

ASSEMBLY INSTRUCTIONS

Value 3/4 Growhouse

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Video instructions:

Helpful video clips are available at
www.garden-products.co.uk/instructions

Please keep all packaging
until installation is complete



YOU WILL ALSO REQUIRE CLEAR,
OUTDOOR SILICONE SEALANT TO
BUILD THIS FRAME

Video instructions:

Helpful video clips are available at

www.garden-products.co.uk/instructions

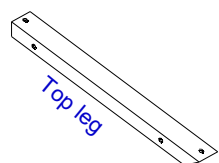
Can we improve?

We hope that you find our
instructions clear and concise.
If you have any suggestions for
improvements email:

instructionfeedback@garden-products.co.uk

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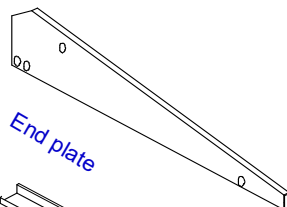


Top leg

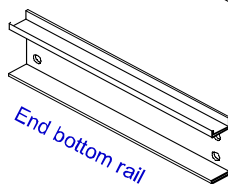


Back Leg

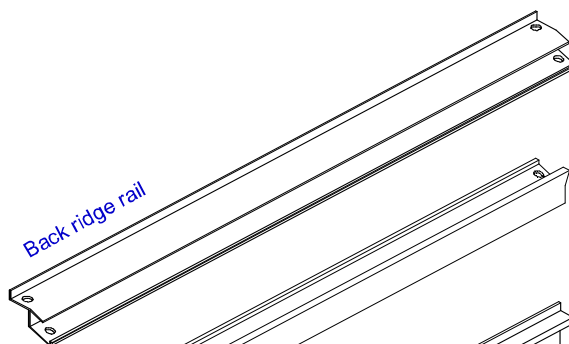
Front Leg



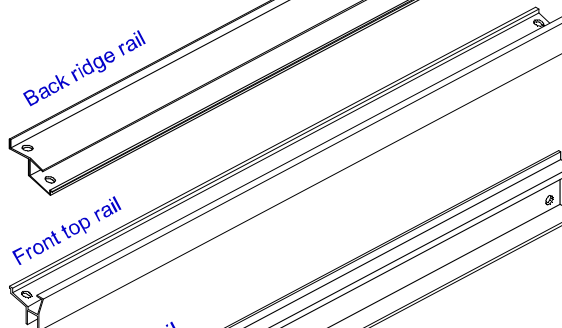
End plate



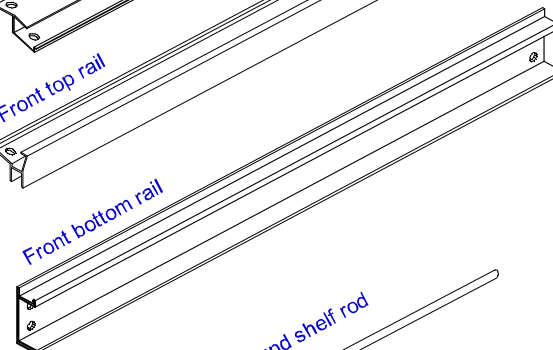
End bottom rail



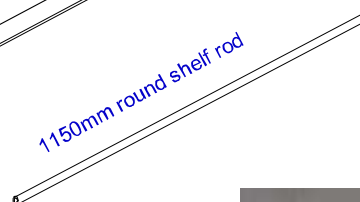
Back ridge rail



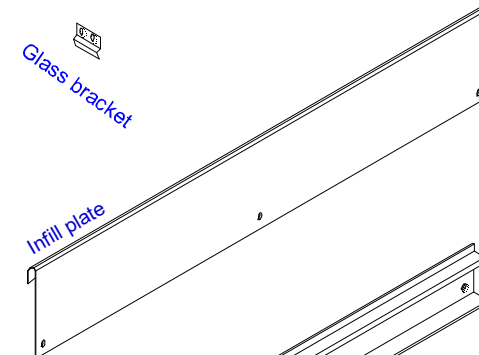
Front top rail



Front bottom rail

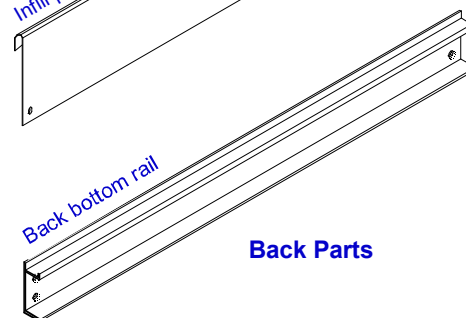


1150mm round shelf rod



Glass bracket

Infill plate



Back bottom rail

Back Parts

Leg parts	
Back leg	2
Front leg	2
Top leg	2

End parts	
End plate	2
Bottom rail	2

Long parts	
Ridge rail	1
Top rail	1
Bottom rail	2
Infill plate	1
1150mm shelf rod	6



Powder Coated models only
These have washers supplied to protect the coating - refer to instructions in washer pack

