



GALVANISED SUB FLOOR PUNCHED GRID VENTS - ANTI SPARK

JUL23

Compliant with the requirements of AS3959 and NCC2022.

G GALVANISED

BAL-40 RATED

APPLICATION

VUETRADE Sub Floor Punched Grid Vents - Anti Spark provide ventilation in brick and block walls for areas that are prone to bushfires. These vents are designed to be inserted into the wall during masonry construction and contain an anti-spark mesh panel insert that is rated up to and including BAL-40.

SPECIFICATION

VUETRADE Sub Floor Punched Grid Vents are manufactured in G300 Z275 material with a thickness of 0.8mm.

Material: G300 Z275 Galvanised Steel

Hole Size: 11mm by 11mm (See figure below)

SIZES

Product Code	Size (mm)	Air Flow (mm ²)	Box Qty
VTSFVAS230X76	230 x 76	2 576	20
VTSFVAS230X76SLIM	230 x 76	3 175	20
VTSFVAS230X160	230 x 160	5 795	20
VTSFVAS190X190	190 x 190	5 993	20
VTSFVAS390X190	390 x 190	12 531	20

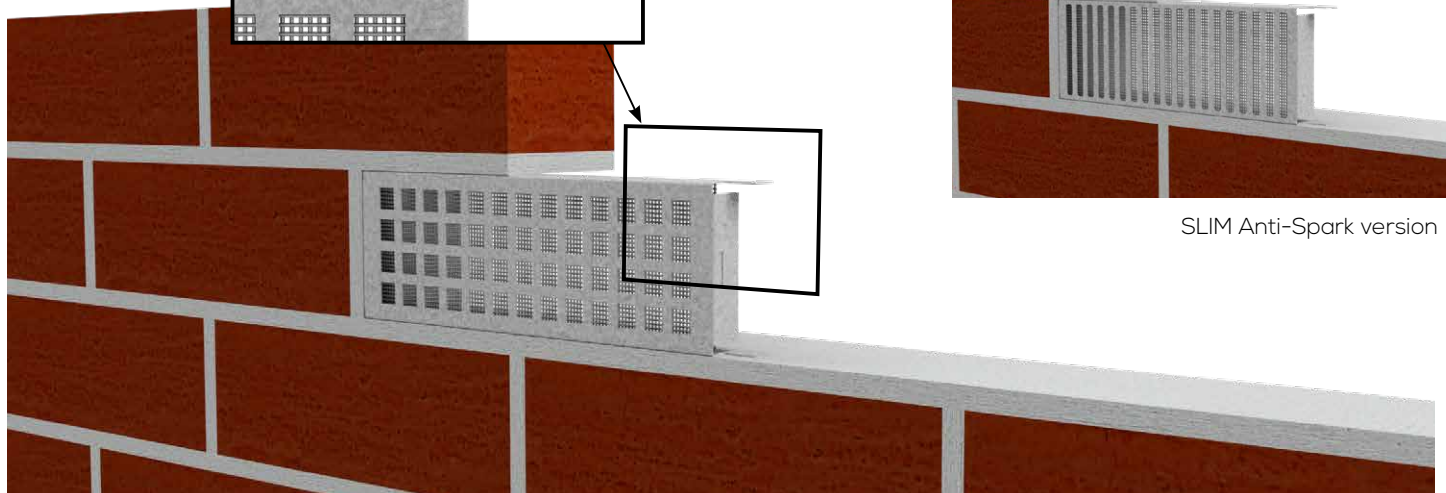
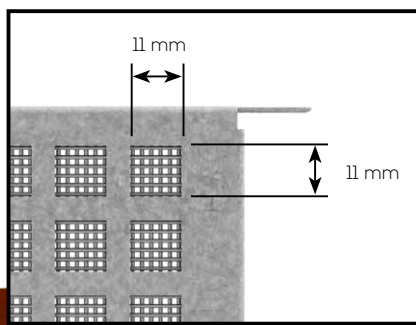
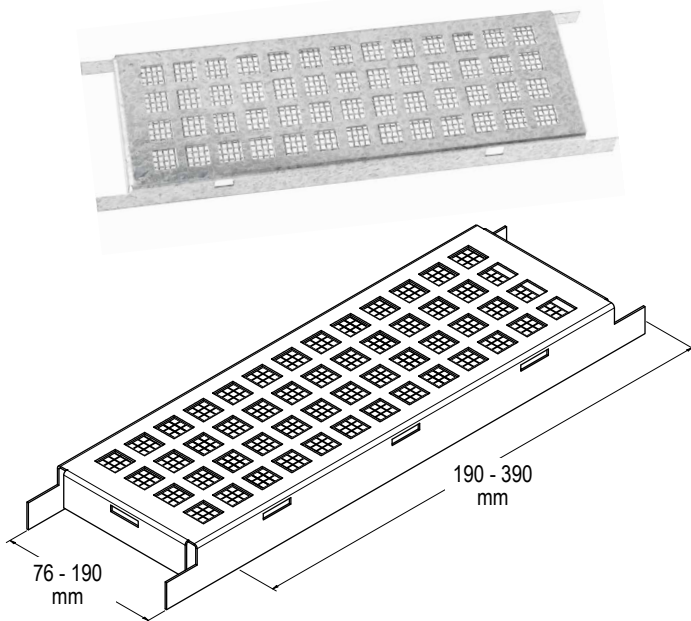
ANTI SPARK MESH PANEL INSERTS

