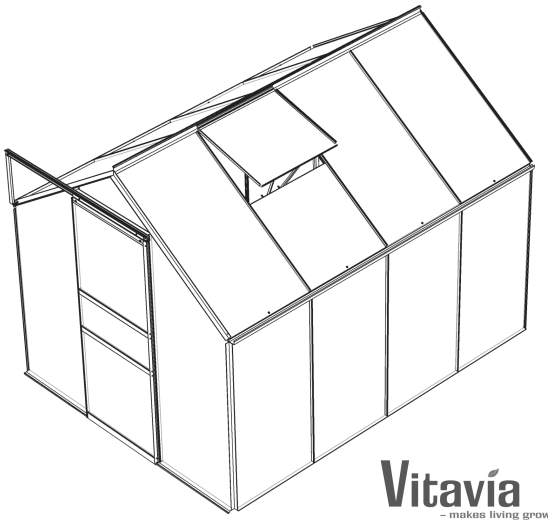
# Greenhouse Stores

ASSEMBLY GUIDE

# Venus 2500

## 6x4 Vitavia greenhouse




**8**
steps, base first

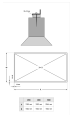
**2**
people needed

**1300 mm × 1922 mm**
base size (A × B)

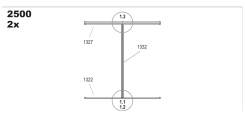
### Toughened glass version

Online version with every size: www.greenhousestores.co.uk/instructions/vitavia-venus-2500-5000/

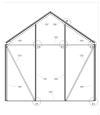
## The build at a glance



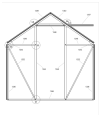
**0**
Prepare your base



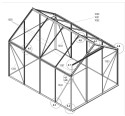

**1**
Build both side frames



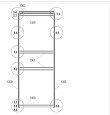
**2**
Build the back gable



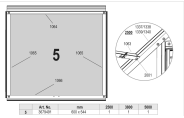
**3**
Build the door gable



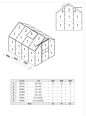
**4**
Join and stand the frame



**5**
Build and hang the door




**6**
Fit the roof vent



**7**
Fit the glazing

Drawings: Vitavia (Vitavia manual 041.01.1306 (Venus 2500, 3800, 5000)). Words and layout: Greenhouse Stores, greenhousestores.co.uk. Keep this guide with your greenhouse.

READ THIS FIRST

# Before you start

## Six golden rules

1. Build frames loose; tighten only when the whole greenhouse stands square on its base.
2. Measure both diagonals; they must be equal.
3. Never overtighten nuts 1002: maximum 3 Nm. Overtightening strips aluminium and cracks glass.
4. Fit extra bolts when instructed; you cannot add them after bar ends are capped.
5. Build with two people.
6. Always anchor your greenhouse. An unanchored greenhouse can blow away.

## Get ready

- [ ] Read the whole guide once before you start.
- [ ] Gather flat/PH2 screwdrivers, 10 mm socket spanner/wrench, 10 mm combination spanner, knife, tape measure, spirit level. Set cordless drill adjustable torque low.
- [ ] Wear gloves, safety glasses, sturdy shoes and a hat. Aluminium edges are sharp. Clear up broken glass straight away.
- [ ] Open one bundle at a time and keep opened bundles apart. Mixed bundles are the main cause of lost-part searches.
- [ ] Check every part against the parts check pages. Contact Greenhouse Stores before you begin if anything is missing.
- [ ] Read single-frame drawings as views from inside the greenhouse. Read double-frame drawings as views from outside.
- [ ] Choose a sunny spot with as much shelter from wind as possible.

Read next: 10 common greenhouse installation mistakes (and how to avoid them)

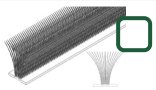
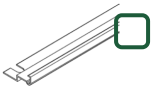
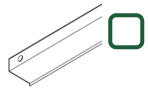
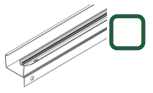
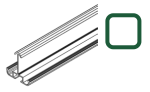
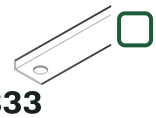
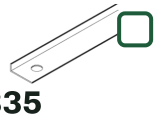
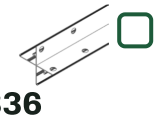
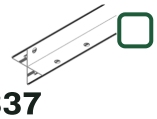
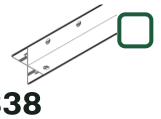
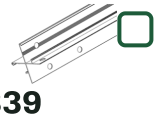
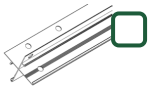
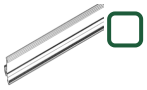
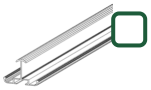
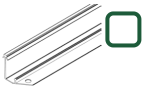
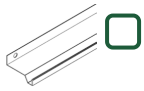
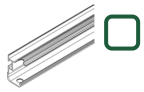
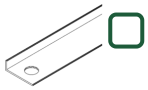
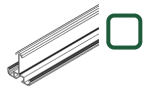
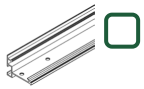
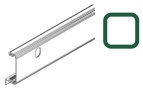
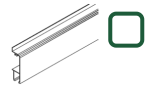
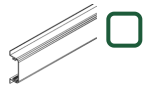
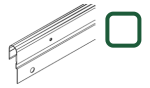
 Single frame: inside view  Double frame: outside view

BEFORE STEP 1

# Parts check

Open one bundle at a time. Tick each part as you find it. The number in green is how many your Venus 2500 should have.

## Bars and profiles

- ☐  **1020** Glazing seal (reel) — 45000 mm — ×1
- ☐  **1021** Door brush seal — 1612 mm — ×2
- ☐  **1050** Ridge bar — 1240 mm — ×1
- ☐  **1063** Vent sill — 635 mm — ×1
- ☐  **1064** Vent top bar — 602 mm — ×1
- ☐  **1065** Vent side bar — 520 mm — ×2
- ☐  **1066** Vent bottom bar — 602 mm — ×1
- ☐  **1067** Window opener — 295 mm — ×1
- ☐  **1322** Sill bar — 1240 mm — ×2
- ☐  **1323** Sill bar — 1862 mm — ×1
- ☐  **1327** Eave bar — 1240 mm — ×2
- ☐  **1332** Side upright — 1214 mm — ×2
- ☐  **1333** Diagonal brace — 1304 mm — ×8
- ☐  **1335** Gable brace — 1854 mm — ×1
- ☐  **1336** Corner bar — 1214 mm — ×4
- ☐  **1337** Gable roof bar — 1156 mm — ×1
- ☐  **1338** Gable roof bar — 1156 mm — ×1
- ☐  **1339** Door gable roof bar — 1156 mm — ×1
- ☐  **1340** Door gable roof bar — 1156 mm — ×1
- ☐  **1341** Gable upright — 1666.5 mm — ×1
- ☐  **1342** Gable upright — 1666.5 mm — ×1
- ☐  **1343** Corner plate — 170 mm — ×4
- ☐  **1344** Door post — 1650 mm — ×1
- ☐  **1345** Door post — 1650 mm — ×1
- ☐  **1346** Door gable bottom bar — 1862 mm — ×1
- ☐  **1347** Door runner bar — 1257 mm — ×1
- ☐  **1348** Door header bar — 628.5 mm — ×1
- ☐  **1349** Door gable bar — 600 mm — ×2
- ☐  **1355** Roof glazing bar — 1132.5 mm — ×2
- ☐  **1356** Roof brace — 255 mm — ×1
- ☐  **1357** Door runner support — 393 mm — ×1
- ☐  **1358** Door side bar — 1614 mm — ×2
- ☐  **1359** Door upper bar — 621 mm — ×1
- ☐  **1360** Door bottom bar — 621 mm — ×1
- ☐  **1361** Door middle bar — 621 mm — ×2
- ☐  **1362** Door top bar — 613 mm — ×1