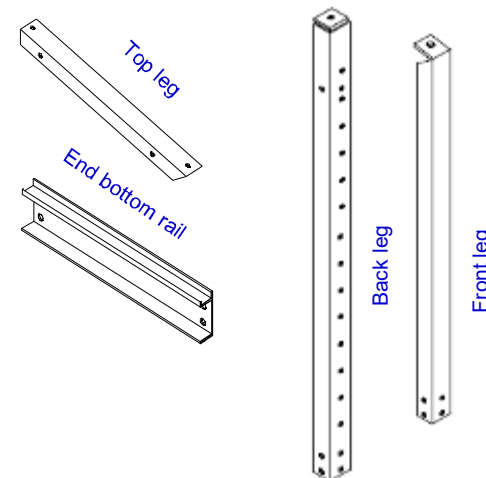
Additional Items		
Handle 585mm		4
Screw pack	SCREW-FB3	1
Ground fixing kit	FR-AKG	1
Shelf pack	S-DVW	1
Black 12mm channel liner	W65-5M	1
Black 16mm channel liner	W66-2M	1
Allen Key	SCREW-FB3	1



Top leg rests against the **FLAT FACE** of back leg – it is not bolted to the back leg



Back leg the wrong way round

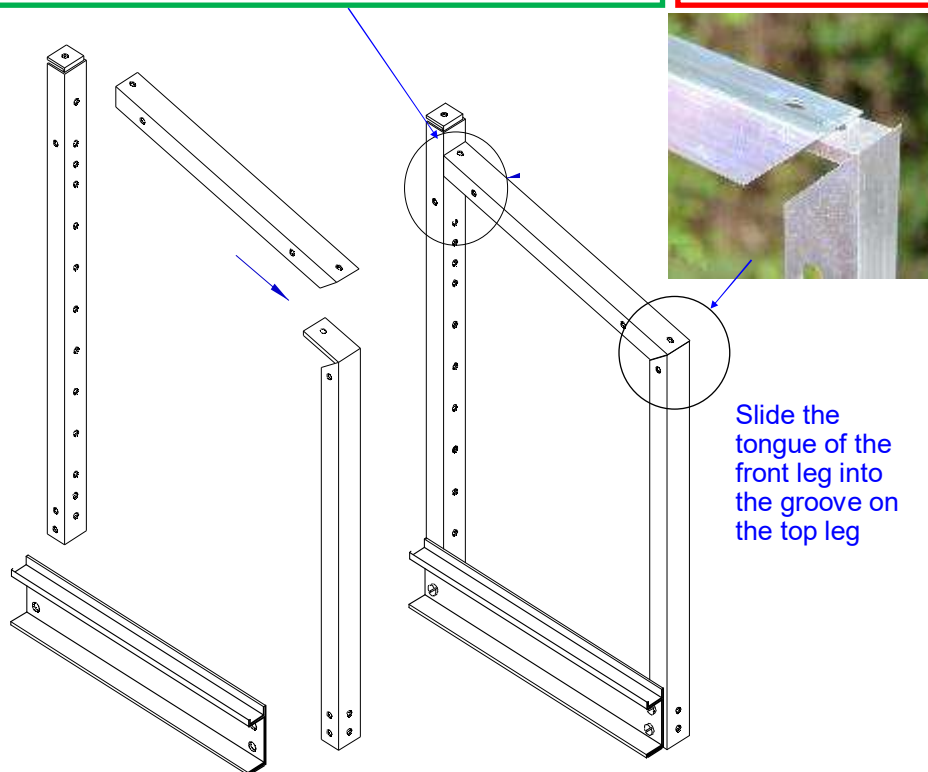


YOU ALSO NEED:

10mm BOLTS	4
NUTS	4
Located in pack: SCREW-FB3	

PARTS NEEDED FOR EACH END

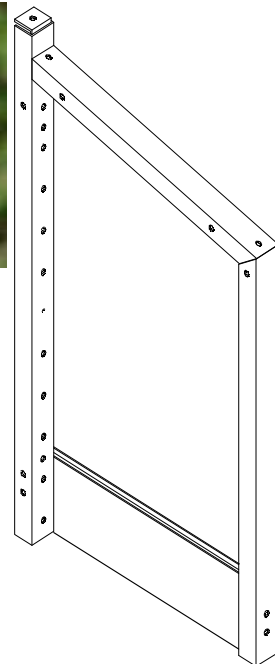
- 1 Make up the LEFT hand end as shown.
- 2 Make up the RIGHT hand end as shown.



EXPLODED VIEW

FINISHED LEFT HAND END

Slide the tongue of the front leg into the groove on the top leg



FINISHED RIGHT HAND END

Note: Fit the 4 bolts for the bottom end rails loosely, then push the rail **upward** before nipping up the bolts. This will ensure the glass fits properly.

