

PHONIC

ACOUSTIC CEILING TILES

PHONIC CLEAN

Acoustic Hygiene Ceiling Tile



High Absorption



Hygiene



Hygrothermal



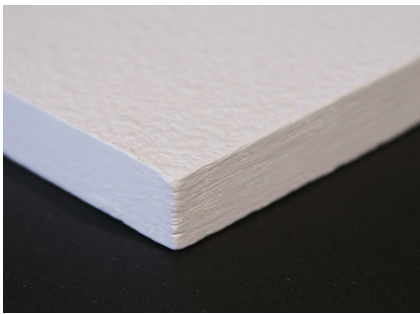
Lightweight Tile



Fire Test- Group 1S



Glasswool



PRODUCT SUMMARY

Phonic Clean is a hydrophobic treatment which can be applied to the Phonic range of ceiling tiles. It is a glasswool ceiling tile with a water-repellent, white painted, monolithic, pre-finished face.

- Suitable for use in medical centres, hospitals, laboratories and other commercial interiors.
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and the tile meets Cleanroom ISO Class 3.
- Water repellent face; can be wiped and cleaned, won't allow moisture penetration. Wipeable and cleanable face; stains don't stick.
- Optional foil backing to allow positive pressure in ceiling plenum.
- High Noise Reduction Coefficient. Reduces reverberation time and improves speech intelligibility. This is very important for patient well-being. Good acoustics promote faster recovery times.
- Lightweight tile (non-Combo) is ideal for seismic design.

10 year warranty to withstand conditions up to 40°C and 99% relative humidity without visible sag. Tiles should be installed in accordance with NZS1170.5 and the grid manufacturer's instructions.

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 (ISO 354) (with foil backer)	NRC 0.80 SAA 0.87 α W 0.75	ASTM C423 ASTM C423 ISO 11654: 1997		
Attenuation (ASTM E1414-11A)	CAC 26 Dn,c,w 26	ASTM E1477-98 ISO 717-1		
Light Reflectance	LR 84%+	ASTM E1477-98		
Density	100kg/m ³			
Weight	15mm: 1.5kg/m ²			
Fire Test (ISO 5660 Part 1)	Group 1-S 	Cone Calorimeter NZBC C/VM2 Appendix A		
Cleanroom	ISO Class 3	ISO 14644.3:2015		
Moisture Rate	≤ 1%	JC/T 670 – 2005		
Thermal Resistance	≥ 0.4 (m ² -k/w)	ASTMC 423		
Antimicrobial	(any result <1000 is considered low)			
Sample	Total Bacteria per 10cm²	Total Actinomycetes per 10cm²	Total Yeast per 10cm²	Total Fungi per 10cm²
Tile 1	10 Staphylococcus aureus 100%	<10	<10	30 Cladorsporium 34%, Penicillium 33%, Non- sporing fungus 33%
Tile 2	<10	<10	<10	10 Penicillium 100%
Est. R-Value (m ² k/w)	15mm: R0.4			
Colour	White			
Size	Depth: 15mm, Square Edge, Concealed Edge, [1200 x 600], to suit 24mm grid patterns.			
Edge Detail				

* For Acoustic performance for different tiles, see the relevant Phonic datasheets. This test data shows 15mm with foil backer. Available on indent as Phonic Direct Fix. See Phonic Direct Fix datasheet. Available on indent as Phonic Combo + (with attenuating backer) See Phonic Combo + datasheet.

INGREDIENTS

Fibreglass tissue face with acrylic resin (back and front of tile) 7-10% - Fibreglass (Glasswool) 80-85%, Acrylic resin 15-20%, **Acoustic board 70-80%** - Glasswool 88-89%, Phenolic resin 11-12%, **Water-based paint 20-25%** - Acrylic emulsion 10-15%, Inorganic filler (Kaolin, Calcium carbonate) 40-55%, Environmentally friendly flame retardant 15-25%, A variety of additives (Dispersant, Leveling agent; from Polycarboxylate ammonium salt, EGBE-Ethylene glycol monobutyl ether, Water) 3-5%, Ion water 15-20%, **Glue 2-4%** - Acrylic resin 50-55%, Ion water 45-50%.



VOC INFORMATION

GENERAL TEST DESCRIPTION		ASTM D5116-06	
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 Product	Pass
Total Volatile Organic Compounds (TVOC) Emissions Rate Test Result	0.11 mg per m ³ per hour	0.25 mg per m ³ per hour or less	YES
Test	Test Results (after 48 hours)	Criteria for Singapore Green Label Product	Pass
Formaldehyde Emission Rate Test Result	< 0.01 mg per m ³ per hour	0.02 mg per m ³ per hour or less	YES
Test	Test Results (after 48 hours)	Criteria for Singapore Green Label Product	Pass
4-Phenylcyclohexene Emission Rate Test	Not Detected*	0.0065 mg per m ³ per hour or less	YES
Test	Test Results (after 48 hours)	Criteria for Singapore Green Label Product	Pass
Total Phthalate Emission Test Result	< 0.003 mg per m ³	< 0.01 mg per m ³	YES
Test	Test Results (after 48 hours)	Criteria for Singapore Green Label Product	Pass
Total Particles Emission Test Result	0.01 mg per m ³	<0.02 mg per m ³	YES

ENVIRONMENTAL INFORMATION

Recycled product: the rate of pre-consumer recycled content in Phonic fibreglass ceiling tiles is 80%. The recycled content includes 30% industrial waste and 70% civilian used waste, all procured from reclamation depots.

The Factory has invested significant amounts into energy conservation and emission reduction and the factory runs on renewable energy sources. Professional air purification devices purify polluted air at the factory.

The Factory supplies a Gypsum Brick which utilises the scrap glasswool material created as a by-product during manufacture of the Phonic tiles. This brick is commercially available overseas.

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