SANA

3D ACOUSTIC TILE

VISIONCHART

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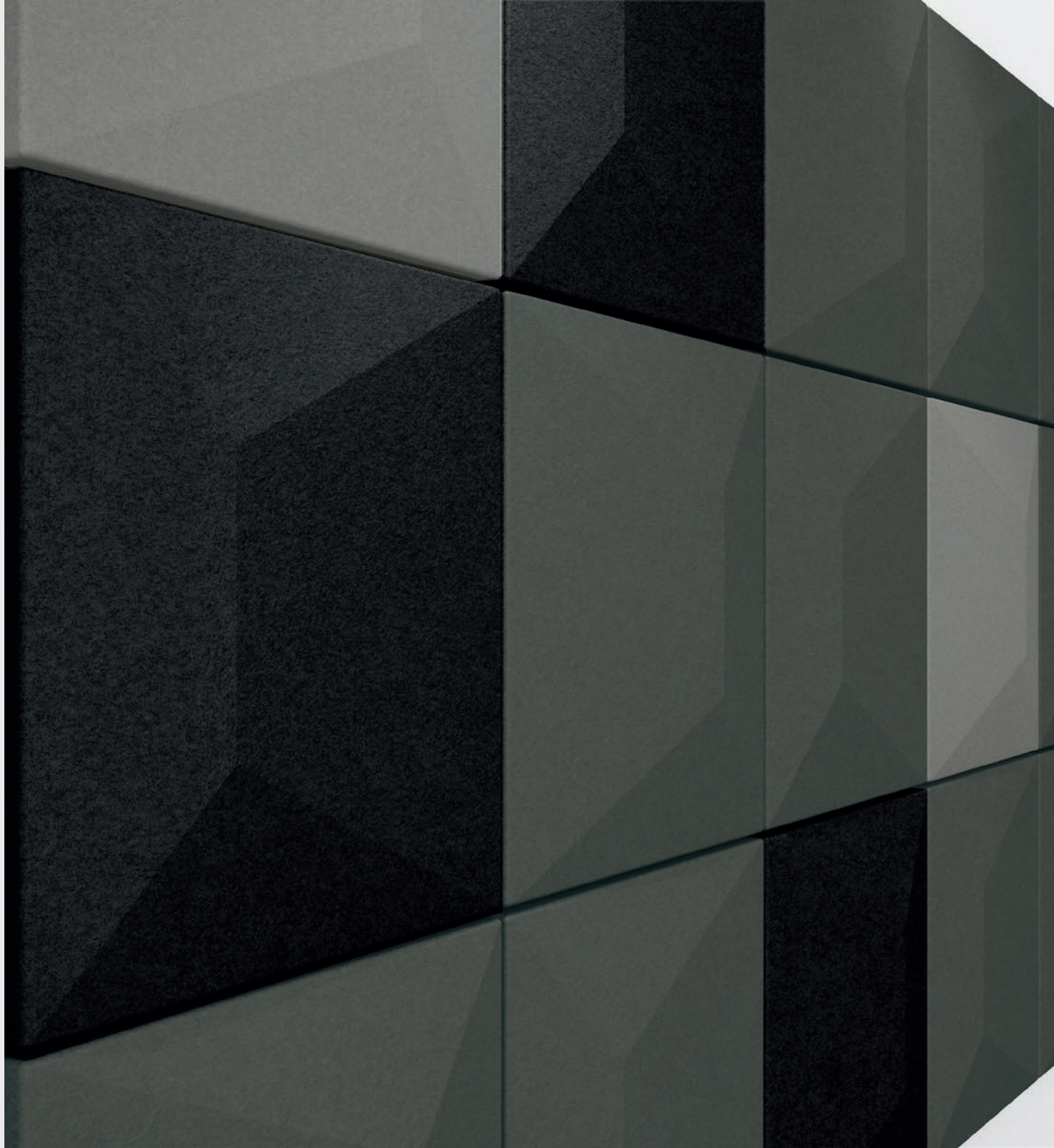


Why Acoustic Treatment?

Noise. An irritant, a pollutant, a health hazard, yet accepted by many as ‘normal’.