DO NOT FULLY TIGHTEN BOLTS AT THIS STAGE

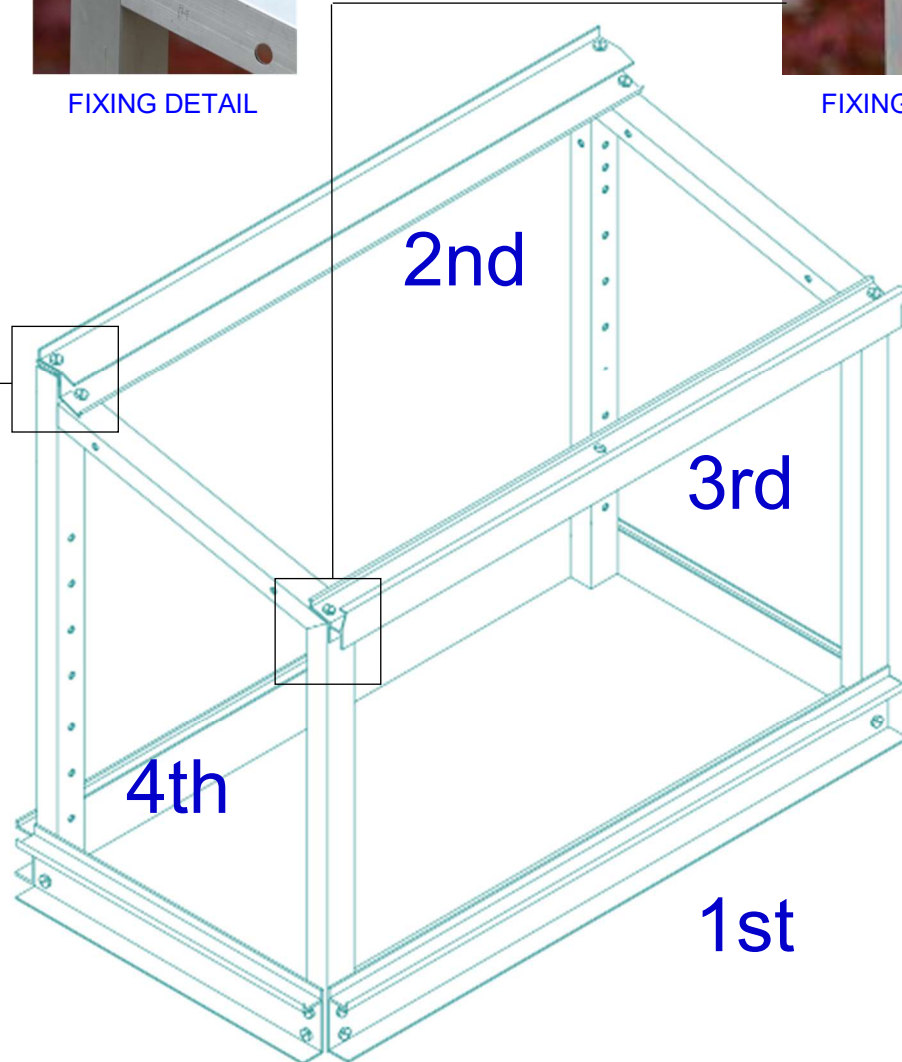
END SECTIONS



FIXING DETAIL



FIXING DETAIL



PARTS NEEDED



YOU ALSO NEED:

10mm BOLTS	8
20mm BOLTS	2
30mm BOLTS	4
NUTS	14
Located in pack: SCREW-FB3	

- 1 Bolt on 1st and 2nd rails using **10mm** bolts.
- 2 Bolt on the 3rd rail using **20mm** bolts.
- 3 Bolt on back bottom rail. Push **30mm** long bolts through the back bottom rail and back leg, before passing through the leg and fitting nuts on the inside of the frame.

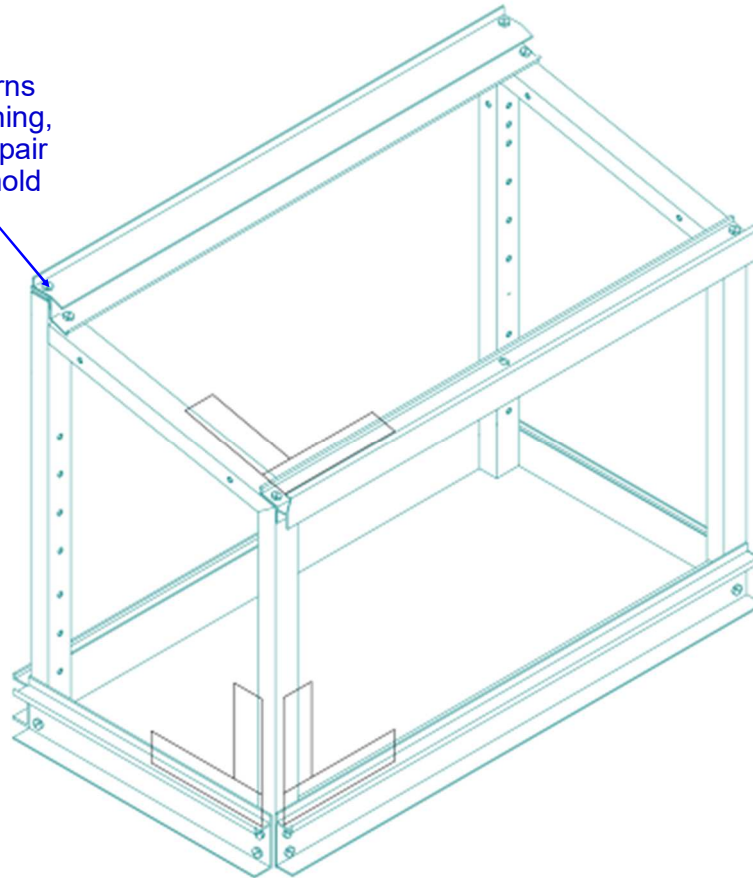
DO NOT FULLY TIGHTEN BOLTS AT THIS STAGE

1 SQUARING THE FRAME

Carefully use the squaring card to square the unit up as shown. Slacken the nuts if necessary to move the framework into a square position.

IT IS ESSENTIAL TO GET THE FRAME SQUARE

If this nut turns while tightening, use a small pair of pliers to hold the nut



2 Once the frame is completely square fully tighten up all the nuts and bolts.

FULLY TIGHTEN ALL BOLTS
otherwise the framework will quickly work loose.

