

# PHONIC

ACOUSTIC CEILING TILES

# PHONIC TECH

Specialised Acoustic Panel



High Absorption



Hygrothermal



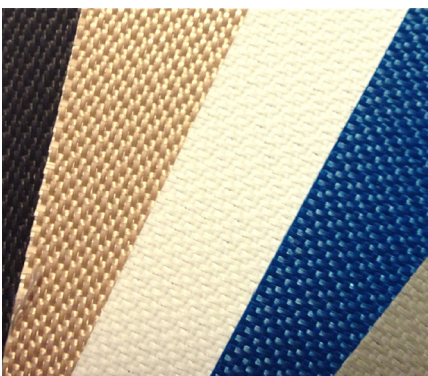
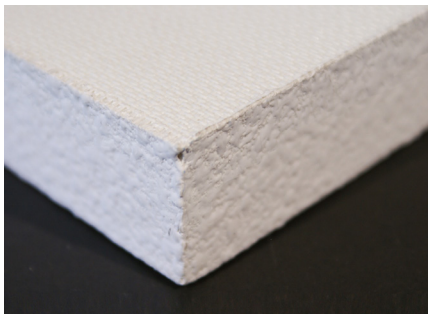
Fire Test- Group 1S



Glasswool



Hygiene



## PRODUCT SUMMARY


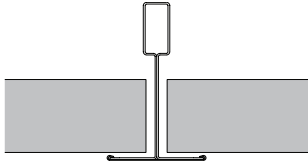
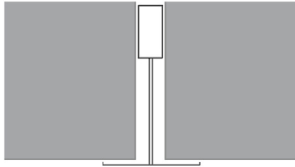
The Phonic Tech is a 20mm and 40mm thick glasswool ceiling tile or 40mm acoustic panel with a strong woven fibre glass face.

- Great acoustic properties, the high Noise Reduction Coefficient will significantly reduce reverberation time.
- Can be wiped for easy cleaning. Stain resistant face. Mid-range tile.
- Due to its unique strong woven fibre glass face, it is ideal for workshops, tech spaces, kitchens, laboratories and hygiene spaces. The face has been tested and proven to prevent growth of microbial activity. Suspend Phonic Tech panel in a standard T&R Interior Systems two way grid system or mount on the wall using a specialised aluminium frame.
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and meets Cleanroom ISO Class 3.
- This product is constructed from 90% dry felt resin bonded glasswool, utilizing longer fibres in a compact fibre arrangement. The non-absorbent, non-water soluble design gives Phonic Tech improved durability when compared to mineral fibre. This tile achieves a density of 100kg/m<sup>3</sup>. This results in a lightweight, high performance ceiling tile which is user friendly and ideal for use in gymnasiums, sport centres, community halls, workshops, kitchens and schools.
- 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.



GENERAL TEST DESCRIPTION	RESULT	TEST METHOD
Absorption (ISO 354) (40mm)	NRC 0.90	ASTM C432-99
	$\alpha_w$ 0.95	ISO 11654:1997
	SAA 0.96	ASTM C423-99
Absorption (ISO 354) (20mm)	NRC 0.85	ASTM C423-99
Attenuation (ASTM E1414-11a) (40mm)	CAC 40	ASTM E413-10
	$D_{ncw}$ 40	ISO 717-1
Light Reflectance	LR 84% +	
Weight	20mm: 2kg/m <sup>2</sup>	40mm: 4kg/m <sup>2</sup>
Density	100kg/m <sup>3</sup>	
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 <sup>2</sup> k/w)	40mm: R1	20mm: R0.5
<b>Microbial Test: When tested for surface contamination the microbial levels were found to be very low. While there were low levels of fungi detected it should also be noted that there were no bacteria or yeasts found in the samples taken.</b>		
Size	20mm Depth and 40mm Depth Square Edge [600x1200] [600x600] [1200x2400] 40mm other sizes available on request.	
Colour	White Black, Blue, Grey, Caramel available on indent- MOQ apply.	
Installation	Designed to fit into a standard 24mm two way exposed grid.	
Edge Detail	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>20mm Square Edge</p> </div> <div style="text-align: center;">  <p>40mm Square Edge</p> </div> </div>	

## 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%.