VERDA HOUSE

Assembly guide

Verda Arch · 4 m wide



2 people
for the whole build

3 to 6 hours
from the first beam to the doors

6 steps
each with its drawing and its parts

Before you start

Your greenhouse arrives **pre-assembled**: the end walls, the doors and the trusses are built at the factory. You join them, lay the polycarbonate and anchor the greenhouse. Read this guide once before you start.

2	1 day	4 m	+2 m
people, at least	finish the build the day you start it	base kit length	each extension kit

Check your delivery

- Count the parcels against your delivery note.
- If a parcel is damaged, write it on the carrier's document before you sign.
- Open the parcels and check the parts against the list on the next pages.
- Something missing or damaged? Tell us **within 3 days** of delivery, with photos, and before you start building.

Tools

- Cordless drill, with 5 mm and 10 mm drill bits
- Cross-head screwdriver and 5 mm hex key
- Hammer
- Spirit level, try square and tape measure
- Step ladder
- Work gloves: some parts have sharp edges

Choose the right day

- A dry day with little wind: build only when the wind stays under **4 to 5 m/s**.
- Follow the safety instructions of your ladder and your power tools.

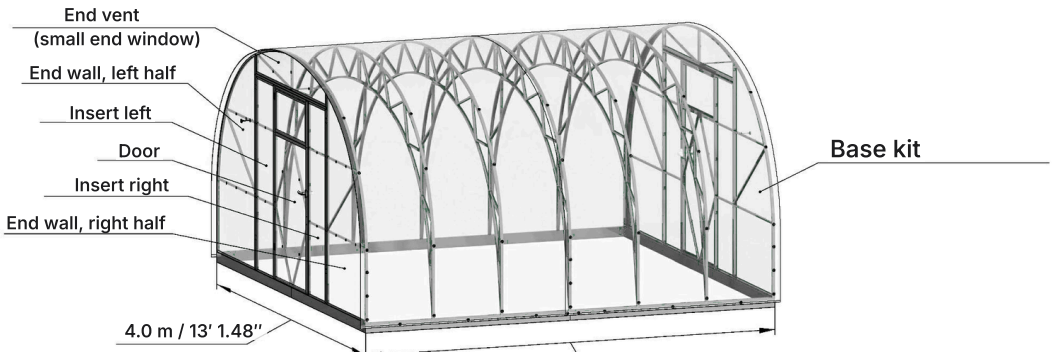
Choose the right spot

- Firm, level ground.
- At least **2 m** away from buildings and trees that can drop snow or ice.
- A flat area next to it to put the parts together.

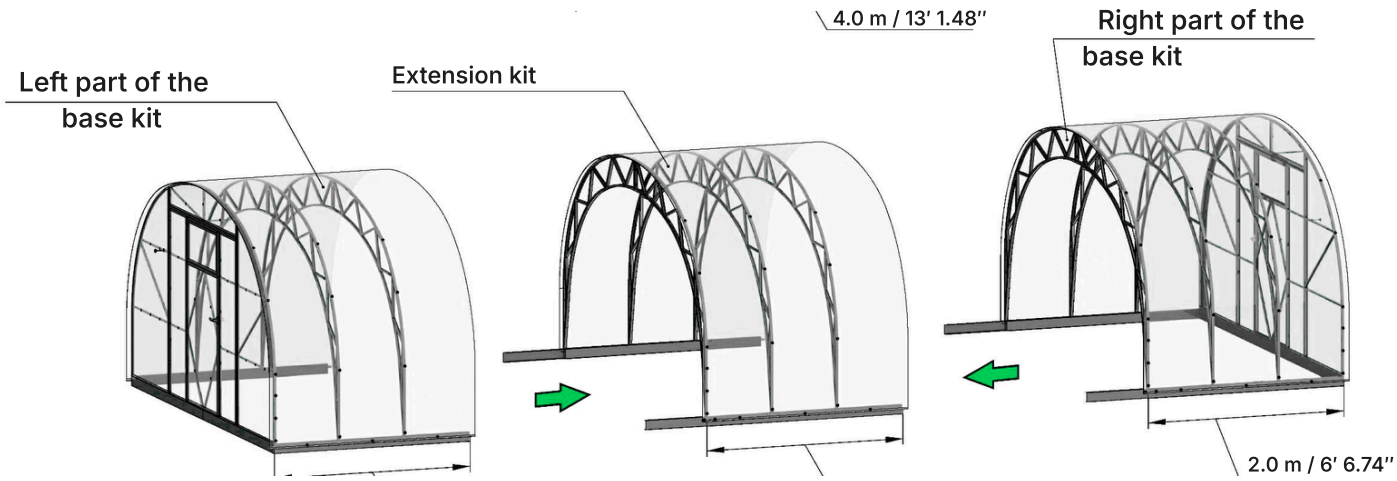
Important The polycarbonate has a side marked **UV**, covered with a white film. That side always faces **outside**. Peel the protective film off both sides of each sheet, and off the metal parts, just before fitting.

Your greenhouse at a glance

The base kit is **4 m long**. Each extension kit adds **2 m** in the middle: one more section between the two ends.



