

## SP50 Acoustic Enclosure Panels



SP: Acoustic Enclosure



SP: Partition wall

### Application

The SP Acoustic Panel System is a versatile range of steel faced acoustic panels designed for general industrial and commercial use. Panels are available in a variety of standard finishes and are easily cut to size on site. Typical applications range from factory offices and process control rooms to acoustic enclosures around large printing presses or small ventilation plant. The system is also suitable for control of noise in studios and music practice rooms in schools.

### Description

SP Panels consist of a high density acoustic fibre core bonded to a plain steel outer skin and a plain or perforated inner skin. The high strength, lamella bonded construction maintains great panel stiffness and flatness over large panel sizes (length up to 6000mm) and reduces the requirement for support steelwork. Panels are jointed with a number of alternative methods depending on application - a tongue and groove system, a flush locking section and an extruded aluminium profile. The high bond strength of the construction means that SP Panels maintain their integrity even when heavily trimmed around services and obstructions on site.

### Options

The SP System includes

- Single and double doors (standard size)
- Double glazed windows
- Steelwork for large openings and long roof spans
- Attenuated ventilation systems
- Enhanced performance panels
- Pressurised constructions (e.g. plenums)

### Thermal Insulation

Thermal conductance (SP 50mm thick): 0.83W/m<sup>2</sup>°C

### Fire Performance

All components of SP Acoustic Panels are incombustible and can be safely used in industrial, commercial and educational environments. EN 13501-1 A2:s1;d0

### Finish

SP Panels are manufactured in the following standard finishes:

- Polyester powdercoated white (approx. RAL 9016)
- Polyester powdercoated light grey (approx. RAL 7044)
- Natural galvanised; Powder coated to any RAL shade
- Natural aluminium

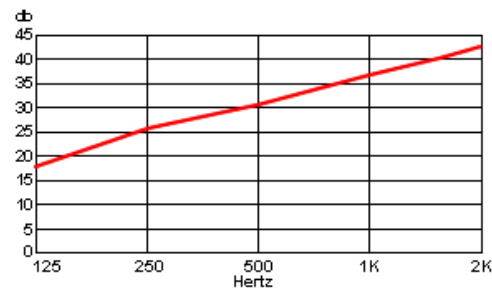
### Standard Panel Sizes

- 565 x 2500 x 50 (stock colour grey RAL 7044)
- 565 x 3000 x 50 (stock colour grey RAL 7044)
- 565 x 2400 x 50 (white RAL 9010)
- 1180 x 2400 x 50 (white RAL 9010)
- 565 x any length (max 6000) manufactured to order.
- 1180 x any length (max 6000) manufactured to order
- SP Panels are also available 80mm and 100mm thick

**Panel Weight 19.1 kg/m<sup>2</sup> (50mm thick)**

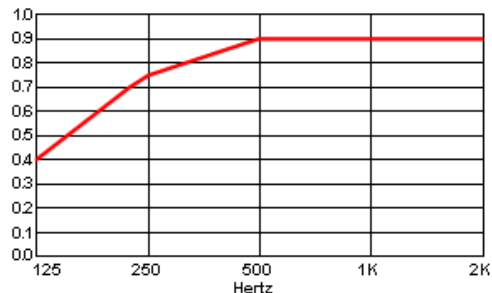
### Sound Reduction

SP Panel 50mm thick measured in accordance with ISO 140/3.  $R_w = 34\text{dB}$



### Sound Absorption

The noise absorption coefficient is given below, measured in accordance with ISO 354 (reverberant room method).



ASTM C423: Noise Reduction Coefficient (NRC) 0.85  
ISO 11654: Absorption Class A

# SP50 Acoustic Panel

## Standard Panel Size

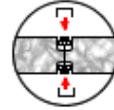
|   |                                       |
|---|---------------------------------------|
| <b>Thickness</b>  | 50mm                                  |
| <b>Width</b>  | 565mm / 1180mm                        |
| <b>Length</b>   | 2500mm / 3000mm                       |
| Special Sizes are available to order up to maximum panel size 1180 x 6000mm |                                       |
| <b>Weight</b>   | SP50 Panel weight 19kg/m <sup>2</sup> |

## Standard Door Size

|  |               |
|--|---------------|
| Complete with steel or aluminium frame |               |
| <b>Single</b>                          | 900 x 2100mm  |
| <b>Double</b>                          | 1800 x 2100mm |

## Flush Joint

Full length Steel Locking section - airtight joint



## Aluminium I-Joint

Extruded section for use where a highlighted joint system is required or where panels are accessible only from one side



## Tongue and Groove Joint

Particularly suitable for use where panels are installed as horizontal planks

