

Technical Data Sheet

Product overview

Acoustiscreen Polyester Acoustic Wall Panels are designed to provide maximum decorative design flexibility while at the same time significantly improving the sound quality of internal spaces by minimising reverberation. Available in 12mm and 24mm thicknesses, Acoustiscreen panels are designed for a variety of interior applications such as classrooms, commercial premises, and multipurpose rooms. Made from 100% polyester fibre, Acoustiscreen panels are lightweight and semi-rigid making them easy to assemble and install.

Sustainable material

Conforming with Global Recycled Standard 4.0 (GRS 4.0)

75% recycled material

Low VOC

Environmental certification

GB/T 24001 / ISO 14001 Certified Environmental Management

GB/T 45001 / ISO 45001 Certified Occupational Health and Safety Management

Complies with the limits as set by RoHS Directive (EU)2015/863 amending Annex II to Directive 2011/65/EU

Fire ratings

Fire rated to Australian, European and American Standards: Group 1 Fire Rating AS5637/ISO9705, ASTM E84 Class A, EN 13501 1:2007+A1:2009 Class B

Thermal performance Acoustiscreen, 24mm

Thermal conductivity 0.036W/(m.K)

Thermal resistance 0.599 (m².K)/W

Product specifications

Product Name: Decrasound Acoustiscreen acoustic panel

Composition: 100% Polyester Fiber (PET)

Panel Dimensions: 2440mm x 1220mm or other Custom size

Thickness: 9mm and 12mm colour in stock or 3mm, 5mm, 15mm, 20mm, 24mm, 48mm
Tolerance (+/- 10%)

Weight: 1600g/sqm = 1.6kg/m² (177kg/m³). 1900g/sqm = 1.9kg/m² (211kg/m³) for 9mm in stock.
2400g/sqm = 2.4kg/m² (200kg/m³) for 12mm in stock.
3500g/sqm = 3.5kg/m² (145kg/m³) for 24mm polyester fiber acoustic panel
7000g/sqm = 7kg/m² (145kg/m³) for 48mm polyester fiber acoustic panel
Tolerance (+/- 10%)

