

ASSEMBLY INSTRUCTIONS

City Growhouse

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Video instructions:

Helpful video clips are available at

www.garden-products.co.uk/instructions

Can we improve?

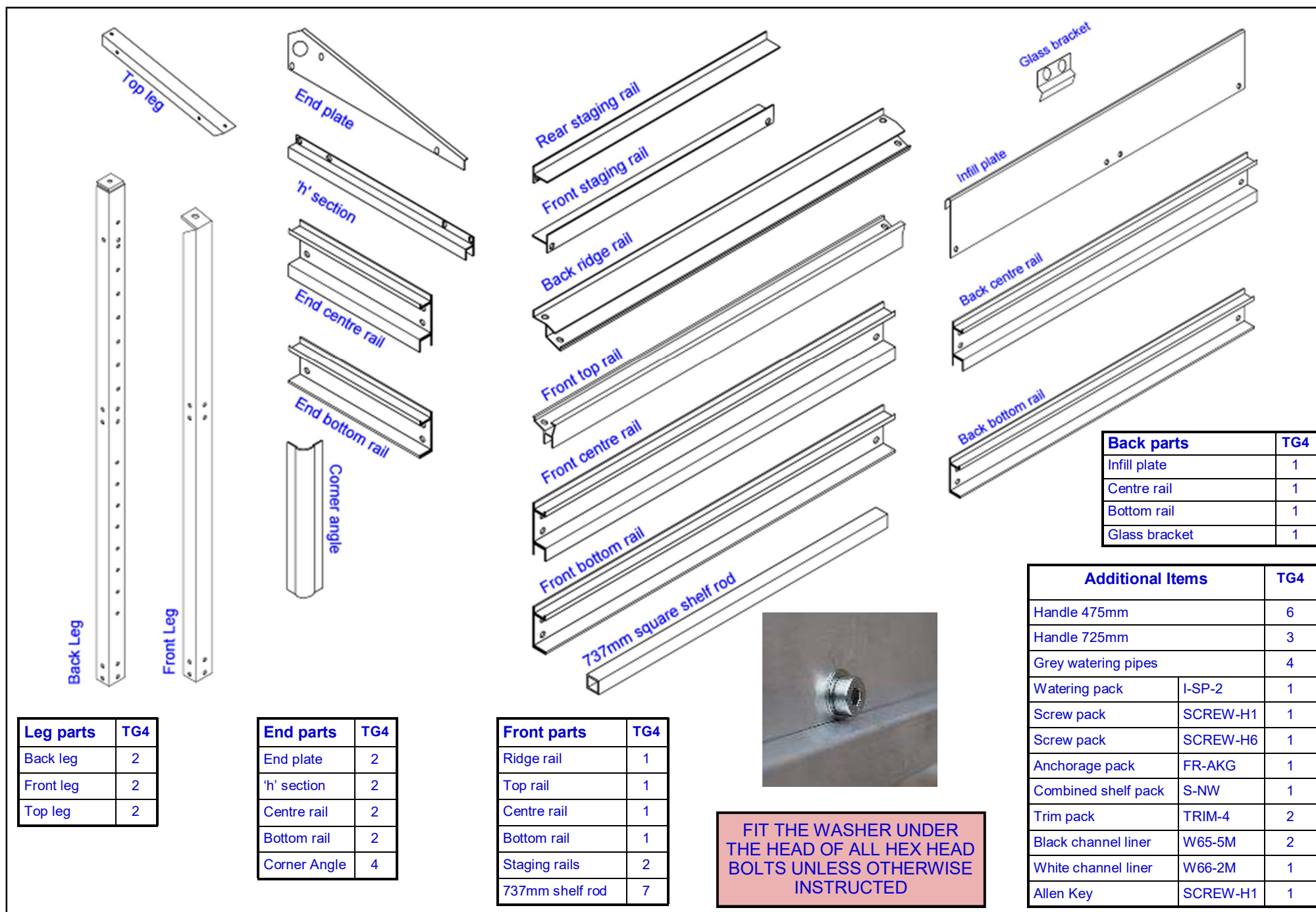
We hope that you find our instructions clear and concise. If you have any suggestions for improvements email:

instructionfeedback@garden-products.co.uk

**Please keep all packaging
until installation is complete**

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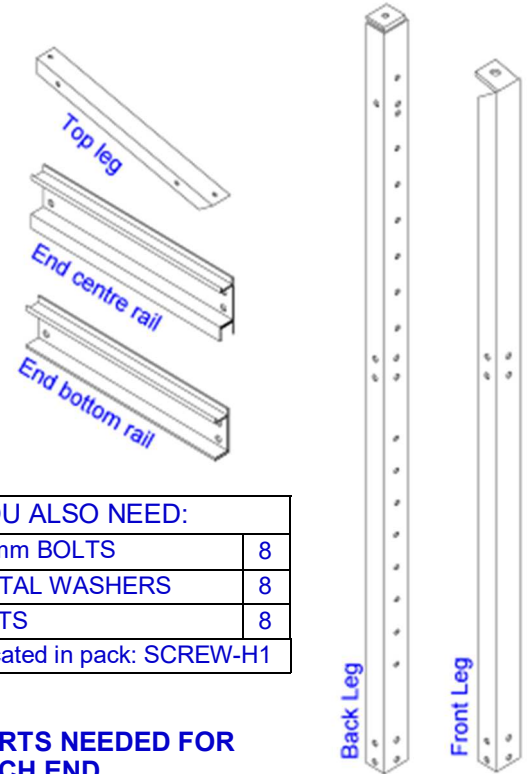




Top leg rests against the **FLAT FACE** of back leg—it is not bolted to the back leg



Back leg the wrong way round



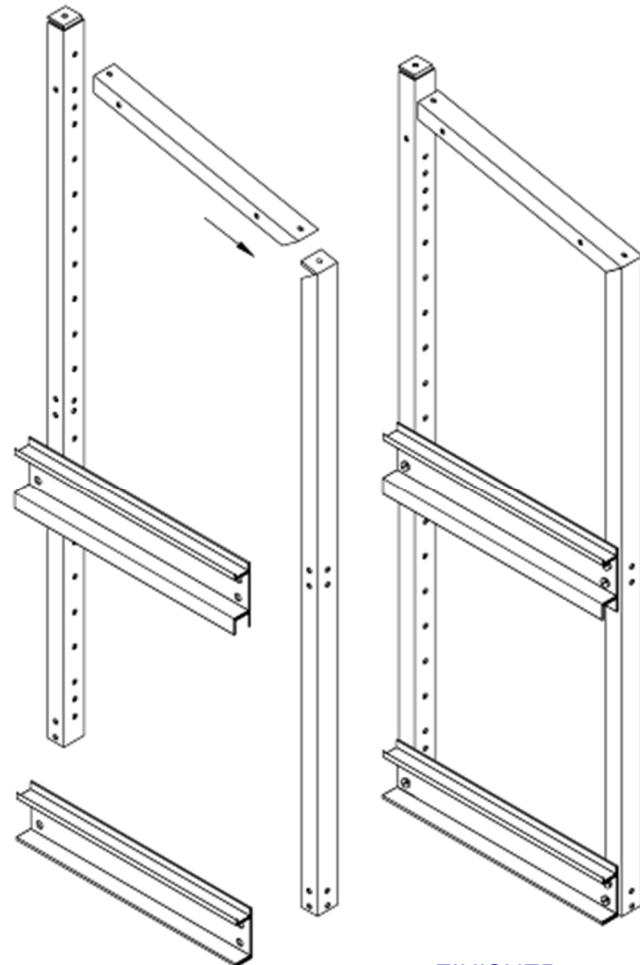
YOU ALSO NEED:

