

Passive Roof Ventilation and anti-ponding device.

What is Cor-Vent®?

Cor-Vent® is a passive ventilation device for metal roofs complying to NCC2022 ABCB Housing Provision Part 10.8.3 & Vol 1 F8D5 requirements. The Cor-Vent® ventilation devices are designed to allow passive airflow at both the low level and high level.

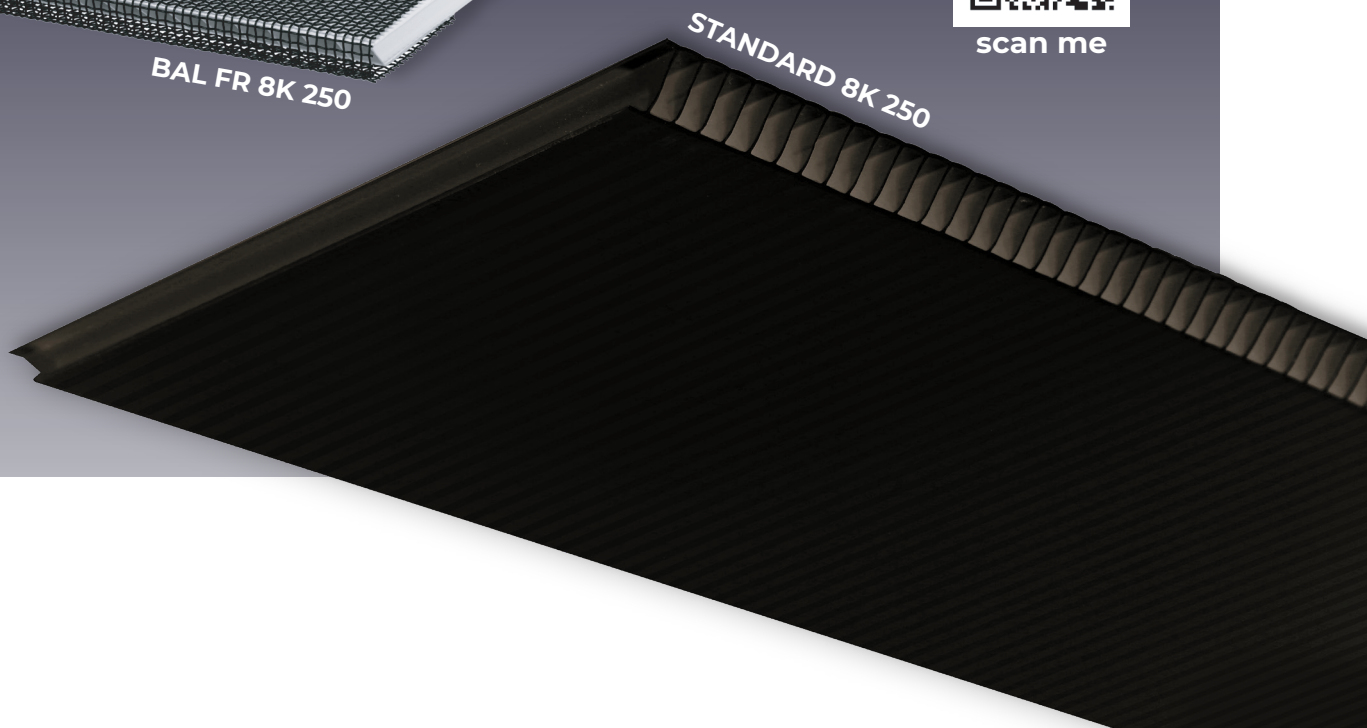
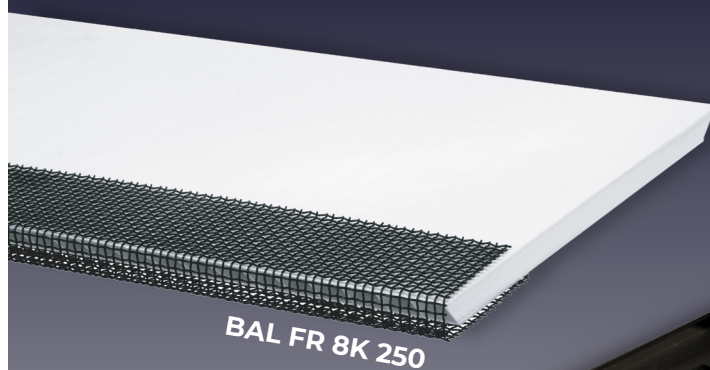
Features

- 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 FR tested to 1530.3 (BAL 12.5 ~ BAL 29) with Aluminium external mesh**
- Includes a design registered, angled cut edge allow 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 screwed or bonded to battens or rafters.

