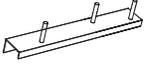


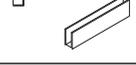
GRANDIO®

G R E E N H O U S E S

GRANDIO ELEMENT ADDITIONAL ROOF VENT KIT FOR NEW AND EXISTING GREENHOUSE CUSTOMERS

(GRA-ELEM-VENT) ELEMENT ROOF VENT PACKING LIST

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	HQC01	ROOF VENT ARM	1
	HQC02	ROOF VENT LATCH	1
	Z04, S04/ML01	ROOF VENT HARDWARE	2 EACH
	S04/ML01	COMBOS FOR 603C/W04	8
	603C	21 7/8 in / 555 mm	1

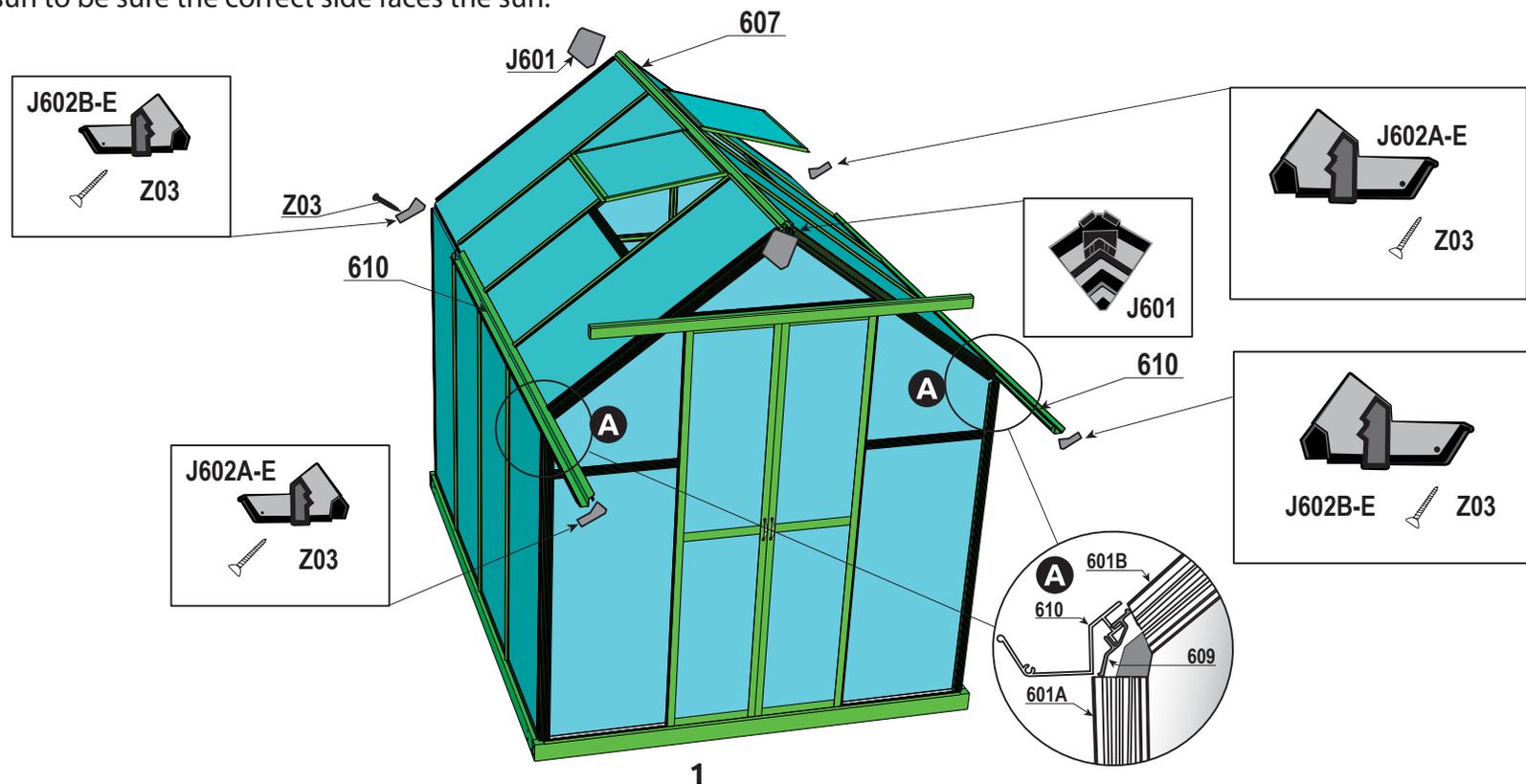
GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	615	22 3/4 in / 578 mm	1
	616	22 3/4 in / 578 mm	1
	618	19 11/16 in / 500 mm	2
	W04	CONNECTOR FOR 603	2
	Z02	SCREWS FOR ROOF VENT	5
	PLUG	ENDCAP PLUG	2

