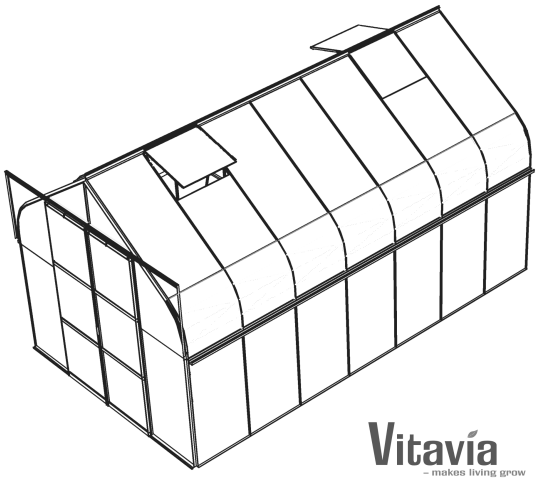
# Greenhouse Stores

ASSEMBLY GUIDE

# Saturn 11500

## 8x14 Vitavia greenhouse




**10**
steps, base first

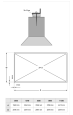
**2**
people needed

**4410 mm × 2544 mm**
base size (A × B)

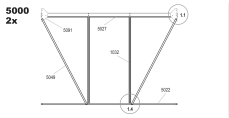
### Toughened glass version

Online version with every size: www.greenhousestores.co.uk/instructions/vitavia-saturn/

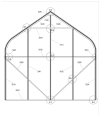
## The build at a glance



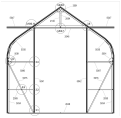
**0**
Prepare the base



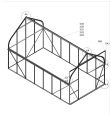

**1**
Build both side frames



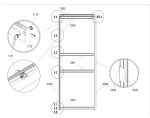
**2**
Build the back gable



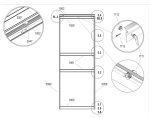
**3**
Build the door gable



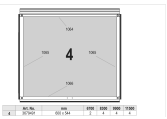
**4**
Join and raise the frame



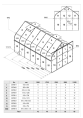
**5R**
Fit the right-hand door



**5L**
Fit the left-hand door




**6**
Build and fit roof vents



**7B**
Fit glazing layout B

Drawings: Vitavia (Vitavia manual 006.01.1212 (Saturn, printed as Diana)). 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)

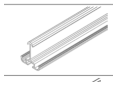
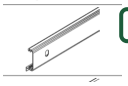
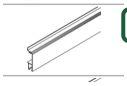
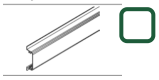
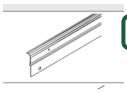
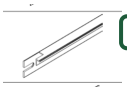
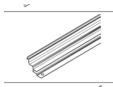
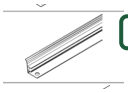
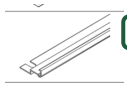
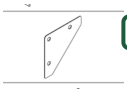
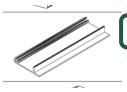
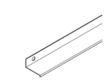
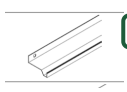
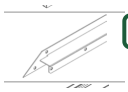
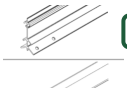
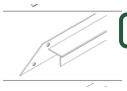
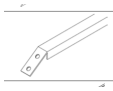
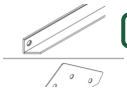
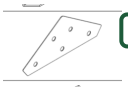
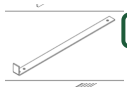
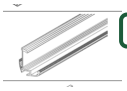
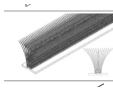
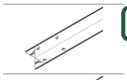
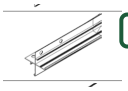
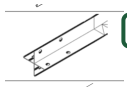
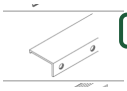
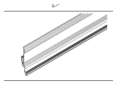
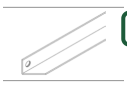
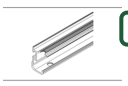
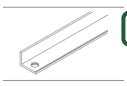
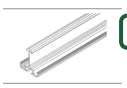
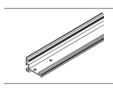
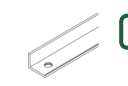
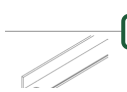
 Single frame: inside view  Double frame: outside view

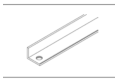
BEFORE STEP 1

# Parts check

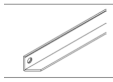
Open one bundle at a time. Tick each part as you find it. The number in green is how many your Saturn 11500 should have.

## Bars and profiles

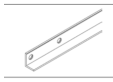
- ☐  **1020** Glazing seal (reel) — 130000 mm ×1
- ☐  **1032** Vertical bar — 1214 mm ×12
- ☐  **1059** Upper bar — 621 mm ×2
- ☐  **1060** Door bar — 621 mm ×2
- ☐  **1061** 621 mm ×4
- ☐  **1062** Door bar — 613 mm ×2
- ☐  **1063** Vent sill — 635 mm ×4
- ☐  **1064** Vent top bar — 602 mm ×4
- ☐  **1065** Vent side bar — 520 mm ×8
- ☐  **1066** Vent bottom bar — 602 mm ×4
- ☐  **1067** Window opener — 295 mm ×4
- ☐  **1092** Corner plate — 120 mm ×4
- ☐  **2005** — 100 mm ×1
- ☐  **2022** — 2484 mm ×1
- ☐  **2025** — 4350 mm ×2
- ☐  **2046** — 2484 mm ×1
- ☐  **2048** Horizontal bar — 1318 mm ×1
- ☐  **2053** Ridge bar — 4350 mm ×1
- ☐  **2054** — 1318 mm ×1
- ☐  **2057** Roof brace — 1184.5 mm ×6
- ☐  **2089** — 619 mm ×1
- ☐  **2090** — 619 mm ×1
- ☐  **2091** — 175 mm ×2
- ☐  **2094** — 426 mm ×1
- ☐  **2100** — 425 mm ×2
- ☐  **5021** Door seal — 1991 mm ×2
- ☐  **5031** — 4350 mm ×2
- ☐  **5034** — 1214 mm ×4
- ☐  **5035** — 1884 mm ×2
- ☐  **5036** — 1884 mm ×2
- ☐  **5039** — 2476 mm ×1
- ☐  **5041** Vertical bar — 2030 mm ×2
- ☐  **5042** Vertical bar — 2030 mm ×2
- ☐  **5043** Door runner support — 750 mm ×2
- ☐  **5047** Door runner bar — 1270 mm ×2
- ☐  **5049** Cross brace — 1304 mm ×4
- ☐  **5055** Roof glazing bar — 1861 mm ×12
- ☐  **5058** Outside side bar — 1991 mm ×2
- ☐  **5066** — 4342 mm ×2
- ☐  **5075** — 1304 mm ×1
- ☐  **5076** — 1304 mm ×1
- ☐  **5091** Corner plate — 178 mm ×8



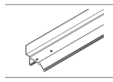
**5095**
Cross brace
1681 mm **×6**



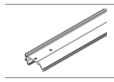
**5096**
619 mm **×1**



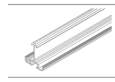
**5097**
619 mm **×1**



**5098**
Inside side bar (right)
1991 mm **×1**

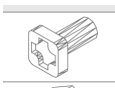


**5099**
Inside side bar (left)
1991 mm **×1**

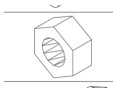


**5101**
Vertical bar
2030 mm **×1**

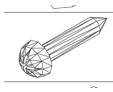
## Fixings and small parts



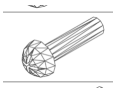
**1001**
Bolt
M6 × 12 **×272**



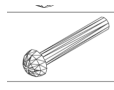
**1002**
Nut
M6 **×275**



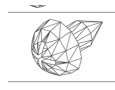
**1003**
Screw
3.5 × 16 **×32**



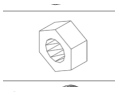
**1004**
M4 × 16 **×4**



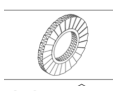
**1005**
Bolt
M6 × 40 **×2**



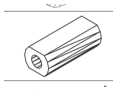
**1006**
Screw
3.5 × 6 **×24**



**1007**
Nut
M4 **×4**



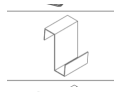
**1009**
Washer
Ø8/4 **×4**



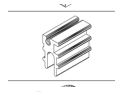
**1010**
Spacer
32 **×2**



**1011**
Glazing spring clip
70 **×518**



**1012**
Glass retaining clip
11 **×161**



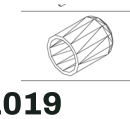
**1014**
Door glider
20 **×4**



**1015**
Door roller
Ø22 **×4**



**1017**
End cap
46 **×4**



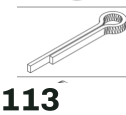
**1019**
Plastic cap
15 **×4**



**1111**
Door fixer
37.5 **×2**



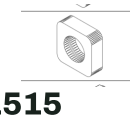
**1112**
Door fixer
7.4 **×2**



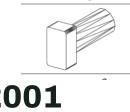
**1113**
Door fixer
25 **×2**



**1500**
Bolt
M6 × 5 **×2**



**1515**
Nut
M6 **×2**



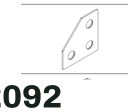
**2001**
Corner bolt
M6 × 12 **×1**



**2006**
10 **×2**



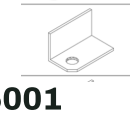
**2016**
40 **×8**



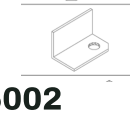
**2092**
37 **×6**



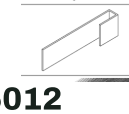
**2093**
56 **×1**



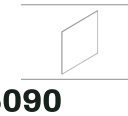
**5001**
33 **×1**



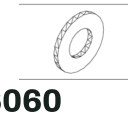
**5002**
33 **×1**



**5012**
10 **×14**



**5090**
610 × 610 **×14**

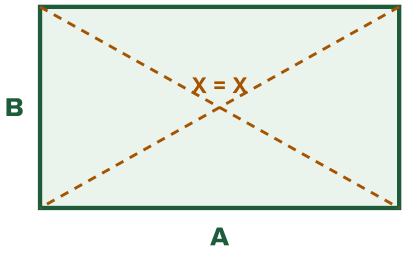


**6060**
Washer
Ø12/6 **×2**

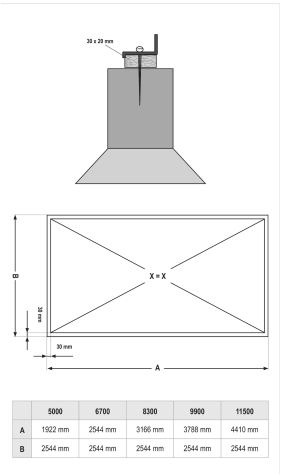
STEP 0

# 0 Prepare the base

Start with an exactly square, level base.




| | SATURN 11500 |
|---|---|
| A | 4410 mm |
| B | 2544 mm |




| | 5000 | 6700 | 8300 | 9900 | 11500 |
|---|---|---|---|---|---|
| A | 1922 mm | 2544 mm | 3166 mm | 3788 mm | 4410 mm |
| B | 2544 mm | 2544 mm | 2544 mm | 2544 mm | 2544 mm |

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

**INSTALLER TIP**

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

**WATCH OUT**

An uneven or unsquare base leaves the frame uneven or unsquare, and the glass will not fit. Check both diagonals twice.