10mm BOLTS	8
METAL WASHERS	8
NUTS	8
Located in pack: SCREW-H1	

PARTS NEEDED FOR EACH END

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

DO NOT FULLY TIGHTEN BOLTS AT THIS STAGE



EXPLODED VIEW

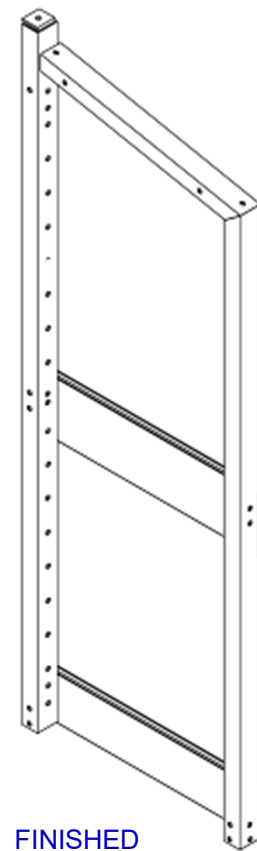
FINISHED LEFT HAND END



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



DEEPER CHANNEL AT BOTTOM



FINISHED RIGHT HAND END



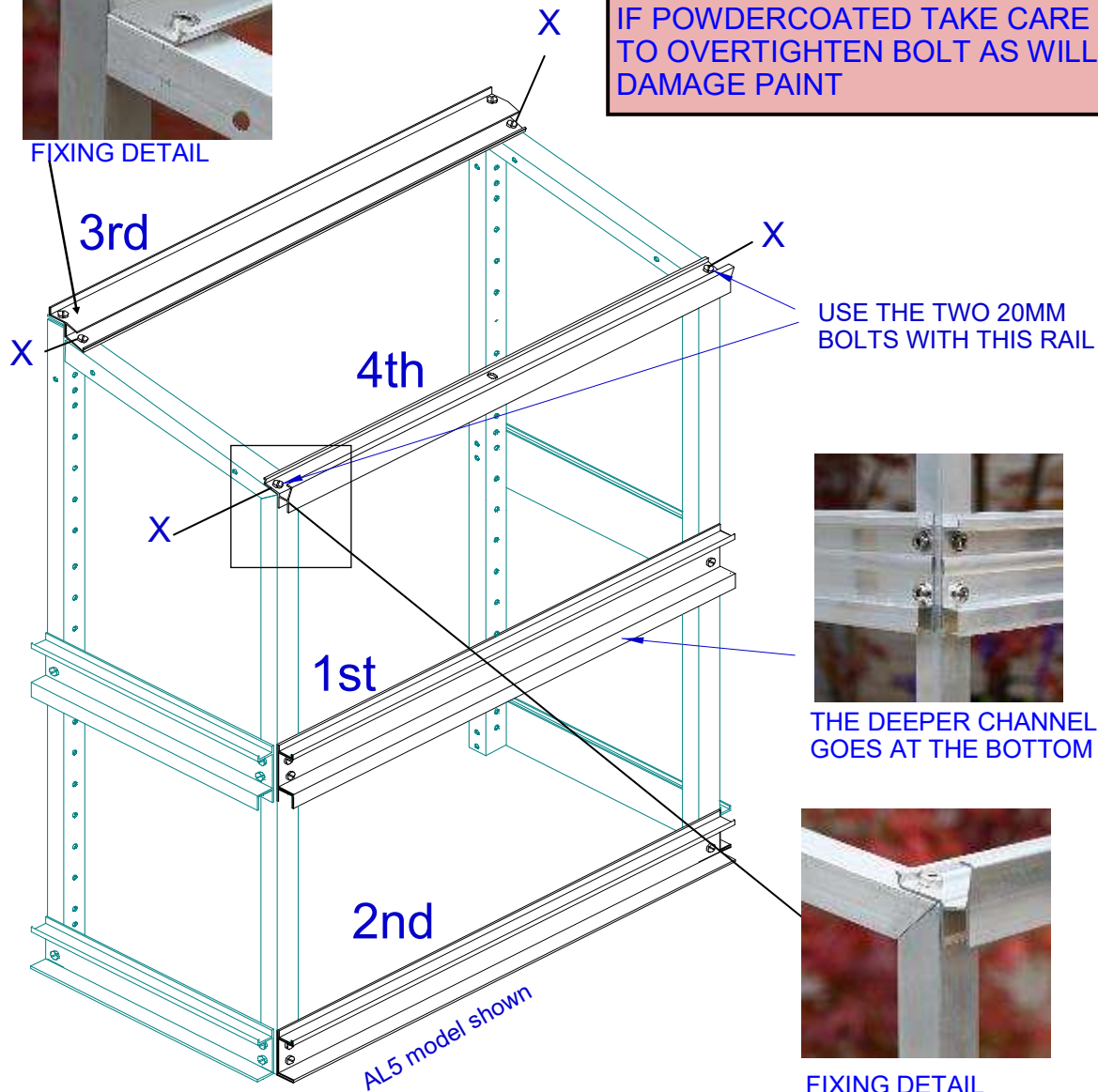
ANCHORAGE BRACKET FITTED

END SECTIONS



FIXING DETAIL

DO NOT FIT A WASHER AT THE 4 POINTS MARKED X
IF POWDERCOATED TAKE CARE NOT TO OVERTIGHTEN BOLT AS WILL DAMAGE PAINT



THE DEEPER CHANNEL GOES AT THE BOTTOM



FIXING DETAIL

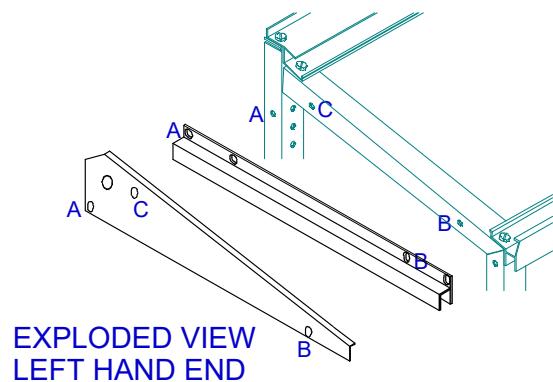
PARTS NEEDED



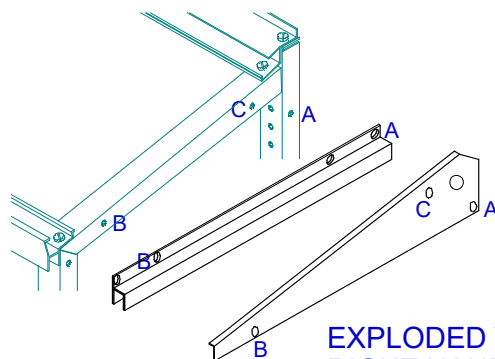
YOU ALSO NEED:	
10mm BOLTS	10
20mm BOLTS	2
METAL WASHERS	10
NUTS	14
Located in pack: SCREW-H1	

- 1 Bolt on the rails in the order shown. On rail 1 only bolt through the lower two holes. Leave the upper two holes unbolted at this stage.

DO NOT FULLY TIGHTEN BOLTS AT THIS STAGE



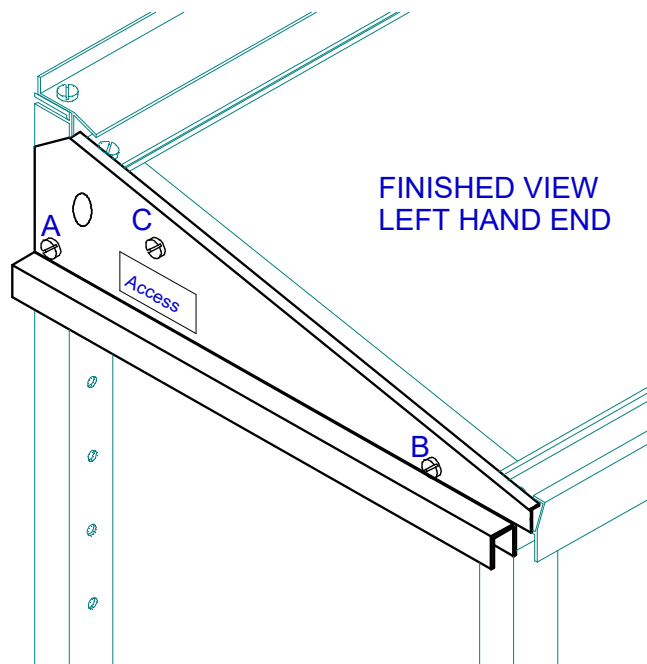
EXPLODED VIEW
LEFT HAND END



EXPLODED VIEW
RIGHT HAND END



THE END PLATE
FITS UNDER THE
RIDGE RAIL LIP

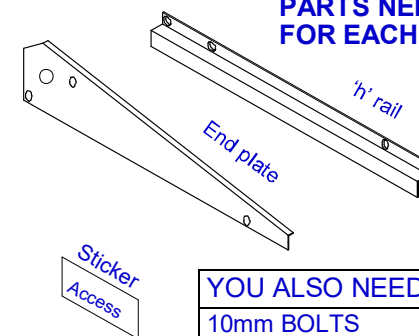


