SERENITY
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Serenity Fabric Decorative Panels

Technical Data Sheet

Serenity Fabric Decorative Acoustic Panels

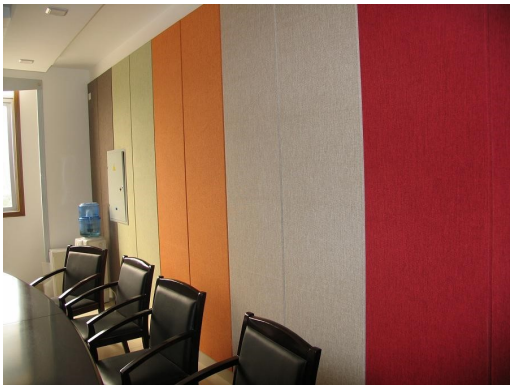
Product overview

Serenity Fabric Decorative Acoustic Panels are designed to provide maximum decorative design flexibility by offering an array of suitable fabric colours and patterns, whilst at the same time significantly improving the sound quality of internal spaces by minimising reverberation.

Serenity Fabric Decorative Panels can be supplied in a wide range of woven or non-woven fabric finishes; Sontext sources their fabrics from Australia's leading textile manufacturers and suppliers. Serenity Acoustic Panels are available in a range of thicknesses from 25mm to 125mm and are designed for a variety of interior applications such as classrooms, commercial premises, and multipurpose rooms.

The Wall Panels can be direct fixed easily to most wall surfaces using Sontext's split batten system (separate Installation Guide available).

PANEL CHARACTERISTICS	
Nominal Thicknesses: 25mm, 50mm, 75mm, 100mm, 125mm (Refers to thickness of the acoustic absorber infill) Thickness selection will depend on the acoustic performance required.	**Standard Sizes:** 1200 x 600mm, 1200 x 1200mm, 2400 x 1200mm. Contact Sontext to discuss other size options. (Tolerance approx +5/-2mm., depending on the fabric chosen).
Panel Construction: The panels consist of an acoustic insulation infill, impact resistant acoustic membrane which is contained within an MDF frame. Finish is decorative fabric to face and wrapped around all four edges of the panel	**Nominal Weight (Mass) based on 2400 x 1200mm panel:** 25mm insulation thickness: 7 kg/m2 50mm insulation thickness: 10 kg/m2 75mm insulation thickness: 13 kg/m2
Fire Properties: Serenity Acoustic Panels are a composite fabricated from materials supplied by others. Low Volatile Organic Compound (VOC) and low formaldehyde insulation and MDF components are used in all in *Serenity* Panels. Serenity Fabric acoustic panels are constructed from materials that have all been tested to AS5637 ISO9705 Group 1 Fire Rating.	The Acoustic Absorber infill used in Serenity Panels has the following Fire Indices **Australian**: AS5637, ISO9705 Group 1 Fire Rating , **European and American Standards:** ASTM E84 Class A, EN 13501-1:2007 +A1:2009 Class B.



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Acoustic performance

Serenity Decorative Acoustic Wall Panels provides maximum design flexibility coupled with functional performance allowing the control of reverberated noise within a building interior. Serenity Acoustic Wall Panels have been tested with various thicknesses of high-density glass wool, or laminated combinations thereof, and with or without an air gap behind, providing a range of acoustic absorption performance.