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Technical Data

Criteria	Test Method	Value
Compression strength	AS1301.429S	Min 600kPa
Melting Temperature	ASTM3418	165°C
Maximum working temperature	N/A	90°C
Spread of Flame Index (range 1-10) **	AS1530.3	0
Smoke developed index (range 1-10) **	AS1530.3	3
Heat evolved index (range 1-10) **	AS1530.3	0
Ember protection **	AS3959	2mm aperture stainless steel wire mesh

**Cor-Vent® 8K FR BAL 200

Roof Space Ventilation Requirements

Roof Pitch	Ventilation Openings
≥ 15° to < 75°	7000 mm ² /m provided at the eaves and 5,000mm ² /m at high level

Dimensions

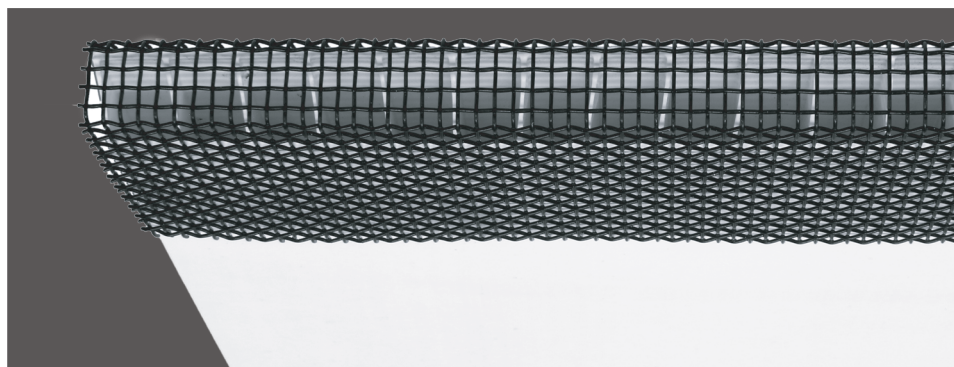
Product	Thickness (mm)	Width (mm)	Length (mm)	Weight (mm)	Ventilation Minimum Free Open Area
Cor-Vent® 8K 250	10	250	2500	0.9	8050
Cor-Vent® 8K FR BAL 250	10	250	2500	1.0	8050

Table Notes:

Cor-Vent® 8K exceeds DTS 7,000mm²/m installed along the longest horizontal dimension of the roof.

Cor-Vent® 8K BAL FR & Fire Rate Solutions

- Corex has developed a BAL rated fire-retardant 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.
- Corex BAL/FR grade products have been validated to AS1530.3.
 - Spread of flame index 0
 - Smoke developed index 3
 - Heat evolved index 0
- Mesh profile design incorporates additional open area to meet roof ventilation requirements.



Cor-Vent® - Example 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

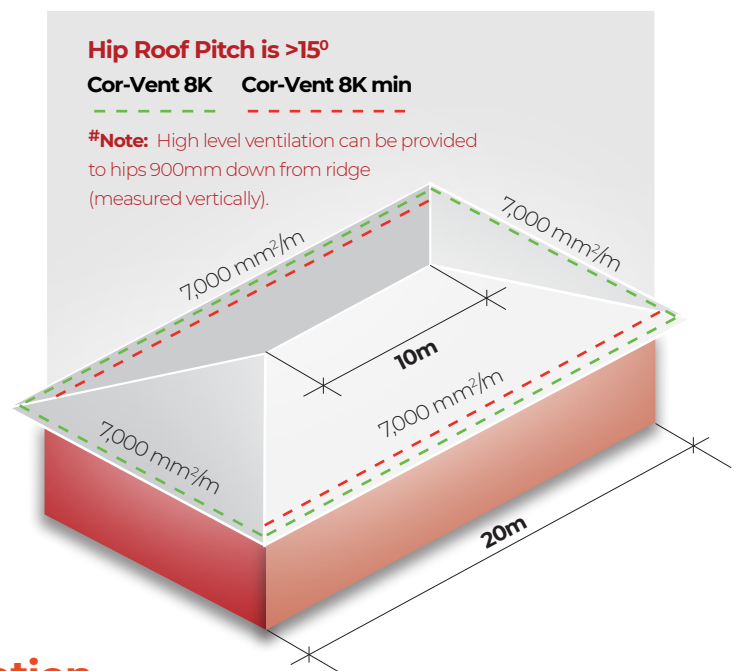
Calculate the minimum ventilation opening area requirements for low and high level. The vent device calculations must meet or exceed these values.

