

ASSEMBLY INSTRUCTIONS

Half Westminster

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Please keep all packaging
until installation is complete



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:

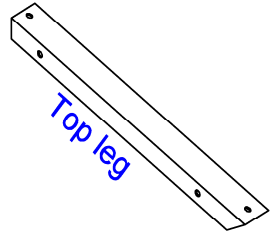
instructionfeedback@garden-products.co.uk

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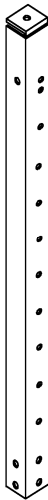
Tel: 01788 822301
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www.garden-products.co.uk

Assembly instructions for model: Half Westminster AN2 (1.00m/3'4") BN2(1.51m/5'0")

Date: Oct 24 Rev: 10 File: N2



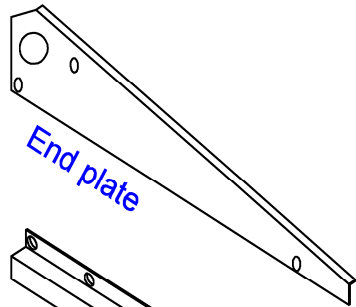
Top leg



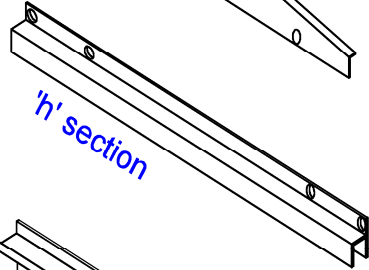
Back Leg



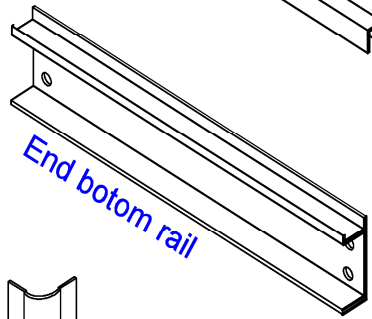
Front Leg



End plate



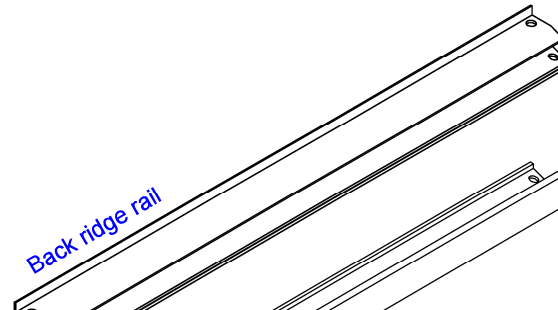
'h' section



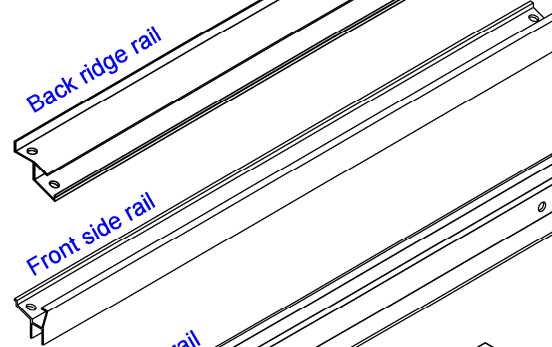
End bottom rail



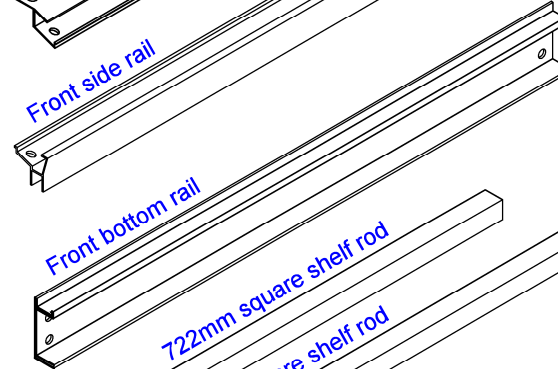
Corner angle



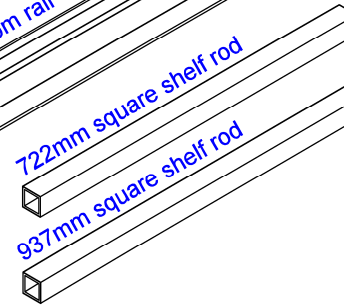
Back ridge rail



Front side rail



Front bottom rail



722mm square shelf rod

937mm square shelf rod



FIT THE WASHER UNDER THE HEAD OF ALL HEX HEAD BOLTS UNLESS OTHERWISE INSTRUCTED.

Leg parts	AN2	BN2
Back leg	2	3
Front leg	2	3
Top leg	2	3

End parts	AN2	BN2
End plate	2	2
'h' section	2	2
Bottom rail	2	2
Corner Angle	2	2

Front parts	AN2	BN2
Ridge rail	1	1
Top rail	1	1
Bottom rail	1	1
722mm shelf rod	0	12
937mm shelf rod	6	0

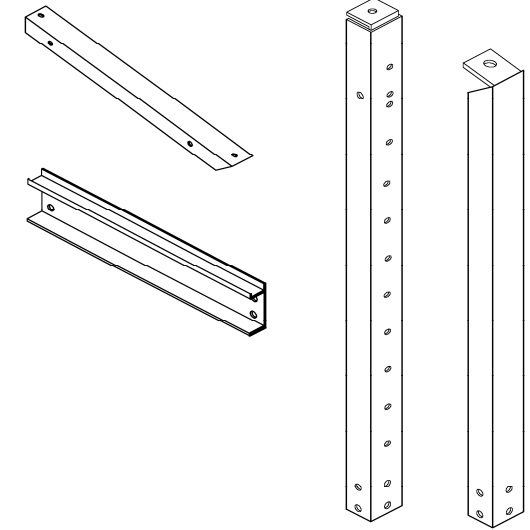
Additional Items		AN2	BN2
Handle 260mm		3	3
Handle 725mm		3	3
Screw pack	SCREW-H4	1	1
Wall fixing pack	FR-WF6	1	1
Front anchorage pack	FR-AK	1	1
Standard shelf pack	S-N2	1	2
Trim pack	TRIM-4	1	1
Black channel liner	W65-5M	1	1
White channel liner	W66-2M	1	1
Allen Key	SCREW-H4	1	1



