Revive

ACOUSTIC PANELS

TECHNICAL DATA SHEET

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Contents

REVIVE ACOUSTIC PANELS

Revive Acoustic Panels are decorative sound-absorbing interior lining systems comprising MDF/HDF slats bonded to a polyester (PET) acoustic backing with a decorative veneer or film surface.

The system is designed to improve room acoustics by reducing reverberation and enhancing sound absorption performance, while maintaining architectural aesthetics suitable for residential and commercial interiors.

Product name:	Revive Acoustic Panels
Product use:	Interior wall linings, Feature acoustic walls, Ceiling installations, Commercial fit-outs, Residential living spaces, Offices, hospitality and retail environments
Material:	Polyester and Fibre board
Material description:	A Polyester fibre matt, with High density fibre board (HDF) slats , stapled to the matts.

Document layout

Eva-Last strives to evaluate their products in depth and present the technical and safety information available in a manner that assists with the application thereof. If additional data or information is required, please do not hesitate to contact us at rad@eva-last.com.

To simplify the information, similar data is loosely grouped into the categories summarised below. This document is ordered according to these categories, and the applicable page number for the start of each section is captured in the table of contents.

- Material composition
- Material compliance
- Physical properties
- Acoustic properties

Where information is not yet available, the section is simply omitted. In cases where information can be substituted or supplemented with alternative data (based on similar compositions, etc.), an attempt to do so is made. Where this is the case, it is highlighted. Please make use of the data accordingly. For any additional information regarding this, please feel free to contact rad@eva-last.com.

Always ensure the product, and application thereof is suitable, rational, and compliant with any applicable regulations or standards. Wherever necessary, consult a suitably qualified professional. For information about the installation, safety handling, and use of the product, please see the applicable Installation Guide (IG).

Material composition

The following table is a simplified material composition for the Revive Acoustic Panels material technology. For more information regarding the composition, safety, and handling of the material, please see the Revive Acoustic Panels Installation guide.

Property	Value (Metric)	Test Method	Information
Polyester fibre content	51 %	ISO 16000	Acoustic backing material
HDF / fibreboard content	49 %	ISO 16000	Structural board component

Material compliance

Revive Acoustic Panels have been evaluated for indoor air emissions and environmental compliance through independent laboratory testing. The following results summarise the compliance performance of the tested material.

1. VOC Emissions – AgBB / ISO 16000 Compliance

The product was tested for volatile organic compound (VOC) emissions and formaldehyde release in accordance with ISO 16000 standards. Evaluation was conducted against AgBB/DiBt requirements to determine suitability for indoor air quality compliance. Testing was performed by **TÜV Rheinland (Guangdong) Ltd.**, an internationally recognized third-party testing organization.

Results Summary

Property	Result	Requirement	Notes
Standard	ISO 16000-3, -6, -9	AgBB / DiBt	Tested by TÜV Rheinland
TVOC (3 days)	0.017 mg/m^3	≤ 10 mg/m^3	Pass
TVOC (7 days)	0.017 mg/m^3	≤ 0.5 mg/m^3	Pass
TVOC (28 days)	0.006 mg/m^3	≤ 1.0 mg/m^3	Pass
SVOC	< RL	≤ 0.1 mg/m^3	Below detection limit
Formaldehyde	< RL	≤ 0.1 ppm	Not detected
Carcinogenic substances	< RL	≤ 0.001 mg/m^3	Not detected
Overall Result	PASS	AgBB compliance	Confirmed

Notes:

- Results based on 28-day chamber testing (see tables on page 3–4 of report).
- R-value exceeds limit at 7 days but complies at 28 days, which is the governing compliance condition.

2. VOC Emission Classification – French Regulation (A Rating)

VOC emissions were additionally evaluated according to the French regulation Decree 2011-321, which classifies construction products based on indoor air emission levels. Testing was conducted by **SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd**, a globally accredited certification body.

Results Summary

Property	Result	Requirement	Notes
VOC Classification	Class A	A (≤ defined limits)	Pass
Formaldehyde	53.1 µg/m³	< 60 µg/m³ (Class A)	Within limits
TVOC	17.4 µg/m³	< 1000 µg/m³ (A+)	Very low emissions
Toluene	3.4 µg/m³	< 300 µg/m³	Pass
Other VOCs	Not detected	—	Below detection limits
Test Standard	ISO 16000 series	French VOC regulation	Chamber method

Notes:
- Results based on 28-day emission testing (page 3-4).
- Product qualifies for Class A, indicating low VOC emissions suitable for indoor use.

