Autex Acoustics®

Composition®

Data Sheet

Product overview

Composition® is a durable, high-performance acoustic wallcovering designed as a paint or wallpaper alternative. Available in two thicknesses and made from 100% polyester fibre, Composition has a velvety soft hook-and-loop receptive pile, and pinnable self-healing surface.

Sustainable material

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content
  - >60% recycled material
- Low VOC and CDPH compliant
  - <0.0035 mg/m3 (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

Environmental certifications

- EPD – compliant with ISO 14025 and EN 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) treatment shall be Autex Acoustics Composition® made from non-woven needle-punched polyester containing not less than 60% recycled material as manufactured by Autex www.autexglobal.com

Roll 10 - 12 mm (nom.) depth, colour (_), sound absorption: Class D, NRC 0.40, Fire ratings: ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003: Classification: Group 1, BS EN 13501-1:2018: B - s1, d0.

Panel 16 - 18 mm, (nom.) depth, colour (_), sound absorption: Class D, NRC 0.55, Fire ratings: ISO 9705: Group 1-S, AS ISO 9705: Group 1

Install as per Autex Acoustics recommendations. If Composition is to be specified for use other than as a wallcovering, please seek guidance from your account manager.

Product specifications

Product name	Composition® 12 mm
Composition	100% polyester fibre (PET)
Roll dimensions	1.22 m x 25 m
Tolerance	(+ 5 mm) (+ 10 mm)
Thickness	10 - 12 mm
Weight	1680 gsm

Product name	Composition® 18 mm
Composition	100% polyester fibre (PET)
Panel dimensions	2140 mm x 1220 mm, 2440 mm x 1220 mm, 2740 mm x 1220 mm
Tolerance	(+ 5 mm) (+ 10 mm)
Thickness	16 - 18 mm
Weight	2980 gsm

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

Thermal performance
10 - 12 mm R0.22 @ 15°C (NZ) R0.20 @ 23°C (AU)
16 - 18 mm R0.42 @ 15°C (NZ) R 0.40 @ 23°C (AU)

Acoustic performance
Composition is specifically designed to reduce and control reverberated noise and echo in building interiors

Product specifications

Fire ratings
Composition 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 4894 and FAR 4055

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

Impact resistance
ISO 7892:1988

Hard body impact
There is no surface damage or penetration to Composition when subjected to hard body impacts. When adhered to 10 mm plasterboard, the system can resist a 9 joule impact. This is equivalent to the impact of a 0.5 kg object dropped from a 2 m height.

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.

Soft body impact
There is no surface damage or penetration to Composition when subjected to soft body impacts. When adhered to 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm height.

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

Colour fastness to light
Composition is suitable for indoor use only.
Light fastness is dependent on use and exposure.
Composition has been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

Colour fastness to rubbing
ISO 105-X12:2016
Dry rating: 4-5 (Highest = 5)
Wet rating: 4-5 (Highest = 5)

Moisture absorption
Polyester fibre when exposed to an atmosphere of 50˚C at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture and will not rot or deteriorate in intended use situations.

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.
Refer to the Composition Care and Maintenance Guide for more information.

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.

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

Acoustic performance

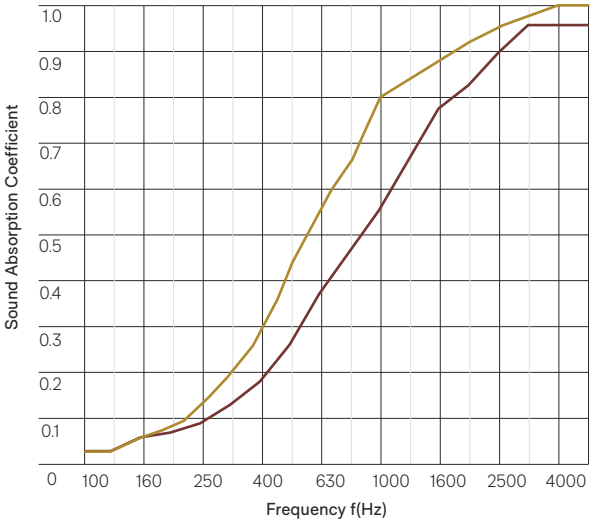
Composition is specifically designed to reduce and control reverberated noise and echo in building interiors.

Minimum Noise Reduction Coefficient

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
12 mm Composition	0.05	0.10	0.25	0.55	0.80	0.95	0.40
18 mm Composition	0.05	0.15	0.45	0.80	0.95	1.00	0.55

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.

Sound Absorption Coefficients according to ISO 354.
University of Auckland Testing Service
Composition 10 - 12 mm - Test No. T0814-2b, 18mm Test No. T2201-9



Light reflectance values by colour

Composition is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Acros	30	Lime	29
Atlantis	8	Muralla	7
Beehive	30	Myst	42
Blazing Red	8	Octane	5
Calypso	13	Opera	47
Canyon	14	Parthenon	28
Caspian	3	Petronas	1
Cavalier	10	Pinnacle	2
Chilli Red	5	Porcelain	22
Electric Blue	12	Sage	9
Empire	3	Sargazo	2
Falling Water	32	Savoye	44
Flatiron	23	Senado	45
Gherkin	5	Simba	18
Granny Smith	20	Spearmint	13
Highland	14	Stonewash	19
Ink	3	Terrace	18
Jade	22	Tree House	2
Koala	12	Vintage	6

- **New Zealand**
  702-718 Rosebank Road,
  Private Bag 19988
  Avondale 1746, Auckland
  T 0800 428 839
  T +64 9 828 9179
  www.autexacoustics.co.nz
- **Australia**
  285 Swan Street,
  Richmond, VIC 3121
  T 1800 678 160
  T +61 3 9450 6700
  www.autexacoustics.com.au
- **United Kingdom**
  Unit J4, Lowfields Way,
  Lowfields Business Park,
  Elland, West Yorkshire
  HX5 9DA
  T +44 0 142 241 8899
  www.autexacoustics.co.uk
- **United States**
  1630 Dan Kipper Drive,
  Riverside, CA 92507
  T +1 424 203 1813
  www.autexacoustics.com