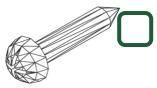
## Fixings and small parts



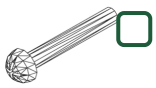
**1001**
Bolt
M6 × 12 **×90**



**1002**
Nut
M6 **×92**



**1003**
Screw
3.5 × 16 **×16**



**1005**
Bolt
M6 × 40 **×1**



**1006**
Screw
3.5 × 6 **×6**



**1007**
Nut
M4 **×2**



**1009**
Washer
Ø8/4 **×2**



**1011**
Glazing spring clip
70 **×148**



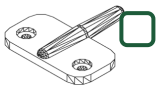
**1012**
Glass retaining clip
11 **×38**



**1014**
Door glider
20 **×2**



**1015**
Door roller
Ø22 **×2**



**1016**
Window fixer
40 **×2**



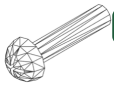
**1017**
End cap
46 **×4**



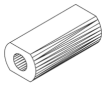
**1018**
End cap
43.7 **×8**



**1019**
Plastic cap
15 **×1**



**1304**
Bolt
M4 × 18 **×2**



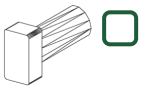
**1310**
Spacer
30.4 **×1**



**1500**
Bolt
M6 × 5 **×2**



**1515**
Nut
M6 **×2**



**2001**
Corner bolt
M6 × 12 **×1**

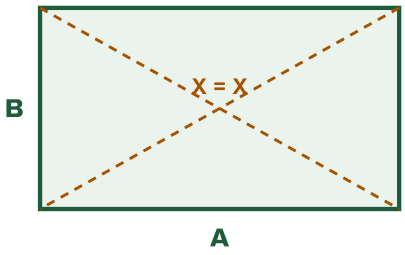


**6060**
Washer
Ø12/6 **×1**

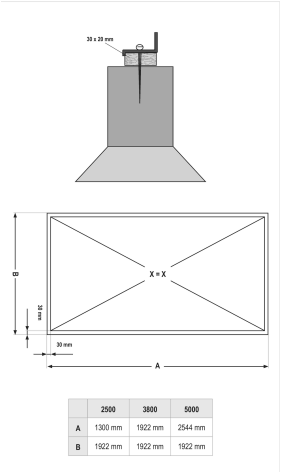
STEP 0

# 0 Prepare your base

Start with an exactly square, level base; the accessory zinc-coated steel base is the easiest option.




| | VENUS 2500 |
|---|---|
| A | 1300 mm |
| B | 1922 mm |




Vitavia drawing 0. The circled numbers match the pictures below.

**INSTALLER TIP**

Use ground spikes or anchor legs only in soil. On concrete or paving, bolt down with suitable fixings; use one method, not both.

**WATCH OUT**

Check the base before you continue. Glass will not fit a frame built on a base that is out of square or level.

**0.1**

Check that your base is exactly square and level. Measure both diagonals, marked X = X; they must match.

**0.2**

Only for self-built stone/concrete foundations: use page sizes A and B; build below frost level. Bolt treated timber (minimum height 18 mm, maximum width 32 mm) between foundation and aluminium frame. Use 50 mm foundation bolts (not supplied).

**0.3**

On very windy, exposed sites, drill through both the greenhouse bottom profile and steel base. Bolt them together.

STEP 1

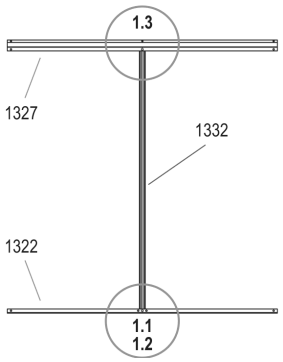
# 1 Build both side frames

Build two identical side frames flat on the ground, with every nut loose.

## YOU NEED

- **1001** ×4
- **1002** ×4
- **1322** ×2
- **1327** ×2
- **1332** ×2

**2500**
**2x**




Vitavia drawing 1. The circled numbers match the pictures below.

### INSTALLER TIP

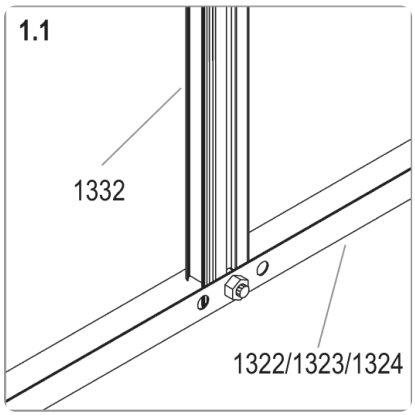
Lay parts on a blanket or lawn to protect the finish. Leave every nut loose so the frames can flex during step 4.

### WATCH OUT

Use the correct number of uprights 1332 per side: 1 for 2500, 2 for 3800, 3 for 5000.

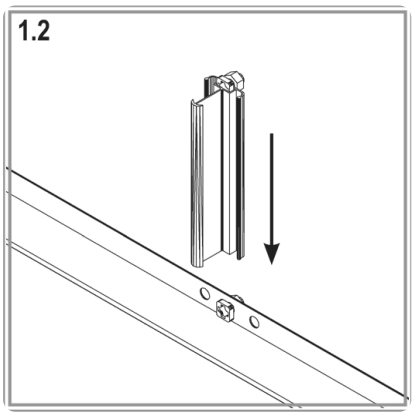
**Watch: Build the sides**

Scan with your phone camera. Vitavia video.



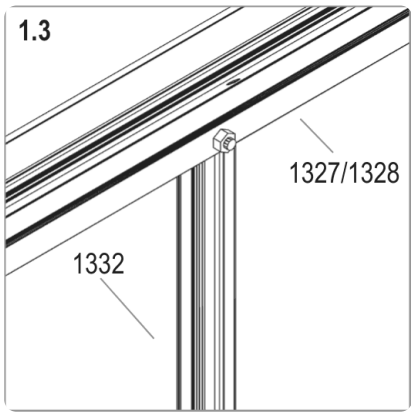

## 1.1

Bolt the bottom of each upright 1332 to your sill bar (1322, 1323 or 1324).




## 1.2 OUTSIDE VIEW

Slide bolts 1001 into the bar channel through its open end, then align them with the holes. Insert them before you close the bar end.




## 1.3

Bolt the top of each upright 1332 to your eave bar (1327, 1328 or 1329).

