VERDA HOUSE

Assembly guide

Verda Gable · 3 m wide



2 people
for the whole build

3 to 6 hours
from the first beam to the doors

8 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, fit the polycarbonate and anchor the greenhouse. Read this guide once before you start.

2	1 day	4.13 m	+2.11 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.
- Never step on the roof.

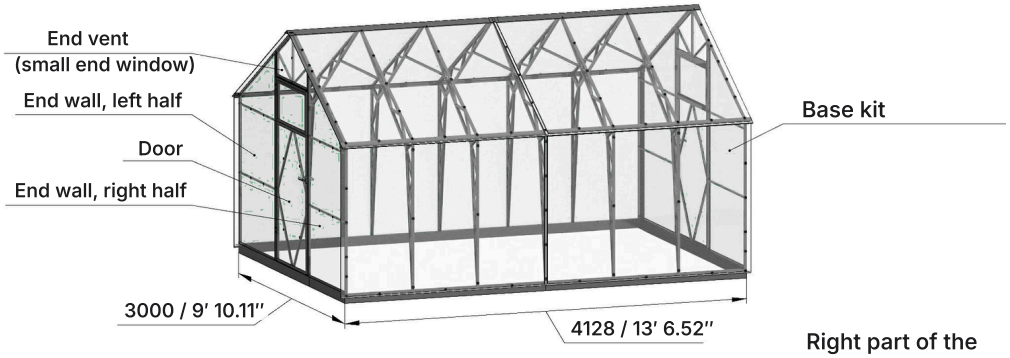
Choose the right spot

- 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.

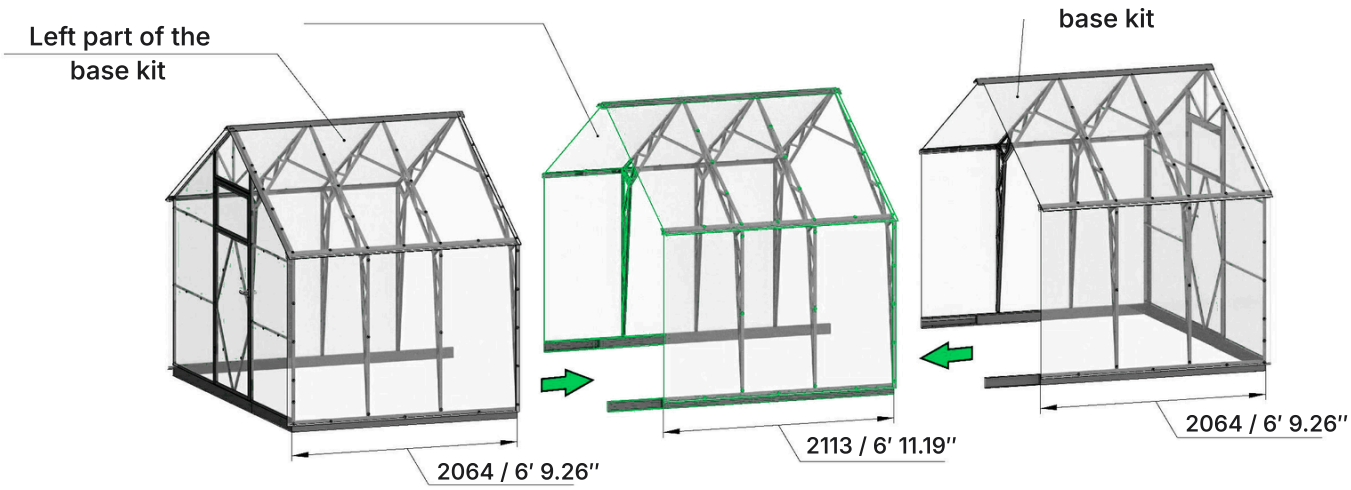
Important The polycarbonate has a side marked **UV**, covered with a white film. That side always faces **outside**. Peel the protective film off both sides of each panel, and off the metal parts, just before fitting.

Your greenhouse at a glance

The base kit is **4.13 m long**. Each extension kit adds **2.11 m** in the middle: one more section between the two ends.



The base kit, 3 m wide and 4.13 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 2.11 m.

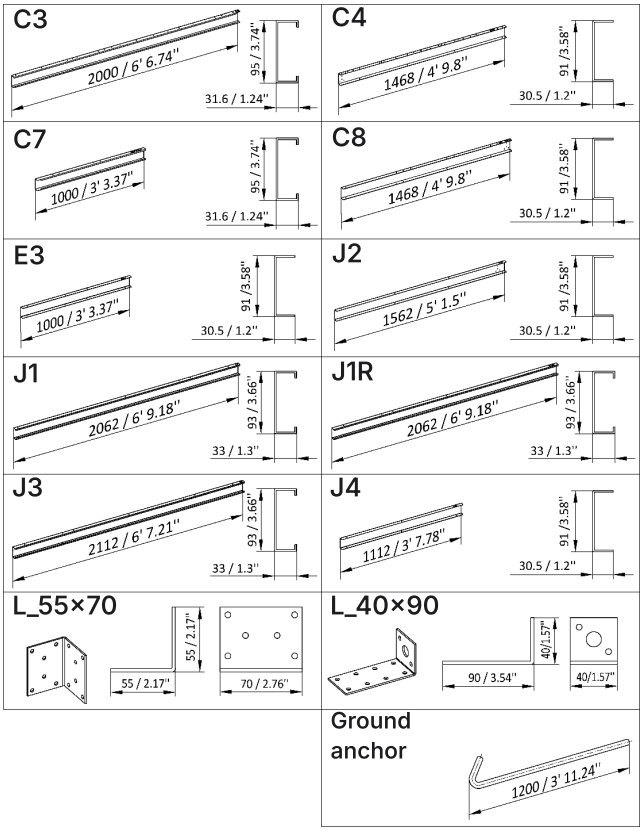
Part	Marked	4.13 m	6.24 m	8.35 m	10.47 m	12.58 m	Each extra 2.11 m
Frame							
End wall, left half (polycarbonate fitted)		2	2	2	2	2	0
End wall, right half (polycarbonate fitted)		2	2	2	2	2	0
End vent		2	2	2	2	2	0
Door		2	2	2	2	2	0
Roof truss	`Truss top`	10	16	22	28	34	6
Wall truss	`Truss leg`	10	16	22	28	34	6
Truss connector	`U3`	5	8	11	14	17	3
End base beam, part	`C3`	2	2	2	2	2	0
End base beam, part	`C4`	2	2	2	2	2	0
End base beam, part	`C7`	2	2	2	2	2	0
End base beam, part	`C8`	2	2	2	2	2	0
Side base beam, part	`J1`	2	2	2	2	2	0
Side base beam, part	`J1R`	2	2	2	2	2	0
Side base beam, part	`J2`	4	4	4	4	4	0
Side base beam, extension	`J3`	0	2	4	6	8	2
Side base beam, extension	`J4`	0	2	4	6	8	2
Beam connector	`E3`	2	4	6	8	10	2
End wall profile	`T9`	2	2	2	2	2	0
End wall profile	`H12`	2	2	2	2	2	0
Eaves rail	`MS1`	4	4	4	4	4	0
Eaves rail, extension	`MS3`	0	2	4	6	8	2
Lower ridge	`SK1`	2	2	2	2	2	0
Lower ridge, extension	`SK3`	0	1	2	3	4	1
Upper ridge	`SK2`	2	2	2	2	2	0
Upper ridge, extension	`SK4`	0	1	2	3	4	1
Ridge cap	`Z6`	2	2	2	2	2	0
Corner bracket	`L_55x70`	4	4	4	4	4	0
Anchor bracket	`L_40x90`	6	8	10	12	14	2
Ground anchor		6	8	10	12	14	2
Panel support bracket	`KR2`	8	12	16	20	24	4

