Quietspace®
Panel

Quietspace® Panel is manufactured by Autex Industries Ltd under an ISO 9001 certified Quality and 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

Panel Dimensions 1220mm x 2440mm
(+ 5mm/−0mm)   (+ 10mm/−0mm)

Thickness and Weight

25mm (+/−6%): 2400gsm   75mm (+/−6%): 5260gsm
50mm (+/−6%): 3900gsm   100mm (+/−6%): 6800gsm

Thickness measured in accordance with AS/NZS 2111.1:1996 – ISO2094:1986

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.

Colour Fastness to Light

Quietspace® Panel is suitable for indoor use only. Colour and light-fastness are dependent on use and exposure. Quietspace® Panel has been tested and is guaranteed to perform to the following standard; ISO105-B02-1994 (Grey Scale 1-5):
Light Fastness Rating 3

Fire Ratings (Testing results for 25mm Quietspace® Panel)

ISO 9705: 1993

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

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRA$_{RC}$): <100m^2/s2
As required by BCA C1.10
Tested 16 May 2012, BRANZ (FI 4871)

EN13501-1:2007

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

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

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

Acoustic Performance

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

Minimum Noise Reduction Coefficient 0.85

Acoustic testing to ISO 354. University of Auckland Testing Service Report
25mm Test: T0712. 50mm Test: T0712-13. 75mm Test: T1409-5. 100mm Test: T1409-3.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
25mm (α_S)	0.12	0.47	0.88	0.98	0.99	0.93	0.85
50mm (α_S)	0.48	0.85	1.07	1.04	0.96	0.89	1.00
75mm (α_S)	0.56	1.05	1.12	1.02	0.98	0.99	1.05
100mm (α_S)	0.91	1.06	1.06	1.00	0.98	1.00	1.05

Thermal Performance

25mm: R0.64 (@15°C)
50mm: R1.48 (@15°C)
75mm: R2.12 (@15°C)
100mm: R2.96 (@15°C)

Toxicity

Polyester is classed as no more toxic than wood under the state of New York Article 15 part 1120. Polyester is pH7.8 (where pH7.0 is neutral). Resistant to biological, bacterial or vermin attack.

Impact Resistance

Quietspace® Panel has been impact resistance tested to EN13964:2004 and meets the criteria of Class 1A; not adversely affected at impact velocities over 16.5m/s.

Physical description / properties

Boiling Point: N/A
Melting Point: 230°C
Vapour Pressure: N/A
Specific Gravity: Polyester 1.38
Flash point: 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.