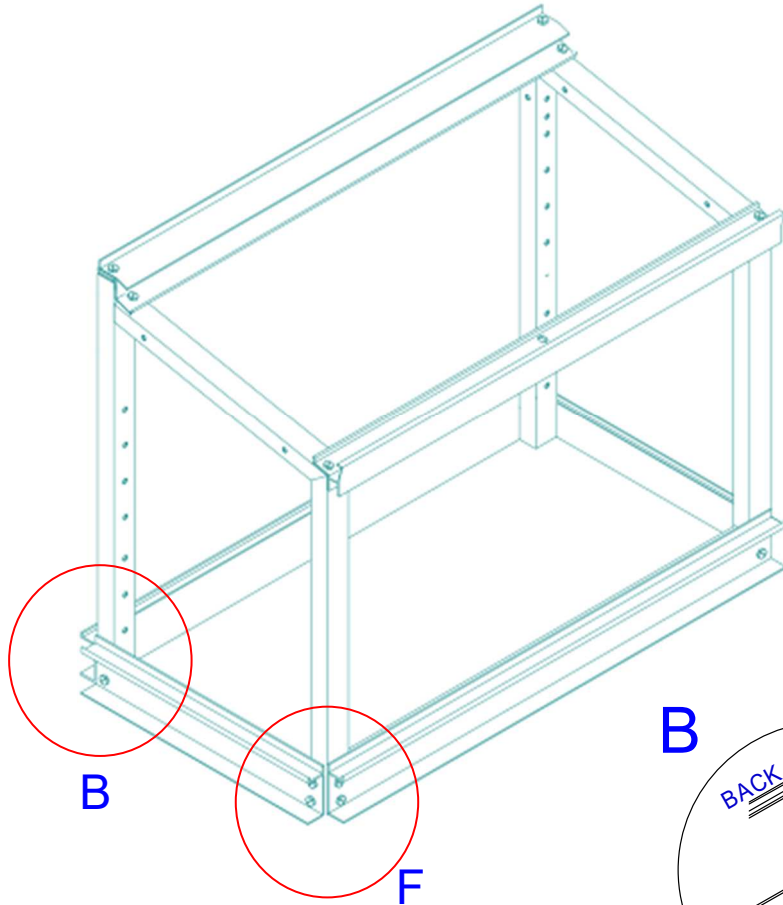
PERIODICALLY CHECK THE TIGHTNESS OF THE BOLTS

1

FIXING TO FLOOR

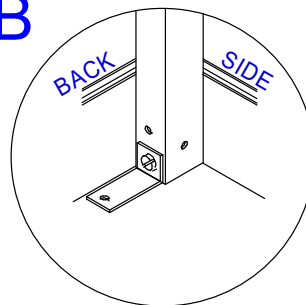
Fit the four 'L' brackets to the front and rear legs using a nut and bolt.

Tip: Turn the framework upside down to make this easier



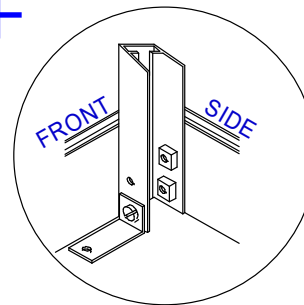
WEAR APPROPRIATE
SAFETY EQUIPMENT
WHEN DRILLING OR
HAMMERING

B



INSIDE VIEW OF BACK
LEG SHOWING FIXING

F



INSIDE VIEW OF FRONT
LEG SHOWING FIXING

PARTS NEEDED

Ground Fixing Pack FR-AKG

2

Place the framework in its final position and drill through the bracket with a 6mm masonry drill bit, to a depth of 35mm. Insert the red rawlplug, through the bracket and into the concrete.

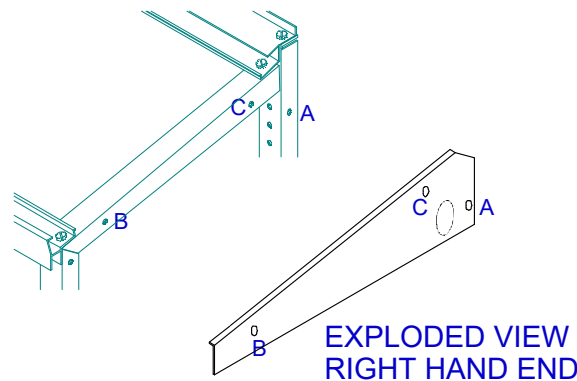
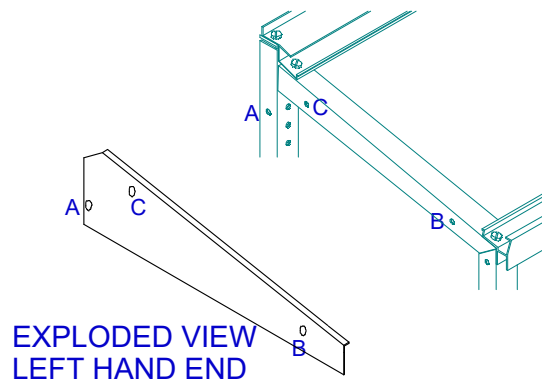
Using a woodscrew, screw through the 'L' bracket and into the rawlplug.

Repeat for other brackets.



Completed front bracket

If the Growhouse will be located
against a wall, you may wish to fit
the infill plate and rear glass before
bolting down.



