



FLEXIGLASS BUILD MANUAL - ACCESSORIES 5-1H

FLEXISPORT, FLEXIXOVER & FLEXITRADE CANOPIES

FITTING A PRESSURE VENT - ISSA1

Note: Familiarise yourself with the instructions before you start to ensure you are clear on all aspects of the fit

SAFETY EQUIPMENT

- Hearing protection as required
- Eye protection required

TOOLS REQUIRED

- Measuring tape
- Marking pen, pencil etc.
- Drill 10mm capacity.
- Drill 500RPM 12mm capacity.
- Pneumatic reciprocating saw.
- 60mm dia hole saw.
- 5mm drill bit.
- Pop rivet gun 5mm capacity.
- 10" coarse flat file.
- Black silicon sealant

MATERIALS & PARTS REQUIRED (KIT421)

Part No.	Description	Qty.
RIVET160	Rivet alum	4
SEAL720	Thick Foam Seal FS Vent	1
VENT210	Pressure Vent Plate FS FX	1
KIT420	Kit Vent Pressure Complete	1
CAP110	Cap rivet black	4

Fitting instructions for plastic air vent to Flexisport, FlexiXover & FlexiTrade canopies



A new base plate has been designed to fit vents to Flexisport, FlexiXover & FlexiTrade canopies

- For use on both ridged and flat roof canopies
- Spacers as required to brace against the inside surface of roof ridges
- 14mm thick foam seal available to conform to canopies with rooftop ridges
- Specific hole positions to evenly distribute clamping load on upper seal



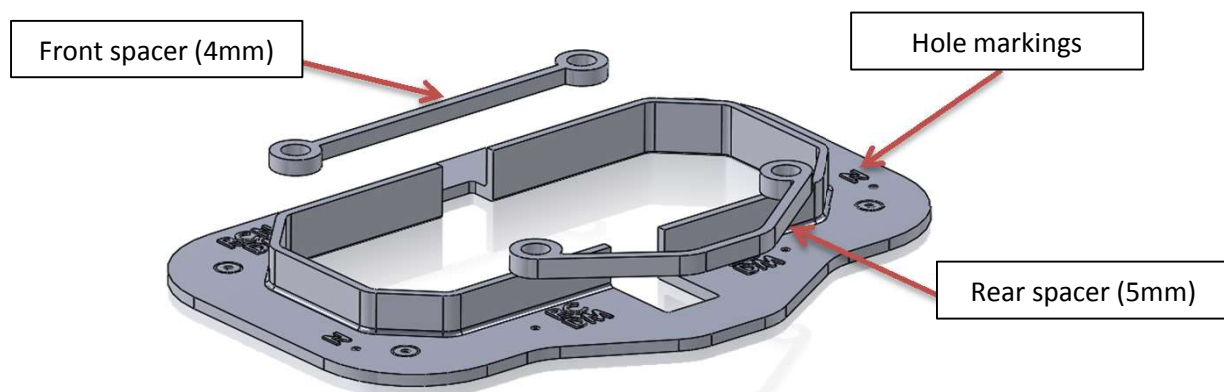
14mm soft foam seal and universal base plate with multiple drilling locations and spacers

For FlexiSport Fitment using universal base plate:

- A Ranger** – use the bent spacer at the rearward mounting holes. Discard straight spacer.
Drill 4 holes in base plate marked with an 'R'
- B Colorado** – use the bent spacer at the rearward mounting holes. Discard straight spacer.
With the spacer the base plate may sit slightly off the roof but this is necessary to ensure a good seal with the upper vent flap
Drill 4 holes in base plate marked with an 'C'
- C Navara D40** – detach and discard both spacers. The outer holes will be just inside the ridge depression but bending will be minimal and it places the clamp load on top of the ridge on the roof to get a good water seal.
Drill 4 holes in base plate marked with an 'N'
- D D-Max** - Use both spacers. The straight spacer goes at the front and the bent spacer at the rear.
Both the front and rear of the vent is in the channel so both are required.
Drill 4 holes in base plate marked with an 'DM'
- E All other applications** (Flat roof Flexisport, all Xover, Tradesman, Premier, FlexiTrade)
– detach and discard both spacers and use as per normal.
Drill 4 holes in base plate with no markings - per current std base plate

