



INDENT ONLY

# C MAX PHONIC CLEAN ANTI-BACTERIAL

Acoustic Hygiene Ceiling Tile



Phonic Clean Anti-bacterial is a Hydrophobic and anti-bacterial treatment applied to the C Max range of ceiling. Suitable for use in medical centres, hospitals, laboratories and other commercial interiors where anti-bacterial properties are required.

- 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; stains don't stick.
- Optional foil backing to allow positive pressure in ceiling plenum. The Phonic Clean Anti-bacterial treatment is also available on the C Max Combo tile with plasterboard backer to increase acoustic performance.
- This range of tiles has a high Noise Reduction Coefficient. The tiles reduce reverberation time and improve speech intelligibility. This is very important for patient well-being. Good acoustics promote faster recovery times.
- Lightweight tile is ideal for seismic design.

10 year warranty to withstand conditions up to 40° 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, C Max meets the Greenguard Emission Certificate standard.

Wellington Head Office  
12 Glover St, Ngatairanga  
Wellington 6026  
PO Box 28532  
Wellington Mail Centre 6045  
/p/ 04 489 6616

Auckland  
18-21 Fairfax Ave,  
Parsons, Auckland 1061  
PO Box 112360,  
Parsons, Auckland 1642  
/p/ 09 671 0286

Christchurch  
89 Barwell St, Addington  
Christchurch 8023  
PO Box 7187  
Christchurch 8240  
/p/ 03 368 2607



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## Acoustic Hygiene Ceiling Tile

**TEST METHOD** ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

**TEST ORGANISM** Staphylococcus aureus ATCC 6538P, Escherichia coli ATCC 8739

Test Organism(s)	Concentration of Bacteria (cfmu/mL)	Volume of test inoculum (mL)	The log value of the number (cfu/cm <sup>2</sup> ) that bacteria recovered from the different contact time			The Value of antimicrobial activity
			/	at "0h"	at "24h"	
			Contact time	Contact time		
Echerichia Coli ATCC 8739	7.6x10 <sup>5</sup>	0.2	Sample	/	-0.21	5.4
			Control Sample	3.97	5.18	
Staphylococcus Aureus ATCC 6538P	5.8x10 <sup>6</sup>	0.2	Sample	/	-0.21	5.3
			Control Sample	3.81	5.08	


The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.

### TEST DESCRIPTION

### RESULT

### TEST METHOD

For Acoustic performance for different tiles, see the relevant C Max datasheets. This test data shows 15mm with foil backer.

Absorption (ISO 354 (with Foil Backer)	NRC 0.80	ASTM C423
	SAA 0.87	ASTM C423
	aW 0.75	ISO 11654: 1997
Attenuation (ASTM E1414-11A)	CAC 26	ASTM E413-10
	Dn,c,w 26	ISO 717-1
Light Reflectance	LR 84%+	ASTM E1477-98
Density	100kg/m <sup>3</sup>	
Weight	20mm: 2kg/m <sup>2</sup>	
Fire Test - ISO 5660 Part 1	 2013 Fire Test 1-5 Classification	Group 1-5 Cone Calorimeter NZBC C/VM2 Appendix A
Cleanroom	ISO Class 3	ISO 14644.3:2015
Moisture Rate	≤ 1 %	JC/T 670 – 2005
Thermal Resistance Est. R-Value (m <sup>2</sup> k/w)	≥ 0.4 (m <sup>2</sup> -k/w) 15mm: R0.4	ASTMC 423
• <b>COLOUR</b>	White	
• <b>SIZE</b>	Depth: 15mm Square Edge [1200 x 600]	

To suit 24 mm grid patterns

Available on indent as C Max Direct Fix (Identical acoustic/weight properties)

Available on indent as C Max Combo (with Plasterboard backer) 35mm and 50mm

Wellington Head Office  
12 Glover St, Ngatairanga  
Wellington 6126  
PO Box 28532  
Wellington Mail Centre 6145  
/p/ 04 489 6616

Auckland  
18 - 21 Fairfax Ave,  
Parsons, Auckland 1061  
PO Box 112361,  
Parsons, Auckland 1642  
/p/ 09 671 0286

Christchurch  
89 Barwell St, Addington  
Christchurch 8023  
PO Box 7187  
Christchurch 8240  
/p/ 03 368 2607