

# Marley Polywool multi-purpose polyester bulk batting insulation range

## **Marley Polywool Regular** for professional new build application:

Use as part of Marley's Dual Insulation System and achieve up to 60% cost saving per square meter, when compared to single 135mm+ bulk insulation, whilst meeting SANS 10400-XA:2021 deem to satisfy R-values! \*

\* Marley 50mm Polywool Regular + Marley Superior DS Radiant Barrier + Average Roofing Materials = 3.71 (Zones 1,2,3,4,5,6,7 deem to satisfy = 3.7)

\* Marley 40mm Polywool Regular + Marley Supreme DS Radiant Barrier + Average Roofing Materials = 2.76 (Zone 5H deem to satisfy = 2.31)



## Marley Polywool Lite for DIY retrofit application:

A cost effective retrofit, non-ich, safe and easy to install bulk insulation that slows down winter heat losses and summer gains to stabilize indoor temperatures that will result in energy savings!

### ADVANTAGES (FEATURES & BENEFITS):

- > **Easy installations for DIY retrofit or new builds** – flexible easy fit with no irritants and no special equipment or PPE required.
- > **Healthy choice** – no harmful VOC's and good resistance to bacteria, fungi, mildew, and fibre-devouring insects.
- > **Fire safe** – does not support the spread of flame (Class B/B1/2 fire rating).
- > **Use as part of Marley Dual Insulation System to achieve the best of radiation protection in the summer and heat losses during winter** – Marley Radiant Barrier stops radiation transfer and Marley Polywool seals, to slow down indoor temperature losses.
- > **Multi-purpose applications** – can be installed in roofs, ceilings, partitions, and external walls.
- > **SABS Mark\* and TIPSASA approved, with 20-year guarantee** – \*Marley Polywool Regular is SABS approved to SANS 1381-1:2007 Materials for Thermal Insulation of Buildings | Part 1: Fibre Thermal Insulation Mats.
- > **Environmentally Friendly** – Made from 80% recycled PET and 100% recyclable
- > **Long life whilst maintaining original R-value** – 50-year lifetime and will not compress or sag over time, hence R-values will remain the same during its lifetime.
- > **Moisture Friendly** – Moisture absorption = 0.78% (SANS 1381-1:2013 allows up to 2%)

**TECHNICAL DATA:**

Thickness	Density kg/m <sup>3</sup>	Lengths & width	Weight (tolerance +/-10%)	R-value (m <sup>2</sup> .K/W)
40mm Lite		10 x 1.2m		0.76
<b>40mm Regular</b>	10.1	10 x 1.2m	400 gm/m <sup>2</sup>	0.96
50mm Lite		10 x 1.2m		0.82
<b>50mm Regular</b>	10.1	10 x 1.2m	500gm/m <sup>2</sup>	1.15
75mm Lite		8 X 1.2m		1.37
<b>75mm Regular</b>	10.1	10 x 1.2m	750gm/m <sup>3</sup>	1.69
100mm Lite		6 x 1.2m		1.65
<b>100mm Regular</b>	10.1	6 x 1.2m	1000 gm/m <sup>2</sup>	2.2
130mm Lite		5 x 1.2m		2.06
<b>135mm Regular</b>	10.1	5 x 1.2m	1350 gm/m <sup>2</sup>	2.7
<b>145mm Regular</b>	10.1	5 x 1.2m	1450 gm/m <sup>2</sup>	3.05

**Combustibility:**

Combustible at over 750 degrees (determined in accordance with SANS 10177-8).

**Fire:**

B/B1/2/H (determined in accordance with SANS 428) Will not contribute to the spreading of flame and will self-extinguish when a heat source is removed.

**Specification Clause:**

Marley Polywool thermally bonded polyester insulation Roll, thermal and acoustic insulation installed between trusses, joists, studs or above suspended ceilings, SABS approved to SANS 1381-1:2007, non-combustible to SANS 10177-8 and B/B1/2/H to SANS 428. Compression packed.

**Fibre composition:**

80% recycled PET (locally sourced) & 20% virgin LMF.

**ENVIRONMENTAL:****Ozone depleting:**

Does not contain and did not produce any during production. No VOCs are used during the production of this material.

**Recycling:**

1 ton of Marley Polywool polyester insulation is manufactured from approximately 38 000 recycled bottles. The plastic bags used for transporting the material are made from virgin LDPE material and is 100% recyclable, Grade 4. The inks used in the packaging are food grade.

**HANDLING & STORAGE:****Safety Precautions:**

No particular hazards are known. The polyester fibres are not known to cause allergies. With correct use of this product no detrimental effects on health have been recorded.

**Transportation:**

The rolls are compressed into plastic bags and is classified as non-hazardous.

