



Dear Sir,

Greetings from "MCS SYSTEMS INDIA LLP"!!!

It is a great pleasure to introduce "Aluminium Foil Insulation Foam Sheet - Roll" by "**FLOOR GUARD**".

MCS is new research technology base on multilayer composite solution

This is an environmentally friendly product which has good heat preservation and insulation properties. The outer layer of Foil provides excellent abrading and tears resistance. The layer of AL/EPE shows strong ability in the barrier of moisture

= > 6 - Layer MCS Aluminium Foil Insulation Foam Sheet Roll - **Advantages:**

- This aluminium insulation roll has no nocuous substance and accord with the international standards
- It does not generate any pollutant bringing harm to people's health
- This industrial insulation roll with EPE foam is a high-quality material for warm-keeping and energy saving, which is the killer of dew forming and the transmission of cold and heat. It insulates any heat media with stable and low thermal conductivity.
- Its light in weight It could absorb sound, reduce noise, and provide a cushioning function
- This insulation foam sheet is water and leak-proof, easy to be processed and installed
- Its durable in use and endurable to heat, cold and chemical reaction

For more details, kindly contact our sales team for some of the pictures & videos which show the real strength of this product

If you have any further query on the same, please do not hesitate to write or call

Hope to hear a positive response from you soon

For.

MCS Systems India LLP,

Ahmedabad, Gujarat

**MCS SYSTEMS INDIA LLP**

B16B, Basement, Shree Krishna center, Mithakhali, Navrangpura, Ahmedabad, Gujarat – 380009.

Website: [www.floorguard.in](http://www.floorguard.in) Mob. No: +91 7359989777, +91 7016431978.



= > 6 - Layer MCS Aluminium Foil Insulation Foam Sheet Roll – **Usage:**

- Heat insulation and light reflecting in construction and protection for both cold water and hot water pipe.
- Separation of refrigerator; Warm keeping for central air-conditioner, refrigerator and other home appliances.
- Heat insulation, sound absorption and noise reduction for car, train, refrigerator car and laboratory; Moisture proof cushion for traveling.
- Packing for special products and cold storage.
- Can be made into different colours and anti-static according to customers specific requirements to reach the standards of top-grade decoration.

= > 6 - Layer MCS Aluminium Foil Insulation Foam Sheet Roll – **Applications:**

- Residential construction in attics, walls, ceilings, and radiant floor heating.
- Industrial or commercial buildings.
- Agricultural buildings.
- Warehouses, Cold storages.
- Roof Tops.
- Airconditions duct Lines.

= > 6 - Layer MCS Aluminium Foil Insulation Foam Sheet Roll – **Basic Info:**

**Model No.**

MCS aluminium foil laminated insulation roll.

**Number of Layers**

6 Layers

**Application**

House (Roof/Wall/Floor), Building

**Thickness**

5mm

**Trademark**

MCS

**Transport Package**

PE Bag-WOVEN SACK BAG

**Specification**

Customized

**Origin**

Gujarat-India

**HSN Code**

39211900

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Typical Physical Properties				
Thickness	Length	Width	Foam Structure	Sq.mtrs/roll
5mm	20mtr	1.25mtr	Closed-cell Foam	25m <sup>2</sup>

Max R Value	Noise Proof
	Noise Reduction

Thermal Performance		Water Performance	Application Conditions
Reflectivity	Emissivity	Water Proof	Temperature
95%	0.05	100%	-20°C=70°C

= > 6 - Layer MCS Aluminium Foil Insulation Foam Sheet Roll – **Working Principal:**

- The aluminium foil can reflective 97% radiant Heat and Cool.
- The Tiny air cell can slow down the heat conduction and block heat convection.
- The EPE Foam will not be unaffected by humidity and ensure the best living condition both in extreme hot and cold climate, which also can reduce the noise and keep warmer.

### Why MCS Aluminum is the Best:

It's Multilayer Composite Solution technology gives best result in high temperature and can reduce 10 to 15% heat under the insulated area, it provides:

1. **Superior Insulation:** The combination of Crosslink polymer layers and a pure aluminum layer with EPE foam and woven sack provides superior thermal insulation, making it more efficient in maintaining indoor temperatures.
2. **Durability:** The multi-layered structure, including woven sack fabric and EPE foam, offers enhanced durability and resistance to wear and tear, extending the lifespan of the insulation.
3. **Moisture Resistance:** The use of EPE foam and Crosslink polymer ensures excellent moisture resistance, protecting buildings from potential moisture-related damage.
4. **Acoustic Performance:** The EPE foam layer provides good acoustic insulation, reducing noise pollution.
5. **Fire Safety:** It is highly fire resistant due to layered with aluminium.
6. **Long-Term Value:** many long-term benefits in terms of energy savings, durability, and performance make it a cost-effective solution over time.
7. **Installation:** it is easy to stick with fevicol sr-998 on steel and concrete structure.

This comprehensive analysis highlights that the advantages of MCS 6-Layer Aluminum Foil Laminated Insulation Rolls over traditional air bubble metal foil insulation, demonstrating why it is a superior choice for various insulation needs while bubble product with high thickness and weight are not easy to install and highly flammable.

### MCS SYSTEMS INDIA LLP

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= > Comparison Chart between **6 - Layer MCS Aluminium Foil Laminated Insulation Rolls** and **Air Bubble with Metal Foil Laminated Roll**

Feature	MCS 6-Layer Aluminum Foil Laminated Insulation Roll	Air Bubble with Metal Foil Laminated Roll
Layers	6 Layers which consists of 3 Layers of Crosslink Polymer, 1 Layer of original Aluminum Foil, 1 Layer of EPE foam and 1 Layer of Woven Sack Fabric	Typically 3 Layers which consists 1 Layer of Air Bubble, 2 Layers of Metallic Foils
Thickness	5 mm	Generally varies around 4-20 mm
Thermal Insulation	High thermal reflectivity due to Pure Aluminum Layer	Moderate, depends on bubble size and foil quality
Durability	High as it has built with multilayer composite solution technology	Moderate, susceptible to punctures and wear over time
Moisture Resistance	Excellent as EPE foam and Crosslink Polymer prevent moisture ingress	Moderate, air bubbles can sometimes trap moisture
Ease of Installation	Easy as it is Lightweight and Flexible	depends, as per thickness and weight
Acoustic Insulation	Good as it has due to cell structure closes	Limited, primarily designed for thermal insulation
Fire Resistance	High as it is combined with Aluminium Foil	it is easy to get fire in metallic foil
Applications	Versatile, suitable for roofs, walls, floors, ducts cab be use vertical & horizontal and HVAC systems	Typically used in roofs and walls
Self-Life	More than 15-20 years as very high tensile strength	5-10 years because it gets rusted due to metallic properties.
Temperature Reduction %	due to build with multilayer composite solution it can able to reduce 10-15 % temperature in just 5mm	To achieve a better reduction in temperature, it is necessary to increase both thickness and weight.



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