



The ideal
**SOUND PROOF
REFLECTIVE
INSULATION**
Energy Saving & Eco-Friendly



INNER ENGINEERING PRODUCTS AND SYSTEMS PVT LTD



MAHARASHTRA



GOA



GUJARAT



MADHYA PRADESH



CHHATTISGARH



**INNER[®]
ENGINEERING**

DESIGN • COMFORT • INSULATION

EXCLUSIVE AUTHORISED DISTRIBUTORS FOR WEST REGION

BENEFITS

Available colour :  Off-White

Conserves energy & reduces operating energy costs | Fibre-free and non-allergenic | No risk of airborne fibres contaminating indoor air quality | 2-in-1 insulation: does not require mesh for support (self supporting) | Natural vapour barrier: water resistant and not affected by humidity | Corrosion free, shrinkage free, strong and durable | Fire retardant: meets international insulation fire standards | Quick and easy to install | **Good acoustic performance**

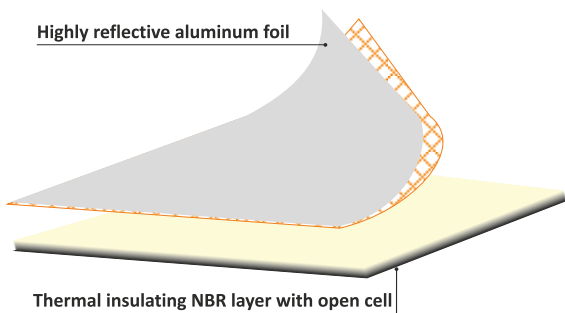
DEFINITION

Elasto roof is a NBR foam insulation sheet laminated on one side with highly reflective aluminium foil and on the other side it is open cell. It reduces 95% of radiant heat, minimizes condensation and reduces noise transmission.



USER MANUAL

1. Spread the GI Mesh on Roof across the purlin
2. Cut the insulation sheet according to the size of Purlin
3. Spread out the cut sheet on the GI mesh
4. Put the GI sheet on top of it and fix on purlin with screw



TECHNICAL SPECIFICATIONS

| Parameters | Unit | Value | Standard |
|--|--------------------|---|------------------|
| Material | | NBR Foam with highly reflective Aluminum foil | |
| Nominal thickness | mm | 7.5 | |
| Packing Standard (WxL) | m | 1.2x40 | |
| Density | kg/m ³ | 40-60 | ASTMD1056 |
| Service Temperature | °C | -40 to +110 | |
| Emissivity | % | 5 | ASTM C1371 |
| Reflectivity | % | 95 | ASTM C1371/E903 |
| Thermal Conductivity @ 20°C | W/mK | ≤0.033 | |
| Thermal Resistance @ 20°C | M ² K/W | 0.227/0.106 | ASTM C423/ISO354 |
| Water vapor diffusion resistance index | | ≥12000 | ASTM E-96 |
| Bleeding & Delamination Test | | Pass | ASTM C1224 |
| Corrosion Risk | | | pH7 (Neutral) |
| Fungal resistance test | | No growth | ASTM G21 |
| Ozone Depleting substances (CFC/HCFC) | | Not detected | |
| Surface flame spread | | Class 1 | BS-476 Part 7 |
| Rate of Burning | | Pass | HB (UL 94) |
| Practical Fire Behavior | | Self-Extinguishing, ASTM D635 does not drip & flames. | |
| Odour | | Negligible | |

APPLICATION

Roof - Steel panel construction

Commercial spaces | Factories | Hangers | Warehouse

Roof - Non steel construction

- Residential Buildings

* GI wire may be used under gaps to support insulation sheet.

EFFECT OF FIRE - AFTER BEING EXPOSED FOR 30 SECS. IN FLAME

| Bubble foam with both side Alu foil | Nitrile insulation with one side Alu foil & one side open skin | XLPE foam with one side Alufoil & one side open skin |
|---|--|--|
| | | |
| | | |
| Bubble foam plastic bubble melted and lost its insulation property. | NBR self extinguishes & does not spread flame. | XLPE continues to burn even after removal of flame and produces fire dripping. |



INNER ENGINEERING PRODUCTS & SYSTEMS PVT LTD

Registered Office (Ahmedabad)

- Ground Floor, Showroom No. 3, Brooklyn Tower, Next to YMCA Club, S.G Highway, Ahmedabad - 380015, Gujarat, India.
- Branch Offices (Pune - Vadodara)
- Office No 501, Fifth Floor, Archway, Plot No 5, Sopan Baug Society, Survey No 2/1, Balewadi, Pune- 421045, Maharashtra, India
- 713/A, Atlantis Heights, Opp. Swagat Petrol Pump, Nr, Genda Circle, Vadodara - 390021, Gujarat, India

Disclaimer: Although these values represent actual results achieved in tests, they should only be used as a guide. ALP Aeroflex cannot guarantee the performance of the product as all situations are different & should be treated separately. All statements & technical informations are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the informations are appropriate for specific use intended by the recipient.