The base kit, 4 m wide and 4 m long



An extension goes between the two halves of the base kit

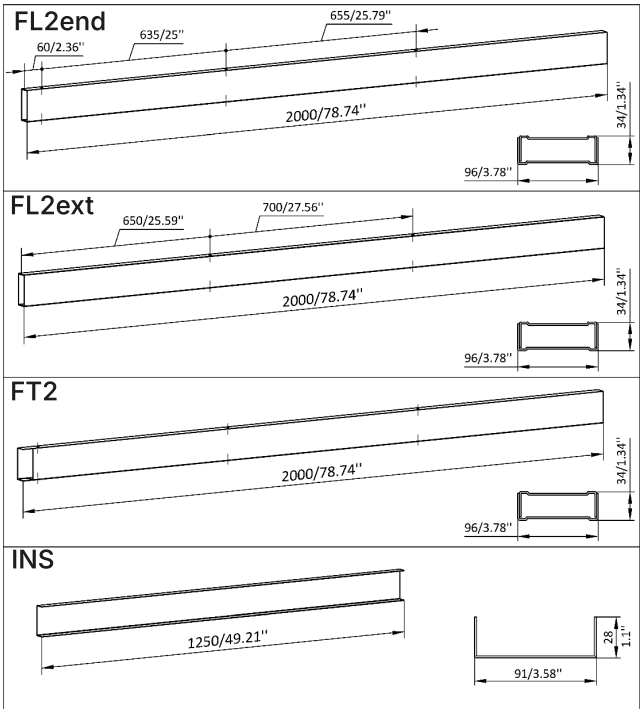
What is in the parcels

Quantities for each greenhouse length. For a longer greenhouse, add the last column once for every extra 2 m.

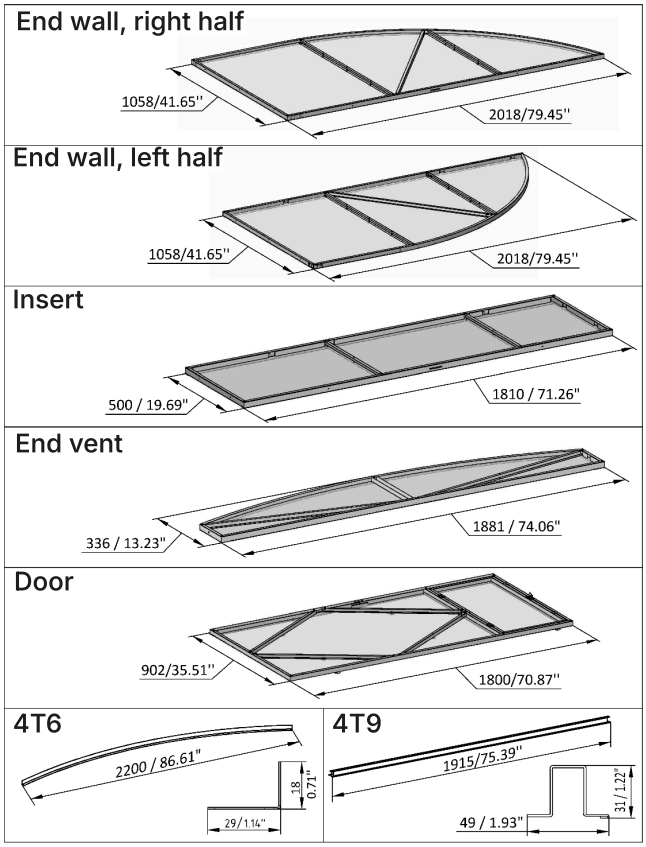
Part	Marked	4 m	6 m	8 m	10 m	12 m	Each extra 2 m
Frame							
End wall, left half (polycarbonate fitted)		2	2	2	2	2	0
End wall, right half (polycarbonate fitted)		2	2	2	2	2	0
End wall insert		4	4	4	4	4	0
End vent		2	2	2	2	2	0
Door		2	2	2	2	2	0
Truss (half arch)	`Truss`	10	16	22	28	34	6
Plank (top of the arch)	`Plank`	5	8	11	14	17	3
Side base beam, end	`FL2end`	4	4	4	4	4	0
Side base beam, extension	`FL2ext`	0	2	4	6	8	2
End base beam	`FT2`	4	4	4	4	4	0
Beam connector	`INS`	4	6	8	10	12	2
End wall profile	`4T6`	2	2	2	2	2	0
End wall profile	`4T9`	2	2	2	2	2	0
Corner bracket	`L_55x70`	4	4	4	4	4	0
Anchor bracket	`L_40x90`	8	10	12	14	16	2
Ground anchor		8	10	12	14	16	2
Polycarbonate							
Polycarbonate sheet 2100 × 7000 mm		2	3	4	5	6	1
U-profile, 2100 mm		4	6	8	10	12	2
Anti-dust tape (metres)		8.4	12.6	16.8	21.0	25.2	4.2
Doors							
Door handle		4	4	4	4	4	0
Door lock		2	2	2	2	2	0
Lock cover	`DV12`	2	2	2	2	2	0
Square spindle		2	2	2	2	2	0
Lock screw M5 × 35		4	4	4	4	4	0
Door magnet set	`M`	2	2	2	2	2	0
Screws, bolts and washers							
Screw 4.2 × 19		334	418	502	586	670	84
Screw 4.2 × 25		16	32	48	64	80	16
Bolt M6 × 16		10	16	22	28	34	6
Wing nut M6		10	16	22	28	34	6
Washer 25 × 6.5		112	162	212	262	312	50
Plastic washer 24 × 8.4		4	4	4	4	4	0

