| Product overview | Quietspace® Panel is a high-performance acoustic treatment engineered to absorb a minimum of 85% of the sound energy it meets. Made from 100% polyester fibre, Quietspace Panel has a hard, compressed face and cushioned backing, available in 25 mm, 50 mm, 75 mm, and 100 mm thicknesses. |

Specification

(Wall/Ceiling) treatment shall be Quietspace® Panel made from thermally bonded polyester containing no less than 45% recycled material as manufactured by Autex www.autexglobal.com

Panel 1200 mm x 2400 mm x (_)mm nom depth, sound absorption: 25 mm: Class C, NRC 0.85, 50 mm: Class A, NRC 1.00. Fire rating 25 mm, 50 mm,

75 mm and 100 mm: ISO9705: Classification: Group 1-S, AS ISO 9705 – 2003: Group 1, EN13501-1:2007: B – s2, d0 50 mm: EN13501-1:2007+A1:2009: B - s2, d2

Install as per Autex Acoustics recommendations. If Quietspace Panel is to be specified for use other than as a ceiling or wallcovering please seek guidance from your specification manager.

Product specifications

Product name   Quietspace® Panel
Composition   100% polyester fibre (PET)
Panel dimensions 1200 mm x 2400 mm
Tolerance   (+ 5 mm) x (+ 10 mm)

Thickness	25 mm	50 mm	75 mm	100 mm
Tolerance	(+/- 6%)	(+/- 6%)	(+/- 6%)	(+/- 6%)
Weight	2300 gsm	3800 gsm	4050 gsm	4300 gsm

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).

Thermal performance
(Internally tested by Autex Lab)
25 mm: R0.6 (@23°C)
50 mm: R1.4 (@23°C)
75 mm: R1.9 (@23°C)
100 mm: R2.4 (@23°C)

Installation
Install as per Autex Acoustics recommendations. Install instructions are included in each pack, or available on the website.
If Quietspace Panel is to be specified for use other than as a wallcovering, please seek guidance from your specification manager. In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to.

Please consult the project engineer and relevant expert such as a fire protection engineer.

Product specifications

Fire ratings

Quietspace® Panel has been evaluated using the following test methods:

ISO 9705: 1993
Classification: Group 1-S
Smoke production rate:
<5.0m2/s
As required by NZBC C/VM2

AS ISO 9705 - 2003
Classification: Group 1
(SMOGRArc): <100m2/s2
Assessed using methodology AS ISO 9705:2003
in accordance with AS 5637.1:2015, as required
by BCA Specification C1.10-4
FI 4871
FAR 4055

EN13501-1:2007
(25 mm Quietspace® Panel)
B - s2, d0
Report 185157

EN13501-1:2007+A1:2009
(50 mm Quietspace® Panel)
B - s2, d2
Report WF 3369

ASTM E84 - 14
(1" Quietspace® Panel)
Class A, FS:0 - SD:10
RJ3297

Water vapour sorption

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorped after 4 days:
0.4% by weight.

Pattern repeat

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

Impact resistance
ISO 7892:1988

Hard body impact

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

Soft body impact

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

Microbial resistance
ASTM G21-15
Growth rating: 0 (No growth)
Quietspace Panel does not promote the growth of moulds and mildew.

Fabric care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution. Custom printed Quietspace Panel requires the services of a specialist cleaning company. Refer to the Quietspace Panel Care and Maintenance Guide for more information.

Environmental

Autex Acoustics is committed to best practice through our ISO 14001 certified Environmental Management Systems.

Quietspace Panel contains a minimum of 45% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Quietspace Panel is manufactured from 100% polyester fibre and does not contain formaldehyde binders. Autex Acoustics polyester fibre supports safer indoor air quality and will not become a potential airborne pollutant.

Service

For further information about Quietspace Panel or any other Autex Acoustics product, please contact your account manager or visit our website.

Acoustic performance

Quietspace Panel is specifically designed to reduce and control reverberated noise and echo in building interiors. Minimum Noise Reduction Coefficient 0.85

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 25 mm	0.15	0.45	0.85	1.00	1.00	0.95	0.85
● 50 mm	0.30	0.75	1.10	1.10	1.05	1.00	1.00
● 75 mm	0.50	0.90	1.05	1.05	0.95	0.90	1.00
● 100 mm	0.65	1.00	1.05	1.00	0.95	0.90	1.00

Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (according to ISO 354 measurement of sound absorption in a reverberation room). The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.
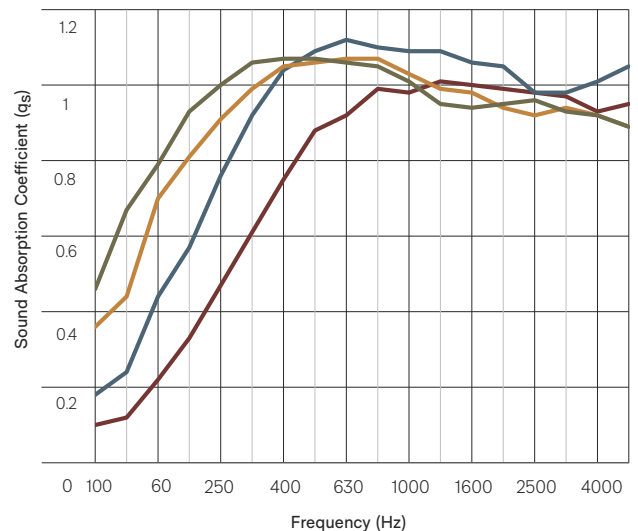
Absorption Coefficient according to ISO 354
University of Auckland Testing Service
Quietspace Panel 25 mm - test no. T0712-18
Quietspace Panel 50 mm - test no. T1228-8
Quietspace Panel 75 mm - test no. T1905-4
Quietspace Panel 100 mm - test no. T1905-5

Caring for the environment

Quietspace Panel is manufactured using 100% polyester fibre and contains a minimum of 45% recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, Health Product Declaration (HPD), and CDHP Standard certified.

Quietspace Panel is DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.