What is in the parcels, continued

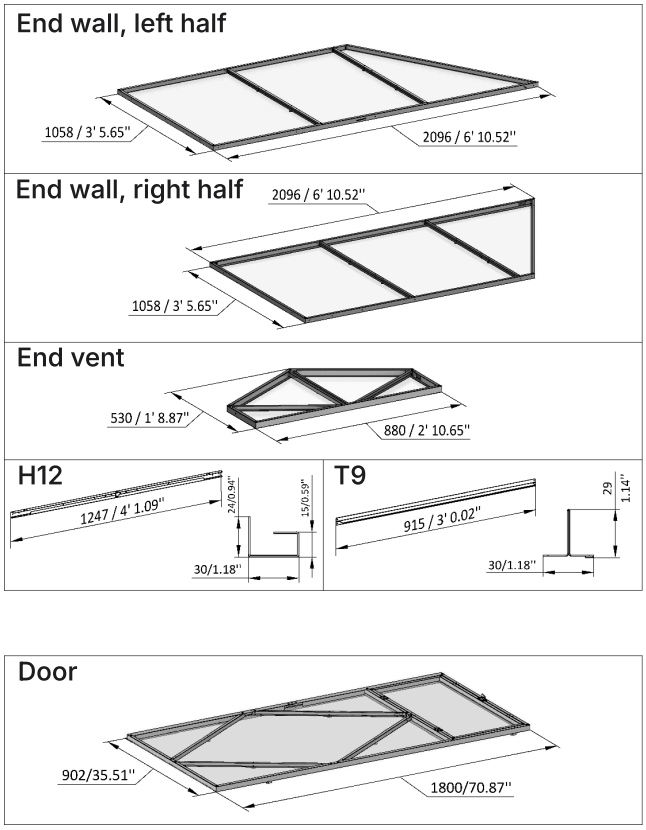
Part	Marked	4.13 m	6.24 m	8.35 m	10.47 m	12.58 m	Each extra 2.11 m
Polycarbonate							
Wall panel 2100 × 1500 mm		4	6	8	10	12	2
Roof panel 2100 × 1800 mm		4	6	8	10	12	2
U-profile, 2100 mm		8	12	16	20	24	4
H-profile, 1500 mm		2	4	6	8	10	2
H-profile, 1800 mm		2	4	6	8	10	2
Anti-dust tape (metres)		33.6	50.4	67.2	84.0	100.8	16.8
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		2	2	2	2	2	0
Screws, bolts and washers							
Screw 4.2 × 19		434	572	710	848	986	138
Screw 4.2 × 25		32	56	80	104	128	24
Bolt M6 × 16		20	32	44	56	68	12
Wing nut M6		20	32	44	56	68	12
Washer 25 × 6.5		202	290	378	466	554	88
Plastic washer 22 × 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.

