MASONS AUST LTD

MAXI PLUS EXTREME DATA SHEET

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AU - DATA SHEET V1 Sept 2025

Purpose

Masons supplies the fire retardant Maxi Plus Extreme Foil Roof Underlay for use in residential and commercial buildings. It is a reflective aluminium foil and non-reflective polyweave laminate, bonded using a fire-retardant adhesive.

Description

Maxi Plus Extreme Roof Underlay is an Extra Heavy duty membrane. It is coloured green on the front, is aluminium foil on the back and is supplied in rolls of 1.5m wide x 30m long (45m^2) or 1.35 wide x 30m long (40.5m^2).

Maxi Plus Extreme is categorised in accordance with AS/NZS 4200.1 as follows:

- **Duty classification:** Extra Heavy duty
- **Emittance classification:** PE surface non reflective - Foil surface reflective
- **Conductivity:** Electrically conductive
- **Water control classification:** Water barrier
- **Vapour control classification:** Vapour permeability – Class 1
- **Flammability classification:** Low flammability.

Scope of Use and Limitations

- Maxi Plus Extreme may be used in conjunction with masonry tile, pressed metal tile or profiled metal roof cladding.
- Maxi Plus Extreme has a flammability index of <5 and therefore an AS/NZS 4200.1 flammability index of Low. However, in bushfire prone areas the designer and/or installer must establish compliance with AS 3959.
- **IMPORTANT:** Do not alter this product. Compliance with the referenced evidence of suitability is valid only when the product or configuration exactly matches the specifications detailed in this Data Sheet.

- **WARNING:** This product is non-structural. Do not use it to support, store, or bear the load of building materials, tools, or equipment.
- This product does not have a Group Number in accordance with AS ISO 9705 and AS 5637.1 (NCC 2019 Volume 1 Amend. 1 Specification C1.10 Clause 4, NCC 2022 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining.
- This product is not intended for extended exposure to the elements. Therefore, exterior cladding must be installed within 2 weeks in roofing applications.
- Products exposed to adverse weather conditions prior to cladding installation must be inspected for damage. Any compromised components must be repaired or replaced to maintain compliance with the Product Warranty.
- Prior to cladding installation, it is best practice to protect this product from UV exposure and adverse weather conditions, as these may result in material degradation or damage.
- This product is not designed for submersion in water or prolonged contact with soil, as such conditions may compromise its performance or durability.
- This product must not come into contact with concrete or materials with high alkalinity, as such exposure may lead to degradation or reduced performance.

NCC Compliance

If designed, installed and maintained in accordance with all Masons requirements, the roof underlay covered by this statement will comply with or contribute to compliance with the following performance claims:

NCC 2022

MATERIAL PERFORMANCE PROPERTIES

Meets the requirements of the NCC 2022 Volume 1 F3D3 for sarking-type material through compliance with AS 4200.1.

NON-COMBUSTIBLE SARKING-TYPE MATERIAL EXEMPTION

This product may be used in accordance with the non- combustible sarking-type material exemption stated in NCC 2022 Volume 1 C2D10(6)(f) and NCC 2022 Volume 2 H3D2(1)(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.

BAL AND FIRE HAZARD PROPERTIES

Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2022 Volume 1 S7C7. The product meets these requirements by having a Flammability Index ≤5.

NCC 2019

MATERIAL PERFORMANCE PROPERTIES

Meets the requirements of the NCC 2019 for Volumes 1 and 2 Amend. 1 F1.6 for sarking-type material through compliance with AS 4200.1.

NON-COMBUSTIBLE SARKING-TYPE MATERIAL EXEMPTION

This product may be used in accordance with the non- combustible sarking-type material exemption stated in NCC 2019 Volume 1 Amend. 1 C1.9(e)(vi) and Volume 2

Amend. 1 3.7.1.1(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.

BAL AND FIRE HAZARD PROPERTIES

Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2019 Volume 1 Amend. 1 Specification C1.10. The product meets these requirements.