**0.1**

Make the base exactly square and level; measure both diagonals and check they match, as X = X shows. Choose the accessory zinc-coated steel base for the easiest option.

**0.2**

Only for your own stone or concrete foundation, use this page's A and B. Fix treated timber between foundation and aluminium frame: 18 mm minimum height, 32 mm maximum width; 50 mm bolts (not supplied). The foundation must extend below frost level.

**0.3**

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

STEP 1

# 1 Build both side frames

Build two identical sides flat on the ground, with every bolt loose.

## YOU NEED


**1001** ×48


**1002** ×48


**1032** ×12


**2092** ×4

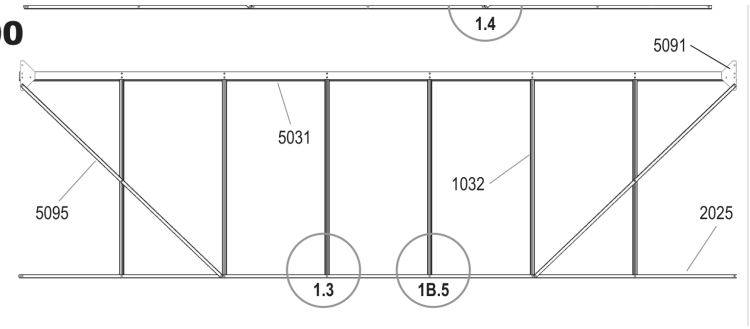

**5091** ×4


**5095** ×4


**2025** ×2


**5031** ×2

**11500**
**2x**




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

### INSTALLER TIP

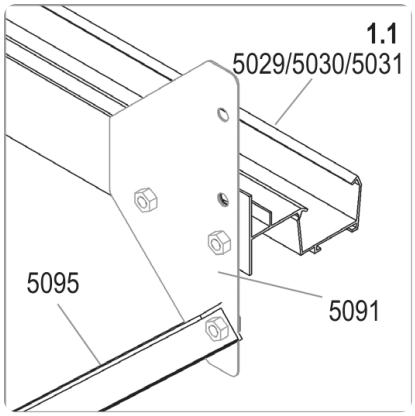
Lay the parts on a blanket or lawn to protect the finish. Leave every nut loose so the frame can flex during step 4.

### WATCH OUT

Uprights 1032 per side vary by size. The 5000 needs 2, 6700 needs 3, 8300 needs 4, 9900 needs 5 and 11500 needs 6. Fit every extra bolt before closing bar ends.

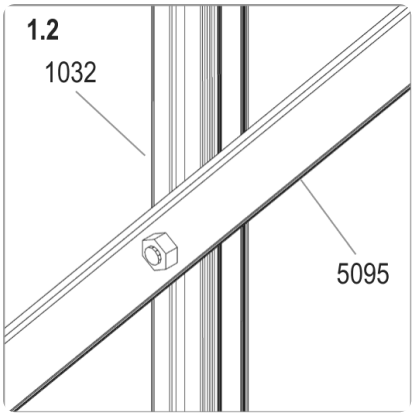
**Watch: Build the sides**

Scan with your phone camera. Vitavia video.



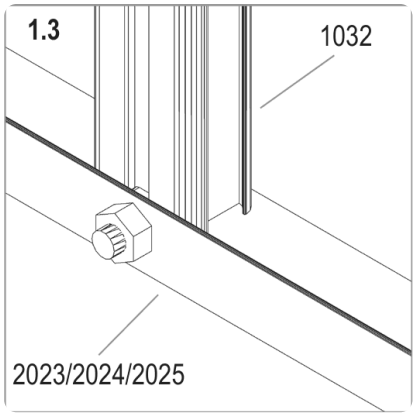

## 1.1

Loosely fit corner plate 5091 where your eave bar (5027, 5028, 5029, 5030 or 5031) meets brace (5049 or 5095). Leave these bolts loose for the gable connections in step 4.



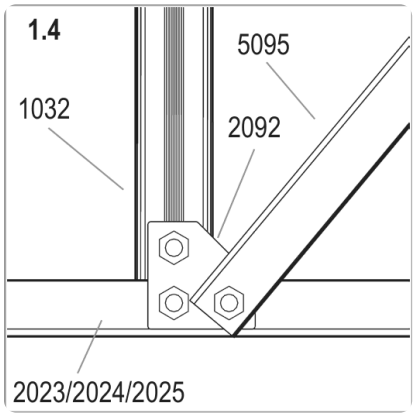

## 1.2

On the 6700, 8300, 9900 and 11500, slide one extra bolt into each outside upright 1032. Leave it ready for cross brace 5095.



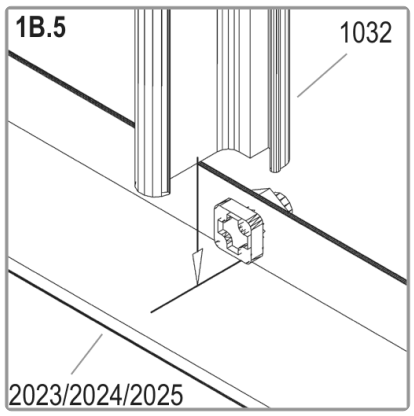

## 1.3

Bolt the bottom of each upright 1032 to your sill bar (5022, 2022, 2023, 2024 or 2025).




## 1.4

Join upright 1032 and your brace (5049 or 5095) to your sill bar with connector plate 2092, as shown.




## 1B.5 OUTSIDE VIEW

Slide the bolts into the sill bar channel through its open end, in the arrow's direction. Insert them before you close the bar end.

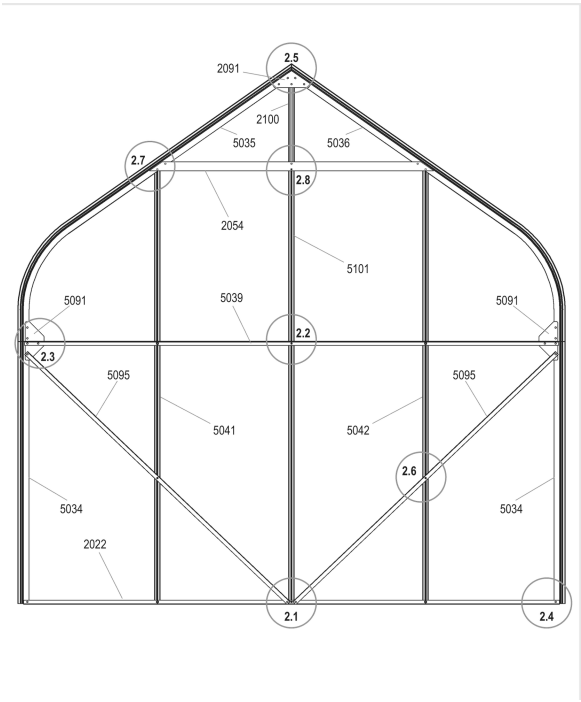
STEP 2

# 2 Build the back gable

Build the plain back gable flat on the ground, with all connections loose.

## YOU NEED

| | |
|---|---|
|  **1001** ×34 |  **1002** ×34 |
|  **2022** ×1 |  **2054** ×1 |
|  **2091** ×1 |  **2093** ×1 |
|  **2100** ×1 |  **5034** ×2 |
|  **5035** ×1 |  **5036** ×1 |
|  **5039** ×1 |  **5041** ×1 |
|  **5042** ×1 |  **5091** ×2 |
|  **5095** ×2 |  **5101** ×1 |




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

**INSTALLER TIP**

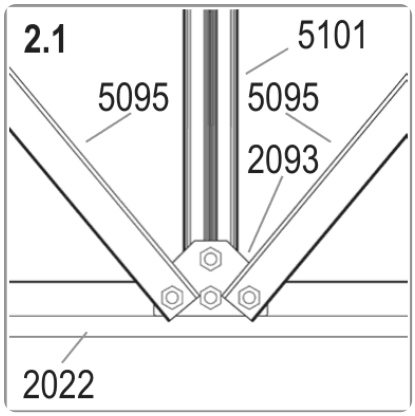
Build from the bottom upwards. Slide each extra bolt into its channel before you fit the bar above it.

**WATCH OUT**

Insert the extra bolts now. Without them, you must take the gable apart to fit the cross braces later.

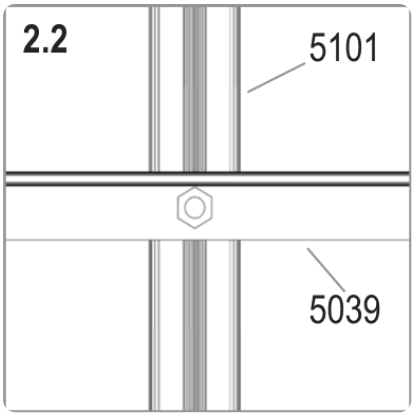
**Watch: Rear gable end**

Scan with your phone camera. Vitavia video.



