to the gutter and 15 mm bolts to the cills (note how the head of the bolt slides into each glazing bar during construction). |
| 2 3 | FRONT REAR | Again ensuring that the gable framework is rubbered-up follow the diagrams to assemble each end of the building. Make sure that you have inserted the extra bolts utilised in sections 4, 5 and 11. On the roof and side corner bars not every rubber channel will require rubber unless it is to be utilised in a partition (see separate manual and section P). |
| 4 | JOINING THE THREE SIDES | Take the side (1) and both gables (2 \& 3) and join them together on your base. It is a good idea to tie some ladders to the side to support them if you do not have anyone to hold them for you. |
| 5 | ROOF | Attach the ridge and then the rubbered-up roof bars ensuring that they are fully butted up to the ridge and down onto the gutter. Some tubular braces are supplied to add extra strength, they can be fitted now or later with crop head bolts. |
| 6 | REAR WALL ATTACHMENT | The main body of the frame is complete it can be attached to the wall. Make sure that the wall bars are vertical and the ridge is horizontal then drill and screw the building to the wall. Do not attach the base to the ground until section (12) as your building may not be square. |
|  | VENT | Once the vent is glazed add silicone to the vent sides and top. Stand the vent/s on their hinge (vent top) and then leave the silicone to set. |
|  | VENT SLAM | The slam bar 'D079' can be moved up and down between the roof glazing bars so that it can be butted down onto the pane of glass beneath, the autovent will be attached to it later on (10). |
| 8 | DOOR/S | Construct the door using the diagrams and then leave to one side ready for attachment in section (11). |
| 9 | GLAZING | Layout the bar cappings and covers around the building like a sundial checking that all is present and correct. You can also place the roof cappings in the gutters so they are closer to hand. You will notice that your roof cappings (D541 / D547) are in one long section however you can cut this into two sections if you wish due to the glass overlap in the roof. This will remove the bulge in the roof capping, however keep the roof cover strips (D544) full lengths for the neatest finish. The glass in the ends has to bevel on the black separator strip, this bevelling action allows the glass to tuck underneath the roof corner canopy. Use the capping and the self tapping screws to then hold the glass in place. The covers then enclose the screw heads giving a neat finish. A top tip is to not attach the door post capping (D814/D836) until you have fitted the door runner and threshold (11) to give you more room to manoeuvre. |
| $10$ | VENT <br> ATTACHMENT | Take the assembled vent and slide the vent hinge 'D866' into the end of the ridge allowing the vent the pivot open and closed. Vent stops go either side of the vent to stop any lateral movement (so insert stop / vent / stop). Attachment of the Bayliss XL autovents. |
| $11$ | DOOR <br> ATTACHMENT | Use the bolts inserted in section (2) to attach the upper door track. The lower door runner 'D860' and ramp threshold 'D087' push down and lock together. Please note that if you are putting the door on the left hand gable (as you look at wall) the door track and runner will go from the doorway towards the gutter and if you are putting the door on the right hand end the track and runner will open towards the wall. |
| 12 | ANCHORING DOWN | Now that the greenhouse is finished and the door and vent/s are operating without interference then you need to anchor the building down using 2 " rawl plugs and screws. Use a 7 mm masonry bit in a hammer drill to create the holes. |
| 13 | OPTIONAL LOUVRE | They attach to the building during the glazing process (9) like a piece of glass with a black separator above and below them. |
| 14 15 | OPTIONAL SHELVING <br> OPTIONAL STAGING | Robinsons integral cantilever staging and shelving attaches to the inside of the greenhouse frame using either square head bolts (insert four into each side glazing bar 'D609' during construction of the sides (1)) or rectangular 'crop head' bolts which can be fitted retrospectively (both sets of bolts accompany the shelving/staging). This system allows the height of either the staging or the shelf to be set at an operator specific height. Commonly the staging brackets are set 900 mm from the cills though you can alter this to suit the end user/s. The aluminium shelf / staging slats come in two lengths; (4'):1240mm 'D2002' and ( $6^{\prime}$ ':1860mm 'D2003'. These slats can combine to create any length of staging required, i.e. 4' +6 ' $=10^{\prime}$ etc... |
| 16 | FINISHING TOUCHES | Now that the main body of the structure is complete you can add; downpipe fittings, eave bungs. |



| Section | Part | Section | Size | 6lt | 6It | 6lt | 6lt |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ref | No. |  | $(\mathrm{mm})$ | 6 | 8 | 10 | 12 |


| D090+ <br> D347 lock <br> D301 |
| :---: | :---: | :---: | :---: | :---: |


|  |  | 10mm | 16 | 19 | 22 | 25 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 15mm | 31 | 32 | 33 | 34 |
|  | (v) | m6 | 47 | 51 | 55 | 59 |