Frequency (Hz)	125	250	500	1000	2000	4000	Alpha w	SAA	NRC	Test report
Serenity Broad Comp55 (No air gap)	0.50	0.90	0.85	0.80	0.85	0.95	0.85 (L)	0.86	0.85	RMIT 121J/04-021/PD
Serenity LW1 (No air gap)	0.90	0.95	0.95	0.90	0.85	0.75	0.90 (L)	0.91	0.90	RMIT
Serenity Broad Comp 75 (No air gap)	0.75	0.90	0.90	0.85	0.80	0.70	0.85 (L)	0.86	0.90	RMIT
Serenity LW2 (No air gap)	0.85	1.00	1.00	0.95	0.85	0.75	0.90 (L)	0.93	0.95	RMIT
Serenity Acoustic Panel 100mm (No air gap)	0.70	1.15	1.25	1.10	1.10	1.10	1.00 (LM)	1.16	1.15	RMIT
Serenity Acoustic Panel 25mm (40mm air gap)	0.15	0.45	1.00	1.20	1.15	1.10	0.75 (MH)	0.96	0.95	RMIT 121J/854C/KC
Serenity Acoustic Panel 75mm * (50mm air gap)	0.75	1.20	1.35	1.30	1.30	1.30	1.00 (LMH)	1.29	1.30	RMIT
Serenity Acoustic Panel 75mm * (No air gap)	0.60	1.10	1.35	1.35	1.35	1.30	1.00 (LMH)	1.28	1.30	RMIT
Serenity BL Comp100 * (50mm air gap)	0.95	1.30	1.35	1.35	1.35	1.35	1.00 (LMH)	1.33	1.35	RMIT
SerenityLite/ Serenity 25mm (No air gap)	0.15	0.55	1.00	0.95	0.95	0.95	0.85	0.86	0.85	RMIT 121J/02-020/PD
SerenityLite 25mm (34mm air gap)	0.30	0.75	1.00	1.00	1.00	1.00	1.00	0.94	0.95	RMIT 121J/02-021/PD
Serenity CompPerf 25mm (38mm air gap)	0.40	0.90	1.15	1.00	0.75	0.65	0.80 (LM)	0.96	1.00	RMIT 121J/02-022/PD
Serenity 25mm Acoustic Panel (34mm air gap)	0.30	0.75	1.00	1.00	1.00	1.00	1.00	0.94	0.95	RMIT 121J/02-023/PD
Serenity/ SerenityLite 25mm Acoustic Panel (No air gap)	0.15	0.55	0.95	0.95	0.95	0.95	0.85	0.85	0.85	RMIT 121J/02-034/PD

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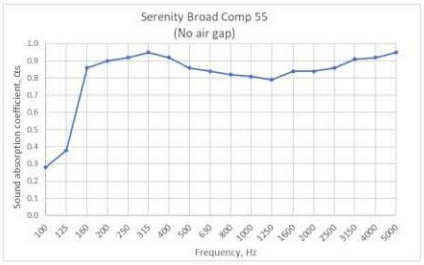
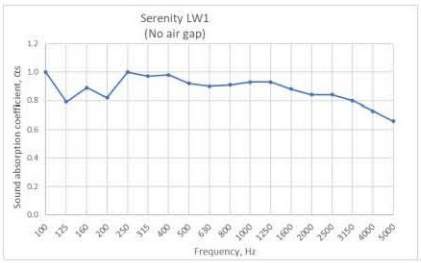
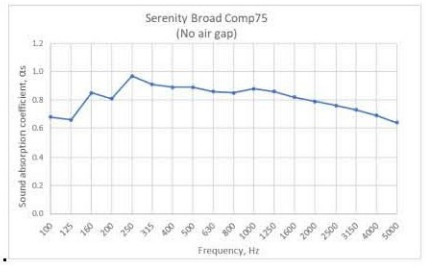
Serenity 25mm Perforated backing (No air gap)	0.30	0.75	1.00	1.00	1.05	1.05	1.00	0.95	0.95	RMIT 121J/02-035/PD
Serenity 75mm Acoustic Panel (No air gap)	0.60	1.05	1.10	1.05	1.00	1.00	1.00 (L)	1.04	1.05	RMIT 121J/02-097/PD

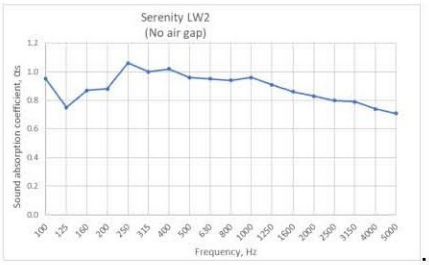
* Tested without edge treatment i.e. framed perimeter around test sample

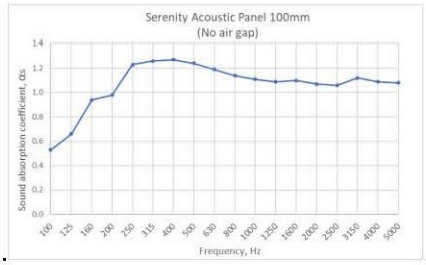
Notes:
- Testing conducted at RMIT N.A.T.A. accredited lab (Melbourne, Australia) to AS 1045-1988 Acoustics — Measurement of sound absorption in a reverberation room.
- The table above shows the Practical sound absorption coefficients calculated according to ISO 11654 (note: values greater than 1.00 have not been maximised to 1.00 as required by ISO 11654 to calculate the αw).
- The Weighted sound absorption coefficient (αw) 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 AS 1045-1998.