FINISHED VIEW
LEFT HAND END



THE END PLATE
FITS UNDER THE
FRONT RAIL LIP

PARTS NEEDED FOR EACH END



YOU ALSO NEED:	
10mm BOLTS	3
METAL WASHERS	3
NUTS	3
Located in pack: SCREW-H1	

1 Remove any plastic protective film from the end plates and put 'Access' sticker on.

2 Make up the LEFT hand end as shown.

3 Make up the RIGHT hand end as shown.

NB Bolt 'C' only goes through the end plate and the frame.

**DO NOT FULLY TIGHTEN
BOLTS AT THIS STAGE**

1 SQUARING THE FRAME

Use a piece of glass to square the unit as shown. Slacken the nuts if necessary to move the framework into a square position.

Once the frame is completely square tighten up all the nuts.

Remove glass once squaring is complete.

FULLY TIGHTEN ALL BOLTS

PARTS NEEDED

Front anchorage pack FR-AKG x 1

2 FIXING TO FLOOR

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

Carefully lay the frame on it's front and fit the 'L' brackets to the back legs using a nut and bolt.

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.

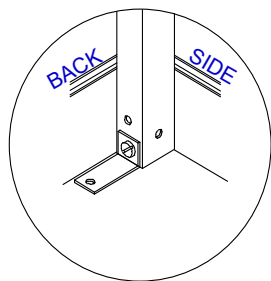
Repeat for other end.

Ensure that the front rail is not bowed before fixing, otherwise the centre staging sheets will not fit. A centre staging sheet can be used to check -see page 13.