Physical properties

Profile properties

Revive Acoustic Panels are composite acoustic panels consisting of decorative wood veneer slats mounted to a polyester acoustic backing layer. The system is supplied in modular panel formats suitable for interior acoustic wall installations.

The following table summarises the dimensional characteristics of the panel system and its individual components.

Panels	Length	Width	Thickness
Panel (Large Panel)	2405 mm (94.69 in)	605 mm (23.82 in)	21 mm (0.83 in)

Component details	Length	Width	Thickness
Decorative slat	Panel length	27 mm (1.06 in)	12 mm (0.47 in)
Acoustic backing	Panel length	Panel size	9 mm (0.35 in)

Acoustic Performance properties

Acoustic Performance

Introduction

Acoustic performance has been evaluated in accordance with ISO 354 (reverberation room testing) and classified in accordance with ISO 11654.

Results are expressed as a weighted sound absorption coefficient (αw), representing overall sound absorption across a range of frequencies:

- **Class A (αw ≥ 0.90):** High-performance absorption suitable for acoustic control
- **Class C (αw 0.60–0.75):** Moderate absorption suitable for reducing echo and improving speech clarity

Acoustic performance is dependent on the full installation build-up. The results below compare two tested configurations to illustrate how installation affects performance.

Acoustic Performance Summary

Configuration	Installation Build-Up	Test Standard	αw	Class	Performance Interpretation
Enhanced System (E200) 200 mm cavity	Panel installed as part of a backed system with an air cavity (E200 configuration), designed to optimise acoustic absorption	ISO 354 / ISO 11654	0.90	Class A	Broad-band absorption including improved low-frequency performance. Suitable for full acoustic treatment applications.
Standard Installation 100 mm Cavity	Panel mounted on subframe with approximately 100 mm air cavity behind panel	ISO 354 / ISO 11654	0.75	Class C	Moderate absorption, primarily effective in mid-to-high frequencies. Suitable for reducing echo and improving speech clarity.

Test Reports and References

- **Intertek Acoustic Test Report — E200 Assembly (Class A):**
- **SGS Acoustic Test Report — 100 mm Cavity Assembly (Class C):**

Installation Dependency

Acoustic performance is dependent on the tested assembly and installation method. The results presented are based on cavity-backed systems. Changes to installation conditions, including removal or reduction of the air cavity, will affect performance and are expected to reduce sound absorption, particularly at lower frequencies.

Notes for Specification

- Results are based on laboratory-tested assemblies and may vary in real-world applications.
- For optimal acoustic performance, installation should align with tested or recommended system configurations.
- Direct-fixed installations without a cavity are not represented by the above results.

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Utilisation disclaimer

Legislation may differ between jurisdictions. Before installing any Eva-Last product, ensure that the application is rational and complies with the local regulations and building codes. Wherever necessary, consult a suitably qualified professional. Be sure to comply with material manufacturer specifications. Where manufacturers and building codes differ, revert to the building code requirements. Check that your choice of product is suitable for its intended application. For further product specification and information visit www.eva-last.com.

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Contact information
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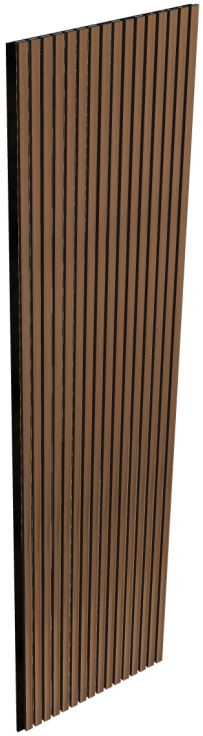
Appendix A

Product Drawings

Profile properties	
Product code	Revive acoustic panel
Sectional area (mm²)	
Approximate mass (kg/m)	



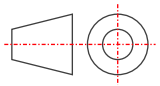
Drawing title

Acoustic Panels 2405 x 605 mm

File name

Acoustic Panels

File details



Drawing number	01
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Unless otherwise specified all dimensions are in millimeters.

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