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## Class '0' Acoustic Foam

Class '0' Acoustic foam can be used in preference to Mineral Wool/Glass Fibre insulation materials, as it will not shed fibres or release particulate matter, yet still offers comparable acoustic performance and the necessary fire specification performance.

### Physical Properties – Foam

Density in Kg/m <sup>3</sup> to BS4443	80 (min) to 100
Thermal Conductive W/MK	0.048
Working Temperature Range	-30'c / + 100'c
Classification to BS3379	A
Hardness (Newtons) to BS4443	40-180
Tensile Strength Kpa Min BS4443	70-75
Elongation at Break % Min BS4443	150
Compression Set % Max BS4443	12-13%
Standard Colour	Black

### Typical Flammability Properties – Foam

Building Regulations 1985 Para A8 (b) Doc B	Class '0'
BS476 Part 6 Fire Propagation Index (1)	8.5
Sub Index 1.1	2.7
Sub Index 1.2	4.5
Sub Index 1.3	1.3
BS476 Part 7	Class '1'
BS476 Part 5	Non Ignition
BS7175 Section 2 No;-7 CRIB	Pass
BS6853 Part B 5.3	< 5
BS5652 Part 2 No;-5 CRIB	Pass
FTS 15 4 X No;-7 CRIBS (for thickness .27mm)	Pass
FMVSS302 Self Extinguishing	Pass
Oxygen Index LO1	50
Smoke Maximum Obscuration % BS511	60

CAA Spec. 8/FAA 25 CHAR1-3

### Random Incidence Sound Absorption Coefficient – Foam (BS3638 1987)

Frequency	125	250	500	1K	2K	4K	NRC
12mm Thick	0.08	0.14	0.22	0.32	0.40	0.53	0.27
25mm Thick	0.16	0.29	0.42	0.56	0.69	0.76	0.49
50mm Thick	0.23	0.49	0.70	0.88	0.92	1.02	0.75

Noise Reduction Coefficient (arithmetic average of values at 250, 500, 1K and 2K HZ)

**Additional Options** : Available with self-adhesive backing and die cut to drawing (depending on quantity). A range of facings are also available for laminating to the foam including a class '0'.

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