Know your parts

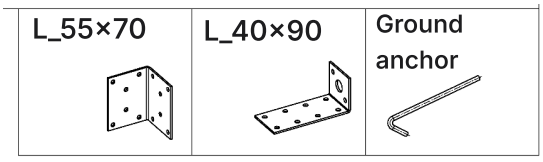
The marks in the drawings are the ones in the parts list. Sizes are in millimetres and inches.



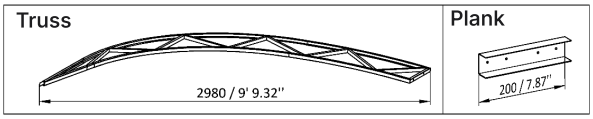
Base beams and connector



End wall halves, insert, end vent, profiles 4T6 and 4T9, door

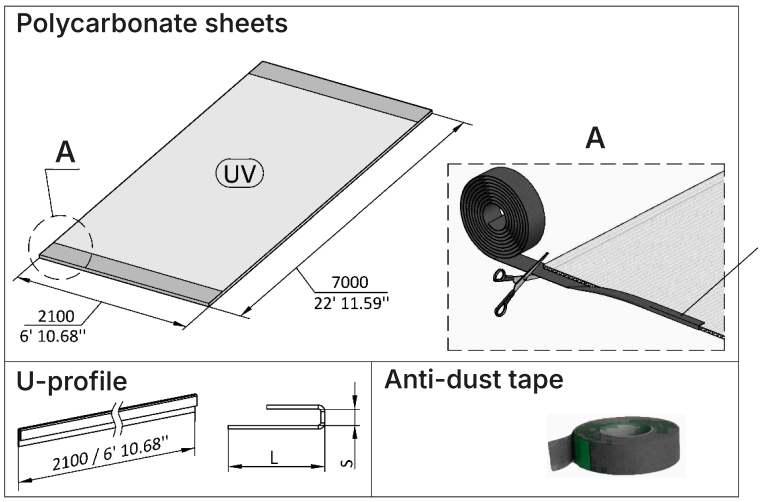


Corner bracket, anchor bracket, ground anchor

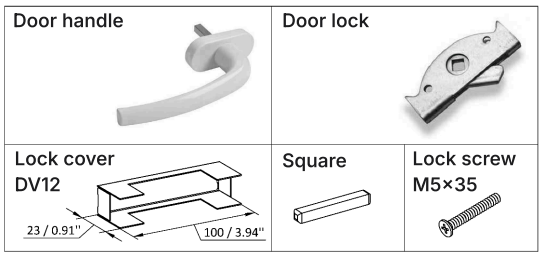


Truss (half arch) and plank

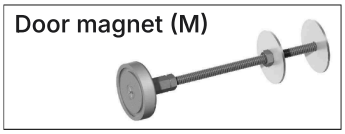
Know your parts, continued



Polycarbonate sheet, U-profile and anti-dust tape



Door handle, lock, lock cover, square spindle, lock screw



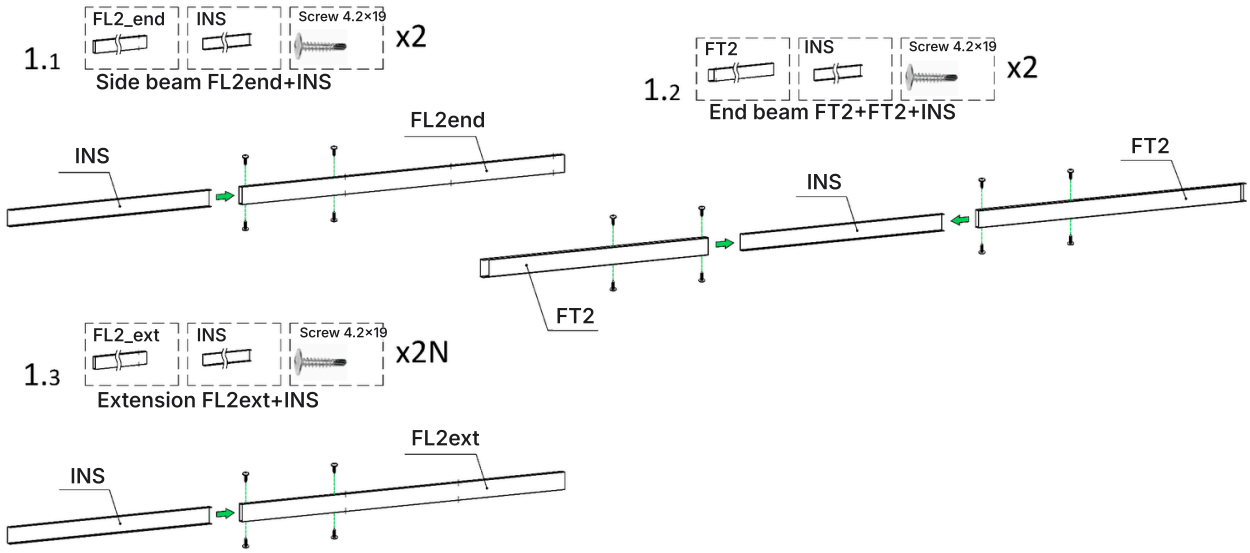


Door magnet, screws, bolt, wing nut, washers

Tip The **anti-dust tape** closes the open edges of the polycarbonate: it keeps dust, dirt and insects out, lets condensation escape and stops mould from forming inside the sheet.

