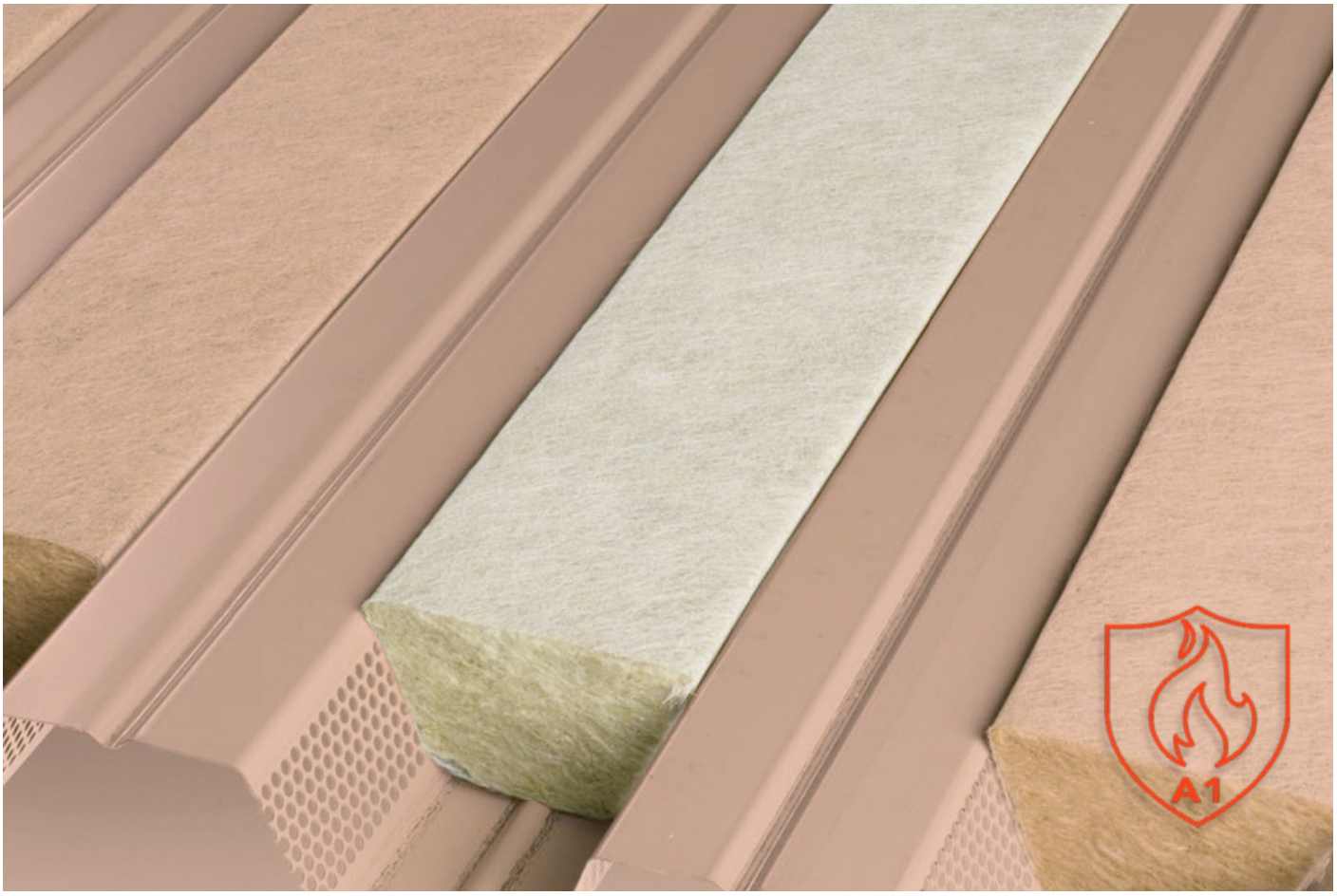
QUANTUM INSULATION

Product Data Sheet

ACOUSTIC INFILLS



High performance sound absorption for perforated metal decks.

Manufactured by ROCKWOOL

ACOUSTIC INFILLS

General Information

Acoustic Infills combine optimal density, random fibre orientation and excellent fit to provide a significant improvement in sound absorption when used within the troughs of perforated metal roof decks. The product is wrapped in a factory-applied acoustically-transparent white tissue facing for improved aesthetics.

Applications

Acoustic Infills are used across all sectors, including commercial, industrial, leisure, health and educational. They are used to control noise in convention and sports halls, swimming pools, manufacturing plants

Performances

The ability of the underside of the following roof build-up to absorb sound was tested to BS EN ISO 354:

- Acoustic Infills within perforated TATA D60 perforated steel deck (13% open area).
- Vapour control layer.
- 210mm ROCKWOOL HARDROCK® Multi-Fix.
- Mechanically fastened single ply membrane.

DECLARED PERFORMANCE						
Frequency (Hz)	125	250	500	1000	2000	4000
Practical Absorption Coefficient	0.55	0.95	1.00	0.90	0.60	0.40

Weighted absorption coefficient $\alpha_w = 0.60$

TECHNICAL INFORMATION: Standards & Approval	
EN ISO 11654	Class C absorber
ASTM C 423-01	NRC 0.90

DIMENSIONS				
To suit TATA deck	Length (mm)	Major (mm)	Minor (mm)	Thickness (mm)
D46	1200	116	63	42
D60	1200	106	60	55
D100	1200	120	59	95
D135	1200	161	39	130
D159	1200	138	34	150

Acoustic Infills to suit other deck types may be available upon request, subject to a minimum order quantity. For more information please contact your local QI representative.

Density

The standard density of Acoustic Infills is 60kg/m^3.

Handling

When handling Acoustic Infills they should be properly supported along their length.

Weather Protection

Acoustic Infills should be stored under cover. Acoustic Infills that have become wet should be allowed to fully dry out naturally before use, at which point they should regain their original properties. For more information please contact Technical Solutions on 01858 456018.

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Installation Instructions

Insert Acoustic Infills directly into the troughs of the metal deck, ensuring that all joints are tightly butted. Individual Acoustic Infills can be cut down to shorter lengths using a sharp knife if required.

Specify SPRA

The Single Ply Roofing Association (SPRA) represents membrane manufacturers, associated component manufacturers and specialist subcontractors, and aims to ensure the delivery of best value single ply roofing systems, through a quality assured partnership. By specifying products and specialist installation by SPRA Manufacturer, Associate and Contractor members you can be assured that all parties meet strict quality criteria.

Compliance with these criteria and with the Code of Conduct is assessed at application, by annual audit and by random spot checks. For further information, and to obtain copies of the SPRA Design Guide and other documents, go to www.spra.co.uk or call 0115 914 4445.

Sustainability

As an environmentally conscious company, QI promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All QI products provide outstanding thermal protection as well as four added benefits:

Health & Safety

The safety of Rockwool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC: fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from **www.quantuminsulation.com** to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Made from a renewable and plentiful naturally occurring resource, Rockwool saves fuel costs and energy in use and relies on trapped air for its thermal properties. Rockwool does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP). Rockwool is approximately 97% recyclable. For waste Rockwool material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.

For further information on Quantum Insulation products and services please call **01858 456018** or email **sales@quantuminsulation.com**

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