

Marley Supreme 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: 4066538

APPLICATION: Residential

ADVANTAGES (FEATURES & BENEFITS):

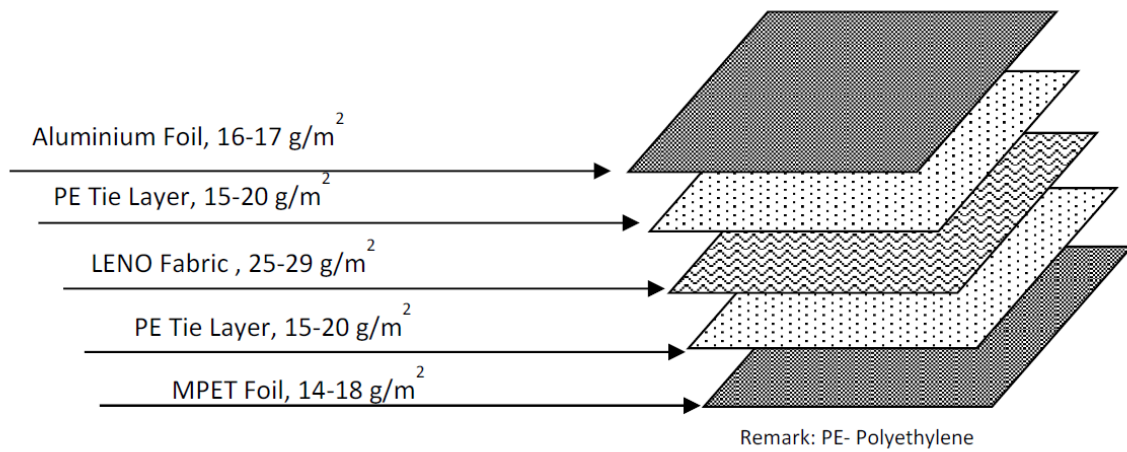
- > **Non-tear structure** – high tensile and nail tear strength
- > **Fused structure** – no delamination
- > **Adheres to SANS 428 fire rating**
- > **Improved R-values** – improved indoor comfort and reduced energy consumption
- > **Effective dust and moisture barrier** – prevents rainwater penetration in extreme conditions

PRODUCT DESCRIPTION:

5 Layers laminate made up of a double sided reflective material (Aluminium & Metalized) bonded to reinforce high density polyethylene leno fabric with special material

PRODUCT STRUCTURE:

AL / PE TIE LAYER / LENO FABRIC / PE TIE LAYER / MPET



TECHNICAL INFORMATION:

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

	CHARACTERISTIC	TEST METHOD	UNIT (SI)	SPECIFICATION
Foil / Film Spec.	Emissivity	ASTM C 1371	Index	≤ 0.05 (97 ± 2%) ≤ 0.50 (55 ± 5%)
	Aluminium MPET			
Laminated Roll Specifications	Width	In-house	mm	1250 ± 5
	Length	In-house	m	≥ 36
	Grammage	BS EN 965	g/m ²	90 ± 10
	Tensile Strength	In-house	N/50mm	≥ 350 ≥ 300
	MD CD			
	Elongation	In-house	%	≥ 14 ≥ 18
	MD CD			
	Tongue Tear Resistance	ASTM D 2261	N	≥ 35 ≥ 50
	MD CD			
	Resistance to Tearing (Nail Shank)	BS EN 12310-1	N	≥ 130 ≥ 125
	MD CD			
	Tear Propagation	DIN 53363	N/mm	≥ 95 ≥ 100
	MD CD			
Fire Performance Classification	SANS 428 (SANS 10177 PART 5 & 10)	Class	B/B1/2	
Water Vapour Transmission Rate	ASTM F 1249	g/m ² /day	≤ 0.10	
System Thermal Resistance	ASTM C 518	m ² K/W	1.36 ± 10%	
Air gap of 40mm (upper top) at 50°C Air gap of 60mm (lower bottom) at 10°C				
Steady-state Thermal Resistance	ISO 8302	m ² K/W	1.49 ± 10%	
Air gap of 40mm (upper top) at 35°C Air gap of 60mm (bottom lower) at 20°C				

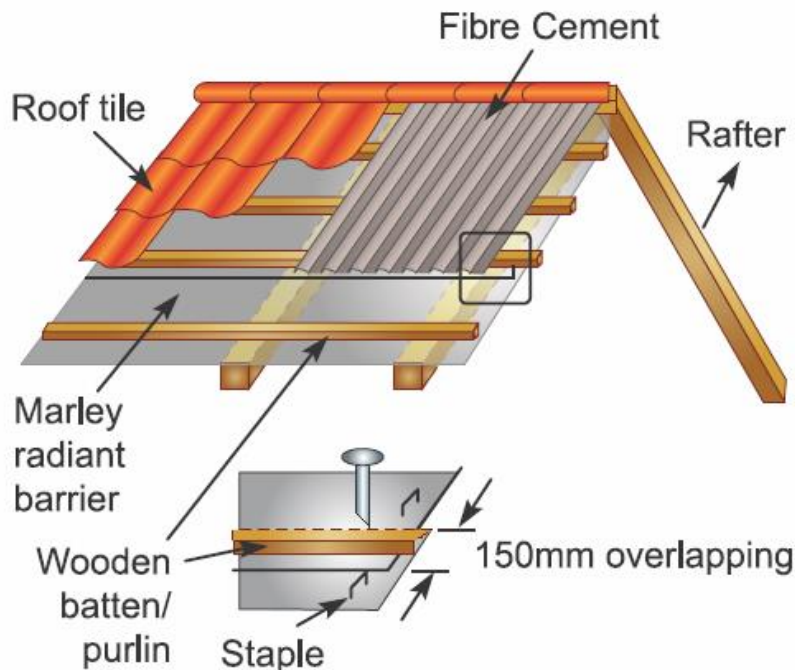
Rev. 1 (16-01-2018) – B56A00

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.

CONTACT DETAILS:

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