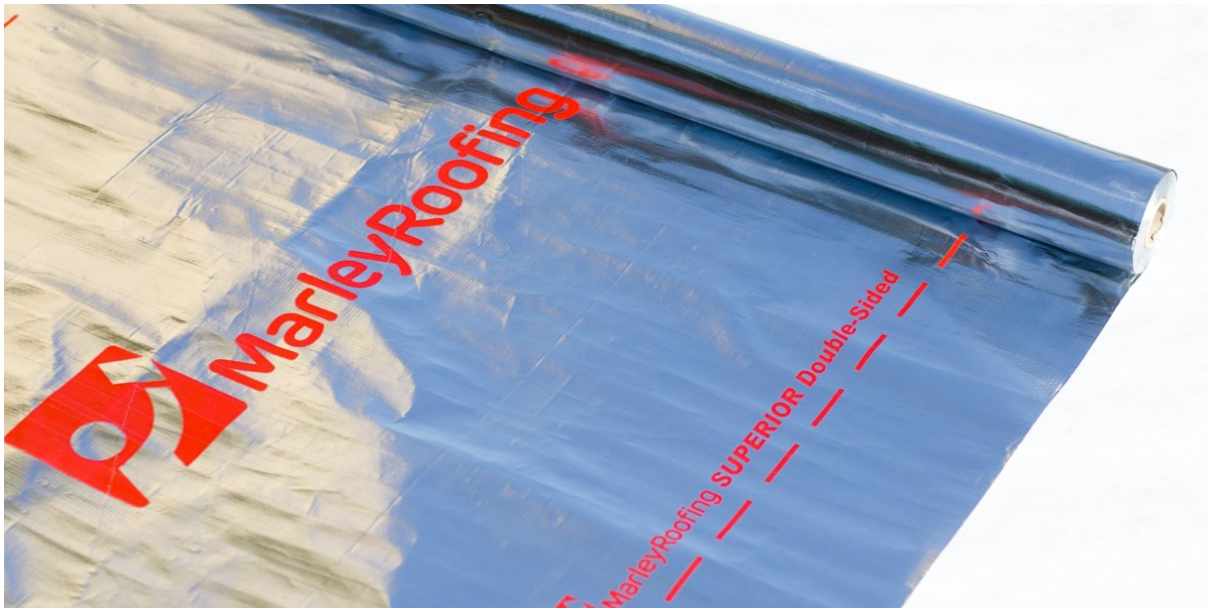
Marley Superior Double-Sided Radiant Barrier

Marley Roofing's new and improved Radiant Barrier range promotes longer lasting, high performance roofing systems with the added benefit of improved indoor temperatures and comfort.



PRODUCT CODE: 4066537

APPLICATION: Residential

ADVANTAGES (FEATURES & BENEFITS):

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

> Fused structure – no delamination

> Non–Combustible - Adheres to SANS 428, parts: SANS 10177-5 A (Non-Combustible, SANS 10177 – 10 A/A1

> Improved R-value (1.86) - improved indoor comfort and reduced energy consumption

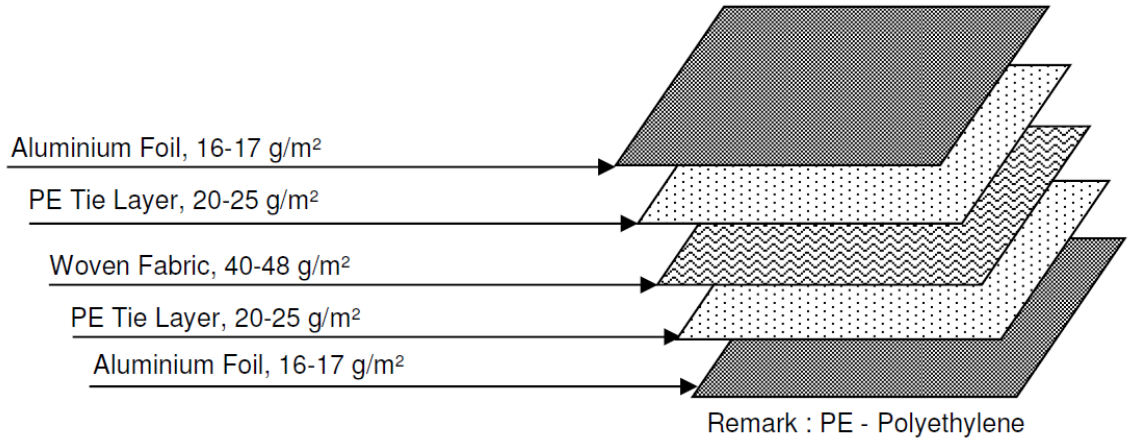
> Effective dust and moisture barrier – prevents rainwater penetration in extreme conditions

PRODUCT DESCRIPTION:

5 Layers laminate made up of double sided reflective aluminium foil bonded to reinforced high density polyethylene woven fabric with special material.