**PARTS NEEDED
FOR EACH END**

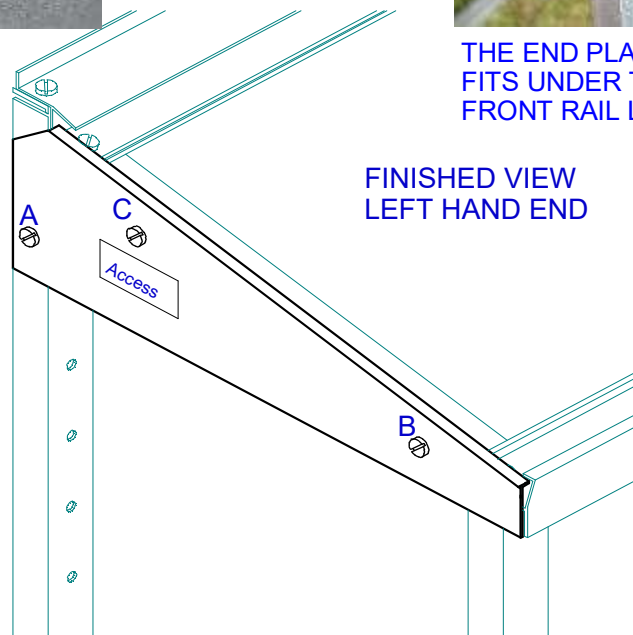
YOU ALSO NEED:

10mm BOLTS	3
NUTS	3
3mm NYLON SPACER	2
BLACK GROMMET	1
Located in pack: SCREW-FB3	

FIXING THE END GLASS PANELS

- 1 To provide more rigidity to the end panel of glass, use some clear outdoor silicone sealant to stick the two end sheets of glass in place.
- 2 Make sure the frame is clean and dry before running a bead of silicone down the front and back leg.
- 3 Place a sheet of 610mm x 950mm glass into the channel of the end bottom leg, then gently push the glass against the sealant.
- 4 Once the glass has firmly stuck to the frame, fit the end plates.

Note: If the glass does not fit under the end plate, slacken the bolts on the bottom end rail and push it upwards.



- 1 **Remove any plastic protective film** from the end plates and put 'Access' sticker on.
- 2 Bolts 'A' and 'B' go through the end plate THEN have a 3mm spacer fitted BEFORE fitting to the frame.
- 3 Bolt 'C' only goes through the end plate and the frame.
- 4 Repeat for the other end.
- 5 One end plate will have a large hole in. Fit the black grommet into the hole.

1

Remove the plastic protective film from the infill plate. 10mm bolts goes through the infill plate from the outside. Put a 3mm nylon spacer on each bolt before pushing on the glass bracket, then fit the nut.

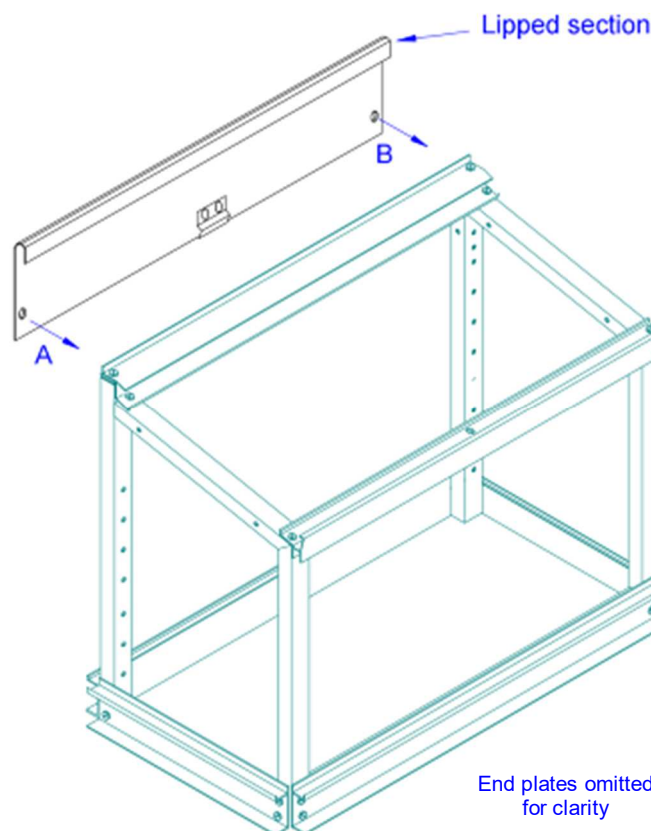
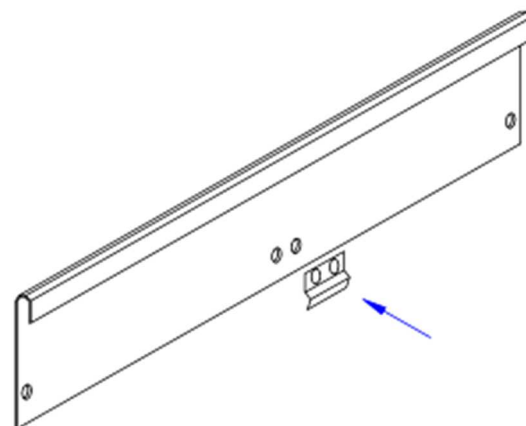
Glass bracket is **INSIDE** frame and will clamp onto the glass once the glass is in place.



