Lean-to Greenhouse Assembly Instructions

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Frames

Profile	Description	Qty	Code
	Side - Lower Horizontals (6ft)	1	A1-6
	Side - Upper Horizontals (6ft) (Gutter Bar)	1	A2-6
J.	Side Glazing Uprights	2	A3
	Side and End Long Diagonal Brace	4	G1
	Roof and Non-Door End Polycarb-Dividing Horizontal Braces	3	D4
	Door and Back End Glazing Door Vertical (Left)	1	B3-1
	Door and Back End Glazing Door Vertical (Right)	1	B3-2
	Corner Verticals	2	H1
	Door and Back End Lower Horizontal (Left)	1	C1-1
	Door Runner Support (Left End)	1	C2-1
	Door Runner Support (Right End)	1	C2-2
	Door Upright - Wall End (Left)	1	C3-3
W J	Door Upright - Wall End (Right)	1	C3-4
Sel la	Roof Edge Beam (Left)	1	C4-3
S	Roof Edge Beam (Right)	1	C4-4
- F	Door Runner	1	C5-1
	Front and Back End Short Horizontal Braces	2	G1-1
	Ridge Beam		D2
	Roof Glazing Bar		D3-1
	Door Upright	2	E1
	Door - Upper Horizontal	1	E2

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Frames (continued)

Profile	Description	Qty	Code
	Door - Lower Horizontal	1	E3
U	Door - Mid Horizontals	2	E4
	Door Runner Mount	1	E5
1	Door Runner End Support	1	E6
	Vent Horizontal Mount	1	F1
A COLORING COLORING	Vent Back Bar	1	F2
	Vent Front Bar	1	F3
6	Vent Side Bars	2	F4

Components

Profile	Description	Size (mm)	Qty	Code
0	Corner Plates		2	G2
Ø	Door Runner Support Brackets	15	2	E9
	Profile End Caps		4	G3
8	Door Screws	No 6 x 19	14	619
 Ammunut 	Door Bottom Runner Screws	No 6 x 19 (4mm)	2	619W
Summe	Door Runner Wheel Bolts	M4 x 16	2	M416
9	Nut For M416	M4	2	M4-1
(2)	Washer For M416	M4	2	M4-2
Sammun	Door Spacer Bolt	M6 x 40	1	M640
9	Nut For M640	M640	1	M6-1
8	Door Seal	1610	2	E10
8	Door Base Sliders		2	E11
9	Door Runner Wheels		2	E12
	Door Gear Spacer	1	1	E13
D	Door Handle		1	E14
	Vent Stay		1	F10
	Vent Catch		2	F12
4	Vent Catch Screws	No 6 x 6	8	66
V	Glazing Clips		112	G4
6	Rubber Glazing Seal	3000	1	G5
	Gutter End Caps		2	A20
Ð	Bolts	M6 x 10	70	M610
9	Nuts For M6	M6	70	M6-1
C	Spanner		1	M10

Introduction

Safety

Precautions when assembling a greenhouse:

The wearing of protective gloves and stout footwear is essential when handling glass and recommended even for Polycarbonate which does not shatter but has sharp edges.

Protective goggles are recommended whilst handling glass and the glazing spring clips.

Assembly of the greenhouse frame is much easier with two people and essential for glazing with glass.

Site selection:

Choose a site in maximum light, ideally with no direct shade.

Avoid overhanging trees as much as possible as leaves will make regular cleaning necessary and broken branches are a potential hazard.

Small trees, bushes or fences nearby can be helpful, acting as a wind break.

A position close to the house will make access easier for watering and tending plants and also make it easier to supply power cables or automatic watering systems if required.

Site selection & preparation:

The site must be prepared so that the base of the greenhouse is level all round and checking with a spirit level is required.

Base options & construction:

The use of our purpose-made, galvanised steel base is recommended. They are

made to fit these greenhouses.

It is easier to maintain a level and square foundation.

They are easy to install, requiring little expertise: full instructions are included in the pack.

