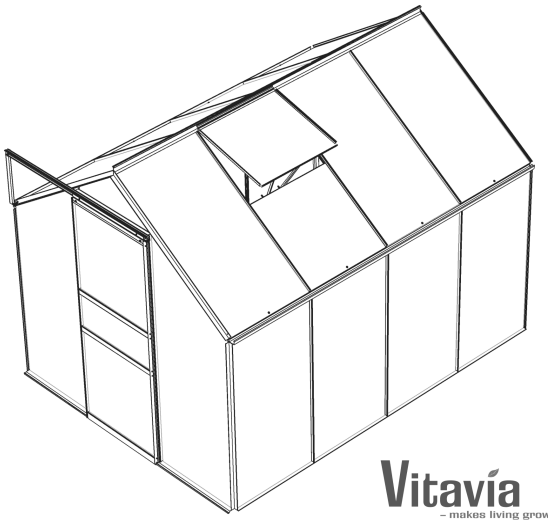
Greenhouse Stores

ASSEMBLY GUIDE

Venus 5000

8x6 Vitavia greenhouse



8
steps, base first

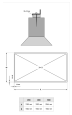
2
people needed

2544 mm × 1922 mm
base size (A × B)

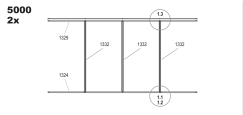
Toughened glass version

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

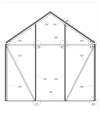
The build at a glance



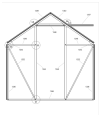
0
Prepare your base



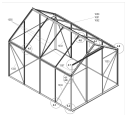
1
Build both side frames



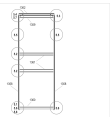
2
Build the back gable



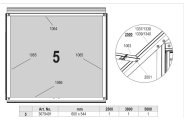
3
Build the door gable



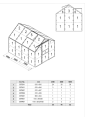
4
Join and stand the frame



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)

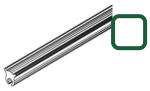
 Single frame: inside view  Double frame: outside view

BEFORE STEP 1

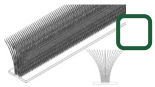
Parts check

Open one bundle at a time. Tick each part as you find it. The number in green is how many your Venus 5000 should have.

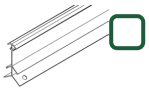
Bars and profiles



1020
Glazing seal (reel)
67000 mm **×1**



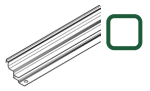
1021
Door brush seal
1612 mm **×2**



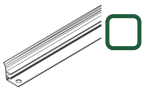
1052
Ridge bar
2484 mm **×1**



1063
Vent sill
635 mm **×1**



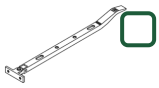
1064
Vent top bar
602 mm **×1**



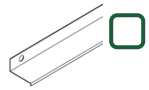
1065
Vent side bar
520 mm **×2**



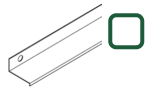
1066
Vent bottom bar
602 mm **×1**



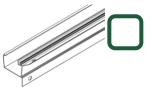
1067
Window opener
295 mm **×1**



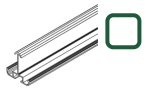
1323
Sill bar
1862 mm **×1**



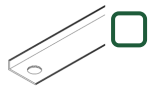
1324
Sill bar
2484 mm **×2**



1329
Eave bar
2484 mm **×2**



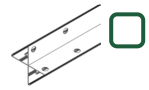
1332
Side upright
1214 mm **×6**



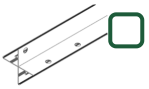
1333
Diagonal brace
1304 mm **×8**



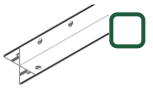
1335
Gable brace
1854 mm **×1**



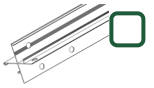
1336
Corner bar
1214 mm **×4**



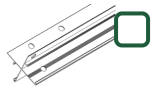
1337
Gable roof bar
1156 mm **×1**



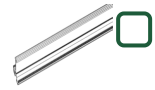
1338
Gable roof bar
1156 mm **×1**



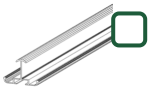
1339
Door gable roof bar
1156 mm **×1**



1340
Door gable roof bar
1156 mm **×1**



1341
Gable upright
1666.5 mm **×1**



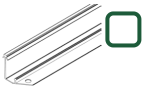
1342
Gable upright
1666.5 mm **×1**



1343
Corner plate
170 mm **×4**



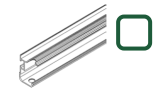
1344
Door post
1650 mm **×1**



1345
Door post
1650 mm **×1**



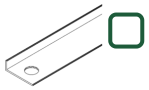
1346
Door gable bottom bar
1862 mm **×1**