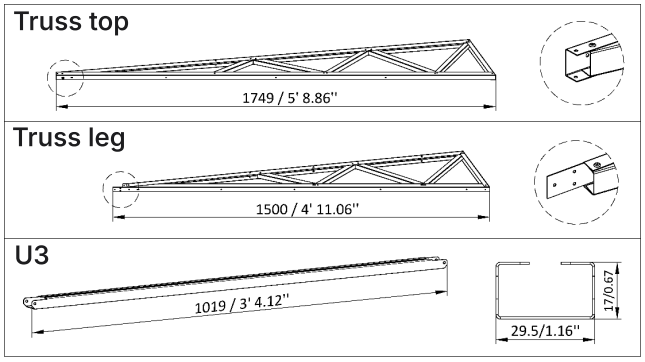


Base frame parts, brackets and ground anchor

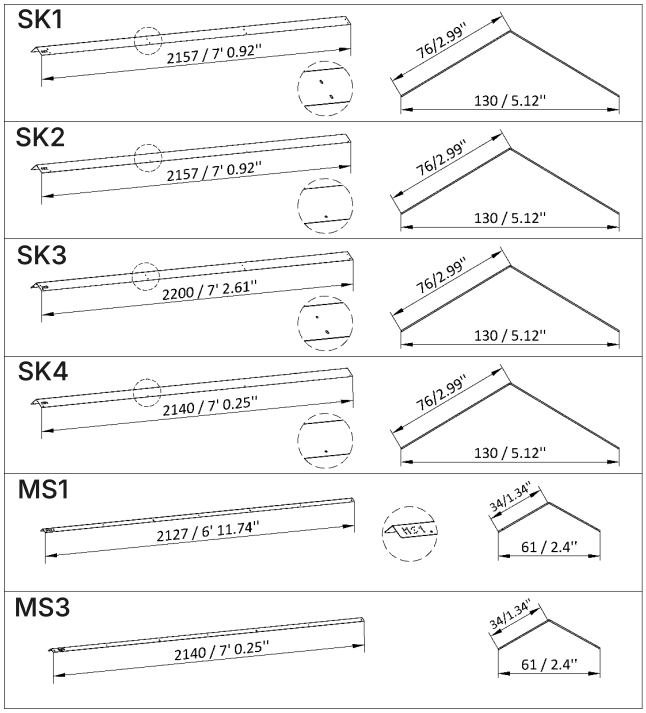


End wall halves, end vent, profiles T9 and H12, door

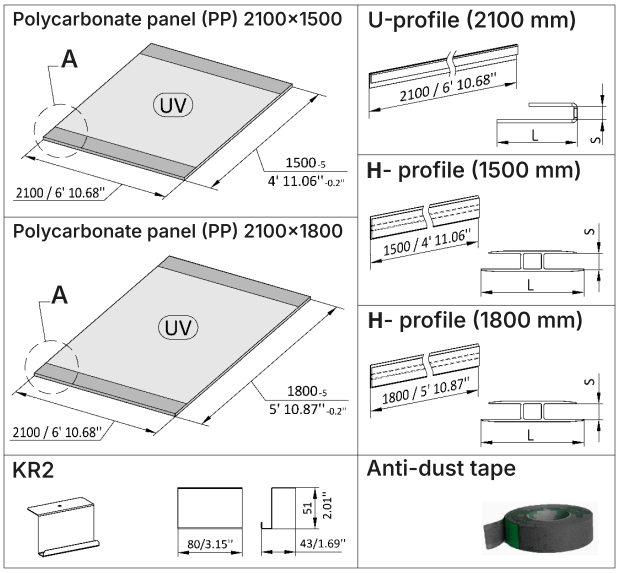
Know your parts, continued



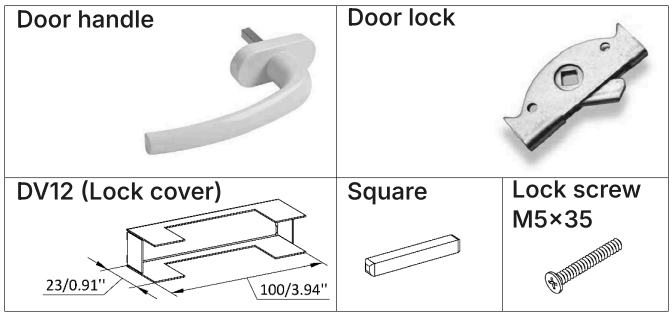
Roof truss, wall truss, connector U3



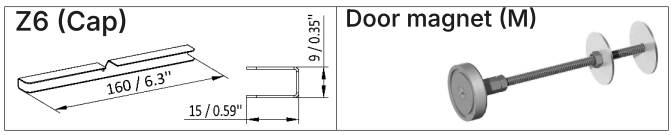
Ridges and eaves rails



Polycarbonate panels, U-profile and H-profiles

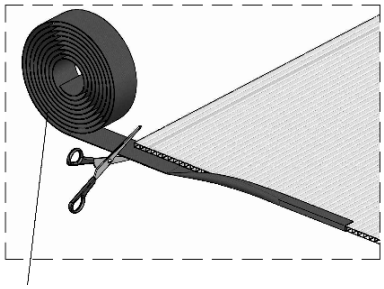


Door handle, lock, lock cover, square spindle, lock screw



Panel support bracket KR2 and door magnet

Know your parts, continued



Anti-dust tape

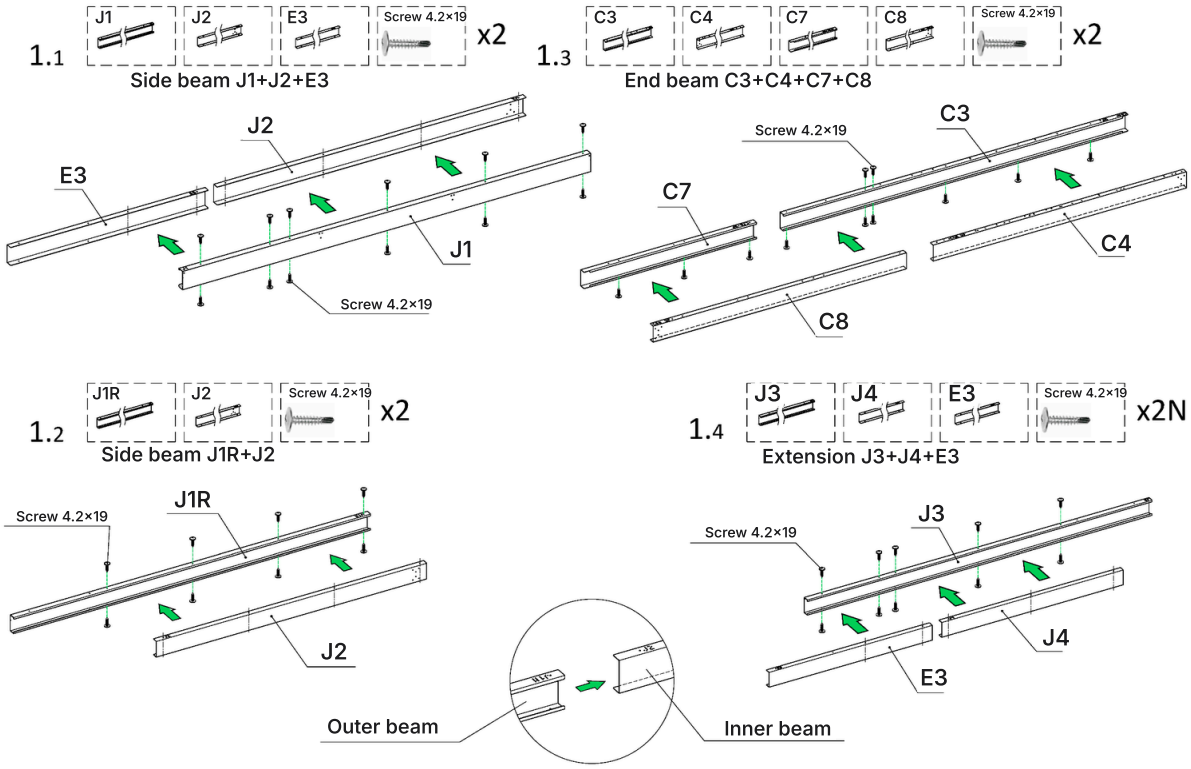


Screws, bolt, wing nut, washers

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 panel.