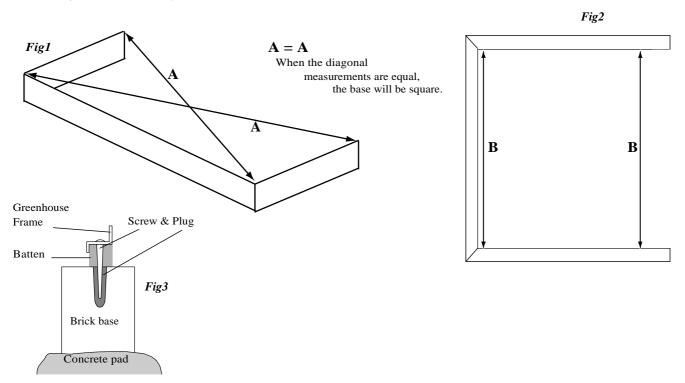
Bases can also be constructed from bricks, blocks, or mounted on a concrete pad.

The bricks or blocks should be cemented onto firm and level concrete footings and the greenhouse frame drilled and screwed to the base. *Fig3*.

If a concrete pad is made, it is important that this slopes away from buildings and walls to prevent water damage. Time must be allowed for any concrete or cement to dry before mounting the greenhouse.

The base must be square or the greenhouse will be distorted. A=A Fig1 & B=B Fig2.

The greenhouse must be firmly fixed to the ground and to the wall: the base should be constructed and installed before the greenhouse assembly is undertaken.



Before you start:

IMPORTANT: Read the instructions completely before starting assembly.

• Construct the base first so that the greenhouse can be securely mounted when completed.

• Find someone to help you: it is much easier with someone to hold parts, pass tools etc. This is not very heavy work so would suit most able-bodied people.

• <u>Allow plenty of time</u>: rushing often causes errors and the re-doing of incorrect assemblies. If you have never built a greenhouse before, it can take most of a day to carefully complete the construction.

• Have the right tools to hand:

• Cross head and flat head screwdrivers and a 10mm Spanner: a ratchet socket set is ideal.

• An electric drill or screwdriver with appropriate attachments is also very suitable.

• <u>Lay out the parts by greenhouse section</u>, ideally around the base as shown, and check that all are present before commencing construction. Lay on cloths or plastic sheets if there is any risk of scratching the parts.

• Follow the construction sequence.

•Side section

Door and Back ends

•Door Support Gear

•Frame assembly and roof

•Door

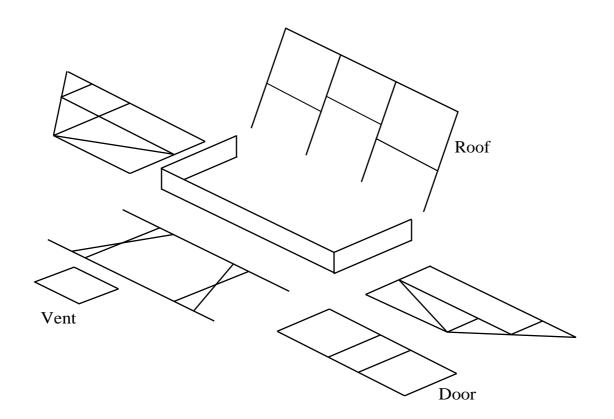
•Vent

•Glazing

• All illustrations are based on viewing the parts from the inside of the greenhouse, except where stated.

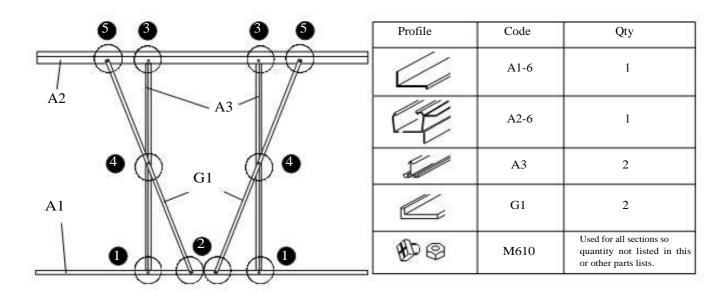
• <u>Assemble the greenhouse loosely</u> where possible and tighten when all in place so that minor adjustments can be made. Note that some nuts will need to be tightened to keep them in place.

• <u>Tighten all nuts carefully</u>, being sure not to miss any: NOTE: These are aluminium so should not be over-tightened. Check the frame is square and using a spirit level to check that it is upright.



