MASONS RIDGE VENT

# DESIGN AND INSTALLATION GUIDE

MASONS
Designed Smart, Built Tough.

V1.0 April 2025

## General and product information

### Description - Masons Ridge Vent

MASONS Ridge Vents are made of tough non-absorbent polypropylene and are used to form a cavity allowing the free flow of air and moisture, assisting with effective ventilation of a roof space. The cellular construction is nonconductive, capillary action resistant and dimensionally stable and assists with reducing thermal bridging. They are robust with a high compressive strength so are effective packers. MASONS Ridge Vents, for roof applications, should be covered within 21 days. This is to match the maximum UV exposure time of Masons Roof Underlays. Check the UV exposure of the roof underlay used and conform to that. MASONS recommends same day cover for MASONS roofing underlay and MASONS Ridge Vent.

MASONS Ridge Vents can be cut in half to accommodate a mono pitch ridge or barge vent and are suitable for long run metal roofs with a maximum trough depth of 34mm. MASONS Ridge Vents blend seamlessly with the roof's design and function by allowing air to naturally rise and exit through the top of the roof ensuring continuous airflow.

MASONS Ridge Vents feature a flexible, adhesive aluminium flashing that conforms to most cladding profiles, effectively preventing water ingress on roofs of any pitch.

### Purpose

A MASONS Ridge Vent is an essential component in a passive roofing system designed to promote proper airflow and ventilation within the roof space. Installed at the highest point of the roof, typically along the ridge, the vent allows warm, moist air to escape from the attic or roof void. This helps to regulate temperature and humidity levels which build up under the cladding, preventing issues such as condensation and mould growth which can damage the roof structure over time.

By improving ventilation, a ridge vent helps maintain a dry, well-ventilated roof space, reducing the risk of moisture damage, and extend the life of the roof.

### Design

MASONS Ridge Vent may be used as part of the MASONS Passive Roof Ventilation System design (Refer to Masons Passive Roof Ventilation System Design & Installation Guide) or used independently.

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## Masons Roof Vent Product Code:

| | |
|---|---|
| Ridge Vent product code: | MRV1200x300x20 |
| Dimensions: | 1200 L x 300 W x 20mm H |
| Colour: | Black |
| Box Quantity: | Sold as a box of 6 |

*Note: the Mono Pitch Ridge / Barge Vent is formed by halving the Ridge Vent.*

## Cross Ventilation/Airflow Rates:

| | | |
|---|---|---|
| Ridge Vent: | 6500mm$^2$/ lm each side of ridge vent | (13000mm$^2$ total / lm) |
| Mono Ridge / Barge: | 6500mm$^2$ / lm one side only | (6500mm$^2$) |

## Features:

| | |
|---|---|
| **CONTINUOUS VENTILATION** | Provides consistent airflow along the ridge, improving attic space ventilation and reducing heat build up |
| **WEATHER RESISTANCE** | Designed to keep out rain, snow, and debris while allowing warm, moist air to escape. |
| **INTEGRATED FLASHING** | Includes flexible, adhesive aluminium flashing to seal to various roof cladding profiles and prevent water ingress. |
| **LOW-PROFILE DESIGN** | Sits discreetly along the roof ridge for a neat, streamlined appearance. |
| **DURABLE MATERIALS** | Made from UV-resistant and corrosion-resistant materials. |
| **PEST PROTECTION** | Apertures small enough to exclude vermon while maintaining airflow. |
| **UNIVERSAL FIT** | Designed to work with a wide range of roofing materials and pitch angles. |
| **EASY INSTALLATION** | |

## Building Regulations, NZBC

When designed, installed, and maintained in accordance with the guidelines outlined in this Design and Installation Guide, MASONS Ridge Vents will meet or contribute to meeting the following clauses of the New Zealand Building Code (NZBC):

- **B1 STRUCTURE:** Performance B1.3.1, B1.3.2 and B1.3.4.
- **B2 DURABILITY:** Performance B2.3.1 (b) 15 years and B2.3.2.
- **E2 EXTERNAL MOISTURE:** Performance E2.3.2.
- **E3 INTERNAL MOISTURE:** Functional Requirement E3.2 (c).
- **F2 HAZARDOUS BUILDING:** Performance F2.3.1.