Nylon spacers on infill plate



Completed bracket inside Growhouse



End plates omitted for clarity

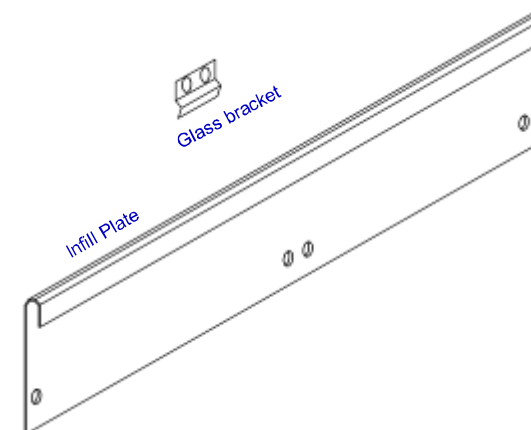
2

Place the lipped section over the upstand on the back rail. Push a long bolt through hole A, then fit a 3mm and a 20mm nylon spacer. The spacers fit inside the 'U' of the leg.

Push the bolt into the frame and fit a nut on the inside of the frame. Repeat for hole B at the other end.

Do not overtighten these bolts.

PARTS NEEDED



YOU ALSO NEED:

10mm BOLTS	2
30mm BOLTS	2
NUTS	4
20mm NYLON SPACER	2
3mm NYLON SPACER	4
Located in pack: SCREW-FB3	



Nylon spacers on infill plate

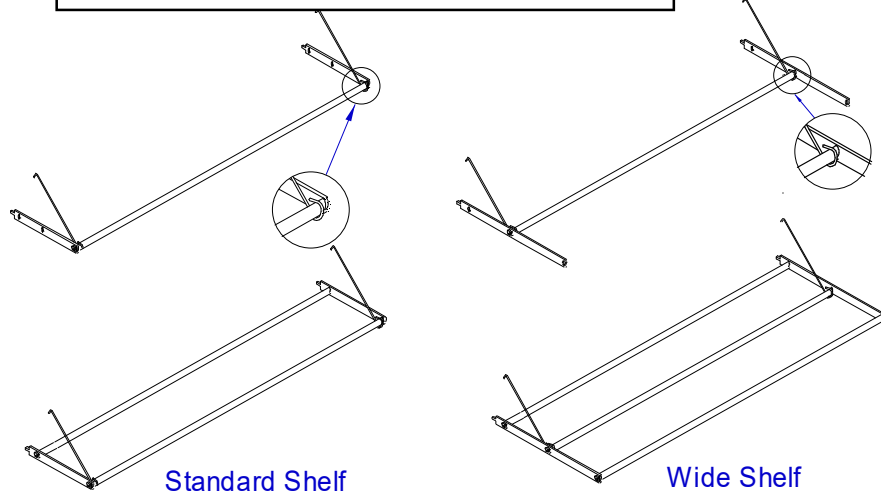
FB4 models have 2 wide full length shelves as standard.

As an option, a standard shelf unit can also be added.

- 1** Lightly tap rawlplug inserts into both ends of the tubular aluminium shelf rods with a hammer.
- 2** Slide the two hooks onto the tube, as shown then screw the support bracket on at each end.
- 3** Fit the other rods to the shelf.

5-hole strap

Fit the rods to the holes 'F'



Standard Shelf

Wide Shelf

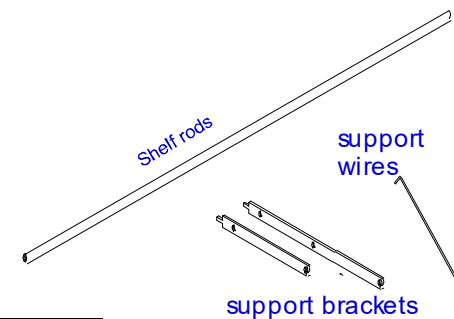
Note: A Pozidrive screwdriver will fit the screws best

FITTING



Hook support wire into top hole, then swing shelf upward into the adjacent hole below.

PARTS NEEDED



YOU ALSO NEED PER SHELF ROD:

RAWLPLUGS	2
1" WOOD SCREW	2
Located in packs: S-DVW	

When the shelves are not needed they can either be removed or they can be unhooked from the lower fixing hole and hung flat against the back using the wires.



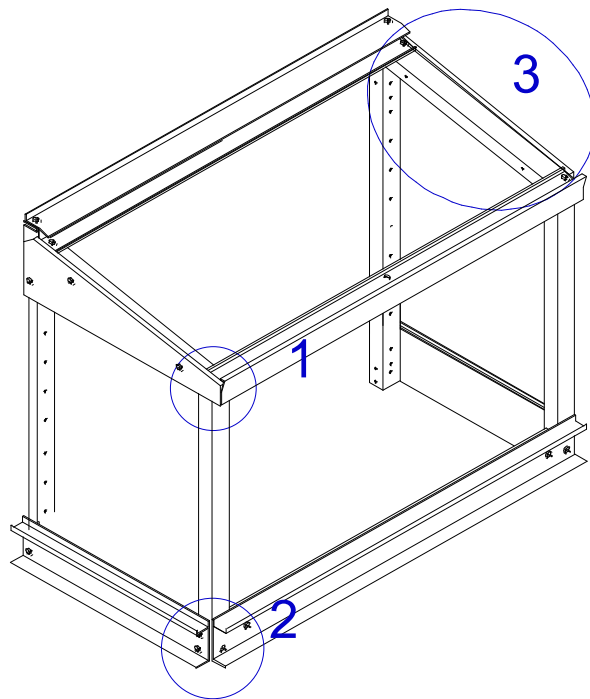
Bottom shelf hung flat against the back



Optional shelf cover shown

SHELVING

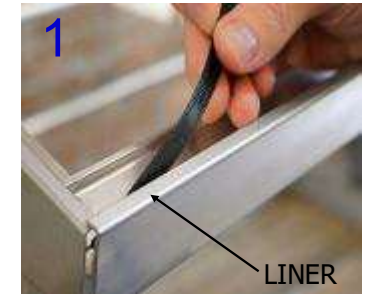
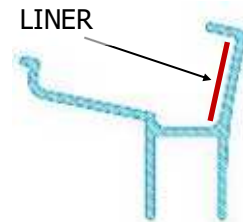
FITTING THE CHANNEL LINER