- 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)[#] = $100,000\text{mm}^2$.

Vent Device Calculations

Cor-Vent 8K (Low Level)

- 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 $280,000\text{mm}^2$



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 the top. This ensures the ventilation pathway is maintained with membranes.
- Weather proofing of structure must be maintained when installed.
- Ensure to use BAL FR and fire rated solutions when installing in bushfire zones.
- In marine zones it is recommended to use BAL FR 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® Installation Examples

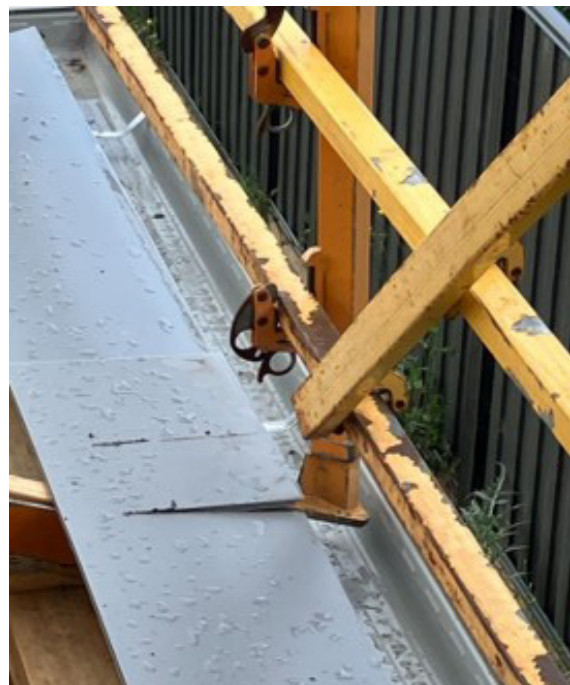
Cor-Vent® 8K 250 low level ventilation 15-75 degree DTS compliant Ventilation & Anti-ponding board