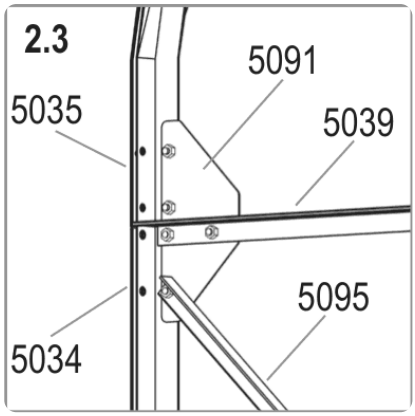

## 2.1

At the bottom centre, join upright 5101 and both cross braces 5095 to sill bar 2022 with connector plate 2093.



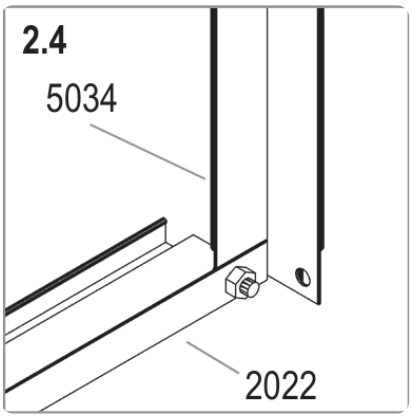

## 2.2

Bolt horizontal bar 5039 across upright 5101. Insert two extra bolts into each vertical bar 5041 and 5042 for cross braces, and one into 5101.



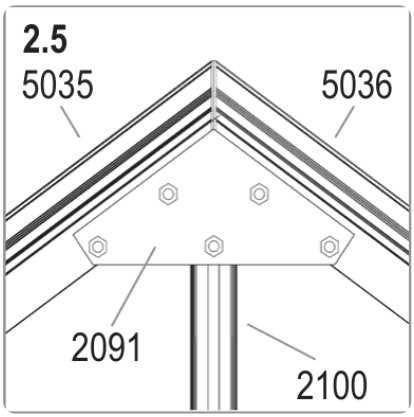

## 2.3

At each side, use corner plate 5091 to join roof bar 5035, horizontal bar 5039, cross brace 5095 and corner bar 5034.



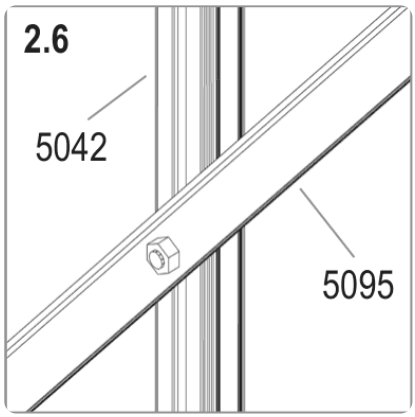

## 2.4

At each bottom corner, bolt corner bar 5034 to sill bar 2022.



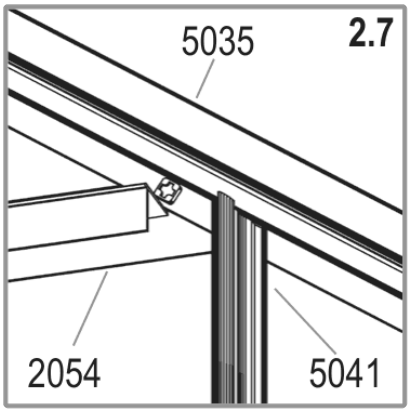

## 2.5

At the peak, use plate 2091 to join roof bars 5035 and 5036 to the top of upright 2100.



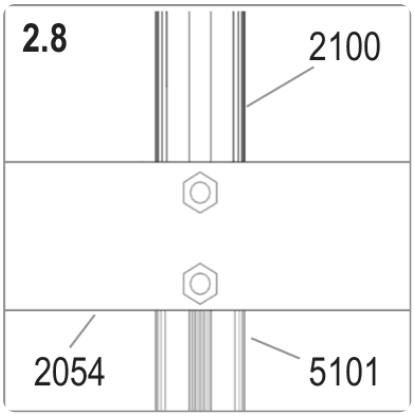

## 2.6

Bolt cross brace 5095 across vertical bar 5042.




## 2.7 OUTSIDE VIEW

Join horizontal bar 2054 to vertical bar 5041 under roof bar 5035, as shown.




## 2.8

Join upright 2100 and vertical bar 5101 to horizontal bar 2054 with two bolts.

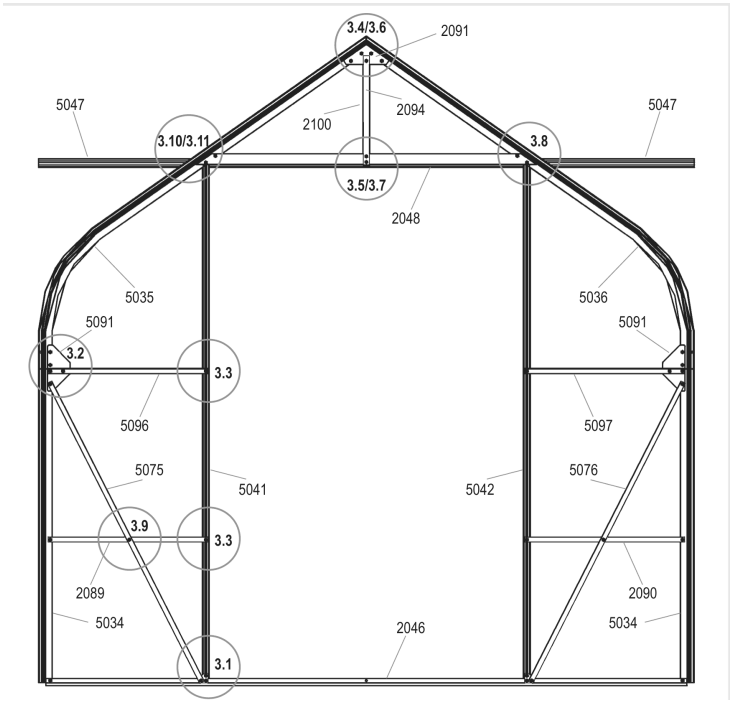
STEP 3

# 3 Build the door gable

Build the front door gable flat on the ground, with all connections loose.

## YOU NEED

| | |
|---|---|
|  **1001** ×43 |  **1002** ×43 |
|  **2046** ×1 |  **2048** ×1 |
|  **2089** ×1 |  **2090** ×1 |
|  **2091** ×1 |  **2092** ×2 |
|  **2094** ×1 |  **2100** ×1 |
|  **5001** ×1 |  **5002** ×1 |
|  **5034** ×2 |  **5035** ×1 |
|  **5036** ×1 |  **5041** ×1 |
|  **5042** ×1 |  **5047** ×2 |
|  **5075** ×1 |  **5076** ×1 |
|  **5091** ×2 |  **5096** ×1 |
|  **5097** ×1 | |




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

**INSTALLER TIP**

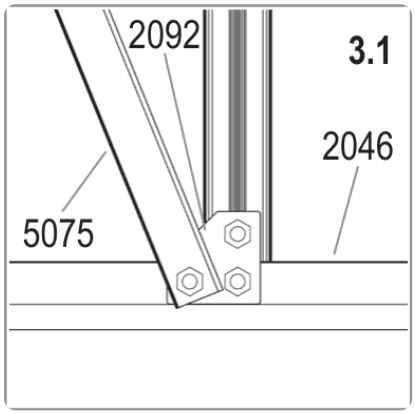
The Saturn has two sliding doors. Each door runner bar 5047 carries one door.

**WATCH OUT**

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

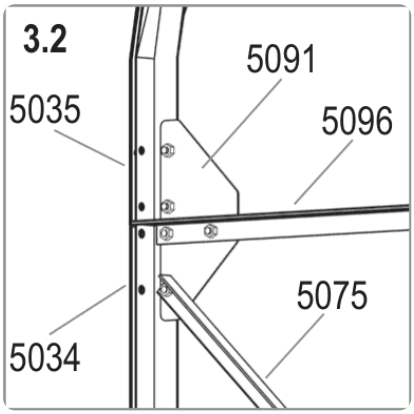
**Watch: Door frame (front gable)**

Scan with your phone camera. Vitavia video.



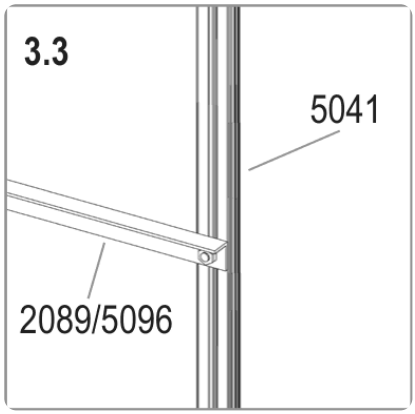

## 3.1

At the bottom, join brace 5075 and vertical bar 5041 to bottom bar 2046 with connector plate 2092.



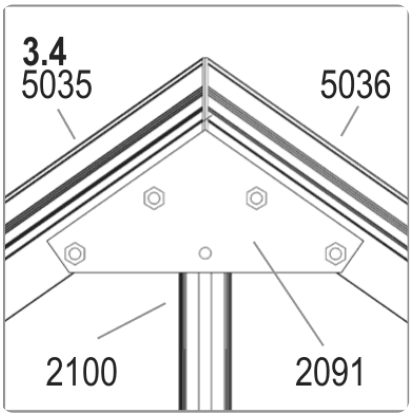

## 3.2

At each side, use corner plate 5091 to join roof bar 5035, bar 5096, brace 5075 and corner bar 5034.



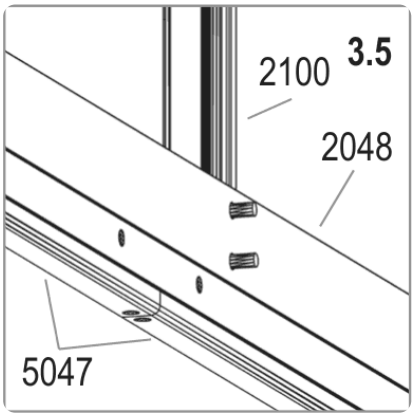

## 3.3

Bolt bars 5096 and 2089 to vertical bar 5041. Insert two extra bolts into each vertical bar 5041 and 5042.



