

PARAMOUNT RADIANT BARRIER HYBRID REFLECTIVE INSULATION



Paramount Radiant Barrier Hybrid Reflective Insulation is composed of three layers of Polyethylene Foam, one diamond-cut layer (to create air pockets) sandwiched between two layers of chemically cross-linked closed cell polyethylene foam which is factory laminated with pure Aluminium foil (a low emitting material) on the outer side of the foam material.

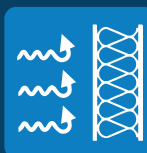
Paramount is the First in World to manufacture this type of Radiant Barrier Hybrid Reflective Insulation which is a vapor barrier (solid, non-breathable), heat reflective, hybrid in nature product that is manufactured with a uniquely combined "Air Entrapment + XLPE Technology" which provides a thermal break to minimize conductive heat from moving through the material.

It comes in multiple variations and various thicknesses of 20 mm, 30mm and 50 mm to fit different applications. Any desired thickness can be manufactured based on the requirement of U-Factor of your project.

ADVANTAGES OF PARAMOUNT RADIANT BARRIER HYBRID REFLECTIVE INSULATION



Thermal Conductivity - It has an extra layer of XLPE as compared to normal insulation, also has offers excellent thermal conductivity i.e. 0.025 W/m K at 23 °C. It is also suitable for a wide range of temperature from -40 °C to +115 °C.



Moisture Resistance - It remains unaffected by most mild acids and alkalis and offers high resistance to ingress of moisture, as a result, its thermal properties remain unaltered with time.



Air Entrapment + XLPE Technology - It blocks radiative heat and heat transfer through conduction and convection. It also enhances the overall acoustic property and helps in reducing rainwater noise in metal roofing



Paramount Intercontinental Pvt. Ltd.

M-2, Industrial Area, Sonipat-131001, Haryana, India

Technical Properties

Insulation Property	Insulation Property Parameter
Fire Propagation Index	Class-O as per BS476 Part-6 (CBRI Approved)
Fire Spread Flame	Class-1 as per BS476 Part-7 (CBRI Approved)
Solar Direct Reflectance	0.7729
Solar Reflectance Index (SRI)	83 High Wind ($hc = 30W / m^2 k$)
Emissivity	0.07
Surface Temperature	76.8 – 44.2 Low Wind to High Wind ($hc = 30W / m^2 k$)
Average Density	20 to 25 kg/m ³
Working temperature	-40°C +115°C
Water Vapour resistance (μ)	12805
Oxygen Index	27.7% (ASTM D 2863)
Thermal Transmittance (U-Value)	50mm – 1.113 W / m ² k 30mm – 1.248 W / m ² k 20mm – 1.274 W / m ² k
Thermal Resistance (R-Value)	50mm – 0.898 m ² k/W 30mm – 0.801 m ² k/W 20mm – 0.785 m ² k/W



Sound Absorption – Sound transmission loss is 51.7 dB at 5000 Hz Frequency as per ISO 1014 – 2 / ASTM E-90



Safe – Class O and Class 1 fire rated as per BS476 Part –6 and Part – 7 (highest and safest fire rating for building products in India)



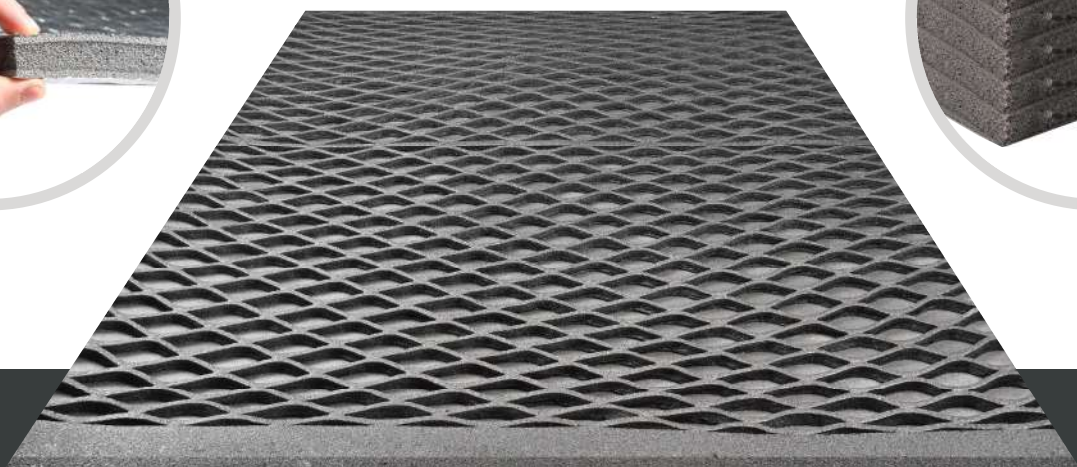
Durable – Puncture and tear resistant, coated to prevent oxidation and UV degradation.



Energy Efficient – Reduces heat gain and loss, not affected by moisture or humidity and reduces condensation.



DIAMOND-CUT LAYER



VISIT OUR WEBSITE

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