

## Technical Data Sheet



### Product overview

Decrabaffle is a modular acoustic baffle system designed specifically for ceiling applications in interior spaces. Decrabaffle provides maximum design flexibility by offering various combinations of baffle depths & spacings. Decrabaffle has been extensively acoustically tested to offer wide-ranging sound absorption performance allowing tuned reverberation control. Made from 100% polyester fibre, Decrabaffle components are lightweight to handle and 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

### Product specifications

<b>Product Name:</b>	Decrasound Decrabaffle acoustic ceiling system
<b>Composition</b>	100% Polyester Fibre (PET)
<b>Dimensions</b>	Main baffle length: 2400
<b>Thickness</b>	12mm or 24mm.
<b>Weight</b>	12mm = 2400g/sqm (200kg/m <sup>3</sup> ) 24mm = 3500g/sqm (145kg/m <sup>3</sup> ) Tolerance (+/- 10%) Note: 1kg/m <sup>3</sup> = 0.0624lb/ft <sup>3</sup> 1kg/m <sup>2</sup> = 23.73lb/ft <sup>2</sup>

## Acoustic performance

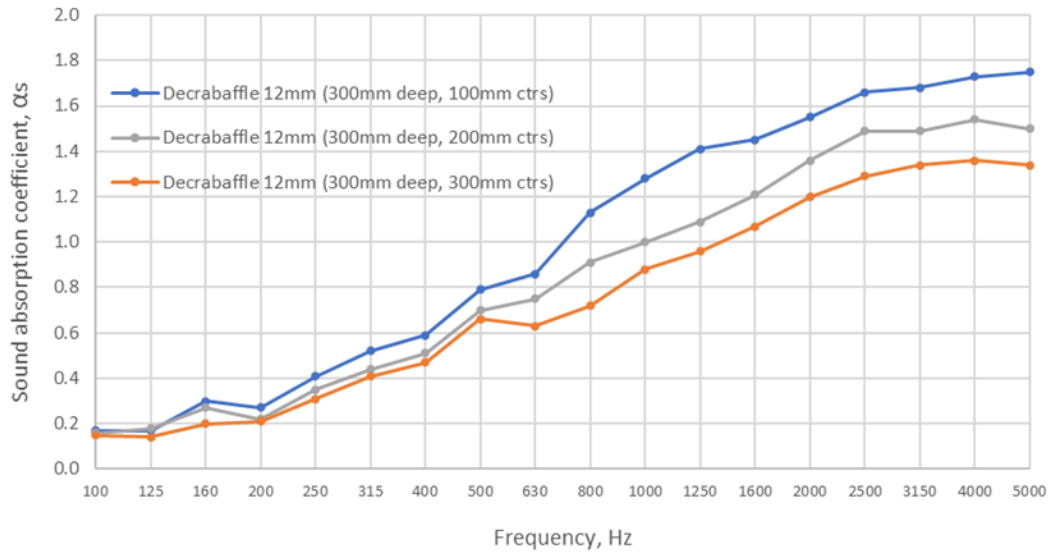
Decrasound Decrabaffle provides maximum design flexibility coupled with functional performance allowing the control of reverberated noise within a building interior. Main baffle spacing of 100mm, 200mm and 300mm can be selected, each providing differing sound absorption performance.

For critical reverberation control requirements, maximum sound absorption can be achieved with the baffles at 100mm. Or for less critical requirements, baffle spacing of 200mm or 300mm can provide viable options.

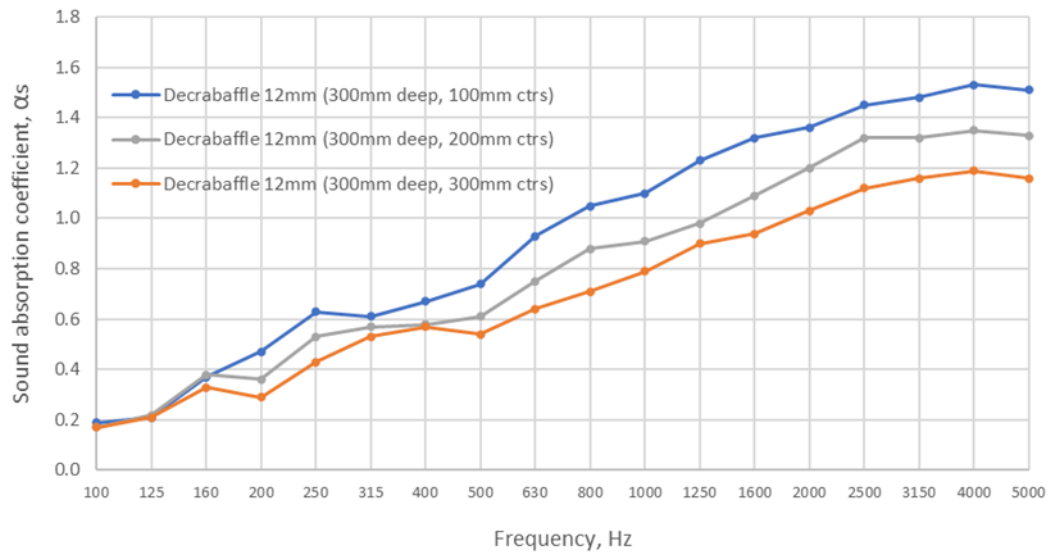
Frequency (Hz)	125	250	500	1000	2000	4000	w	SAA	NRC	Test report
<b>Decrabaffle 12mm</b> (300mm deep 100mm centres) See Note 1.	0.20	0.40	0.75	1.25	1.55	1.70	0.70 (MH)	0.99	1.00	CSIRO AC370- 10 <sup>1</sup>
<b>Decrabaffle 12mm</b> (300mm deep 200mm centres) See Note 1.	0.20	0.35	0.65	0.85	1.20	1.50	0.65 (MH)	0.84	0.85	CSIRO AC370- 11 <sup>1</sup>
<b>Decrabaffle 12mm</b> (300mm deep 300mm centres) See Note 1.	0.15	0.30	0.60	0.85	1.20	1.35	0.60 (MH)	0.73	0.75	CSIRO AC370- 12 <sup>1</sup>
<b>Decrabaffle 12mm</b> (300mm deep 100mm centres) See Note 2.	0.25	0.55	0.80	1.15	1.40	1.50	0.80 (H)	0.96	0.95	CSIRO AC370- 07 <sup>2</sup>
<b>Decrabaffle 12mm</b> (300mm deep 200mm centres) See Note 2.	0.25	0.50	0.65	0.90	1.20	1.35	0.70 (H)	0.82	0.80	CSIRO AC370- 08 <sup>2</sup>
<b>Decrabaffle 12mm</b> (300mm deep 300mm centres) See Note 2.	0.25	0.40	0.60	0.80	1.05	1.15	0.65 (H)	0.71	0.70	CSIRO AC370- 09 <sup>2</sup>

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## 200mm air gap



## No air gap



**Notes:**

1. Samples were tested with a 200mm air gap and without an enclosure
2. Samples were tested without an air gap and without an enclosure

- Test results with an enclosure around the sample as per Type J mounting in AS ISO 354 available on request.
- 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  $\alpha_w$ ).
- The Weighted sound absorption coefficient ( $\alpha_w$ ) 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 above show the third octave sound absorption coefficients measured according to ISO 354.

For more information visit [www.decrasound.com](http://www.decrasound.com) or contact Sontext or an Authorised Distributor



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