Important Tighten the screws on the polycarbonate until the washer touches the sheet, and stop there. A screw that is too tight dents the sheet.

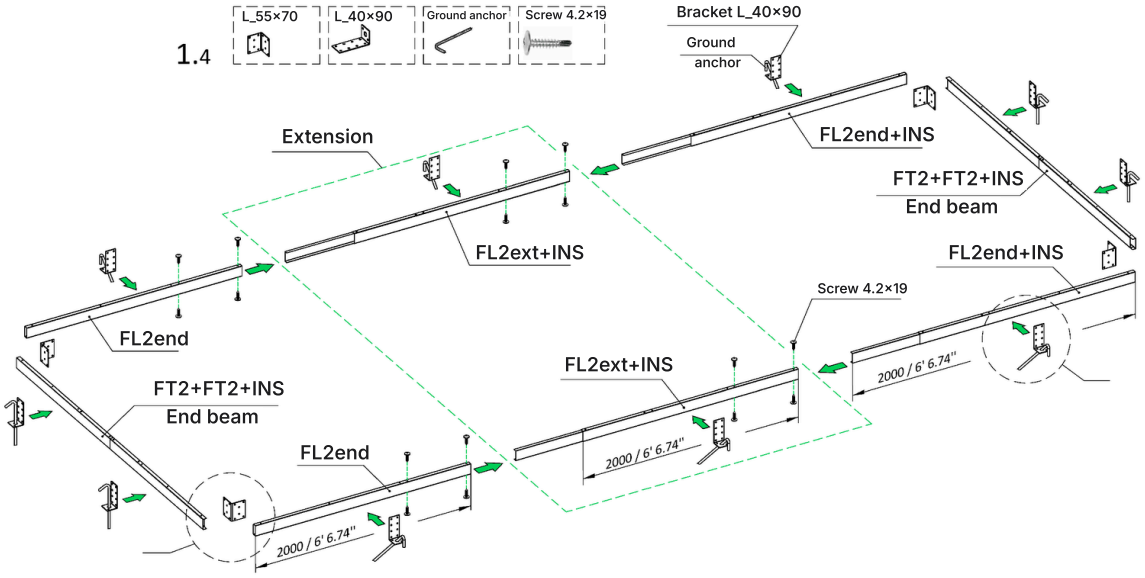
1 Build the base frame

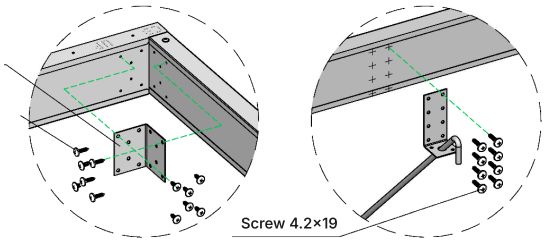


1. On flat ground, make the two **side beams**: join two `FL2end` with one connector `INS`. For each extension, add one `FL2ext` and one `INS` on each side.
2. Make the two **end beams**: `FT2` + `INS` + `FT2`.
3. Fix every joint with screws 4.2 × 19.

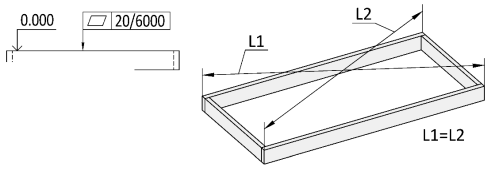
You need	Marked	Base kit	Each extension
Side base beam, end	`FL2end`	4	0
Side base beam, extension	`FL2ext`	0	2
End base beam	`FT2`	4	0
Beam connector	`INS`	4	2

1 Build the base frame, continued





Corner bracket (B) and anchor bracket (C)