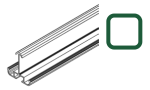
1347
Door runner bar
1257 mm **×1**



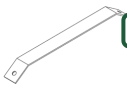
1348
Door header bar
628.5 mm **×1**



1349
Door gable bar
600 mm **×2**



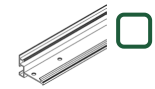
1355
Roof glazing bar
1132.5 mm **×6**



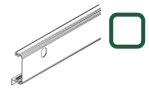
1356
Roof brace
255 mm **×3**



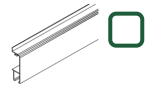
1357
Door runner support
393 mm **×1**



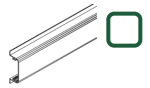
1358
Door side bar
1614 mm **×2**



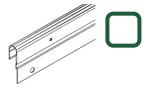
1359
Door upper bar
621 mm **×1**



1360
Door bottom bar
621 mm **×1**



1361
Door middle bar
621 mm **×2**



1362
Door top bar
613 mm **×1**

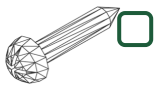
Fixings and small parts



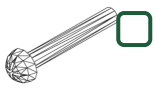
1001
Bolt
M6 × 12 **×112**



1002
Nut
M6 **×113**



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 **×212**



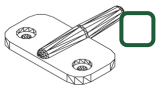
1012
Glass retaining clip
11 **×52**



1014
Door glider
20 **×2**



1015
Door roller
Ø22 **×2**



1016
Window fixer
40 **×2**



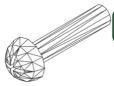
1017
End cap
46 **×4**



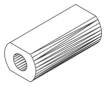
1018
End cap
43.7 **×8**



1019
Plastic cap
15 **×1**



1304
Bolt
M4 × 18 **×2**



1310
Spacer
30.4 **×1**



1500
Bolt
M6 × 5 **×2**



1515
Nut
M6 **×2**

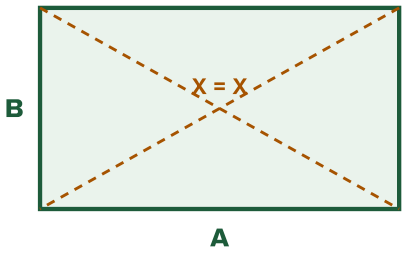


6060
Washer
Ø12/6 **×1**

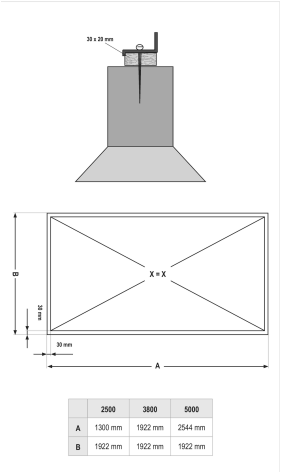
STEP 0

0 Prepare your base

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



	VENUS 5000
A	2544 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

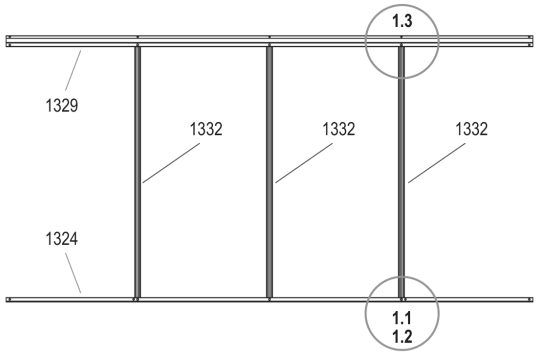
1 Build both side frames

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

YOU NEED

- **1001** ×12
- **1002** ×12
- **1324** ×2
- **1329** ×2
- **1332** ×6

5000
2x



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

INSTALLER TIP

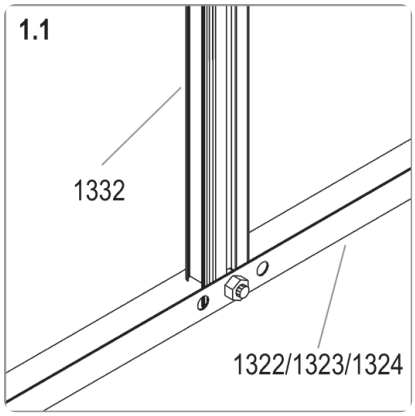
Lay parts on a blanket or lawn to protect the finish. Leave every nut loose so the frames can flex during step 4.

WATCH OUT

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

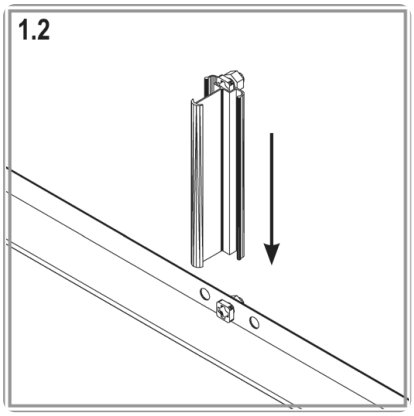
Watch: Build the sides

Scan with your phone camera. Vitavia video.



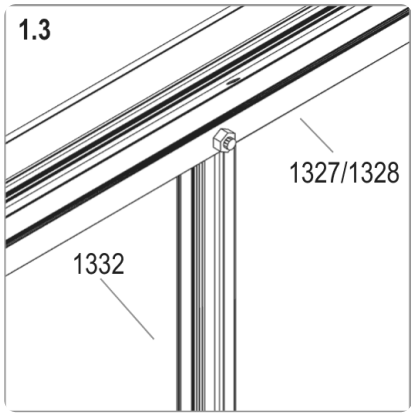
1.1

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).

