

## INTERIOR ACOUSTICS

# QUIETSPACE® PANEL

## MANUFACTURERS GUARANTEE

Quietspace® Panel is manufactured by Autex Industries Ltd under an ISO 9001 certified Quality Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturers Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Product Name** Quietspace® Panel  
**Description** 100% polyester fibre needle punched and thermally bonded

Minimum Noise Reduction Coefficient 0.85  
 Acoustic testing to ISO 354. University of Auckland Testing Service Report

AUTEX	METRIC	IMPERIAL
Panel Dimensions	1220mm x 2440mm	4' x 8'
	(+5mm/-0mm) x (+10mm/-0mm)	(+0.20') x (+0.39')
Thickness	25mm 50mm 75mm 100mm	1" 2" 3" 4"
Tolerance	(+/- 6%)	(+/- 6%)
Weight	2300gsm 3800gsm 4050gsm 4300gsm	7.54oz/ft <sup>2</sup> 12.45oz/ft <sup>2</sup> 13.27oz/ft <sup>2</sup> 14.09oz/ft <sup>2</sup>

	University of Auckland Test report Number	Frequency (Hz)						NRC
		125	250	500	1000	2000	4000	
25mm	T0712-18	0.15	0.45	0.85	1.00	1.00	1.00	0.85
50mm	T1228-8	0.30	0.75	1.00	1.00	1.00	1.00	1.00
75mm	T1905-4	0.50	0.90	1.00	1.00	1.00	0.95	1.00
100mm	T1905-5	0.65	1.00	1.00	1.00	0.95	0.95	1.00

### COMPOSITION

100% Polyester Fibre from polyethylene terephthalate (PET). Quietspace Panel contains a minimum of 45% recycled polyester fibre.

### SUITABLE APPLICATIONS

High-performance acoustic control for building interiors including: Theatres, Auditoriums, Recording/Broadcasting Studios, Gymnasiums, Open-plan Offices, Restaurants and Classrooms.

### LIGHT REFLECTANCE

White Quietspace Panel is suitable for indoor use only and has a light reflectance value of 83 (measured in accordance with BS 8493:2008+A1:2010).

### FIRE RATINGS

(Testing results for 25mm & 50mm Quietspace® Panel)

#### ISO 9705: 1993

Classification: Group 1-S  
 Smoke Production Rate: <5.0m<sup>2</sup>/s  
 As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
 (SMOGRARC): <100m<sup>2</sup>/s<sup>2</sup>  
 Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C.1.10-4.  
 FI 4871 dated 11th July, 2012  
 FAR 4055-2 dated 8th October, 2013

#### EN13501-1:2007 (25mm Quietspace® Panel)

B - s2, d0  
 Report 185157 dated 22nd July, 2009

#### EN13501-1:2007+A1:2009 (50mm Quietspace® Panel)

B - s2, d2  
 Report WF 336912 dated 25th February, 2014

#### ASTM E-84-14:

25mm / 1": Class A FS:0 - SD:10  
 Report RJ3297-7 dated 12th June, 2014  
 50mm / 2": Class B FS:50 - SD:130  
 Report RJ3297-6 dated 12th June, 2014

### ACOUSTIC PERFORMANCE

Quietspace Panel is specifically designed to reduce and control reverberated (echo) noise in building interiors.

### IMPACT RESISTANCE

ISO 7892:1988

#### Hard Body Impact

There is no surface damage or penetration to Quietspace Panel when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 14-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 3m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5m height.

#### Soft Body Impact

There is no surface damage or penetration to Quietspace Panel when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 120-joule impact. This is equivalent to the impact of a 50kg object dropped from a 250mm height.

### THERMAL PERFORMANCE

(Internally tested by Autex Lab)

25mm: R0.64 (@15°C)  
 50mm: R1.48 (@15°C)

### VOC EMISSIONS

Autex polyester has been tested by Cetec Pty Ltd (Report: CV170908) for chemical emission and is classified as low VOC.

VOC concentration: 0.009 mg/m<sup>3</sup> (7 days)

### PHYSICAL DESCRIPTION / PROPERTIES

Boiling Point: N/A  
 Melting Point: 250°C | 482°F  
 Vapour Pressure: N/A  
 Specific Gravity: Flash point: Polyester 1.38  
 N/A  
 Explosive limits: N/A  
 Solubility in water: Not soluble  
 Alkalinity: pH 7.8  
 Relative Vapour Density: N/A

### CARE AND MAINTENANCE

Maintain in accordance with the Care and Maintenance Guide available for this product.