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



Back leg the wrong way round



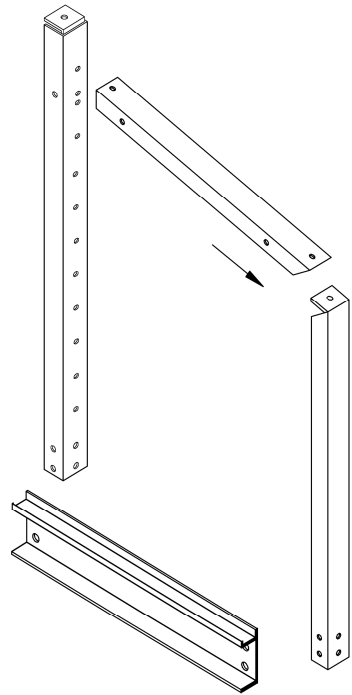
YOU ALSO NEED:

10mm BOLTS	4
METAL WASHERS	4
NUTS	4
Located in pack: SCREW-H4	

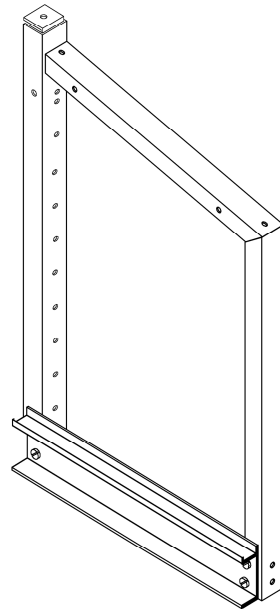
PARTS NEEDED FOR EACH END

- 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



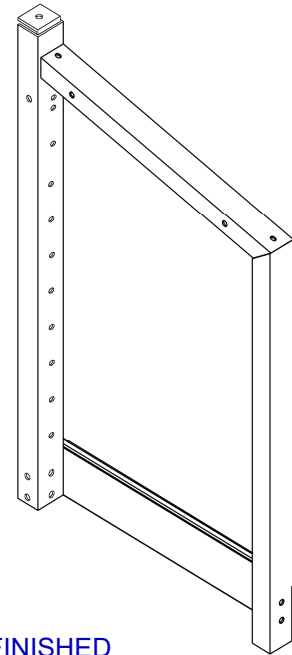
EXPLODED VIEW



FINISHED LEFT HAND END



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



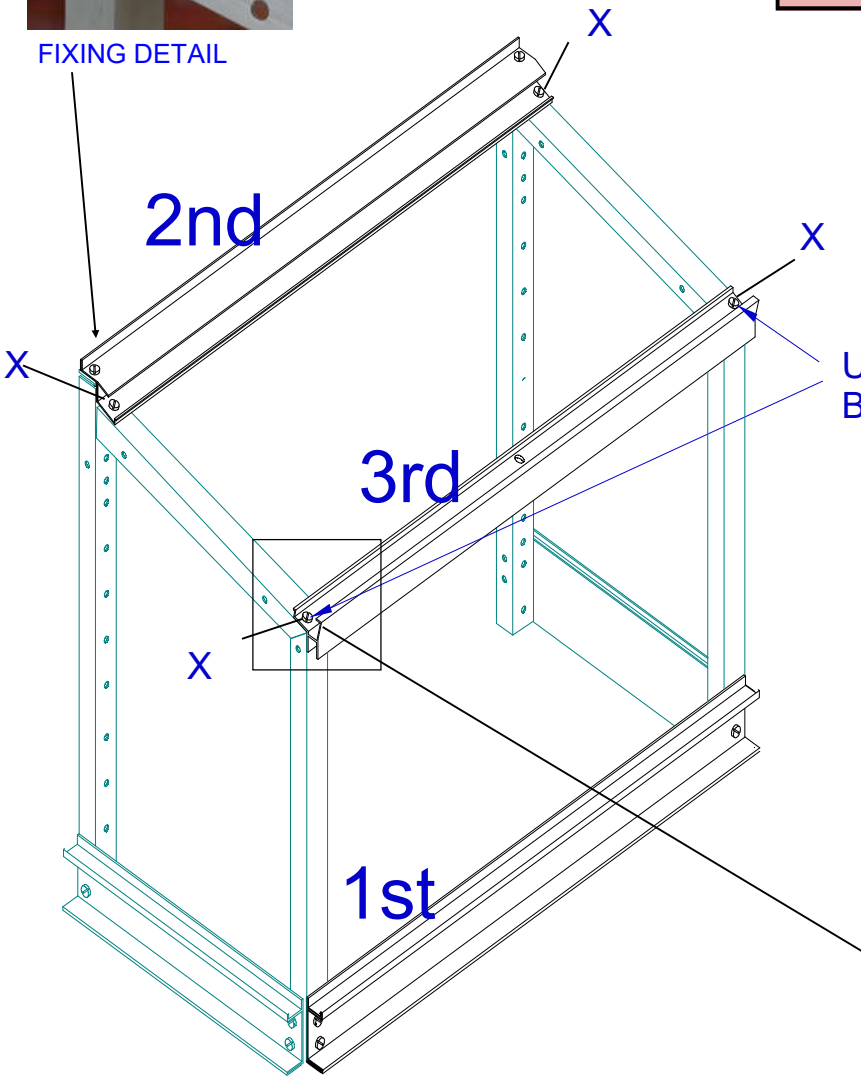
FINISHED RIGHT HAND END

END SECTIONS



FIXING DETAIL

DO NOT FIT A WASHER AT POINTS MARKED X
ON POWDERCOATED UNITS TAKE CARE NOT TO OVERTIGHTEN THESE BOLTS OTHERWISE THE COATING WILL BE DAMAGED