GUIDANCE NOTE FOR ROBINSONS DWARF WALL GREENHOUSES．
FOOTTINGS
CONNCRETE STRIP FOOTINGS SHOULD BE A MINIMUM OF 400 mm
WIDE X 200mm DEEP．IF THE SITE IS ON MADE UP GROUND IT IS
IMPORTANT THAT THE FOOTINGS ARE CUT INTO THE COMPACTED
GROUND BELOW．
WHERE THE GROUND IS LIABLE TO MOVEMENT SUCH AS HEAVY
CLAY OR LOOSE SANDY SOIL REINFORCING SHOULD BE ADDED TO THE CONCRETE FOOTINGS．

WALLS IT IS MOST IMPORTANT THAT THE BRICKWORK IS IN ACCORDAN
WITH THE DIMENSIONS PROVIDED AND IS SQUARE LEVEL AND UPRIGHT，THE DIAGONAL MEASUREMENTS SHOULD BE EQUAL． WALLS CAN BE EITHER DOUBLE OR SINGLE SKIN．



PROMLEM．BRICKS SHOULD BE A GOOD QUALITY STOCK BRICK， SAND FACED FLETTON TYPE BRICKS ARE NOT SUITABLE．

THE DOOR THRESHOLD REQUIRES BRICK WORK ACROSS THE
OPENING WHICH SHOULD BE LEVEL WITH THE FINISHED FLOOR
LEVEL（F．F．L）OF THE GREENHOUSE．
 OF THE WALL FROM THE THRESHOLD LEVEL REQUIRE THE
HIGHEST ACCURACY AND ARE MOST IMPORTANT SO THAT THE
 A WOODEN TEMPLATE TO CHECK THE DOOR APERTURE DIMs．

 WกWININ $\forall$ HLIM
 THE DOOR THRESHOLD OPENING．
Property of＇Robinsons Greenhouses＇© 2015 Robinsons


50mm MINIMUM




| Part No | mm | Quantity |
| :---: | :---: | :---: |
| D975 | 1897 | 1 |
| D043 | 1894 | 1 |
| D609 | 1160 | 2 |
| D604 | 1316 | 2 |
| D174 |  | 2 |
| M6- <br> 10mm |  | 2 |
| M6- <br> 15mm |  | 4 |
| M6- <br> NUT |  | 6 |
| Rubber | 1000 | 5 |

QaO $\square$

| $8 \times 1$ DWARF |  |  |
| :---: | :---: | :---: |
| Part No | mm | Quantity |
| D974 | 2517 | 1 |
| D021 | 2514 | 1 |
| D609 | 1160 | 3 |
| D604 | 1316 | 2 |
| D174 |  | 2 |
| M6- <br> 10mm |  | 3 |
| M6- <br> 15mm |  | 5 |
| M6- <br> NUT |  | 8 |
| Rubber | 1000 | 7 |
| ------------ |  |  |


| $10 \times 1$ DWARF |  |  |
| :---: | :---: | :---: |
| Part No | mm | Quantity |
| D979 | 3137 | 1 |
| D022 | 3134 | 1 |
| D609 | 1160 | 4 |
| D604 | 1316 | 2 |
| D174 |  | 4 |
| M6- <br> 10mm |  | 4 |
| M6- <br> 15mm |  | 6 |
| M6- <br> NUT | 0 | 10 |
| Rubber | 1000 | 10 |



| $12 \times 1$ DWARF |  |  |
| :---: | :---: | :---: |
| Part No | mm | Quantity |
| D978 | 3757 | 1 |
| D023 | 3754 | 1 |
| D609 | 1160 | 5 |
| D604 | 1316 | 2 |
| D174 | 8 | 4 |
| M6- <br> M6m |  | 5 |
| M6- <br> 15mm |  | 7 |
| M6- <br> NUT |  | 12 |
| Rubber | 1000 | 12 |