Completed Installation



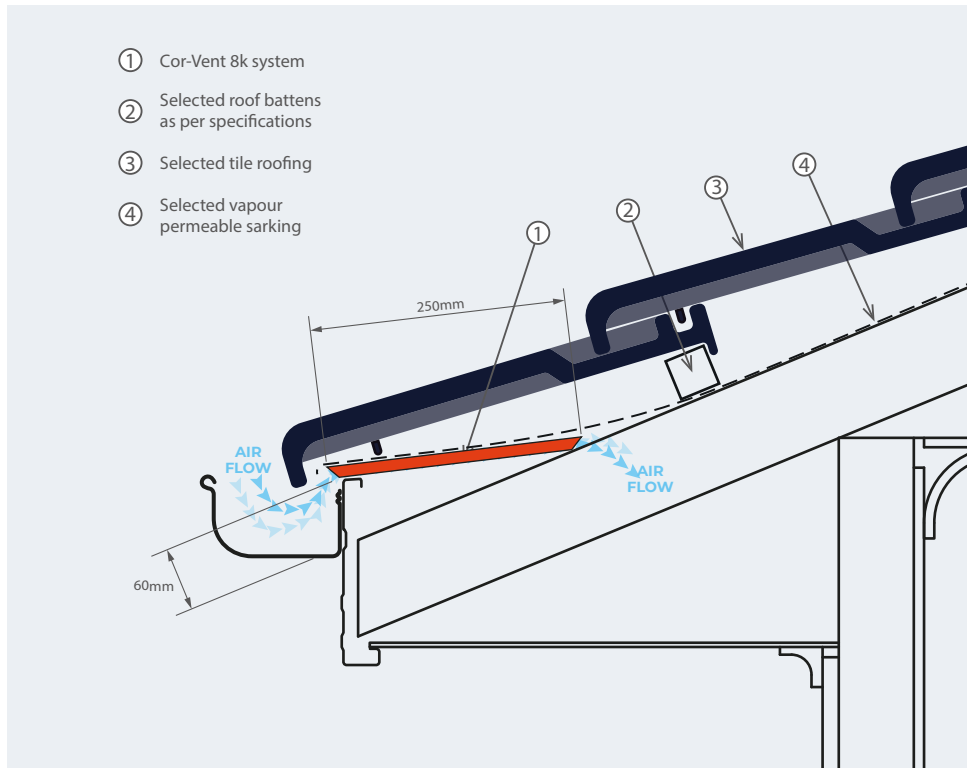
Tile Roofing Rails

- Typically install from the top attached to rafter.
- Ventilation cut around bracket.

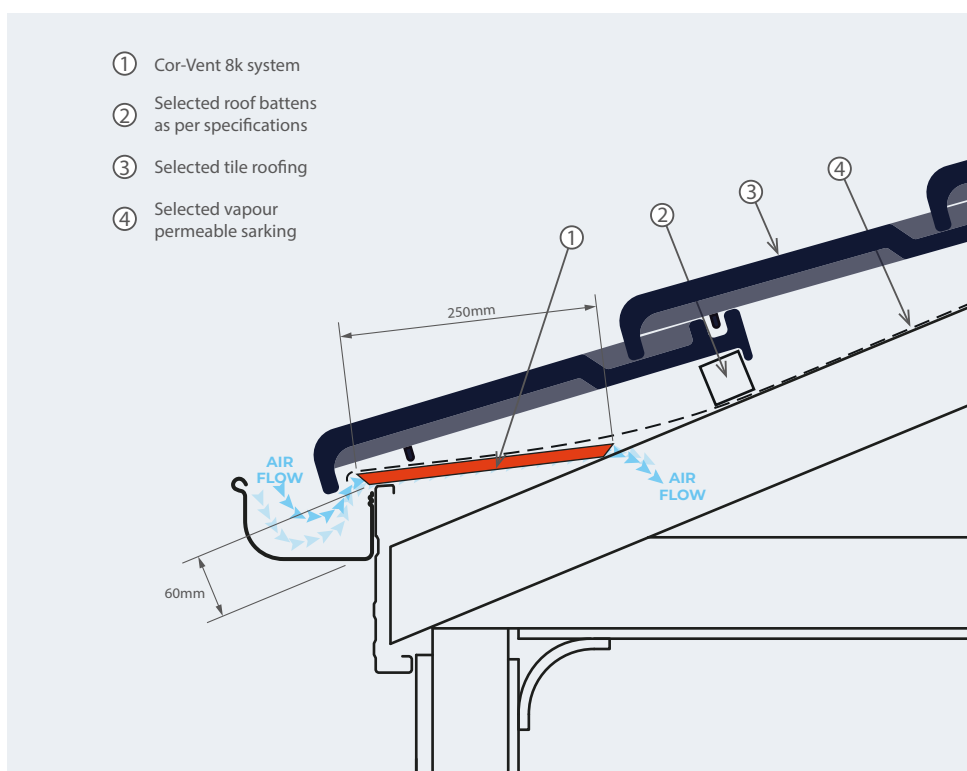


Cor-Vent 8K 250 TILE Roof

Low Level - Eave with a Soffit



Low Level - Eave without a Soffit



Corex Recycling is a Melbourne based plastic recycle processor specialising in Corflute®, Polypropylene (PP), HDPE and other plastic recycling solutions.

Part of Corex Plastics, Corex Recycling operates with over 30 years of expertise and knowledge within the plastics industry. This experience helps promote sustainable recycling solutions for all Corex products and most other plastics.

Corex Recycling had one of its largest infrastructure upgrades in 2017. The new infrastructure helped cater for rising demands and doubled the pre-existing recycling output. It also allowed for new opportunities to explore previously unseen specialized polymer streams with Corflute and beyond.

At Corex, we believe that innovation is what sets us apart. That's why we created a business with a specialist range of services so that we can offer a one-stop-shop to our customers seeking locally made plastic solutions.

As well as providing state of the art sheet extrusion, we design complete packaging solutions for a diverse range of industry sectors including;

- Building and construction
- Retail signage
- Food and beverage
- Automotive
- Horticulture



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