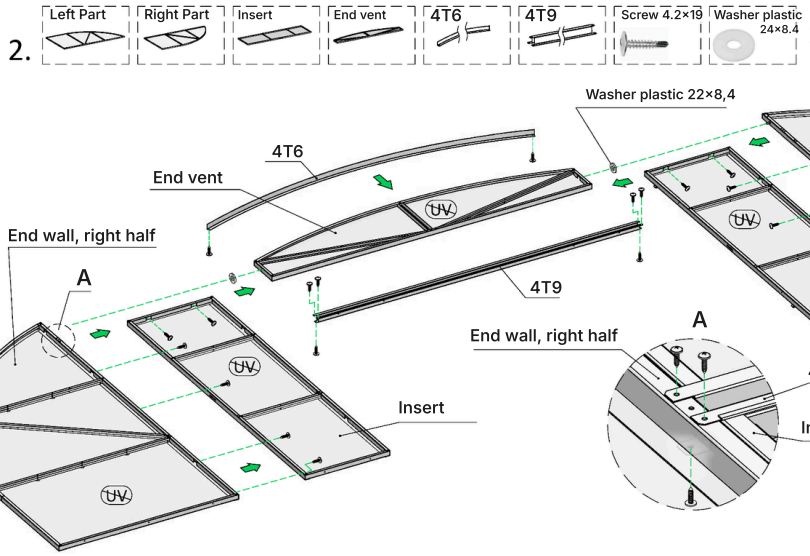


Both diagonals equal: L1 = L2

1. Lay the side beams and the end beams out as a rectangle, and join the four corners with the **corner brackets** `L_55x70` (detail B).
2. Measure both diagonals. The frame is square when **L1 = L2**.
3. Check the frame with a spirit level: it may be out by **20 mm at most over 6 m**. The polycarbonate only fits well on a level frame.
4. Screw the **anchor brackets** `L_40x90` to the outside of the frame, at the places shown (detail C). You drive the anchors in at the very end, in step 6.

You need	Marked	Base kit	Each extension
Corner bracket	`L_55x70`	4	0
Anchor bracket	`L_40x90`	8	2
Ground anchor		8	2
Screw 4.2 × 19		144	32

2 Put the end walls together



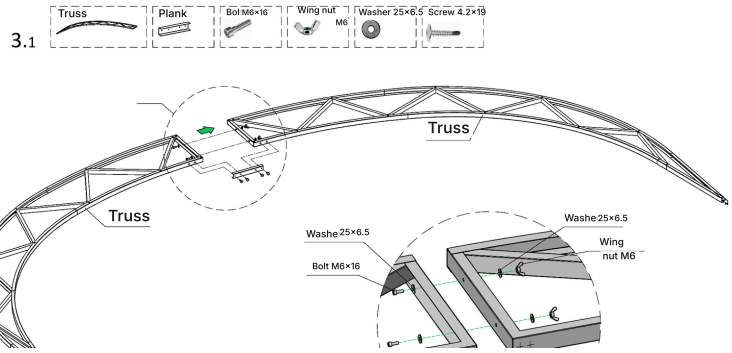
End wall, assembled

1. Lay the left and right halves of one end wall flat, the side marked **UV** facing out.
2. Screw an **end wall insert** to each half: left half and insert, right half and insert.
3. Put a plastic washer on each pin of the two halves, then fit the **end vent** between them: the pins go into the holes of the vent.
4. Fit the profiles `4T6` and `4T9`: line up the holes and screw them to the two halves with screws 4.2 × 19.
5. Check that the end vent swings freely.
6. Build the second end wall the same way.

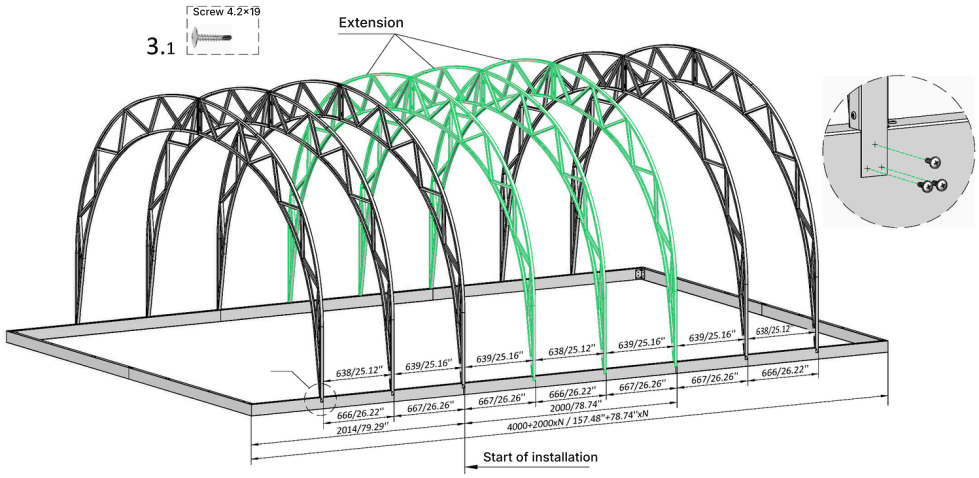
> **Tip** If you bought an opener for the end vents, fit it now: it stops the vent from swinging open during the build.