## Scope of use:

- Suitable for Skillion or Trussed roofs in accordance with MRM COP and BRANZ guidelines
- Can be installed in wind zones up to and including Extra High - NZS3604
- Compatible with corrugated or trapezoidal roofs with a maximum trough depth of 34mm
- Ideal for both new builds and renovation projects
- Use as part of the MASONS Passive Roof Ventilation System or as a stand alone ventilation component

## Installation

| | |
|---|---|
| **STEP 1:** | Install MASONS Roof Vent centrally over the apex of the roof with the additional flashing length to one side. Do not walk on roof vent. |
| **STEP 2:** | Remove protective paper from the flashing tape and proceed to mould flashing to the roofing profile |
| **STEP 3:** | To ensure the ridge vent is flat against the roof it should be fixed temporarily in place with either tape or screws. |
| **STEP 4:** | Trim as required at the end of the ridge. |
| **STEP 5:** | Hip Roof - Install hip flashing first then trim the vent at the flashing intersection |
| **STEP 6:** | Gable Roof - Install barge flashing then fix vent over to the end of the roof |
| **STEP 7:** | A ridge flashing of 200mm should be sufficient to conceal the soft edge. |
| **STEP 8:** | Place and fix ridge flashing over. |

## General:

| | |
|---|---|
| **1.** | Masons Ridge Vent may be used with all MASONS roofing underlay products for roof application. They are likely to be suitable for use with many other underlays except where specified otherwise by the manufacturer. |
| **2.** | Ensure roof cladding is clean and dry prior to commencing and laying of the ridge vent |
| **3.** | Fix ridge flashing as per manufacturers instructions over ridge vent ensuring screw lengths are increased to accommodate for additional height of vent. |
| **4.** | When dressing down the aluminium soft edge care should be taken, notching where required and starting at the outer edge and working in. |
| **5.** | Installation should be carried out at minimum +5º |
| **6.** | Check compatibility of ridge vent with roofing/flashing manufacturer. |
| **7.** | Check the UV exposure of the roof underlay used and conform to that for the ridge vent. |

## Appraisals:

PASS Certificate

## Warranty:

15 years when installed strictly to manufacturers instructions

## Maintenance:

N/A

18a David McCathie Place, Silverdale, Auckland 0932, New Zealand 0800 522 533. info@mpb.co.nz. www.mpb.co.nz

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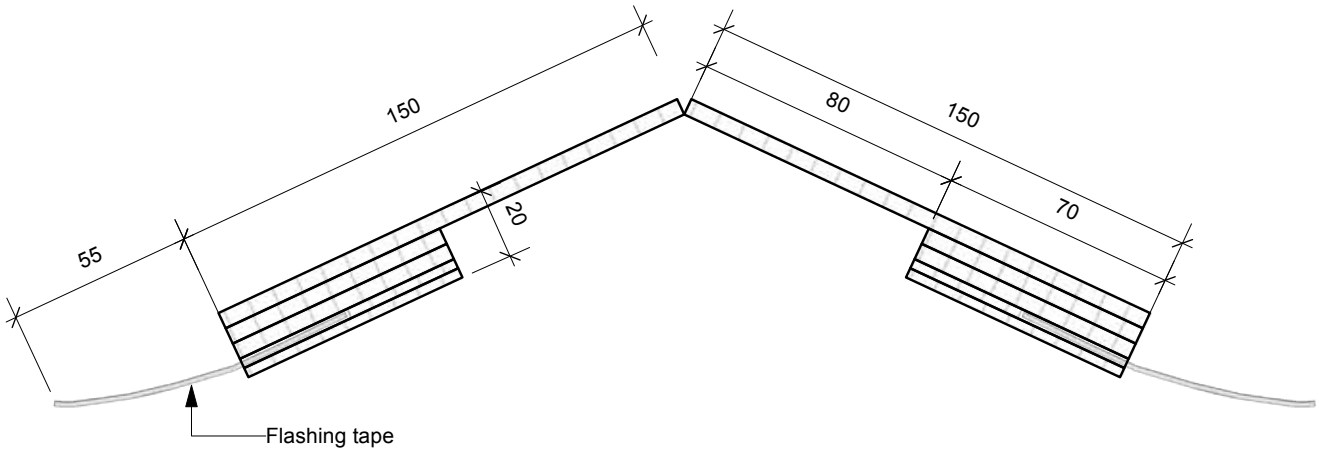
**Masons Ridge Vent**
MRV1200x300x20

Scale: 1:2. 1:10

Date: 14/04/25

Drawing No.