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

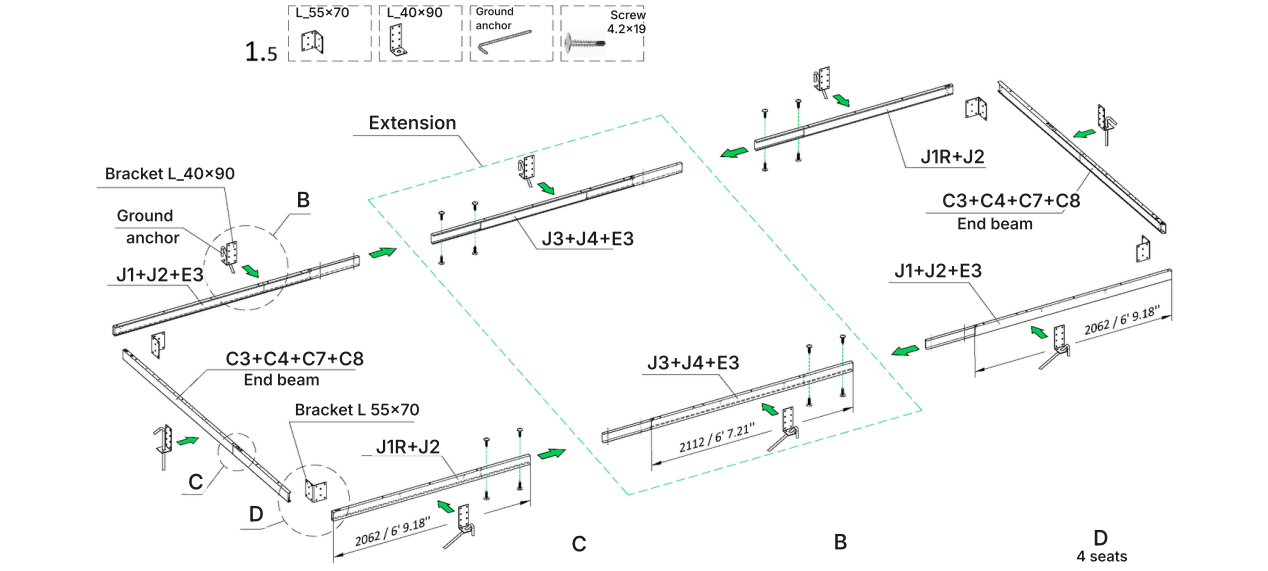
1 Build the base frame

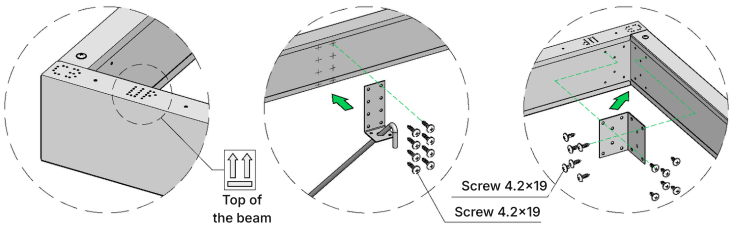


1. On flat ground, put the beams together as labelled in the drawing. Each **side beam** has two halves: `J1` + `J2` + `E3`, and `J1R` + `J2`. Build two of each.
2. For each extension, add `J3` + `J4` + `E3` on each side.
3. Make the two **end beams** from `C3`, `C4`, `C7` and `C8`.
4. Fix every joint with screws 4.2 × 19.

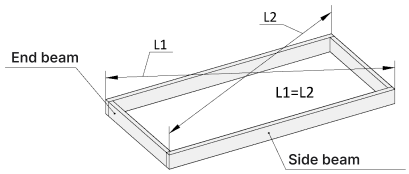
You need	Marked	Base kit	Each extension
End base beam, parts	`C3` `C4` `C7` `C8`	2 each	0
Side base beam, parts	`J1` `J1R`	2 each	0
Side base beam, part	`J2`	4	0
Extension beams	`J3` `J4`	0	2 each
Beam connector	`E3`	2	2

1 Build the base frame, continued





The mark UP is the top of the beam. Corner bracket and anchor bracket

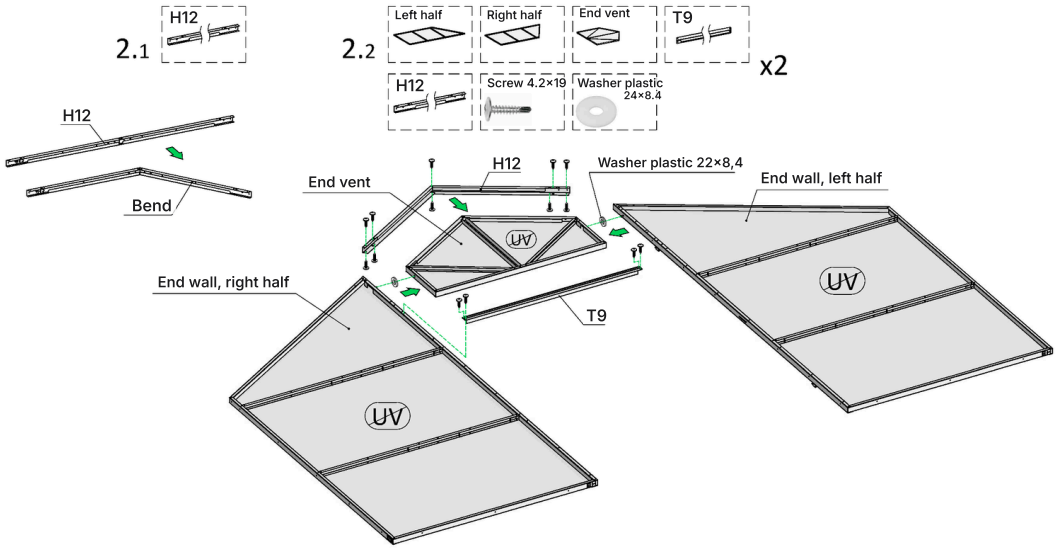


Both diagonals equal: L1 = L2

1. Lay the side beams and the end beams out as a rectangle. The mark **UP** shows the top of each beam.
2. Join the four corners with the **corner brackets** `L_55x70`.
3. Measure both diagonals. The frame is square when **L1 = L2**.
4. Check the frame with a spirit level: it may be out by **2 to 3 mm at most over 3 m**. The polycarbonate only fits well on a level frame.
5. Screw the **anchor brackets** `L_40x90` to the outside of the frame, at the places shown. You drive the anchors in at the very end, in step 8.