**Storage:**

Rolls to be stored under cover, laid horizontally, and stacked no more than 10 units high. Rolls should be kept dry and must not be exposed to a naked flame or any other ignition source.

## INSTALLATION GUIDELINES:

### Installation tools:

Marley Polywool polyester insulation can be easily torn or cut with a pair of industrial scissors or shears.

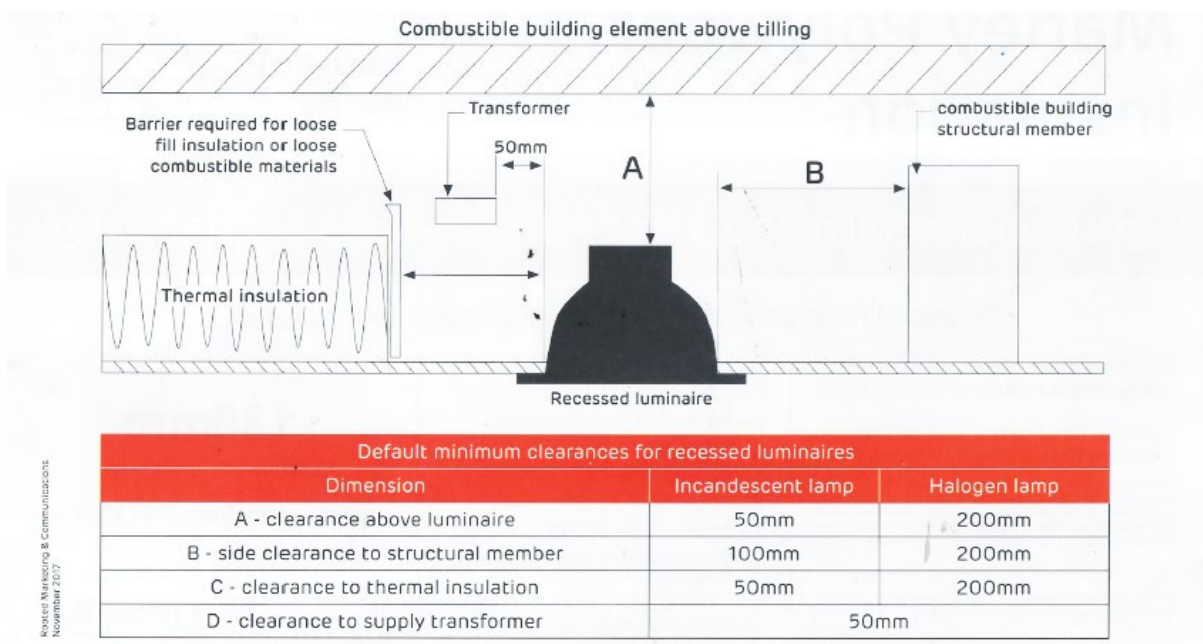
### Installation methods:

Lay loose on ceiling board or suspended between trusses with restraining wires at 300mm intervals.

The distance between roof trusses, ceiling joists and walls studs should be measured, and the appropriate roll widths used.

Marley Polywool rolls should be installed between the members and the ends of the rolls should be carefully butted or lapped to ensure that the insulation is continuous.

**Important! A 50mm gap should be created around downlighters, recessed lights, flue pipes or any low heat sources.**



## OTHER INFORMATION:

**Durability:** Marley Polywool does not physically deteriorate over time and does not require any maintenance.

Properties are such that the material will not be damaged during normal handling and installations.

**Fungal Attack:** Marley Polywool has good resistance to bacteria, fungi, and mildew, neither will fibre-devouring insects will not damage Marley Polywool polyester insulation since it is indigestible (tested in accordance with SANS 5484.)

**Moisture Absorption:** 0.78% (SANS 1381-1:2013 allows up to 2%)

## Marley Internal System Codes and Descriptions:

Product Code	Description
AIL051213	POLYWOOL LITE INSULATION 6Mx1200x130mm
AIL061210	POLYWOOL LITE INSULATION 6Mx1200x100mm
AIL081275	POLYWOOL LITE INSULATION 8Mx1200x75mm
AIL101240	POLYWOOL LITE INSULATION 10Mx1200x40mm
AIL101250	POLYWOOL LITE INSULATION 10Mx1200x50mm
AIN051213	POLYWOOL INSULATION 5Mx1200x135mm
AIN061210	POLYWOOL INSULATION 6Mx1200x100mm
AIN081275	POLYWOOL INSULATION 8Mx1200x75mm
AIN101240	POLYWOOL INSULATION 10Mx1200x40mm
AIN101250	POLYWOOL INSULATION 10Mx1200x50mm

*The manufacturer reserves the right to change or discontinue any of the specifications or products without notification. All goods are subject to availability and the company's conditions of sale which are available on request.*

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