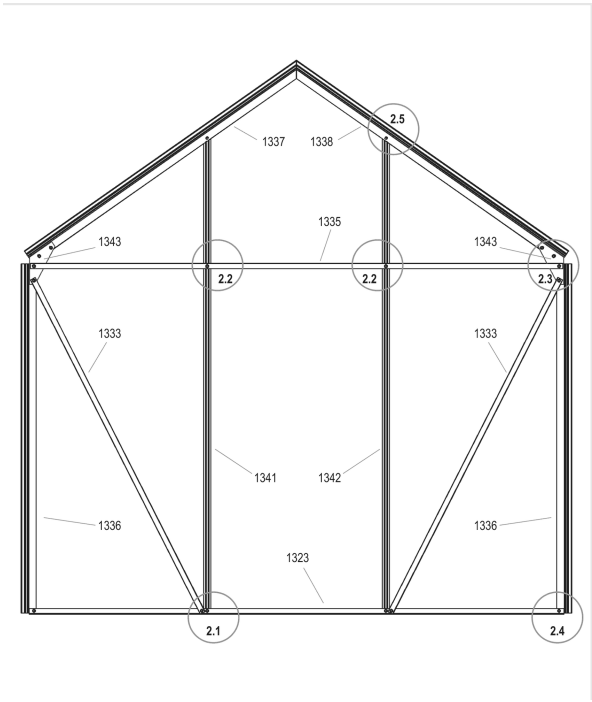
STEP 2

# 2 Build the back gable

Build the plain back gable flat on the ground, and leave the nuts loose.

## YOU NEED

| | |
|---|---|
| **1001** ×18 | **1002** ×18 |
| **1323** ×1 | **1333** ×2 |
| **1335** ×1 | **1336** ×2 |
| **1337** ×1 | **1338** ×1 |
| **1341** ×1 | **1342** ×1 |
| **1343** ×2 | |




Vitavia drawing 2. The circled numbers match the pictures below.

**INSTALLER TIP**

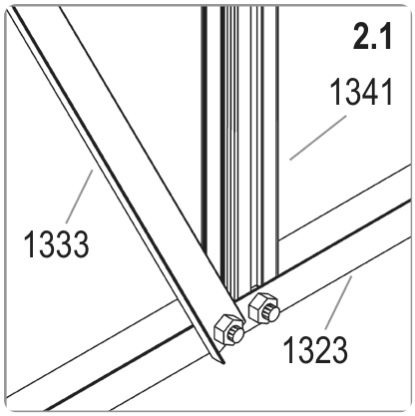
Build from the bottom upwards. Slide each extra bolt into its channel before you fit the bar above it.

**WATCH OUT**

Do not miss the two extra bolts for brace 1335. Insert them before the bar ends are capped.

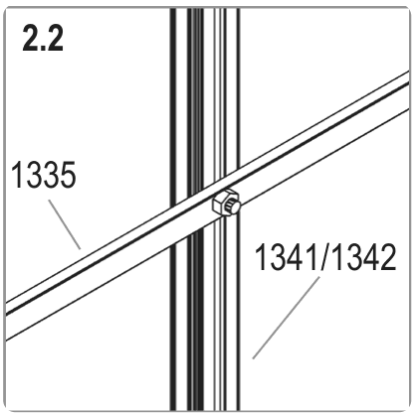
**Watch: Rear gable end**

Scan with your phone camera. Vitavia video.



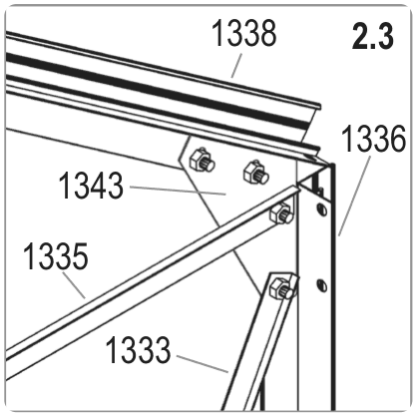

## 2.1

Bolt the bottom of upright 1341 and diagonal brace 1333 to sill bar 1323.



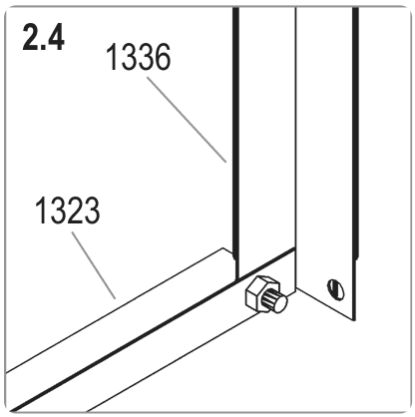

## 2.2

Insert one extra bolt into upright 1341 and one into upright 1342 for horizontal brace 1335. Bolt brace 1335 across both uprights.



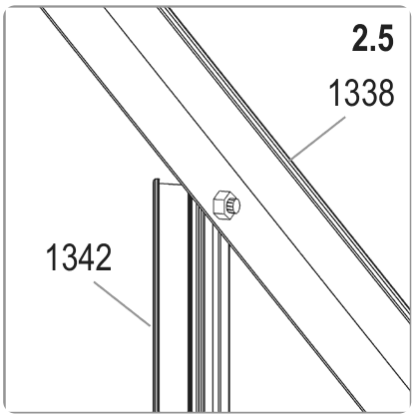

## 2.3

At each top corner, use corner plate 1343 to join corner bar 1336 and roof bar 1338. Include brace 1335 and diagonal brace 1333 in this joint.




## 2.4

At each bottom corner, bolt corner bar 1336 to sill bar 1323.




## 2.5

Bolt the top of upright 1342 to roof bar 1338.

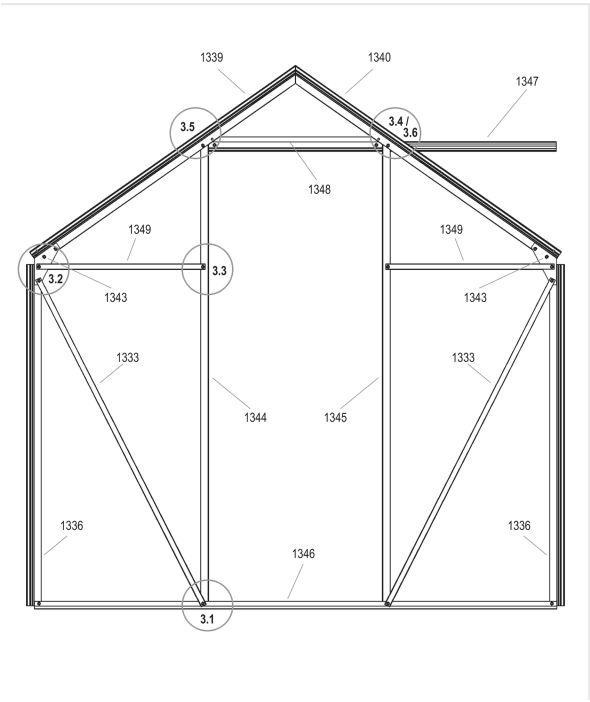
STEP 3

# 3 Build the door gable

Build the front door gable flat on the ground, and leave the nuts loose.

## YOU NEED

| | |
|---|---|
| **1001** ×20 | **1002** ×20 |
| **1333** ×2 | **1336** ×2 |
| **1339** ×1 | **1340** ×1 |
| **1343** ×2 | **1344** ×1 |
| **1345** ×1 | **1346** ×1 |
| **1347** ×1 | **1348** ×1 |
| **1349** ×2 | |




Vitavia drawing 3. The circled numbers match the pictures below.