Warning: This section is only for already built greenhouses. If you are just building your greenhouse for the first time skip ahead to page 2 for roof vent assembly.

REMOVING GUTTER INSTRUCTIONS

1.1 Detach the **JG01** end cap from the **607** Ridge, and the **J602A-E** and **J602B-E** end caps from the **610** Gutters, you will only need to remove the gutter end caps on the side that you are replacing a panel with a roof vent.

1.2 Slide **610** out of **609's** groove only as many panel sections as you need to access your preferred placement, as shown in diagram **A**. Remove the **Y8** panel that you need to get to the area you are going to replace with a roof vent. Repeat on other side if you have multiple vents you are going to install. Be sure to mark all panels you remove with an "X" to identify which side should face the sun to be sure the correct side faces the sun.

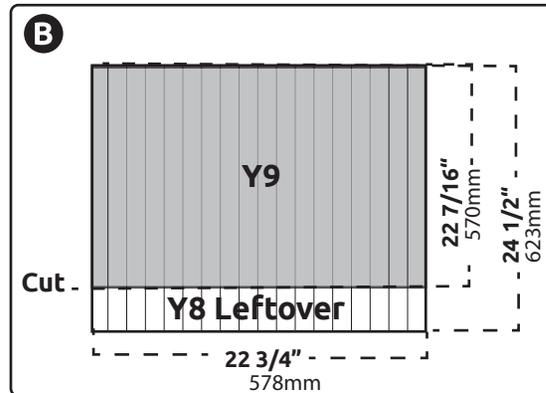
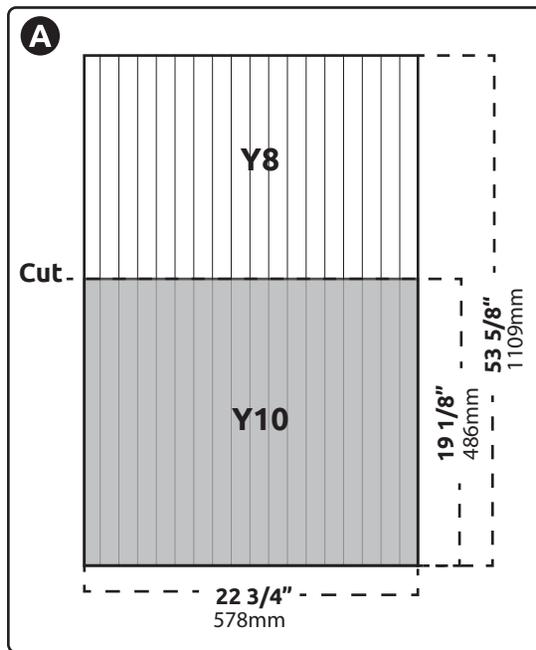


ROOF VENT ASSEMBLY

1.3 Locate your **Y8 Panel** from your original greenhouse or in the panel box if just beginning building now. You will need a utility knife, straight edge ruler or square, a tape measure and a permanent marker for the next steps. You will need to mark a small "X" on the side of the panel that should face outwards to the sun.

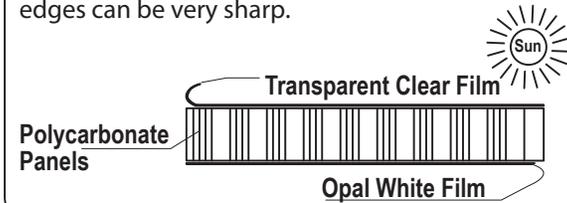
1.4 You will need to cut (1) of the **Y8 Panels** which measures **22 3/4" W x 53 5/8" H** to the dimensions of a **Y10 Roof Vent Panel** which is **22 3/4" W x 19 1/8" H**. See **A**.

