

Specifications 12mm Panel

Boyd Acoustic Panels are semi-rigid, lightweight and available in 12mm or 24mm thickness. Our panels are made from compressed polyester fibre with no less than 70% recycled content and checked at each stage of production to ensure quality control.

Our products are designed to manage noise reverberation by absorbing sound energy. With a large selection of wall, hanging and ceiling styles we have an acoustic solution to suit your workspace.

Product Specification

Product Name:

Boyd Acoustic Panel

Composition:

100% polyester fibre with no less than 70% recycled content.

100% polyester fibre from polyethylene terephthalate (PET).

Panel Dimensions:

1220 x 2400mm or special size

Thickness: 12mm

Weight: 2300gsm

Warranty: 10 years on

Boyd Acoustic Panel (excluding manufactured goods)

Acoustic Performance

NRC 0.40 when adhered directly to the wall. Absorbs up to 40% of noise that comes into contact with the surface.

NRC 0.80 with a 50mm air gap.

Applications

Acoustic wall, hanging and ceiling treatments for commercial, retail and education spaces.

Cut to any shape, pattern or size to suit your workspace.

Print logos or designs on the panels due to semi-rigid structure.

Acoustic surface provides option for pinboard use.

Acoustic space divider offers privacy and sound absorption.

Environment

Low VOC

Made from minimum 70% recycled content.

Material is non-irritant / non-allergenic / non chemical binders.

Installation

See Boyd installation instructions on our website.

Fire Retardant Testing

Boyd Acoustic Panels (12mm) have been tested according to AS ISO 9705-2003 (R2016).

Full scale room test for surface products.

Assigned a Group 1 classification.

SMOGR_{Arc} = 0.086m²/s² x 1000.

As per AS 5637.1:2015 clause 4.2.

Finish/Surface

Boyd Acoustic Panels are a solid colour with no pattern repeat. Panels do have a slight directional grain.

Colour can vary from samples and by batch due to the nature of the production process.

Colour Fastness

Boyd Acoustic Panels are suitable for indoor use only. Colour and light-fastness are dependant on use and exposure. Avoid strong ultraviolet radiation.

Colours

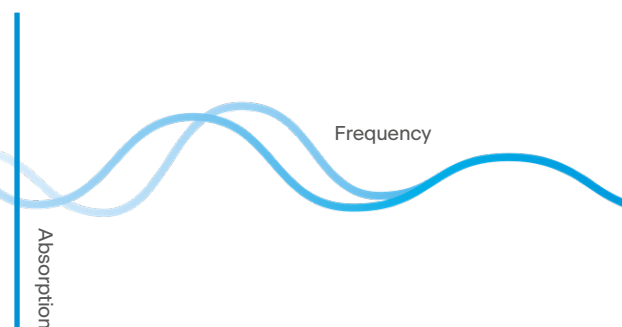
We have 23 colours available in stock with a further 72 colours available with an eight week lead time.



Sound Absorption Coefficients

Test Parameters

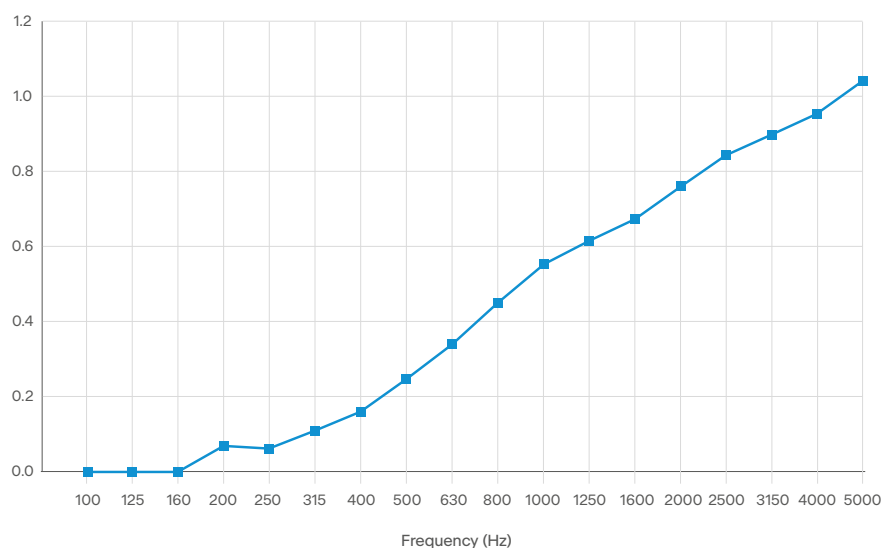
Volume of reverberation room	240m ³ (Vs)	Installation Type A
Room temperature	23°C (t1)	23°C (t2)
Relative humidity	75% (H1)	75% (H2)
Sample size (width x height)	1220 x 2440mm	
Thickness	12mm	
Mass	168kg/m ³	
Edge treatment	/	
Test area	10.8m ²	



The sound absorption coefficient shown here (between 0.0 and 1.04) describes the average sound absorption performance of Boyd Acoustic Panels, tested in the conditions specified above.

Frequency (Hz) αs

100	0.00
125	0.00
160	0.00
200	0.07
250	0.06
315	0.11
400	0.17
500	0.25
630	0.34
800	0.45
1000	0.56
1250	0.61
1600	0.68
2000	0.77
2500	0.84
3150	0.90
4000	0.96
5000	1.04



Rating according to IOS11654: 1997

Weighted sound absorption coefficient:
αw = 0.41(MH)

Sound absorption class: D

The NRC rating is calculated as the average of the absorption coefficients measured at frequencies of 250Hz, 500Hz, 1000Hz and 2000Hz and rounded to the nearest 0.05.

F (Hz)	αs
250	0.10
500	0.25
1000	0.55
2000	0.75
4000	0.95