### INSTALLER TIP

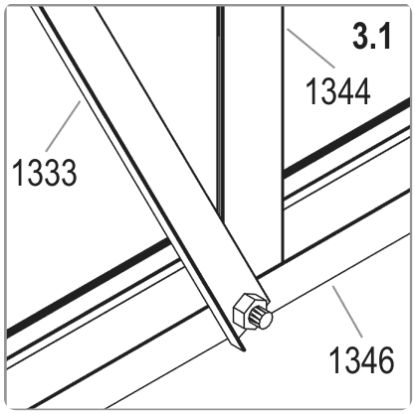
Choose the door direction now, usually towards your path and away from the prevailing wind. Changing it later means taking the gable apart.

### WATCH OUT

If parts will not align, check for bars fitted upside down or back to front. Do not force them.

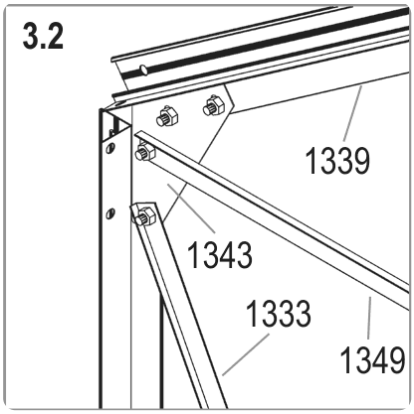
**Watch: Door frame (front gable)**

Scan with your phone camera. Vitavia video.



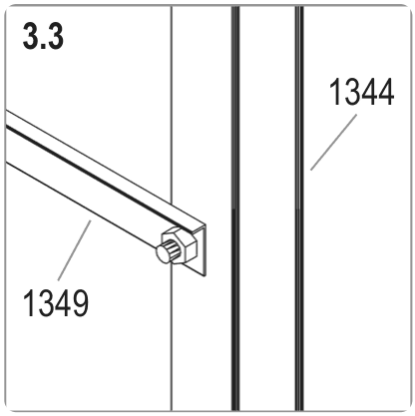

## 3.1

Bolt door post 1344 and diagonal brace 1333 to bottom bar 1346.



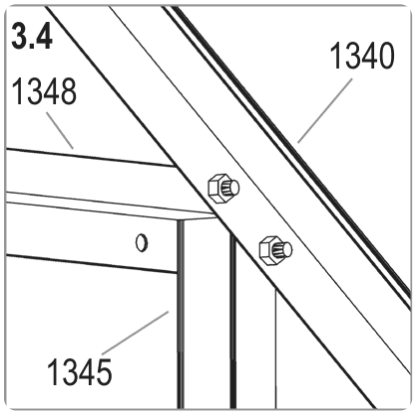

## 3.2

At each top corner, use corner plate 1343 to join roof bar 1339, bar 1349 and diagonal brace 1333.



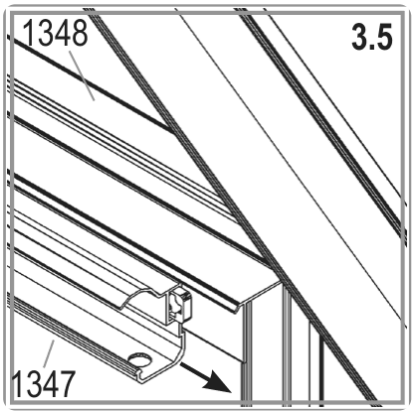

## 3.3

Bolt bar 1349 to door post 1344.



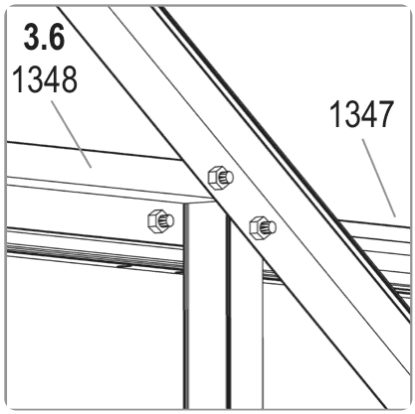

## 3.4

Bolt roof bar 1340 to door header bar 1348 and door post 1345.




## 3.5 OUTSIDE VIEW

Work from outside for this drawing. Slide door runner bar 1347 onto header bar 1348, then join loosely with two nuts and bolts.




## 3.6

Align door runner bar 1347 to the left or right for your chosen door opening direction.

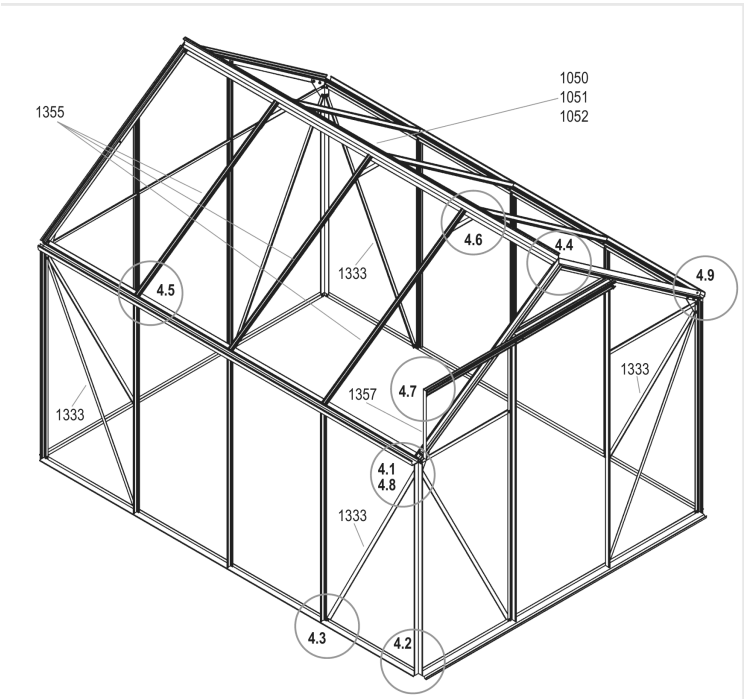
STEP 4

# 4 Join and stand the frame

Work with two people to join the frames and stand the greenhouse up.

## YOU NEED

| | |
|---|---|
| **1001** ×32 | **1002** ×33 |
| **1005** ×1 | **1017** ×4 |
| **1018** ×8 | **1050** ×1 |
| **1310** ×1 | **1333** ×4 |
| **1355** ×2 | **1356** ×1 |
| **1357** ×1 | **6060** ×1 |




Vitavia drawing 4. The circled numbers match the pictures below.

### INSTALLER TIP

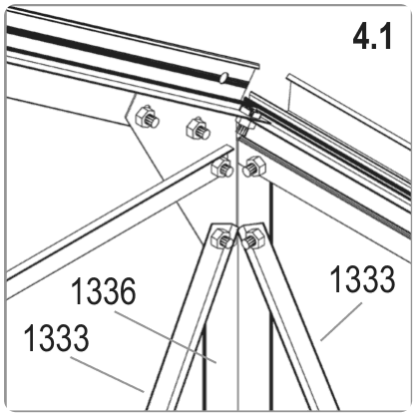
Count extra roof bolts on your drawing before you fit any end cap. The number depends on greenhouse size and vent position.