1.5 You will need to cut what is left over of the **Y8 Panel** which should measure **22 3/4" W x 24 1/2" H** to the dimensions of a **Y9 Under Roof Vent Panel** which is **22 3/4" W x 22 7/16" H**. See **B**.



⚠ IMPORTANT: POLYCARBONATE PANELS ⚠

The UV-Protected side is covered with clear film and must face toward the sun. The side covered in white film will always face the interior of the greenhouse. We suggest you peel all film off completely prior to assembly and use a permanent marker to place a small "X" on the lower right corner of each panel on the clear side that faces the sun, each panel has a sticker labeling the panel number and this side always faces the sun or outward as well. **DO NOT REMOVE LABELS UNTIL YOU INSTALL PANELS.** The "X" is suggested in case you dis-assemble your greenhouse in the future so you may identify which side has the UV coating. Always use gloves when handling the polycarbonate panels as the edges can be very sharp.

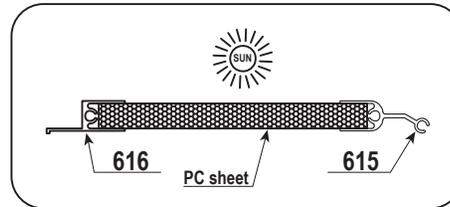
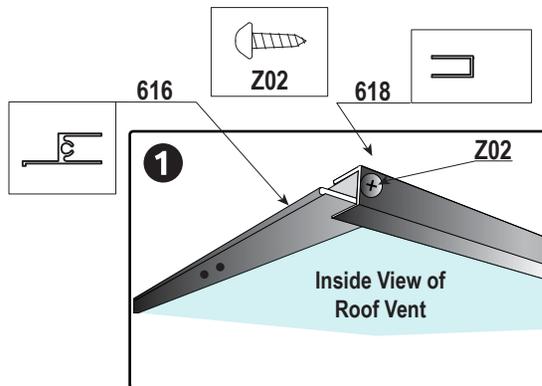
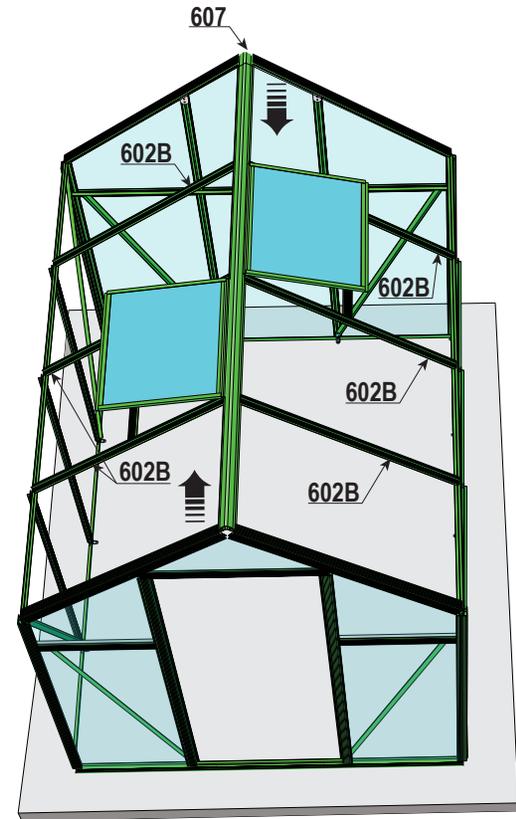