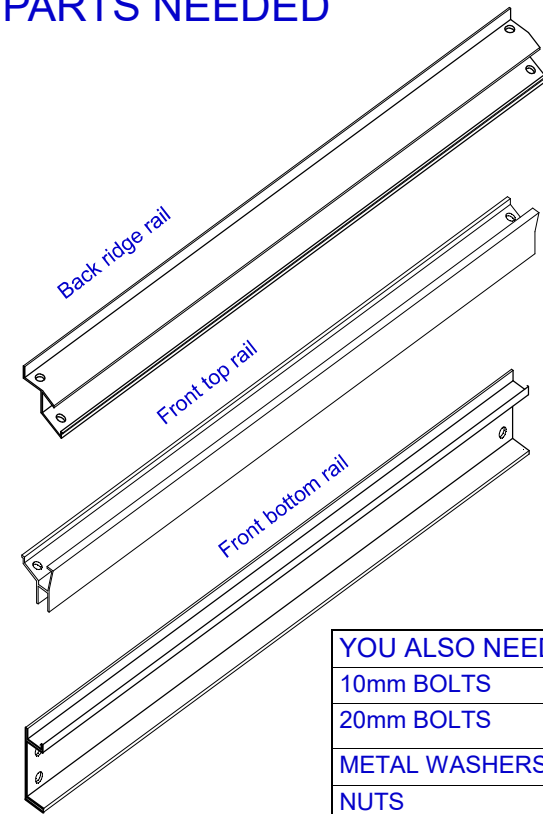


USE THE TWO 20MM BOLTS WITH THIS RAIL



FIXING DETAIL

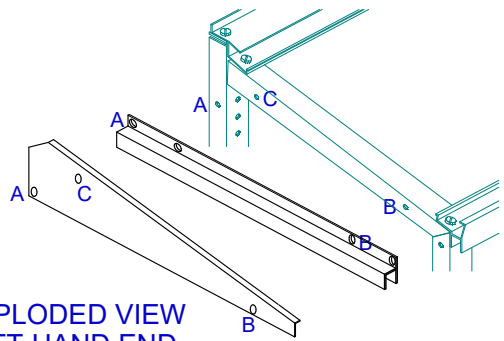
PARTS NEEDED



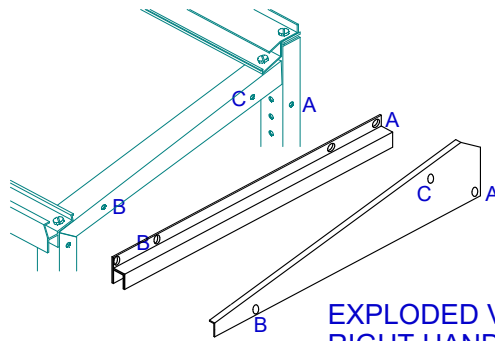
YOU ALSO NEED:	
10mm BOLTS	8
20mm BOLTS	2
METAL WASHERS	6
NUTS	10
Located in pack: SCREW-H4	

1 Bolt on the rails in the order shown.

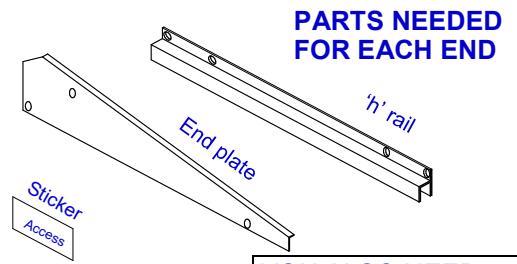
DO NOT FULLY TIGHTEN BOLTS AT THIS STAGE



EXPLODED VIEW
LEFT HAND END



EXPLODED VIEW
RIGHT HAND END



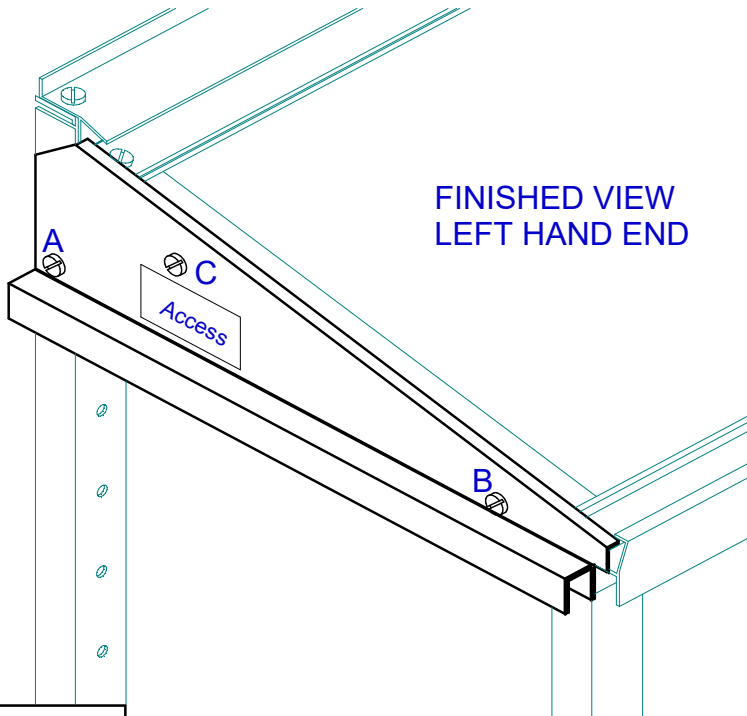
**PARTS NEEDED
FOR EACH END**

YOU ALSO NEED:

10mm BOLTS	3
METAL WASHERS	3
NUTS	3
Located in pack: SCREW-H4	



THE END PLATE
FITS UNDER THE
RIDGE RAIL LIP



FINISHED VIEW
LEFT HAND END



THE END PLATE
FITS UNDER THE
FRONT RAIL LIP

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.

