



**Product  
overview**

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

**Specification**

(Wall) treatment shall be Autex Acoustics Composition® from non-woven needle-punched polyester containing no less than 60% recycled material as manufactured by Autex [www.autexglobal.com](http://www.autexglobal.com)

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.

Roll 0.4" - 0.5" (nom.) depth, color ( ), 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.

**Color options**

 Raspberry	 Calypso	 Wasabi	 Sapphire
 Brilliant Orange	 Blush	 Lime	 Stonewash
 Citrus	 Myst	 Jade	 Stately
 Clay	 Sanz	 Granny Smith	 Atlantis
 Simba	 Fawn	 Avocado	 Electric Blue
 Blazing Red	 Civic	 Spearmint	 Porcelain
 Vintage	 Silver	 Sage	 Ink
 Chilli Red	 Koala	 Azure	 Lightsout
 Theatre	 Bark	 Emerald	 Charcoal
 Phantom	 Cinder	 Octane	 Noir



## Product specifications

<b>Product name</b>	Composition®
<b>Composition</b>	100% polyester fibre (PET)
<b>Roll dimensions</b>	48" x 36'
<b>Tolerance</b>	(+0.2") x (+0.4")
<b>Thickness</b>	0.4" - 0.5"
<b>Weight</b>	5.5oz/ft <sup>2</sup>

### 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

0.4" - 0.5" R0.22 (@59°F)

### 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: <5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sub>2</sub>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:1.2015, as required by BCA Specification C110-4 FI 4894 and FAR 4055

#### BS EN 13501-1:2018

Classification: B-s1,d0  
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-C

#### ASTM E84 - 14

Class A, FS:5 - SD:25  
Report RJ3297

### VOC emissions

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product. VOC concentration: 0.009 mg/m<sup>3</sup> (7 days)

### Water vapor sorption

ASTM C1104 / C1104M-13a  
Test conditions: 49°C, 95%RH  
Water vapor 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 molds and mildew.

### Color 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)

### Color fastness to rubbing

ISO 105-X12:2016  
Dry rating: 4-5 (Highest = 5)  
Wet rating: 4-5 (Highest = 5)

### Moisture absorption

Polyester fiber 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.

Custom printed Composition requires the services of a specialist cleaning company. 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 fiber blending and lay-up, which is an inherent feature of this product.

### Environmental

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

Composition contains a minimum of 60% previously recycled polyester fiber (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

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

### Service

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



## Acoustic performance

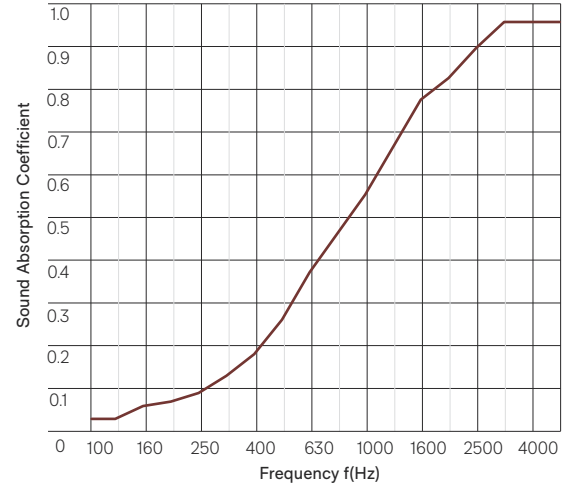
Composition is specifically designed to reduce and control reverberated noise and echo in building interiors

Minimum Noise Reduction Coefficient 0.40

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 0.4" - 0.5" Composition	0.05	0.10	0.25	0.55	0.80	0.95	0.40

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 centered 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 0.4" - 0.5" - Test No. T0814-2b.



## Light reflectance values by color

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

Civic	57	Koala	12
Citrus	49	Avocado	11
Myst	42	Sage	9
Sanz	36	Emerald	8
Wasabi	33	Sapphire	8
Lime	29	Atlantis	8
Azure	24	Blazing Red	8
Silver	23	Raspberry	8
Jade	22	Vintage	6
Porcelain	22	Chilli Red	5
Calypso	13	Cinder	5
Fawn	20	Bark	5
Clay	20	Octane	5
Granny Smith	20	Phantom	4
Stone wash	19	Theatre	3
Simba	18	Stately	3
Brilliant Orange	15	Charcoal	3
Spearmint	13	Lightsout	3
Calypso	13	Ink	3
Electric Blue	12	Noir	1



## Caring for the environment

Composition is manufactured using 100% polyester fiber and contains a minimum of 60% recycled fiber (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.

Composition 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.



Environment ISO 14001



Declare



- **Autex Industries Ltd**  
702-718 Rosebank Rd  
Private Bag 19988  
Avondale 1746, Auckland  
New Zealand  
Freephone 0800 428 839  
Phone +64 9 828 9179  
Fax +64 9 828 5810

- **Autex Australia Pty Ltd**  
166 Bamfield Road  
PO Box 5099  
West Heidelberg, Melbourne  
VIC 3081, Australia  
Freephone 1800 678 160  
Phone +61 3 9457 6700  
Fax +61 3 9457 1020

- **Autex Acoustics Ltd**  
Unit J4, Lowfields Way,  
Lowfields Business Park,  
Elland, West Yorkshire  
Hx5 9Da  
United Kingdom  
Phone +44 0 1422418899

- **Autex Acoustics LLC**  
1630 Dan Kipper Dr,  
Riverside, CA 92507  
United States of America  
Phone +1 424 203 1813

An ISO 9001, ISO 14001 and ISO 45001 certified company. The brand names and logos mentioned herein are registered or unregistered trademarks either owned or used under license by Autex Industries Limited or other members of the Autex Group. The contents of this document are protected by Copyright 2021 Autex Industries Ltd. All Rights Reserved. It is the user's responsibility to determine if the product and information presented in this document is suitable for the intended application by engaging a suitably qualified consultant. The information contained in this document is correct to the best of our knowledge at the date of its publication. To verify that this document is the most current publication please check our website or contact your Autex account manager.