ROOF VENT ASSEMBLY CONTINUED

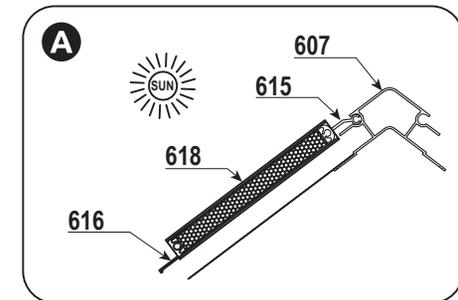
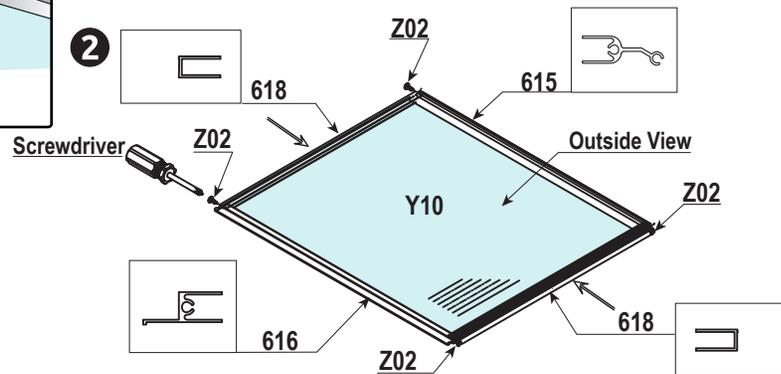
1.6 Assemble the roof window vents as shown below in **1** and **2**, using the **Z02** screws attach the **615**, **616**, and **618**'s with the **Y10** panel as shown. Be careful not to strip screw heads. Pay attention to the **Y10** panel, stickers face the sun, and that the frames are assembled according to images below.

1.7 Insert assembled window into the end of ridge of **607** and slide into position. See **A**. Window positions are your discretion, a **6x4** will have (1) roof vent and a **6x8** will have (2) roof vents.

1.8 For a **6x8** attach the additional **602B**'s as shown after all roof vents are positioned.



Note Correct Orientation

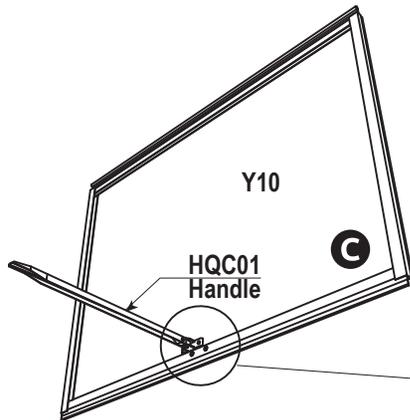
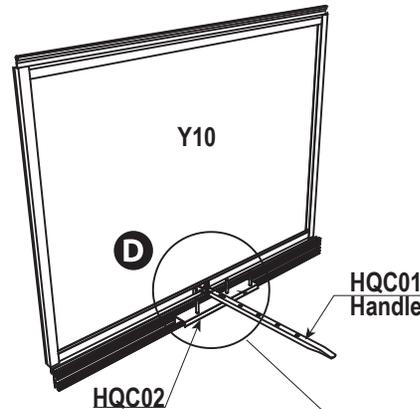
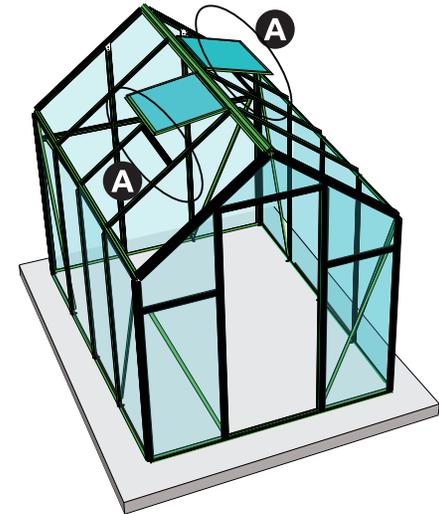
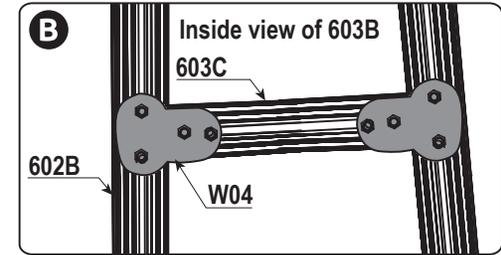
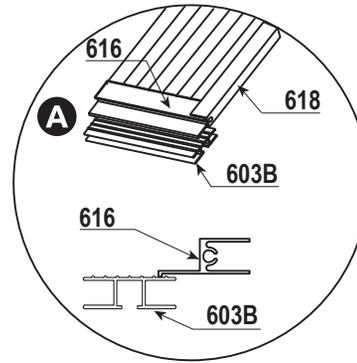