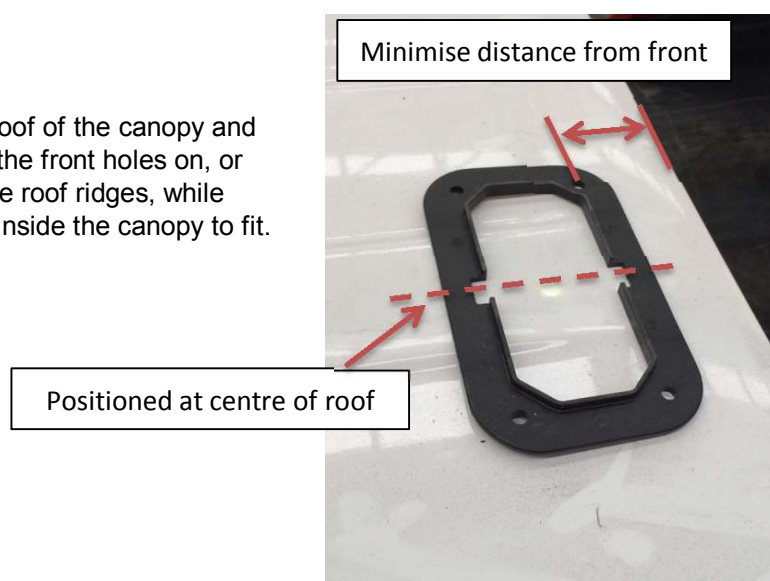
All ridged roof Flexisport canopies - Use new 14mm soft foam seal

All flat roof canopies - Use existing thin foam seal contained with KIT420



LOCATING THE VENT

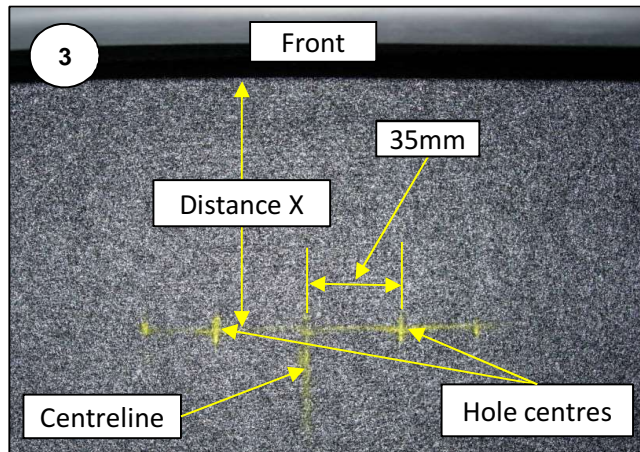
- 1** Vent is positioned centrally on the roof of the canopy and as far forward as is practical to put the front holes on, or close to the flat surface ahead of the roof ridges, while still allowing rivet gun access from inside the canopy to fit. (minimum ~80mm)



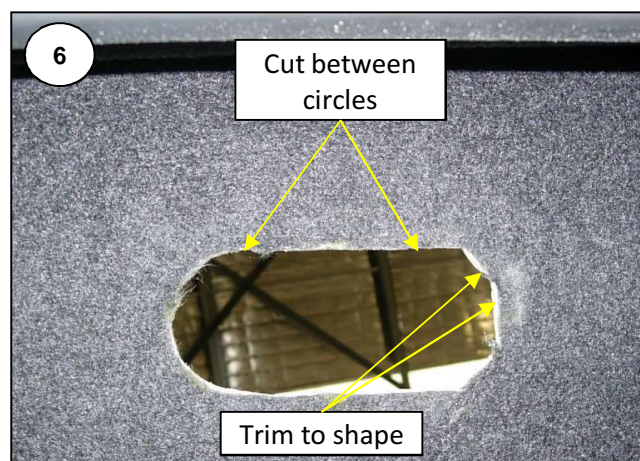
2 methods are presented below for cutting the vent opening.