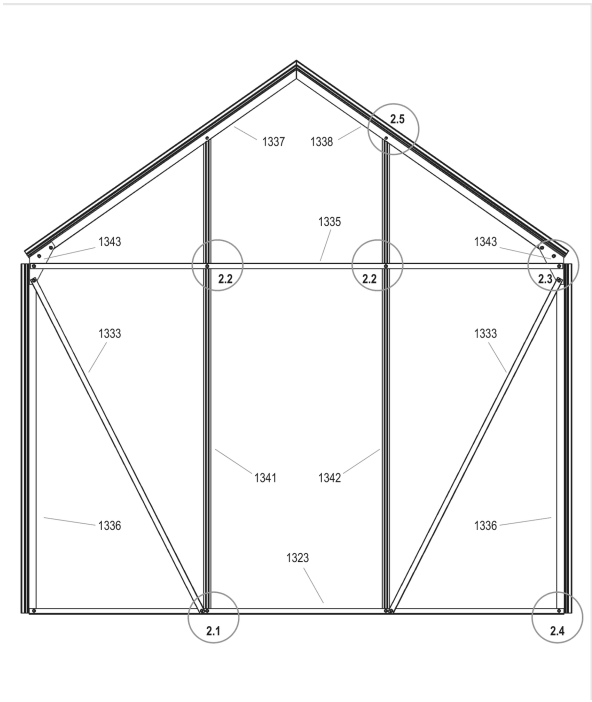
STEP 2

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

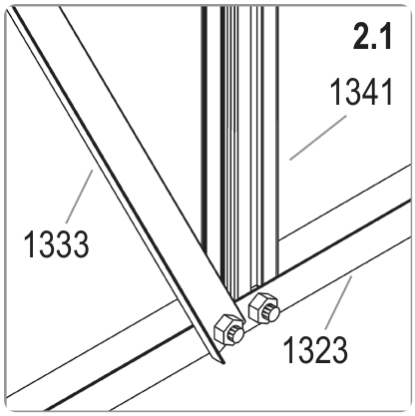
Build from the bottom upwards. Slide each extra bolt into its channel before you fit the bar above it.

WATCH OUT

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

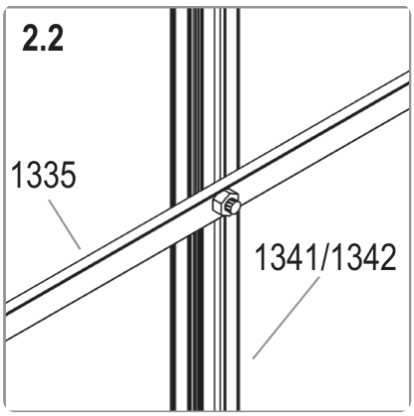
Watch: Rear gable end

Scan with your phone camera. Vitavia video.



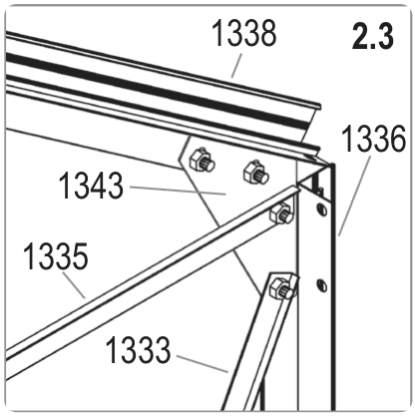
2.1

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



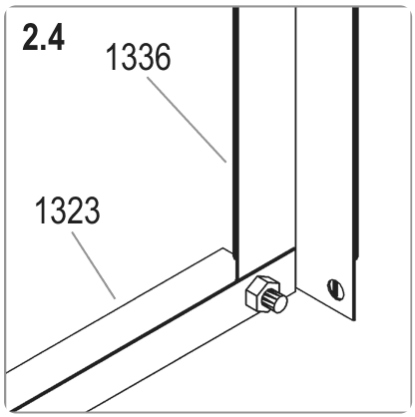
2.2

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



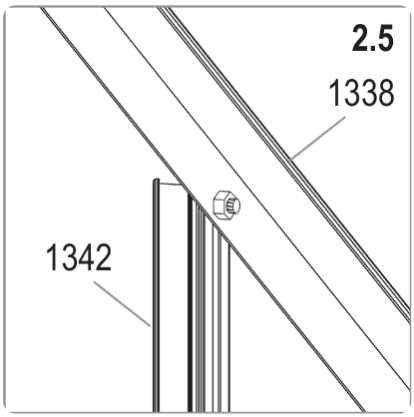
2.3

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.