You need	Marked	Base kit	Each extension
Corner bracket	`L_55x70`	4	0
Anchor bracket	`L_40x90`	6	2
Ground anchor		6	2
Screw 4.2 × 19		166	44

2 Put the end walls together

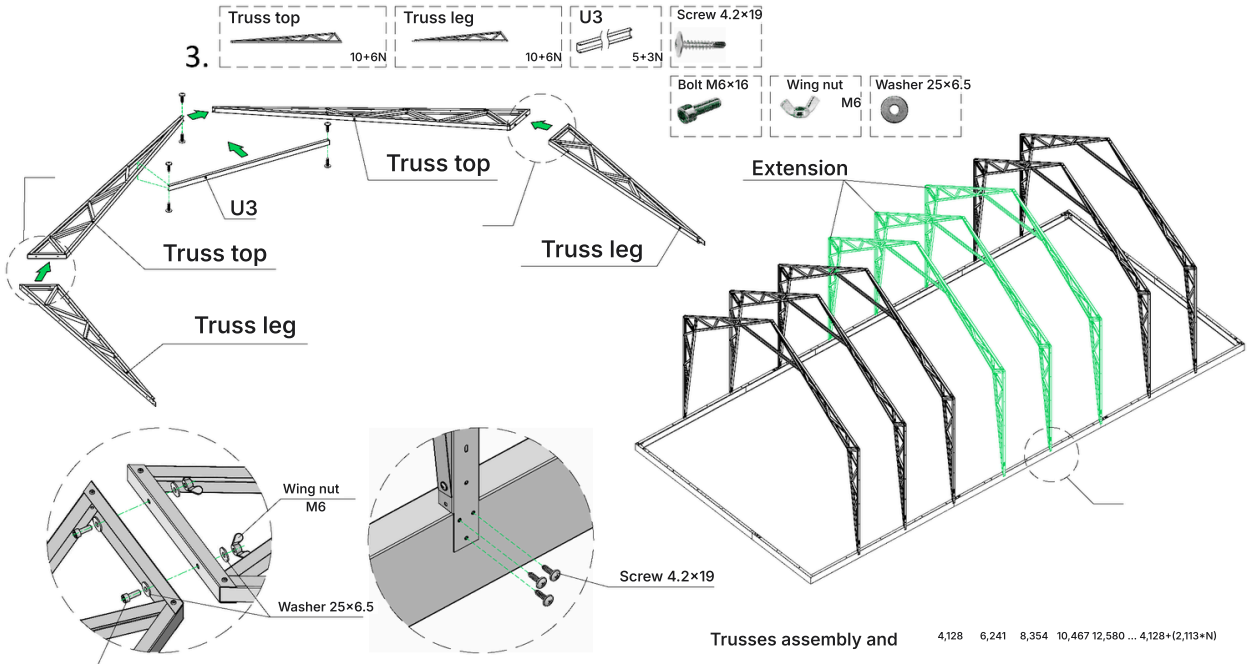


1. Lay the left and right halves of one end wall flat, the side marked **UV** (white film) facing out.
2. Put a plastic washer on each pin of the two halves, then fit the **end vent** between them: the pins go into the holes of the vent.
3. Fit the profiles `T9` and `H12`: line up the holes and screw them to the two halves with screws 4.2 × 19.
4. Check that the end vent swings freely.
5. 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 vent		2	0
Profile	H12	2	0
Profile	T9	2	0
Screw 4.2 × 19		28	0
Plastic washer 22 × 8.4		4	0

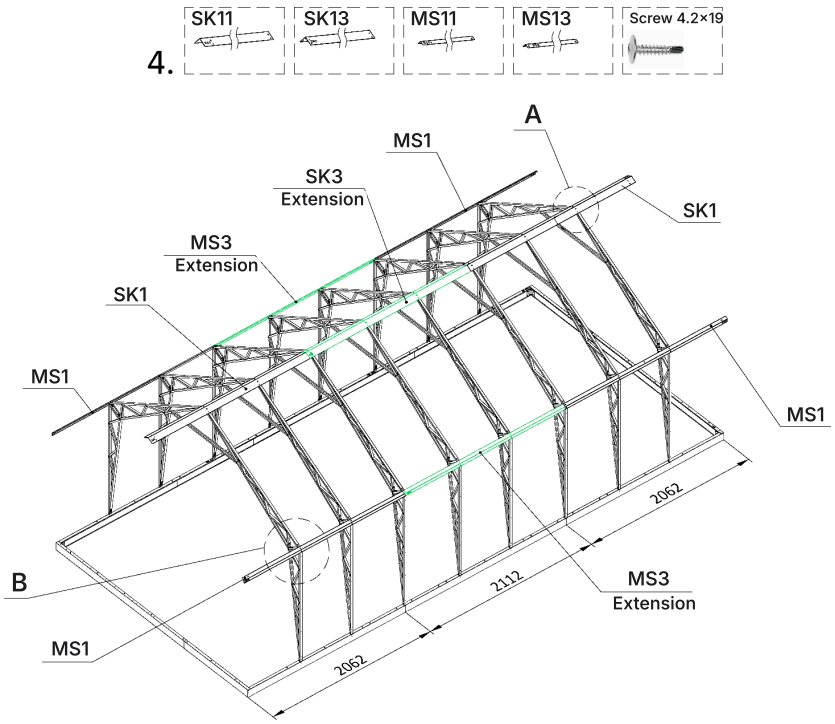
3 Assemble the trusses and stand them up

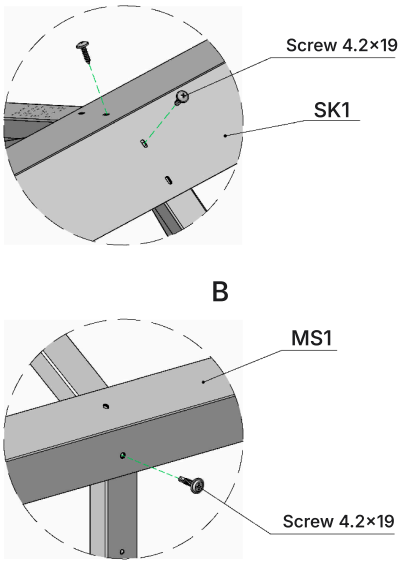


1. Lay the parts of one frame flat: two **roof trusses** and two **wall trusses**.
2. Join each roof truss to its wall truss with bolts M6 × 16, washers 25 × 6.5 and wing nuts (detail A).
3. Join the two halves at the top: put the connector `U3` between the two roof trusses, line up the holes and fix it with screws 4.2 × 19.
4. Stand each frame on the base frame at its mark and screw both feet to the frame with screws 4.2 × 19 (detail B).

