IBS Acoustic Slat Panel

SUSTAINABLE BUILDING PRODUCTS

TECHNICAL PROPERTIES

SEPTEMBER 2025

1. Product Description

The panels feature a layer of decorative MDF slats adhered to an acoustic backing, combining visual warmth with sound attenuation. Acoustic testing rates the material as Absorption Class D, indicating moderate sound absorption properties. Panels are strictly for internal, dry areas and should not be installed in damp or wet environments.

Avoid installation near open flames or heat sources (e.g., fireplaces or cooking zones) to maintain performance and safety. Panels can be sawn and shaped similarly to solid wood, though carbide-tipped cutters are recommended for improved precision. To ensure clean, damage-free edges, always use sharp tools preferably with a backing block and maintain a slower feed rate.

Panel Tolerances	
Property	**Details**
Dimensions	2400×600×21 mm or 600×600×21 mm
Weight	~10.5–11.5 kg or ~2.6–2.8 kg
Materials	MDF slats + acoustic backing
Acoustic Rating	Absorption Class D
Environment	Internal, dry spaces only
Heat Sensitivity	< 15 %
Coefficient of expansion for 1% change in wood moisture	Avoid areas near heat or flames
Tooling	Use carbide blades, backing block, slow feed

2. Technical Properties

In acoustics testing, The Noise Reduction Coefficient (NRC) and the Sound Absorption Average (SAA) are both measures of how well a material can absorb sound, but they differ in their calculation and application.

The NRC is a single number rating that represents the average of sound absorption coefficients of a material at specific mid-range frequencies (250, 500, 1,000, and 2,000 Hz). It is used to determine how well an acoustical product absorbs mid-range sound, which is generally thought of as the range of speech frequencies.

On the other hand, the SAA is also a single number rating, but it is calculated as the average of sound absorption coefficients across a broader range of frequencies (typically from 200 Hz to 2,500 Hz). This makes the SAA a more comprehensive measure of a material's sound absorption performance across different frequencies.

In summary, while both NRC and SAA provide an indication of a material's sound absorption capabilities and both focus on mid-range frequencies, the SAA covers addtional frequencies within the range offering a more comprehensive assessment.