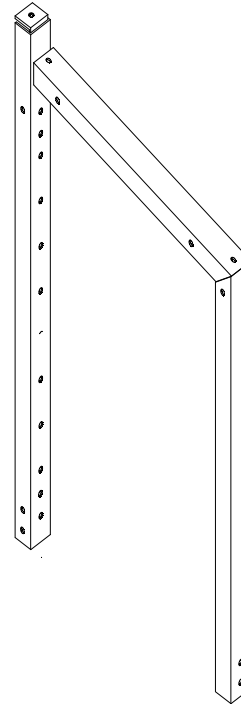
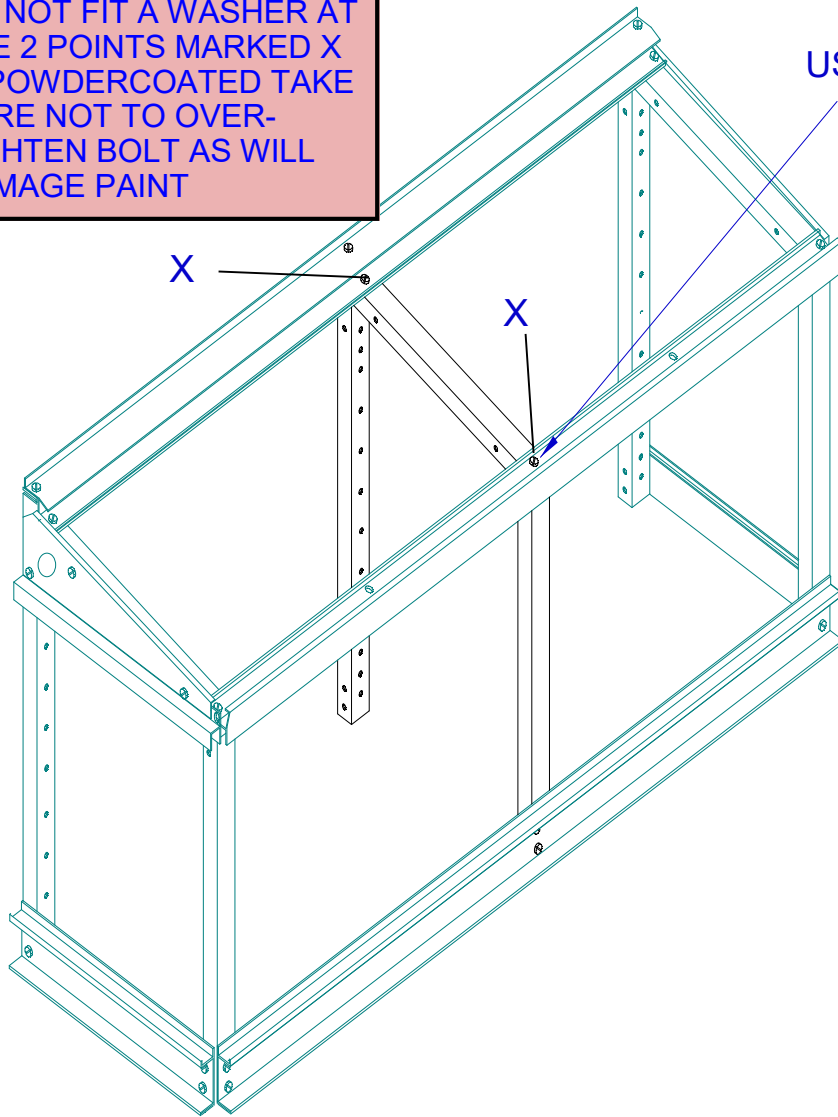
NB Bolt 'C' only goes through the end plate and the frame.

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

**IF YOU HAVE AN
AN2 MODEL
GO TO PAGE 6**

DO NOT FIT A WASHER AT THE 2 POINTS MARKED X IF POWDERCOATED TAKE CARE NOT TO OVERTIGHTEN BOLT AS WILL DAMAGE PAINT

USE 20mm BOLT

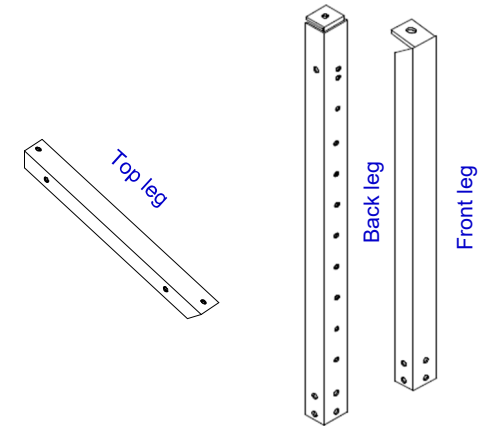


CENTRE LEGS
PRIOR TO FITTING

1

Fit legs as shown into the frame.

PARTS NEEDED



YOU ALSO NEED:

10mm BOLTS	4
20mm BOLTS	1
METAL WASHERS	3
NUTS	5
Located in pack: SCREW-H4	

DO NOT FULLY TIGHTEN
BOLTS AT THIS STAGE

1

SQUARING THE FRAME

Use a set square (or the A5 frame squaring card provided) to square the unit up in the 3 places shown.