You need	Marked	Base kit	Each extension
Roof truss	`Truss top`	10	6
Wall truss	`Truss leg`	10	6
Truss connector	`U3`	5	3
Bolt M6 × 16		20	12
Wing nut M6		20	12
Washer 25 × 6.5		40	24
Screw 4.2 × 19		60	36

4 Fit the ridge and the eaves rails



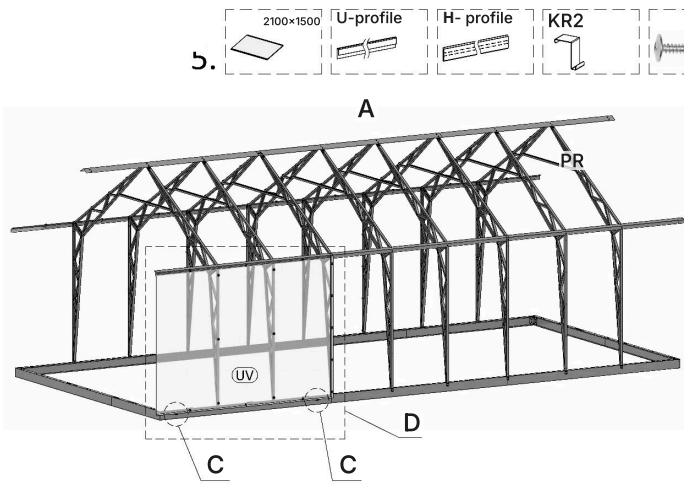


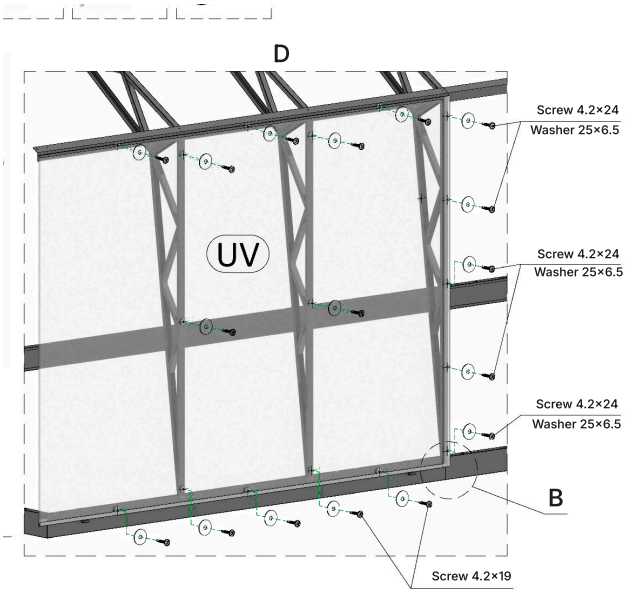
Ridge (top) and eaves rail (bottom) on a truss

1. Fit the **lower ridge** along the top of the trusses: `SK1`, and `SK3` on each extension.
2. Fit the **eaves rails** along the top of the walls: `MS1`, and `MS3` on each extension.
3. Line the slots of the trusses up with the slots of the ridge and of the rails, and fix with screws 4.2 × 19.
4. Check that every truss stands upright, at 90° to the base frame.

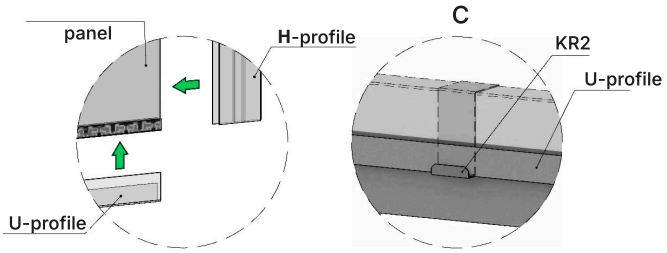
You need	Marked	Base kit	Each extension
Eaves rail	`MS1`	4	0
Eaves rail, extension	`MS3`	0	2
Lower ridge	`SK1`	2	0
Lower ridge, extension	`SK3`	0	1
Screw 4.2 × 19		20	12

5 Fit the wall panels





Where the screws go

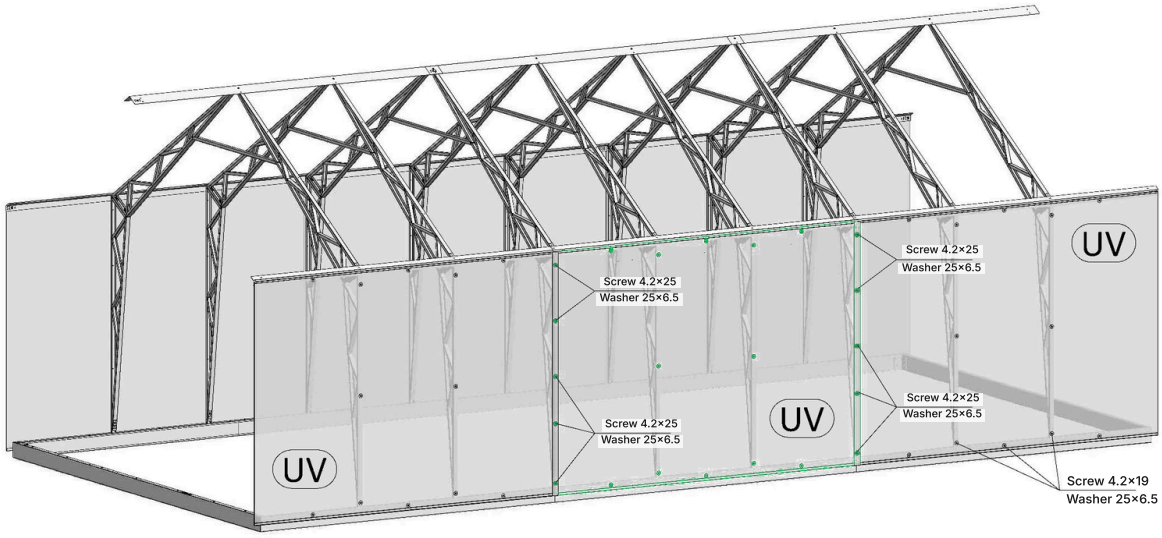


B: U-profile under the panel, H-profile on its right edge. C: bracket KR2

Important Before the first panel, check the diagonals and the level of the base frame once more. Do not force the screws: a screw that is too tight dents the panel and the profiles.

