

Burgess A P

METAL CEILING SYSTEMS

Burgess Acoustic Infills

Acoustic Pads

Description

Burgess acoustic pads are a range of mineral fibre insulation products for use in our metal suspended ceiling systems.

The pads are supplied in a variety of sizes to suit all standard tile types and many bespoke sizes can be supplied on request.

They offer excellent acoustic, fire and thermal properties and in conjunction with our ceiling systems can meet the most demanding requirements of the building industry.

The pads are available in various combinations of thickness, density and covering as well as a cassette version for use in our Tegular tiles. Due to the problems of dust and fibre migration Burgess recommend the use of fully enclosed pads for all situations.

Product Range

The pad type selected will vary depending on the requirements of the project. The three standard types offered by Burgess are as follows:

- Mineral fibre totally enclosed in 200gsm black polythene.
- Mineral fibre enclosed on one face and all edges with 25micron aluminium foil and on opposite face with 70gsm black tissue.
- Cassetted tile – Mineral fibre with 70gsm black tissue on one face sealed into ceiling tile with reinforced class 'O' foil on rear face and on out turned flanges of tile. Suitable for Tegular tiles only.

Thickness and Density

Burgess acoustic pads are supplied with a standard thickness of 25mm which is suitable for most Burgess ceiling systems. Other thickness' are available on request but may incur extra costs and be subject to minimum order quantities.

The standard pad density is 45kg/m³ with 80kg/m³ pads being used in some cassetted tiles. Further details are available on request.

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Acoustics

Absorption - When used in conjunction with Burgess perforated metal ceiling tiles, aluminium wrapped black tissue faced pads achieve an NRC of up to 0.95 when tested in accordance with BS EN 20354.

Attenuation - When tested for the room to room normalised level difference in accordance with BS EN 20140-9, Burgess ceiling tiles with acoustic pads achieved $D_{n,c,w}$ values of up to 42dB.

Fire Performance

Aluminium wrapped acoustic pads are non-combustible to BS476-4.

Burgess metal ceiling systems, when used in conjunction with 25mm 45kg/m³ acoustic pads and tested in accordance with BS476-6 Fire Propagation and BS476-7 Surface Spread of Flame comply with the requirements for a class 'O' rating as defined by the Building Regulations.

The Burgess Clip-in ceiling system with 25mm 45kg/m³ acoustic pad, when tested in accordance with BS476-8 achieved a 1 hour fire rating.

The Burgess Tegular ceiling system with 25mm 45kg/m³ acoustic pad has been assessed to achieve a ½ hour fire rating to BS476-20 and 23.

Thermal Performance

Thermal Conductivity – 0.033W/mK

Thermal Transmittance (u value) – 25mm thick 45kg/m³ mineral wool pad – 1.36 W/m²K
50mm thick 45kg/m³ mineral wool pad – 0.68 W/m²K

Effect of Moisture

When exposed to 90% relative humidity at 20°C, unwrapped pads absorb less than 0.004% of moisture.

Biological

Burgess acoustic pads are rot proof, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

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SRA Acoustic Board

Description

SRA acoustic boards are high density mineral wool fibre boards for use in our metal suspended ceiling systems. The boards can be supplied to suit most standard sizes and bespoke sizes may be possible.

When used in conjunction with perforated metal ceiling tiles, the SRA board provides an excellent combination of attenuation and absorption in a single infill.

All boards are supplied painted matt black on the face and primed on the reverse.

Thickness and Density

Burgess SRA board is supplied with a thickness of 15mm, which is suitable for most Burgess ceiling systems and has a density of 420kg/m³.

Acoustics

Absorption - When used in conjunction with Burgess perforated metal ceiling tiles, SRA boards achieve an NRC of up to 0.65 when tested in accordance with BS EN 20354.

Attenuation - When tested for the room to room normalised level difference in accordance with BS EN 20140-9, Burgess ceiling tiles with SRA board achieved D_{n,c,w} values of up to 42dB.

Fire Performance

Burgess SRA board, when tested in accordance with BS476-6 Fire Propagation and BS476-7 Surface Spread of Flame complies with the requirements for a class 'O' rating as defined by the Building Regulations.

Thermal Performance

Thermal Conductivity – 0.0504W/mK

Effect of Moisture

Humidity levels under RH 70% will not adversely affect SRA boards.

Biological

SRA boards are unlikely to support micro-organisms or vermin. When used within the 70% RH limit, mould or fungal growth should not occur.