

ECHOHUSH PANEL

high-performance decorative polyester base acoustic panel

Echohush Panel is a high-performance sound absorbing panel made from thermally bonded recyclable polyester fibres. It contains a minimum of 80% post-consumer PET and is engineered to offer superior acoustic properties from mid to high frequencies. The panels are lightweight, semi-rigid, highly durable and impact resistant.

Echohush Panels can be digitally printed to custom colours, patterns, safety messages or to create a 3D look with textured finishes to meet branding requirements. Many textiles can be laminated to the panel to suit home, commercial, education and retail interiors.

Panels can be offered pre-cut to various shapes and patterns to provide custom design options. All sheets are offered trimmed with a choice of facing options such as plain or printed, fabric faced or fabric wrapped. Echohush Panels can be framed for modular partitioning in office environments. The product sheet is available in standard 25 mm and 50 mm thickness. Custom sheet sizes and other thicknesses up to 100 mm are available on request.

Echohush Panels can be used in conjunction with Echohush Profile and Echohush Bass Traps. The use of the system can effectively absorb a broad range of frequencies and help control room noise disturbances and provide a balanced acoustic and aesthetic solution.

Its excellent acoustic performance, along with the design flexibility, make Echohush panels suitable for interior use, especially in wall and ceiling applications.

SPECIFICATIONS

Colour	Refer to fabric colours on 248-21P
Available	Standard sheet size: 1200 mm x 2400 mm Standard thickness: 25 mm and 50 mm
	Custom sizes and thickness (up to 100 mm) available depending on MOQ

DISCLAIMER: Electronic reproduction of colours can vary dramatically. We strongly advise that you view actual samples before final selection. Please contact your local Pyrotek representative for non-standard colours.



applications

- Commercial: lobbies, boardrooms, open plan offices, acoustic partitioning systems, call centres, convention and exhibition centres
- Public area: sport and community centres, gymnasiums, schools, churches, medical and health care centres
- Hospitality: cafes, hotels, restaurants
- Home: home theatre, lounge room, music rooms, mixing rooms, studios
- Specialist: radio and TV studios, sound recording studios
Wall panelling and other decorative features

features

- Made from 100% polyester fibre without chemical binders
- Manufactured using a minimum of 80% post-consumer PET and is recyclable
- Excellent acoustic performance
- Polyester is moisture resistant and will not rot or deteriorate
- Decorative appearance combining acoustics and aesthetics to upscale any décor
- Lightweight & easy to handle
- Non-toxic, non-irritant and non-allergenic
- Can be easily cut to various shapes and patterns
- Available in plain, custom printed, fabric faced or fabric wrapped
- Manufactured under ISO 9001 Quality Systems



PRODUCT SPECIFICATIONS

Product code	Standard thickness	Panel weight	Standard sheet size ¹	Facing options ²	Design options ²
Panel 25	25	6.6 kg	1200 mm x 2400 mm	Plain, printed, fabric faced, fabric wrapped	Custom shapes and patterns
Panel 50	50	11 kg			

Tolerances: Thickness ±10%; Weight ±10%; Dimensions ±10 mm. Custom sizes available for large orders. Other thicknesses up to 100 mm available on request. Manufacture can vary by region. Product or parts may be manufactured under agreement with a third party, meeting general specifications listed within the technical datasheet.

1 All panels are supplied trimmed.

2 Please contact your local Pyrotek representative for facing and design options.

NOMENCLATURE

HOW TO ORDER:

To order product: specify the product code/category followed by the thickness and colour code from our available colours. For example, mention name 'Flax' or 'Rustic' from our gallery, or simply state 'Plain' when ordering plain panels. Please consult your local Pyrotek representative for custom facing, design or print options



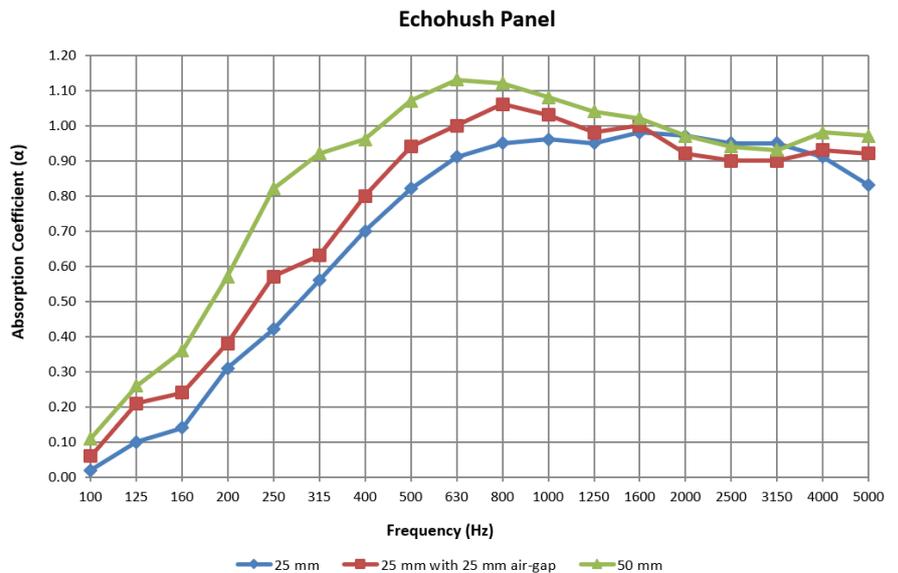
MATERIAL PROPERTIES

Product	Test method	Property	Report	Results
Echohush Panel 25 mm*	ISO 9705	Full-scale room test for resistance to fire on surface products	11222RV/FI 5599	NCC: Group 1 NZBC: Group 1-s
Echohush Panel 50 mm*	ISO 9705		11222RV/FI 12158-01-2	NCC: Group 1 NZBC: Group 1-s
Captivate Facing	ISO 9705		11222RV2 - FI 5588	NCC: Group 1 NZBC: Group 1-s

*Results for plain Echohush Panel.

ACOUSTIC PERFORMANCE

Frequency (Hz)	25 mm	25 mm with 25 mm air-gap	50 mm
100	0.02	0.06	0.11
125	0.10	0.21	0.26
160	0.14	0.24	0.36
200	0.31	0.38	0.57
250	0.42	0.57	0.82
315	0.56	0.63	0.92
400	0.70	0.80	0.96
500	0.82	0.94	1.07
630	0.91	1.00	1.13
800	0.95	1.06	1.12
1000	0.96	1.03	1.08
1250	0.95	0.98	1.04
1600	0.98	1.00	1.02
2000	0.97	0.92	0.97
2500	0.95	0.90	0.94
3150	0.95	0.90	0.93
4000	0.91	0.93	0.98
5000	0.83	0.92	0.97
NRC	0.80	0.85	1.00
SAA	0.79	0.85	0.97
α_w	0.75 (H)	0.85	1.00



Tested to ISO 354:2003 at Canterbury University, New Zealand
 Report Numbers: 233, 234 & 235

For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. **DISCLAIMER:** This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

