

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

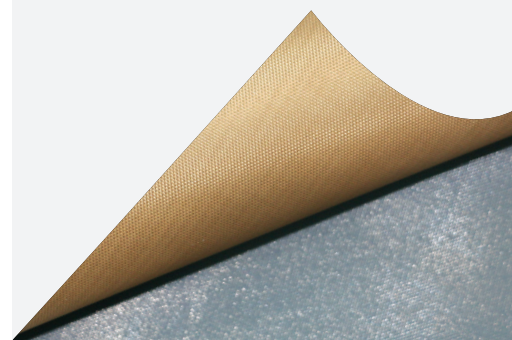
fixed to battens with
Ametalin CeaseFire™ + R2.7 fibrous batt

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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