Before sticking the tape, clean the aluminium of any oil traces to promote adhesion.

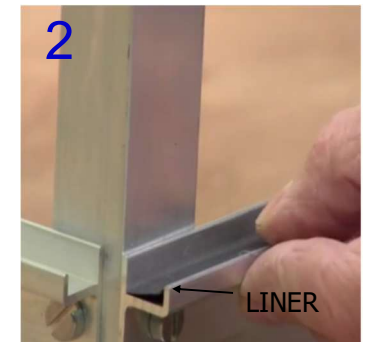
- 1 The black 16mm channel liner (W66-2M) fits on the inside vertical face of top FRONT rail only. This is a loose fit so strips of double sided tape are included to secure it until the glass is in place.

TIP: Do not use the red covered sticky pads that are for the handles

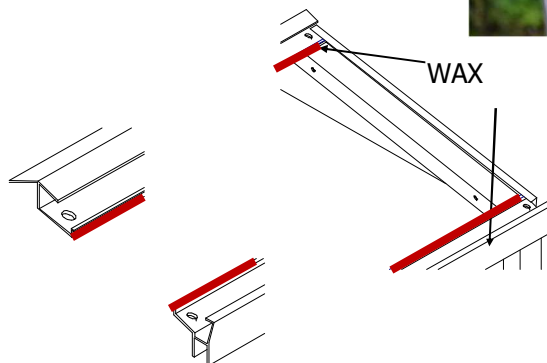


- 2 The black 12mm channel liner (W65-5M) goes in the FRONT bottom rail only. Using the strips of double sided tape press liner down so that it LIES FLAT at the bottom of the channel - trim with a knife if necessary.

THE DOORS WILL NOT SLIDE PROPERLY IF THE LINER IS NOT FLAT



- 3 To make the top glass slide more easily, rub candle wax onto the glass bearers. Also wax the black 12mm and 16mm channel liners.



Removing the tape

Peel the **narrower** backing tape off first, this will expose the sticky pad, allowing it to be stuck onto the liner.

Tip: Bend the backing tape back on itself to make it easier to peel the sticky pad off.

Place pads regularly down the length of the liner.

When ready, peel the **wide** backing pads off the tape and stick the liner to the aluminium.



On the next page are instructions on how to fit the handles to the glass

When fitting the handles, place the glass on a table or timber battens. **NEVER PLACE THE GLASS DIRECTLY ON CONCRETE OR SLABS**

Always fit the handles to the left hand side of the glass sheet

DO NOT lift the glass by the handle

If possible, leave the handles overnight in a warm place to promote the curing of the adhesive

WARNING

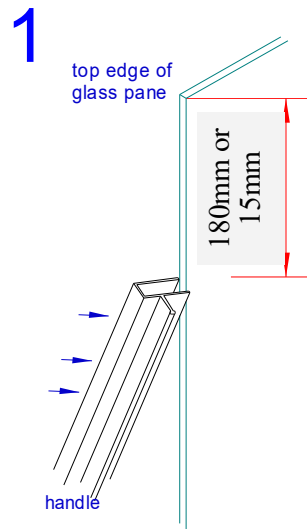
If broken, toughened glass will fragment safely.

If the edges are knocked or chipped the glass will spontaneously fragment. This is a natural occurrence due to the toughening process. Care should be taken when moving or cleaning, not to damage the edge of the glass.

When placing the glass in the frame, ensure that the glass is securely placed in the runners before letting go of the glass.

610mm sheets requiring handles	2
950mm sheets requiring handles	2

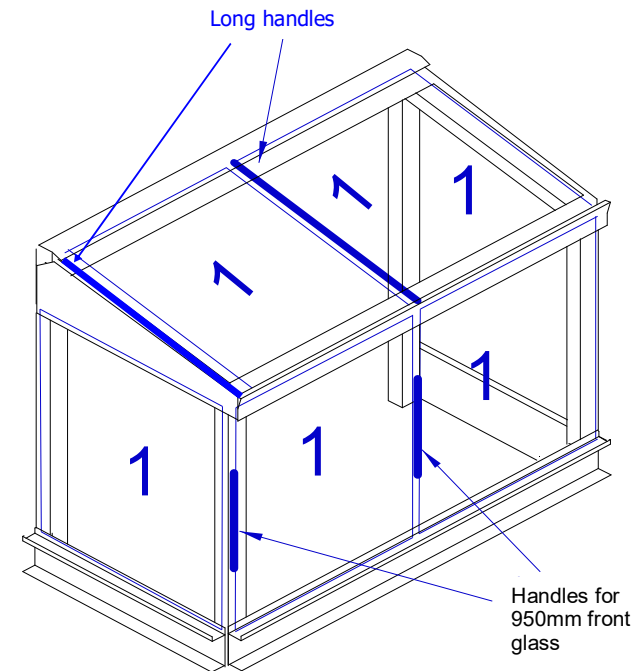
GLASS	FB4
610mm x 610mm	2
950mm x 610mm	6



For the 950mm sheets, place the handle 180mm from the top edge of the glass. For the 610mm roof glass, place the handle 15mm from the top edge.