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

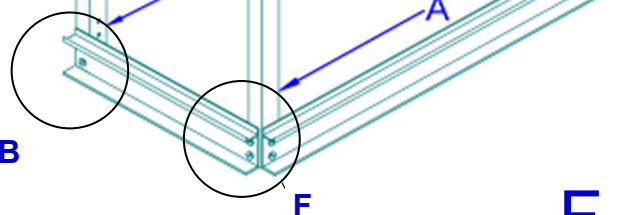
WEAR APPROPRIATE SAFETY EQUIPMENT WHEN DRILLING OR HAMMERING

B

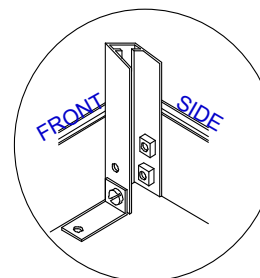


INSIDE VIEW OF BACK LEG SHOWING FIXING

B



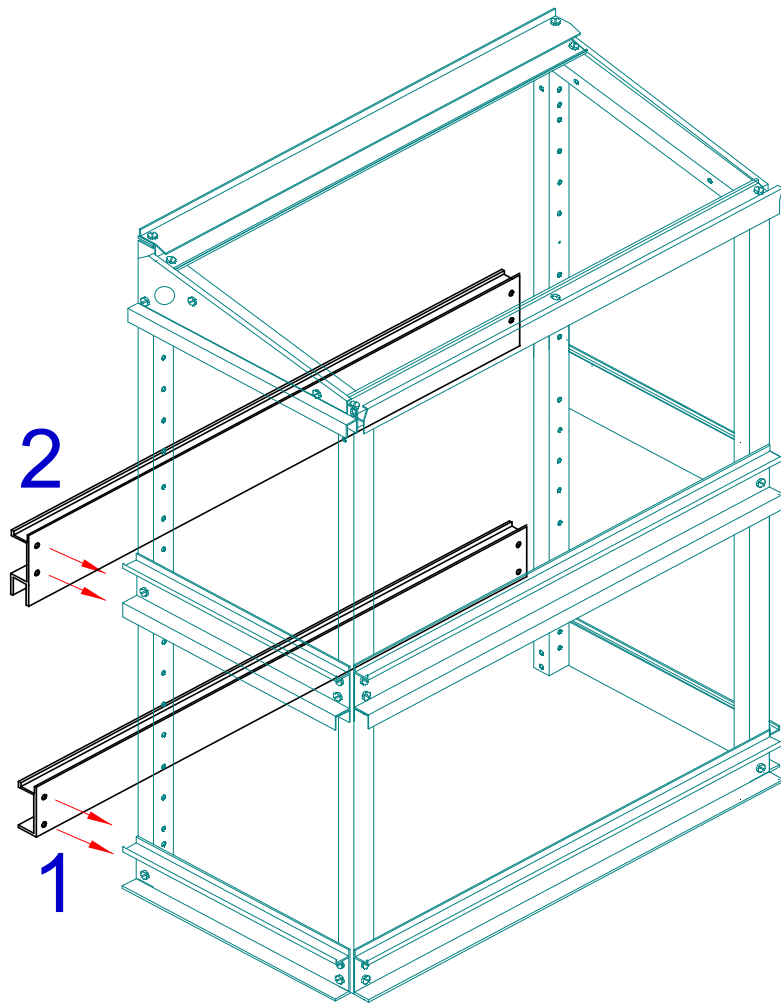
F



INSIDE VIEW OF FRONT LEG SHOWING FIXING

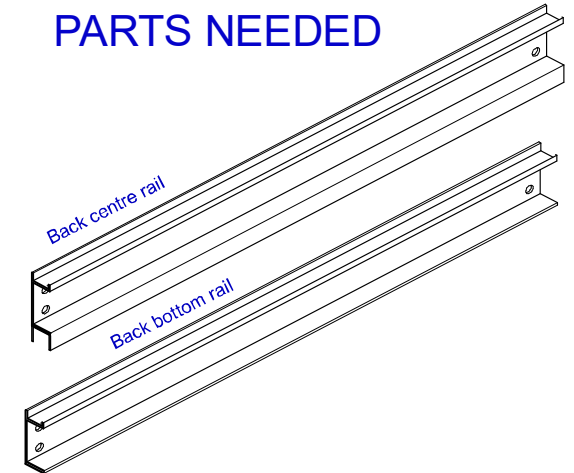


Completed front bracket



TIP: If you have purchased the wheel kit, check those instructions now

PARTS NEEDED



PARTS ALSO NEEDED

40mm BOLTS	6
METAL WASHERS	6
NUTS	6
20mm NYLON SPACERS	6
Located in pack: SCREW-H6	

1

Back bottom rail: Put a metal washer on the bolt and push the 40mm bolt through the bottom rail. Push a 20mm nylon spacer on to the bolt **BEFORE** passing the bolt through the frame and fit a nut. Repeat on other holes.

2

Back centre rail: Put a metal washer on the bolt and push the 40mm bolt through centre rail **lower** holes. Push 20mm nylon spacer on to bolt **BEFORE** passing the bolt through the back leg then fit a nut.



Nylon spacer on bolt

DO NOT FULLY TIGHTEN BOLTS AT THIS STAGE

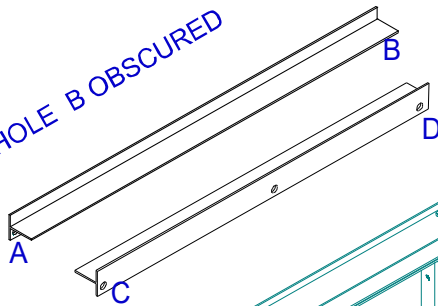
CENTRE & LOWER BACK RAILS

PARTS NEEDED

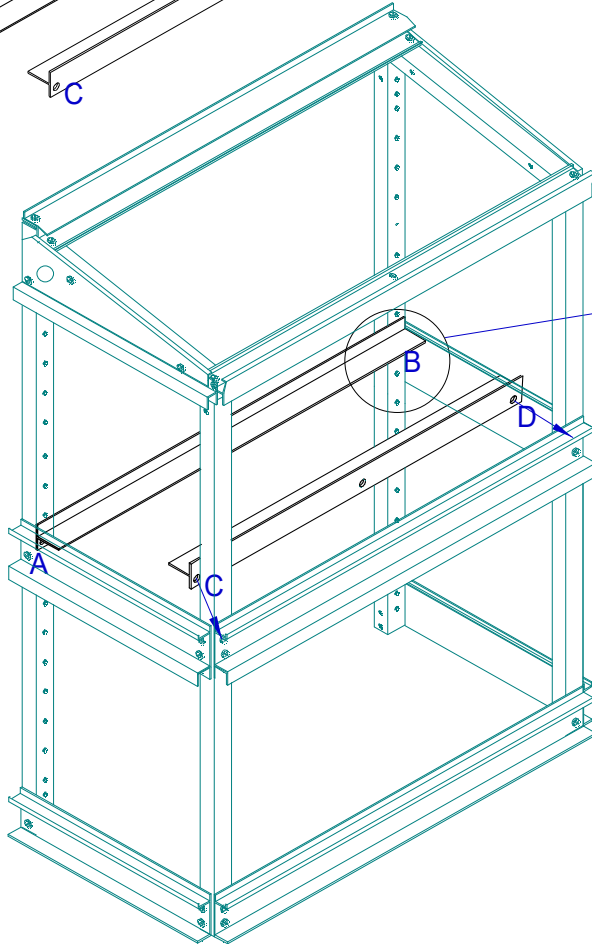
YOU ALSO NEED:

40mm BOLTS	4
METAL WASHERS	4
20mm NYLON SPACERS	4
NUTS	4
In pack: SCREW-H6	

HOLE BOBSCURED



Centre staging rails must have fixing bolt holes on the underside



1

POSITION THE RAILS INSIDE THE FRAME AS SHOWN. BOLT THROUGH HOLES SHOWN

Front rail: Put a metal washer on the bolt and push the 40mm bolt through the centre rail **upper** holes. Slide on nylon spacers, then the front staging rail before refitting the nuts.