| $6^{\prime}$ |  | 4 |
| :--- | :---: | :---: |
| Part No | mm | Quantity |
| D976 | 1897 | 1 |
| D951 | 1915 | 2 |
| D962 | 1890 | 1 |
| RUBBER | 1000 | 8 |


| $8^{\prime}$ |  | 6 |
| :--- | :---: | :---: |
| Part No | mm | Quantity |
| D973 | 2517 | 1 |
| D951 | 1915 | 3 |
| D113 | 2510 | 1 |
| RUBBER | 1000 | 12 |



| Part No | mm | Quantity |
| :---: | :---: | :---: |
| D981 | 3137 | 1 |
| D951 | 1915 | 4 |
| D918 | 3130 | 1 |
| RUBBER | 1000 | 16 |



| Part No | mm | Quantity |
| :---: | :---: | :---: |
| D977 | 3757 | 1 |
| D951 | 1915 | 5 |
| D034 | 3750 | 1 |
| RUBBER | 1000 | 20 |




|  |  | $6 \times 6$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part No |  | mm | Quantity |  |  |  |
| SYSCR3 |  | 75 | 9 | 10 | 11 | 12 |
| SYRAWL |  |  | $6 \times 12$ |  |  |  |



There are various methods for attaching your greenhouse frame to its wall.

1) Drill through the vertical wall bars with a 7 mm drill/hammer drill using a 7 mm masonry bit, Use 3 " screws to secure the wall bars.
2) Drill through the vertical wall bars with a 7 mm drill bit and enlarge the inner hole to 10 mm . Use 2" screws to secure the wall bars hiding the screw heads inside the bars to give a neat finish.
3) Use L-shaped brackets and 2" screws to secure the frame to the wall similar to anchoring the greenhouse down (e.g. section 12).


(5)



| Part No |  | $\mathbf{m m}$ | Quantity |
| :--- | :---: | :---: | :---: |
| SY- <br> BOLM6X11 |  | 10 | 2 |
| SY- <br> BOLM6X15 |  | 15 | 2 |
| SYBOLM6 <br> X11CROP |  | 10 | 2 |
| SYNUTM6 |  | N/A | 4 |


| Part No |  | $\mathbf{m m}$ | Quantity |
| :---: | :---: | :---: | :---: |
| D079 <br> PLUS <br> FLUFF | LI |  |  |
| D114 |  | N/A | 2 |

(6)


$\qquad$





9

| D624 | $M$ | $610 \times 550$ | 1 |
| :---: | :---: | :---: | :---: |
| D729 | $L$ | $525 \times 100$ | 6 |
| D101 / <br> ROSEPS | $H$ | 610 long | 1 |








| Part No |  | $\mathbf{m m}$ | $\mathbf{Q}$ |
| :---: | :---: | :---: | :---: |
| D864 |  | 590 | 1 |
| D084 |  |  |  |
|  |  | 1270 | 1 |
| D083 |  | 1270 | 1 |




| Part No |  | $\mathbf{Q}$ |
| :---: | :---: | :---: |
| D860 |  | 1 |
| D087 |  | 1 |

(5)






| Part No |  | $\mathbf{m m}$ | Quantity |
| :---: | :---: | :---: | :---: |
| D168L | D168R (handle) |  | 552 |
| D165 |  | 552 | 1 |
| D166 |  | 512 | 2 |
| FS6013 |  | 12 | 4 |



Example: $2 \times 4$ ' 3 Slat shelves 'ST0304' $=8$ ' run







(5) 232


Please be aware that this is a multi-national manual, if you spot any errors or have any constructive comments regarding the manual please email james.spooner@greenhousepeople.co.uk and I will make the necessary amendments.
Whilst the information contained in this booklet is accurate at the time of publication, changes in the course of Robinsons policy of improvement through development and design might not be indicated. We point out this fact to avoid any infringements of the Trade Descriptions Act and also to advise that Robinsons Greenhouses reserve the right to change specifications and materials without prior notice.

In addition any photographs of completed buildings would be most appreciated to add to our portfolio.
$\qquad$
www.robinsonsgreenhouses.co.uk
To contact Robinsons Customer Services email us at sales@robinsonsgreenhouses.co.uk or call us on 01782385409.

Our address is Robinsons Greenhouses, Unit 19 Blythe Park, Cresswell, Stoke-on-Trent, Staffordshire, ST11 9RD