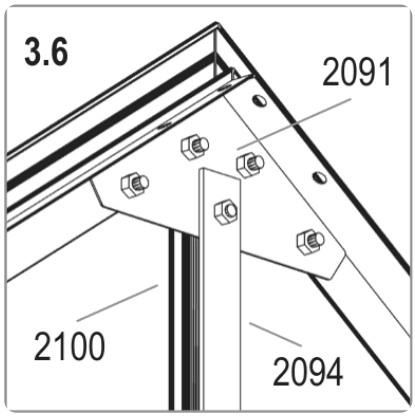

## 3.4

At the peak, use plate 2091 to join roof bars 5035 and 5036 to the top of upright 2100.



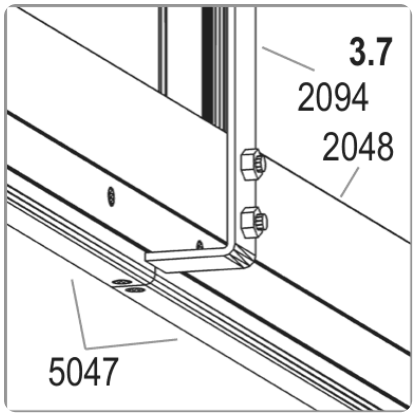

## 3.5

Bolt upright 2100 to horizontal bar 2048, with door runner bar 5047 below.



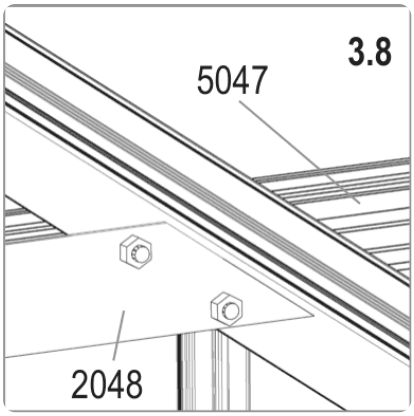

## 3.6

Join upright 2100 and bar 2094 with plate 2091, as shown.



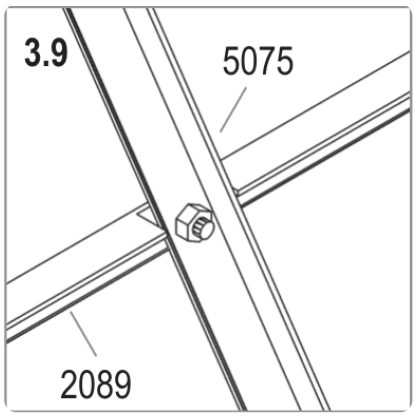

## 3.7

Bolt bar 2094 to horizontal bar 2048, with door runner bar 5047 below.



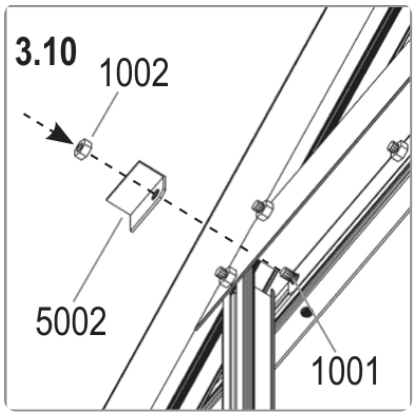

## 3.8

Join horizontal bar 2048 and door runner bar 5047, as shown.



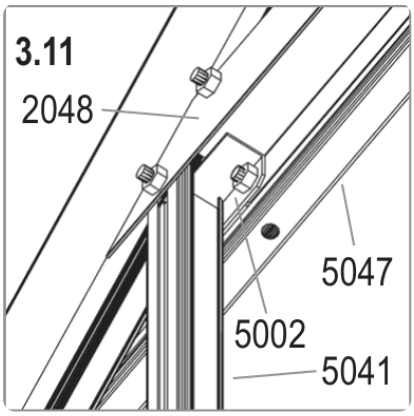

## 3.9

Bolt brace 5075 where it crosses bar 2089.



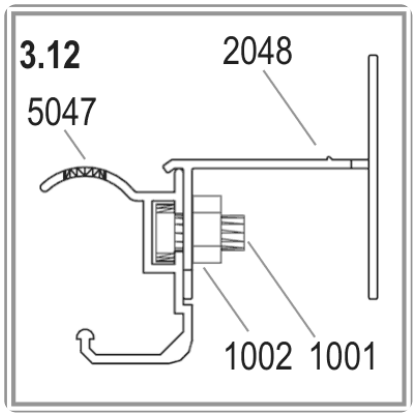

## 3.10

Connect part 5002 with bolt 1001 and nut 1002, as shown.




## 3.11

Join part 5002 to door runner bar 5047 at vertical bar 5041 and horizontal bar 2048. Connect parts 5001 and 5002 with a bolt.




## 3.12 OUTSIDE VIEW

Work from outside and loosely connect door runner bars 5047 to horizontal bar 2048. Use three nuts 1002 and bolts 1001.

STEP 4

# 4 Join and raise the frame

Greenhouse Stores

Work with another person to join the frames and stand the greenhouse up.

## YOU NEED



**1001** ×102



**1002** ×104



**1005** ×2



**1010** ×2



**1092** ×4



**2053** ×1



**5043** ×2



**6060** ×2



**1017** ×4



**2057** ×6



**5049** ×4



**5055** ×12



**5066** ×2

### INSTALLER TIP

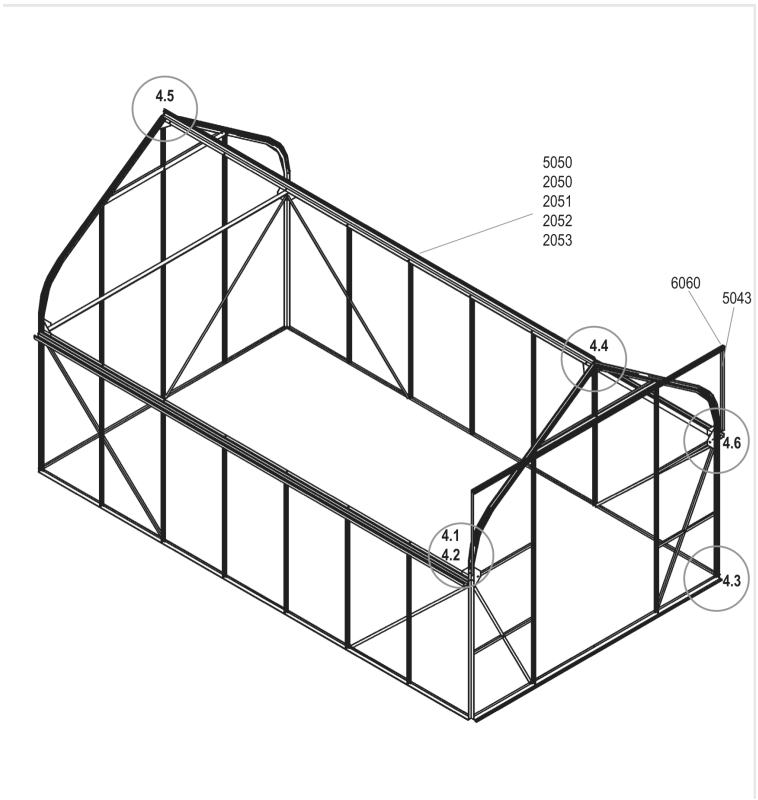
Count the circled extra bolts on every roof bar before you fit any end cap. Quantities depend on greenhouse size and vent positions.

### WATCH OUT

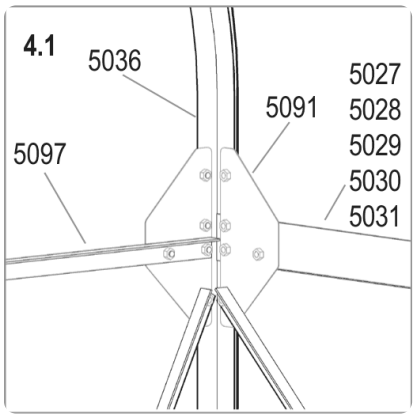
Keep every connection loose until the greenhouse is square on its base, or you can bolt in a twist. You cannot adjust the frame after glazing.

**Watch: Front and roof bars**

Scan with your phone camera. Vitavia video.

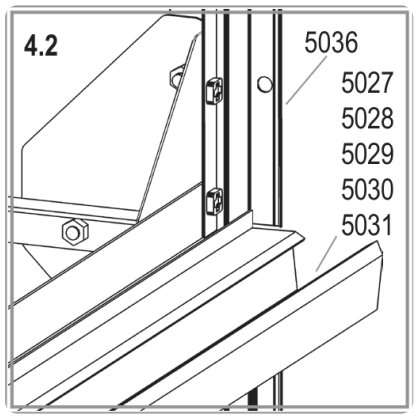



Vitavia drawing 4A. The circled numbers match the pictures below.



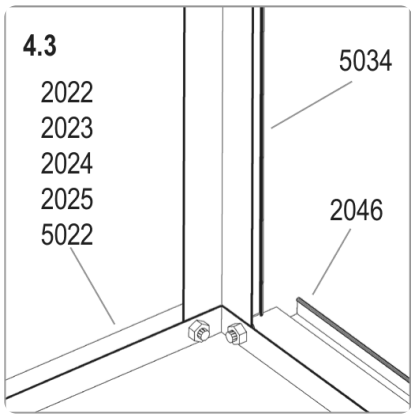

## 4.1

Use corner plate 5091 to bolt your eave bar (5027, 5028, 5029, 5030 or 5031) to each gable. Make this connection where roof bar 5036 and bar 5097 meet.



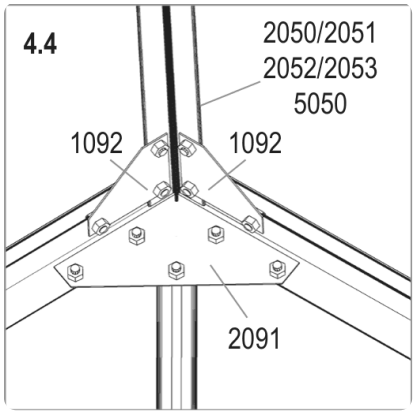

## 4.2 OUTSIDE VIEW

Work from outside and bolt the side frame to the gable where your eave bar meets roof bar 5036.