Material: Stainless Steel 316

Wire diameter: 0.9mm

Aperture: 1.64mm

BAL Rating : Up to and including BAL-40 (40kW/m²)



SLIM Anti-Spark version





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**SUBFLOOR VENTILATION SIZE:
RECOMMENDED PRACTICE IN ACCORDANCE WITH THE
NATIONAL CONSTRUCTION CODE (NCC) 2022**

The National Construction Code 2022 specifies that all subfloors shall be fitted with ventilation to allow air flow in the subfloor spacing area. The code recommends that the subfloor punched vent be installed in accordance to the climatic zone shown in Figure 6.2.1a from ABCB Housing Provisions of the NCC 2022 below.

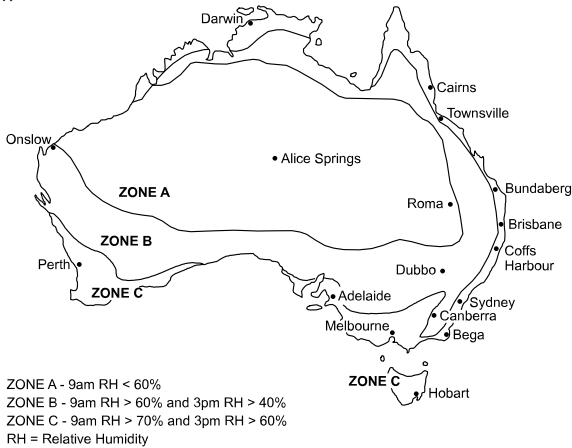


Figure 6.2.1a - Climatic zones based on relative humidity (Source: ABCB Housing Provisions, NCC 2022)

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Table 6.2.1a: Subfloor openings

Climatic zone	Minimum aggregate subfloor ventilation with no membrane (mm ² /m of wall)	Minimum aggregate Subfloor ventilation Openings with ground Sealed with Impervious membrane (mm ² /m of wall)
A	2000	1000
B	4000	2000
C	6000	3000

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The minimum required sub-floor ventilation per linear metre of wall is recommended in Table 6.2.1a in the ABCB Housing Provisions of the NCC 2022 to allow sufficient air flow within the subfloor space.

Taking an example of using the VUETRADE Subfloor Punched Vent 230 x 76mm (VTSFV230X76) on an 8m length wall on the ground with no membrane in Zone C of the climatic zone chart, the number of vents required as per NCC 2022 can be calculated as follows,

- Airflow of Punched Vent 230mm x 76mm: 6178mm²
- Calculate the total ventilation area required on the wall based on NCC 2022 minimum requirement based on desired wall length (8m in this example) = 8m x 6000mm²/m = 48000mm²
- Number of vents required (8m length wall) = Total ventilation area (mm²)/Air flow area of one vent (mm²) = 48000mm²/6178mm² = 7.76 ≈ 8 vents (rounded up)

INSTALLATION GUIDE (BASED ON NCC 2022)

The vents shall then be installed in even spacing along the length of the wall and no more than 600mm in from the corner. In areas which are prone to bushfire attack up to and including BAL-40, anti-spark stainless steel wire mesh shall be installed in the vent to prevent entry of ember or wind carried burning debris into the house through the subfloor vent. It is advisable to ensure the minimum ventilation requirement is met as the anti-spark wire mesh may restrict the total airflow required for ventilation.

NOTE:

The above guide serves as a design guide based on the National Construction Code 2022. Consult a qualified engineer or architect to ensure sufficient ventilation is provided for subfloor spacing, adhering to applicable local building codes and Australian Standards.

ANTI SPARK MESH



APPLICATION

VUETRADE Anti Spark Mesh provides protection against ember attack in areas that are susceptible to bushfires. The mesh is for use in many applications such as protecting windows, covering weepholes, roof vents, gutters and doors.

SPECIFICATION

VUETRADE Anti Spark Mesh is manufactured in Stainless Steel 316 to ensure corrosion resistance, with wire diameter of 0.9mm forming a maximum aperture of 1.64mm.

VUETRADE Anti Spark Mesh complies to the **Australian Standard AS 3959:2018 – ‘Construction of Building in Bush fire-prone Areas’** where the mesh is to be made of corrosion resistant steel with maximum aperture of 2mm in exposure up to and including **BAL 40 (40kW/m²)**.

- Wire diameter:** 0.9mm
- Aperture:** 1.64mm
- BAL Rating :** Up to and including BAL-40 (40kW/m²)