### WATCH OUT

Do not tighten anything until the greenhouse is on its base and square. Once the glass is in, you cannot adjust it.

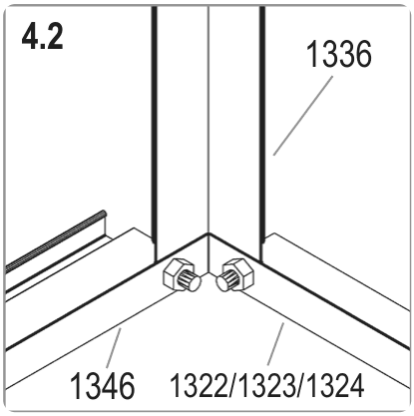
**Watch: Front and roof bars**

Scan with your phone camera. Vitavia video.



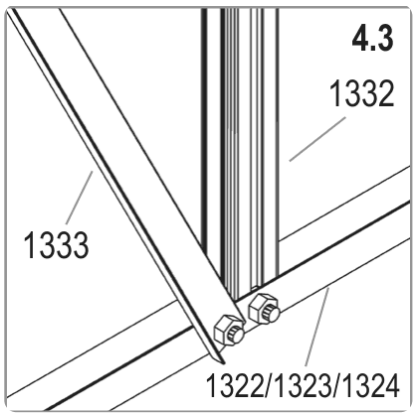

## 4.1

Bolt the side frames to the gable ends at the top corners.



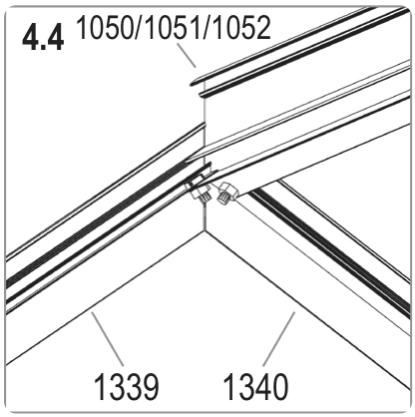

## 4.2

Bolt the side frames and gable ends together at the bottom corners.



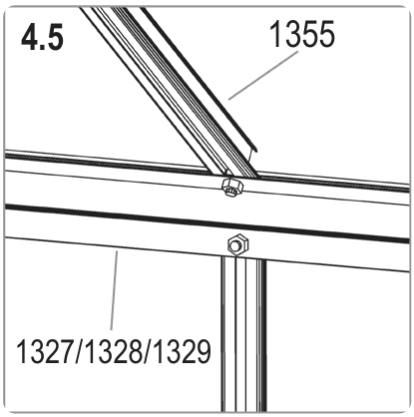

## 4.3

Fit diagonal side brace 1333 at each corner, between the eave bar and sill bar.



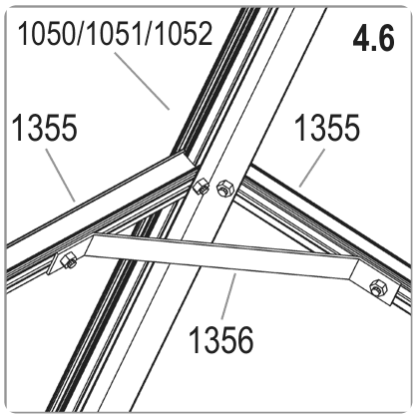

## 4.4

Bolt your ridge bar (1050, 1051 or 1052) to the top of both gable ends.




## 4.5

Bolt roof glazing bars 1355 to the eave bar.

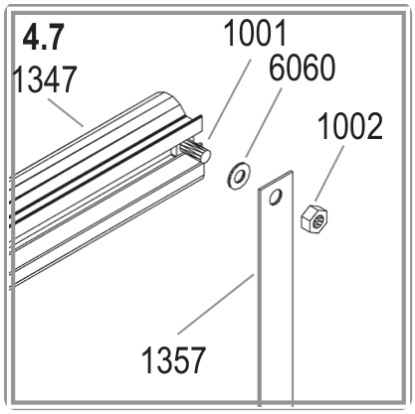



## 4.6

Bolt glazing bars 1355 to ridge; insert an extra bolt into each for roof brace 1356, then fit braces 1356. Insert an extra bolt into each of the 2 glazing bars at the vent position.

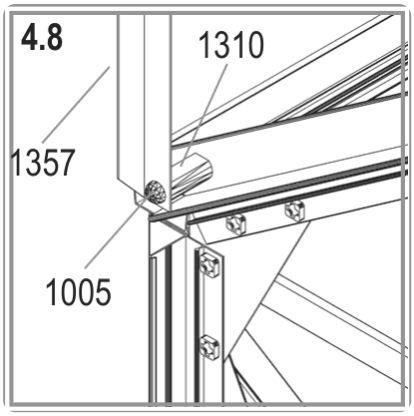
**DO THIS NOW**

Place the greenhouse on its prepared base and bolt it down loosely. Adjust until completely square; measure corner to corner as you did with the base. Only then tighten all bolts, maximum 3 Nm.



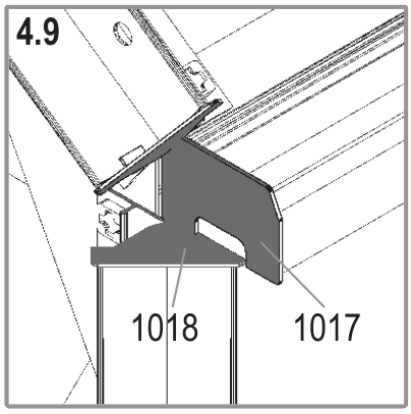

## 4.7 OUTSIDE VIEW

Work from outside. Fit door runner support 1357 to door runner bar 1347 with bolt 1001, washer 6060 and nut 1002.




## 4.8 OUTSIDE VIEW

Work from outside. Fix the other end of support 1357 to the gable with bolt 1005 and spacer 1310.




## 4.9 OUTSIDE VIEW

Press end caps 1017 and 1018 onto the open profile ends.

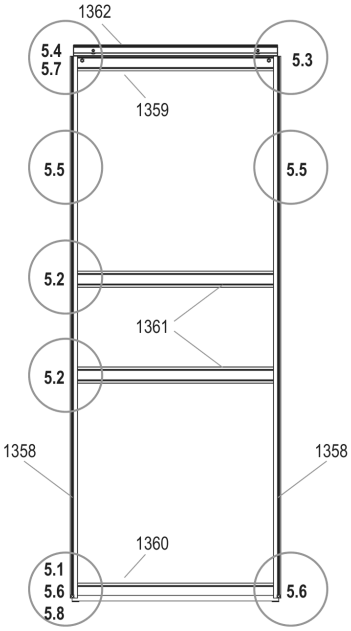
STEP 5

# 5 Build and hang the door

Assemble the sliding door, then hang it in the runner and check it slides freely.

