

# THE SHEVILATOR®

Extremely low-profile high performance static roof ventilator

## DATA SHEET

### Overview

The revolutionary design of the SHEVILATOR® prevents water ingress whilst retaining a sleek low profile, lower than any other static ventilator. Its high percentage of open area to throat area makes it a prime choice for buildings requiring large ventilation areas.

The SHEVILATOR® allows continuous natural ventilation. It prevents smoke, heat & stagnant air from from accumulating under roof spaces.



### Available sizes

Throat Length:	Any dimension between 600 – 2000 mm
Throat Width:	Increments of 60 mm between 600 – 2100 mm
Frame Length:	Throat + 100 mm
Frame Width:	Throat + 182 mm
Overall Flange Length:	Throat + 400 mm
Overall Flange Width:	Throat + 700 mm

### Onsite Assembly

The innovative flat packable design allows considerable savings on transport and storage costs. Other ventilators are assembled in a

factory, and at substantial expense, crated. This means they become bulky, take up large load platform areas, and hence inherent very high transport costs.

The precision of the fabricated SHEVILATOR® parts ensures simple, fast onsite assembly.

Components are delivered to site and assembly is carried out on the roof. The SHEVILATOR® is clipped together by hand within 10 – 15 minutes per unit.

### Security

A high level of security is provided as it is all but impossible to break through the throat of the ventilator. Of course, fixation into the roof purlins is required on each corner, but the screw heads are neither visible nor accessible, which means that removal of the ventilator is a major challenge against attempted break ins.

With the SHEVILATOR® burglar bars are not required due to the strong and dense matrix of close-fitting parts.

# Performance



- Aerodynamic shape enhances extraction performance.
- Installation angle 4° from horizontal and steeper.
- Field tested since 2017, in the coastal region Western Cape, known for its combination of wind and rain.
- No water leaks have been reported. In addition, extensive in-house testing has been carried out with no failures recorded.

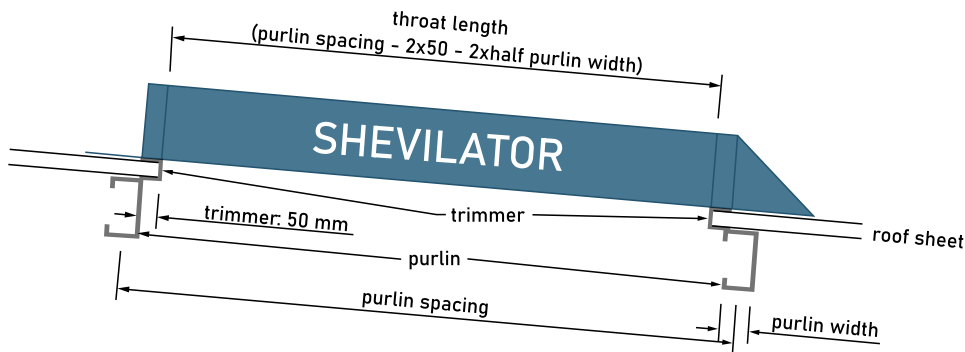
## SHEVILATOR SIZE SELECTOR

		Throat Width (mm)																			
		1200	1260	1320	1380	1440	1500	1560	1620	1680	1740	1800	1860	1920	1980	2040	2100				
		Width Code**																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
Throat length (mm)	Purlin spacing*	Length Code	825	1000	10	0,74	0,78	0,82	0,85	0,89	0,93	0,97	1,00	1,04	1,08	1,11	1,15	1,19	1,23	1,26	1,30
			925	1100	11	0,83	0,87	0,92	0,96	1,00	1,04	1,08	1,12	1,17	1,21	1,25	1,29	1,33	1,37	1,42	1,46
			1025	1200	12	0,92	0,97	1,01	1,06	1,11	1,15	1,20	1,25	1,29	1,34	1,38	1,43	1,48	1,52	1,57	1,61
			1125	1300	13	1,01	1,06	1,11	1,16	1,22	1,27	1,32	1,37	1,42	1,47	1,52	1,57	1,62	1,67	1,72	1,77
			1225	1400	14	1,10	1,16	1,21	1,27	1,32	1,38	1,43	1,49	1,54	1,60	1,65	1,71	1,76	1,82	1,87	1,93
			1325	1500	15	1,19	1,25	1,31	1,37	1,43	1,49	1,55	1,61	1,67	1,73	1,79	1,85	1,91	1,97	2,03	2,09
			1425	1600	16	1,28	1,35	1,41	1,47	1,54	1,60	1,67	1,73	1,80	1,86	1,92	1,99	2,05	2,12	2,18	2,24
			1525	1700	17	1,37	1,44	1,51	1,58	1,65	1,72	1,78	1,85	1,92	1,99	2,06	2,13	2,20	2,26	2,33	2,40
			1625	1800	18	1,46	1,54	1,61	1,68	1,76	1,83	1,90	1,97	2,05	2,12	2,19	2,27	2,34	2,41	2,49	2,56
			1725	1900	19	1,55	1,63	1,71	1,79	1,86	1,94	2,02	2,10	2,17	2,25	2,33	2,41	2,48	2,56	2,64	2,72
1825	2000	20	1,64	1,72	1,81	1,89	1,97	2,05	2,14	2,22	2,30	2,38	2,46	2,55	2,63	2,71	2,79	2,87			

Open Area (m<sup>2</sup>) = 0.75 X THROAT AREA \*\*\*

\* The relation between the throat length and purlin spacing is determined as shown below. The table is for typical purlins with a width of 75 mm. For alternatives or purlin spacings not listed, contact the supplier. For the centre orange cell example: 1500 - 2x50 - 2x37.5 = 1325 mm.

## SIDE SECTION



\*\* Available throat widths are in increments of 60 mm. The width code relates to the number of increments. For the centre orange cell example: 27x60 = 1620 mm.

\*\*\* The throat is the opening that is cut in the roof sheet. The throat area is calculated by multiplying the throat length by the throat width. For the orange centre cell example: 1.325x1.62 = 2.15 m<sup>2</sup>. To determine the open area, multiply the throat area by 0.75. For the centre orange cell example: 1.325x1.62 x 0.75 = 1.61 m<sup>2</sup>.

**MODEL NUMBER:** The model number is Length Code-Width Code. For the centre orange cell example: 15-27.

### Materials

The SHEVILATOR® may be fabricated from most popular nominal 0.5 mm thick sheet steel such as Galvanised, Zinalume, Chromadek, Colorbond, Colourplus. This means that whatever the choice of roof sheet, a perfect colour match can be achieved.

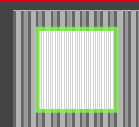
### Options



Colour Matching



Bird / Insect Screens



Trimmers



Flange Modifications

Popular sizes for 75mm thick purlins. For others, please enquire.

**Warranty** The SHEVILATOR® is guaranteed not to leak water if correctly installed and assembled. A corrosion warranty is offered dependent upon the type of material selected. Certain manufacturers of treated sheets offer up to 15-year corrosion warranties and 10 years within 1 km of the sea.