

PHONIC

ACOUSTIC CEILING TILES

PHONIC IMPACT

Acoustic Sports Ceiling Tile



High Attenuation



High Absorption



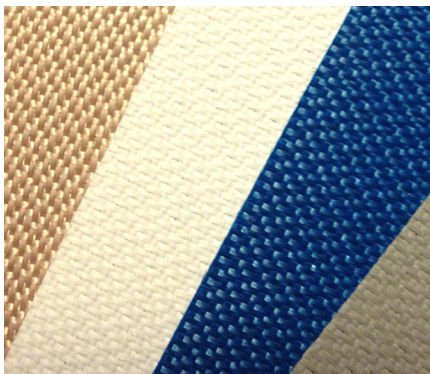
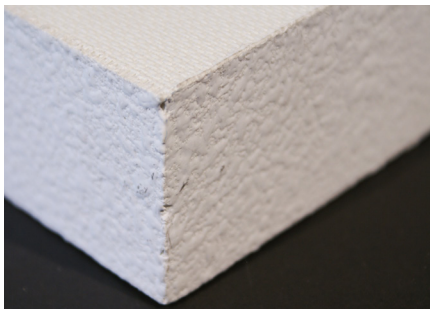
Impact Resistant



Fire Test- Group 1S



Glasswool



PRODUCT SUMMARY

The Phonic Impact sports sound panel is a 40mm thick glasswool ceiling tile with a strong fibre glass face.

- Exceptionally high acoustic properties, the high Noise Reduction Coefficient will reduce reverberation time. Withstands knocks and ball impact. Mid-range tile.
- Due to its unique strong impact resistant fibre glass face, it is ideal for gymnasiums, sports centres, schools and community halls. It can withstand significant impact and the Robo-clip system will prevent tiles from dislodging if required.
- This product is constructed from 90% dry felt resin bonded glass-wool, utilizing longer fibres in a compact fibre arrangement. The non-absorbent, non-water soluble design gives Phonic Impact improved durability when compared to mineral fibre. Phonic Impact achieves a density of 100kg/m³. This results in a light weight, high performance ceiling tile which is user friendly and ideal for use gymnasiums, sport centres, community halls, workshops, kitchens and schools.
- Suspend Phonic Impact sports panels in a standard T&R Interior System two way grid system. Use Robo clips to prevent tiles from dislodging.
- Can be ink-jet printed with custom designs and logos. Available in a selection of colours on indent – standard colour is white.

EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT

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


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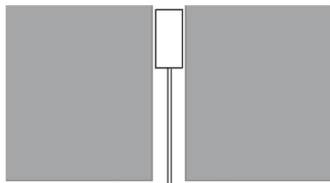
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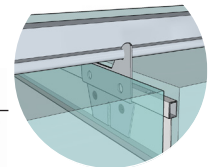
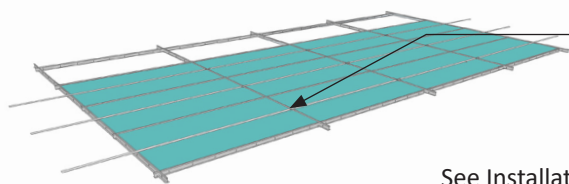
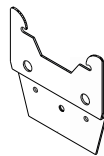


GENERAL TEST DESCRIPTION	RESULT	TEST METHOD
Absorption (ISO 354) 40mm	NRC 0.90	ASTM C432-99
	α_w 0.95	ISO 11654
	SAA α_w 0.96	ASTM C423-99
Attenuation (ASTM E1414-11A) 40mm	CAC 40	ASTM E413-10
	$D_{n,c,w}$ 40	ISO 717-1
Light Reflectance	LR 84% +	(white panel only)
Density	100kg/m ³	
Weight	40mm: 4kg/m ²	
Fire Test - ISO 5660 Parts 1&2	Group 1-S 	Cone Calorimeter NZBC C/AS1-AS27
Thermal Conductivity	≥ 0.04 (kcal/mh°C)	JIS A 1412
Est. R-Value (m ² k/w)	R1	
Size	40mm Depth Square Edge x [600x1200] [600x600]. Other sizes available on request.	
Colour	White Available on indent; Black, Blue, Grey, Caramel - MOQ apply	
Installation	Designed to fit into a standard 24mm two way exposed grid. Use Robo Clip detail to prevent tiles from dislodging. For High impact zones use two rails, for standard impact zones use one rail across each tile.	

Edge Detail



Square Edge 24mm Grid



Robo Clip

See Installation Guide for details



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.

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%.