

TBA FIREFLY NON-COMBUSTIBLE SARKING: BREATHABLE

Sarking Insulation Satisfying Non-Combustible Construction Requirements

PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

TBA Firefly Breathable Non-Combustible Sarking is an Extra Heavy Duty radiant barrier consisting of a layer of woven glass fabric with aluminium foil laminate. It is designed to be used as a water barrier, vapour permeable membrane or reflective insulation in commercial wall applications with a requirement for non-combustible materials or construction in accordance NCC 2016, BCA Volume One, C1.12. With superior tensile strength and tear resistance it provides a robust barrier to dirt, dust, draughts, wind driven rain and is suitable for use in bush fire prone areas to provide protection against burning embers. TBA Firefly Breathable Non-Combustible Sarking integral thermal insulation properties contribute to minimising heat gain and heat loss. As a vapour permeable membrane this product may be incorporated into designs to control condensation. TBA Firefly Breathable Non-Combustible Sarking has been tested in accordance with AS 1530.1 and may be used in non-combustible construction where there is a requirement to construct wholly of materials that are not deemed combustible.

TBA Firefly Breathable Non-Combustible Sarking meets the non-combustible insulation and material requirements of NCC 2016, Vol. 1-amendment 1. C1.9 Bonded Laminated Products and satisfies:

C1.13(d) Fire Protected Timber: Concession.

C2.10(ii)(B) Separation of Lift Shafts,

Spec.C1.1,2.2 Support of another part,

Spec.C1.1,2.5 Curtain walls and wall panels,

Spec.C1.1,2.9(ii)(C) Residential aged care building,

TYPE A FIRE-RESISTING CONSTRUCTION:

Spec.C1.1,3.1(b) external walls and common walls,

Spec.C1.1,3.1(d)(iii)(D) load bearing walls,

Spec.C1.1,3.1(e) non-load bearing internal walls,

Spec.C1.1,3.10(a)(ii, iii & v) non-combustible material,

Spec.C1.1,3.10(c)(ii)(C) non-combustible insulation.

KEY BENEFITS

Pliable yet extremely strong and easy to use

Provides ongoing physical protection against the elements

Reduces temperature variations to increase energy efficiency

Non-Combustible

High water resistance

Extra Heavy Duty

Soft facings reduce flapping noise

TYPE B FIRE-RESISTING CONSTRUCTION:

- Spec.C1.1,4.1(b) external walls and common walls,

- Spec.C1.1,4.1(e)(iii)(D) load bearing walls,

- Spec.C1.1,4.3(a)(ii, iii & v) non-combustible material,

- Spec.C1.1,4.3(c)(ii)(C) non-combustible insulation,

- Spec.2.5,2(a) non-combustible smoke-proof walls,

- NSWC2.5(b)(iii)(B) non-combustible insulation.

PHYSICAL CHARACTERISTICS

Width: 1270mm

Length: 50m

Thickness: 0.2mm

m² per roll: 63.5

Weight per roll (kg): 14.5

Product Code: EKA161/1.27m-B

When required, TBA "Class O Fire Rated Aluminium Tape", 100mm x 45m, shall be used to seal joints between adjacent runs of TBA Firefly Breathable Non-Combustible Sarking.

SALES:

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GENERAL INSTALLATION ADVICE

As a secondary lining material TBA Firefly Breathable Non-Combustible Sarking is not designed to withstand prolonged or direct exposure to UV or the weather. External cladding materials must be applied within 4 weeks of installation TBA Firefly Breathable Non-Combustible Sarking shall be installed in accordance with AS/NZS 4200.2:1994 Pliable Building Membranes & Underlays, Part 2 Installation Requirements with the non-reflective surface facing outwards. Proprietary cladding systems will provide specific installation instructions to achieve their fire/acoustic/thermal/weatherproofing performance requirements. TBA Firefly Breathable Non-Combustible Sarking is designed to be compatible with these types of systems. Please contact our technical team if guidance on proprietary installation instructions is required. TBA Firefly Breathable Non-Combustible Sarking should be installed in horizontal runs across the wall starting at the bottom plate. To form a continuous membrane over the entire area of the wall successive runs shall either be taped at joints or shall overlap the lower run by 150mm. For wall applications, affix to framing members using either battens or Hammer Tacker with 10mm staples at maximum 600mm centres. At least one fastener per stud shall be provided at laps. Taping of joints, penetrations and discontinuities is recommended to provide draught sealing. An air space of minimum 20mm thickness adjacent to the reflective face is required to achieve contribution as thermal insulation.

PROPERTY	TEST	RESULT
Combustibility	AS1530.1-1994 -Fortiglas layer -Aluminium layer AS1530.3 - Bonded laminated material	Non-Combustible Non-Combustible PASS Meets C1.9 NCC Vol 1 amendment 1
Flammability Index	AS1530.2-1993	1 (low)
Early Fire Hazard properties	AS/NZS1530.3-1999	0,0,0,1
Duty Classification	AS/NZS4200.1-1994 Table 1	Extra Heavy Duty
Edge Tear Resistance	AS/NZS4200.1 Cl.6.1.3 (TAPPI T470)	MD 193 (N/25mm) EHD LD 157 (N/25mm) EHD
Tensile Strength	AS/NZS4200.1 (AS1301.448s-1991)	MD 28.3 (kN/m) MD LD 19.7 (kN/m) MD
Resistance to Dry Delamination	AS/NZS4201.1-1994	PASS
Resistance to Wet Delamination	AS/NZS4201.2-1994	PASS
Shrinkage	AS/NZS4201.3-1994	0.0%
Water Barrier	AS/NZS4201.4-1994	Unclassified
Absorbancy	AS/NZS4201.6-1994	Unclassified (45.7g/m ²)
Vapour Permeance	ASTM E96	0.9578 ug/N.s
Vapour Barrier classification	ASTM E96	HIGH
pH of Extract	AS2001.3.1-1998	pH 6
Surface Corrosion and Wet Delamination	AS/NZS4859.1-2002 App I	PASS
Infra-red Emittance	ASTM E408	0.05 (foil surface)

SPECIFICATION NOTES

TBA Firefly Breathable Non-Combustible Sarking 1270mm x 50m, tested in accordance with AS 1530.1 to satisfy the requirements of NCC 2016, BCA Volume 1, C1.12 for non-combustible construction.

- Location in building and description of work
- Installed in accordance with manufacturers' instructions.