PRODUCT STRUCTURE:

AL / PE TIE LAYER / HDPE WOVEN FABRIC / PE TIE LAYER / AL



TECHNICAL INFORMATION:

Nominal coverage applying a 150mm overlap: 44m²

	CHARACTERISTIC	TEST METHOD	UNIT (SI)	SPECIFICATION
Laminated Roll Specifications	Width	In-house	mm	1250 ± 5
	Length	In-house	m	≥ 40
	Grammage	In-house	g/m²	117 ± 10%
	Mass Content	In-house	kg/roll	6.20 ± 10%
	Resistance to Dry Delamination *at elevated ambient temperatures*	SANS 1381-4	-	No delamination
	Resistance to Corrosion Wet delamination *at elevated ambient temperatures*	SANS 1381-4	-	No corrosion No delamination
	Shrinkage MD CD	SANS 1381-4	%	< 1.5 < 1.5
	Emissivity	SANS 1381-4	Index	≤ 0.05
	Water Vapour Permeance	ASTM E96	g/(s.MN)	≤ 0.002
	Fire Performance Classification	SANS 428 (SANS 10177 PARTS 5, 10)	Class	*PART 5 – A *PART 10 – 1/A1
	Tensile Breaking Strength MD CD	SANS 1381-4	kN/m	> 7.2 > 5.4
	Bursting Strength	ISO 2758	kPa	> 700
	Puncture Resistance	SANS 456	mJ	> 700
	Edge Tear Resistance MD CD	SANS 1381-4	N	> 100 > 100
	System Thermal Resistance *Air gap of 40mm (upper top) at 50°C* *Air gap of 60mm (lower bottom) at 10°C*	ASTM C 518	m^2K/W	1.41 ± 10%
	Steady-state Thermal Resistance *Air gap of 40mm (upper top) at 35°C* *Air gap of 60mm (lower bottom) at 20°C*	ISO 8302	m^2K/W	1.86 ± 10%

Rev. 1 (16-01-2018) – B14NN14B

*Fire performance classification test update March 2019 – FIRELAB CSIR

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.

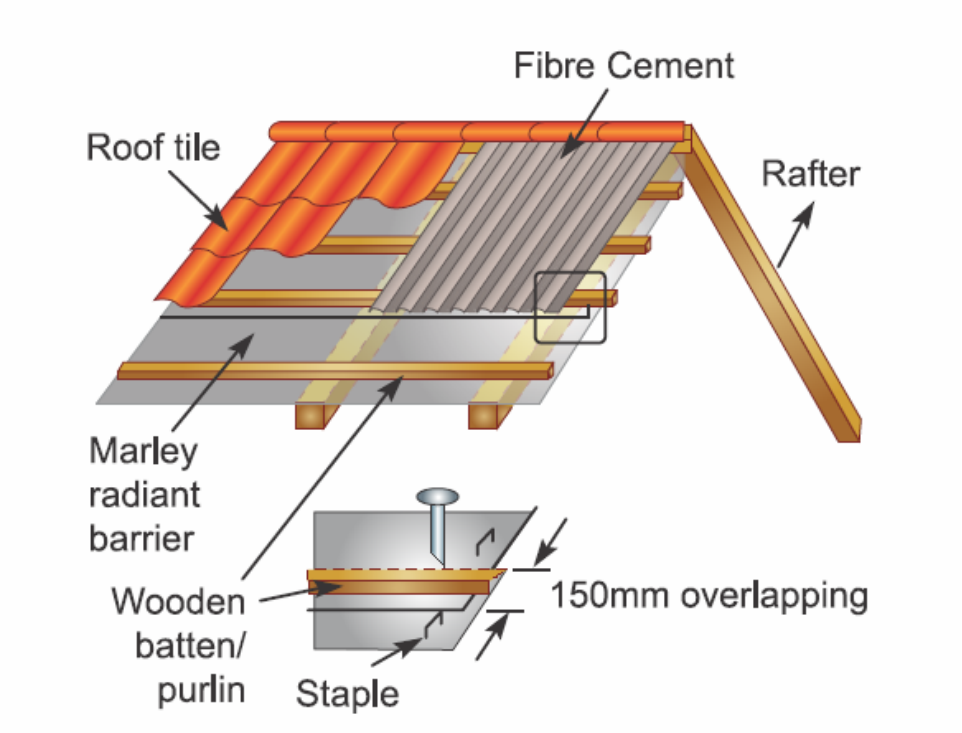
2. Marley Radiant Barrier must be overlapped by 150mm at all joins. 150mm overlap markings are printed onto the rolls for ease of use.

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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