**Fig 1.02**




## End Profile
Scale: 1:2


## 3D Profile
Scale:

Masons Ridge Vent can be installed in wind zones up to and including Extra High NZS3604

*Product comes flat packed in 1.2m lengths and is folded to suit required roof pitch

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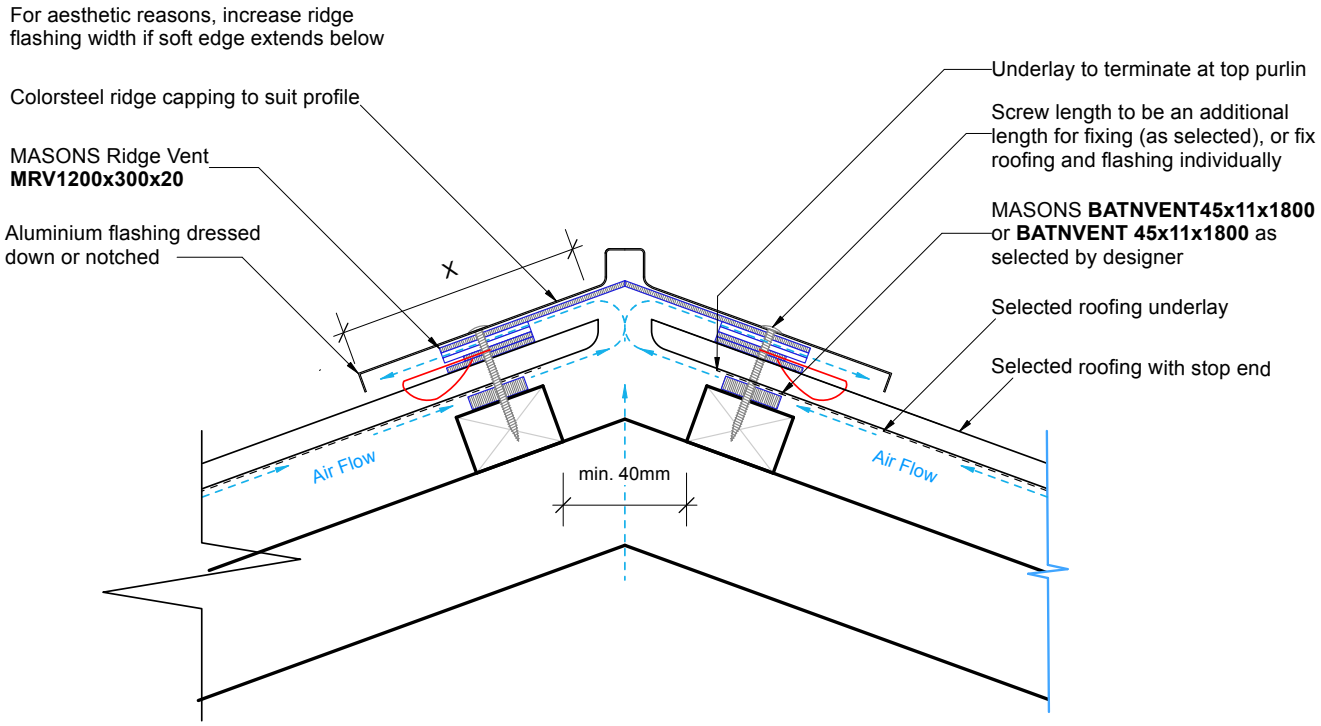
**Masons Ridge Vent**
Trussed Roof - Steel Longrun

Scale: 1:5

Date: 14/04/25

Drawing No.