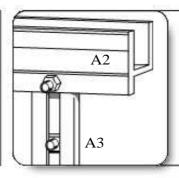
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A Greenhouse Side

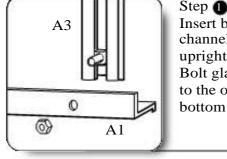


Introduction

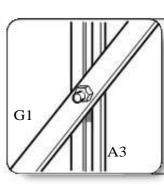
Lay parts on the ground, as pictured at the top of this page. Assemble loosely with the nuts to the inside of the structure.



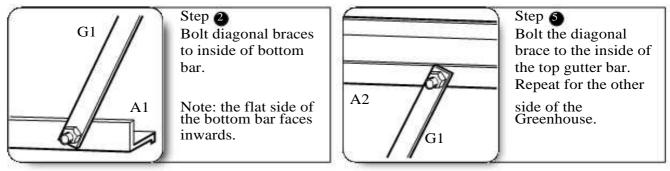
Step 3 Before bolting the glazing uprights to the outside of the top gutter bar, insert bolts into the channels for fixing the diagonal braces.



Step **1** Insert bolt into the channel in the upright (A3). Bolt glazing uprights to the outside of the bottom bar.



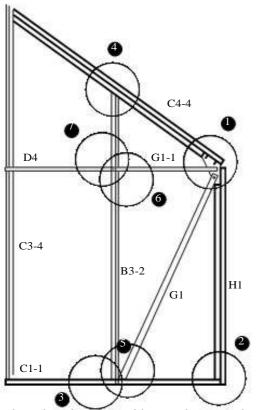
Step 4 Use the inserted bolts (see 3) to secure the diagonal braces to the uprights. Do not tighten yet.



Pictures viewed from inside the Greenhouse except where stated

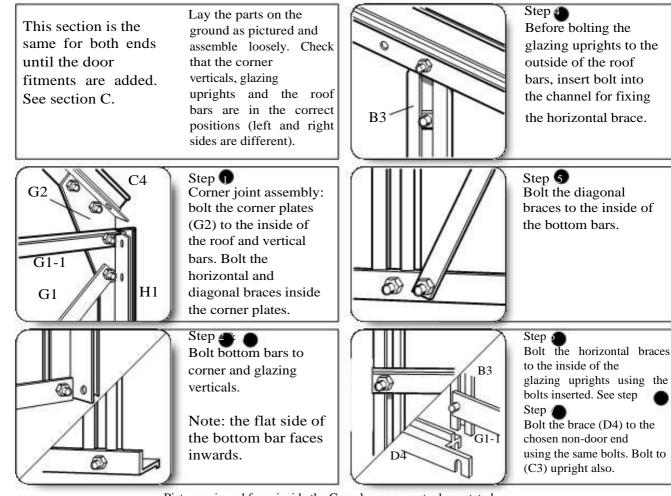
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B Greenhouse Ends



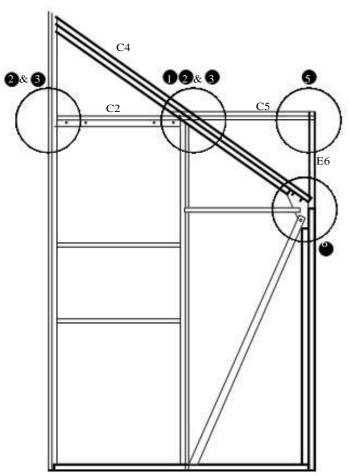
This is the right end viewed from inside. Reverse for left end.

Profile	Code	Qty
Le	C3-3/C3-4	2
ſ.	D4-1	1
L/	C4-3/C4-4	2
	G1	2
Ľ	G1-1	2
S	B3-1/B3-2	2
A Contractions	H1	2
	C1-1	2
Ċ,	G2	2
P Q	M610	Used for all sections so quantity not listed in this or other parts lists.



Pictures viewed from inside the Greenhouse except where stated

C Adding the Door Running Gear

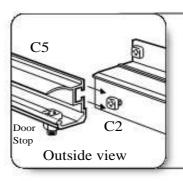


Note: Door can be fitted at either end

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Profile	Code	Qty
K	C2-1 / C2-2	2
	C5	1
\sim	E6	1
	E9	2
	E13	1
Summe	M640	1
9	M6-1	1
P 9	M610	Used for all sections so quantity not listed in this or other parts lists.