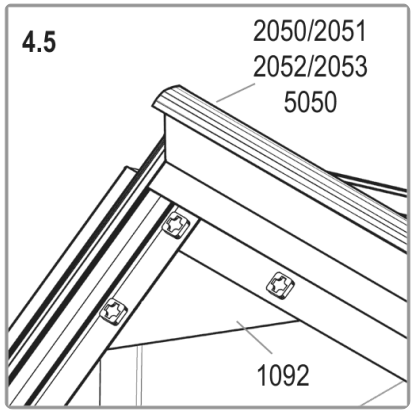

## 4.3

Bolt each side frame to the gables where your sill bar (5022, 2022, 2023, 2024 or 2025) meets 5034 and 2046.



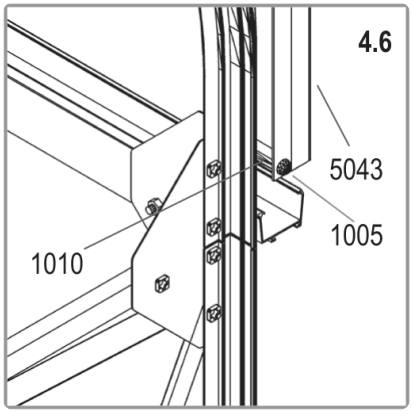

## 4.4

Fit your ridge bar (5050, 2050, 2051, 2052 or 2053). Fix it to each gable with corner plates 1092 beside plate 2091.



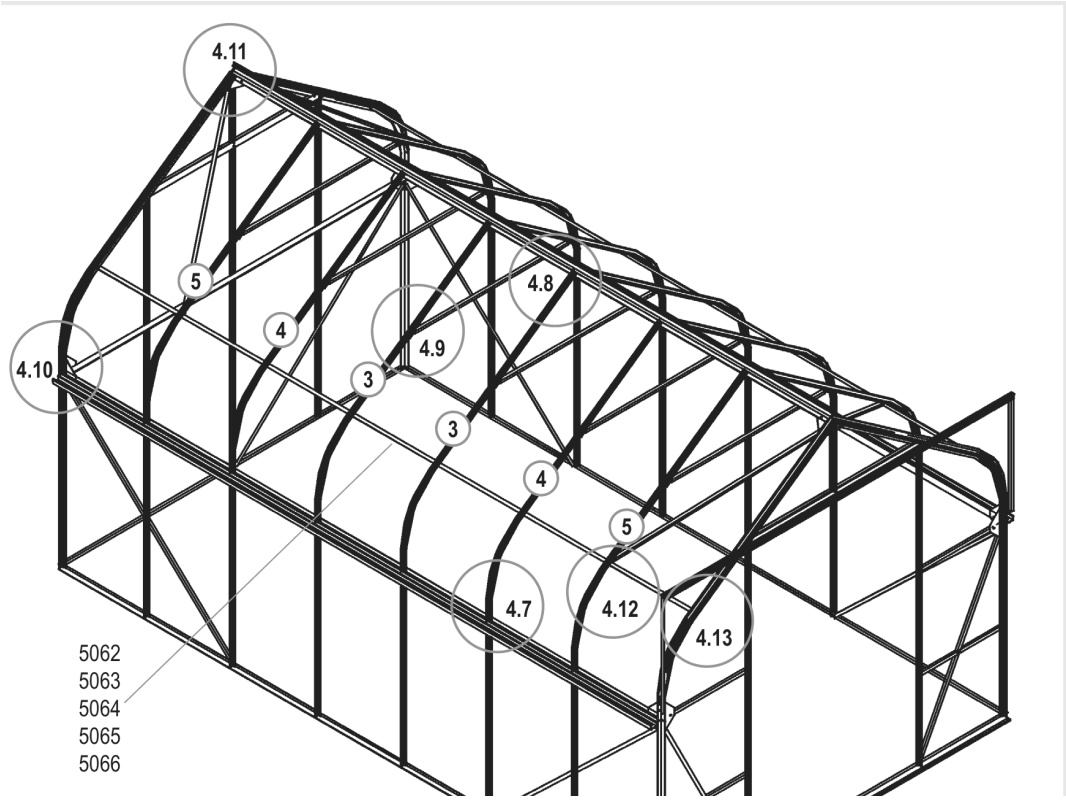

## 4.5 OUTSIDE VIEW

Fit corner plate 1092 under the ridge bar at each gable end, as shown.

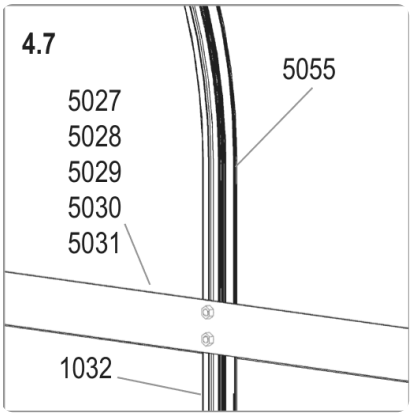



## 4.6 OUTSIDE VIEW

Connect each door runner support 5043 to its runner bar 5047 with washer 6060. Fix each support to the gable with bolt 1005 and spacer 1010.

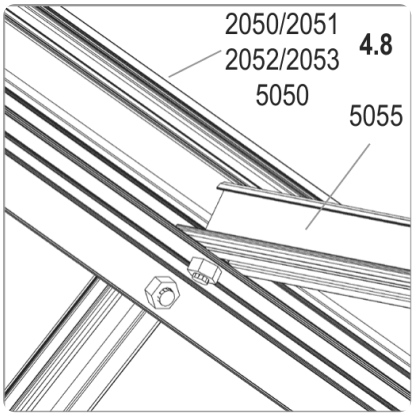



Vitavia drawing 4B. The circled numbers match the pictures below.



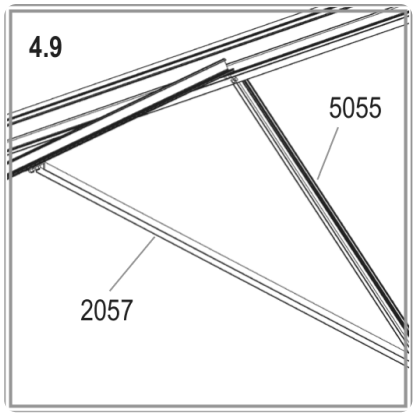

## 4.7

Bolt roof glazing bars 5055 to your eave bar above uprights 1032.



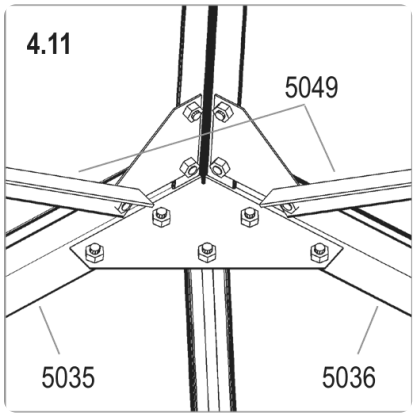

## 4.8

Bolt roof glazing bars 5055 to your ridge bar and insert extra bolts to match your chosen vent positions. Read circled bolt quantities from both ends of each bar in the drawing.



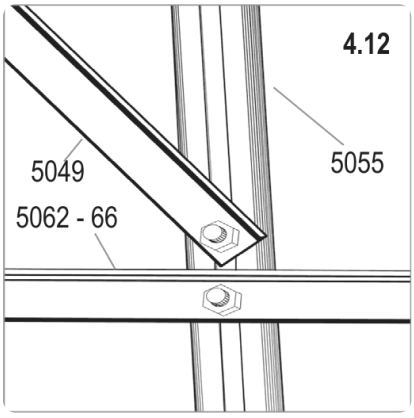

## 4.9 OUTSIDE VIEW

Work from outside and connect roof braces 2057 to roof glazing bars 5055.



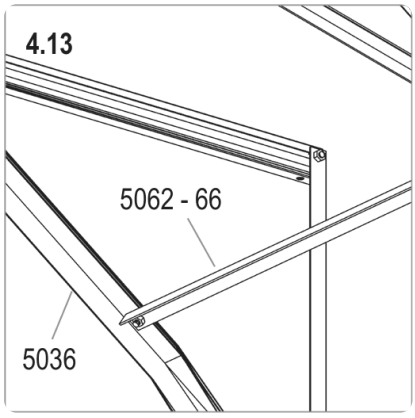

## 4.11

Connect cross braces 5049 at the gable peak, as shown.




## 4.12

Bolt cross brace 5049 where it crosses roof glazing bar 5055 and your bar (5062, 5063, 5064, 5065 or 5066).

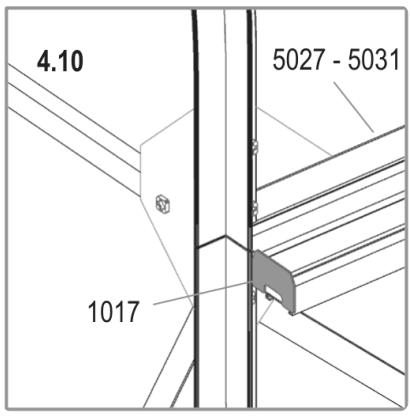



## 4.13

Connect your bar (5062, 5063, 5064, 5065 or 5066) to roof bar 5036, as shown.

**DO THIS NOW**

Place the greenhouse on its prepared base, bolt it down loosely and adjust until both corner-to-corner diagonals match. Only then tighten all bolts, to a maximum of 3 Nm.




**4.10** OUTSIDE VIEW

Press end caps 1017 onto the eave ends.