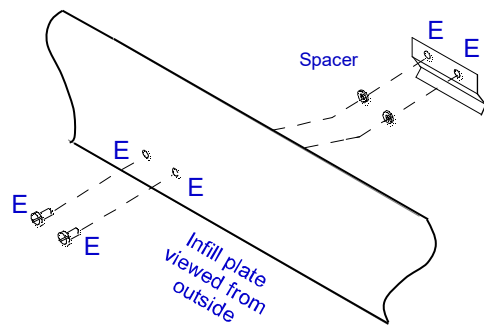
Back rail: Put a metal washer on the bolt and push the 40mm bolt through the centre rail **upper** holes. Push 20mm nylon spacer onto the bolt before passing the bolt through the back leg. Fit the support onto the bolt then fit a nut.

1

Remove the plastic protective film from the infill plate and end glass bracket.

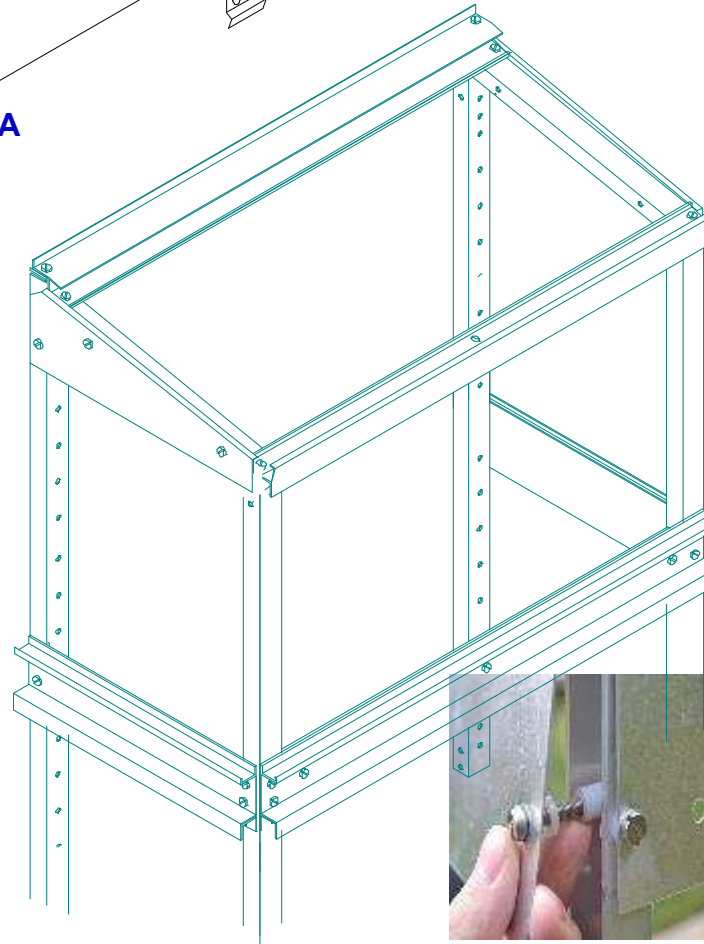
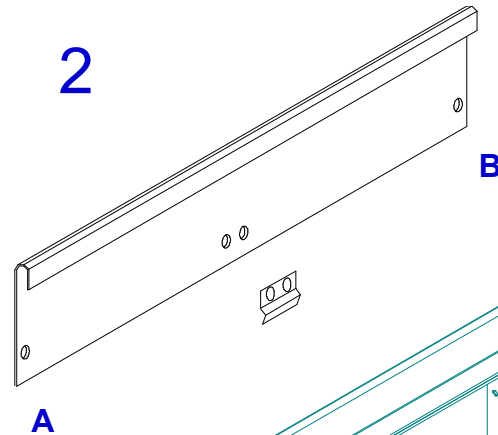
Put a metal washer on the 10mm bolt which goes through the infill plate from the outside at hole 'E'. Put a 3mm white spacer on each bolt before pushing on the glass bracket, then fit the nut. Glass bracket is INSIDE frame and will clamp onto the glass once the glass is in place.

1



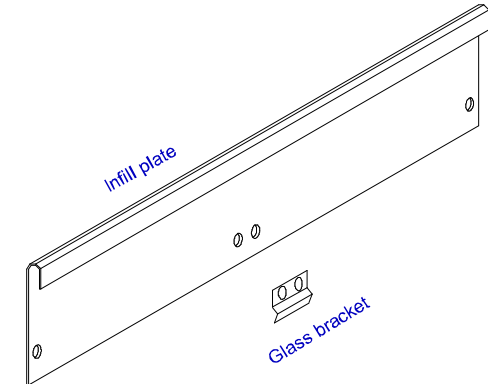
Completed bracket inside Growhouse

2



White spacers on infill plate

PARTS NEEDED



PARTS ALSO NEEDED

10mm BOLTS	2
40mm BOLTS	2
METAL WASHERS	4
NUTS	4
20mm WHITE SPACERS	2
3mm WHITE SPACERS	2
Located in pack: SCREW-H6 and H1	

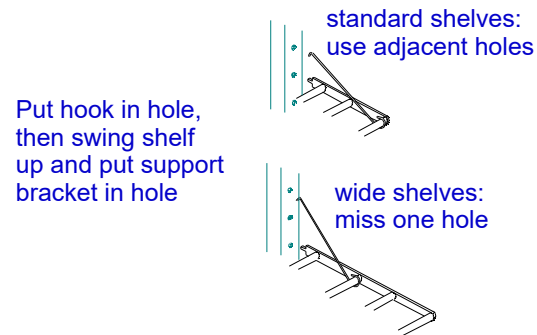
2

Place the lipped section over the upstand on the back rail. Push a long 40mm bolt and metal washer through hole A, then fit a white 3mm spacer and a 20mm nylon spacer. Push the bolt into the frame and fit a nut on the inside of the frame. Repeat for hole B at the other end.

The TG4 model has 1 standard
+ 1 wide full length shelf.

Standard shelves must be used
adjacent to the louvre vent
(optional).

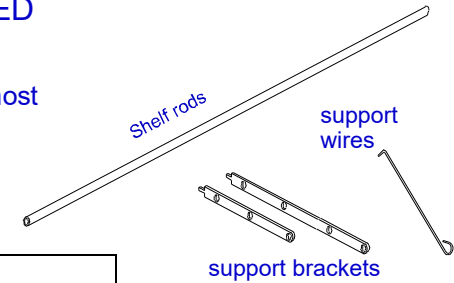
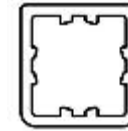
FITTING



Hook support wire into top hole, then swing shelf upward into
the hole. Make sure flat face of shelf rod is uppermost.