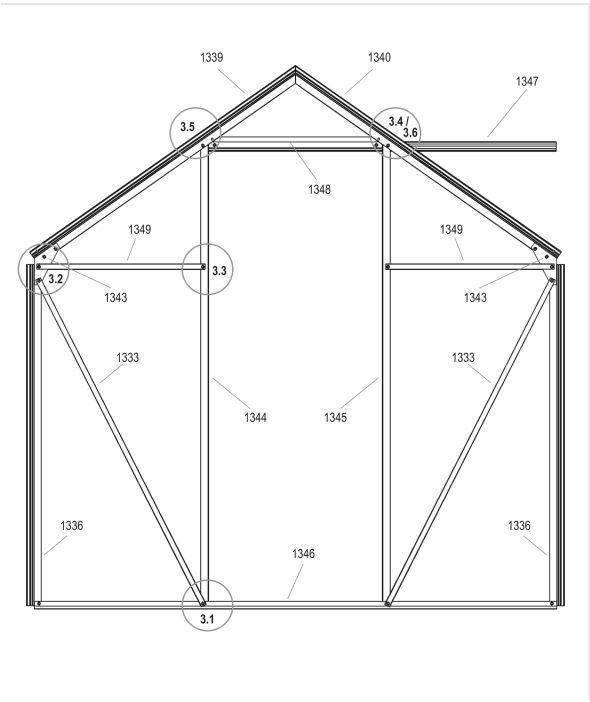
STEP 3

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

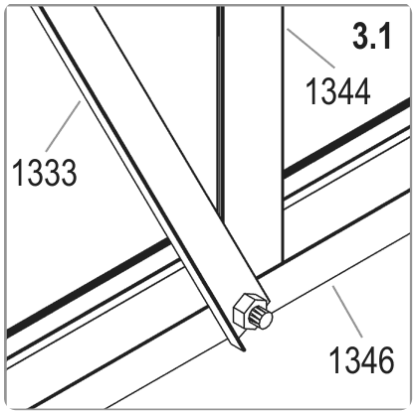
Choose the door direction now, usually towards your path and away from the prevailing wind. Changing it later means taking the gable apart.

WATCH OUT

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

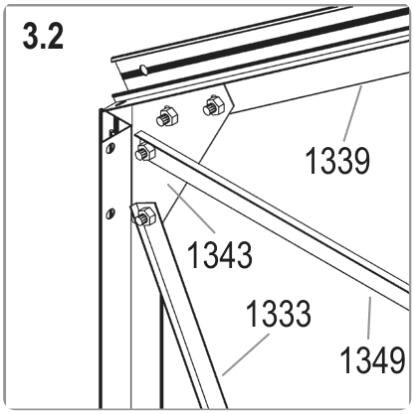
Watch: Door frame (front gable)

Scan with your phone camera. Vitavia video.



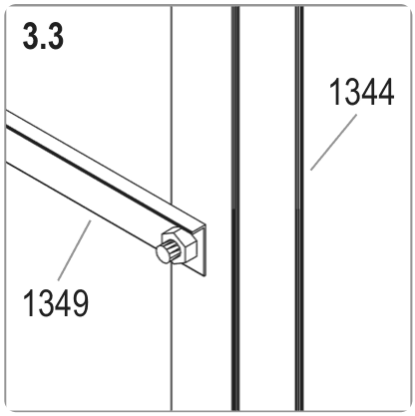
3.1

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



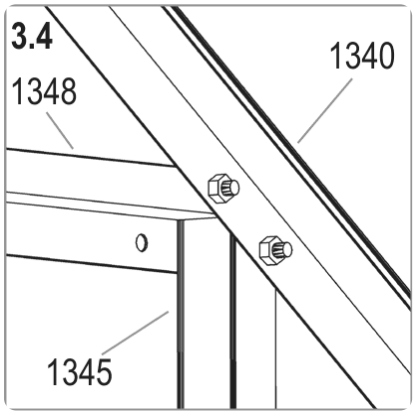
3.2

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



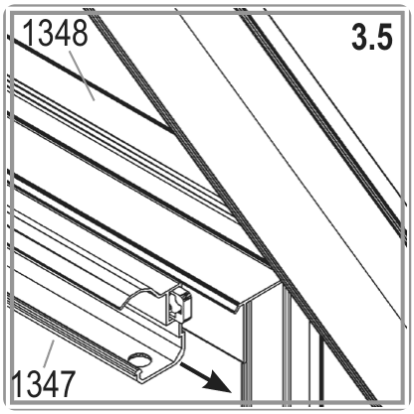
3.3

Bolt bar 1349 to door post 1344.



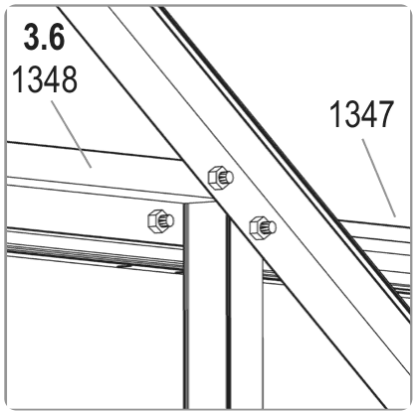
3.4

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.