- A1** Once located per above, use the backing plate to draw the shape of the vent opening on the roof.
- A2** Drill starting holes and use air hacksaw to cut the profile.
(Be careful with internal felt lining as this will tend to grab on cutting tools. It may be necessary to pull the lining away while cutting and re-attach afterwards.)

- B1** Mark the centreline and measure out 35mm on either side to set 2 hole centres keeping them parallel with the front of the roof.



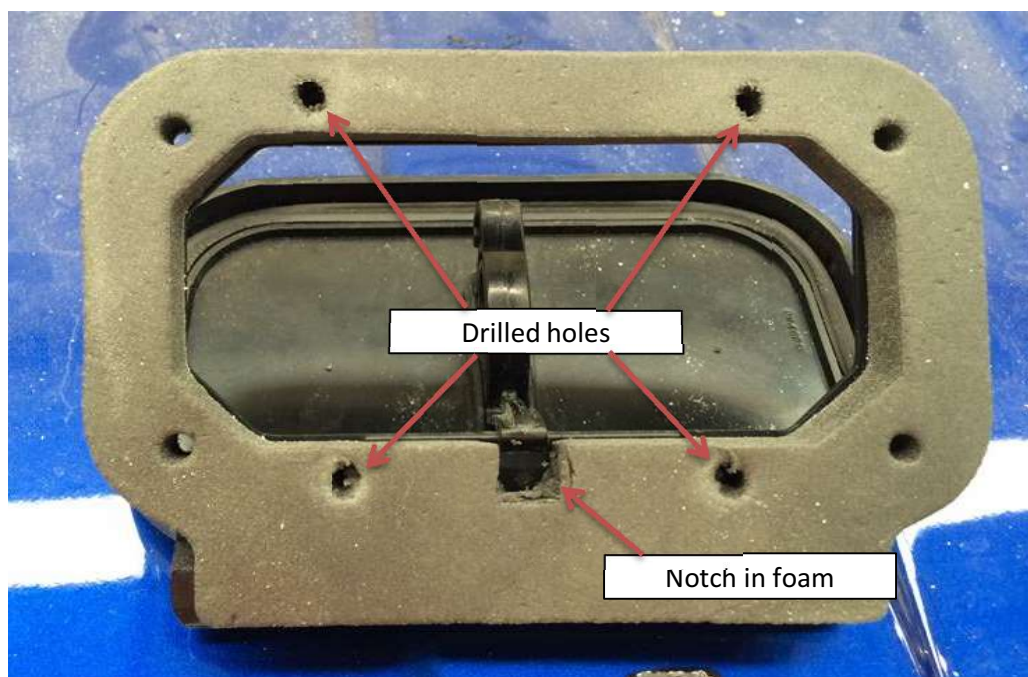
- B2** Drill small pilot holes on the two centre marks made previously (something smaller than 3mm is recommended).
- B3** Use gentle pressure to open out the pilot hole with the drill of the 60mm hole saw. Continue with gentle pressure to make contact with the felt lining (if in place) **See ILL 5** and cut through the lining.
- B4** Increase the pressure once the lining is cut and cut through the fibreglass.
Repeat with other hole centre
- B5** Use the reciprocating saw or a diamond cut-off wheel to make an oval hole measuring about 170 X 60mm.
- B6** Use the backing plate as a template and the shape of the hole to fit the lip of the backing plate saw and file to modify the into. See **ILL 6**.