1. Peel the film off both sides of the panel. The side marked **UV** faces outside.
2. Push a **U-profile** on the bottom edge of the panel and an **H-profile** on its right edge (B). A little silicone grease helps the H-profile slide on.
3. Work from one end of the greenhouse, from left to right.
4. Put the brackets `KR2` on the base frame, halfway between two trusses, or between a truss and an end wall (C).
5. Stand the panel on its brackets `KR2` and screw it to the trusses, each screw with a washer 25 × 6.5.

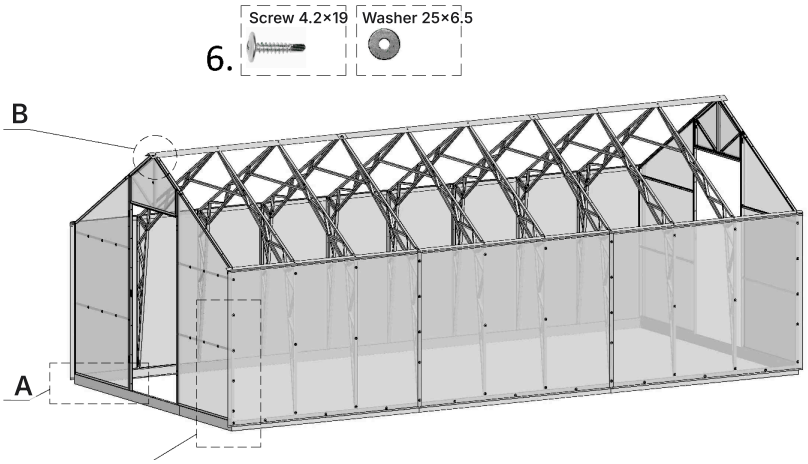
5 Fit the wall panels, continued

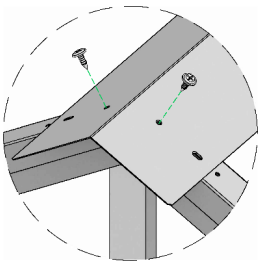


1. Prepare the next panel the same way, U-profile and H-profile fitted first, and slide it into the H-profile of the panel already in place.
2. Fit the remaining wall panels on both sides.

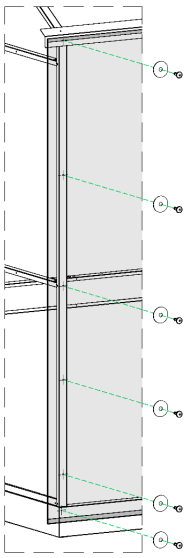
You need	Marked	Base kit	Each extension
Wall panel 2100 × 1500		4	2
U-profile, 2100 mm		4	2
H-profile, 1500 mm		2	2
Panel support bracket	KR2	8	4
Screw 4.2 × 19		48	24
Screw 4.2 × 25		10	10
Washer 25 × 6.5		58	34

6 Fit the end walls





E: ridge to end wall



D: side of the end wall

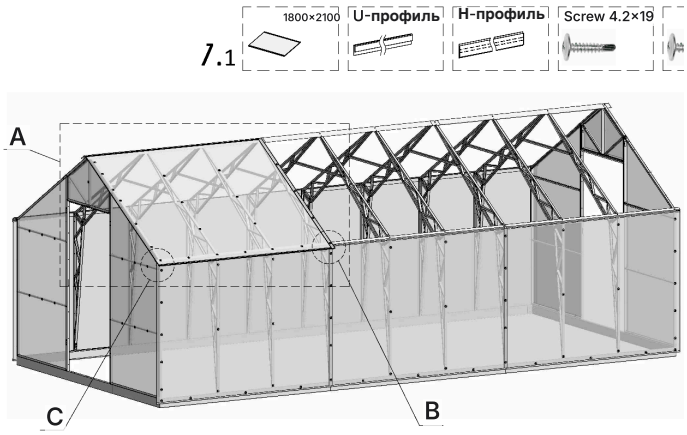


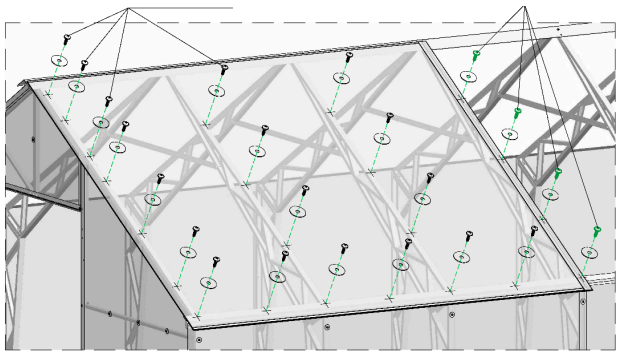
A: end wall on the base frame

You need	Marked	Base kit	Each extension
Screw 4.2 × 19		40	0
Washer 25 × 6.5		24	0

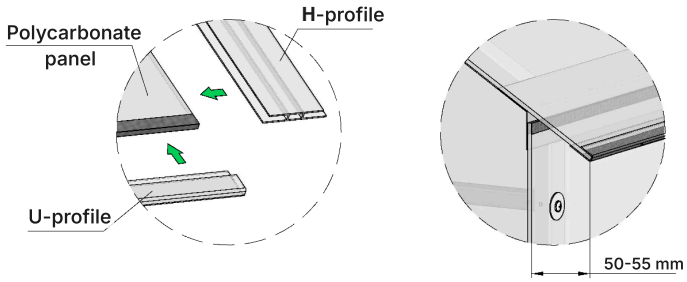
1. Stand each end wall on the end beam of the base frame, flush with the edge of the frame, its holes in line with the holes of the frame. Hold it upright and screw it down (detail A).
2. Line the slots of the ridge `SK1` up with the holes of the end wall and fix the ridge with screws (detail E).
3. Screw the wall panels to the sides of the end wall, each screw with a washer (detail D).

