

# TECHNICAL DATA SHEET

## SISALATION® FOAM CELL MULTIPURPOSE



### Product description and typical applications

Incorporating a closed cell, cross-linked foam core encapsulated between an upper and lower layer of reflective foil laminate, Foam Cell MULTIPURPOSE is a high quality foam product suitable for use in a range of commercial and residential building applications. It reduces up to 95% of the sun's radiant heat, minimises the risk of condensation and acts as an effective water and vapour barrier when installed correctly. Additionally, its R0.2 Material R-value makes it suitable for use as a thermal break solution for steel framed structures in accordance with National Construction Code (NCC) requirements.

Foam Cell MULTIPURPOSE incorporates a 150mm overlap along one side edge to maximise coverage, minimise wastage and allow for sealed edge protection to improve aesthetics in exposed applications. An anti-glare coating is applied to one side of the product to reduce the level of glare experienced during installation.

Additionally, Foam Cell MULTIPURPOSE achieves an 'Extra Heavy Duty' rating in accordance with Table 1 of AS/NZS 4200.1, thus providing maximum durability and increased tear resistance. This allows the product to be used as a sarking material in commercial buildings (classes 2-9) as per F1.6 of the NCC and as a pliable building membrane and underlay in residential applications as per 3.5.1.0 (f) of the NCC.



\*In accordance with AS 3959-2009 Construction of Buildings, Alterations and Additions in Bushfire Prone Areas

### Physical characteristics

Material R-value	Nominal thickness	Width	Overlap/ flap	Length	Area per roll	Nominal weight per roll	Product code
(m²K/W)	mm	mm	mm	m	m²	kg	
0.20	8.4	1350	150	22.25	30	14	395264

### Technical specifications

Material thermal resistance (m²K/W) ASTM C518	R0.2
Flammability Index AS 1530.2	≤ 5
Emittance (reflective face) ASTM E408	0.03
Emittance (anti-glare face) ASTM E408	0.06
Duty rating AS/NZS 4200.1 Table 1	Extra heavy
Water barrier AS/NZS 4201.4	High
Vapour barrier ASTM E96	Medium
Shrinkage AS/NZS 4201.3	< 0.5%
Resistance to dry delamination AS/NZS 4201.1	Pass
Resistance to wet delamination AS/NZS 4201.2	Pass
Water absorbency AS/NZS 4201.6	Unclassified
Corrosion resistance AS/NZS 4859.1 Appendix I	Pass



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## Thermal performance

Foam Cell MULTIPURPOSE complies with the requirements of AS/NZS 4859.1:2002 including Amendment 1. The thermal performance of Foam Cell MULTIPURPOSE varies with application, orientation and installation method. For complete Total R-value advice visit [www.insulation.com.au/fletcherspecpro](http://www.insulation.com.au/fletcherspecpro)

## Total R-values

The following table provides indicative Total R-value calculations based on typical systems. To determine the Total R-value for a broader range of system types, refer to [www.insulation.com.au/fletcherspecpro](http://www.insulation.com.au/fletcherspecpro)

CLASSIFICATION IN ACCORDANCE WITH AS/NZS4200.1		
FLAT METAL ROOF*	SUMMER (Heat Flow DOWN)	WINTER (Heat Flow UP)
	R3.2	R1.4
METAL WALL**	SUMMER (Heat Flow IN)	WINTER (Heat Flow OUT)
	R1.7	R1.8
<b>Construction detail:</b> metal wall or roof, 40mm unventilated air-space between the metal cladding and FOAM CELL. * >100mm unventilated reflective air-space with a ceiling lining. **Internally lined, with an unventilated air-space between the lining material and FOAM CELL. The declared Total R-values have been calculated in accordance with the methods outlined in AS4859.1 2002 including Appendix K. The contribution of this product to the Total R-value depends on installation and environmental conditions which includes the effect of dust. The Total R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.		

## Bushfire Attack Levels (BAL)

Roof system	BAL LOW – 40*
Wall system	BAL LOW – FZ*
*In accordance with AS 3959-2009 "Construction of Buildings, Alterations and Additions in Bushfire Prone Areas."	

## Specification notes

When specifying, state the following:

The insulation shall be Fletcher Insulation Foam Cell MULTIPURPOSE with a Material R-value of R0.2 and an Extra Heavy Duty rating in accordance with AS/NZS 4200.1.

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