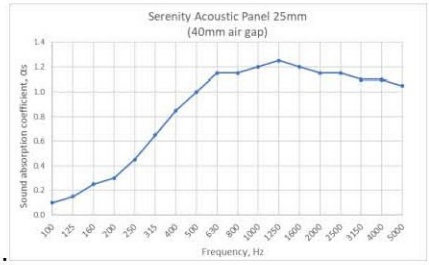


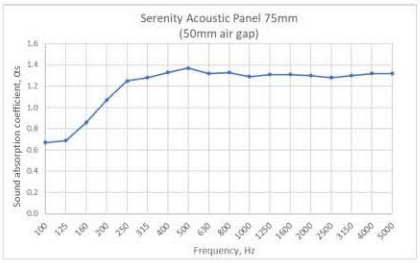


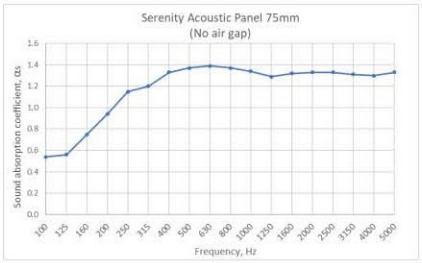


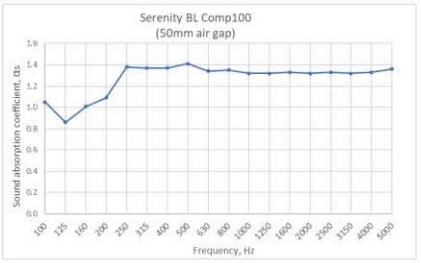


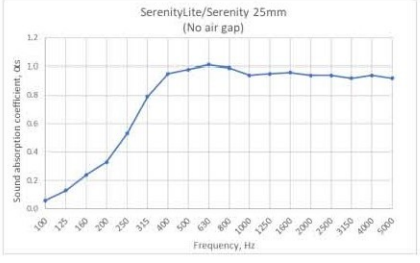


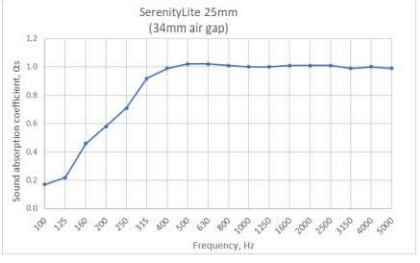


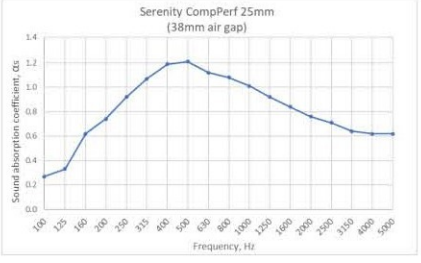












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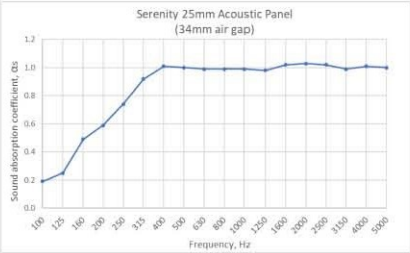

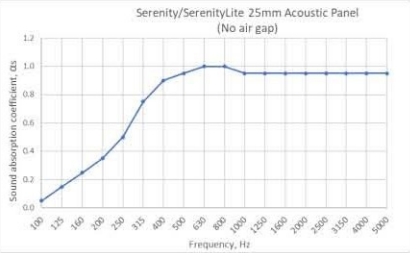

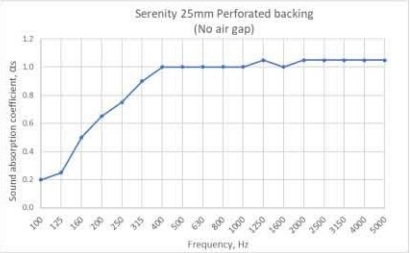

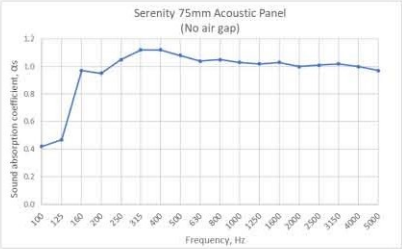

For more information visit www.sontext.com.au or contact Sontext or an Authorised Distributor

Sontext™
ACOUSTIC & TEXTURAL CREATIVITY

Head Office Australia / Vic State Office
47 Longford Road,
Epping, VIC Australia 3076
T: +61 3 9432 2733
E: sales@sontext.com.au

NSW State Office
Level 13 Suite 1A 465 Victoria Avenue
Chatswood, NSW 2067
T: +61 2 9844 5414