Installation Instructions

- Always isolate and switch off power before beginning installation.
- This product contains aluminium foil, which conducts electricity. To prevent electrocution, ensure that neither the product nor any conductive fasteners used to secure it touch or are placed near electrical wiring during installation or use.
- Install this product allowing up to 40mm of sag between battens or rafters to help reduce the risk of shrinkage.
- When used for vapour and/or air control, seal all overlaps (minimum 50mm), end laps, discontinuities, and penetrations using suitable methods such as heat- and moisture-resistant adhesive tape.
- When used for water control, overlaps must be a minimum of 150mm, or at least 50mm if taped on the exterior face.
- To improve water control at vertical joints, seal overlaps, end laps, discontinuities, and penetrations with heat- and moisture-resistant adhesive tape having a minimum 50mm overlap.
- **Application Suitability:** This product is suitable for installation on the exterior side of the building frame in NCC 2022 Climate Zones 1 to 3 where a vapour barrier is specified.
- Install the product with the coloured semi-reflective or anti-glare side facing outward.
- Always follow the installation instructions in AS 4200.2. For inclusion in BAL (Bushfire Attack Level) classified buildings, additionally adhere to the installation requirements of AS 3959.

- To preserve the material's water barrier properties, avoid puncturing, creasing, crushing, sharp folding, or dragging it over the building structure during installation.
- This product is classified as a vapour barrier and should be installed on the warm side of the construction to minimize the risk of condensation becoming trapped within the structure. Because many factors affect condensation risk, it is strongly recommended that designers perform a hygrothermal analysis for further risk reduction.
- The reflective R-values of this product depends on the presence of adjacent air spaces and will vary based on the specific design and installation. Refer to AS/NZS 4859.2 for further guidance.

Conditions of Storage & Maintenance

- Store the product in its original packaging in a cool, dry environment, protected from UV exposure (including direct sunlight).
- Do not pressure wash or use mineral-based cleaning agents on this product, as these may cause surface damage or compromise material integrity.

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Material Characteristics Table

Characteristic	AS/NZS 4200.1	Maxi Plus Extreme Roof Underlay
Dry delamination	≤ 3 mm	pass
Wet delamination	≤ 3 mm	pass
Moisture shrinkage (both directions)	≤ 0.5%	≤ 0.5%
Folding endurance	≥ 2.00 log10 (md) ≥ 1.70 log10 (cd)	> 3.69 log^{10} (md) > 3.54 log^{10} (cd)
Tensile strength (md) (kN/m)	Extra heavy ≥13 Heavy ≥12.5 Medium ≥9.5 Light ≥7.5 Extra light ≥6.0	Extra Heavy
Tensile strength (ld) (kN/m)	Extra heavy ≥10.5 Heavy ≥7.5 Medium ≥6.0 Light ≥4.5 Extra light ≥3.5	Extra Heavy
Edge tear resistance both directions (N)	Extra heavy ≥ 90 Heavy ≥ 80 Medium ≥ 65 Light ≥45 Extra light ≥30 Light wall ≥45	Extra Heavy
Emittance classification	IR Reflective ≤ 0.05 IR Semi reflective > 0.05 x ≤ 0.15 IR non-reflective > 0.15	PE surface non reflective- Foil surface, reflective

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Material Characteristics Table

Characteristic	AS/NZS 4200.1	Maxi Plus Extreme
Vapour Control Membrane classification Vapour permeance µg/N.s	Vapour barrier Class 1: 0≤x<0.0022 Class 2: 0.0022≤x<0.1429 Vapour permeable Class 3: 0.1429≤x<1.1403 Class 4: x ≥ 1.1403	Class 1
Water control classification Water penetration resistance	Water barrier – pass AS/NZS 4201.4 Non water barrier - fails AS/NZS 4201.4	Water barrier pass
Flammability	Low ≤ 5 High > 5	Low 1
Conductivity	Non-conductive ≤ 10 Gff Conductive ≥ 10 Gff	Conductive 1
Surface water Absorbency g/m2	≥ 100	304 Non absorbent.
Air permeance µm/Pa.s	≥ 0.1 (ISO 5636.5:2003)	0.014
Thickness	< 1.0 mm	< 1.0 mm

Note: Characteristic assumption based on tested performance of other wraps.
All wraps manufactured by same company, using same products, to the same standardised processes.

SECTION 1: ADMIN DETAILS

Company name	Masons Aust Ltd
Name of product	Maxi Plus Extreme Foil Roof Underlay
ABN	80 659 670 201
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A-25055