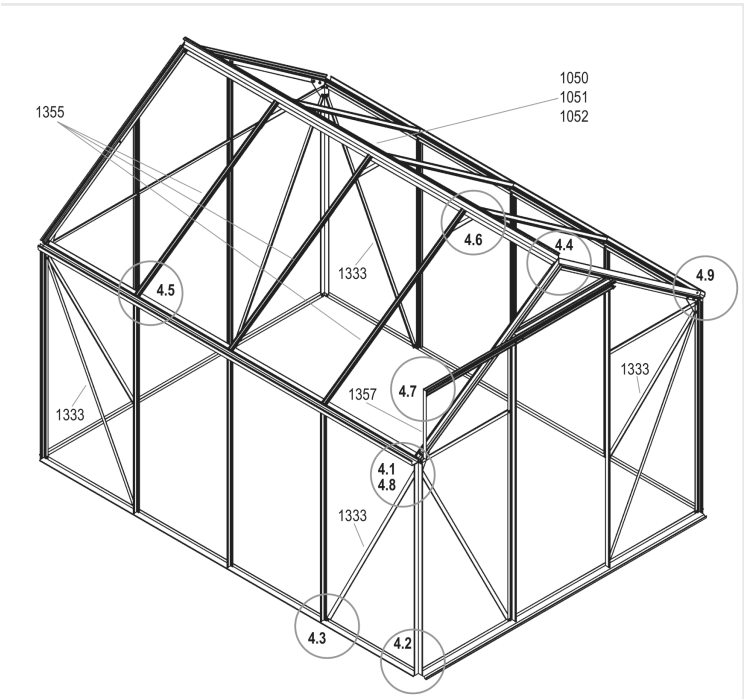
STEP 4

4 Join and stand the frame

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

YOU NEED

1001 ×45	**1002** ×46
1005 ×1	**1017** ×4
1018 ×8	**1052** ×1
1310 ×1	**1333** ×4
1355 ×6	**1356** ×3
1357 ×1	**6060** ×1



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

INSTALLER TIP

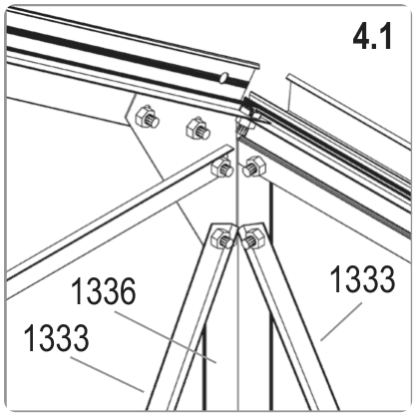
Count extra roof bolts on your drawing before you fit any end cap. The number depends on greenhouse size and vent position.

WATCH OUT

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

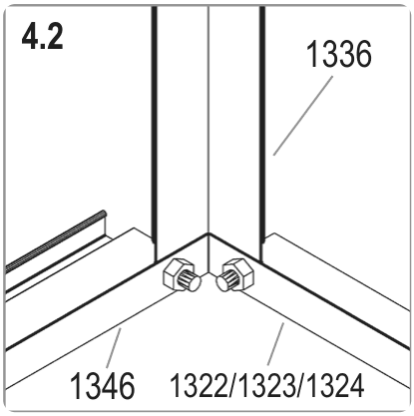
Watch: Front and roof bars

Scan with your phone camera. Vitavia video.



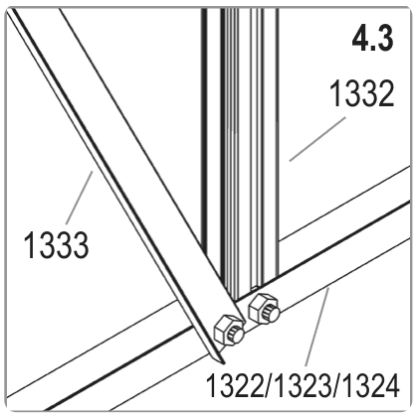
4.1

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



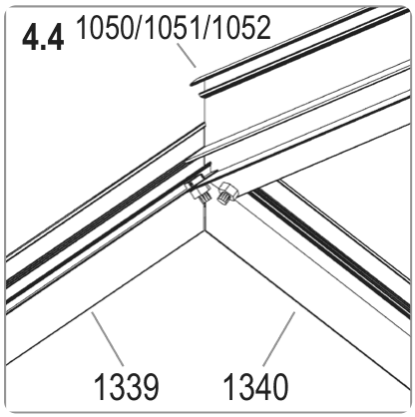
4.2

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



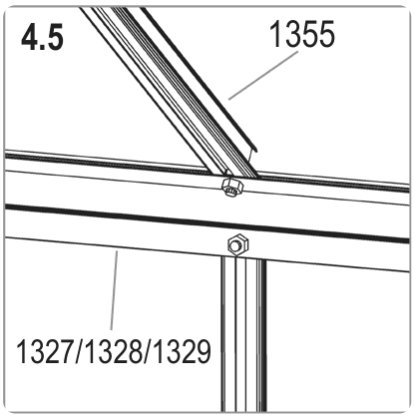
4.3

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



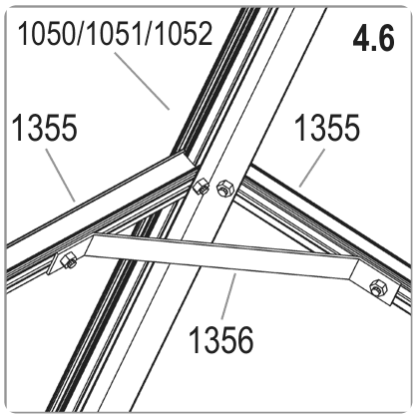
4.4

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.

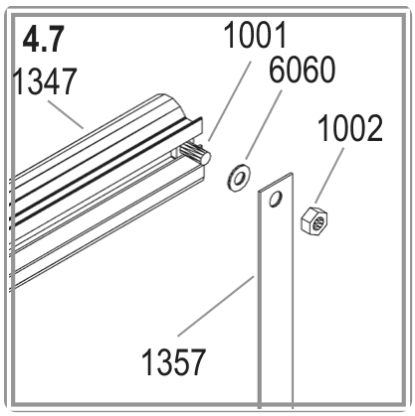


4.6

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.