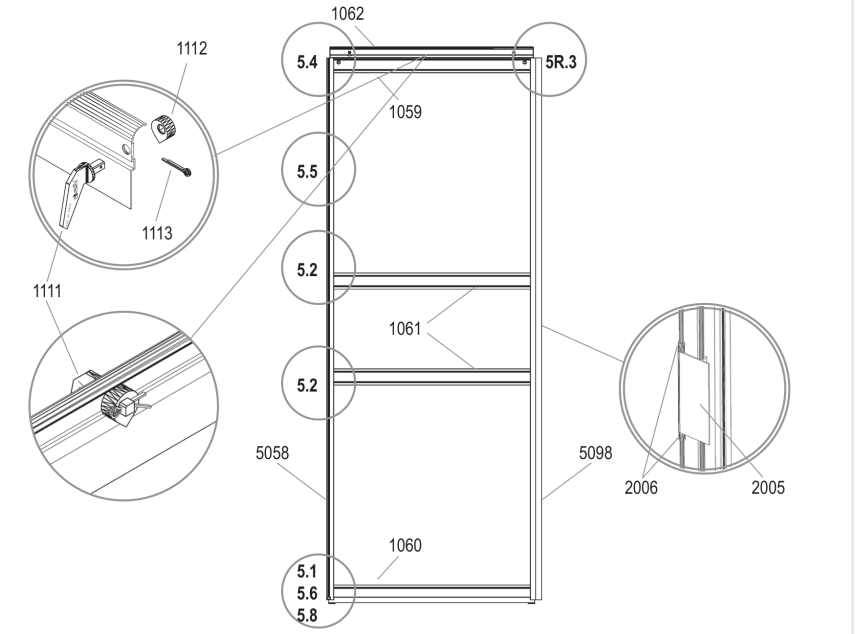
STEP 5R

# 5R Fit the right-hand door

Build and hang the first of your two sliding doors.

## YOU NEED

| | | | |
|---|---|---|---|
| 1001 | ×2 | 1002 | ×2 |
| 1003 | ×16 | 1004 | ×2 |
| 1007 | ×2 | 1009 | ×2 |
| 1014 | ×2 | 1015 | ×2 |
| 1059 | ×1 | 1060 | ×1 |
| 1061 | ×2 | 1062 | ×1 |
| 1111 | ×1 | 1112 | ×1 |
| 1113 | ×1 | 1500 | ×1 |
| 1515 | ×1 | 2005 | ×1 |
| 2006 | ×2 | 5021 | ×1 |
| 5058 | ×1 | 5098 | ×1 |



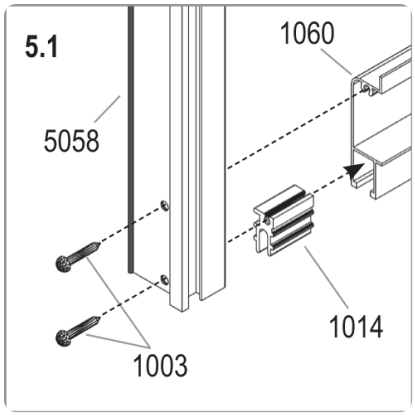

Vitavia drawing 5R. The circled numbers match the pictures below.

### INSTALLER TIP

If the door binds or jumps the track, check the frame is square before you force it. An unsquare frame is almost certainly the cause.

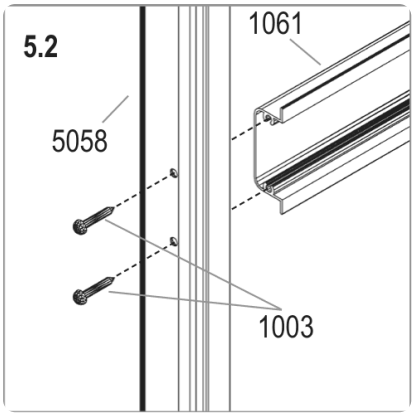
### WATCH OUT

Never stand an assembled door on gliders 1014; this damages them. Use inside side bar 5098 for the right-hand door and 5099 for the left.



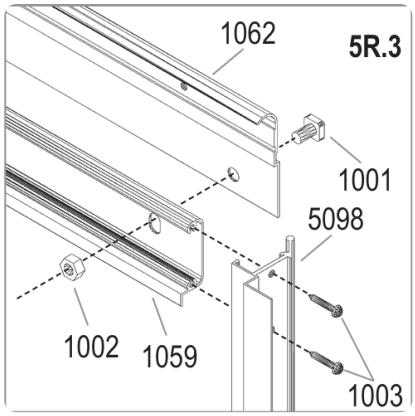

## 5.1

Push a door glider 1014 onto each end of bottom door bar 1060. Screw outside side bar 5058 to it with screws 1003.



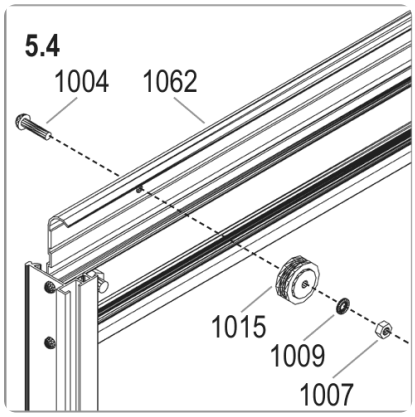

## 5.2

Screw middle bars 1061 to the side bars with screws 1003.



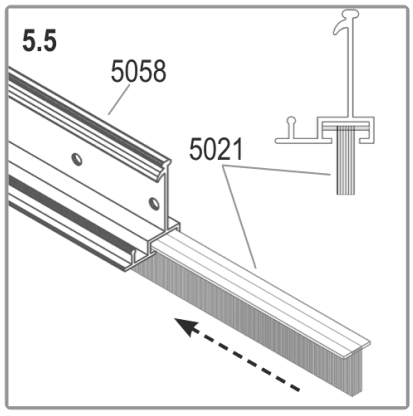

## 5R.3

Bolt door bar 1062 to upper bar 1059 with bolt 1001 and nut 1002. Screw inside side bar 5098 on with screws 1003.



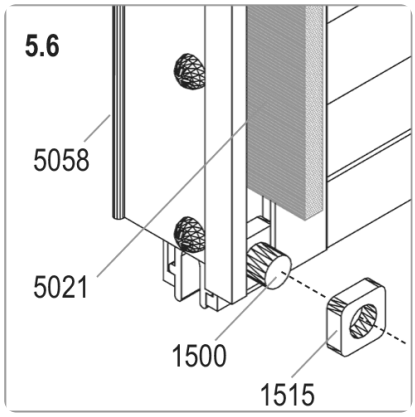

## 5.4

Fix both door rollers 1015 to door bar 1062 with bolt 1004, washer 1009 and nut 1007.




## 5.5 OUTSIDE VIEW

Slide door seal 5021 into outside side bar 5058.




## 5.6

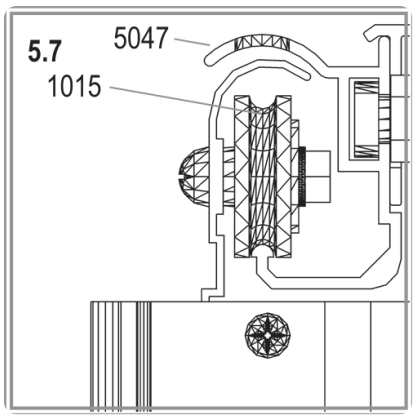
Slide bolt 1500 into the bottom of the door seal channel and secure it with nut 1515. This stops the seal sliding out.

**DO THIS NOW**

Fit part 2005 with both parts 2006 to inside side bar 5098. Connect door fixer parts 1111, 1112 and 1113 as shown in the circled views.

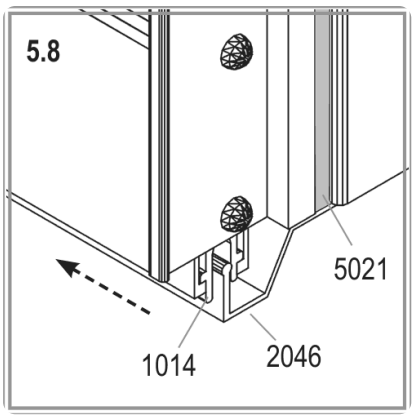
**DO THIS NOW**

Loosen door runner supports 5043 before you hang the door.




**5.7** OUTSIDE VIEW

Work from outside, lift the door and slide rollers 1015 into door runner bar 5047.




**5.8** OUTSIDE VIEW

Check from outside that door gliders 1014 also run in the bottom track of bar 2046.

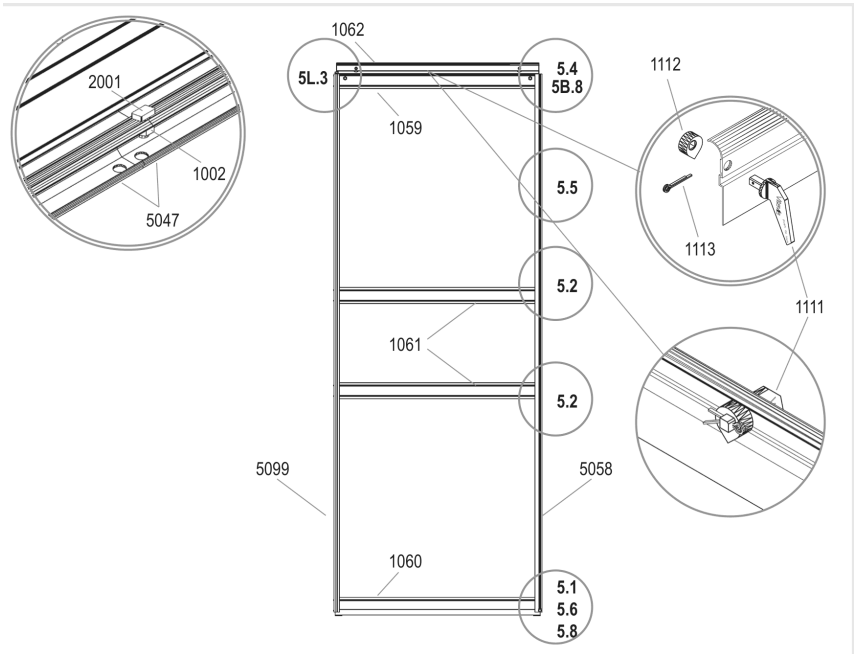
STEP 5L

# 5L Fit the left-hand door

Build and hang the second door, then adjust both doors together.