A good acoustic office environment can:

- Increase motivation by 60%
- Increase complex task efficiency by 50%
- Increase problem solving by 20%
- Lower adrenaline levels by 30%

Reverberate noise - an infinite number of sound reflections that will keep the ‘source sound’ audible for a short period of time.

Hard surfaces will reflect the sound more and bounce the noise wave back to meet its source, whereby it then joins the second wave of noise transmission and subsequently a third etc.

If enough surfaces produce strong audible reflections, persons within that environment will be bombarded with several versions of each noise emitted with each version only slightly delayed in time relative to the previous wave noise.

The latter is evident in many restaurants where the assault on ears can vary from chairs scraping floors, foot steps on hard surfaces, but more often general conversation where individual volume tends to increase relevant to the interfering sound reverberation, thereby contributing to the further mayhem.

Such mayhem propagates into an unhealthy auditory sphere formation bombarding the ears and all manner of other sensory perceptions.

Introducing an acoustic screen or barrier between a noise source and an individual will reduce the noise by an average of 8dB, yet the human ear perceives 50% noise reduction.

Fact.

Performance

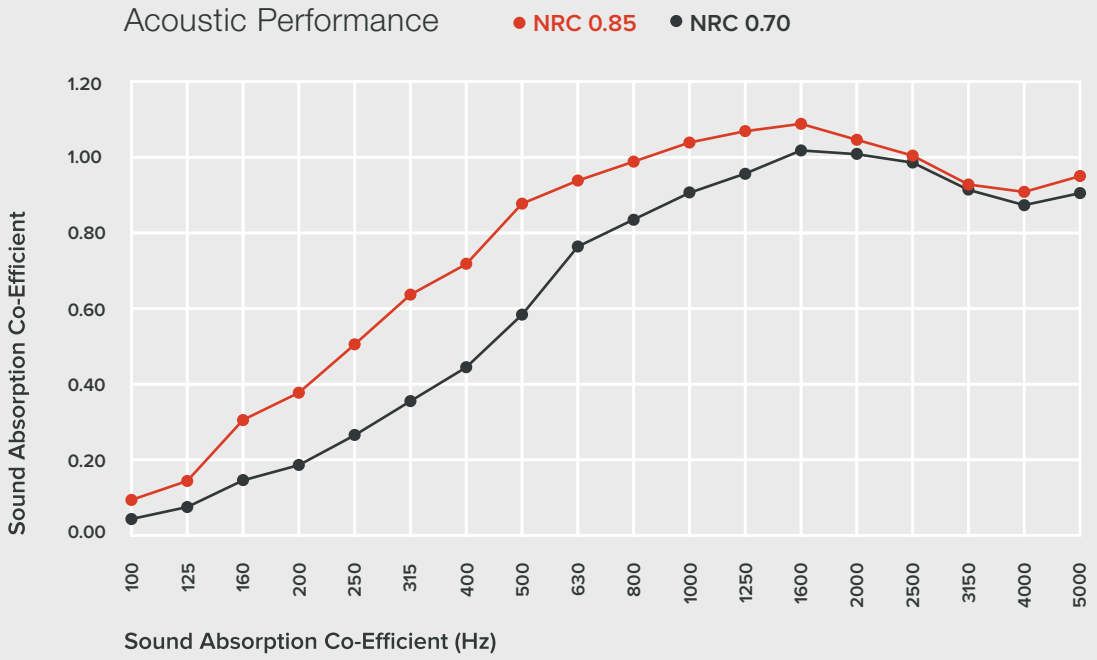
The performance of sound absorptive insulation is typically described by the Noise Reduction Co-efficient of the product. This NRC is a simplified single number that is the arithmetic average of noise attenuation over four frequencies: 250Hz, 500Hz, 1,000Hz, and 2000Hz.

In sound absorption applications, the NRC is often used as a performance measure, the higher the NRC, the greater the sound absorption at those frequencies.

However, NRC does not rate sound absorption at frequencies less than 250Hz. Absorption at low frequencies is often the most critical in building acoustics since it is typically the base sound that causes annoyance.

Visionchart SANA wall tiles have the ‘designed in’ ability to incorporate acoustic wadding (if required) to further increase their NRC rating. Compare the graph enclosed, standard black line shows excellent performance NRC of 0.70 = without wadding. Add wadding (red graph line) and we achieve NRC of 0.85.