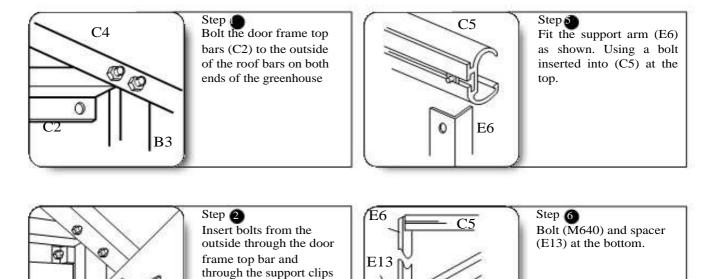


M640

Outside view

Step Solide the door runner bar over the bolt heads and into position with the edge flush with the door frame. Tighten nuts. Step Solide the door

bolt into the end hole of the door runner bar to act as a door stop.

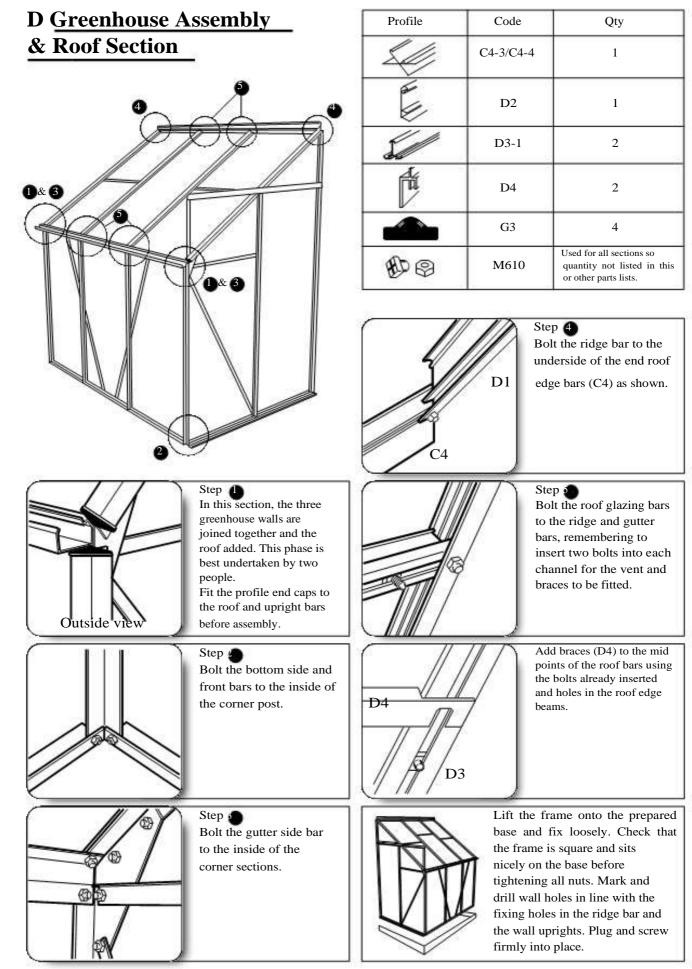


Pictures viewed from inside the Greenhouse except where stated

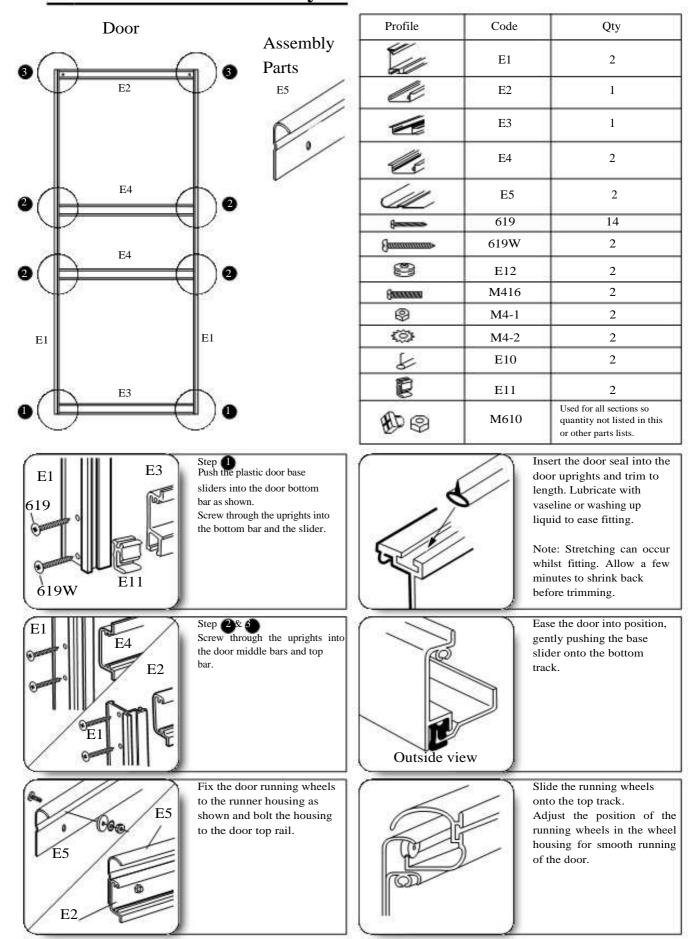
(E9) and attach nut loosely. Hook support