## YOU NEED

| | | | |
|---|---|---|---|
|  | **1001** ×2 |  | **1002** ×3 |
|  | **1003** ×16 |  | **1004** ×2 |
|  | **1007** ×2 |  | **1009** ×2 |
|  | **1014** ×2 |  | **1015** ×2 |
|  | **1059** ×1 |  | **1060** ×1 |
|  | **1061** ×2 |  | **1062** ×1 |
|  | **1111** ×1 |  | **1112** ×1 |
|  | **1113** ×1 |  | **1500** ×1 |
|  | **1515** ×1 |  | **2001** ×1 |
|  | **5021** ×1 |  | **5058** ×1 |
|  | **5099** ×1 | | |



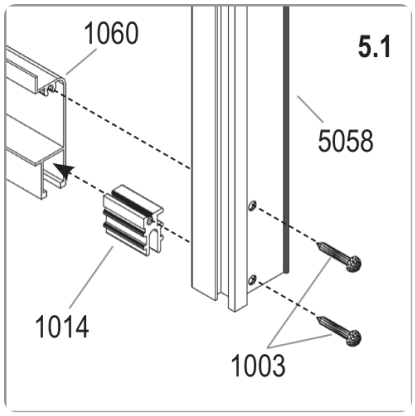

Vitavia drawing 5L. The circled numbers match the pictures below.

**INSTALLER TIP**

Hang the left-hand door the same way as the right-hand door. Adjust both together until they slide freely.

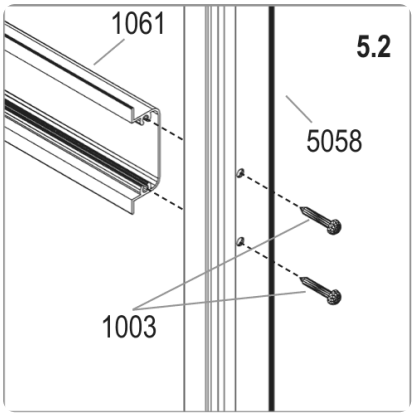
**WATCH OUT**

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



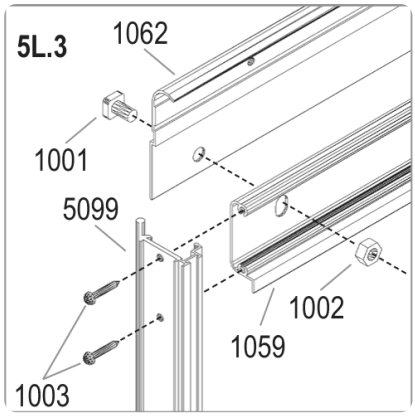

## 5.1

Push a door glider 1014 onto each end of bottom door bar 1060. Screw outside side bar 5058 to it with screws 1003.



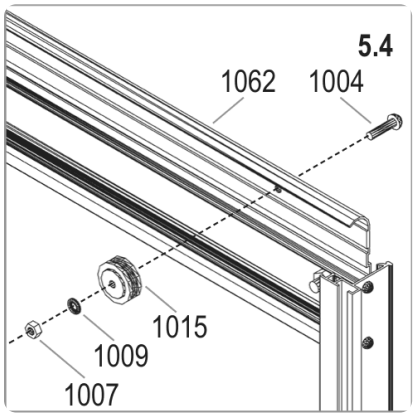

## 5.2

Screw middle bars 1061 to the side bars with screws 1003.



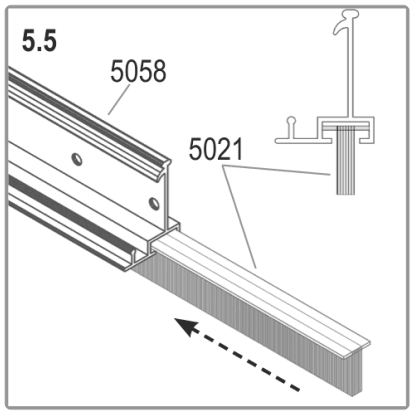

## 5L.3

Bolt door bar 1062 to upper bar 1059 with bolt 1001 and nut 1002. Screw inside side bar 5099 on with screws 1003.



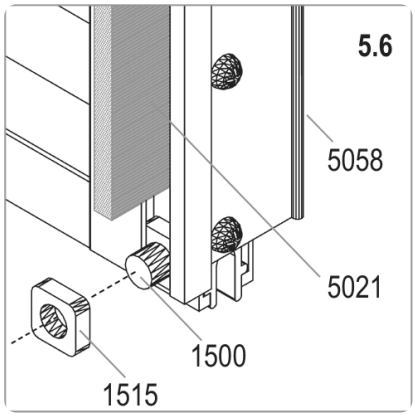

## 5.4

Fix both door rollers 1015 to door bar 1062 with bolt 1004, washer 1009 and nut 1007.



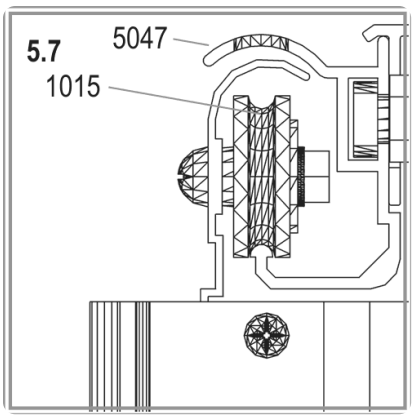

## 5.5 OUTSIDE VIEW

Slide door seal 5021 into outside side bar 5058.



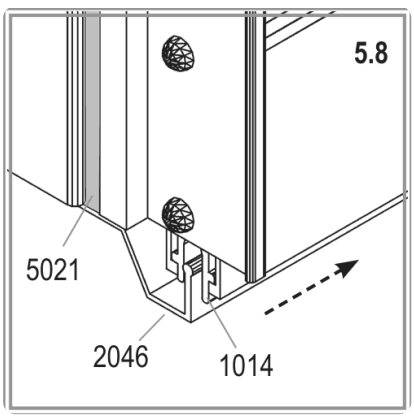

## 5.6

Slide bolt 1500 into the bottom of the door seal channel and secure it with nut 1515. This stops the seal sliding out.




**5.7** OUTSIDE VIEW

Work from outside, lift the door and slide rollers 1015 into door runner bar 5047.




**5.8** OUTSIDE VIEW

Check from outside that door gliders 1014 also run in the bottom track of bar 2046.

**DO THIS NOW**

Connect door fixer parts 1111, 1112 and 1113 as the door drawing shows. Insert bolt 2001 with nut 1002 into the join between door runner bars 5047. Fit a nut and bolt into both runner ends as door stops. Adjust both doors until they slide freely.

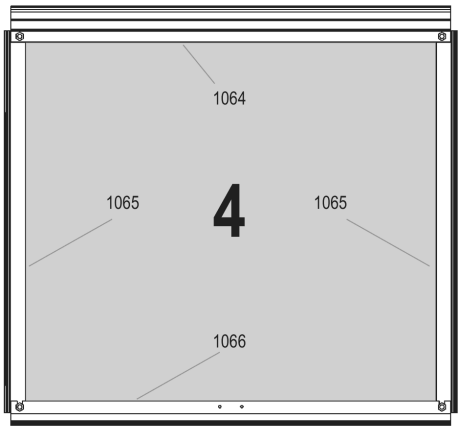
STEP 6

# 6 Build and fit roof vents

Fit one vent on the 5000, two on the 6700 and 8300, or four on the 9900 and 11500.

## YOU NEED

| | |
|---|---|
|  **1001** ×16 |  **1002** ×16 |
|  **1006** ×24 |  **1019** ×4 |
|  **1063** ×4 |  **1064** ×4 |
|  **1065** ×8 |  **1066** ×4 |
|  **1067** ×4 |  **2016** ×8 |




| | Art. No. | mm | 6700 | 8300 | 9900 | 11500 |
|---|---|---|---|---|---|---|
| 4 | 3679491 | 600 x 544 | 2 | 4 | 4 | 4 |

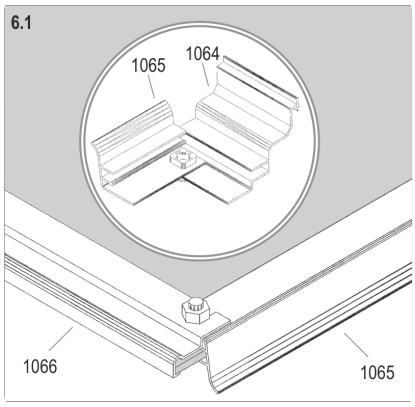
Vitavia drawing 6. The circled numbers match the pictures below.

### INSTALLER TIP

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

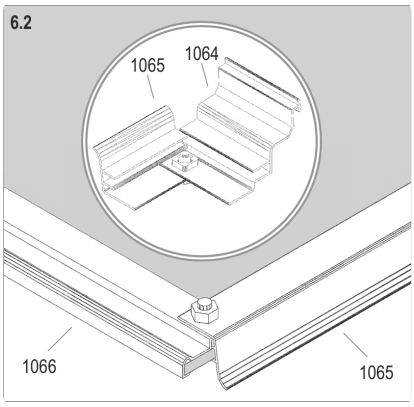
**Watch: Build and fit the window**

Scan with your phone camera. Vitavia video.



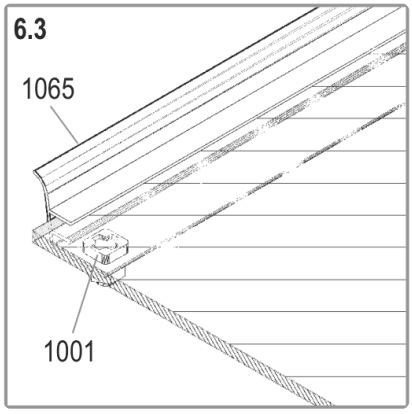

## 6.1

For glass up to 4 mm thick, join vent side bars 1065 and top bar 1064 as shown here.



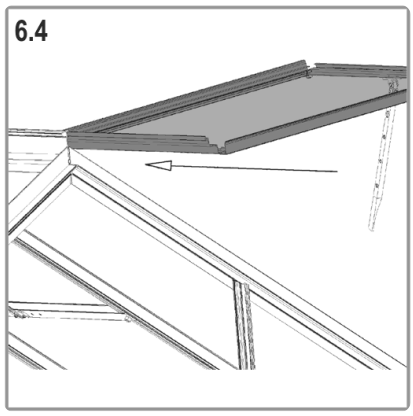

## 6.2

For glass 4 mm or thicker, join vent side bars 1065 and top bar 1064 as shown here instead.