## YOU NEED

| | | | |
|---|---|---|---|
|  | **1001** ×3 |  | **1002** ×3 |
|  | **1003** ×16 |  | **1007** ×2 |
|  | **1009** ×2 |  | **1014** ×2 |
|  | **1015** ×2 |  | **1021** ×2 |
|  | **1304** ×2 |  | **1358** ×2 |
|  | **1359** ×1 |  | **1360** ×1 |
|  | **1361** ×2 |  | **1362** ×1 |
|  | **1500** ×2 |  | **1515** ×2 |



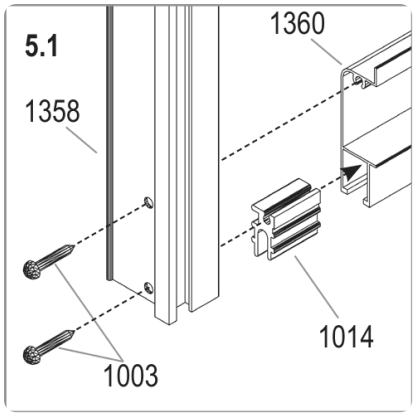

Vitavia drawing 5. The circled numbers match the pictures below.

**INSTALLER TIP**

If the door binds or jumps the track, check that the frame is square. Do not force the door.

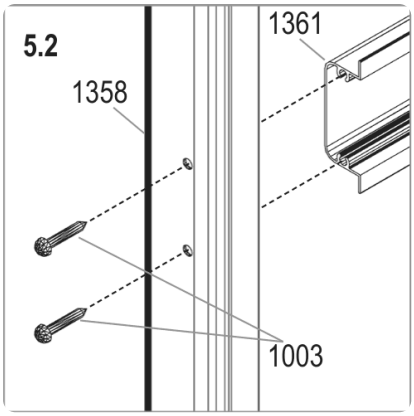
**WATCH OUT**

Never stand the assembled door on gliders 1014. This damages them.



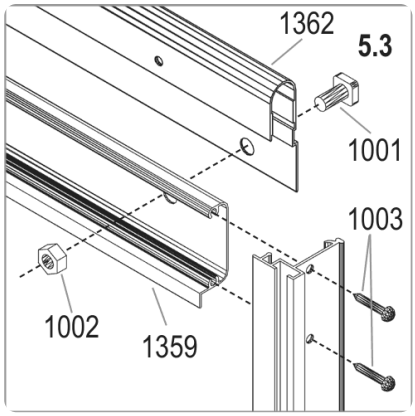

## 5.1

Push door glider 1014 onto each end of bottom door bar 1360. Screw side bars 1358 to it with screws 1003.



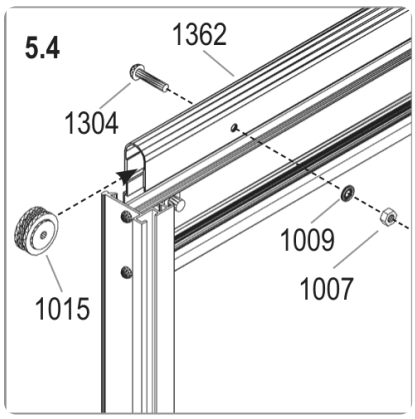

## 5.2

Screw middle bars 1361 between side bars 1358 with screws 1003.



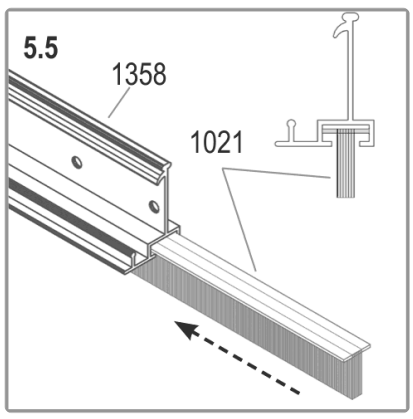

## 5.3

Bolt door top bar 1362 to upper bar 1359 with bolt 1001 and nut 1002. Screw upper bar 1359 to side bars 1358 with screws 1003.



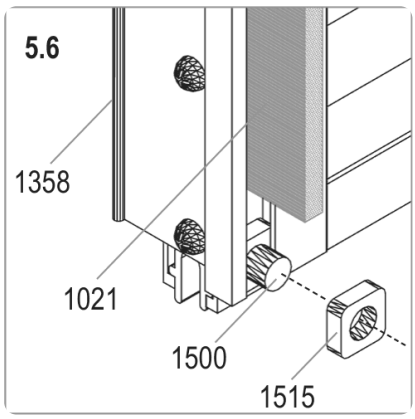

## 5.4

Fix the two door rollers 1015 to top bar 1362 with bolt 1304, washer 1009 and nut 1007.



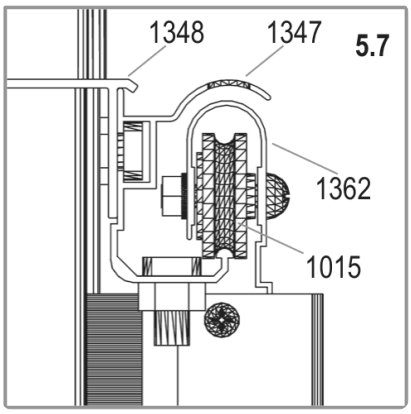

## 5.5 OUTSIDE VIEW

Slide brush seals 1021 into both side bars 1358. Cut the seals to length.



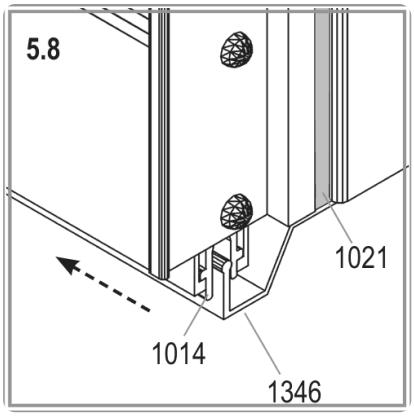

## 5.6

Slide bolt 1500 into the bottom of the brush seal channel, then fix it with nut 1515. This stops the seal sliding out.




## 5.7 OUTSIDE VIEW

Lift the door and hang rollers 1015 in door runner bar 1347.




## 5.8 OUTSIDE VIEW

Check gliders 1014 run in bar 1346's bottom track; fit a nut and bolt into runner bar 1347's end as a stop. Adjust the door until it slides freely.

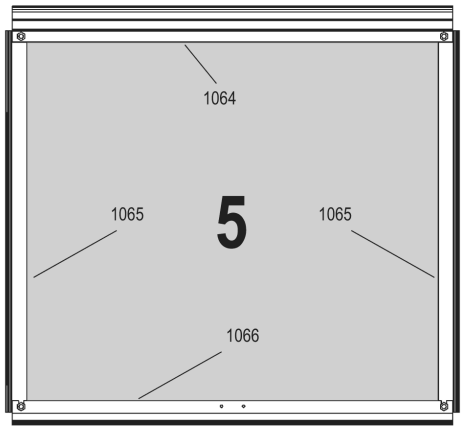
STEP 6

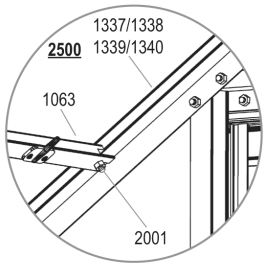
# 6 Fit the roof vent

Build the roof vent to the drawing for your glass thickness, then fit it to the roof.

