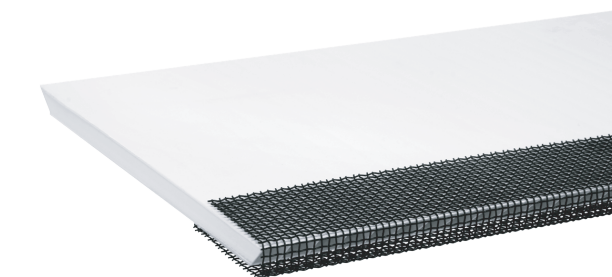


Passive Roof Ventilation Device

Steel and Tile Roofing

What is Cor-Vent?

Cor-Vent® is a passive ventilation device for metal and tile roofing compliant with NCC 2022 ABCB Housing Provisions Part 10.8.3 & Vol 1 F8D5 requirements. Designed to allow passive airflow at both low and high level.



Cor-Vent® 8K BAL & Fire Rate Solutions

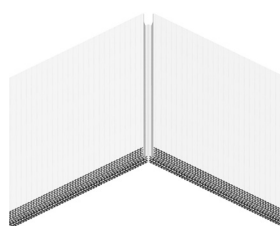
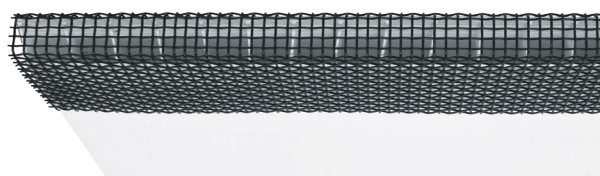
- Corex has developed a BAL rated solution
- Compliant to AS3959 Clause 3.6 (BAL-LOW to BAL-29)
- Supplied with a durable coated external aluminium ember mesh with less than 2mm apertures
- Mesh profile design incorporates additional open area to meet roof ventilation requirements.

Features

- Applies to DtS ventilation requirements for climate zones 6,7, and 8
- Designed for roof pitch ranging from 15 to 75 degrees
- Cor-Vent® at the low level doesn't require fascia height alterations.
- Can be used with roof level insulation such as membranes (sarking) and blanket and foil
- BAL tested with Aluminium external mesh
- Includes a design registered, angled cut edge allowing to maintain airflow when installed under membranes
- Light weight and engineered from Corflute®
- Made from recyclable polypropylene(PP)
- Easy to install and offered in lengths up to 2.5 meters
- Can be supplied in a folded version for easy transportation
- Can be screwed or bonded to battens or rafters

Roof Space Ventilation Requirements

Roof Pitch	Ventilation Openings
≥ 15° to < 75°	7000 mm²/m provided at the eaves and 5,000mm²/m at high level



Find out more 

PRODUCT INFORMATION

Corex Plastics (Australia) Pty. Ltd.

261 Frankston Dandenong Road, Dandenong 3175 AUSTRALIA
Phone: +61 3 9238 1300 | Email: building@corex.com.au

* All information is to the best of our knowledge, true and correct. However, as many factors outside our knowledge and control can effect the products, no warranty can be given or implied in respect of such information and no information should be construed as a warranty in relation to the product or its use.

PROUDLY
Australian 

Contact Us:
hello@corex.com.au

Find out more
corex.com.au

Dimensions

PRODUCT	OPENING (MM)	WIDTH (MM)	LENGTH (MM)	MIN FREE OPEN AREA (MM ²)
Cor-Vent® 8K 200	10	200	2500	8,050
Cor-Vent® 8K 250	10	250	2500	8,050
Cor-Vent® 8K BAL 200	10	200	2500	8,050
Cor-Vent® 8K BAL 250	10	250	2500	8,050
Cor-Vent® 8K S200 (Slim)	8	200	2500	7,050
Cor-Vent® 8K S250 (Slim)	8	250	2500	7,050
Cor-Vent® 8K BAL S200 (Slim)	8	200	2500	7,050
Cor-Vent® 8K BAL S250 (Slim)	8	250	2500	7,050
Cor-Vent® 5K 100 (High Level)	6	100	1200/2500	5,050
Cor-Vent® BAL Ridge Vent (High Level)	1	320	2500	5,000-25,000

Table Notes:
Cor-Vent® 8K exceeds Dts 7,000mm²/m installed along the longest horizontal dimension of the roof.
Cor-Vent® 5K exceeds Dts 5,000mm²/m can be installed under ridge caps or apron flashings.