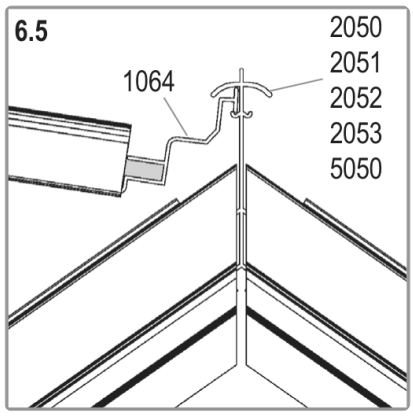

## 6.3 OUTSIDE VIEW

Insert the bottom bar 1066 bolts into the prepared holes, then slide the glass into the side bar 1065 tracks. Fit bottom bar 1066 and check the vent is square before tightening.



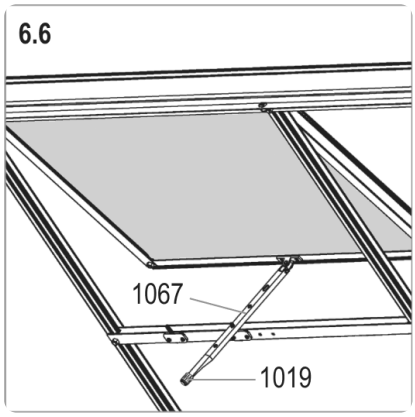

## 6.4 OUTSIDE VIEW

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



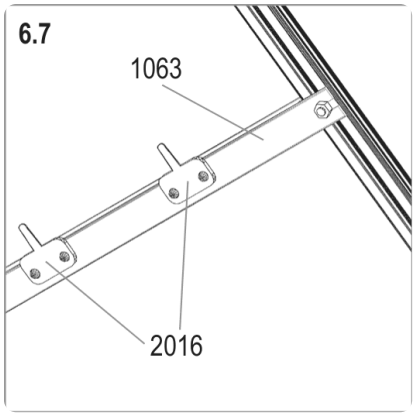

## 6.5 OUTSIDE VIEW

Hook vent top bar 1064 over your ridge bar (5050, 2050, 2051, 2052 or 2053).



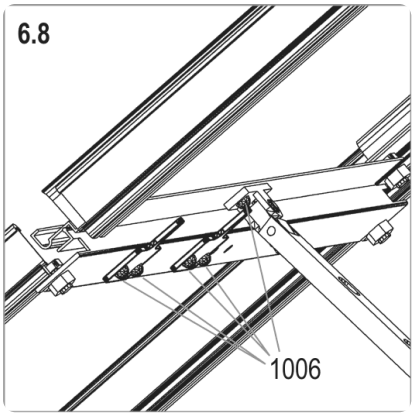

## 6.6

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 bars. Screw both window fixers 2016 onto vent sill 1063 with screws 1006.




## 6.8

Screw window opener 1067 to vent bottom bar 1066 with screws 1006.

STEP 7B

# 7B Fit glazing layout B

Use only the layout matching your supplied glass; check your panes against the drawing's glass table.

## Your toughened glass

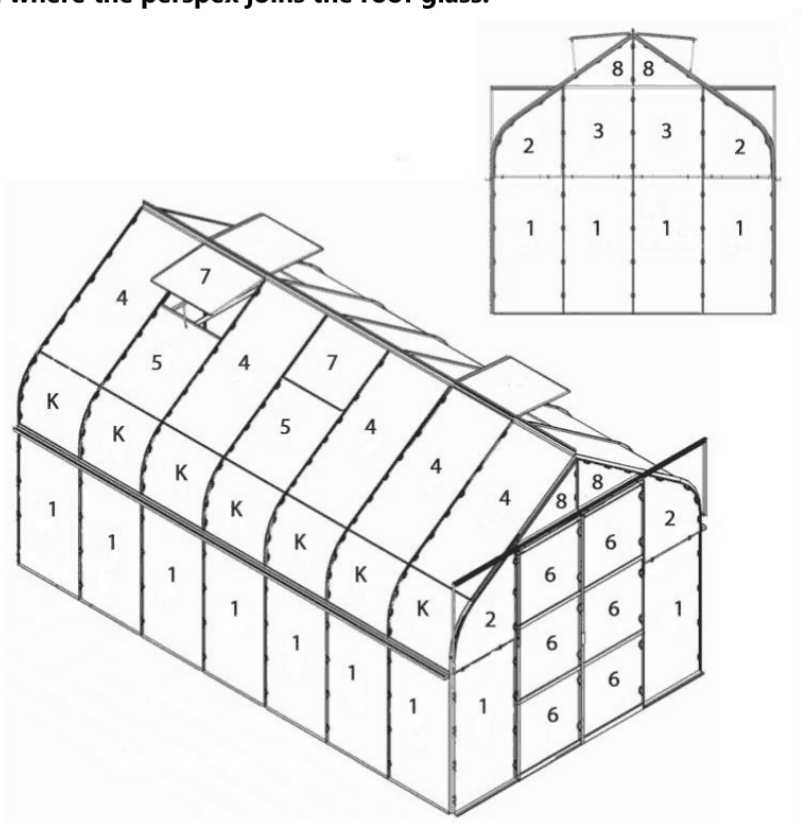
Your full toughened panes and Perspex roof panes K are tabulated below. Use the plan below for positions, not the drawing above. Join your gable glass and roof glass/Perspex with plastic H profiles, replacing glass retaining clips 1012. Vitavia advises you place spring clip 1011 directly over both H strip ends where roof glass meets Perspex.

| PANE | SIZE (MM) | SATURN 11500 |
|---|---|---|
| 1 | 610 × 1210 | 20 |
| 2 | 610 × 810 (curved) | 4 |
| 3 | 610 × 813 | 2 |
| 4 | 610 × 1261 | 10 |
| 5 | 610 × 723 | 4 |
| 6 | 610 × 610 | 6 |
| 7 | 600 × 544 | 4 |
| K | 610 × 610 (Perspex) | 14 |
| 8 | 610 × 434 × 8 | 4 |
| | **Total panes** | **68** |
| | Plastic H profiles | 20 |

# Saturn/Diana

## Glass plan for full pane toughened glass

Use plastic 'H' profiles for joining glass in gables and in assembling roof glass with perspex.
***NB*:The plastic 'H' profiles replace the Glass Retaining Clips 1012. Please note when fitting the 'H' strip the longest arm of the profile should be located inside and uppermost. It is also advisable to place a spring clip 1011 directly over the H strip at each end where the perspex joins the roof glass.**




| | Saturn | 5000 | 6700 | 8300 | 9900 | 11500 |
|---|---|---|---|---|---|---|
| 1 | 610 x 1210mm | 12 | 14 | 16 | 18 | 20 |
| 2 | 610 x 810mm (curve) | 4 | 4 | 4 | 4 | 4 |
| 3 | 610 x 813mm | 2 | 2 | 2 | 2 | 2 |
| 4 | 610 x 1261mm | 5 | 6 | 8 | 8 | 10 |
| 5 | 610 x 723mm | 1 | 2 | 2 | 4 | 4 |
| 6 | 610 x 610mm | 6 | 6 | 6 | 6 | 6 |
| 7 | 600 x 544mm | 1 | 2 | 2 | 4 | 4 |
| K | 610 x 610 mm(perspex) | 6 | 8 | 10 | 12 | 14 |
| 8 | 610 x 434 x 8mm | 4 | 4 | 4 | 4 | 4 |
| | | | | | | |
| | **Total** | **41** | **48** | **54** | **62** | **68** |
| | Plastic 'H' profiles | 12 | 14 | 16 | 18 | 20 |

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

## YOU NEED



**1011** ×508



**1020** ×1



**5012** ×12



**5090** ×14

### INSTALLER TIP

Soak the whole seal reel in hot soapy water so it softens and presses on more easily. Check the layout if a pane looks too big; it usually belongs elsewhere.

### WATCH OUT

Never force a pane; this cracks glass. If it will not seat, correct the unsquare frame first.

**Watch: Fitting the glazing rubber**

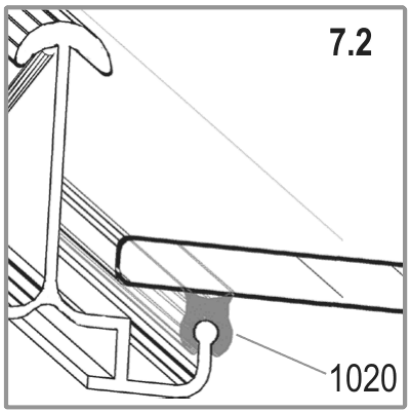
Scan with your phone camera. Vitavia video.

**Watch: Glazing the roof with toughened glass**

Scan with your phone camera. Vitavia video.

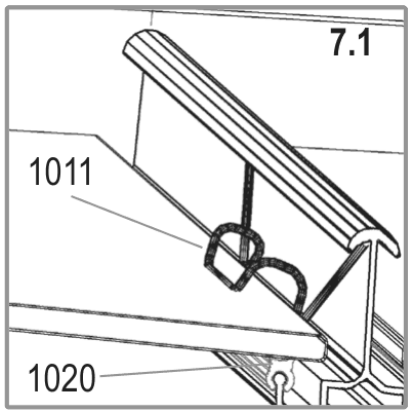
**Watch: Bar capping (toughened glass and polycarbonate)**

Scan with your phone camera. Vitavia video.




**7.2** OUTSIDE VIEW

Press rubber glazing seal 1020 onto the aluminium profiles and cut it to length. Fit all seals before you insert any glass.




**7.1** OUTSIDE VIEW

Start the roof at the eave with polycarbonate sheets 5090 over the curved section. Fix them with spring clips 1011, bend them over the curve and continue with clips 1011.

### DO THIS NOW

Glaze the sides from the bottom upwards.

LAST JOBS

# Finish and look after it

## Finish

- [ ] Anchor the greenhouse. This is essential because a greenhouse this size catches a lot of wind.
- [ ] 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 bar 1062. You will need it to order spare parts.
- [ ] Keep this guide somewhere safe.

## Looking after it

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

Drawings reproduced from the Vitavia assembly instructions (Vitavia manual 006.01.1212 (Saturn, printed as Diana)). Greenhouse Stores, greenhousestores.co.uk.