- 2 Once the opening is sized to allow the backing plate lip to fit inside, use the plate to mark and drill the four fixing holes. **See below for positioning and final hole shape:**



- 3 Also use the backing plate as a guide to drill the mounting holes through the thick foam and vent base (non standard hole positions) - be careful not to drill through the vent upper flap!. The foam seal may need square notches cut by hand to match the cutout shape and ensure clearance to the vent moving parts



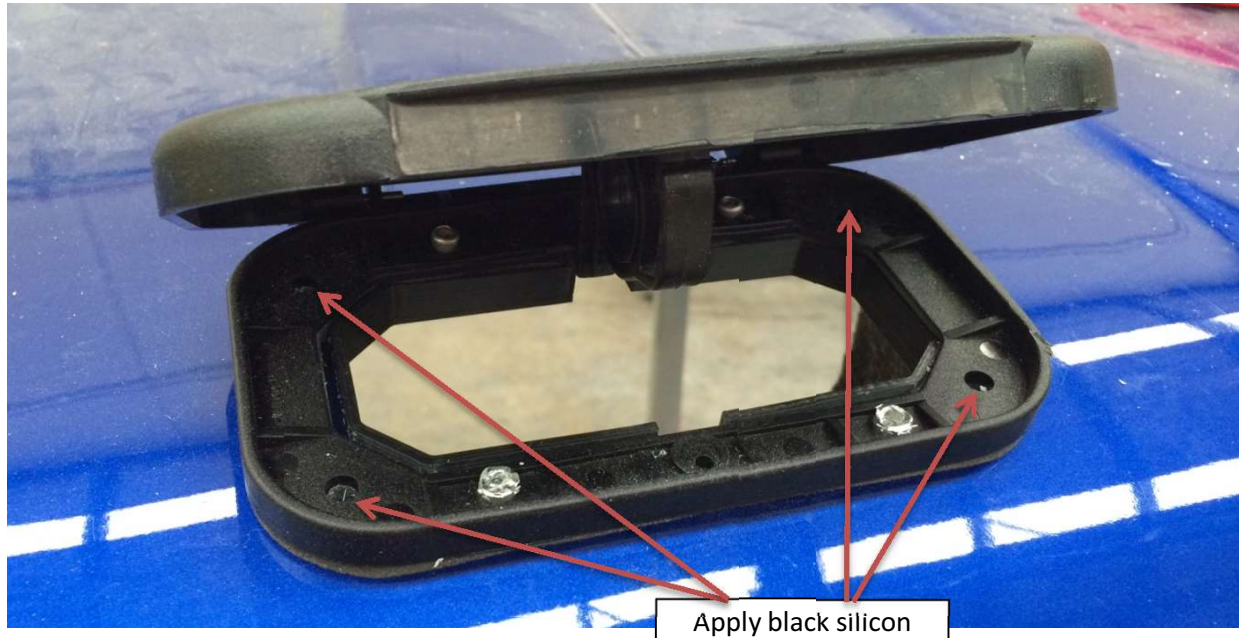
Summary of
Base plate configurations:

	R-Spacer (5mm)	F-Spacer (4mm)	Hole markings	Foam
Ranger	Y	-	R	14mm Soft
Navara D40	-	-	N	14mm Soft
Colorado	Y	-	C	14mm Soft
D-Max	Y	Y	DM	14mm Soft
All Flat roof	-	-	No mark	Std thin

- 4 Test fit the vent to ensure all operations are correct, assemble onto the canopy with the thick foam between the vent base plate and the roof and any applicable spacers.

Rivet the unit in place - **Also see note below on rivet types**

Ensure the foam is compressed well front and rear and conforms to the shape of the roof fully around the sides of the ridge. The flared ends of the rivets may need filing to allow the vent to close completely



- 5 Apply black silicon to remaining holes in vent upper
- 6 Apply a small amount of black silicone to each rivet head inside the canopy and push the stem of the CAP110 into the centre hole until it seats and sticks to the silicone.

NOTE ON RIVET TYPE:

Some **KIT420** have been supplied with **RIVET220 (Stainless steel)** instead of **RIVET160 (Alloy)**. If the RIVET220's are supplied a 5mm washer must be fitted into the vent base plate before the rivet is pulled down. If this is not done the vent will not pull down and compress the gasket, there is also a risk that the plastic will split out from the rivet hole.

ILL 1 shows how to recognise the two rivets by the shapes of the "nail heads".

ILL 2 shows the use of a **WSH260** with the **RIVET220**.