PARTS NEEDED

Square rod profile
Flat face is uppermost



YOU ALSO NEED PER SHELF ROD:

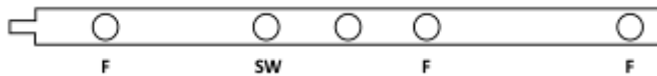
RAWLPLUGS	2
WOOD SCREW	2
Located in packs: S-NW	

YOU ALSO NEED PER COMPLETE SHELF:

NYLON SPACER	2
Located in packs: S-NW	

5-hole strap (wide)

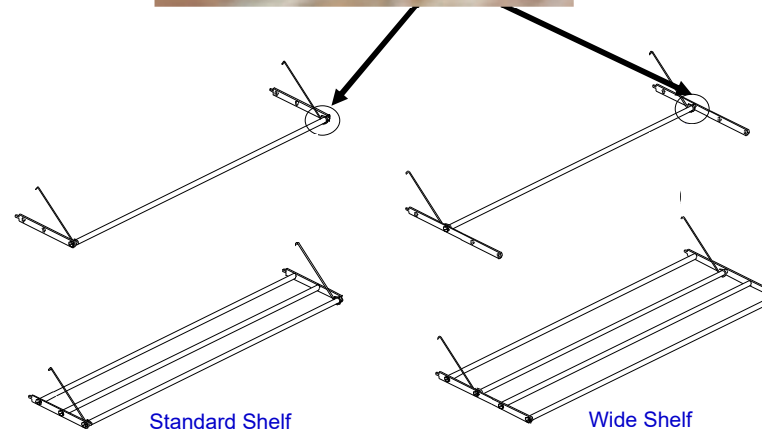
Fit the rods to the holes 'F' - the rod with support wire is
marked SW. The centre hole is unused.



The large number of holes in the back leg
allow the spacing of the shelves to be easily
altered.

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.

- 1 Lightly tap rawlplug inserts into both
ends of the tubular aluminium shelf
rods with a hammer.
- 2 Screw the support brackets on to
each end EXCEPT for the rod that
has the support wires.
- 3 For the rod with the support wires put
the spacer and the support wire onto
the screw BEFORE passing through
the bracket.



Note: A Pozidrive screwdriver will fit the screws best



Bottom shelf hung flat against the back

1

Choose which end you would like the watering inlet.



Fit the washer onto the thread of the adaptor, and then fit the nipple



Push the assembly through the hole from the inside from the inside



Screw the brass elbow onto the protruding thread from the outside



Fit the black grommet (from pack SCREW-H1) into the unused irrigation hole at the opposite end of the unit

Right hand watering entry:

The double tee is configured for fitting to the left hand end. To change to r/h entry, twist the tee through 180 degrees.



Twist here for r/h end fitting

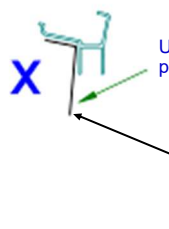
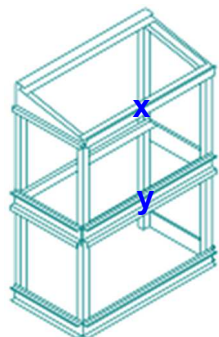
Finished tee for r/h end fitting

2

'L' brackets need to be fitted inside the frame.

x - Use a nut and bolt to fix to the hole

y - Use the bolt hole on the centre staging rail



Use black strap through hole to fix pipework to bracket

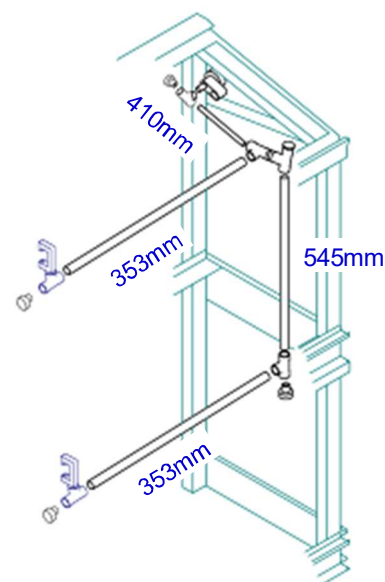


Bend bracket down

3

Fit the irrigation system as shown. The pipes push into the black fittings.

TIP: Dip the end of the pipe in water. For a better fit, twist the pipes as they are inserted.



4

Use the black straps to secure the watering system to the 'L' shaped brackets and then strap the pipes to the end of the frame using the hole in the leg.



End strap



Inlet and link pipe



Double tee

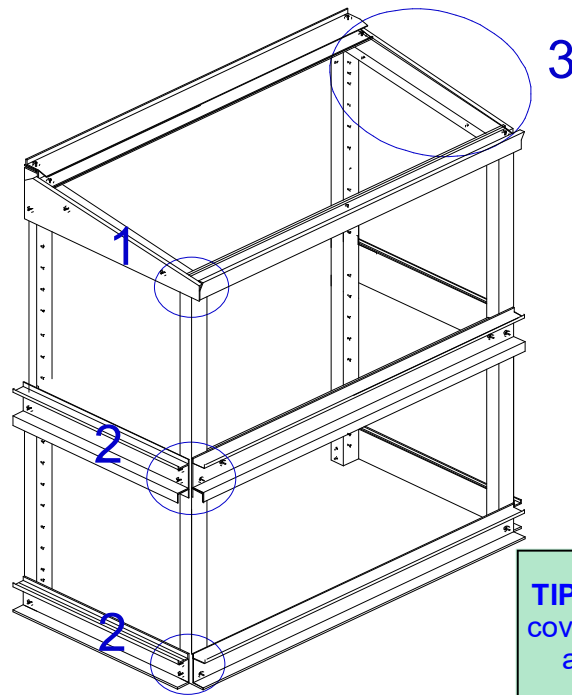


Nozzle strapped to 'L' bracket—position x

PARTS NEEDED:

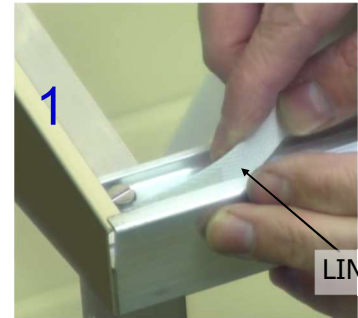
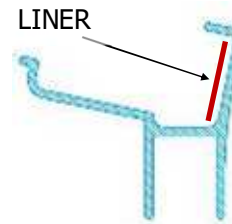
NOZZLE ASSEMBLY	2
SINGLE TEE	2
BLANKING PLUG	4
DOUBLE TEE	1
'L' BRACKET	2
ENTRY FITTING: Nipple, adaptor, washer and brass elbow	1
10MM BOLTS & NUTS	2
BLACK STRAPS (short)	6
Located in pack: I-SP-2	
6mm PIPES	4

FITTING THE CHANNEL LINER



1

The white 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.