You need	Marked	Base kit	Each extension
End wall, left half		2	0
End wall, right half		2	0
End wall insert		4	0
End vent		2	0
Profile	4T6	2	0
Profile	4T9	2	0
Screw 4.2 × 19		44	0
Plastic washer 24 × 8.4		4	0

3 Assemble the trusses and stand them up



A: two half arches, joined at the top

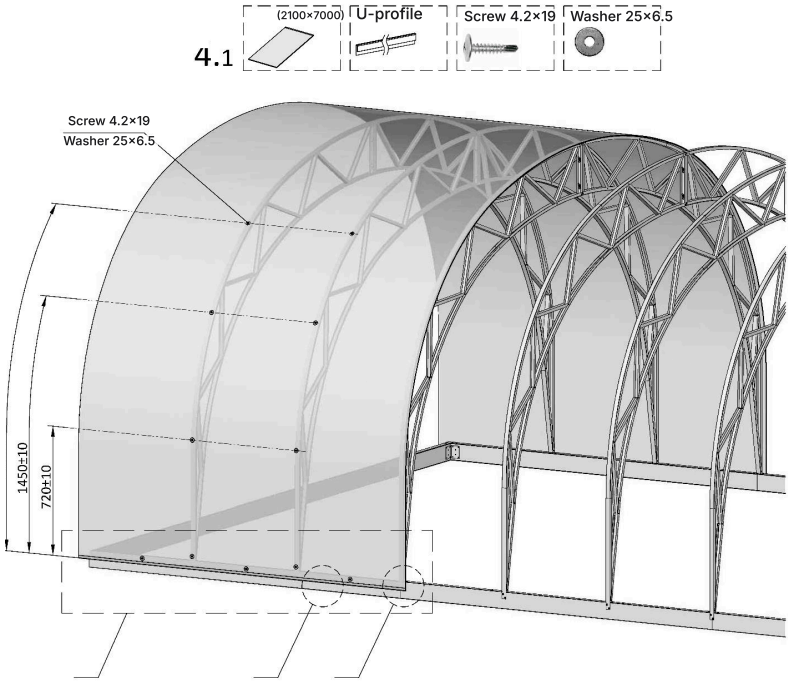


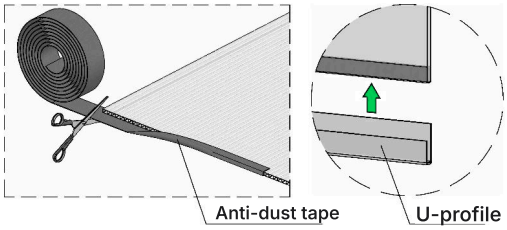
B: one arch at every mark of the base frame

1. Lay two **trusses** (half arches) flat and join them at the top with bolts M6 × 16, washers 25 × 6.5 and wing nuts (drawing A). That is one arch.
2. Screw the **plank** across the middle of the joint between the two trusses with screws 4.2 × 19 (drawing A).
3. Stand each arch on the base frame at its mark and screw both feet to the frame with screws 4.2 × 19 (drawing B).

You need	Marked	Base kit	Each extension
Truss (half arch)	`Truss`	10	6
Plank	`Plank`	5	3
Bolt M6 × 16		10	6
Wing nut M6		10	6
Washer 25 × 6.5		20	12
Screw 4.2 × 19		50	30

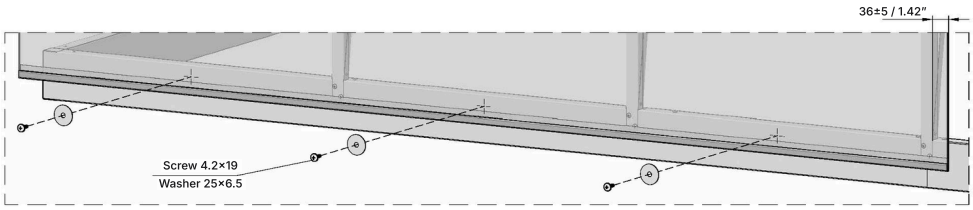
4 Lay the polycarbonate





A: tape the open edges. B: push on the U-profile

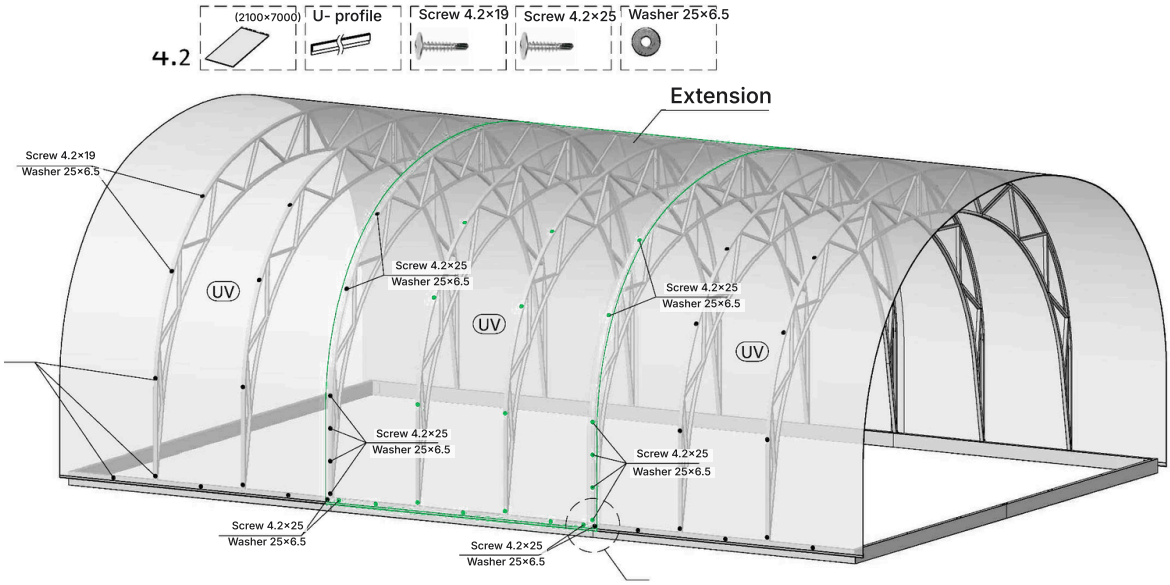
Important Before the first sheet, check the diagonals and the level of the base frame once more. The sheets only fit on a square, level frame.