door uprights.

clips into groove in the



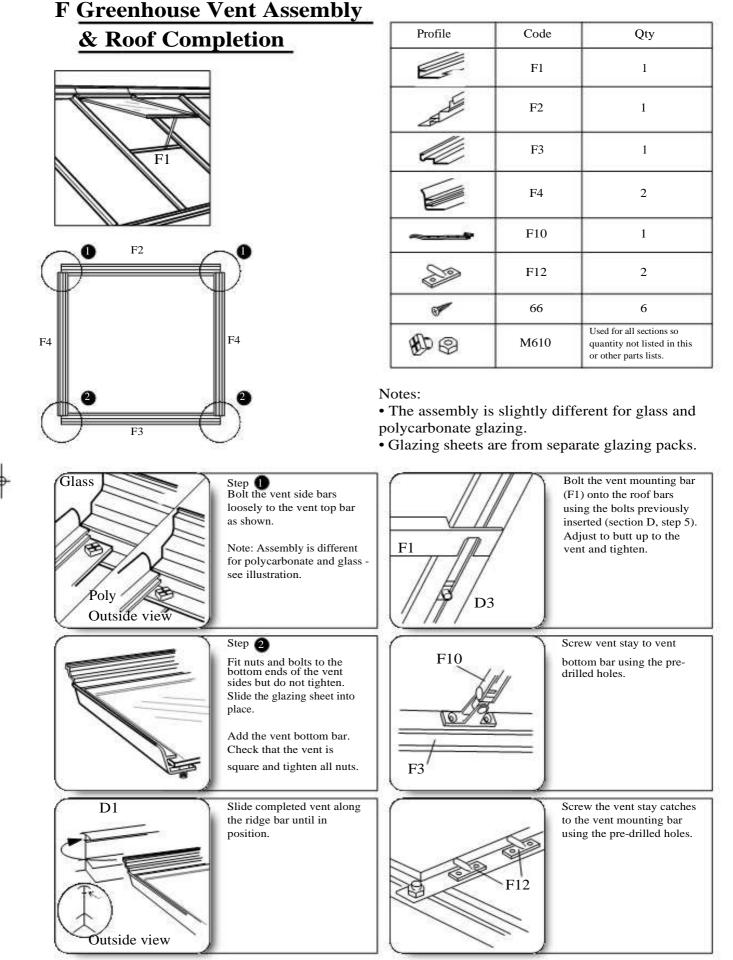
Pictures viewed from inside the Greenhouse except where stated



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E Greenhouse Door Assembly



Pictures viewed from inside the Greenhouse except where stated

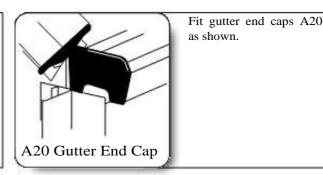
Glazing & Finishing

NOTE: Glazing instructions are included in the glazing pack.

Profile	Code	Qty	Profile	Code	Qty
6	G5	30m		E14	1
	A20	2		M10	1
2	G4	112			



Glazing Bead G5 must be applied to all glazing bars prior to glazing with polycarbonate or glass. Fit to bars as shown and trim to length. Note: Stretching can occur when fitting. Allow a few minutes to shrink back before trimming.





Add door handle to one of the door mid bars as required

Accessories

You can enhance your greenhouse with a number of accessories including:

• 1 Tier Staging

• 2 Tier Staging

• Fold-away Shelf

- Fold-away Staging
- Auto Vent
- Rainwater Kit

- Louvre Vent
- Ridge Decoration

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