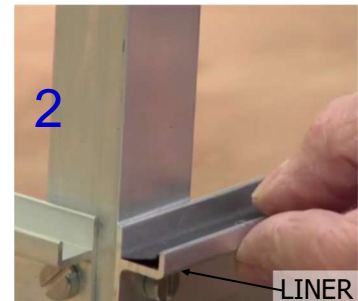


Before sticking the tape, clean the aluminium of any oil traces to promote adhesion.

2

The black plastic liner (W65-5M) goes in the FRONT bottom and centre rails 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.

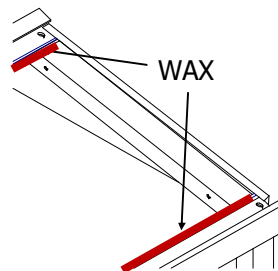
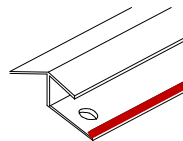
THE DOORS WILL NOT SLIDE PROPERLY IF THE LINER IS NOT FLAT



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

3

To make the top glass slide more easily, rub candle wax onto the glass bearers. Also wax the black and white 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

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

WARNING

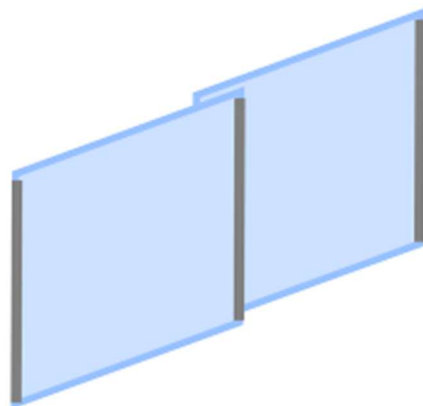
If broken, toughened glass will fragment safely.
If the edges are knocked or chipped the glass will spontaneously fragment. This is a natural occurrence due to the toughening process. Care should be taken when moving or cleaning, not to damage the edge of the glass.
When placing the glass in the frame, ensure that the glass is securely placed in the runners before letting go of the glass.

When fitting the handles, place the glass on a table or timber battens.

NEVER PLACE THE GLASS DIRECTLY ON CONCRETE OR SLABS

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.



HANDLES

The right hand glass sheets always have 1 handle.

The left hand glass sheets always have 2 handles.

When fitting place the right hand glass sheet in the channel first, then place the left hand sheet in front, overlapping the first sheet.

	'C' sheet	'D' sheet	'E' sheet
Sheets requiring one handle	1	1	1
Sheets requiring two handles	1	1	1

SEE PAGE 14 FOR WHICH GLASS SHEETS NEED HANDLES



Handle fitted with 15mm gap



Sheet with 2 handles



Sheet with 1 handle

Why do we only have one glass channel?

We use a single channel for two sheets of glass as outside in the garden, one wide channel is much easier to keep clean than two narrow channels.

Gripping the glass to slide

It is important to always slide the glass from the centre of the handle, if you try and slide the lower channels by gripping the top of the handle, you may inadvertently lift the panel out of the channel.

Corner angles and sliding the front glass

When closed, both panels will tuck behind the corner trims to keep them secure. Before sliding the right hand panel open, slide the left hand panel open by approx. 1" to release it from behind the corner trim.



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.



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.
Short handles have 2 pads (top and bottom). Long handles have 3 pads (plus centre).



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.
You can carefully wet each side of the glass to make this easier.



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.

CENTRE STAGING (F)

If you wish to fit the centre staging glass (453mm x 353mm) sheets place these on the middle staging rails before glazing the frame. There is approx. 1" (2cm) gap between the sheet to allow air circulation. Centre staging is rated to 25kg per sheet.

FITTING THE END GLASS

To fit the glass push the sheet into the deeper top channel, then lower into the bottom channel. Make sure the glass is properly in the top and bottom channel before letting go. If you wish, you can fit the corner angles and black wedges at this point (see next page).

FITTING THE FRONT GLASS

To fit the glass push the sheet into the deeper top channel, then lower into the bottom channel (A). Make sure the glass is properly in both channels before letting go. Put the first sheet in at the right hand end. The second sheet will fit in front of the first sheet and overlap the first panel by approx. 1" (2cm).

FITTING THE ROOF GLASS

To fit the glass push the sheet into the channel of the ridge rail, then lower into the front top rail channel. Put the first sheet in at the right hand end and then push it under the lip of the end plate. The second sheet will fit on top of the first sheet and overlap the first panel by approx. 1" (2cm).

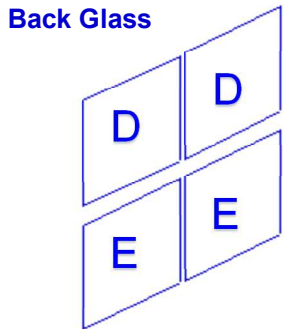
TOP BACK GLASS

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 until the plate just starts to deform. Fit a ring wedge (F) into the bottom glass channel - 1 per sheet.

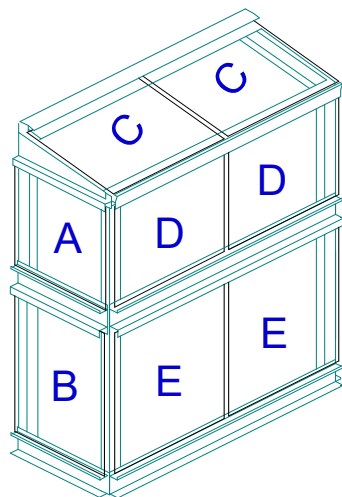
BOTTOM BACK GLASS

Fit the glass using the same method as the front glass. In the centre of each pane, push a black thimble shaped wedge into the top glass channel to prevent the glass rattling (D). Fit a ring wedge (F) into the bottom glass channel - 1 per sheet.

