

Ametalin CeaseFire™

Product Code: CF

**Non-combustible
roof and wall insulation**
Class 4 Vapour Permeable
For use in Type A and B
fire resisting constructions
In ABCB Climate Zones 2-8

Australian Patent Pending



Ametalin CeaseFire™ is an advanced vapour permeable wall and roof membrane designed specifically as a non-combustible pliable building membrane for use in Type A and B fire resisting constructions and in all construction types where superior passive fire performance and vapour permeability is a priority.

Classified as Class 4 Vapour Permeable, the advanced hydrophobic infusion blocks liquid water and air movement while allowing water vapour diffusion through the wall structure. Ametalin CeaseFire™ also contributes to a well-sealed building for maximum energy efficiency. The E-Glass weave provides an Extra Heavy Duty and is not deemed combustible.

- > Non-combustible
- > Class 4 Vapour Permeable
- > Ember-proof and suitable for all BAL zones
- > Water and Air Barrier
- > High strength and puncture resistant
- > Chemically inert / long life components

Application

Ametalin CeaseFire™ is suitable for all NCC building classes in commercial and single or multi-storey residential fire resisting external wall constructions in regions of Australia south of the Tropic of Capricorn (ABCB Climate Zones 2-8), where both condensation management (*NCC 2019 Vol. One F6.2*) and non-combustible construction (*NCC 2019 Vol. One C1.9 and Vol 2, C3.7.1.1*) are required.

For ABCB climate zone 1 and north of the Tropic of Capricorn in Climate Zone 2, substitute with FireSark™ Vapour Barrier sarking and wall wrap.

Technical Data Sheet APM-21333-16

Vapour Control

Ametalin CeaseFire™ has the following vapour control properties when tested in accordance with *AS/NZS 4200.1:2017*.

Vapour Permeance: 1.5767 µg/N·s
Vapour Resistance: 0.634 MN·s/g
WVTR: 191.32 g/m²·24hr

A detailed hygrothermal analysis is recommended for moisture control in building design.

Construction

Ametalin CeaseFire™ is a flexible single-layer membrane made with non-combustible E-glass fabric and treated with a hydrophobic flame and chemical resistant polymer infusion. The infused micro-structure enables Ametalin CeaseFire™ to achieve Class 4 Vapour Permeable classification, while preventing the passage of liquid water, and air movement.



> Single layer impregnated
E Glass fabric

Declared Total System R-Values

Residential Roof

22° pitch with
Ametalin CeaseFire™, unventilated

Winter **R_t 0.57**

Summer **R_t 0.74**

Profile Metal Cladding

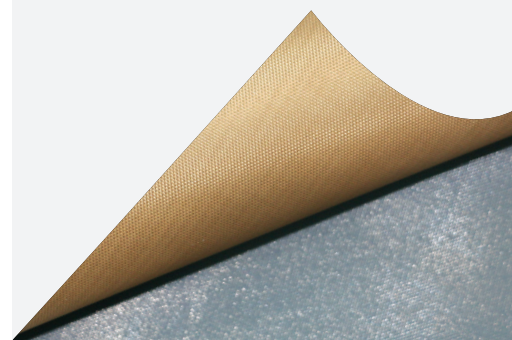
fixed to battens with
Ametalin CeaseFire™ + R2.7 fibrous batt

Winter **R_t 2.82**

Summer **R_t 2.68**

R-values apply to typical conditions for mainland Australian capital cities and have been calculated by an independent consulting engineer, in accordance with *AS/NZS 4859.1:2018*. For detailed design of building systems readers are advised to seek advice from a qualified engineer, based on actual site conditions.

The contributions of this product to the total system R-value depends on installation and environmental conditions.



Material Properties and Classifications

Ametalin CeaseFire™ classifications in accordance with AS/NZS 4200.1:2017 and NCC 2019 Volume One, C1.9 and NCC 2019 Volume Two, Part 3.7.4.1.