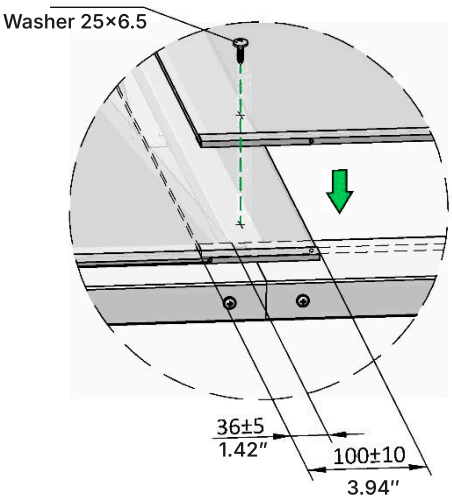


C: where the bottom edge of the sheet sits on the side beam

1. Peel the film off both sides of the sheet. The side marked **UV** faces outside.
2. Stick **anti-dust tape** along the two open edges of the sheet (A), then push a **U-profile** over each taped edge (B).
3. Start at one end of the greenhouse. Lay the sheet over the arches and line its bottom edge up with the side beam (C). Fix it to the trusses with three screws on that side.
4. Pull the sheet tight over the arches and screw the other side to the base frame.
5. Set each truss upright behind the sheet: the sheet must sit snugly along the whole truss.
6. Screw the sheet to the trusses at the marked points, each screw with a washer 25 × 6.5. Stop when the washer touches the sheet.

4 Lay the polycarbonate, continued



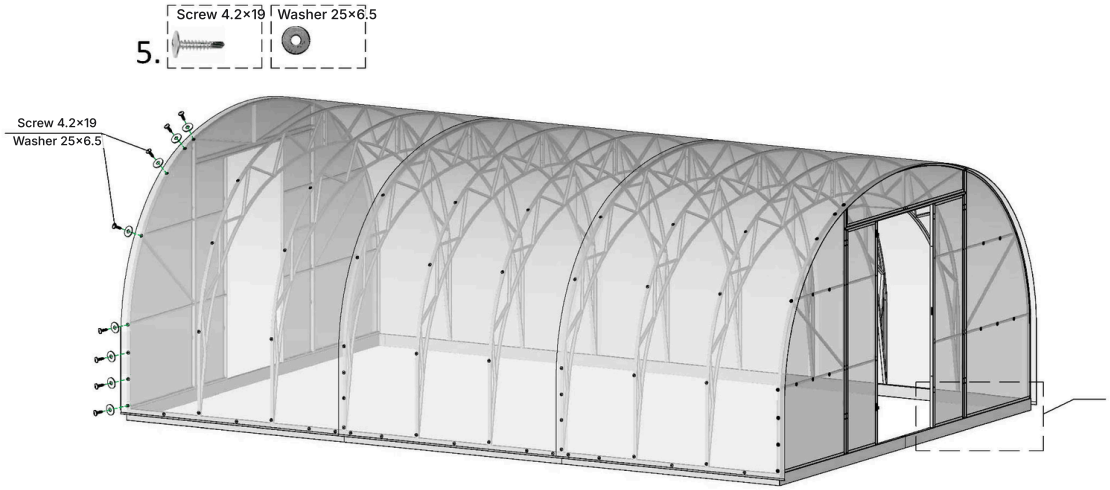


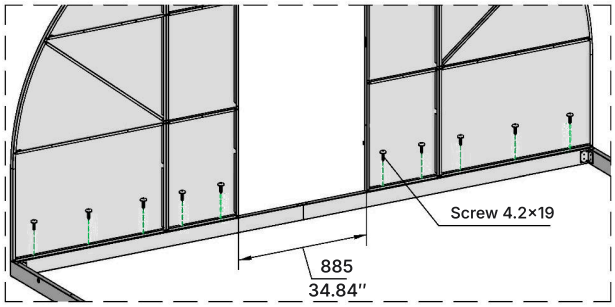
C: the next sheet overlaps the one before

1. Fit the next sheets the same way, one after the other, to the far end.
2. Line each new sheet up on the one before it as in detail C.

