



LAMEEKOUST® DELTA:1 and DELTA:2 SOUND ABSORBENT PANEL SYSTEMS

The Lameekoust Delta Panel System, incorporating a high performance, inert, non-combustible, vermin and mould resistant, and low bio-persistence, bio-soluble, sound absorptive material, has been developed for use in demanding environments such as underground transport systems.

Unlike mineral fibre and other materials, which normally incorporate smoke-emitting binders, the base material of the Lameekoust Delta System is a modified calcium-magnesium-silicate blanket manufactured without binders and which, if ingested, has enhanced solubility in the human body.

Combined with a zero-smoke, micro-mesh, grey-tone facing behind a perforated front panel, the Lameekoust Delta:1 System is considered to be a significant advance in terms of material systems with enhanced safety factors suitable for use in restricted spaces such as underground platforms and passageways, the basic mill-aluminium finished product having been independently tested (*) and shown to comply with BS 476 Part 6 Fire Propagation, with BS 476 Part 7 Class 1 Surface Spread of Flame, with BS 6853: 1999 D8.4 Category 1 A, and with the London Underground Engineering Standards Toxicity Test. The product may be supplied with a polyester powdercoat finish when specified and, as a further alternative, the Lameekoust Delta:2 System has a low-smoke, black-tone, glass fibre material facing behind the perforated front panel and is available for applications where fire and smoke rating is not a requirement and a black facing is selected for architectural or other reasons.

The inherent acoustic performance of the product may be moderated by the mounting arrangement, the Certified (**) Octave Band Sound Absorption Co-efficients, for a typical tunnel lining configuration, being as follows:

Octave Band Centre Frequency Hz	125	250	500	1000	2000	4000
α p Micro-mesh (Δ:1)	0.90	0.90	0.95	1.00	1.00	0.95
α p Black-tissue (Δ:2)	0.90	0.85	0.85	1.00	0.95	0.90

(*) Independently tested by the Building Research Establishment (BRE) Garston, UKAS Accredited Testing Laboratory No.0578, Test Reports Nos. 232992, 232994, 232995, 232996 and Test Evaluation Report 232996A.

(**) Independently tested in accordance with BS EN ISO 354: 2003 and BS EN 11654: 1997 by the Acoustical Investigation and Research Organisation Limited, UKAS Accredited Testing Laboratory No. 0483.

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