| Criteria | Reference | Result | Requirement |
|---------------------------------------|--------------------|--------------------------------------|------------------------|
| Combustibility | AS 1530.1-1994 | Not deemed combustible | |
| Flammability Index | AS 1530.2-1993 | Low (1) | High (> 5) / Low (≤ 5) |
| Early Fire Hazard Indices | AS/NZS 1530.3-1999 | 0, 0, 0, 2 | 0 - 20, 0, 0 - 10, ≤ 3 |
| Fire Hazard Assessment | AS 5637.1:2015 | Group 1 | Classification |
| Nominal Thickness | | 0.17 mm | ≤ 1mm |
| Duty | AS/NZS 4200.1:2017 | Extra Heavy | Classification |
| Tensile Strength Machine Direction | AS 1301.448s-91 | 24 kN/m | Min 13.0 kN/m |
| Tensile Strength Lateral Direction | AS 1301.448s-91 | 20.6 kN/m | Min 10.5 kN/m |
| Edge Tear Machine Direction | TAPPI T 470 om-89 | 326 N | Min 90 N |
| Edge Tear Lateral Direction | TAPPI T 470 om-89 | 178 N | Min 90 N |
| Vapour Control | ASTM E96 | Class 4 Vapour Permeable | Class 1 to 4 |
| Vapour Permeance | ASTM E96 | 1.5767 µg/N.s | Value |
| Water Control | AS/NZS 4201.4:1994 | Water Barrier | Classification |
| Air Control | ISO 6536/5-2003 | Air Barrier | Classification |
| Resistance to Dry Delamination | AS/NZS 4201.1:1994 | Pass | Pass |
| Resistance to Wet Delamination | AS/NZS 4201.2:1994 | Pass | Pass |
| Shrinkage (Repeated wetting & drying) | AS/NZS 4201.3:1994 | 0.0% | < 0.5% |
| Electrical Conductivity | AS/NZS 4200.1:2017 | Non-conductive | Classification |
| Emittance Value | AS/NZS 4201.5:1994 | Grey side: 0.90, Printed side: 0.90 | Value |
| Emittance Classification | AS/NZS 4200.1:2017 | IR Non-reflective, IR Non-reflective | Classification |
| Emittance Category | AS/NZS 4200.1:2017 | NN | Category |

NCC Compliant

Ametalin CeaseFire™ complies with NCC 2019 Deemed-to-Satisfy Provisions for non-combustible constructions *Volume 1 C1.9, Volume 2 Part 3.7.1.1* and AS 4200.1:2017 *Pliable Building Membranes and Underlays, Part 1: Materials*, and therefore meets all general requirements of the *National Construction Code* of Australia for insulation, pliable building membranes and non-combustible weather barriers.

Fire Performance

Combustibility

Not deemed combustible

E-glass tested in accordance with AS 1530.1-1994 *Methods for fire tests on building materials, components and structures Part 1: Combustibility test for materials*.

Fire Hazard Properties

Group 1

Classified in accordance with AS 5637.1:2015 *Determination of fire hazard properties* based on testing in accordance with AS/NZS 3837:1998 *Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter*.

Ignitability

Ignitability: 0, Spread of flame: 0, Heat evolved: 0, Smoke developed: 2

Tested in accordance with AS/NZS 1530.3:1999 *Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release*.

Flammability index

Low (1)

Tested in accordance with AS1530.2-1993 *Methods for fire tests on building materials, components and structures Part 2: Test for flammability of materials*.

Bushfire Attack Levels

Complies with AS 3959-2018 *Construction of buildings in bushfire-prone areas* for use in all BAL zone building constructions.

Seek independent advice regarding the selection of pliable building membranes prior to installation in the BAL design.

Dimensions

1500 mm x 30 m (45 m²)

Nominal Thickness: 0.17 mm

Handling and Storage

Store this product in a clean dry place in the pack provided.

Performance insulation for a greener world

9-11 Playford Crescent Salisbury North SA 5108

T: +61 8 8285 6955 F: +61 8 8285 5911

E: info@ametalin.com W: ametalin.com



Ametalin

Durability may be affected by environmental factors, including chemical and airborne pollutants, if used in industrial or farm buildings.

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Specification Notes

When specifying, state the following:

Product name: Ametalin Ametalin CeaseFire™

The pliable building membrane to be installed shall be Ametalin Ametalin CeaseFire™, tested in accordance with *AS 1530.1-1994 Methods for fire tests on building materials, components and structures Part 1: Combustibility test for materials to satisfy NCC 2019, Vol 1, C1.9 for non-combustible constructions* and shall be installed in accordance with *AS 4200.2: 2017 Pliable Building Membranes and Underlays, Part 2: Installation*.

Combustibility: Not deemed combustible

Flammability Classification: Low (1)

Fire Hazard Properties: Group 1

Early Fire Hazard Indices: 0, 0, 0, 2

Vapour Control Classification: Class 4 Vapour Permeable,
1.5767 µg/N•s

Air Control Classification: Air Barrier

Water Control Classification: Water Barrier

Duty Classification: Extra Heavy in accordance with
AS/NZS 4200.1:2017

Complete details including installation instructions are available on our website: www.ametalin.com

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