



Lancaster Insulation – Trapezoidal Acoustic Roof Inserts

Technical Data Sheet

Description

Lancaster Insulation Trapezoidal Acoustic Roof Inserts are precision-cut semi-rigid mineral fibre slabs designed in trapezoidal sections to perfectly fit within the profile of perforated metal roof panels. Engineered for superior acoustic performance, these inserts reduce noise levels and reverberation in large interior spaces by absorbing sound energy passing through the perforated surfaces. Supplied in 1200mm lengths, they are available in a wide range of densities (45–120 kg/m³) to optimise both acoustic and thermal performance. Options include a durable white or black glass tissue finish, or additional Mylar polyester film sleeving for enhanced humidity and moisture resistance.

Features & Benefits

Features	Benefits
Precision trapezoidal cut	Perfect fit to metal roof profiles for easy installation and optimum coverage
Range of densities: 45, 60, 80, 100, 120 kg/m ³	Tailored acoustic and thermal performance
White or black 70gsm glass tissue facing	Enhanced durability and aesthetic finish through perforations
Optional Mylar polyester sleeving	Additional protection against humidity and moisture
Non-combustible mineral fibre	High fire safety rating
1200mm standard lengths	Simplifies installation and minimises waste

Applications

- Acoustic treatment for buildings with perforated metal roofing systems
- Ideal for sports halls, factories, warehouses, and commercial spaces
- Reduces reverberation and improves speech intelligibility
- Can be integrated with additional acoustic slabs or polymeric barriers for high-performance sound control

Installation Guidelines

Place inserts directly into the recesses of the corrugated or trapezoidal metal panels, ensuring a flush upper surface for contact with any overlay materials. The lightweight yet semi-rigid construction allows rapid fitting without mechanical fixings in most applications.



Technical Properties

Property	Value
Supplied Length	1200mm
Sectional Dimensions	Profile-matched to suit roof panel manufacturer's specification
Available Densities	45, 60, 80, 100, 120 kg/m ³
Surface Finish	White or black glass tissue overlay
Tissue Weight	70gsm
Combustibility	Non-combustible
Optional Protection	Mylar polyester film sleeving for moisture resistance

Storage & Handling

Store inserts in a dry, covered area away from direct sunlight and moisture. Avoid excessive stacking to prevent deformation. Handle with care to maintain edge integrity.