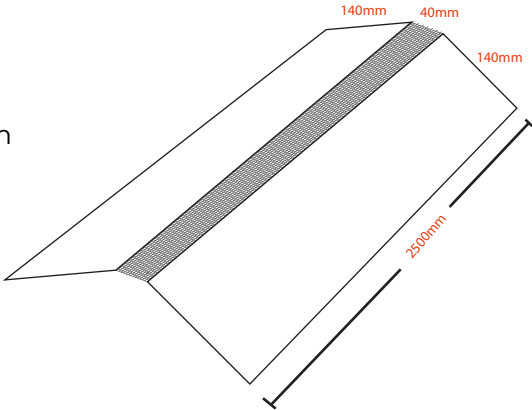
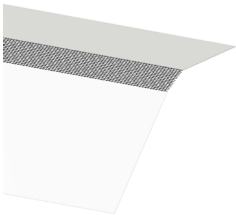
Technical Data

CRITERIA	TEST METHOD	VALUE
Compression Strength*	AS1301.429S	Avg 600kPa
Melting Temperature	ASTM3418	165°C
Max. Working Temperature	N/A	95°C
Ember Protection (BAL)	AS3959	2mm Al wire mesh

*Not applicable to Cor-Vent® Ridge (High Level)

Cor-Vent® Ridge (High Level)

- BAL 29 compliant
- 2500mm L x 320mm (Rolls/Flat)
- Supplied flat, but flexible to suit different angles
- Positioned on top of sarking
- Open vented area - 7000mm²/m - 25,000mm²/m



Vent Device Calculations

Practical example for Hip Roof (Pitch 22°) using Cor-Vent®

- Roof Pitch = 22° Longest Horizontal Dimension = 20m
- Ventilation opening required – Low Level

NCC2022 Roof Ventilation Requirement Calculations

Calculate the minimum ventilation opening area requirements for low and high level. The vent device calculations must meet or exceed these values

- Low level: $2 \times 7000\text{mm}^2 \times 20\text{m}$ (longest horizontal dimension of the roof) = $280,000\text{mm}^2$
- High level: $1 \times 5000\text{mm}^2 \times 20\text{m}$ (longest horizontal dimension of the roof) = $100,000\text{mm}^2$

Cor-Vent® 8K BAL & Fire Rate Solutions

- Cor-Vent® 8K provides an open area of $8,050\text{mm}^2/\text{m}$
- Open area with Cor-Vent® 8K:
 $20\text{m} \times 2 \times 8050\text{mm}^2 = 340,000\text{mm}^2$
- Exceeds the minimum requirement of $280,000\text{mm}^2$

*Cor-Vent 8K (Slim) also exceeds minimum requirement of $280,000\text{mm}^2$
Open area calculated @ $20\text{m} \times 2 \times 7050\text{mm}^2 = 282,000\text{mm}^2$

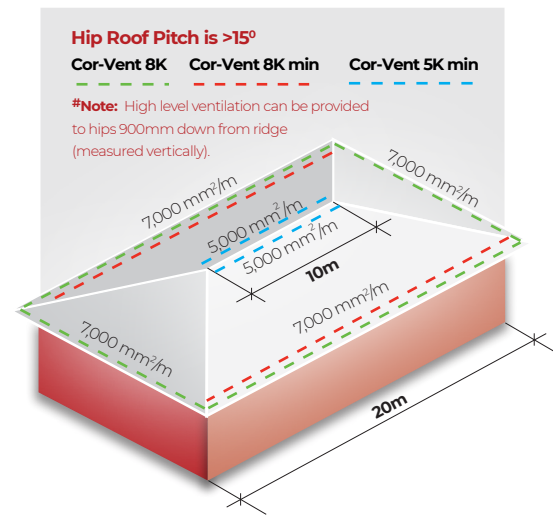
Cor-Vent 5K (High Level)

