Marley Ultra Double-Sided Radiant Barrier

Marley Roofing's new Essential Radiant Barrier provides long lasting and excellent protection against radiation and heat transfer through roofing systems, that will result in improved indoor temperatures and comfort.

PRODUCT CODE: ARB50DFGY

MARLEY PRODUCT DESCRIPTION:

Marley Ultra Radiant Barrier is available in two lengths:

1. MARLEY RADIANT BARRIER ULTRA DBL SIDED 50M$_2$
2. (MARLEY RADIANT BARRIER ULTRA DBL SIDED 45M$_2$)

APPLICATION: Residential

ADVANTAGES (FEATURES & BENEFITS):

> SABS Approved!

> Non-tear structure – high tensile and nail tear strength

> Fused structure – no delamination

> Adheres to SANS 428 fire rating – B/B1/2

> R-value of 1.5 – improved indoor comfort and reduced energy consumption

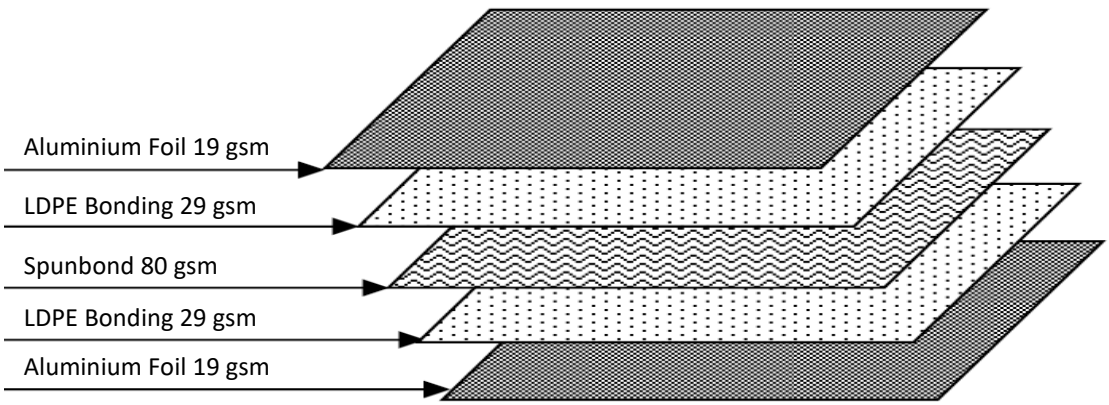
> Effective dust and moisture barrier – prevents rainwater penetration in extreme conditions

PRODUCT DESCRIPTION:

5 Layers laminate made up of double sided reflective aluminium foil bonded to Spunbond fabric with LDPE bonding.

PRODUCT STRUCTURE:

AL / LDPE BONDING LAYER / SPUNBOND / LDPE BONDING LAYER / AL



TECHNICAL INFORMATION:

Coverage per roll: 50 m² (45 m²)

Nominal coverage applying a 150mm overlap: 44m² (39,6 m²)

MARLEY ULTRA DOUBLE SIDED RADIANT BARRIER SANS 1381-4: Category C	DATA	UNIT	TYPICAL VALUE
	Category	–	C
	Form	–	Roll
	Length	m	40
	Width	mm	1250 ± 5
	Mass per unit area	g/m2	176 ± 10
	Resistance to delamination a) Dry at elevated ambient temperatures b) Wet at elevated ambient temperatures c) Resistance to corrosion	 – – –	 No delamination No delamination No corrosion
	Shrinkage: a) Machine direction b) Cross machine direction	 % %	 < 1.5 < 1.5
	Emissivity	–	< 0.05
	Water vapour permeance: Reflective surface fire index	g/(s.MN) Class	< 0.002 1
	Fire Performance: Tested in terms of SANS 10177-10	 Class	 B/B1/2
	Tensile breaking strength a) Machine direction b) Cross machine direction	 kN/m kN/m	 > 3.5 > 3.4
	Bursting strength	kPa	> 490
	Puncture resistance	mJ	> 1500
	Edge tear resistance a) Machine direction b) Cross machine direction	 N N	 > 70 > 50
	System thermal resistance: Reflective surface faciung hot surface	 (m2.K)/W	 > 1.4

INSTALLATION INSTRUCTIONS

1) Domestic specifications

One layer of Marley Ultra Radiant Barrier over rafters and under battens. Lay Marley Ultra Radiant Barrier longitudinally over the rafters working from the eaves to the ridge and lapped 150mm at joints.

