

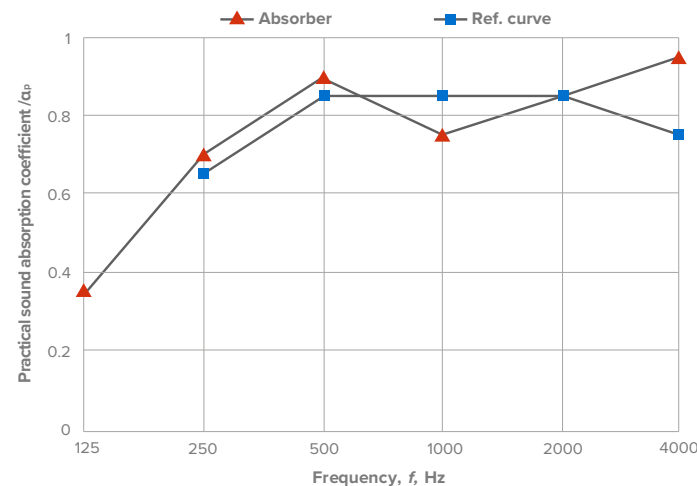
Petal Acoustic Shade

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	Reference curve	Practical sound absorption coefficient, α_p	Weighted sound absorption coefficient, α_w	Sound absorption classes
125	-	0.35	0.85	B
250	0.65	0.70		
500	0.85	0.90		
1000	0.85	0.75		
2000	0.85	0.85		
4000	0.75	0.95		



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

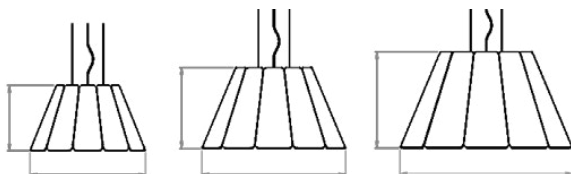
Acoustek Lights are certified GreenTagCert™ GreenRate Level A.

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 (GBCA Physical).

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
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SHADE COLOUR: AUBERGINE

Petal Decorative Finishes 1:2



RUBY



APPLE



AMAZONITE



AUBERGINE



AGATE



LAPIS



MARINE



SNOW



FLANNEL



SCHIST



CHARCOAL



PUMICE



SLATE



WHETSTONE



EBONY

Petal Decorative Finishes 2:2



GRANITE



PEBBLE



BISCUIT



DULCE



MULBERRY



MOSS



LIME



ROSE



BLUSH



LEMON



ORANGE

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