IT IS ESSENTIAL TO GET THE FRAME SQUARE. DO NOT ALIGN TO THE WALL AS IT MAY NOT BE SQUARE .

Ensure distance 'A' is equal to distance 'B' otherwise the shelves will not fit. (It may help to assemble one shelf and fit into place.)

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

FIXING TO WALL

Two hammer fix screws are used in each 'back leg' (pack FR-WF6).

2

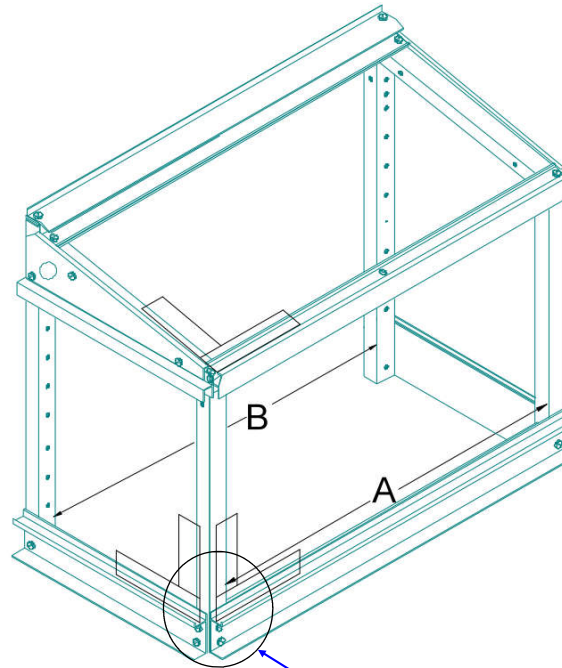
Counting from the floor the screws go in the holes marked 'F'.

Holes 2 & 13

Using a 6mm masonry bit drill, mark the drill at a depth of 65mm. With the unit against the wall, drill through the holes (F) until the mark reaches the hole in the 'back leg'. Push the COMPLETE screw and rawlplug through the hole in the back leg and into the wall.

Lightly hammer or screw in with a 'phillips head' screwdriver.

FULLY TIGHTEN ALL BOLTS



PARTS NEEDED

Front anchorage pack FR-AK
Wall fixing pack FR-WF6

3

FRONT FIXING TO FLOOR

Once the unit has been fitted to the wall the front anchorage kit (pack FR-AK) can be fitted.

Fit the 'L' bracket to the front leg using a nut and bolt.

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

Repeat for other end.

On BN2 models fit an 'L' bracket to the centre leg.

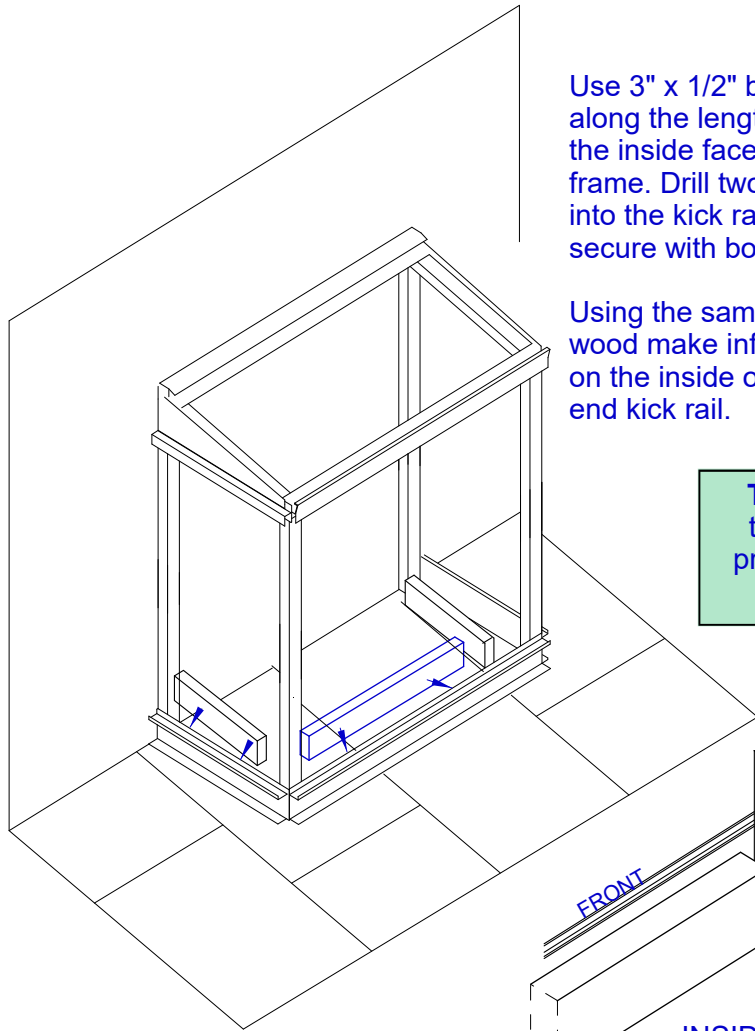
WEAR APPROPRIATE SAFETY EQUIPMENT WHEN DRILLING OR HAMMERING

TIP: If your drill is touching the framework, just mark the holes, then remove the frame to allow the holes to be drilled.