Acoustic performance

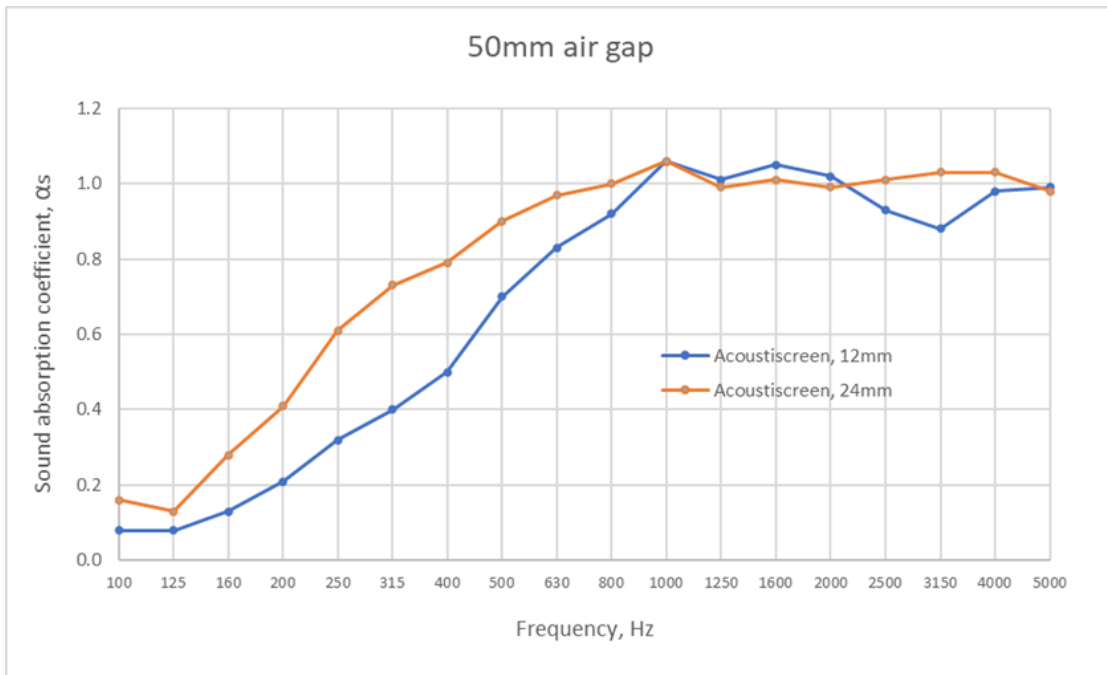
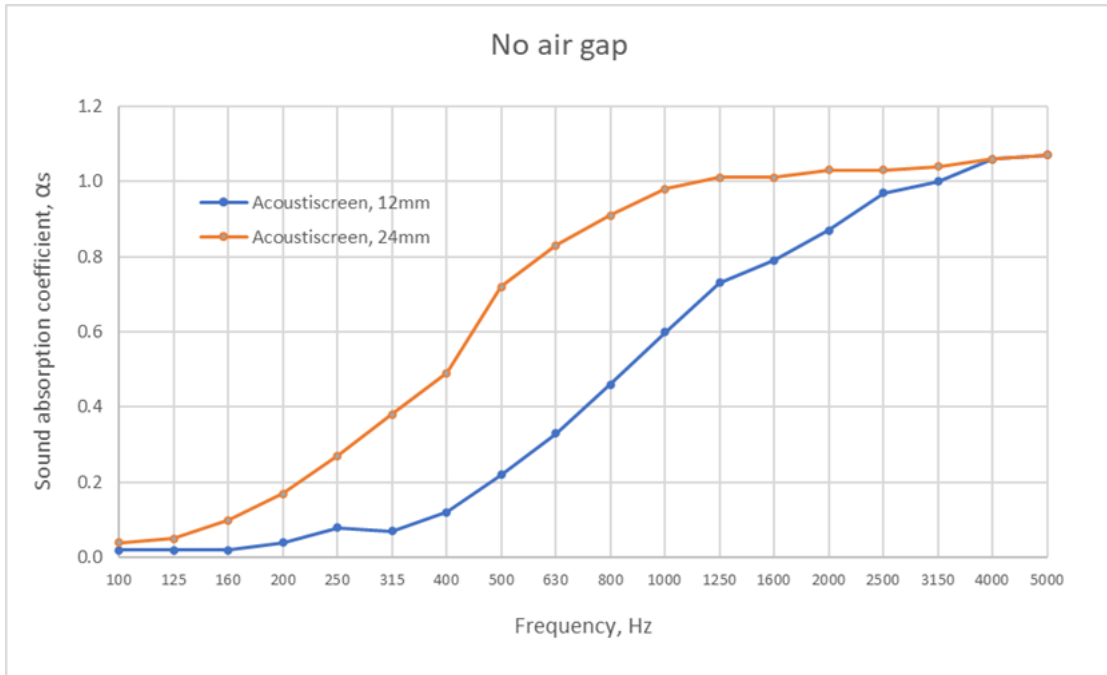
Decrasound Acoustiscreen provides maximum design flexibility coupled with functional performance allowing the control of reverberated noise within a building interior. Various thicknesses are available providing differing acoustic absorption performance. Increased sound absorption can be achieved with air gaps behind the panels.

Frequency (Hz)	125	250	500	1000	2000	4000	α_w	SAA	NRC	Test report
Acoustiscreen 12mm (No air gap)	0.00	0.05	0.20	0.60	0.90	1.00	0.25 (MH)	0.44	0.45	CSIRO AC370-01
Acoustiscreen 24mm (No air gap)	0.05	0.30	0.70	0.95	1.00	1.00	0.60 (MH)	0.74	0.75	CSIRO AC370-02
Acoustiscreen 12mm (50mm air gap)	0.10	0.30	0.70	1.00	1.00	0.95	0.60 (MH)	0.75	0.80	CSIRO AC370-04
Acoustiscreen 24mm (50mm air gap)	0.20	0.60	0.90	1.00	1.00	1.00	0.90	0.87	0.90	CSIRO AC370-03

Notes:

- The table above shows the Practical sound absorption coefficients calculated according to ISO 11654 (note: values greater than 1.00 have not been maximised to 1.00 as required by ISO 11654 to calculate the α_w).
- The Weighted sound absorption coefficient (α_w) was calculated according to ISO 11654. It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve that can be obtained on request.
- The SAA (Sound Absorption Average) and the Noise Reduction Coefficient (NRC) have been calculated according to ASTM C423.
- The charts below show the third octave sound absorption coefficients measured according to ISO 354.

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For more information visit www.decrasound.com or contact Sontext or an Authorised Distributor



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