7 Fit the roof panels





A: where the screws go

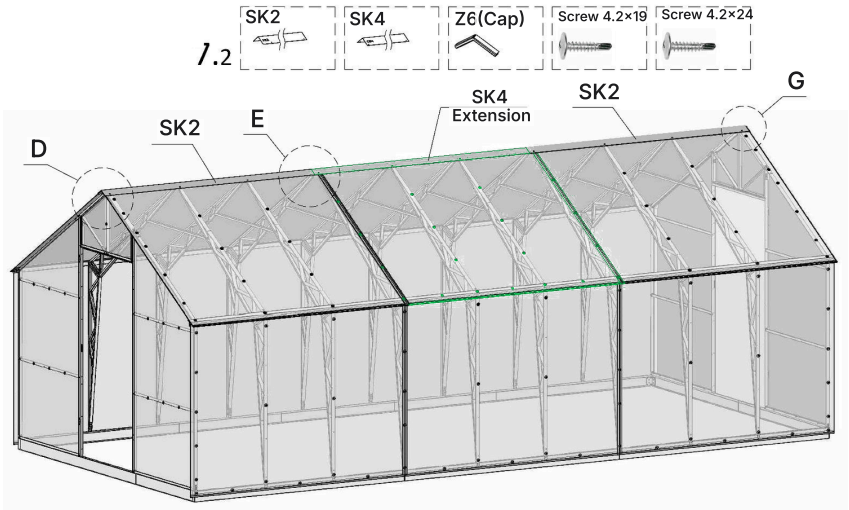


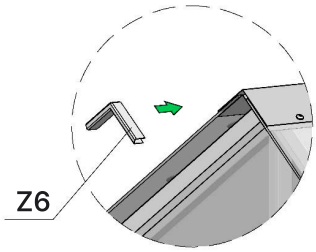
B: U-profile and H-profile. C: 50 to 55 mm from the wall

Important Never step on the roof. Stop each screw when its washer touches the panel.

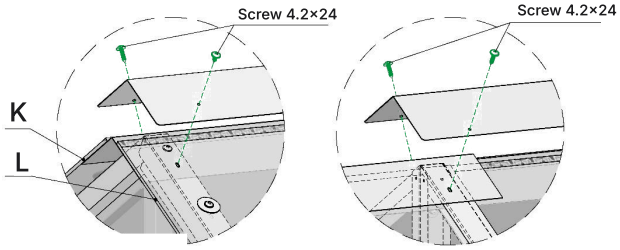
1. Peel the film off both sides of the panel. The side marked **UV** faces outside.
2. Push a **U-profile** on the bottom edge of the panel and an **H-profile** on its right edge (B).
3. Work from one end of the greenhouse, from left to right.
4. Lay the panel over the trusses, its H-profile exactly over a truss, its bottom edge **50 to 55 mm** out from the wall (C).
5. Screw the panel to the roof at the points shown (A), each screw with a washer.

7 Fit the roof panels, continued





G: ridge cap Z6

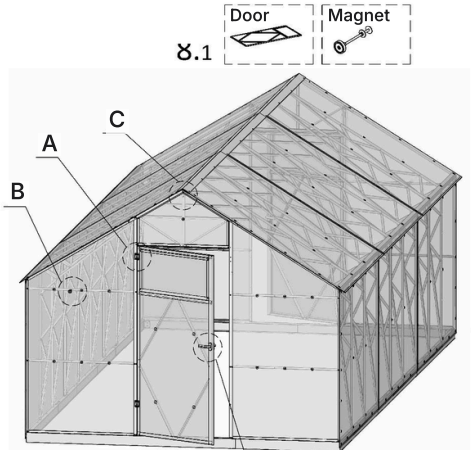


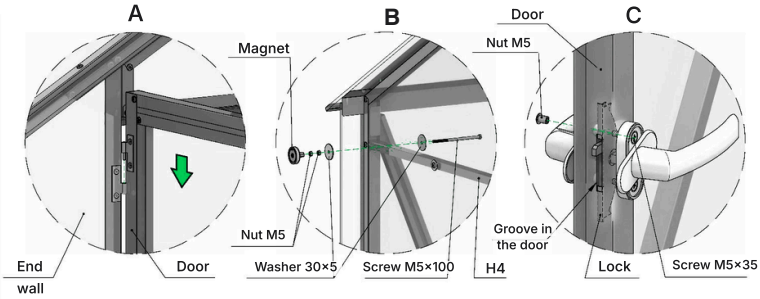
D and E: upper ridge on the lower ridge

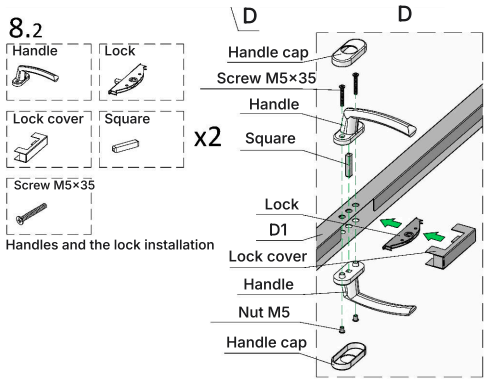
You need	Marked	Base kit	Each extension
Roof panel 2100 × 1800		4	2
U-profile, 2100 mm		4	2
H-profile, 1800 mm		2	2
Upper ridge	SK2	2	0
Upper ridge, extension	SK4	0	1
Ridge cap	Z6	2	0
Screw 4.2 × 19		72	22
Screw 4.2 × 25		22	14
Washer 25 × 6.5		80	30

1. Prepare each next panel the same way, then slide it from the bottom up into the H-profile of the panel already in place.
2. Line it up with the bottom edge of the panel before, 50 to 55 mm out from the wall, and screw it down.
3. The two top panels at each end must line up with each other and with the lower ridge `SK1`. If they do not, check the level and the diagonals of the base frame.
4. Fit the **upper ridge**: `SK2`, and `SK4` on each extension. Line its holes up with the lower ridge and fix it with screws 4.2 × 25 (D and E).
5. Push a cap `Z6` on each end of the ridge and check that it holds (G).

8 Anchor the greenhouse and hang the doors







8.2: 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 (A).
3. **Magnet:** drill a hole in the polycarbonate of the left end wall half, pass the screw through and fix the magnet (B). 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 (D).
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 (C), 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		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.