Autex Acoustics®

Quietspace® Panel

Data Sheet

Product overview

Quietspace® Panel is a high-performance acoustic treatment engineered to absorb 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.

Sustainable material

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content
  - >60% recycled material
- Low VOC and CDPH compliant
  - <0.035 mg/m3 (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

Environmental certifications

- EPD – compliant with ISO 14025 and ISO 15804
- Declare – Red List free (third party verified)
- ISO 14001 Certified Environmental Management
- Health Product Declaration
- CDPH Standard

Certifying your green building

Autex Acoustics products meet criteria for WELL, LEED, Green Star, and BREEAM building rating systems, helping you achieve certification for your project. For support and guidance on available rating system points please visit www.autexglobal.com, or speak with your Autex Acoustics account manager.

Specification

(Wall/Ceiling) treatment shall be Quietspace® Panel made from thermally bonded polyester containing not less than 45% recycled material as manufactured by Autex www.autexglobal.com

Panel 1220 mm x 2440 mm x (_)mm nom depth, sound absorption: 25 mm: Class C, NRC 0.85, 50 mm: Class A, NRC 1.00. Fire rating full range of thicknesses:

ISO9705: Classification: Group 1-S, AS ISO 9705 – 2003: Group 1, 25 mm BS EN 13501-1:2018: 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 account manager.

Product specifications

Product name	Quietspace® Panel
Composition	100% polyester fibre (PET)
Panel dimensions	1220 mm x 2440 mm
Tolerance	(+ 5 mm) x (+ 10 mm)

Thickness	25 mm	50 mm	75 mm	100 mm
Tolerance	(+/- 6%)	(+/- 6%)	(+/- 6%)	(+/- 6%)
Weight	2100 gsm	3600 gsm	3850 gsm	4100 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).

Installation
Install as per Autex Acoustics recommendations. Install instructions are included in each pack, or available on the website. 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. If Quietspace Panel is to be specified for use other than as a wallcovering, please seek guidance from your account manager.

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

BS EN 13501-1:2018
(25 mm Quietspace® Panel)
Wall applications
Classification: B-s2,d2
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.
EUI-21-000135-E-A

Ceiling applications
Classification: B-s2,d2
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014.
EUI-21-000135-E-B

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.

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

Acoustic performance

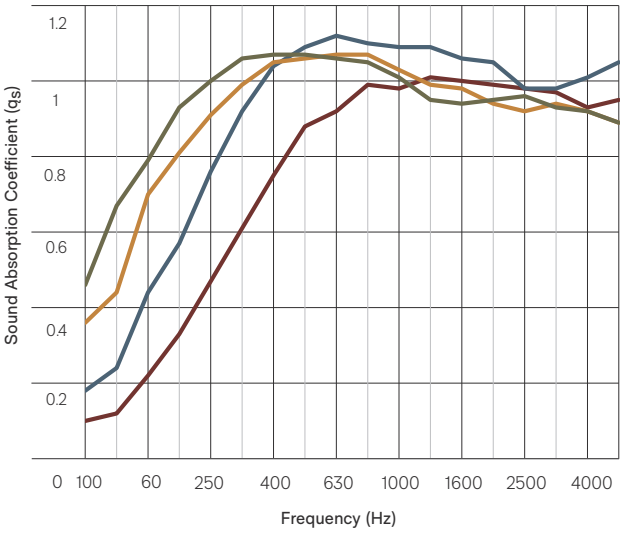
Quietspace Panel is specifically designed to reduce and control reverberation and echo noise in building interiors. Minimum Noise Reduction Coefficient 0.85

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 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



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