Back Glass



B. Glass bracket



FRONT & SIDE GLASS

A	500mm x 500mm	Qty: 2	Pack: GT-5-5-2
B	750mm x 500mm	Qty: 2	Pack: GT-7-5-2
C	500mm x 400mm	Qty: 2	Pack: GT-5-4-6
D	500mm x 400mm	Qty: 2	Pack: GT-5-4-6
E	750mm x 400mm	Qty: 2	Pack: GT-7-4-4
F	453mm x 353mm	Qty: 2	Pack: GT-TG2
End glass (A & B) have no handles			

BACK GLASS

D	500mm x 400mm	Qty: 2	Pack: GT-5-4-6
E	750mm x 400mm	Qty: 2	Pack: GT-7-4-4
Rear glass (D & E) have no handles			



D. Thimble wedge



F. Ring wedge



F. Centre staging fitted



A. Fitting the glass



Glass in channel with two sheets overlapping



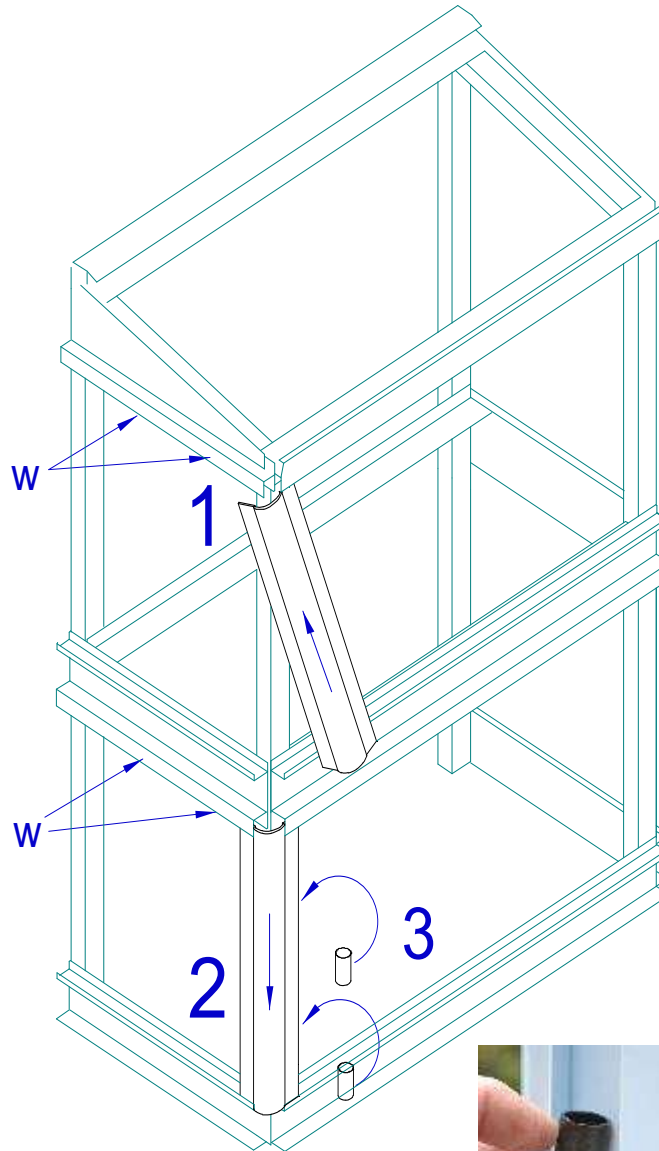
Roof glass overlapping

BLACK 'WEDGES'

The small black thimble wedges (w) are designed to be pushed into the top channels of the end glass to stop the glass moving. Use two wedges per sheet of glass.



Located in: ALL SCREW PACKS



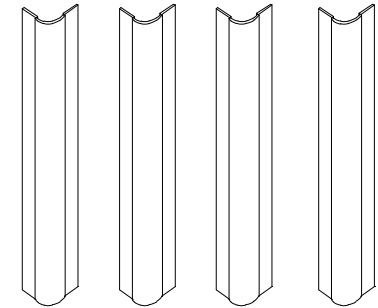
Corner trim in place

**NB—NO CORNER ANGLES
REQUIRED FOR BACK OF FRAME**



Fitting the hollow
tube

Aluminium corner trims



You also need: 2 bags
marked as TRIM-4 x 2

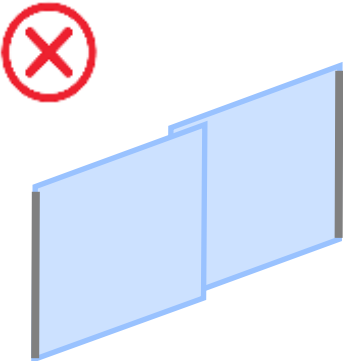


PARTS NEEDED

- 1 Take one of the corner trims and push it up into the top channel and the 'h' section.
- 2 Swing the corner trim in so that it is vertical and drop it into the channel below. At this point the trim will be loose.
- 3 Slide the front glass door out of the way. Take one of the hollow tubes contained in the pack marked 'TRIM'. From the front of the frame, push the tube between the framework and the corner trim. Slide the tube downwards as far as it will go.

Insert a second hollow tube and repeat the action, but this time push the tube up as far as it will go.

These tubes keep the corner trim firmly in place, and act as a stop for the sliding doors.
- 4 Repeat for the other 3 corners.

CORNER TRIMS WILL NOT FIT	The most common cause of this problem is the end glass protruding over the front leg. This is normally caused because the frame work is not square against the wall. See page 7.
GLASS STICKS TOGETHER	This is normally due to the handles not being put on the right side of the glass. See image 1 below and page 12 for details of where the handles should be fitted to the glass. If the glass has stuck together, push the two sheets to the back of the channel, then slowly pull the front sheet of glass forward from one end. This will release the suction between the sheets.
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. Check that dimension A = B - see page 7.
LOUVRE VENT DOES NOT FULLY CLOSE ON COLD DAYS	Loosen the two screws which hold the automatic opener to the vent. Push the opener up as far as it will go. Retighten the 2 screws. If the unit still does not fully close, lubricate the opener mechanism and all the pivot points with WD-40.
GLASS FALLS OUT OF THE LOWER LEVEL	Ensure that the centre rail has the deeper channel at the bottom - see image 3 below.
GLASS FALLS OUT OF THE UPPER LEVEL	Make sure there is no gap on the mitre joint and that the front rail fits properly - see image 4 below.
WATERING INLET LEAKS	Try tightening the inlet fitting as it needs to be tight to seal.
    IMAGE 1 IMAGE 2 IMAGE 3 DEEPER channel at bottom IMAGE 4 No gap in mitre and front top rail fitted properly	

PERIODIC MAINTENANCE

Every Spring take the glass out of the greenhouse and wash glass and framework with warm soapy water.

Lubricate the automatic louvre vent bi-monthly and remove if subject to very heavy frosts.

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 four 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. Access shading will help keep temperatures down, and stop birds etc getting inside. The Access Automatic Vent will look after ventilation - automatically!

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.

CENTRE STAGING To accommodate tall plants slide one sheet over another or lift out completely.

WATERING SYSTEM The system accepts standard quick connectors. Turn the tap on slowly until the mist fills the greenhouse; too much pressure will throw water on to the back wall. Leave on for 5 minutes, or ½ minute for damping down.

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 and irrigation pipe. The glass will merely overlap more - don't try to cut toughened glass!