

# PHONIC

ACOUSTIC CEILING TILES

# PHONIC HARMONY

Acoustic Suspended Ceiling Tile



High Absorption



Hygrothermal



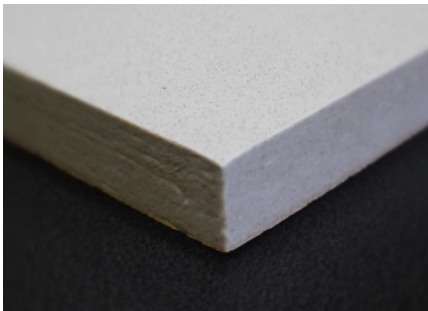
Hygiene



Fire Test- Group 15



Mineral Fibre



**30**  
YEAR  
warranty

## PRODUCT SUMMARY

Phonic Harmony acoustic ceiling tiles have monolithic white face with a very subtle sandy fibre texture. The clean monolithic look is an ideal aesthetic choice for many commercial interior space requirements. The surface is specifically engineered to provide high absorption (NRC) to reduce reverberation time while the density of the mineral fibre provides good attenuation performance across the ceiling plenum. This versatile mineral fibre ceiling tile is able to meet most standard acoustic specifications.

- Fine, monolithic texture. High light reflectance.
- High sound absorption qualities, which reduces reverberation time, and a medium Ceiling Attenuation Class (CAC) to reduce sound transfer through the ceiling plenum.
- Suitable for use in offices, education centres, lobbies, reception areas, call centres and commercial interiors.
- Mineral Fibre tiles are not only non-combustible, but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and the tile meets Cleanroom ISO Class 3.

## EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT

For Green Star rated projects, Phonic meets the Greenguard Emission Certificate standard.


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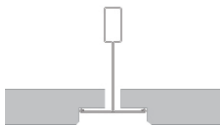



GENERAL TEST DESCRIPTION	RESULT	TEST METHOD
Absorption	NRC 0.70 $\alpha_w$ 0.70	ASTM C432-99 ASTM C432
Attenuation	CAC 37 (500-4000 Hz)	ASTM E 413
Light Reflectance	LR 75% +	BS 8493:2008
Weight	19mm: 5.3kg/m <sup>2</sup>	
Fire Test - ISO 5660 Parts 1&2	Group 1-S 	BRANZ Cone Calorimeter NZBC C/AS1-AS27
Cleanroom	Class 3	ISO 14644.3:2015
Relative Humidity	RH 99%	
Thermal Conductivity	≥ 0.045 (kcal/mh°C)	JIS A 1412
Est. R-Value (m <sup>2</sup> k/w)	R0.5	
Antimicrobial	(any result <1000 is considered low)	

Sample ID	Total Aerobic Bacteria Count cfu/ swabbed area	Actinomycetes Count cfu/ swabbed area	Yeast Count cfu/ swabbed area	Filamentous fungi Count cfu/ swabbed area
43531/1 Tile 1	30 <i>Bacillus</i> sp 33% Staph/Micrococci 67%	<10	<10	450 <i>Penicillium</i> 96% Unidentified other 4%
43531/2 Tile 2	<10	<10	<10	750 <i>Penicillium</i> 100%

Size	19mm Depth Square Edge [1200x600] [600x600] [1200x300]* 19mm Reveal Edge [1200x600] [600x600] [1200x300]* To suit 15 or 24mm grid patterns. Other sizes available on request. *Available on indent
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Colour	White
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Edge Detail	 
	Reveal Edge                      Square Edge

30 year lifetime system warranty to withstand conditions up to 50°-99% relative humidity without visible sag when used with a T&R Interior Systems brand suspension system.

## INGREDIENTS

**Mineral Fibre** - Made with 76% Recycled Content.

**Post Industrial Total 70%**- Slag wool 45%, Dust Sludge from ceiling tile production 25%, **Post Consumer Total 6%**- Recycled paper 6%, **Reused materials**- Mineral wool (by product of steel production), volcanic silicate, newsprint. **Recycled materials**- Mineral wool during the manufacturing process (preconsumed) and re collection from building/house demolition sites (postconsumed) newsprint.



## VOC INFORMATION

### GENERAL TEST DESCRIPTION ASTM D5116-10

ASTM D5116-06: Standard Guide for Small-Scale Environmental Chamber Determination of Organic Emissions From Indoor Materials/Products.

Test	Test Results (after 24 hours)	Criteria for Singapore Green Label Category 41	Pass
Total Volatile Organic Compounds (TVOC) Emissions Rate Test Result	0.15 mg per m <sup>2</sup> per hour	< 0.5 mg per m <sup>2</sup> per hour	YES

Test	Test Results (after 48 hours)	Criteria for Singapore Green Label Category 41	Pass
Formaldehyde Emission Rate Test Result	0.05 mg per m <sup>2</sup> per hour	< 0.1 mg per m <sup>2</sup> per hour or less	YES

Test	Result	Criteria for Singapore Green Label Product Category 41	Pass
Antimony, Sb	Not Detected <sup>a</sup>	Prohibited	YES
Copper, Cu	Not Detected <sup>a</sup>	Prohibited	YES
Selenium, SE	Not Detected <sup>a</sup>	Prohibited	YES
Tin, Sn	Not Detected <sup>a</sup>	Prohibited	YES
Mercury, Hg	Not Detected <sup>a</sup>	Prohibited	YES
Lead, Pb	Not Detected <sup>a</sup>	Prohibited	YES
Cadmium, Cd	Not Detected <sup>a</sup>	Prohibited	YES
Arsenic, As	Not Detected <sup>a</sup>	Prohibited	YES

## ENVIRONMENTAL INFORMATION

No	Description	Recycled Content		
		Total Recycled Content	Pre Consumer	Post Consumer
1	Phonic Mineral Fibre Board (MN) Mineral Fiber Ceiling Board	76%	70%	6%