

Bradford® Fibermesh® 450 and 650 (Unfaced)

Refer to product table below for applicable product codes covered by this document

Issue **B**

Product Type & Application

Bradford® Fibermesh® 450 and 650 (unfaced) are medium density Rockwool bulk insulation products stitched on one side with a galvanised or stainless-steel wire mesh. This product is primarily used as a general-purpose insulation product in industrial applications where fire properties are required.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product provides the following compliance:

NCC 2022

- **Non-Combustibility** - The Rockwool blanket meets the non-combustible requirements of NCC 2022 Volume 1 C2D10 when assessed in accordance with AS 1530.1. The mesh (steel, including metallic coated steel) may be used where a non-combustible material is required in accordance with NCC 2022 Volume 1 C2D10(5)(b).
- **Fire Hazard Properties** - Meets the requirements of the NCC 2022 Volume 1, S7C7 for insulation materials. When assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices of Table S7C7.

NCC 2019

- **Non-Combustibility** - *The Rockwool blanket only* meets the non-combustible requirements of NCC 2019 Volume 1 Amend. 1 C1.9(a) when assessed in accordance with AS 1530.1. *The mesh has not been assessed to AS 1530.1, and testing the blanket/mesh assembly is not permitted by AS 1530.1.*
- **Fire Hazard Properties** - Meets the requirements of the NCC 2019 Volume 1 Amend. 1, Specification C1.10 Clause 7 for insulation materials. When assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices of Specification C1.10 Clause 7.

Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool, dry area, away from foodstuffs. Ensure packages are adequately labelled, protected from physical damage, and sealed when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.

Refer to the product SUIS/MSDS at Bradfordinsulation.com.au for more information.

Specific Design or Installation Instructions

- Isolate power before installation.
- **WARNING:** This product contains steel mesh which conducts electricity. To avoid electrocution, care should be taken to ensure that this product or conductive fasteners used to secure this product, do not come into contact or close proximity with electrical wiring during installation or use.
- **Caution:** Electrical cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail.
- Insulation should be installed so that forms a continuous layer and abuts or overlaps adjoining insulation other than at supporting members such as columns, studs, noggings, joists, furring channels and the like where the insulation must butt against the member.
- Suitable for applications where the product is protected from direct UV light, water and wind pressure during and after installation.

For general installation guidance refer to the product information on Bradfordinsulation.com.au

Limitations of Use

- **IMPORTANT** - Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed in this PTS.
- This product does not meet the non-combustibility or fusion temperature requirements of AS 1668.1 – The use of ventilation and air conditioning in buildings, 2.3.2.
- To understand the non-combustibility classification of this material, refer to the specific details under the 'Compliance with the NCC' and 'Additional Product Data' sections of this document.
- This product is not suitable for use as an exposed internal wall or ceiling lining in applications which require 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).
- Unfaced Rockwool is not a water or vapour barrier and is not suitable for water or vapour control.
- Not suitable for use in FRL applications.
- Not suitable for use in BAL-FZ.

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Evidence of Suitability

- Professional Assessment, AS/NZS 1530.3 –
 - Warringtonfire Assessment FAS210154.
- Professional Assessment for the Rockwool blanket only, AS 1530.1 –
 - Warringtonfire Assessment FAS210056.

Applicable Product Codes - Fibermesh® 450

THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m ² PER PIECE	PRODUCT CODE (GAL)	PRODUCT CODE (SS)
50	5	600	1	3.8	114149	114164
75	3	600	1	1.8	114150	114165
#100	2	600	1	1.2	114151#	114166#

Product discontinued December 2022.

Applicable Product Codes - Fibermesh® 650

THICKNESS [mm]	NOMINAL LENGTH [m]	NOMINAL WIDTH [mm]	PIECES PER PACK	m ² PER PIECE	PRODUCT CODE (GAL)	PRODUCT CODE (SS)
50	5	600	1	3.8	114145	114160
75	3	600	1	1.8	114146	114161
#100	2	600	1	1.2	114147#	114162#

Product discontinued December 2022.

Additional Product Data

Nominal Density	80kg/m ³ Fibermesh® 450 100kg/m ³ Fibermesh® 650	
Fire Hazard Properties	When assessed in accordance with AS/NZS 1530.3	• Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 1
Non-Combustibility - Blanket	When assessed to AS 1530.1	Non - Combustible
Non-Combustibility - Mesh	<i>The mesh has not been assessed to AS 1530.1, and testing the blanket/mesh assembly is not permitted by AS 1530.1.</i>	<i>The mesh (steel, including metallic coated steel) may be used where a non-combustible material is required in accordance with NCC 2022 Volume 1 C2D10(5)(b). NCC 2019 does not list this exemption.</i>

Other Accreditation

FBS-1 Rockwool - The fibre component of these products is listed by Safe Work Australia as Man-made Vitreous Fibre (Rockwool) of low bio persistence as specified under Note Q in the Australian Hazardous Substances Information System and in the Australian Approved Criteria documentation. In accordance with EU ATP 31 (2009) these fibres are not classified as an irritant, or as carcinogenic.

Refer to the product SUIS/MSDS at Bradfordinsulation.com.au for more information.