**Fig.1.03**




**Masons Key Components: MRV1200x300x20, BATNVENT 45x11x1800, BFFL.5X650X6**

For minimum values of 'X' refer to Table 7 E2/AS1. Recommend a minimum of 200mm to conceal flashing tape.
The main contractor is responsible for ensuring the proper placement of purlins at ridge and eave
The ridge cap should be supplied by the roof cladding supplier. A 200mm ridge cap is recommended to conceal the soft edge flashing, if needed.
Compatible for trough depths up to 34mm

This is a recommended method for roof ventilation; however, the overall design and dimensions are the responsibility of the designer to ensure compliance with the NZ Building Code, NZ Metal Roofing Code of Practice & E2/AS1

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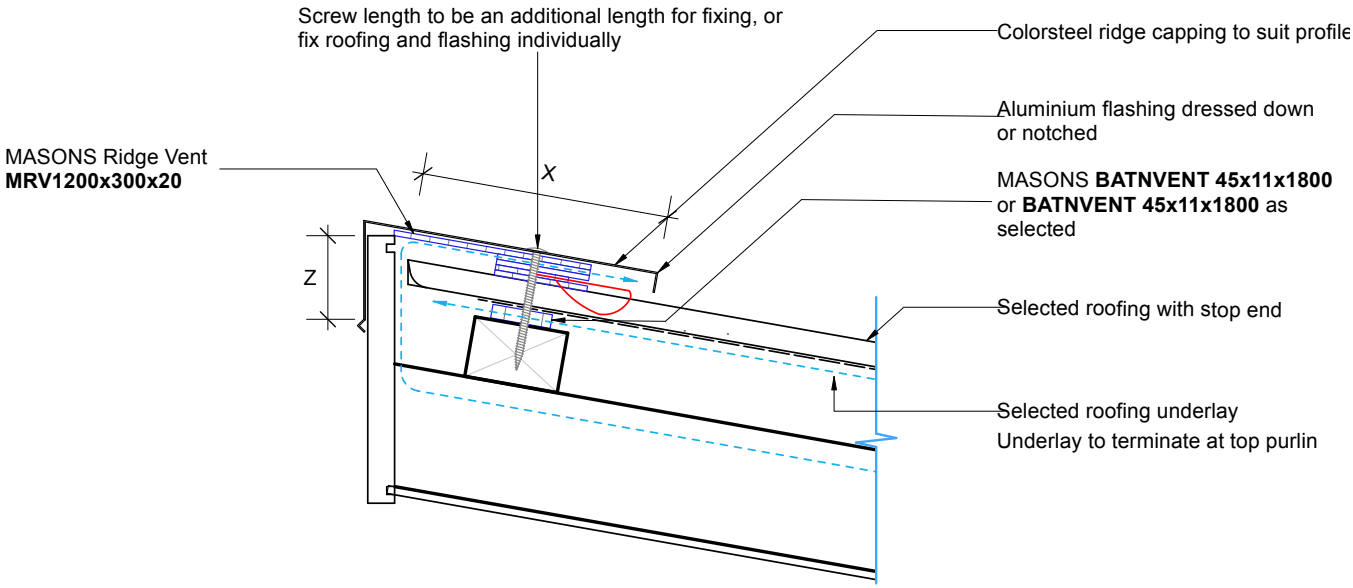
**Masons Ridge Vent**
Trussed Roof - Steel Longrun

Scale: 1:5

Date: 14/04/25

Drawing No.

**Fig.1.04**




**Masons Key Components: MRV1200x300x20, BATNVENT 45x18x1800, BATNVENT 45x11x1800**

For minimum values of 'X' & 'Z' refer to Table 7 E2/AS1. Recommend a minimum of 200mm for 'X' to conceal flashing tape (or more if required)
The main contractor is responsible for ensuring the proper placement of purlins for fixing of the ridge vent.
The ridge cap should be supplied by the roof cladding supplier. A 200mm ridge cap is recommended to conceal the soft edge flashing, if needed.

This is a recommended method for roof ventilation; however, the overall design and dimensions are the responsibility of the designer to ensure compliance with the NZ Building Code, NZ Metal Roofing Code of Practice & E2/AS1