It is important to qualify whether wadding is required or not since NRC of 0.70 is excellent noise attenuation across a broad spectrum frequency, the choice is yours.



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Why SANA 3D Tiles?

SANA 3D tiles are amongst the most efficient methods of combating reverberate noise, either planned from the outset as a design feature or retrofit as a cure for any previously unforeseen ‘noise annoyance factor’ - the latter being experienced in most commercial interiors.

The control of reverberate noise in spaces where people work, relax, socialise and learn is of critical importance. ‘Reverberant spaces’ are not natural environments for humans. Spending time in such spaces can have negative impact on productivity, learning, recuperation, enjoyment and well-being.

Fact.

70% of office workers said they could be more productive in a less noisy environment and 72% of office workers are dissatisfied with their speech privacy.

Environmental Benefits

Visionchart SANA Acoustic 3D Tiles 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

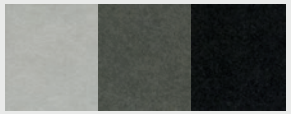
Visionchart SANA 3D Tiles are certified GreenTagCert™ GreenRate Level A.

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

TILE DESCRIPTION AND PROPERTIES	
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 50°C 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

Series 100



Cloud Ash Storm

Based upon a standard ‘diffuser pattern’ this acoustic tile provides an effective vertical or horizontal pattern with depth and contour.

Striking but simple, this acoustic tile absorbs up to 85% of reverberate noise. Soft or bold colours show the character of this tile and enhance the decor of any room.

Tile Size: 500 x 500 x 55mm
Pack Size: 9 Tiles = 2.25sqm coverage

Code	Colour	Quantity
SANA-3D-101	**Cloud**	**Pack of 9**
SANA-3D-102	**Ash**	**Pack of 9**
SANA-3D-103	**Storm**	**Pack of 9**
SANA-3D-101S	**Cloud**	**Single**
SANA-3D-102S	**Ash**	**Single**
SANA-3D-103S	**Storm**	**Single**

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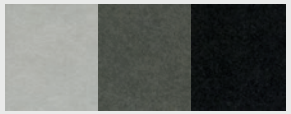
Series 200



Cloud Ash Storm

Based upon a ‘fractal’ design, this acoustic panel mimics the effect of tidal ebb and flow leaving its unique impression on Sand.

This pattern can be mounted vertically or horizontally and offers yet further design flexibility in the pursuit of arresting reverberate noise and background echo.

Tile Size: 500 x 500 x 55mm
Pack Size: 9 Tiles = 2.25sqm coverage

Code	Colour	Quantity
SANA-3D-201	Cloud	Pack of 9
SANA-3D-202	Ash	Pack of 9
SANA-3D-203	Storm	Pack of 9
SANA-3D-201S	Cloud	Single
SANA-3D-202S	Ash	Single
SANA-3D-203S	Storm	Single

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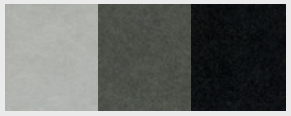
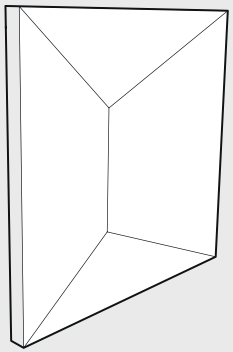
Series 300



Cloud Ash Storm



The simple creativity within this pattern continues the concept of design layout versatility. Blend all in the same colour to create an effective unobtrusive pattern.

Tile Size: 500 x 500 x 55mm
Pack Size: 9 Tiles = 2.25sqm coverage

Code	Colour	Quantity
SANA-3D-301	**Cloud**	**Pack of 9**
SANA-3D-302	**Ash**	**Pack of 9**
SANA-3D-303	**Storm**	**Pack of 9**
SANA-3D-301S	**Cloud**	**Single**
SANA-3D-302S	**Ash**	**Single**
SANA-3D-303S	**Storm**	**Single**

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*Tolerance in Size: Length +/- 5mm; Width +/- 5mm; Depth +/- 2mm.