

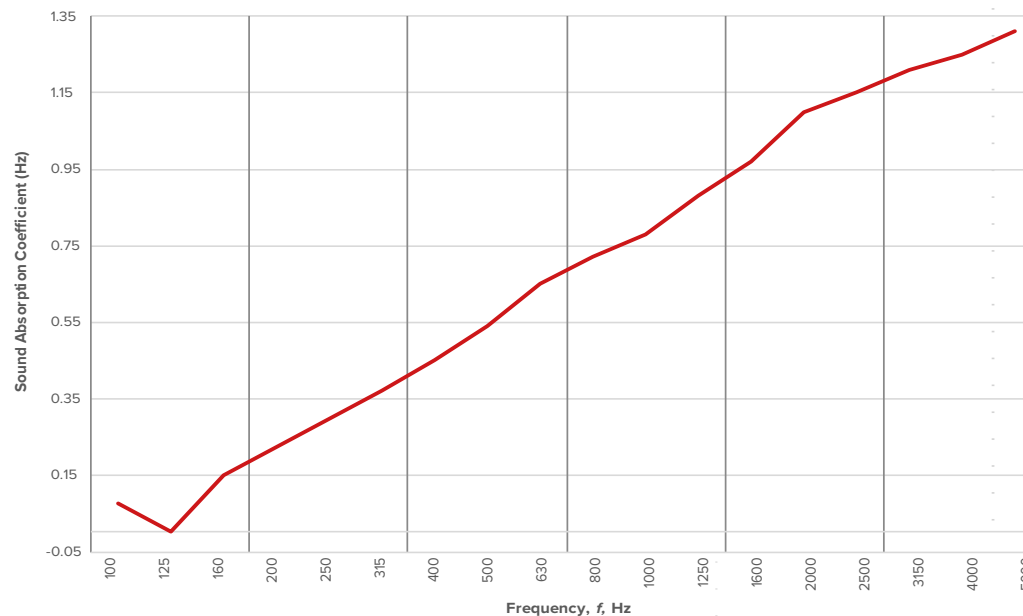
Petal Acoustic Shade

Health and well being is important to most, consider then constant exposure to a noise level above 70dB actually 'kills the ear's hair cells' - premature deafness being the result, yet restaurants commonly hover around 85dB, the workplace incurs it's own issues.

In essence all areas have their needs for acoustic consideration - incorporating this with Lighting becomes a 'Sound Idea'

SHADE COLOURS:
CHARCOAL, AMAZONITE, LAPIS

Frequency (Hz)	SAC	Oct
100	0.07	0.07
125	0.00	
160	0.15	
200	0.22	0.30
250	0.30	
315	0.37	
400	0.45	0.55
500	0.54	
630	0.65	
800	0.72	0.79
1000	0.78	
1250	0.88	
1600	0.97	1.07
2000	1.10	
2500	1.15	
3150	1.21	1.26
4000	1.25	
5000	1.31	
NRC	NRC 0.70	
Alpha	0.55 (MH)	
SAC	D	



Performance example

A typical boardroom measuring 4.2m x 4.8m x 2.7m with carpet flooring and plasterboard/ ceiling & wall surfaces plus Glazing.

- Occupied room reverberation time will be 1.1 seconds.
- Target reverberation 0.6 to 0.8 seconds (as per AS2107:2016)

An addition of 3 - 7 Sabines at each middle frequencies (500Hz-1000Hz) will result in **new reverberation time within the target range of 0.6 to 0.8.**

Achieved with 2 x Petal Shades (XL or L) or 3 x Petal Shades (M)

Environmental Benefits

Acoustek 3D Lights, Beams and Acoustic Screens are manufactured from thermally bonded polyester fibre with a minimum of 60% recycled fibre content from PET packaging such as empty drink bottles.

- Products with recycled content reduce greenhouse gas emissions.
- High reusable potential.
- The products are 100% recyclable.
- Volatile organic compounds (VOCs) generated in the manufacturing process is classified as low (0.01 mg/m3).
- No ozone-depleting gases are used during the manufacturing process.
- No red list chemicals are present.
- Safe, non-irritant, non-toxic, and non-allergenic.



Sustainable Design

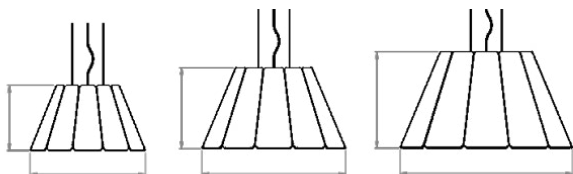
Acoustek Lights are certified GreenTagCert™ GreenRate Level A.

Suitable for use in Green Star™ projects. GreenTagCert™ is a certification and rating tool for building professionals approved by the Green Building Council of Australia (GBCAPhysical).

AS standards and BS standards:
AS 1530.3, AS 3837, BS 476

Size Options

M	L	XL
h: 420mm	h: 520mm	h: 620mm
w: 750mm	w: 930mm	w: 1115mm



Melting point:	250°C
Vapour pressure:	Not applicable
Volatiles:	Nil
Flash point:	None allocated
Other properties:	Non-allergenic, low irritant, low flame response, resilient
Ingredients:	Organic, long chain synthetic polymers
Max service temp:	110°C
Alkalinity:	pH 7.8 (pH 7 is neutral)
Moisture absorption:	Exposure to an atmosphere of 50oC and 95% RH for four days gives moisture absorption of less than 0.2% by volume

Fire Hazard Properties: The following results were obtained when subjected to early fire hazard testing in accordance with Australian Standards AS 1530.3

Ignitability | 7
Spread of Flame | 0
Smoke Developed | 5
Heat Evolved | 2



SHADE COLOUR: AUBERGINE

Petal Decorative Finishes 1:2



RUBY



APPLE



AMAZONITE



AUBERGINE



AGATE



LAPIS



MARINE



AQUA



FLANNEL



SCHIST



CHARCOAL



PUMICE

Petal Decorative Finishes 2:2



SLATE



WHETSTONE



EBONY



GRANITE



PEBBLE



BISCUIT



DULSE



MULBERRY



MOSS

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