

TECHNICAL DATA SHEET

PRODUCT NAME: MCFOAM SOUND INSULATION PANEL				
PANEL STRUCTURE		Top Layer		
		Middle Layer		
		Bottom Layer		
Layer Name	Construction Material		Layer Thickness	
Top Layer	Closed Cell Cellular Polyethylene Foam		12 mm	
Middle Layer	Open Cell Cellular Polyurethane Foam		25 mm	
Bottom Layer	Closed Cell Cellular Polyethylene Foam (30% Perforated)		12 mm	
Total Thickness			50 mm	
Standard Panel Size (Width x Length)			1m x 1m	
Specification		Value	Test Method	Test Institution
Sound Absorption Coefficient	250 - 750 Hz frequency range	0.3 - 0.6	ASTM-C384-85	ITI, Sri Lanka
	750 - 1750 Hz frequency range	0.6 - 0.8		
	1750 - 4000 Hz frequency range	0.7 - 0.8		
Density (kg/m ³) (For Closed Cell Cellular Polyethylene Foam Only)		35.80	BS 4443:Part 1 Method 2	ITI, Sri Lanka
Density (kg/m ³) (For Polyurethane Foam Sheet only)		12	SLS 1335 : 2008	SLSI, Sri Lanka
Tensile Strength (Mpa) (For Closed Cell Cellular Polyethylene Foam Only)	Machine Direction	0.42	BS 4443 : Part I Method 3A	ITI, Sri Lanka
	Cross Direction	0.26		
Elongation at Break (%) (For Closed Cell Cellular Polyethylene Foam Only)	Machine Direction	115	BS 4443 : Part I Method 3A	ITI, Sri Lanka
	Cross Direction	77		
Tearing Strength (N) (For Closed Cell Cellular Polyethylene Foam Only)	Machine Direction	6.6	BS 4443 : Part 7 Method 17	ITI, Sri Lanka
	Cross Direction	14.0		
Compression set (25%) (For Closed Cell Cellular Polyethylene Foam Only)		3.0	BS 4443 : Par 1 Method 6A	ITI, Sri Lanka
Thermal conductivity (For Closed Cell Cellular Polyethylene Foam Only) (W.m ⁻¹ .K ⁻¹)		0.04	ASTM C518 : 1991	PSB Singapore
Surface Spread of Flame Test (For Closed Cell Cellular Polyethylene FR Foam Only)		Class 1 Y	BS 476 : Part 7 : 1997	PSB Singapore
Water absorption, g/cm ³ (after 72 hours) (For Closed Cell Cellular Polyethylene Foam Only)		0.03	Internal Test Method by ITI	ITI, Sri Lanka
Moisture Permeability, g/mm ² (after 72 hours) (For Closed Cell Cellular Polyethylene Foam Only)		50	Internal Test Method by ITI	ITI, Sri Lanka