Special precautions

The foil layer has a poor resistance to acids and alkalis and must not be used in contact with wet concrete or be exposed to a corrosive environment. Unless special precautions are taken, the atmosphere in the roof space can cause corrosion of the foil layer that will directly effect its emissivity and therefore its thermal insulation properties.

STORAGE:

Marley Radiant Barrier should be stored in a clean, dry environment and should not be exposed to direct sunlight.

INSTALLATION GUIDELINE:

1. Marley Radiant Barrier must be unrolled horizontally across the rafters with the printed aluminium side facing up.

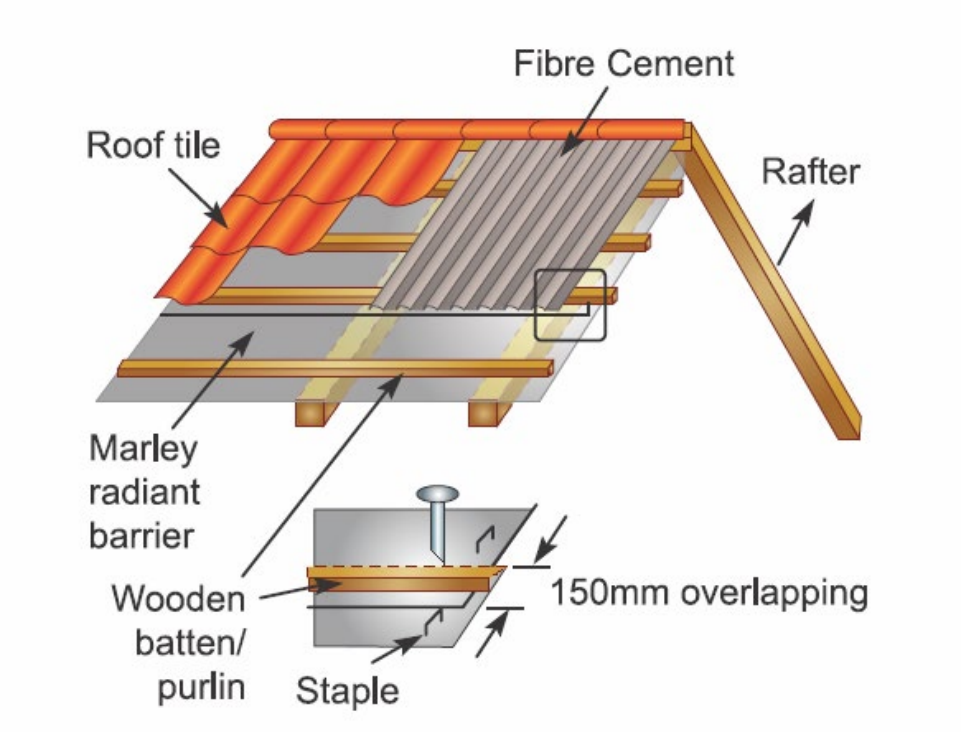
2. Marley Radiant Barrier must be overlapped by 150mm at all joins. 150mm overlap markings are printed onto the rolls for ease of use.

3. Marley Radiant Barrier must be fixed between the rafters and the battens/purlin.

4. To ensure maximum performance, an air-gap is required between the Marley Radiant Barrier and the roof tile/sheeting.

5. It is suggested that Marley Radiant Barrier be pulled hand-taut across the rafters. Do not excessively stretch the material.

6. Marley Radiant Barrier should not be left exposed to sunlight or wind for long periods of time.



WARNINGS:

There are special circumstances where unless special precautions are taken, the atmosphere in the roof can cause corrosion of the laminate that will directly affect its emissivity and therefore its thermal insulation properties.

Air space is vital between insulation foil and battens.

Under certain circumstances the aluminium foil may not be resistance to tarnishing and hence its reflective and emissive properties may be affected. Such conditions may include condensation, acidic vapors of sea salts and mists of corrosive liquids.

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