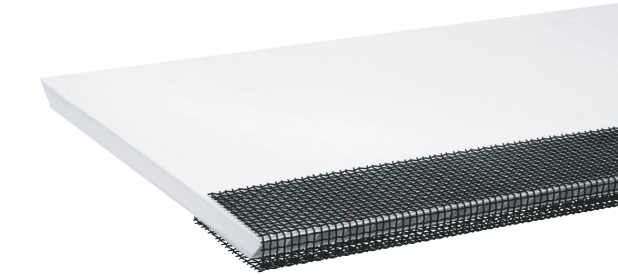


Passive Roof Ventilation Device

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

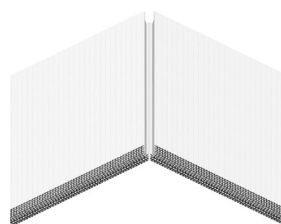
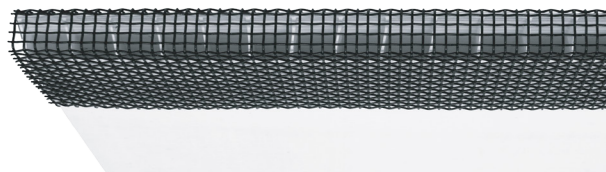
- Corex has developed a BAL rated solution
- Compliant to AS3959 Clause 3.6 (BAL-LOW to BAL-29)
- Supplied with a durable coated external aluminium ember mesh with less than 2mm apertures
- Mesh profile design incorporates additional open area to meet roof ventilation requirements.

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 

Corex Plastics (Australia) Pty. Ltd.

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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.

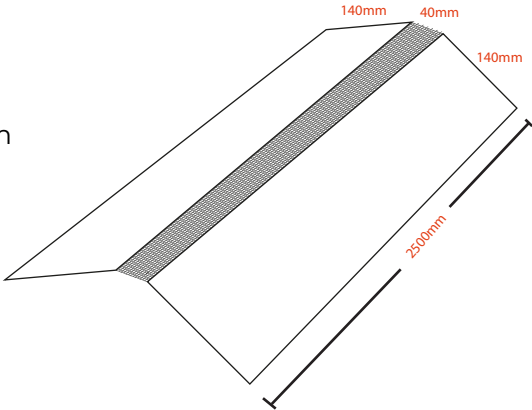
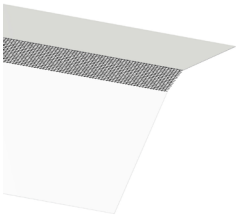
Technical Data

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 SS 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



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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 @ $20\text{m} \times 2 \times 7050\text{mm}^2 = 282,000\text{mm}^2$

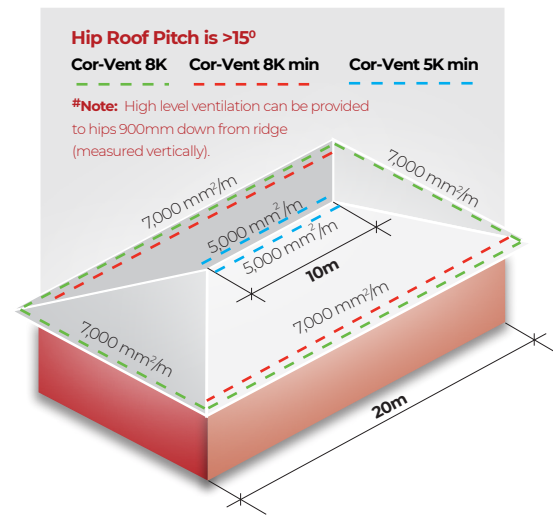
Cor-Vent 5K (High Level)

- 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

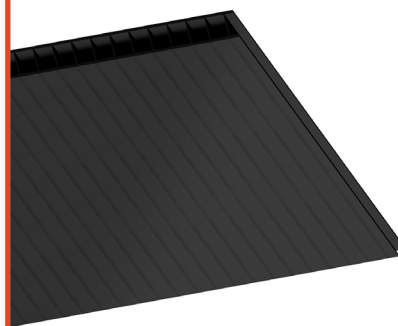
Cor-Vent® 8K Low Level Ventilation

- 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)