## YOU NEED

- **1001** ×4
- **1002** ×5
- **1006** ×6
- **1016** ×2
- **1019** ×1
- **1063** ×1
- **1064** ×1
- **1065** ×2
- **1066** ×1
- **1067** ×1
- **2001** ×1




| | Art. No. | mm | 2500 | 3800 | 5000 |
|---|---|---|---|---|---|
| 5 | 3679491 | 600 x 544 | 1 | 1 | 1 |

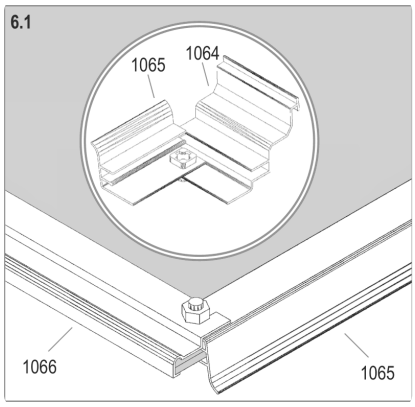
Vitavia drawing 6. The circled numbers match the pictures below.

### INSTALLER TIP

Fit vent sill 1063, the slam bar, flat edge up, grooved lip down towards the pane below. Recheck its position if that pane will not sit snugly.

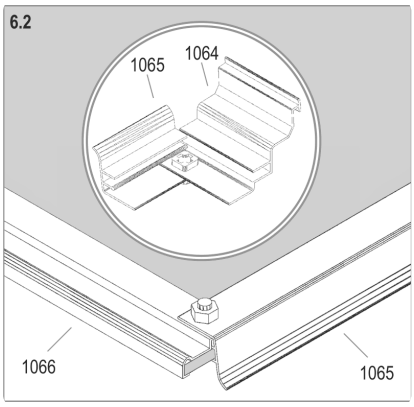
**Watch: Build and fit the window**

Scan with your phone camera. Vitavia video.



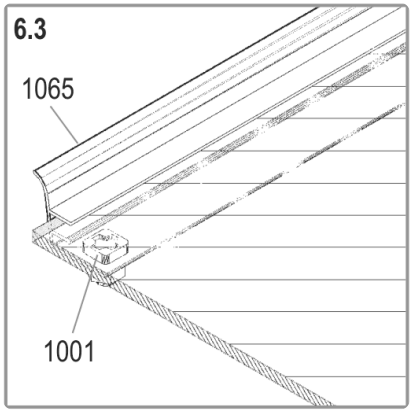

## 6.1

For glass up to 4 mm thick, join vent side bars 1065 and top bar 1064 as this drawing shows.



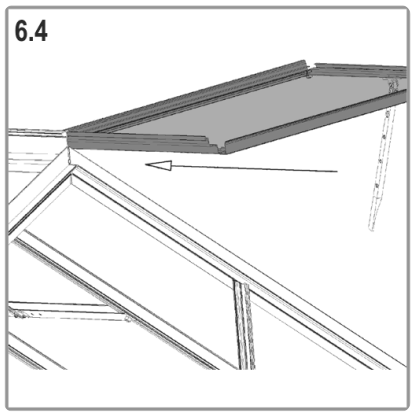

## 6.2

For glass 4 mm or thicker, join vent side bars 1065 and top bar 1064 as this drawing shows instead.



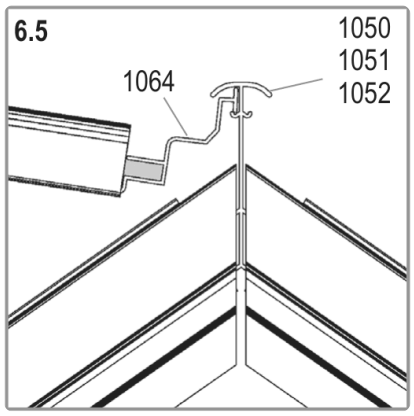

## 6.3 OUTSIDE VIEW

Insert bolts for bottom bar 1066 into prepared holes, then slide glass into side bars 1065's tracks. Fit bottom bar 1066; check the vent is square before you tighten.



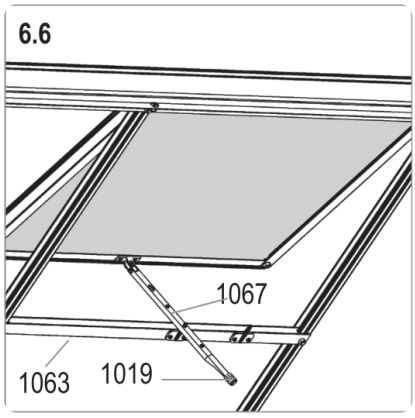

## 6.4 OUTSIDE VIEW

Hook the vent into the ridge bar from one end of the greenhouse.



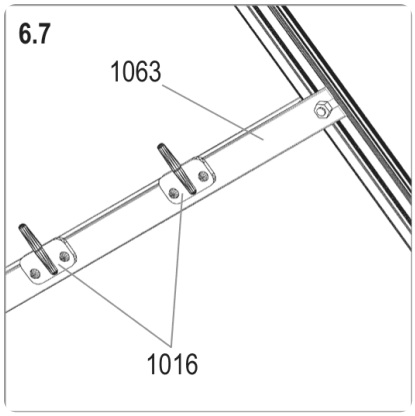

## 6.5 OUTSIDE VIEW

Check that vent top bar 1064 hooks over your ridge bar (1050, 1051 or 1052).



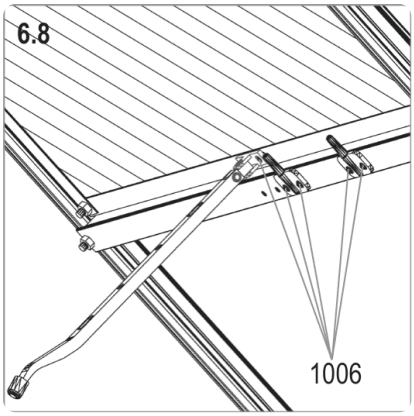

## 6.6

Slide the vent to your chosen position. Push plastic cap 1019 onto the end of window opener 1067.




## 6.7

Fix vent sill 1063 to the extra bolts in the roof glazing bars. For a corner vent, use bolt 2001 instead of 1001 on the corner bar.




## 6.8

Screw window opener 1067 to vent bottom bar 1066 with screws 1006. Screw both window fixers 1016 onto vent sill 1063 with screws 1006.

STEP 7

# 7 Fit the glazing

Fit the glazing seals first, then glaze the roof before the walls.