TIP: Always grip the handle in the **CENTRE** when sliding

TIP: Do not try and slide the handle on from the top or bottom



End and back glass have no handles



1

Ideally work on a table or a workbench.
It is best the work inside to keep the pads warm and dry.



2

Mark the glass 15mm from the top edge for sheets.
Large front sheet handles are 180mm from the edge.



3

Open the sachet and wipe the glass where the tape will stick.



4

Replace the cloth in the plastic bag to prevent evaporation.



5

Peel the pad off the backing.
Each handle has 2 pads (top and bottom of handle).



6

Press the pad down firmly to ensure good adhesion to the glass.



7

Peel the cover strips off all of the pads.



8

Using the pen mark as a guide, fit the handle.
Slide the two arms of the 'U' over the edge of the glass.



9

Work the handle on with your hands.



10

Use one of the glass battens to gently tap the handle down.



11

Work the handle on all the way down the glass.
Use the timber batten if necessary.



12

Use the timber to make sure the handle is flat.
Leave overnight in the warm to fully cure the adhesive.

FITTING HANDLES

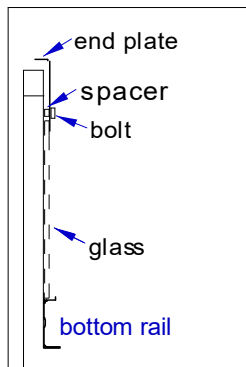
Fit the handles to the glass before fitting into the frame. Ensure the handles are always on the left hand side of the glass.

BACK GLASS

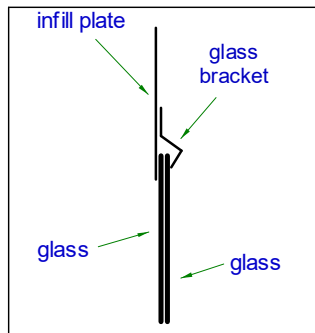
Slacken the four infill plate bolts and gently slide the first sheet in from the rear corner. Gently slide the other sheet in from the other end. The two sheets will overlap in the centre, behind the glass bracket (B). Carefully retighten the bolts. Fit a ring wedge (D) into the bottom glass channel - 1 per sheet.

FITTING THE GLASS (FRONT AND TOP)

To fit the glass push the sheet into the deeper top channel, then lower into the bottom channel (C). Make sure the glass is firmly in the bottom channel before letting go. Always start glazing at the left hand end and overlap each subsequent pane by 1" (2cm)



A. End glass detail



B. End glass overlap detail



B. Glass bracket



C. Fitting the glass



D. Ring wedge
(Located in pack: SCREW-FB3)

GLASS STICKS TOGETHER	This is normally due to the handles not being put on the correct side of the glass. See page 10 for details of where the handles should be fitted to the glass.
HANDLES COME OFF	If handles come off frequently either purchase some new handles and sticky pads from Access or use a glue such as 'liquid nails' or 'no more nails' to permanently glue the handles to the glass.
SHELVES WILL NOT FIT INTO THE BACK LEGS	Check that the back legs have been fitted the right way round - see page 2.
FRAMEWORK MOVES AND GLASS FALLS OUT	If the nuts and bolts haven't been properly tightened, the framework will quickly become loose and move, even in light winds. In strong winds the glass will fall out. Remove the glass, re-square the frame, then fully tighten all of the nuts and bolts.

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PERIODIC MAINTENANCE Every Spring take the glass out of the greenhouse and wash glass and framework with warm soapy water. When inserting the glass, always check that the glass is properly seated in its top and bottom channels before letting go of the sheet.

CHECK THE TIGHTNESS of all bolts regularly, especially in very windy areas or powder coated frames.

CROP ROTATION Suggestions for suitable crops and sowing dates given in the free Access Growing Guide

VENTILATION In cold weather gentle ventilation can be given by sliding the front sheets of glass to give 2-3" (5-8cm) gap at each corner. In warmer weather allow a gap on the top sheets as well. In very hot weather open all the sheets of glass. To ensure that the correct temperature is maintained use a thermometer inside the greenhouse. You can completely remove the top sheets in summer.

GALES The greenhouse must be kept fully closed in rough weather.

GLASS CHANNELS Ensure that this is kept free from debris and allows the glass to slide smoothly. Periodically lubricate the running edge of the glass with a wax candle.

SNOW If snow is very heavy - avoid letting it build up on the roof

SHELVING Stand pot plants on saucers, or use optional shelf covers which incorporate a layer of capillary matting to absorb excess water when watering. Alternatively, stand the pots in empty seed trays.

SITING Site on the sunniest place available. Anything from East through South to West. is suitable. If it has to face North, don't despair, it will be warmer in than outside! If you can fix to a brick or stone wall, you will get extra heat storage during the day.

REDUCING THE LENGTH If it is just too long for your ideal spot, it can be shortened. Re-drill the holes at one end of the rails - moving them in by the amount you need to remove. Hacksaw off the surplus aluminium and shorten the shelf rods. The glass will merely overlap more - don't try to cut toughened glass!