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Fig. 1

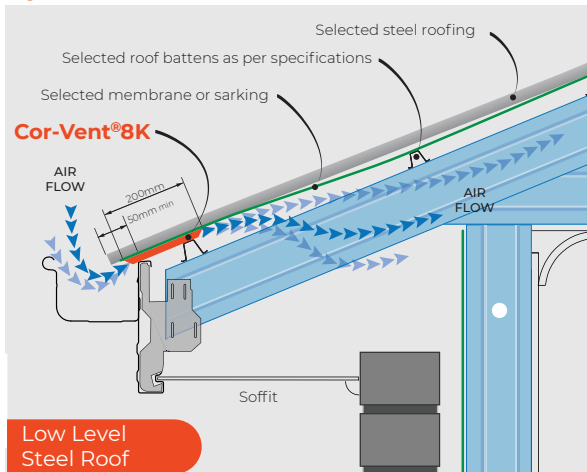


Fig. 2

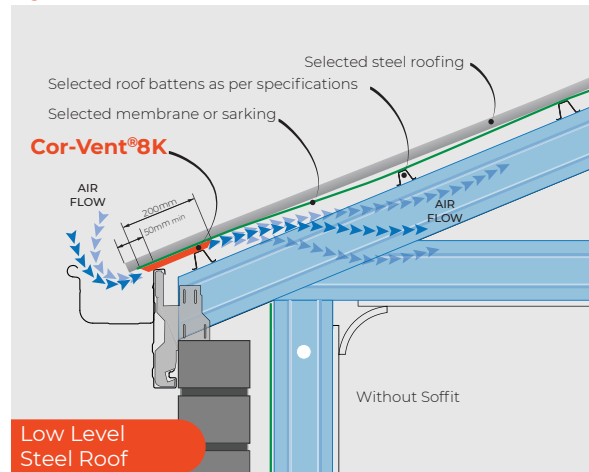


Fig. 3

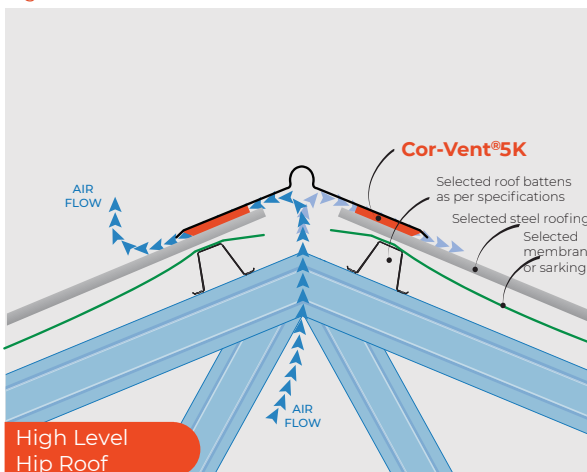


Fig. 4

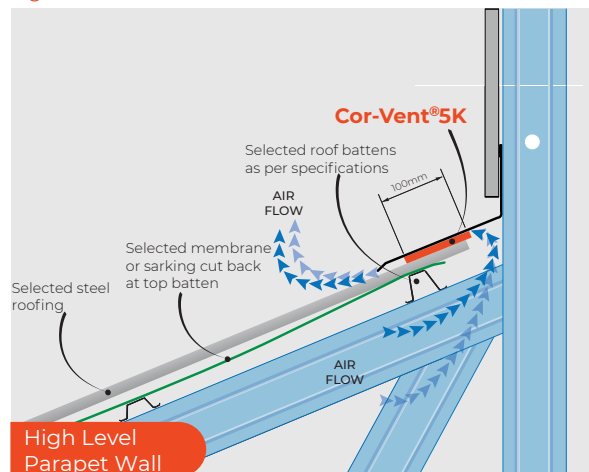


Fig. 5

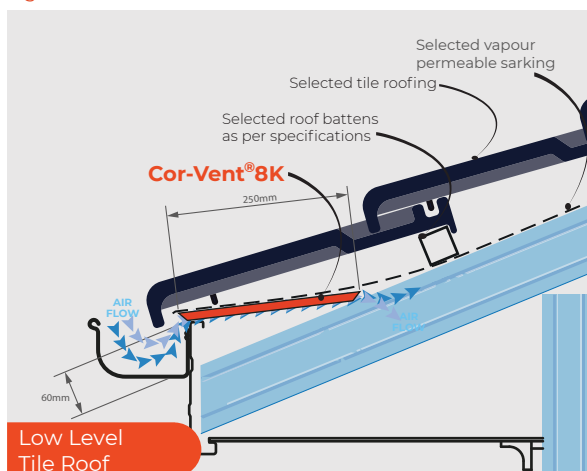
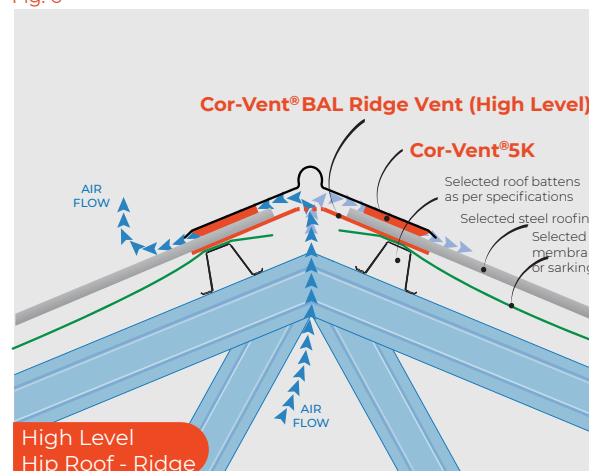


Fig. 6



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