INSIDE VIEW OF FRONT LEG SHOWING FRONT FIXING

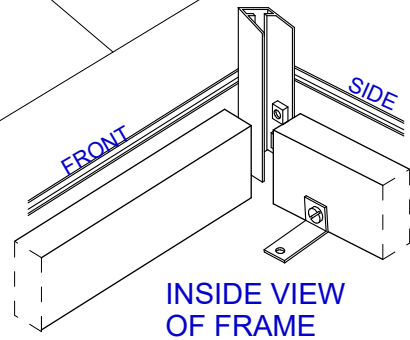
FLOOR FALLING AWAY



Use 3" x 1/2" batton along the length of the inside face of the frame. Drill two holes into the kick rail to secure with bolts or screws.

Using the same size wood make infill pieces on the inside of each end kick rail.

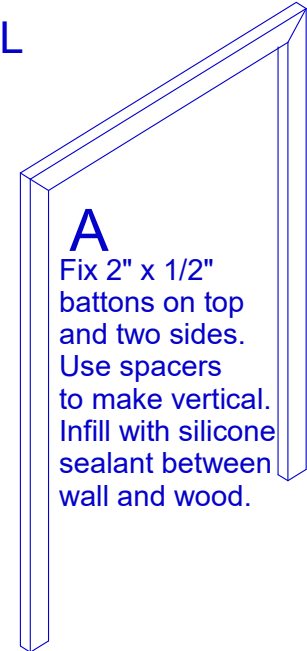
TIP: Always treat timber with wood preservative before fixing in place



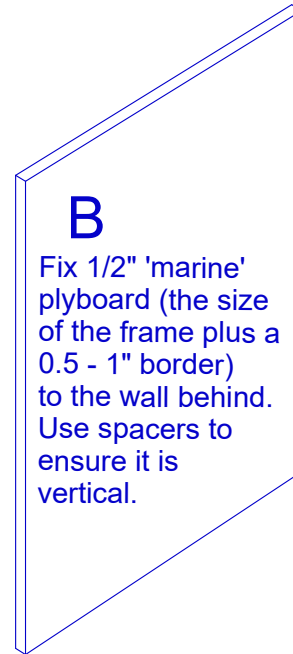
ROUGH OR SLOPING WALL

To solve problems with walls choose option A or B below.

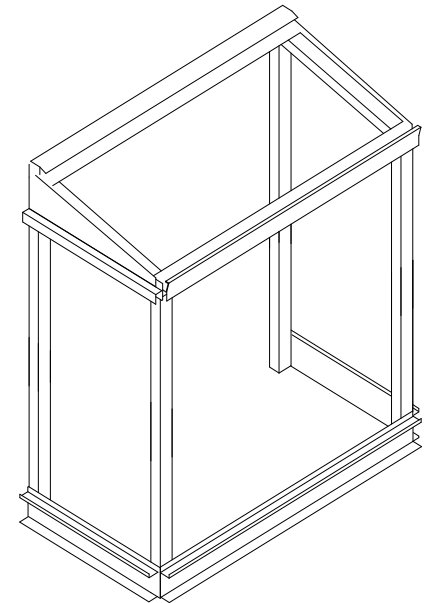
Fit the frame to the woodwork using 1.25" wood screws. (not supplied)
Seal around the inside of the frame with silicone sealant when finished.



A
Fix 2" x 1/2" battens on top and two sides. Use spacers to make vertical. Infill with silicone sealant between wall and wood.



B
Fix 1/2" 'marine' plyboard (the size of the frame plus a 0.5 - 1" border) to the wall behind. Use spacers to ensure it is vertical.

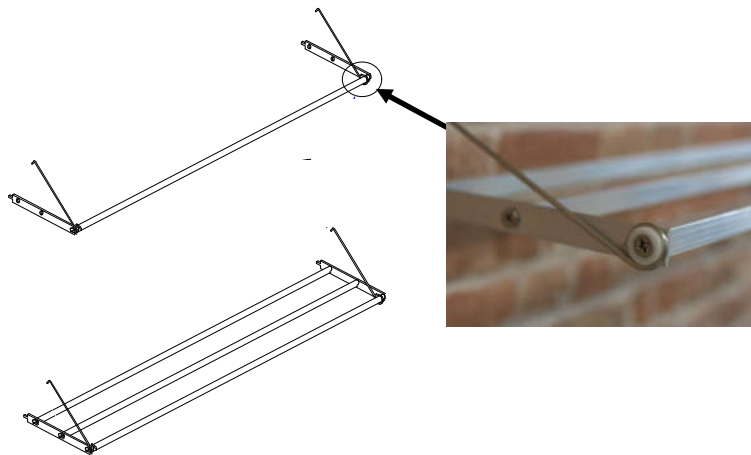


Screw or bolt 'L' shaped brackets to the wood and then to the floor

The AN2 model has 2 standard full length shelves.

The BN2 model has 4 standard half length shelves

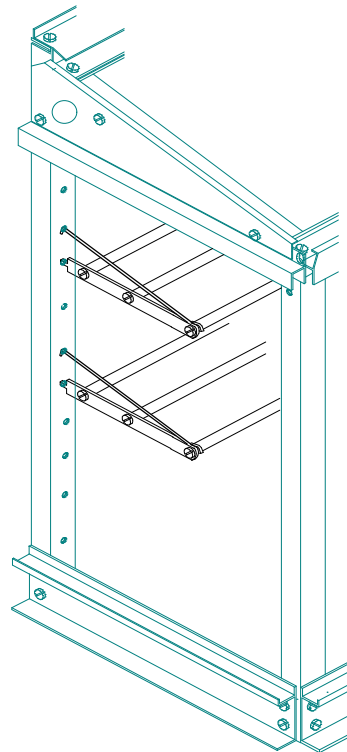
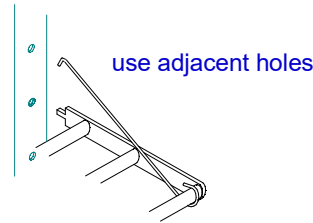
- 1 Lightly tap rawlplug inserts into both ends of the tubular aluminium shelf rods with a hammer.
- 2 Screw the support brackets on to each end EXCEPT for the rod that has the support wires.
- 3 For the rod with the support wires put the spacer and the support wire onto the screw BEFORE passing through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



FITTING

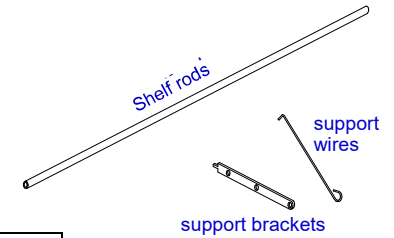
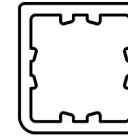


Hook support wire into top hole, then swing shelf upward into the hole. Make sure flat face of shelf rod is uppermost.