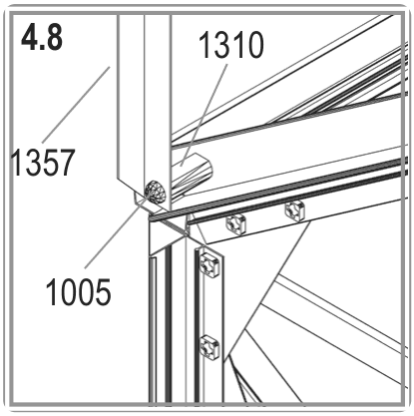
DO THIS NOW

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.



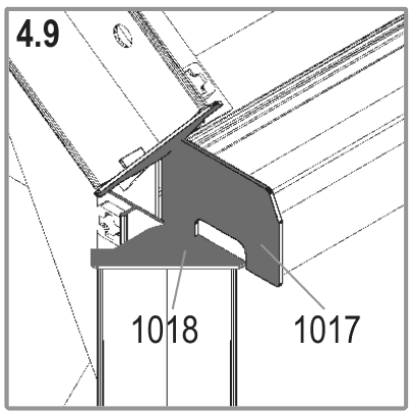
4.7 OUTSIDE VIEW

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.

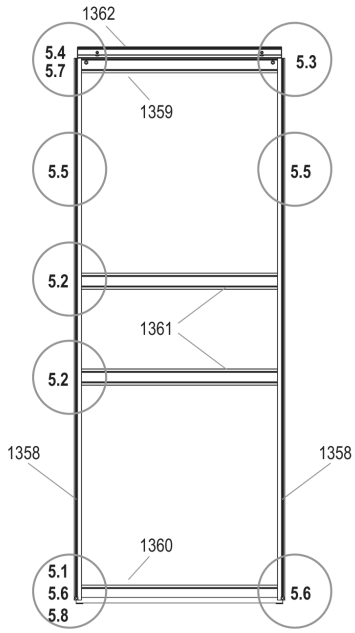
STEP 5

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



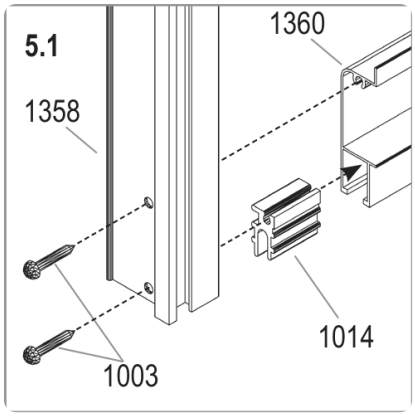
Vitavia drawing 5. The circled numbers match the pictures below.

INSTALLER TIP

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

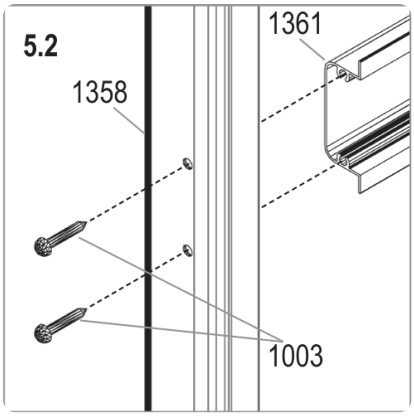
WATCH OUT

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



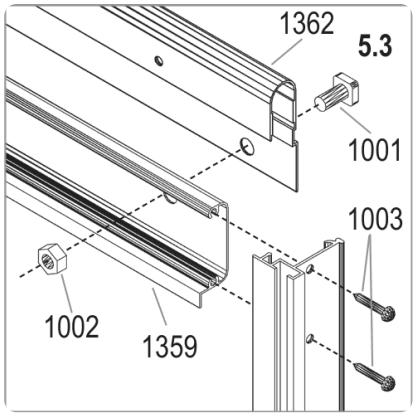
5.1

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



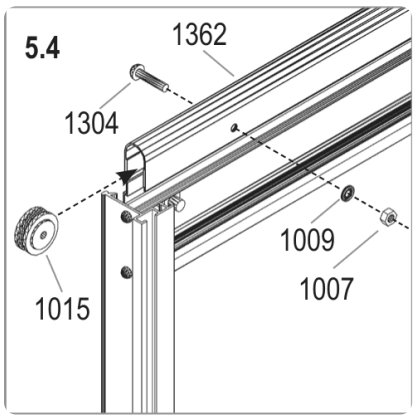
5.2

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



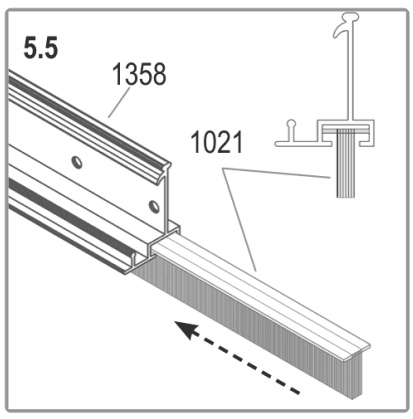
5.3

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.