- Cor-Vent 5K provides an open area of $5,050\text{mm}^2/\text{m}$
- Open area with Cor-Vent® 5K:
 $2 \times 10\text{m} \times 5050\text{mm}^2 = 101,000\text{mm}^2$
- Exceeds the minimum requirement of $100,000\text{mm}^2$

Installation Guidance

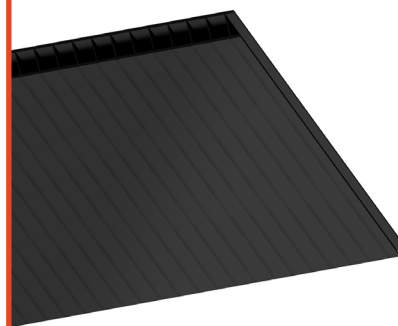
Cor-Vent® 8K Low Level Ventilation

- Low level ventilation for 15-75 degree roofing does not require fascia height change
- Roofing sheet fastener length should be checked to ensure secure fixing to structure
- Fix vent device with low profile headed fasteners, drive fixing below vent surface (coating class 3) at metre intervals
- Cor-Vent® must be installed with branding at top. This ensures the ventilation pathway is maintained with membranes
- Weather proofing of structure must be maintained when installed
- Ensure to use BAL and fire rated solutions when installing in bushfire zones
- In marine zones it is recommended to use BAL to restrict salt aerosol migration into the roof space
- Cor-Vent® can be cut to size with standard cutting tools (e.g. tin snips)
- Membrane is laid over the Cor-Vent®.



Cor-Vent® 5K High Level Ventilation

- Temporary fix vent device location to either cladding or flashing (e.g. double sided tape)
- Roofing fastener length should be checked to ensure secure fixing to structure
- Ensure membrane or blanket and foil is terminated at the ridge to maintain ventilation pathway
- Weather proofing must be maintained when installed
- 5K BAL solution (see fig. 6)



Corex Plastics (Australia) Pty. Ltd.

261 Frankston Dandenong Road, Dandenong 3175 AUSTRALIA
Phone: +61 3 9238 1300 | Email: building@corex.com.au

* All information is to the best of our knowledge, true and correct. However, as many factors outside our knowledge and control can effect the products, no warranty can be given or implied in respect of such information and no information should be construed as a warranty in relation to the product or its use.