PARTS NEEDED

Square rod profile
Flat face is uppermost



YOU ALSO NEED
PER SHELF ROD:

RAWLPLUG	2
WOOD SCREW	2
Located in packs: S-N2	

YOU ALSO NEED
PER COMPLETE SHELF:

NYLON SPACER	2
Located in packs: S-N2	

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.

HALF LENGTH SHELF FITTING



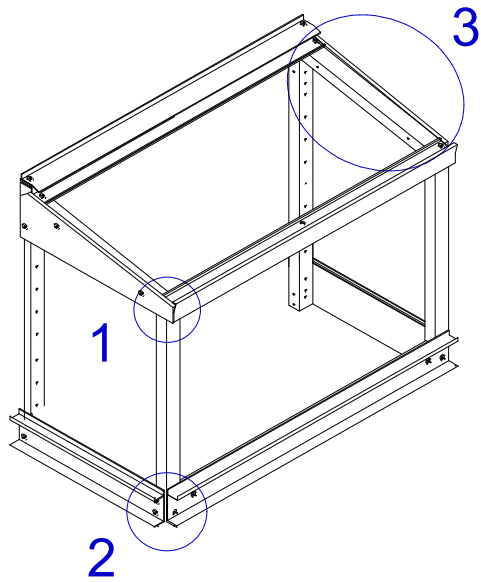
Support wires can share same hole as support bracket



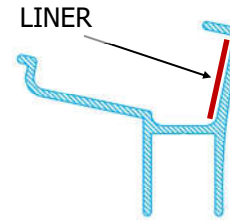
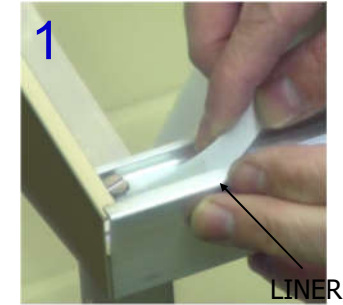
Bottom shelf hung flat against the back

Note: A Pozidrive screwdriver will fit the screws best

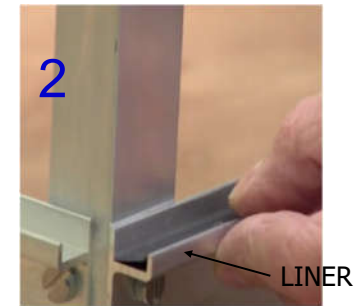
FITTING THE CHANNEL LINER



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.

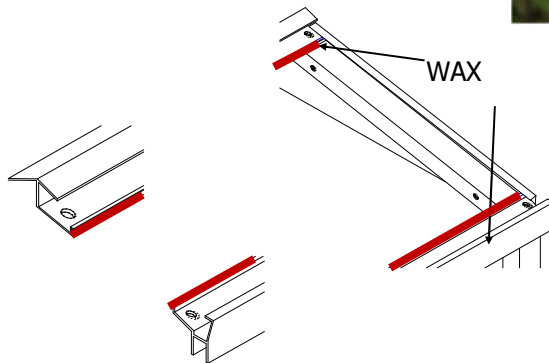


2 The black plastic liner (W65-5M) goes in the FRONT bottom rail only. Using the strips of double sided tape press liner down so that it **LIES FLAT** at the bottom of the channel - trim with a knife if necessary.



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 and white liners.



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

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

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

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

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

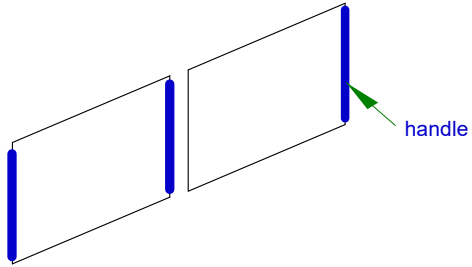
WARNING

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.

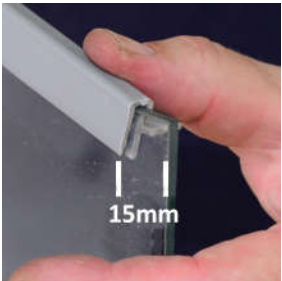
When placing the glass in the frame, ensure that the glass is securely placed in the runners before letting go of the glass.

SEE PAGE 12 FOR WHICH GLASS SHEETS NEED HANDLES	'B' sheet	'C' sheet
Sheets requiring one handle	1	1
Sheets requiring two handles	1	1

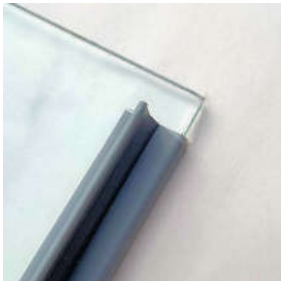


HANDLES

The right hand glass sheets always have 1 handle.
The left hand glass sheets always have 2 handles.