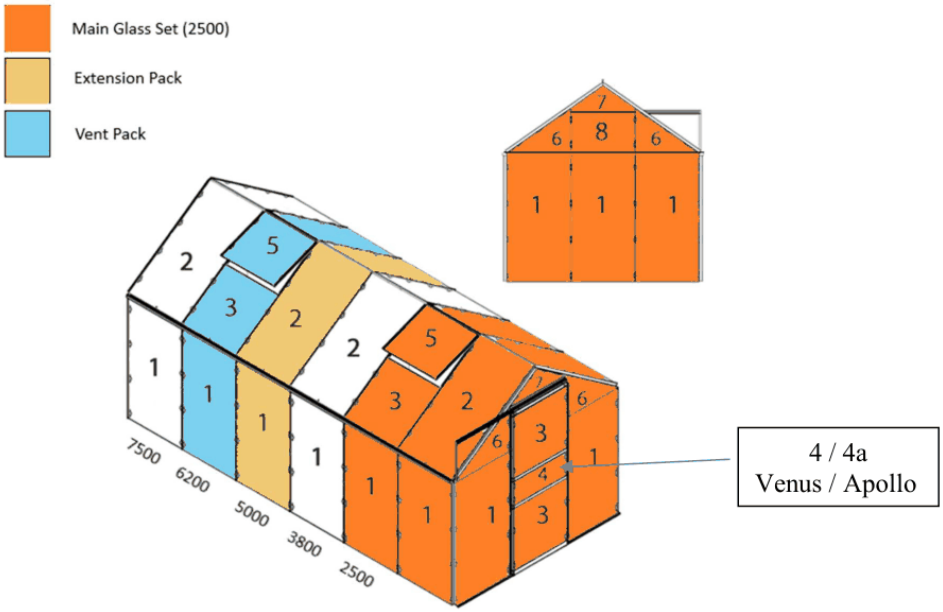
## Your toughened glass

Your toughened glass comes as full panes, listed in the table below. Use the plan below for pane positions, not the drawing above. Join your gable glass with plastic H profiles where glass meets glass, replacing glass retaining clips 1012. Fit each H strip with its longest arm inside and uppermost.

| PANE | SIZE (MM) | VENUS 2500 |
|---|---|---|
| **1** | 610 × 1210 | 9 |
| **2** | 610 × 1144 | 3 |
| **3** | 610 × 610 | 3 |
| **4** | 610 × 228 | 1 |
| **4a** | 610 × 343 | 1 |
| **5** | 600 × 544 | 1 |
| **6** | 610 × 450 × 24 | 4 |
| **7** | 610 × 234 × 20 | 2 |
| **8** | 610 × 439 | 1 |
| | **Total panes** | **25** |
| | Plastic H profiles | 6 |

# Venus/Apollo Glass plan, full pane toughened glass

Full pane toughened glass: Use plastic 'H' profiles for joining the glass in the gable ends.
Use the H profiles where glass meets glass, see arrows below. ***NB*: The 'H' profiles replace glass retaining clips 1012.**




| | Venus/Apollo | 2500 | | Glass Panes per model | | | |
|---|---|---|---|---|---|---|---|
| No. on Diagram | Main Glass Set | Qty | | 3800 | 5000 | 6200 | 7500 |
| 1 | 610 x 1210mm | 9 | | 11 | 13 | 15 | 17 |
| 2 | 610 x 1144mm | 3 | | 5 | 7 | 8 | 10 |
| 3 | 610 x 610mm | 3 | | 3 | 3 | 4 | 4 |
| 4 | 610 x 228mm | 1 | | 1 | 1 | 1 | 1 |
| 4a | 610 x 343mm | 1 | | 1 | 1 | 1 | 1 |
| 5 | 600 x 544mm | 1 | | 1 | 1 | 2 | 2 |
| 6 | 610 x 450 x 24mm | 4 | | 4 | 4 | 4 | 4 |
| 7 | 610 x 234 x 20mm | 2 | | 2 | 2 | 2 | 2 |
| 8 | 610 x 439mm | 1 | | 1 | 1 | 1 | 1 |
| | Totals: | 25 | | 29 | 33 | 38 | 42 |
| | Plastic 'H' Profiles: | 6 | | 6 | 6 | 6 | 6 |
| | | | | | | | |
| | Extension Pack | Qty | | No. of Extension Packs Required | | | |
| 1 | 610 x 1210mm | 2 | | 3800 | 5000 | 6200 | 7500 |
| 2 | 610 x 1144mm | 2 | | 1 | 2 | 2 | 3 |
| | | | | | | | |
| | Vent Pack | Qty | | | | | |
| 1 | 610 x 1210mm | 2 | | No. of Vent Packs Required | | | |
| 2 | 610 x 1144mm | 1 | | 3800 | 5000 | 6200 | 7500 |
| 3 | 610 x 610mm | 1 | | 0 | 0 | 1 | 1 |
| 5 | 600 x 544mm | 1 | | | | | |
| | | | | | | | |
| Additional infill pane [610 X 755mm] **only** if Louvre Window Ordered | | | | | | | |

Vitavia's toughened glass plan. Pane numbers match the table.

## YOU NEED

| | |
|---|---|
| **1011** ×144 | **1020** ×1 |

**INSTALLER TIP**

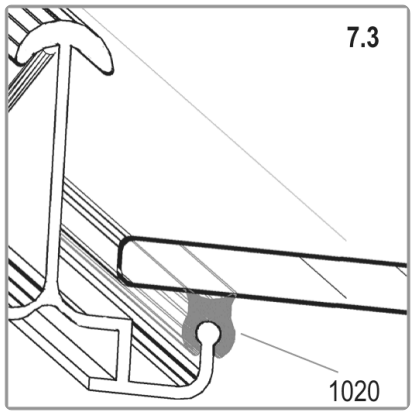
We recommend a hot soapy water soak for the whole seal reel first; it softens and presses on more easily. Glaze the roof before the walls to avoid leaning over fitted side glass.

**WATCH OUT**

Never force a pane into place. If it will not seat, correct the frame's squareness first; forcing glass cracks it.

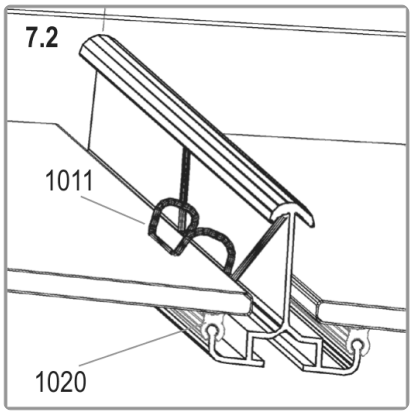
**Watch: Fitting the glazing rubber**

Scan with your phone camera. Vitavia video.




### 7.3 OUTSIDE VIEW

Press rubber glazing seal 1020 onto the aluminium profiles. Cut it to length.




### 7.2 OUTSIDE VIEW

Start the roof glazing at the eave. Fix the first pane with glazing spring clips 1011.

**DO THIS NOW**

On the sides, start from the bottom and work up. If you chose polycarbonate sheets instead of glass, follow the instructions packed with the sheets.

LAST JOBS

# Finish and look after it

## Finish

- [ ] Anchor your greenhouse. This is not optional.
- [ ] Seal the edges with neutral silicone if you wish. Silicone is not supplied.
- [ ] Stick the warning label inside the greenhouse.
- [ ] Stick the model label onto door top bar 1362. You need it to order spare parts.
- [ ] Keep this guide somewhere safe.

## Looking after it

- [ ] Shut the door and vent in high winds.
- [ ] Clear the roof or support it in heavy snow. Heat the greenhouse in winter.
- [ ] Wash occasionally with a mild detergent that does not attack aluminium or the glazing clips.
- [ ] Keep the door tracks clean to prevent grit build-up.
- [ ] Add the greenhouse to your home insurance. Check local building rules about its position.

Drawings reproduced from the Vitavia assembly instructions (Vitavia manual 041.01.1306 (Venus 2500, 3800, 5000)). Greenhouse Stores, greenhousestores.co.uk.