



# Polynum™ SUPER

## Insulation For Roof & Wall



The **Polynum Super** insulation sheet is a trusted and renowned product specifically designed for thermal insulation in roofs and walls.

It ensures optimal thermal comfort by effectively reducing heat loss during winter and minimizing heat penetration in summer.

This three-layered solution incorporates reflective radiation barriers crafted from pure aluminum foil, boasting an impressive 97% infrared reflectivity.

Additionally, it features a layer of small air bubbles that work together to provide superior insulation, contributing to energy efficiency and maintaining a comfortable indoor environment year-round.

### Optional Products:

- Fire Retardant formulated
- Reinforcing Net



Against condensation  
Resistant to moisture



Reflect 97% IR



Thermal Insulation



Saving Energy



Green Building



Durability for Years



No eye & face protection  
required



Light weight & Thin



Easy to Install



Property	Units	Dir	Value
Nominal thickness	mm		4.0
Standard Roll Size	m X m		1.2mX50m
Standard Roll Weight (Gross)	kg		9.8 kg+/-
Emissivity (ASTM C 1371)			0.05
Reflectivity (ASTM C 1371)			0.95
Heat resistance (R)* – under roof (ASTM C 1363)	m <sup>2</sup> ·°C/W	Down	2.98
Heat resistance (R) – Concrete wall/ Plaster board	m <sup>2</sup> ·°C/W		2.0
Resistance to Corrosion	AS/NZS4859.1 (App.1)		Pass
Noise Reduction Coefficient (ASTM E-384)	%		45%
Tensile properties (ASTM C 1136-92)	g/cm-width	MD	>10kg/cm <sup>2</sup>
Puncture properties	g/cm-width		72 kg/cm
Fire Safety - EN 13501-1-2000			Pass
Water Vapor Transmission (ASTM E-96)	g / ft <sup>2</sup> · hr		0.018 (method A)
Fungal Resistance Test (ASTM C 1338)			No fungal growth
Dry Delamination	AS/NSZ 4201.1		Pass (<0.5%)
Thermal Stability Test for cracks @ 110°C ASTM 1136-92 & ASTM 1204-94			Pass
Thermal Stability Test: Linear dimensional Changes (such as shrinkage) @ 110°C	ASTM 1136-92 & ASTM 1204-94		Pass