PROUDLY
Australian

Contact Us:
hello@corex.com.au

Find out more
corex.com.au

Fig. 1

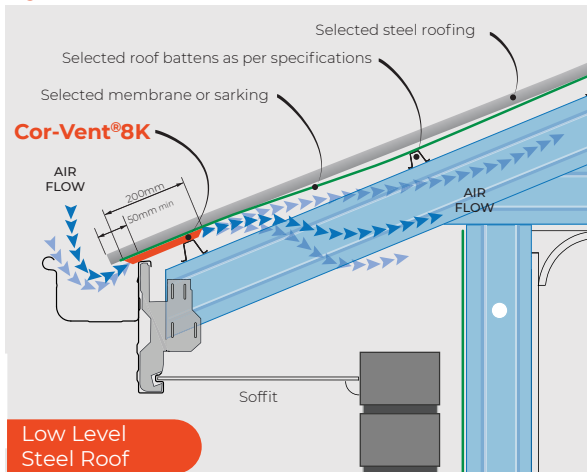


Fig. 2

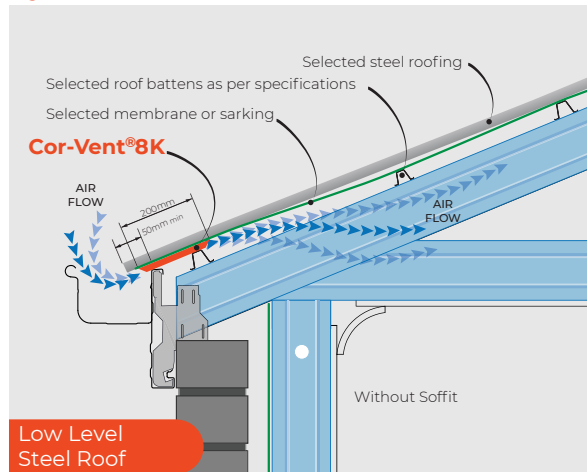


Fig. 3

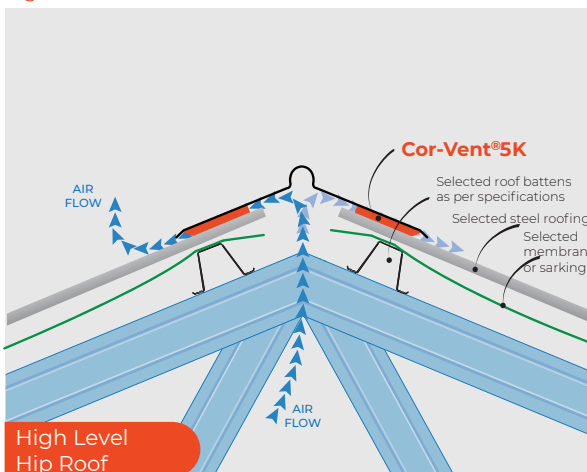


Fig. 4

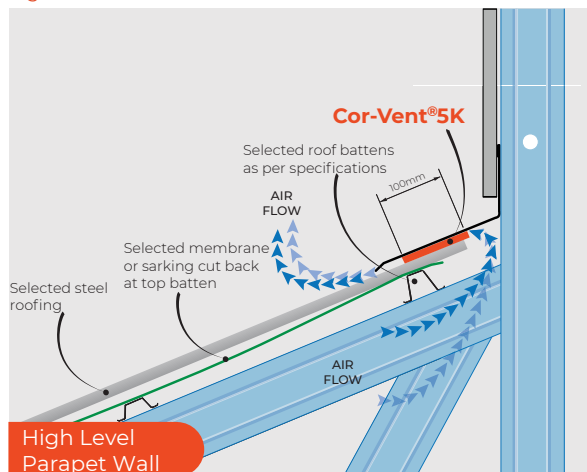


Fig. 5

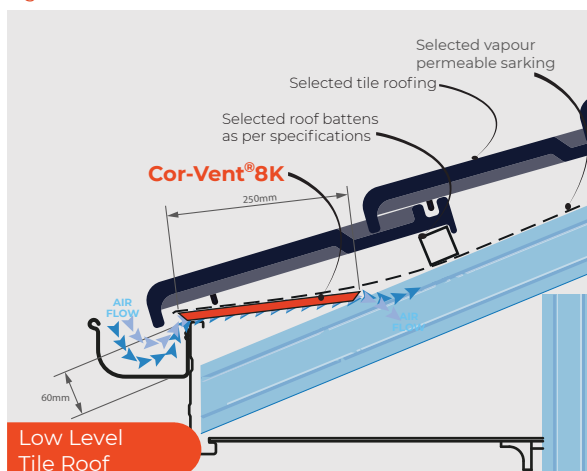
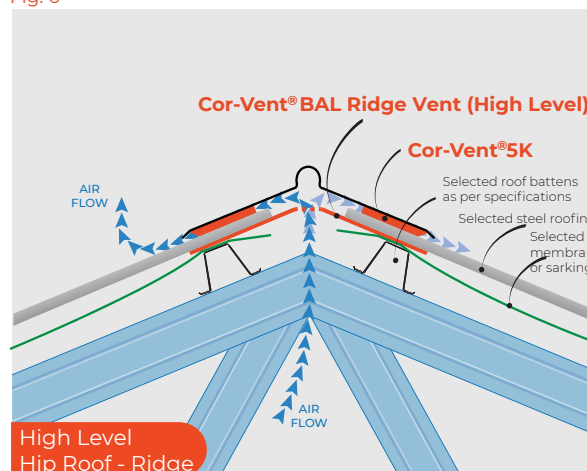


Fig. 6



PRODUCT INFORMATION

Corex Plastics (Australia) Pty. Ltd.

261 Frankston Dandenong Road, Dandenong 3175 AUSTRALIA
Phone: +61 3 9238 1300 | Email: building@corex.com.au

* All information is to the best of our knowledge, true and correct. However, as many factors outside our knowledge and control can effect the products, no warranty can be given or implied in respect of such information and no information should be construed as a warranty in relation to the product or its use.

PROUDLY
Australian

Contact Us:
hello@corex.com.au

Find out more
corex.com.au