

## TECHNICAL INFORMATION SHEET

### Description

**SuperPhon HardFace** is a highly sound-absorbent acoustic treatment encased in perforated, galvanised steel, making it suitable for high-traffic areas and environments where vandalism may be an issue, such as prisons, police stations and industrial areas. Visually, the perforated steel casing conveys a strong contemporary aesthetic feel, ideal for residential or commercial applications, which can be powder-coated in any RAL colour to complement any interior.

Black or white glass tissue facings or Melinex can be applied to the acoustic core to enhance the product's appearance and protect from the majority of common substances. Alternatively, a range of coloured fabrics in Cara or Lucia styles can be employed for greater aesthetic flexibility.

### Physical Information

#### Dimensions

Standard thicknesses: 50mm / 75mm / 100mm (25mm panels also available on request)  
Standard widths: 300mm (50mm, 75mm & 100mm thick)  
450mm (50mm & 75mm thick)  
600mm (50mm & 75mm thick)

Non standard slab sizes and thickness are available upon request.

### Technical Information

#### Acoustic Performance

There are two **SuperPhon HardFace** options available:  
Standard (45Kg/m<sup>3</sup>) and High Density (100Kg/m<sup>3</sup>).

#### Standard Variant

Thickness	Width (mm)	Frequency (Hz)					
		125	250	500	1000	2000	4000
50mm	300 / 450 / 600	0.25	0.65	1.05	1.10	1.05	0.96
75mm	300 / 450 / 600	0.50	1.05	1.20	1.15	1.10	1.13
100mm	300	0.80	1.15	1.20	1.15	1.10	1.10

#### High Density Variant

Thickness	Width (mm)	Frequency (Hz)					
		125	250	500	1000	2000	4000
50mm	300 / 450 / 600	0.35	0.85	1.10	1.10	1.15	1.05
75mm	300 / 450 / 600	0.44	1.00	1.00	1.00	1.00	1.00
100mm	300	0.75	1.10	1.15	1.15	1.15	1.05

Other thicknesses are available upon request.

#### Fire Performance

The Mineral Fibre Slabs (acoustic core) conforms to BS 476 Part 4 Non-combustible if plain. The perforated galvanised steel casing is Class '0' compliant in accordance with BS 476 Parts 6 & 7.

#### Moisture Resistance

The acoustic core is resistant to humidity and moisture, a property which can be enhanced by the application of glass tissue or Melinex facings.

### Benefits

- Resistant to malicious or accidental damage
- Excellent acoustic insulation properties
- Excellent thermal insulation properties
- Fire and temperature resistant
- Chemically inert
- Easy to install
- Vermin and rot resistant
- CFC and HFC free



## Technical Information (continued)

### Thermal Conductivity (W/mK)

Mean Temp. °C	45kg/m <sup>3</sup>	100kg/m <sup>3</sup>
10	0.0033	0.034
50	0.0039	0.034
100	0.047	0.043
150	0.058	0.050
200	0.070	0.059
250		0.068
300		0.079
350		0.089
400		0.100

### Storage and Handling

**SuperPhon HardFace** should be handled with care in order to avoid damage. Panels should be stored flat and covered in a clean, dry, well-ventilated area.

### Cleaning and Maintenance

SuperPhon Hardface is a system that requires virtually no cleaning or maintenance other than light vacuum cleaning with a soft brush attachment at six monthly periods or more frequently if the panels are located in a dusty environment. For other contaminants to the surface of the panels wiping with a clean cloth and detergent solution is all that is required. Fixings should be checked at bi-annual periods and should be tightened if required.

### Installation Service

In addition to supply of this product CMS Danskin Acoustics can provide a listing of competitively-priced approved installers that service anywhere in the UK. Use of this service ensures that installation is performed to the highest standards by tradesmen fully experienced in the specialist skills of fitting CMS Danskin acoustic materials correctly. Please contact CMS Danskin on **01925 577711** for a list of approved and qualified installers.

**IMPORTANT:** Directions for use are given for guidance only and are not intended to form part of any contract. They should be varied or adapted to suit your particular materials or conditions of use. Goods supplied by the company are made to approved standards from the highest quality raw materials but no warranty or guarantee is given as to their suitability for any particular purpose or application, and no liability is accepted for any loss or damage arising directly or indirectly from the use of the Company's products irrespective of any information given to us as to intended use of such products. It is therefore recommended that prospective users should test a sample of this product under their own conditions to satisfy themselves that the product is suitable for the purpose intended.

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