ROOF VENT ASSEMBLY CONTINUED

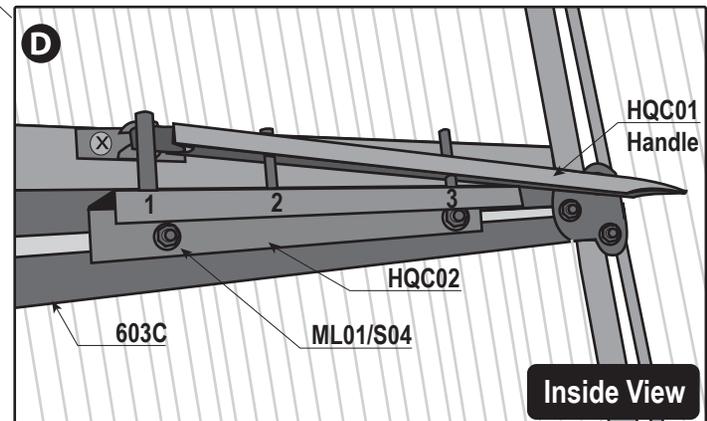
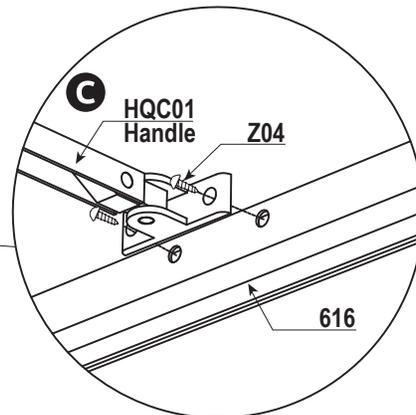
1.9 To ensure there is no gap in roof vent position **603C** as shown in **(A)**. Connect **603C** to middle of **602B**'s or between a **601B** and **602B** using **W04** brackets and **S04/ML01** combos as shown. See **(B)**.

1.10 Attach **HQC01** to **616** with the **Z04** screws see **(C)**, close roof vent and attach the handle onto **HQC02** middle pin (the first two holes of the handle to the second and third pins of **HQC02**). Then attach **HQC02** into **603C**'s track with **S04/ML01** (nuts and bolts), see **(D)**.

Note: If you are installing automatic roof vent openers follow those directions for correct installation. SAVE MANUAL OPENERS FOR WINTER SWITCH OUT.