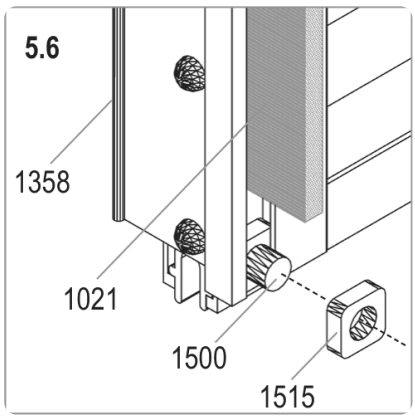
5.4

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



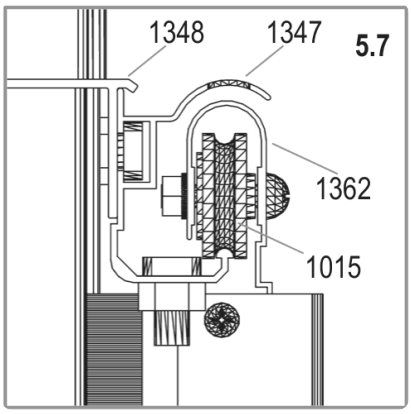
5.5 OUTSIDE VIEW

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



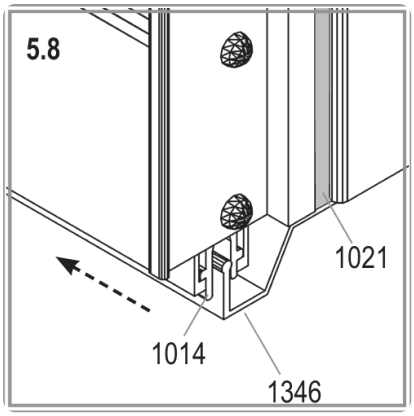
5.6

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.

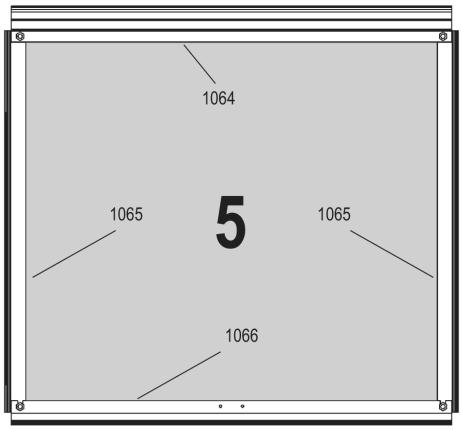
STEP 6

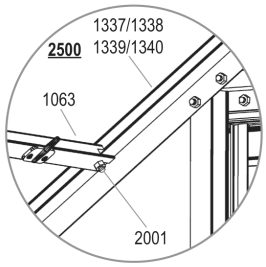
6 Fit the roof vent

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

YOU NEED

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





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

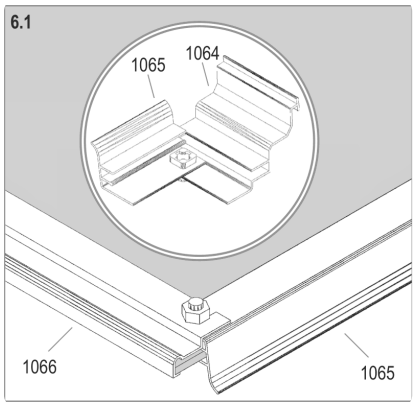
Vitavia drawing 6. The circled numbers match the pictures below.

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.

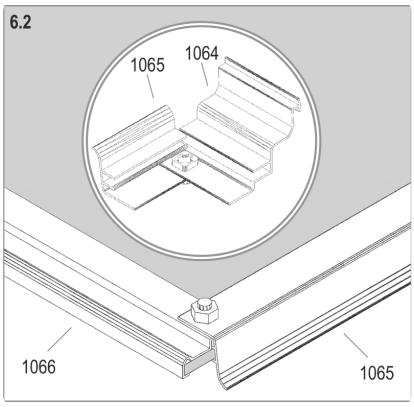
Watch: Build and fit the window

Scan with your phone camera. Vitavia video.



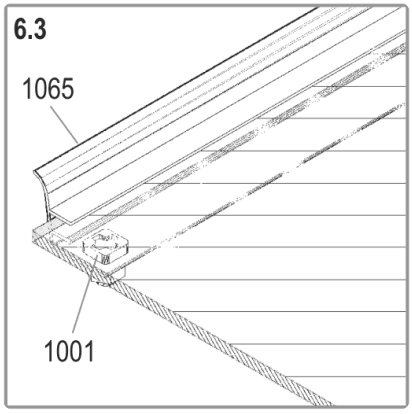
6.1

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



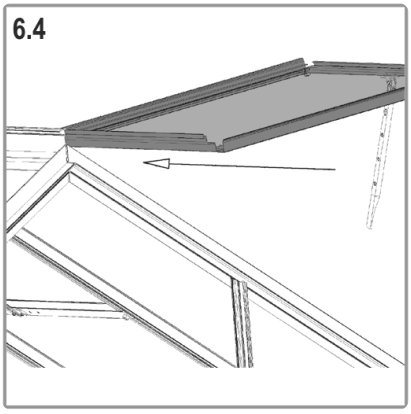
6.2

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



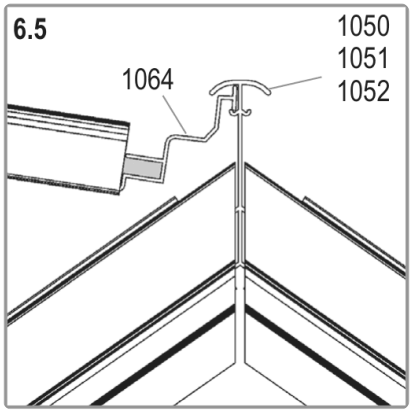
6.3 OUTSIDE VIEW

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.