You need	Marked	Base kit	Each extension
Polycarbonate sheet 2100 × 7000		2	1
U-profile, 2100 mm		4	2
Anti-dust tape (metres)		8.4	4.2
Screw 4.2 × 19		44	22
Screw 4.2 × 25		16	16
Washer 25 × 6.5		60	38

5 Fit the end walls



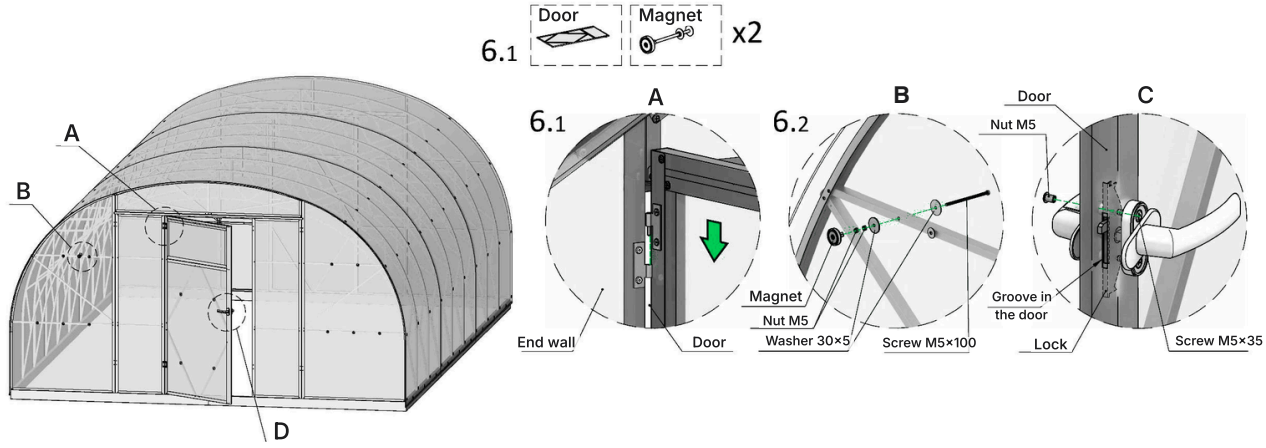


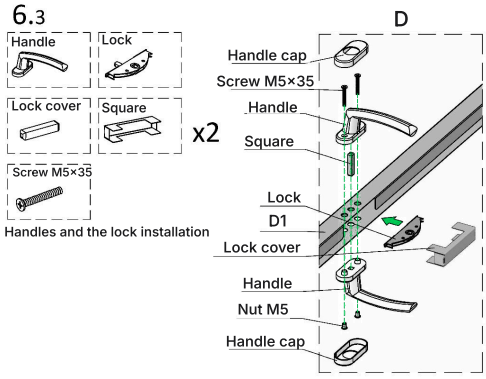
A: 885 mm between the two halves

You need	Marked	Base kit	Each extension
Screw 4.2 × 19		52	0
Washer 25 × 6.5		32	0

1. Stand each end wall on the end beam of the base frame and slide it carefully under the polycarbonate. Its outside face is flush with the outside of the base frame.
2. Keep **885 mm** between the two halves of the end wall, then screw them to the base frame (detail A).
3. Screw the polycarbonate to the end walls at the marked points, each screw with a washer. Stop when the washer touches the sheet.

6 Anchor the greenhouse and hang the doors





6.3: handle, lock and lock cover

1. **Anchor the greenhouse.** Push a ground anchor through the hole of each anchor bracket and drive it into the ground at 45°. On a concrete base, fix the brackets on the inside of the frame with fixings suited to your slab (not supplied).
2. Hang the two **doors** on their hinges (6.1).
3. **Magnet:** drill a hole in the polycarbonate of the left end wall half, pass the screw through and fix the magnet (6.2). Check that it holds the door open.
4. **Handle:** drill three holes in the polycarbonate of the door, in line with the holes of the door frame. Assemble the lock with its latch out, then fit the two handles and the lock cover (6.3).
5. Handle down: the door is locked. Handle to the side: it opens. The handles must turn freely.
6. If the latch does not meet its slot, loosen the M5 nuts, turn the lock screws M5 × 35 to move the lock, and tighten the nuts again.

You need	Marked	Base kit	Each extension
Door		2	0
Door magnet set	`M`	2	0
Door handle		4	0
Door lock		2	0
Lock cover	`DV12`	2	0
Square spindle		2	0
Lock screw M5 × 35		4	0

Looking after your greenhouse

Day to day

- Close the doors when you leave: never leave a door open in strong wind.
- If the greenhouse stays unattended all winter, clear the snow from the roof or make sure the snow load stays within its limit.
- Keep the greenhouse anchored at all times.
- Do not change the structure.

Your warranty

- **10 years** on the polycarbonate.
- **10 years** on the galvanised steel trusses.
- **2 years** on the doors, windows, locks, hinges and all other parts.
- Keep your invoice: the warranty applies to a greenhouse built and anchored as this guide shows, and used as described here.

Not covered

- A build that does not follow this guide, or a greenhouse that is not anchored.
- Changes to the structure, or a use the greenhouse is not made for.
- Damage from a snow load above its limit, or from movement of the ground.

Tip A question during the build? Write to us through **verdahouse.com/contact**: send a photo, we answer with the step you need.