Inside View

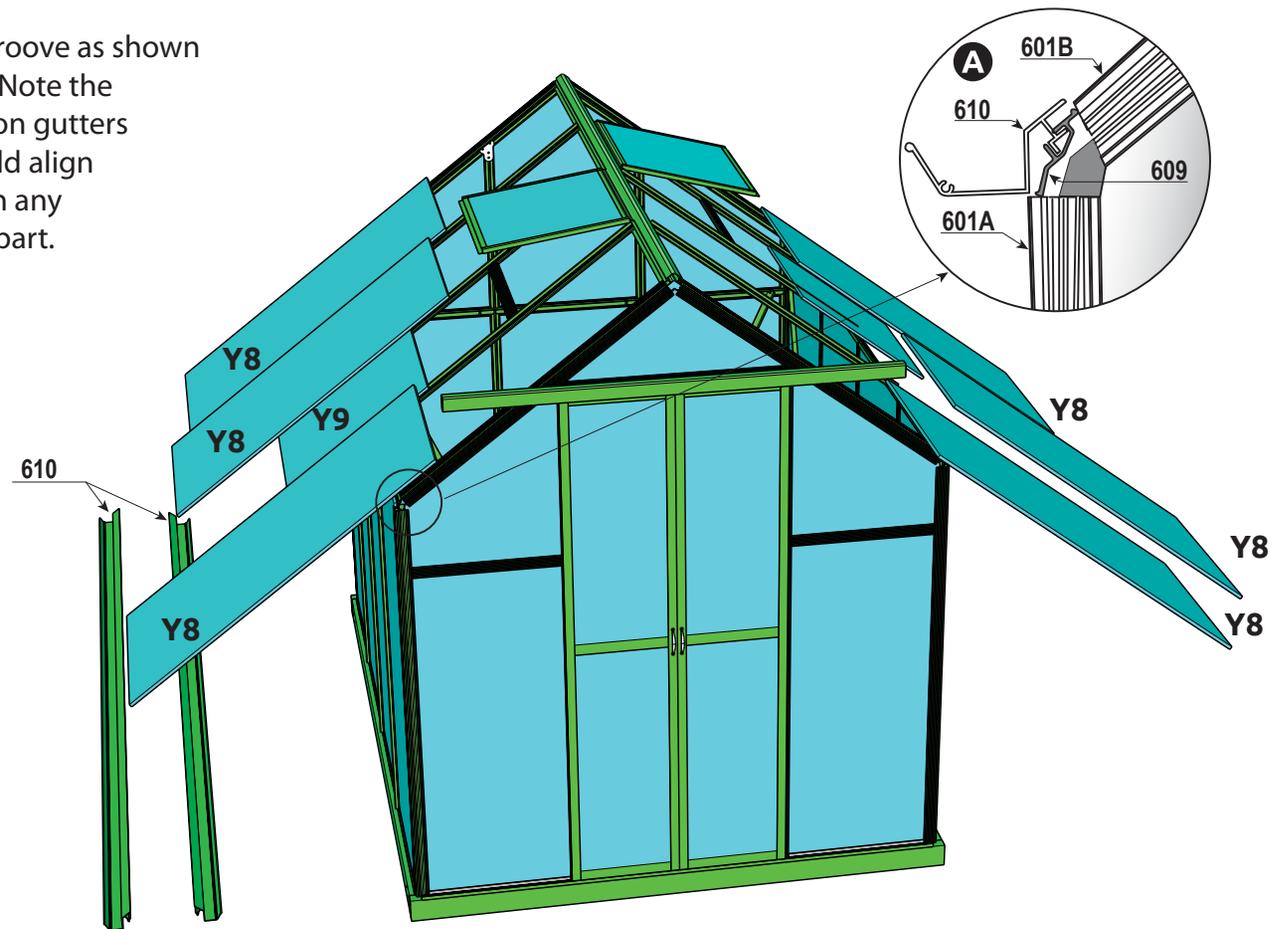
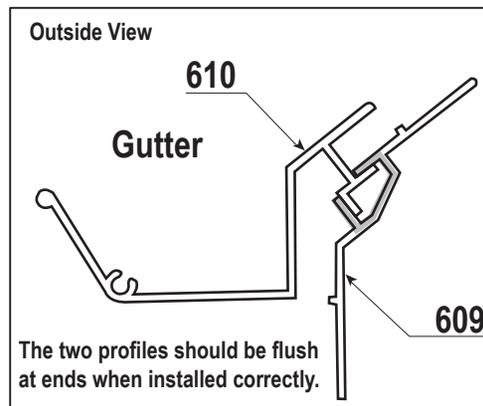


Inside View

ROOF VENT INSTALLATION

1.11 Insert polycarbonate sheets **Y8's** and **Y9's** into the lower roof of your greenhouse. Panels may slide out before gutters are in place. You may want to place a piece of tape on the panel to prevent sliding as shown in the diagram once the panels are in place.

1.12 Slide **610 Gutters** into **609's** groove as shown in diagram **A**. Repeat on both sides. Note the orientation of the gutters, the extension gutters will be at the back and the holes should align with gutter down spout hole. Reattach any other elements you may have taken apart.



END CAP INSTALLATION

1.13 For any greenhouse size if you have chosen to place a roof vent nearest the front or back you will need to locate the **ENDCAP PLUG**, you will slide into the **607** track just before placing the **J601** caps into place in next steps. See **A**.

1.14 Attach caps to the ridge and gutters on both front and back as shown below. Squeeze a small amount of rubberized silicone or construction adhesive into the ends of ridge to secure pressure fit end caps. You will need to quickly secure the **Z03's** into the **J602A-E** and **J602B-E**, see **B**. It is recommended to caulk any areas that may allow water penetration such as around gutter end caps to seal against water. It is helpful to apply a piece of tape on the outside of the endcaps so they seal tight to their intended extrusion, remove tape within 24 hours once silicone has set.