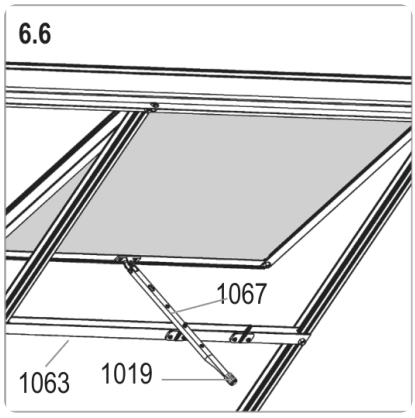
6.4 OUTSIDE VIEW

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



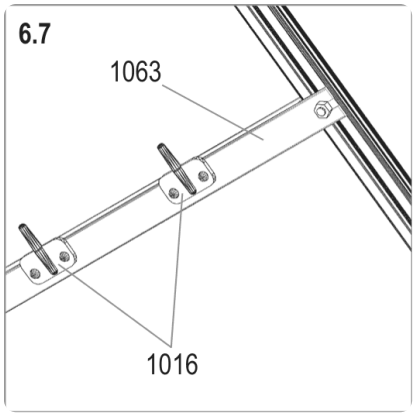
6.5 OUTSIDE VIEW

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



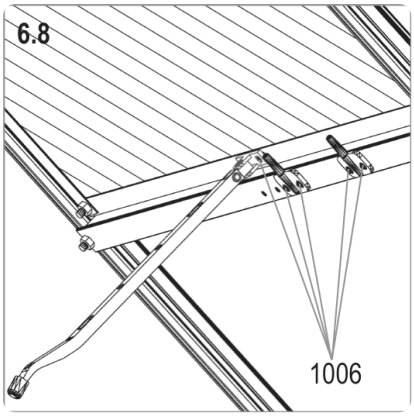
6.6

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.

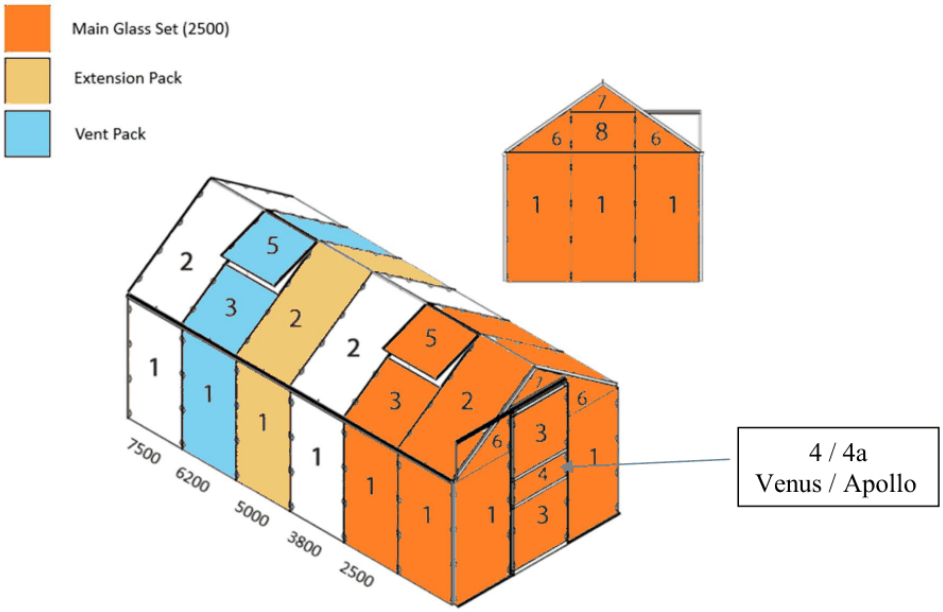
Your toughened glass

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 5000
1	610 × 1210	13
2	610 × 1144	7
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	**33**
	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	×208
1020	×1

INSTALLER TIP

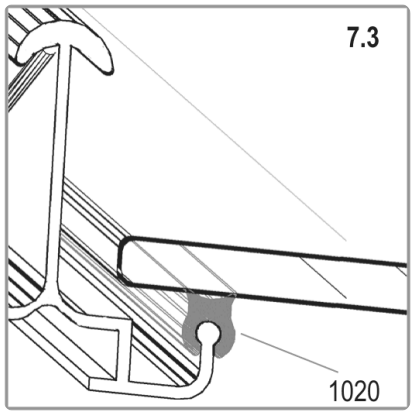
We recommend a hot soapy water soak for the whole seal reel first; it softens and presses on more easily. Glaze the roof before the walls to avoid leaning over fitted side glass.

WATCH OUT

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

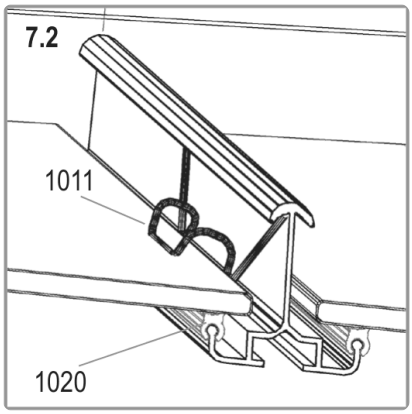
Watch: Fitting the glazing rubber

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.