Work on handle from side edge



Handle fitted with 15mm gap



Sheet with 2 handles



Sheet with 1 handle



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

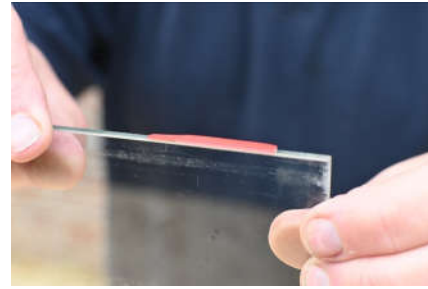
Replace the cloth in the plastic bag to prevent evaporation.



5

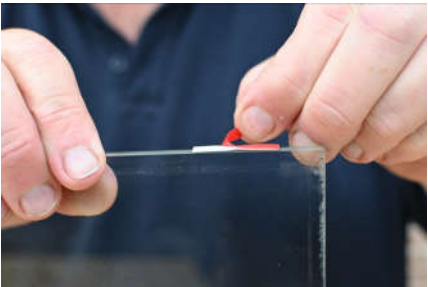
Peel the pad off the backing.

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.



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. Right hand panels always have a single handle on the right hand side of the sheet. Left hand panels have two handles, one on each side.

FITTING THE 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 firmly in the bottom channel before letting go. When putting the sheets in the frame, 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).

SLIDING THE FRONT GLASS

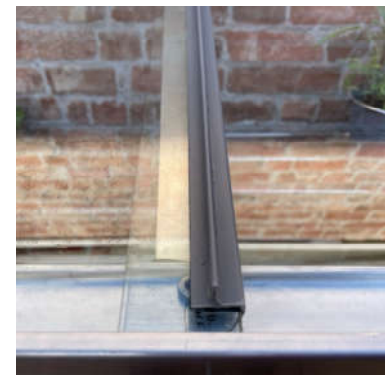
When closed, both panels will tuck behind the corner trims to keep them secure. Before sliding the right hand panel open, slide the left hand panel open by approx 1" to release it from behind the corner trim.



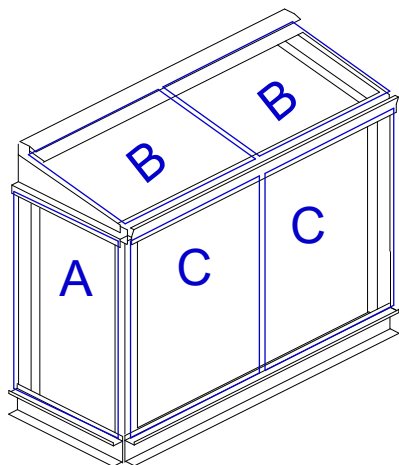
A. Fitting the glass



Glass in channel with two sheets overlapping



Roof glass overlapping



AN2 3'4" Half Westminster			BN2 5'0" Half Westminster		
A	298mm x 750mm	Qty: 2	A	298mm x 750mm	Qty: 2
B	298mm x 500mm	Qty: 2	B	298mm x 750mm	Qty: 2
C	750mm x 500mm	Qty: 2	C	750mm x 750mm	Qty: 2
End glass (A) has no handles					

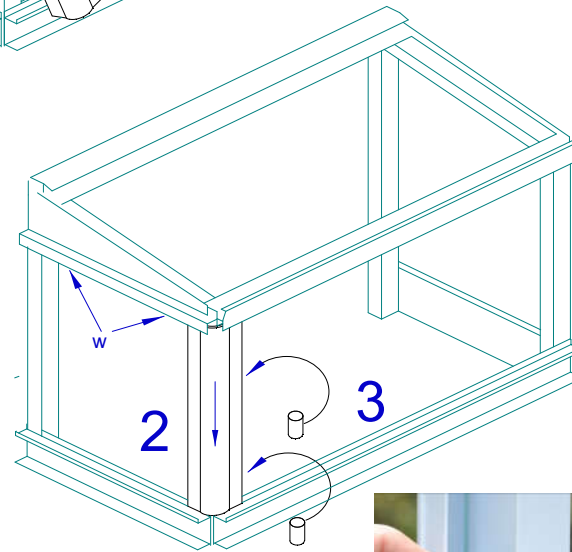
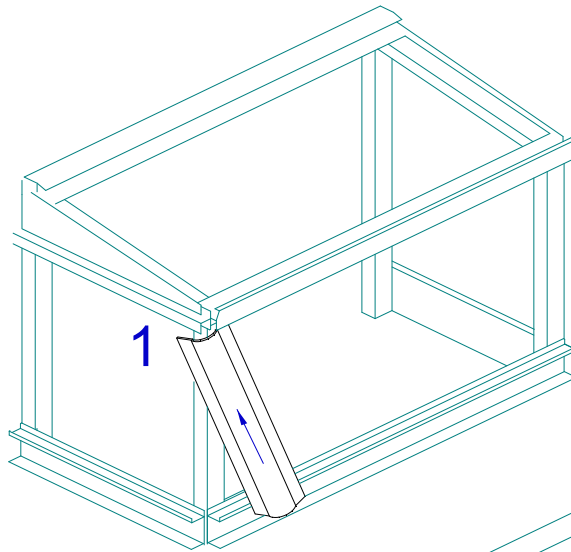
FITTING THE GLASS

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

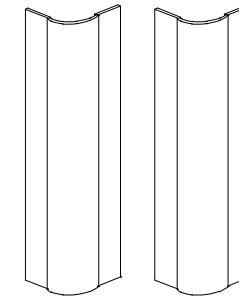


Located in pack:SCREW-P4



Fitting the hollow tube

Aluminium corner trims



You also need:
2 bags marked
TRIM-4



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 corner.



Corner trim in place

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 6.
GLASS STICKS TOGETHER	This is normally due to the handles not being put on the right side of the glass. See page 10 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 6.

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.

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!